284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q1629

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

Table Of Contents for Q1629

1) VOLATILES DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 8
5) Conformance/Non Conformance 9
6) QA Checklist 12
7) Chronicle 13
8) Hit Summary 14
9) QC Data Summary For VOCMS Group1 16
9.1) Deuterated Monitoring Compound Summary 17
9.2) MS/MSD Summary 19
9.3) LCS/LCSD Summary 27
9.4) Method Blank Summary 31
9.5) GS/MS Tune Summary 33
9.6) Internal Standard Area and RT Summary 36
10) Sample Data 40
10.1) TT174I1-20250320 41
10.2) TT162S1-20250320 53
10.3) TT188S1-20250320 64
10.4) RW09-MW01D1-20250320 74
10.5) RW09-MW01D2-20250320 84
10.6) RW09-MW01D3-20250320 94
10.7) TT150S1-20250320 103
10.8) FB03-20250321 114
10.9) TB 124
10.10) RW09-MW01S-20250320 134
11) Calibration Data Summary 143
11.1) Initial Calibration Data 144
11.1.1) VX022825 144
11.2) Continued Calibration Data 514
11.2.1) VX045431.D 514
11.2.2) VX045455.D 574
11.2.3) VX045457.D 634
11.2.4) VX045470.D 694
12) QC Sample Data 754

12.1) Tune Raw Data 755
12.2) Method Blank Data 758
12.3) LCS Data 776
12.4) MS Data 886
12.5) MSD Data 996
13) Manual Integration 1106
14) Analytical Runlogs 1110
15) Standard Prep Logs 1120
16) Shipping Document 1221
16.1) Chain Of Custody 1222
16.2) ROC 1223
16.3) Lab Certificate 1225
16.4) Internal COC 1226
17) Not Reviewed Data 1229

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Cover Page

Order ID : Q1629

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
Q1629-01	TT174I1-20250320
Q1629-02	TT162S1-20250320
Q1629-03	TT188S1-20250320
Q1629-04	TT188S1-20250320MS
Q1629-05	TT188S1-20250320MSD
Q1629-07	RW09-MW01D1-20250320
Q1629-08	RW09-MW01D2-20250320
Q1629-09	RW09-MW01D3-20250320
Q1629-10	TT150S1-20250320
Q1629-11	FB03-20250321
Q1629-12	TB
Q1629-14	RW09-MW01S-20250320
Q1629-15	RW09-MW01S-20250320MS
Q1629-16	RW09-MW01S-20250320MSD

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:14 am, Apr 03, 2025

Date: 4/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Chemtech Project # Q1629
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
14 Water samples were received on 03/21/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for TT188S1-20250320MSD [4-Bromofluorobenzene - 115%] and RW09-MW01S-20250320MSD [Toluene-d8 - 76%],Surrogate fail in only MSD but MS and Parent Sample is Passing For Surrogate Recoveries therefore no Corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1629-04MS} with File ID: VX045467.D recoveries met the requirements for all compounds except for Methyl Acetate[143%],due to matrix interference.

The MSD {Q1629-05MSD} with File ID: VX045468.D recoveries met the acceptable requirements except for 1,2-Dibromo-3-Chloropropane[129%], 1,2-Dichloroethane[130%], cis-1,3-Dichloropropene[126%] and t-1,3-Dichloropropene[129%],due to matrix interference.

The RPD for {Q1629-05MSD} with File ID: VX045468.D met criteria except for Bromomethane[26%], Carbon disulfide[42%], Chloroethane[23%], Chloromethane[30%], Cyclohexane[23%], Dichlorodifluoromethane[33%], Methyl

Acetate[33%], Methylcyclohexane[22%] and Vinyl chloride[25%],due to difference in results of MS and MSD.

The sample # TT188S1-20250320MS and TT188S1-20250320MSD are failing for Methyl Acetate, 1,2-Dichloroethane, t-1,3-Dichloropropene, cis-1,3-Dichloropropene, 1,2-Dibromo-3-Chloropropane and the original sample(TT188S1- 20250320) is reported with M flag for this compounds.

The Blank Spike for {VX0325WBS02} with File ID: VX045436.D met requirements for all samples except for Methyl Acetate[147%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VX0326WBS01} with File ID: VX045460.D met requirements for all samples except for Methyl Acetate[140%] failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration File ID VX045431.D met the requirements except for 1,1,2-Trichlorotrifluoroethane,2-Hexanone,cis-1,3-Dichloropropene,Dichlorodifluoromethane,Methylcyclohexane and t-1,3-Dichloropropene,are failing high but no positive hit in associate samples therefore no corrective action taken.

The Continuous Calibration File ID VX045457.D met the requirements except for Dichlorodifluoromethane,Methylcyclohexane and t-1,3-Dichloropropene,are failing high but no positive hit in associate samples therefore no corrective action taken.
The Tuning criteria met requirements.

E. Additional Comments:
The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 11:15 am, Apr 03, 2025

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1629 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration File ID VX045431.D met the requirements except for 1,1,2-Trichlorotrifluoroethane,2-Hexanone,cis-1,3-Dichloropropene,Dichlorodifluoromethane,Methylcyclohexane and t-1,3-Dichloropropene,are failing high but no positive hit in associate samples therefore no corrective action taken. The Continuous Calibration File ID VX045457.D met the requirements except for Dichlorodifluoromethane,Methylcyclohexane and t-1,3-Dichloropropene,are failing high but no positive hit in associate samples therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for TT188S1-20250320MSD [4-Bromofluorobenzene - 115%] and RW09-MW01S-20250320MSD [Toluene-d8 - 76%],Surrogate fail in only MSD -but MS and Parent Sample is Passing For Surrogate Recoveries therefore no Corrective action was taken.		✓	

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The MS {Q1629-04MS} with File ID: VX045467.D recoveries met the requirements for all compounds except for Methyl Acetate[143%],due to matrix interference.

The MSD {Q1629-05MSD} with File ID: VX045468.D recoveries met the acceptable requirements except for 1,2-Dibromo-3-Chloropropane[129%], 1,2-Dichloroethane[130%], cis-1,3-Dichloropropene[126%] and t-1,3-Dichloropropene[129%],due to matrix interference.

The sample # TT188S1-20250320MS and TT188S1-20250320MSD are failing for Methyl Acetate, 1,2-Dichloroethane, t-1,3-Dichloropropene, cis-1,3-Dichloropropene, 1,2-Dibromo-3-Chloropropane and the original sample(TT188S1- 20250320) is reported with M flag for this compounds.

The Blank Spike for {VX0325WBS02} with File ID: VX045436.D met requirements for all samples except for Methyl Acetate[147%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VX0326WBS01} with File ID: VX045460.D met requirements for all samples except for Methyl Acetate[140%] failing high but no positive hit in associate sample therefore no corrective action taken.

The RPD for {Q1629-05MSD} with File ID: VX045468.D met criteria except for Bromomethane[26%], Carbon disulfide[42%], Chloroethane[23%], Chloromethane[30%], Cyclohexane[23%], Dichlorodifluoromethane[33%], Methyl Acetate[33%], Methylcyclohexane[22%] and Vinyl chloride[25%],due to difference in results of MS and MSD.

9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓

Comments:

10.	Analysis Holding Time Met			✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:15 am, Apr 03, 2025

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1629

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: MOHAMMAD AHMED **Date:** 04/03/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q1629	**OrderDate:**	3/21/2025 1:55:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	I41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1629-01	**TT174I1-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-02	**TT162S1-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-03	**TT188S1-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/26/25	
Q1629-07	**RW09-MW01D1-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-08	**RW09-MW01D2-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-09	**RW09-MW01D3-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-10	**TT150S1-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-11	**FB03-20250321**	**Water**			**03/21/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-12	**TB**	**Water**			**03/21/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/25/25	
Q1629-14	**RW09-MW01S-20250320**	**Water**			**03/20/25**			**03/21/25**
			VOCMS Group1	8260-Low			03/26/25	

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**TT174I1-20250320**								
Q1629-01	TT174I1-20250320	Water	1,1-Dichloroethene	1.20		0.23	0.75	1.00	ug/L
Q1629-01	TT174I1-20250320	Water	Acetone	2.50	J	1.50	3.80	5.00	ug/L
Q1629-01	TT174I1-20250320	Water	Methyl tert-butyl Ether	0.39	J	0.16	0.50	1.00	ug/L
Q1629-01	TT174I1-20250320	Water	1,1-Dichloroethane	3.40		0.23	0.50	1.00	ug/L
Q1629-01	TT174I1-20250320	Water	Trichloroethene	2.00		0.090	0.75	1.00	ug/L
Q1629-01	TT174I1-20250320	Water	Tetrachloroethene	0.42	J	0.23	0.50	1.00	ug/L
			Total Voc :	9.91					
			Total Concentration:	9.91					
Client ID:	**TT162S1-20250320**								
Q1629-02	TT162S1-20250320	Water	Acetone	1.80	J	1.50	3.80	5.00	ug/L
Q1629-02	TT162S1-20250320	Water	Trichloroethene	11.9		0.090	0.75	1.00	ug/L
Q1629-02	TT162S1-20250320	Water	Tetrachloroethene	1.10		0.23	0.50	1.00	ug/L
			Total Voc :	14.8					
			Total Concentration:	14.8					
Client ID:	**TT188S1-20250320**								
Q1629-03	TT188S1-20250320	Water	Acetone	2.20	J	1.50	3.80	5.00	ug/L
Q1629-03	TT188S1-20250320	Water	Trichloroethene	5.30		0.090	0.75	1.00	ug/L
			Total Voc :	7.50					
			Total Concentration:	7.50					
Client ID:	**RW09-MW01D1-20250320**								
Q1629-07	RW09-MW01D1-2(	Water	Acetone	1.80	J	1.50	3.80	5.00	ug/L
			Total Voc :	1.80					
			Total Concentration:	1.80					
Client ID:	**RW09-MW01D2-20250320**								
Q1629-08	RW09-MW01D2-2(	Water	Acetone	2.00	J	1.50	3.80	5.00	ug/L
			Total Voc :	2.00					
			Total Concentration:	2.00					
Client ID:	**TT150S1-20250320**								
Q1629-10	TT150S1-20250320	Water	Acetone	2.50	J	1.50	3.80	5.00	ug/L
Q1629-10	TT150S1-20250320	Water	Trichloroethene	11.6		0.090	0.75	1.00	ug/L
Q1629-10	TT150S1-20250320	Water	Tetrachloroethene	1.10		0.23	0.50	1.00	ug/L
			Total Voc :	15.2					
			Total Concentration:	15.2					
Client ID:	**FB03-20250321**								
Q1629-11	FB03-20250321	Water	Acetone	4.00	J	1.50	3.80	5.00	ug/L
			Total Voc :	4.00					
			Total Concentration:	4.00					
Client ID:	**TB**								
Q1629-12	TB	Water	Acetone	1.60	J	1.50	3.80	5.00	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Voc :	1.60					
			Total Concentration:	1.60					

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1629-01	TT174I1-20250320	1,2-Dichloroethane-d4	50	54.0	108	81	118
		Dibromofluoromethane	50	48.8	98	80	119
		Toluene-d8	50	47.2	94	89	112
		4-Bromofluorobenzene	50	48.5	97	85	114
Q1629-02	TT162S1-20250320	1,2-Dichloroethane-d4	50	55.9	112	81	118
		Dibromofluoromethane	50	50.1	100	80	119
		Toluene-d8	50	47.5	95	89	112
		4-Bromofluorobenzene	50	51.9	104	85	114
Q1629-03	TT188S1-20250320	1,2-Dichloroethane-d4	50	53.5	107	81	118
		Dibromofluoromethane	50	49.4	99	80	119
		Toluene-d8	50	46.4	93	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
Q1629-04MS	TT188S1-20250320MS	1,2-Dichloroethane-d4	50	53.7	107	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	46.5	93	89	112
		4-Bromofluorobenzene	50	51.1	102	85	114
Q1629-05MSD	TT188S1-20250320MSD	1,2-Dichloroethane-d4	50	56.3	113	81	118
		Dibromofluoromethane	50	53.0	106	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	57.5	115 *	85	114
Q1629-07	RW09-MW01D1-20250320	1,2-Dichloroethane-d4	50	55.3	111	81	118
		Dibromofluoromethane	50	49.7	99	80	119
		Toluene-d8	50	47.9	96	89	112
		4-Bromofluorobenzene	50	50.7	101	85	114
Q1629-08	RW09-MW01D2-20250320	1,2-Dichloroethane-d4	50	55.1	110	81	118
		Dibromofluoromethane	50	50.6	101	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	50.5	101	85	114
Q1629-09	RW09-MW01D3-20250320	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	49.1	98	80	119
		Toluene-d8	50	48.0	96	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114
Q1629-10	TT150S1-20250320	1,2-Dichloroethane-d4	50	54.6	109	81	118
		Dibromofluoromethane	50	49.7	99	80	119
		Toluene-d8	50	47.3	95	89	112
		4-Bromofluorobenzene	50	50.9	102	85	114
Q1629-11	FB03-20250321	1,2-Dichloroethane-d4	50	55.4	111	81	118
		Dibromofluoromethane	50	49.5	99	80	119
		Toluene-d8	50	47.9	96	89	112
		4-Bromofluorobenzene	50	49.6	99	85	114
Q1629-12	TB	1,2-Dichloroethane-d4	50	53.0	106	81	118
		Dibromofluoromethane	50	49.1	98	80	119
		Toluene-d8	50	47.3	95	89	112
		4-Bromofluorobenzene	50	50.6	101	85	114
Q1629-14	RW09-MW01S-20250320	1,2-Dichloroethane-d4	50	50.9	102	81	118
		Dibromofluoromethane	50	48.4	97	80	119
		Toluene-d8	50	47.1	94	89	112
		4-Bromofluorobenzene	50	49.3	99	85	114
Q1629-15MS	RW09-MW01S-20250320MS	1,2-Dichloroethane-d4	50	54.0	108	81	118
		Dibromofluoromethane	50	51.2	102	80	119

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1629-15MS	RW09-MW01S-20250320MS	Toluene-d8	50	47.4	95		89	112
		4-Bromofluorobenzene	50	53.5	107		85	114
Q1629-16MSD	RW09-MW01S-20250320MSD	1,2-Dichloroethane-d4	50	41.9	84		81	118
		Dibromofluoromethane	50	40.1	80		80	119
		Toluene-d8	50	38.1	76	*	89	112
		4-Bromofluorobenzene	50	42.5	85		85	114
VX0325WBL01	VX0325WBL01	1,2-Dichloroethane-d4	50	58.3	117		81	118
		Dibromofluoromethane	50	54.2	108		80	119
		Toluene-d8	50	51.0	102		89	112
		4-Bromofluorobenzene	50	54.8	110		85	114
VX0325WBS02	VX0325WBS02	1,2-Dichloroethane-d4	50	56.6	113		81	118
		Dibromofluoromethane	50	53.4	107		80	119
		Toluene-d8	50	50.2	100		89	112
		4-Bromofluorobenzene	50	54.3	109		85	114
VX0326WBL01	VX0326WBL01	1,2-Dichloroethane-d4	50	53.2	106		81	118
		Dibromofluoromethane	50	48.1	96		80	119
		Toluene-d8	50	46.4	93		89	112
		4-Bromofluorobenzene	50	47.1	94		85	114
VX0326WBS01	VX0326WBS01	1,2-Dichloroethane-d4	50	53.8	108		81	118
		Dibromofluoromethane	50	51.0	102		80	119
		Toluene-d8	50	48.3	97		89	112
		4-Bromofluorobenzene	50	52.8	106		85	114

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1629-15MS		**Client Sample ID :**	RW09-MW01S-20250320MS					**Datafile :**	VX045462.D		
Dichlorodifluoromethane	50	0	61.2	ug/L	122				32	152	
Chloromethane	50	0	50.8	ug/L	102				50	139	
Vinyl chloride	50	0	48.8	ug/L	98				58	137	
Bromomethane	50	0	54.3	ug/L	109				53	141	
Chloroethane	50	0	54.0	ug/L	108				60	138	
Trichlorofluoromethane	50	0	53.8	ug/L	108				65	141	
1,1,2-Trichlorotrifluoroethane	50	0	59.0	ug/L	118				70	136	
1,1-Dichloroethene	50	0	52.8	ug/L	106				71	131	
Acetone	250	0	260	ug/L	104				39	160	
Carbon disulfide	50	0	48.6	ug/L	97				64	133	
Methyl tert-butyl Ether	50	0	51.9	ug/L	104				71	124	
Methyl Acetate	50	0	48.3	ug/L	97				56	136	
Methylene Chloride	50	0	50.4	ug/L	101				74	124	
trans-1,2-Dichloroethene	50	0	52.9	ug/L	106				75	124	
1,1-Dichloroethane	50	0	52.3	ug/L	105				77	125	
Cyclohexane	50	0	53.6	ug/L	107				71	130	
2-Butanone	250	0	270	ug/L	108				56	143	
Carbon Tetrachloride	50	0	54.9	ug/L	110				72	136	
cis-1,2-Dichloroethene	50	0	51.1	ug/L	102				78	123	
Bromochloromethane	50	0	49.7	ug/L	99				78	123	
Chloroform	50	0	53.9	ug/L	108				79	124	
1,1,1-Trichloroethane	50	0	56.0	ug/L	112				74	131	
Methylcyclohexane	50	0	57.5	ug/L	115				72	132	
Benzene	50	0	51.3	ug/L	103				79	120	
1,2-Dichloroethane	50	0	57.6	ug/L	115				73	128	
Trichloroethene	50	0	49.6	ug/L	99				79	123	
1,2-Dichloropropane	50	0	50.6	ug/L	101				78	122	
Bromodichloromethane	50	0	53.9	ug/L	108				79	125	
4-Methyl-2-Pentanone	250	0	280	ug/L	112				67	130	
Toluene	50	0	52.9	ug/L	106				80	121	
t-1,3-Dichloropropene	50	0	57.5	ug/L	115				73	127	
cis-1,3-Dichloropropene	50	0	55.7	ug/L	111				75	124	
1,1,2-Trichloroethane	50	0	51.9	ug/L	104				80	119	
2-Hexanone	250	0	280	ug/L	112				57	139	
Dibromochloromethane	50	0	54.4	ug/L	109				74	126	
1,2-Dibromoethane	50	0	53.2	ug/L	106				77	121	
Tetrachloroethene	50	0	53.2	ug/L	106				74	129	
Chlorobenzene	50	0	52.9	ug/L	106				82	118	
Ethyl Benzene	50	0	54.9	ug/L	110				79	121	
m/p-Xylenes	100	0	110	ug/L	110				80	121	
o-Xylene	50	0	54.1	ug/L	108				78	122	
Styrene	50	0	56.1	ug/L	112				78	123	
Bromoform	50	0	54.6	ug/L	109				66	130	
Isopropylbenzene	50	0	55.1	ug/L	110				72	131	
1,1,2,2-Tetrachloroethane	50	0	50.8	ug/L	102				71	121	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	52.0	ug/L	104				80	119	
1,4-Dichlorobenzene	50	0	51.2	ug/L	102				79	118	
1,2-Dichlorobenzene	50	0	52.2	ug/L	104				80	119	
1,2-Dibromo-3-Chloropropane	50	0	58.9	ug/L	118				62	128	
1,2,4-Trichlorobenzene	50	0	51.7	ug/L	103				69	130	
1,2,3-Trichlorobenzene	50	0	51.3	ug/L	103				69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1629-16MSD	**Client Sample ID :** RW09-MW01S-20250320MSD							**Datafile :** VX045463.D			
Dichlorodifluoromethane	50	0	61.4	ug/L	123		0		32	152	20
Chloromethane	50	0	48.8	ug/L	98		4		50	139	20
Vinyl chloride	50	0	48.1	ug/L	96		1		58	137	20
Bromomethane	50	0	55.4	ug/L	111		2		53	141	20
Chloroethane	50	0	56.6	ug/L	113		5		60	138	20
Trichlorofluoromethane	50	0	53.1	ug/L	106		1		65	141	20
1,1,2-Trichlorotrifluoroethane	50	0	58.3	ug/L	117		1		70	136	20
1,1-Dichloroethene	50	0	52.9	ug/L	106		0		71	131	20
Acetone	250	0	260	ug/L	104		0		39	160	20
Carbon disulfide	50	0	50.0	ug/L	100		3		64	133	20
Methyl tert-butyl Ether	50	0	53.7	ug/L	107		3		71	124	20
Methyl Acetate	50	0	49.5	ug/L	99		2		56	136	20
Methylene Chloride	50	0	50.6	ug/L	101		0		74	124	20
trans-1,2-Dichloroethene	50	0	53.1	ug/L	106		0		75	124	20
1,1-Dichloroethane	50	0	52.7	ug/L	105		1		77	125	20
Cyclohexane	50	0	54.9	ug/L	110		2		71	130	20
2-Butanone	250	0	270	ug/L	108		0		56	143	20
Carbon Tetrachloride	50	0	58.7	ug/L	117		7		72	136	20
cis-1,2-Dichloroethene	50	0	52.9	ug/L	106		3		78	123	20
Bromochloromethane	50	0	48.4	ug/L	97		3		78	123	20
Chloroform	50	0	55.1	ug/L	110		2		79	124	20
1,1,1-Trichloroethane	50	0	57.6	ug/L	115		3		74	131	20
Methylcyclohexane	50	0	60.0	ug/L	120		4		72	132	20
Benzene	50	0	53.4	ug/L	107		4		79	120	20
1,2-Dichloroethane	50	0	60.7	ug/L	121		5		73	128	20
Trichloroethene	50	0	54.0	ug/L	108		8		79	123	20
1,2-Dichloropropane	50	0	54.1	ug/L	108		7		78	122	20
Bromodichloromethane	50	0	57.6	ug/L	115		7		79	125	20
4-Methyl-2-Pentanone	250	0	290	ug/L	116		4		67	130	20
Toluene	50	0	55.7	ug/L	111		5		80	121	20
t-1,3-Dichloropropene	50	0	61.9	ug/L	124		7		73	127	20
cis-1,3-Dichloropropene	50	0	59.3	ug/L	119		6		75	124	20
1,1,2-Trichloroethane	50	0	54.5	ug/L	109		5		80	119	20
2-Hexanone	250	0	300	ug/L	120		7		57	139	20
Dibromochloromethane	50	0	58.5	ug/L	117		7		74	126	20
1,2-Dibromoethane	50	0	56.7	ug/L	113		6		77	121	20
Tetrachloroethene	50	0	53.5	ug/L	107		1		74	129	20
Chlorobenzene	50	0	54.3	ug/L	109		3		82	118	20
Ethyl Benzene	50	0	56.4	ug/L	113		3		79	121	20
m/p-Xylenes	100	0	110	ug/L	110		0		80	121	20
o-Xylene	50	0	54.6	ug/L	109		1		78	122	20
Styrene	50	0	57.2	ug/L	114		2		78	123	20
Bromoform	50	0	56.6	ug/L	113		4		66	130	20
Isopropylbenzene	50	0	56.7	ug/L	113		3		72	131	20
1,1,2,2-Tetrachloroethane	50	0	53.3	ug/L	107		5		71	121	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	53.6	ug/L	107		3		80	119	20
1,4-Dichlorobenzene	50	0	53.5	ug/L	107		4		79	118	20
1,2-Dichlorobenzene	50	0	53.2	ug/L	106		2		80	119	20
1,2-Dibromo-3-Chloropropane	50	0	60.7	ug/L	121		3		62	128	20
1,2,4-Trichlorobenzene	50	0	53.9	ug/L	108		4		69	130	20
1,2,3-Trichlorobenzene	50	0	52.6	ug/L	105		3		69	129	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1629-04MS		**Client Sample ID : TT188S1-20250320MS**						**Datafile :** VX045467.D			
Dichlorodifluoromethane	50	0	46.4	ug/L	93				32	152	
Chloromethane	50	0	40.7	ug/L	81				50	139	
Vinyl chloride	50	0	40.6	ug/L	81				58	137	
Bromomethane	50	0	46.0	ug/L	92				53	141	
Chloroethane	50	0	43.2	ug/L	86				60	138	
Trichlorofluoromethane	50	0	46.8	ug/L	94				65	141	
1,1,2-Trichlorotrifluoroethane	50	0	54.8	ug/L	110				70	136	
1,1-Dichloroethene	50	0	47.9	ug/L	96				71	131	
Acetone	250	2.20	280	ug/L	111				39	160	
Carbon disulfide	50	0	34.3	ug/L	69				64	133	
Methyl tert-butyl Ether	50	0	54.1	ug/L	108				71	124	
Methyl Acetate	50	0	71.5	ug/L	143	*			56	136	
Methylene Chloride	50	0	49.1	ug/L	98				74	124	
trans-1,2-Dichloroethene	50	0	47.9	ug/L	96				75	124	
1,1-Dichloroethane	50	0	52.7	ug/L	105				77	125	
Cyclohexane	50	0	46.2	ug/L	92				71	130	
2-Butanone	250	0	290	ug/L	116				56	143	
Carbon Tetrachloride	50	0	53.1	ug/L	106				72	136	
cis-1,2-Dichloroethene	50	0	50.5	ug/L	101				78	123	
Bromochloromethane	50	0	53.5	ug/L	107				78	123	
Chloroform	50	0	55.2	ug/L	110				79	124	
1,1,1-Trichloroethane	50	0	55.3	ug/L	111				74	131	
Methylcyclohexane	50	0	48.9	ug/L	98				72	132	
Benzene	50	0	49.7	ug/L	99				79	120	
1,2-Dichloroethane	50	0	58.4	ug/L	117				73	128	
Trichloroethene	50	5.30	53.5	ug/L	96				79	123	
1,2-Dichloropropane	50	0	51.4	ug/L	103				78	122	
Bromodichloromethane	50	0	56.3	ug/L	113				79	125	
4-Methyl-2-Pentanone	250	0	290	ug/L	116				67	130	
Toluene	50	0	51.6	ug/L	103				80	121	
t-1,3-Dichloropropene	50	0	56.5	ug/L	113				73	127	
cis-1,3-Dichloropropene	50	0	55.2	ug/L	110				75	124	
1,1,2-Trichloroethane	50	0	53.5	ug/L	107				80	119	
2-Hexanone	250	0	300	ug/L	120				57	139	
Dibromochloromethane	50	0	56.2	ug/L	112				74	126	
1,2-Dibromoethane	50	0	53.5	ug/L	107				77	121	
Tetrachloroethene	50	0	49.3	ug/L	99				74	129	
Chlorobenzene	50	0	51.8	ug/L	104				82	118	
Ethyl Benzene	50	0	53.2	ug/L	106				79	121	
m/p-Xylenes	100	0	100	ug/L	100				80	121	
o-Xylene	50	0	51.7	ug/L	103				78	122	
Styrene	50	0	54.0	ug/L	108				78	123	
Bromoform	50	0	54.9	ug/L	110				66	130	
Isopropylbenzene	50	0	51.8	ug/L	104				72	131	
1,1,2,2-Tetrachloroethane	50	0	52.0	ug/L	104				71	121	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	50.4	ug/L	101				80	119	
1,4-Dichlorobenzene	50	0	50.0	ug/L	100				79	118	
1,2-Dichlorobenzene	50	0	52.3	ug/L	105				80	119	
1,2-Dibromo-3-Chloropropane	50	0	60.7	ug/L	121				62	128	
1,2,4-Trichlorobenzene	50	0	51.8	ug/L	104				69	130	
1,2,3-Trichlorobenzene	50	0	51.1	ug/L	102				69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1629-05MSD		**Client Sample ID : TT188S1-20250320MSD**						**Datafile :**	VX045468.D		
Dichlorodifluoromethane	50	0	65.0	ug/L	130		33	*	32	152	20
Chloromethane	50	0	55.3	ug/L	111		30	*	50	139	20
Vinyl chloride	50	0	52.1	ug/L	104		25	*	58	137	20
Bromomethane	50	0	59.9	ug/L	120		26	*	53	141	20
Chloroethane	50	0	54.7	ug/L	109		23	*	60	138	20
Trichlorofluoromethane	50	0	57.1	ug/L	114		20		65	141	20
1,1,2-Trichlorotrifluoroethane	50	0	63.4	ug/L	127		15		70	136	20
1,1-Dichloroethene	50	0	57.1	ug/L	114		18		71	131	20
Acetone	250	2.20	300	ug/L	119		7		39	160	20
Carbon disulfide	50	0	52.6	ug/L	105		42	*	64	133	20
Methyl tert-butyl Ether	50	0	58.3	ug/L	117		7		71	124	20
Methyl Acetate	50	0	51.2	ug/L	102		33	*	56	136	20
Methylene Chloride	50	0	55.0	ug/L	110		11		74	124	20
trans-1,2-Dichloroethene	50	0	57.5	ug/L	115		18		75	124	20
1,1-Dichloroethane	50	0	57.7	ug/L	115		9		77	125	20
Cyclohexane	50	0	58.0	ug/L	116		23	*	71	130	20
2-Butanone	250	0	310	ug/L	124		7		56	143	20
Carbon Tetrachloride	50	0	61.2	ug/L	122		14		72	136	20
cis-1,2-Dichloroethene	50	0	56.9	ug/L	114		12		78	123	20
Bromochloromethane	50	0	49.6	ug/L	99		8		78	123	20
Chloroform	50	0	59.6	ug/L	119		8		79	124	20
1,1,1-Trichloroethane	50	0	62.0	ug/L	124		11		74	131	20
Methylcyclohexane	50	0	61.0	ug/L	122		22	*	72	132	20
Benzene	50	0	56.5	ug/L	113		13		79	120	20
1,2-Dichloroethane	50	0	64.8	ug/L	130	*	10		73	128	20
Trichloroethene	50	5.30	60.4	ug/L	110		14		79	123	20
1,2-Dichloropropane	50	0	56.8	ug/L	114		10		78	122	20
Bromodichloromethane	50	0	61.0	ug/L	122		8		79	125	20
4-Methyl-2-Pentanone	250	0	320	ug/L	128		10		67	130	20
Toluene	50	0	59.1	ug/L	118		14		80	121	20
t-1,3-Dichloropropene	50	0	64.7	ug/L	129	*	14		73	127	20
cis-1,3-Dichloropropene	50	0	63.1	ug/L	126	*	13		75	124	20
1,1,2-Trichloroethane	50	0	57.8	ug/L	116		8		80	119	20
2-Hexanone	250	0	330	ug/L	132		10		57	139	20
Dibromochloromethane	50	0	61.7	ug/L	123		9		74	126	20
1,2-Dibromoethane	50	0	59.5	ug/L	119		11		77	121	20
Tetrachloroethene	50	0	56.7	ug/L	113		14		74	129	20
Chlorobenzene	50	0	58.3	ug/L	117		12		82	118	20
Ethyl Benzene	50	0	59.8	ug/L	120		12		79	121	20
m/p-Xylenes	100	0	120	ug/L	120		18		80	121	20
o-Xylene	50	0	58.7	ug/L	117		13		78	122	20
Styrene	50	0	60.9	ug/L	122		12		78	123	20
Bromoform	50	0	60.5	ug/L	121		10		66	130	20
Isopropylbenzene	50	0	58.0	ug/L	116		11		72	131	20
1,1,2,2-Tetrachloroethane	50	0	55.2	ug/L	110		6		71	121	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	56.0	ug/L	112		11		80	119	20
1,4-Dichlorobenzene	50	0	54.8	ug/L	110		9		79	118	20
1,2-Dichlorobenzene	50	0	56.8	ug/L	114		8		80	119	20
1,2-Dibromo-3-Chloropropane	50	0	64.5	ug/L	129	*	6		62	128	20
1,2,4-Trichlorobenzene	50	0	55.8	ug/L	112		7		69	130	20
1,2,3-Trichlorobenzene	50	0	54.6	ug/L	109		7		69	129	20

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045436.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0325WBS02	Dichlorodifluoromethane	20	19.5	ug/L	98			32	152	
	Chloromethane	20	16.0	ug/L	80			50	139	
	Vinyl chloride	20	16.0	ug/L	80			58	137	
	Bromomethane	20	19.6	ug/L	98			53	141	
	Chloroethane	20	19.7	ug/L	99			60	138	
	Trichlorofluoromethane	20	20.0	ug/L	100			65	141	
	1,1,2-Trichlorotrifluoroethane	20	22.6	ug/L	113			70	136	
	1,1-Dichloroethene	20	19.6	ug/L	98			71	131	
	Acetone	100	110	ug/L	110			39	160	
	Carbon disulfide	20	14.0	ug/L	70			64	133	
	Methyl tert-butyl Ether	20	21.5	ug/L	108			71	124	
	Methyl Acetate	20	29.4	ug/L	147		*	56	136	
	Methylene Chloride	20	20.2	ug/L	101			74	124	
	trans-1,2-Dichloroethene	20	20.1	ug/L	101			75	124	
	1,1-Dichloroethane	20	21.5	ug/L	108			77	125	
	Cyclohexane	20	19.7	ug/L	99			71	130	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	21.8	ug/L	109			72	136	
	cis-1,2-Dichloroethene	20	20.8	ug/L	104			78	123	
	Bromochloromethane	20	24.3	ug/L	121			78	123	
	Chloroform	20	22.3	ug/L	112			79	124	
	1,1,1-Trichloroethane	20	22.3	ug/L	112			74	131	
	Methylcyclohexane	20	20.5	ug/L	103			72	132	
	Benzene	20	20.5	ug/L	103			79	120	
	1,2-Dichloroethane	20	23.9	ug/L	119			73	128	
	Trichloroethene	20	20.5	ug/L	103			79	123	
	1,2-Dichloropropane	20	21.1	ug/L	106			78	122	
	Bromodichloromethane	20	22.7	ug/L	114			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	21.4	ug/L	107			80	121	
	t-1,3-Dichloropropene	20	22.1	ug/L	111			73	127	
	cis-1,3-Dichloropropene	20	22.4	ug/L	112			75	124	
	1,1,2-Trichloroethane	20	22.3	ug/L	112			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	22.0	ug/L	110			74	126	
	1,2-Dibromoethane	20	21.7	ug/L	109			77	121	
	Tetrachloroethene	20	21.6	ug/L	108			74	129	
	Chlorobenzene	20	21.4	ug/L	107			82	118	
	Ethyl Benzene	20	21.6	ug/L	108			79	121	
	m/p-Xylenes	40	43.1	ug/L	108			80	121	
	o-Xylene	20	21.4	ug/L	107			78	122	
	Styrene	20	21.7	ug/L	109			78	123	
	Bromoform	20	21.4	ug/L	107			66	130	
	Isopropylbenzene	20	22.5	ug/L	113			72	131	
	1,1,2,2-Tetrachloroethane	20	21.4	ug/L	107			71	121	
	1,3-Dichlorobenzene	20	21.0	ug/L	105			80	119	
	1,4-Dichlorobenzene	20	20.5	ug/L	103			79	118	
	1,2-Dichlorobenzene	20	21.1	ug/L	106			80	119	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045436.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0325WBS02	1,2-Dibromo-3-Chloropropane	20	22.1	ug/L	111			62	128	
	1,2,4-Trichlorobenzene	20	20.1	ug/L	101			69	130	
	1,2,3-Trichlorobenzene	20	20.3	ug/L	102			69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045460.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0326WBS01	Dichlorodifluoromethane	20	18.0	ug/L	90			32	152	
	Chloromethane	20	15.2	ug/L	76			50	139	
	Vinyl chloride	20	15.3	ug/L	77			58	137	
	Bromomethane	20	18.6	ug/L	93			53	141	
	Chloroethane	20	20.0	ug/L	100			60	138	
	Trichlorofluoromethane	20	18.3	ug/L	92			65	141	
	1,1,2-Trichlorotrifluoroethane	20	21.6	ug/L	108			70	136	
	1,1-Dichloroethene	20	17.8	ug/L	89			71	131	
	Acetone	100	100	ug/L	100			39	160	
	Carbon disulfide	20	12.8	ug/L	64			64	133	
	Methyl tert-butyl Ether	20	20.3	ug/L	102			71	124	
	Methyl Acetate	20	27.9	ug/L	140		*	56	136	
	Methylene Chloride	20	19.0	ug/L	95			74	124	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	124	
	1,1-Dichloroethane	20	20.1	ug/L	101			77	125	
	Cyclohexane	20	18.2	ug/L	91			71	130	
	2-Butanone	100	100	ug/L	100			56	143	
	Carbon Tetrachloride	20	20.3	ug/L	102			72	136	
	cis-1,2-Dichloroethene	20	19.4	ug/L	97			78	123	
	Bromochloromethane	20	21.0	ug/L	105			78	123	
	Chloroform	20	21.1	ug/L	106			79	124	
	1,1,1-Trichloroethane	20	21.0	ug/L	105			74	131	
	Methylcyclohexane	20	18.5	ug/L	93			72	132	
	Benzene	20	19.1	ug/L	96			79	120	
	1,2-Dichloroethane	20	22.3	ug/L	112			73	128	
	Trichloroethene	20	18.9	ug/L	95			79	123	
	1,2-Dichloropropane	20	19.8	ug/L	99			78	122	
	Bromodichloromethane	20	21.5	ug/L	108			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	19.7	ug/L	99			80	121	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			73	127	
	cis-1,3-Dichloropropene	20	20.3	ug/L	102			75	124	
	1,1,2-Trichloroethane	20	20.7	ug/L	104			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	21.1	ug/L	106			74	126	
	1,2-Dibromoethane	20	20.4	ug/L	102			77	121	
	Tetrachloroethene	20	20.4	ug/L	102			74	129	
	Chlorobenzene	20	19.8	ug/L	99			82	118	
	Ethyl Benzene	20	20.4	ug/L	102			79	121	
	m/p-Xylenes	40	40.8	ug/L	102			80	121	
	o-Xylene	20	19.8	ug/L	99			78	122	
	Styrene	20	20.5	ug/L	103			78	123	
	Bromoform	20	20.6	ug/L	103			66	130	
	Isopropylbenzene	20	20.9	ug/L	104			72	131	
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102			71	121	
	1,3-Dichlorobenzene	20	19.4	ug/L	97			80	119	
	1,4-Dichlorobenzene	20	19.2	ug/L	96			79	118	
	1,2-Dichlorobenzene	20	19.9	ug/L	100			80	119	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1629

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045460.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0326WBS01	1,2-Dibromo-3-Chloropropane	20	21.2	ug/L	106			62	128	
	1,2,4-Trichlorobenzene	20	18.9	ug/L	95			69	130	
	1,2,3-Trichlorobenzene	20	18.7	ug/L	94			69	129	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0325WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045433.D Lab Sample ID: VX0325WBL01

Date Analyzed: 03/25/2025 Time Analyzed: 12:22

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0325WBS02	VX0325WBS02	VX045436.D	03/25/2025
TB	Q1629-12	VX045443.D	03/25/2025
FB03-20250321	Q1629-11	VX045444.D	03/25/2025
TT174I1-20250320	Q1629-01	VX045445.D	03/25/2025
TT162S1-20250320	Q1629-02	VX045446.D	03/25/2025
RW09-MW01D1-20250320	Q1629-07	VX045447.D	03/25/2025
RW09-MW01D2-20250320	Q1629-08	VX045448.D	03/25/2025
RW09-MW01D3-20250320	Q1629-09	VX045449.D	03/25/2025
TT150S1-20250320	Q1629-10	VX045450.D	03/25/2025

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0326WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045459.D Lab Sample ID: VX0326WBL01

Date Analyzed: 03/26/2025 Time Analyzed: 10:54

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0326WBS01	VX0326WBS01	VX045460.D	03/26/2025
RW09-MW01S-20250320	Q1629-14	VX045461.D	03/26/2025
RW09-MW01S-20250320MS	Q1629-15MS	VX045462.D	03/26/2025
RW09-MW01S-20250320MSD	Q1629-16MSD	VX045463.D	03/26/2025
TT188S1-20250320	Q1629-03	VX045466.D	03/26/2025
TT188S1-20250320MS	Q1629-04MS	VX045467.D	03/26/2025
TT188S1-20250320MSD	Q1629-05MSD	VX045468.D	03/26/2025

COMMENTS:

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045067.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_X BFB Injection Time: 01:03

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX045068.D	02/28/2025	01:27
VSTDICC005	VSTDICC005	VX045069.D	02/28/2025	02:13
VSTDICC020	VSTDICC020	VX045070.D	02/28/2025	02:37
VSTDICCC050	VSTDICCC050	VX045071.D	02/28/2025	03:00
VSTDICC100	VSTDICC100	VX045072.D	02/28/2025	03:23
VSTDICC150	VSTDICC150	VX045073.D	02/28/2025	03:47

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045430.D BFB Injection Date: 03/25/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.4
175	5.0 - 9.0% of mass 174	5.4 (7.5) 1
176	95.0 - 101.0% of mass 174	69.5 (96.1) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045431.D	03/25/2025	11:31
VX0325WBL01	VX0325WBL01	VX045433.D	03/25/2025	12:22
VX0325WBS02	VX0325WBS02	VX045436.D	03/25/2025	13:35
TB	Q1629-12	VX045443.D	03/25/2025	16:22
FB03-20250321	Q1629-11	VX045444.D	03/25/2025	16:46
TT174I1-20250320	Q1629-01	VX045445.D	03/25/2025	17:09
TT162S1-20250320	Q1629-02	VX045446.D	03/25/2025	17:32
RW09-MW01D1-20250320	Q1629-07	VX045447.D	03/25/2025	17:55
RW09-MW01D2-20250320	Q1629-08	VX045448.D	03/25/2025	18:18
RW09-MW01D3-20250320	Q1629-09	VX045449.D	03/25/2025	18:41
TT150S1-20250320	Q1629-10	VX045450.D	03/25/2025	19:05
VSTDCCC050EC	VSTDCCC050	VX045455.D	03/25/2025	21:00

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045456.D BFB Injection Date: 03/26/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:33

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	5.4 (7.6) 1
176	95.0 - 101.0% of mass 174	68.7 (97.1) 1
177	5.0 - 9.0% of mass 176	4.9 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045457.D	03/26/2025	10:03
VX0326WBL01	VX0326WBL01	VX045459.D	03/26/2025	10:54
VX0326WBS01	VX0326WBS01	VX045460.D	03/26/2025	11:18
RW09-MW01S-20250320	Q1629-14	VX045461.D	03/26/2025	11:46
RW09-MW01S-20250320MS	Q1629-15MS	VX045462.D	03/26/2025	12:09
RW09-MW01S-20250320MSD	Q1629-16MSD	VX045463.D	03/26/2025	12:33
TT188S1-20250320	Q1629-03	VX045466.D	03/26/2025	13:43
TT188S1-20250320MS	Q1629-04MS	VX045467.D	03/26/2025	14:06
TT188S1-20250320MSD	Q1629-05MSD	VX045468.D	03/26/2025	14:29
VSTDCCC050EC	VSTDCCC050	VX045470.D	03/26/2025	15:35

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045431.D Date Analyzed: 03/25/2025

Instrument ID: MSVOA_X Time Analyzed: 11:31

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	83260	5.54	144945	6.76	129576	10.05
UPPER LIMIT	166520	6.044	289890	7.257	259152	10.549
LOWER LIMIT	41630	5.044	72472.5	6.257	64788	9.549
EPA SAMPLE NO.						
TT174I1-20250320	70075	5.55	137552	6.76	122364	10.05
TT162S1-20250320	68003	5.54	133718	6.76	122480	10.05
RW09-MW01D1-20250320	74720	5.54	146822	6.76	135722	10.05
RW09-MW01D2-20250320	76218	5.55	148282	6.76	136799	10.05
RW09-MW01D3-20250320	71670	5.54	137481	6.76	129073	10.05
TT150S1-20250320	71974	5.55	142479	6.76	130670	10.05
FB03-20250321	71073	5.54	141090	6.76	129742	10.05
TB	70921	5.55	138131	6.76	128366	10.06
VX0325WBL01	71237	5.55	137150	6.76	123936	10.05
VX0325WBS02	88260	5.54	159282	6.76	137098	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045431.D Date Analyzed: 03/25/2025

Instrument ID: MSVOA_X Time Analyzed: 11:31

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	63016	12.018				
UPPER LIMIT	126032	12.518				
LOWER LIMIT	31508	11.518				
EPA SAMPLE NO.						
TT174I1-20250320	47236	12.02				
TT162S1-20250320	50952	12.02				
RW09-MW01D1-20250320	52479	12.02				
RW09-MW01D2-20250320	55234	12.02				
RW09-MW01D3-20250320	54362	12.02				
TT150S1-20250320	55180	12.02				
FB03-20250321	49151	12.02				
TB	51682	12.02				
VX0325WBL01	50683	12.02				
VX0325WBS02	60910	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045457.D Date Analyzed: 03/26/2025

Instrument ID: MSVOA_X Time Analyzed: 10:03

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	91964	5.54	157025	6.75	138010	10.05
UPPER LIMIT	183928	6.038	314050	7.251	276020	10.549
LOWER LIMIT	45982	5.038	78512.5	6.251	69005	9.549
EPA SAMPLE NO.						
TT188S1-20250320	68093	5.54	134396	6.76	120469	10.06
TT188S1-20250320MS	79755	5.54	146350	6.76	128351	10.06
TT188S1-20250320MSD	78228	5.55	141777	6.76	126420	10.05
RW09-MW01S-20250320	72703	5.54	139868	6.76	129727	10.05
RW09-MW01S-20250320MS	81846	5.54	149200	6.76	128995	10.05
RW09-MW01S-20250320MSD	81226	5.55	143287	6.76	127464	10.06
VX0326WBL01	65792	5.54	128574	6.76	116243	10.06
VX0326WBS01	86104	5.55	155857	6.76	136930	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG NO.: Q1629

Lab File ID: VX045457.D Date Analyzed: 03/26/2025

Instrument ID: MSVOA_X Time Analyzed: 10:03

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	63053	12.018				
UPPER LIMIT	126106	12.518				
LOWER LIMIT	31526.5	11.518				
EPA SAMPLE NO.						
TT188S1-20250320	47673	12.02				
TT188S1-20250320MS	58769	12.02				
TT188S1-20250320MSD	58644	12.02				
RW09-MW01S-20250320	52360	12.02				
RW09-MW01S-20250320MS	58223	12.02				
RW09-MW01S-20250320MSD	56894	12.02				
VX0326WBL01	46967	12.02				
VX0326WBS01	61262	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT174I1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045445.D	1		03/25/25 17:09	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.20		0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.50	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.39	J	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	3.40		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	2.00		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT174I1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045445.D	1		03/25/25 17:09	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.42	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.0		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	47.2		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	70100	5.55				
540-36-3	1,4-Difluorobenzene	138000	6.757				
3114-55-4	Chlorobenzene-d5	122000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	47200	12.024				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT174I1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045445.D	1		03/25/25 17:09	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045445.D
Acq On : 25 Mar 2025 17:09
Operator : JC/MD
Sample : Q1629-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Quant Time: Mar 26 01:41:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

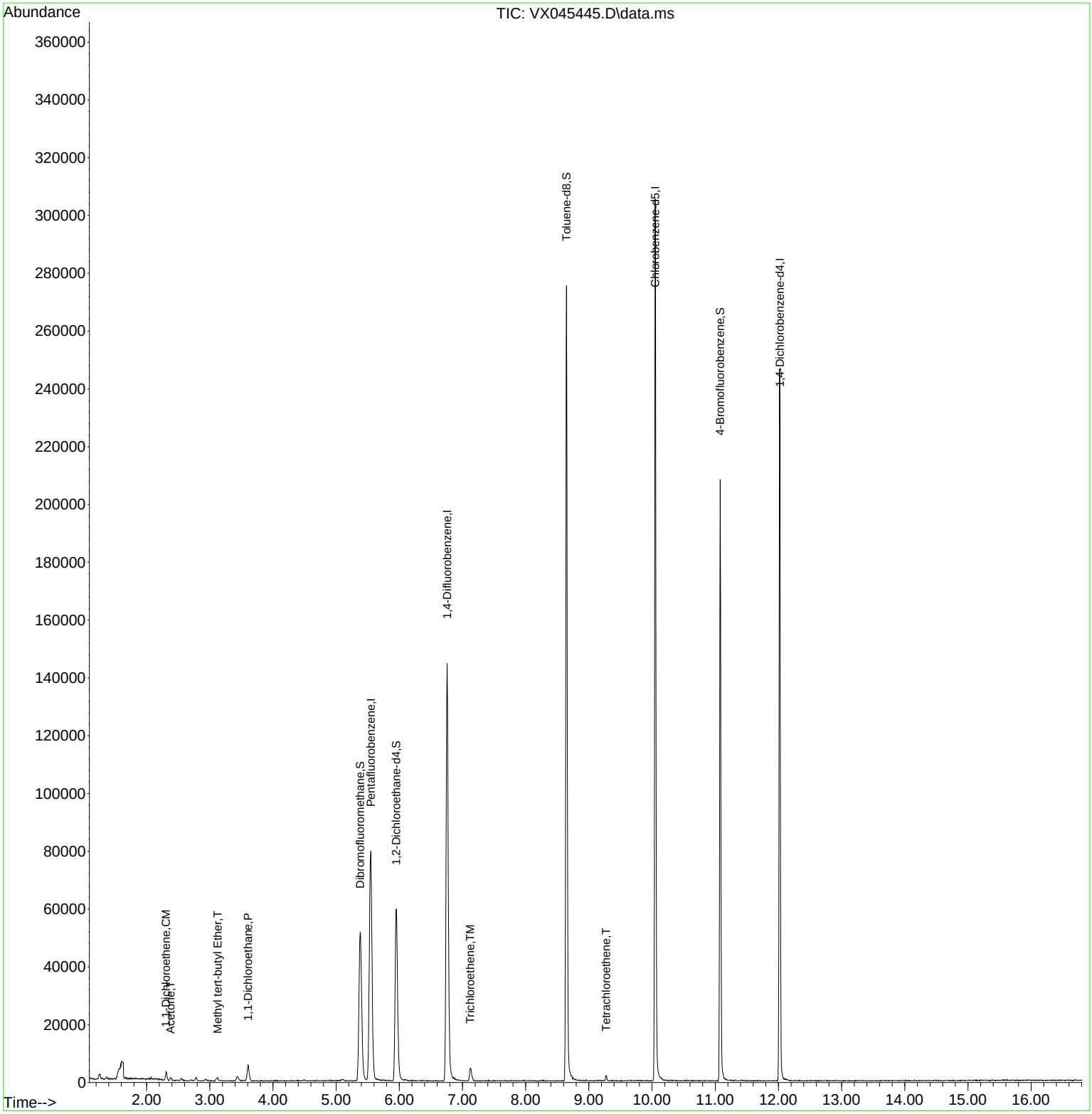
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	70075	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	137552	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	122364	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	47236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60163	53.975	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.960%			
35) Dibromofluoromethane	5.379	113	44839	48.750	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.500%			
50) Toluene-d8	8.647	98	157304	47.175	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.340%			
62) 4-Bromofluorobenzene	11.079	95	53583	48.493	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.980%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	2.306	96	1069	1.241	ug/l	92
16) Acetone	2.380	43	1267	2.450	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	1125	0.389	ug/l #	82
24) 1,1-Dichloroethane	3.605	63	6026	3.449	ug/l	95
44) Trichloroethene	7.123	130	1836	1.963	ug/l	76
64) Tetrachloroethene	9.275	164	330	0.421	ug/l #	81

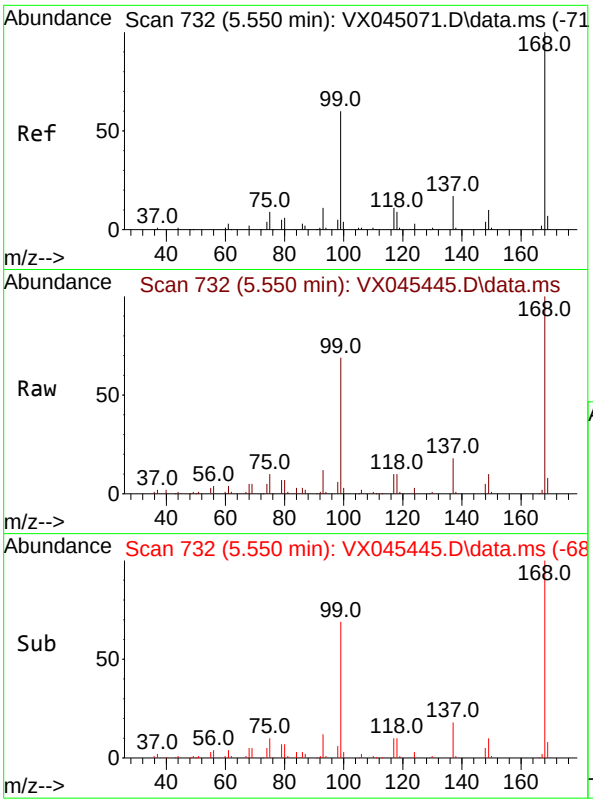
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045445.D
Acq On : 25 Mar 2025 17:09
Operator : JC/MD
Sample : Q1629-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Quant Time: Mar 26 01:41:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



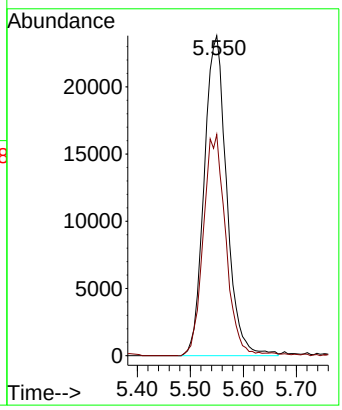


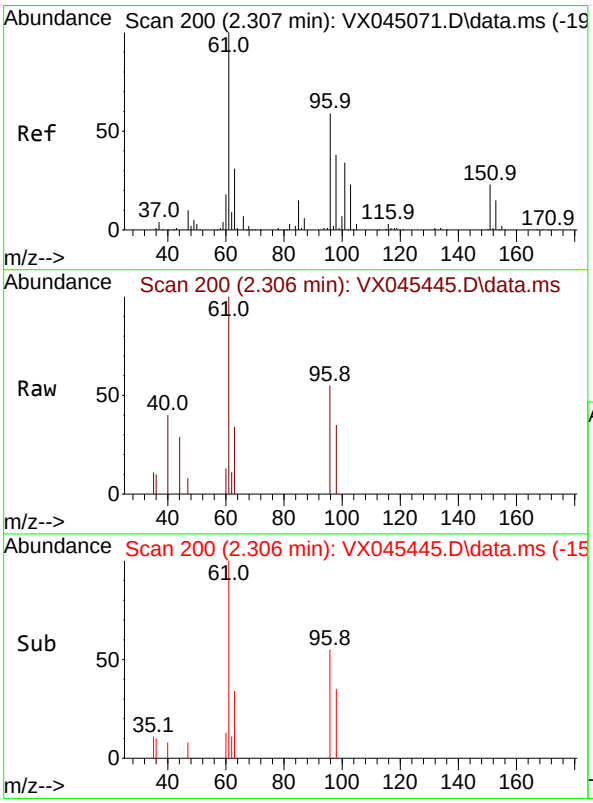
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Tgt Ion:168 Resp: 70075

Ion	Ratio	Lower	Upper
168	100		
99	69.1	48.2	72.4

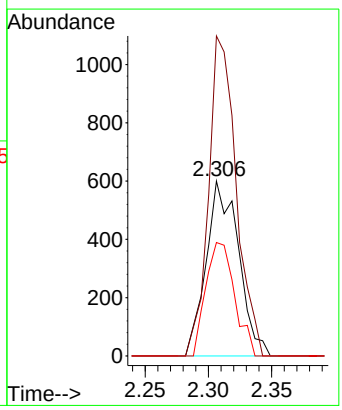


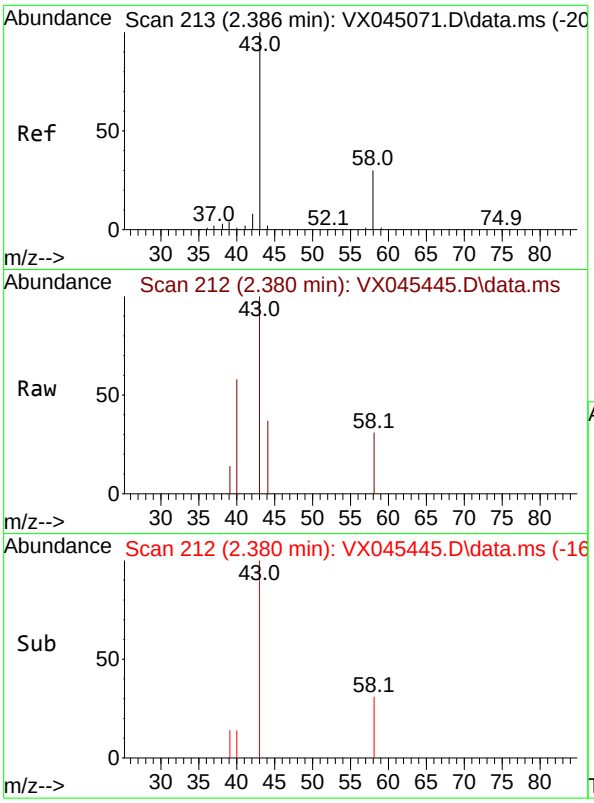


#12
1,1-Dichloroethene
Concen: 1.241 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Tgt Ion: 96 Resp: 1069

Ion	Ratio	Lower	Upper
96	100		
61	183.0	134.6	202.0
98	64.8	51.0	76.6



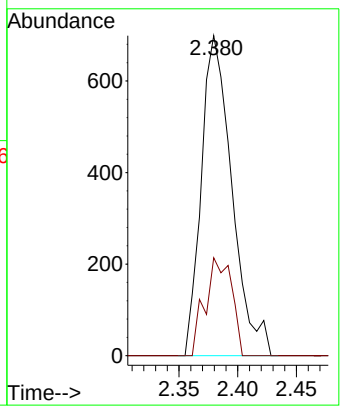


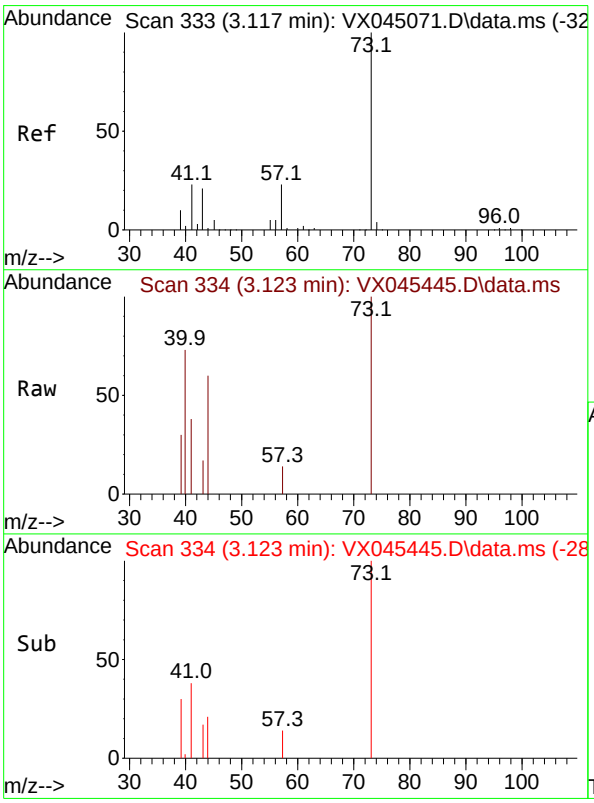
#16
Acetone
Concen: 2.450 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Tgt Ion: 43 Resp: 1267

Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.2	36.4

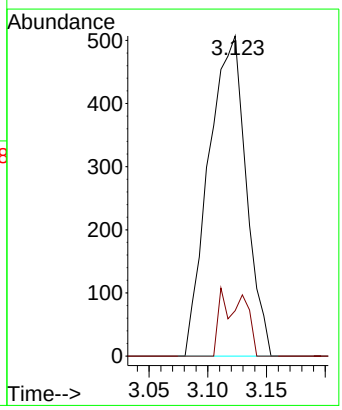


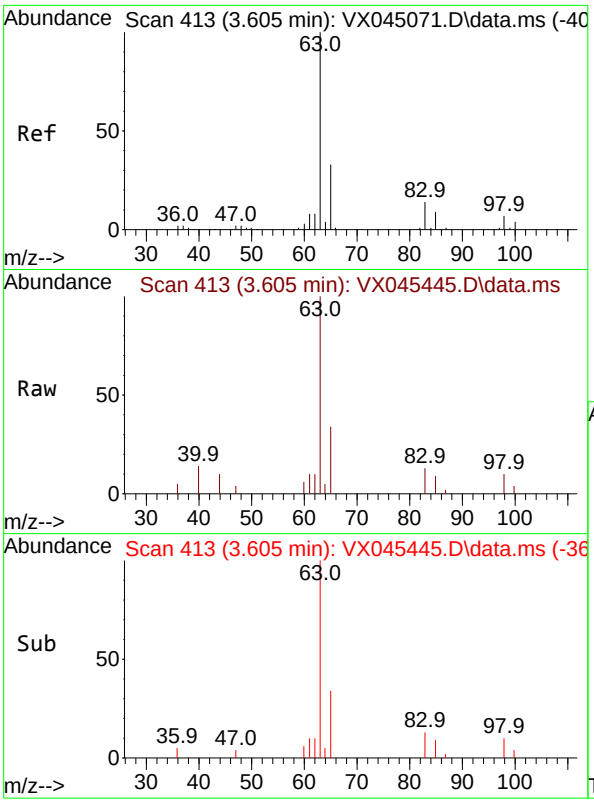


#19
Methyl tert-butyl Ether
Concen: 0.389 ug/l
RT: 3.123 min Scan# 334
Delta R.T. 0.006 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Tgt Ion: 73 Resp: 1125

Ion	Ratio	Lower	Upper
73	100		
57	14.2	18.5	27.7#



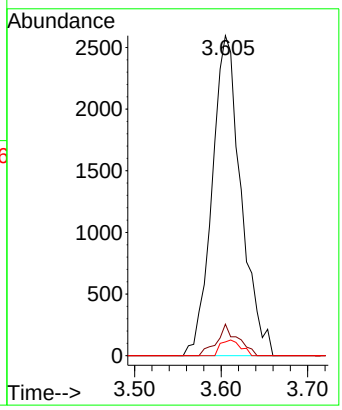


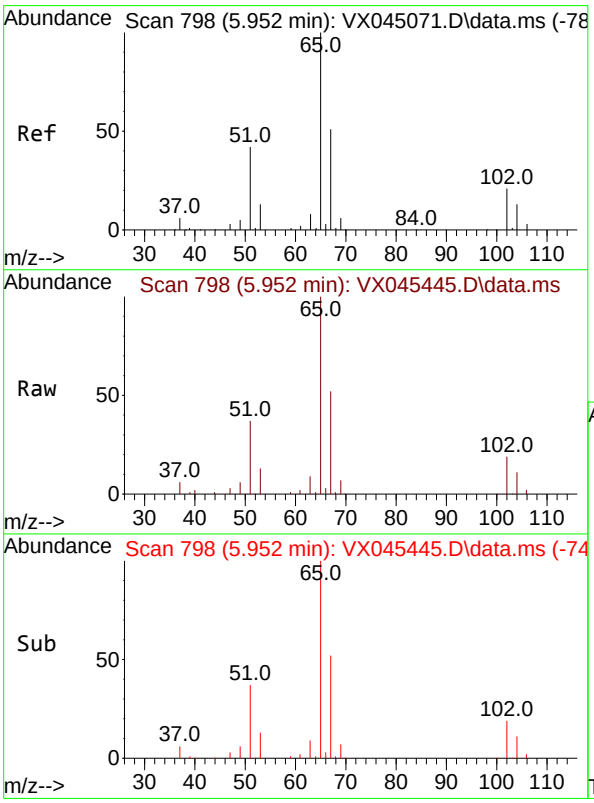
#24
1,1-Dichloroethane
Concen: 3.449 ug/l
RT: 3.605 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Tgt Ion: 63 Resp: 6026

Ion	Ratio	Lower	Upper
63	100		
98	9.8	3.4	10.2
100	4.3	2.1	6.5

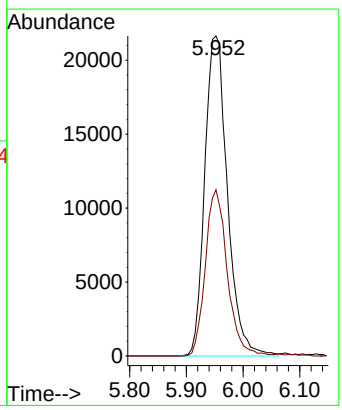


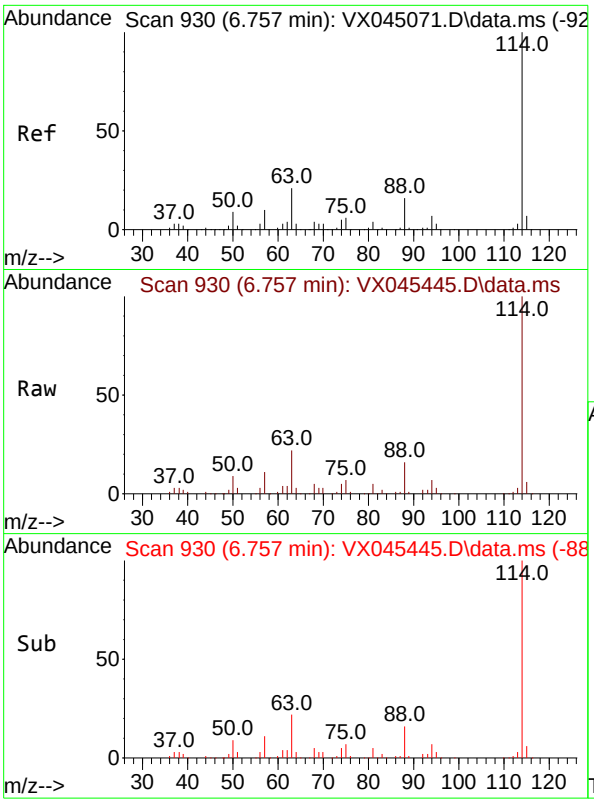


#33
1,2-Dichloroethane-d4
Concen: 53.975 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Tgt Ion: 65 Resp: 60163

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	106.2



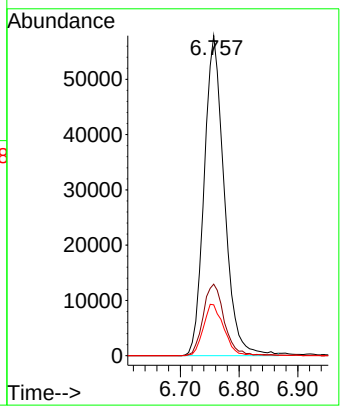


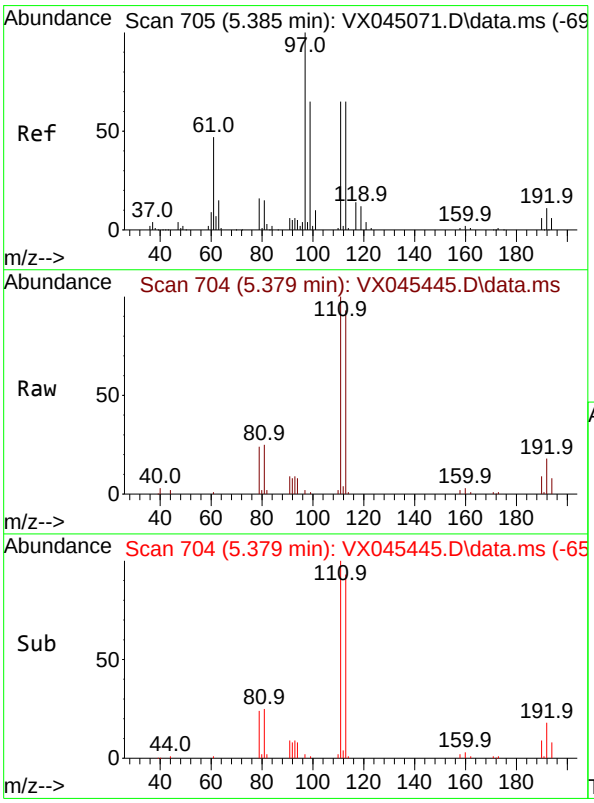
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Tgt Ion:114 Resp: 137552

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	41.8
88	15.9	0.0	32.8

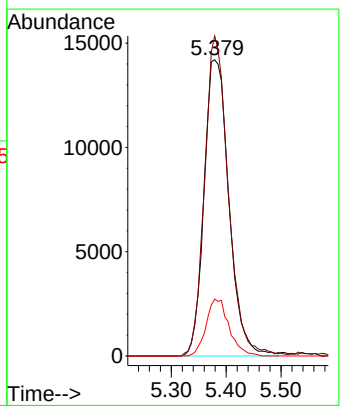


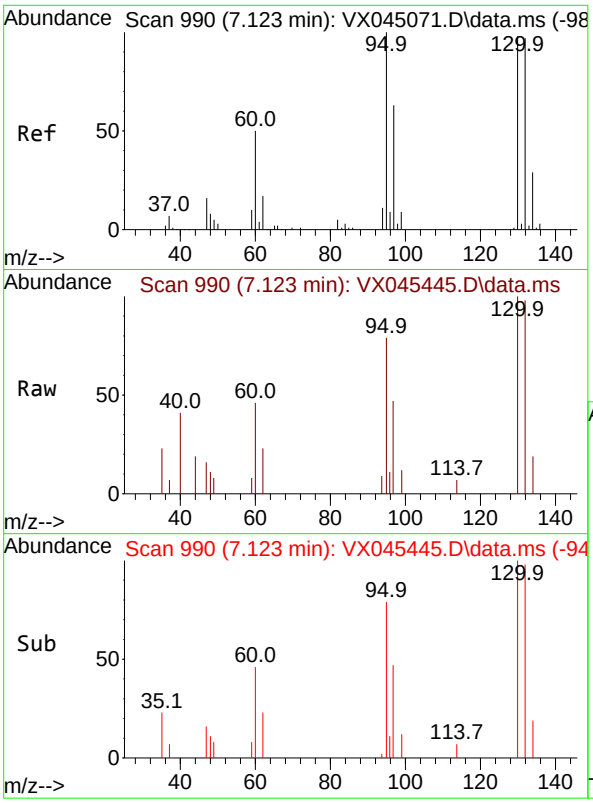


#35
Dibromofluoromethane
Concen: 48.750 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Tgt Ion:113 Resp: 44839

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.8	122.6
192	17.7	14.3	21.5



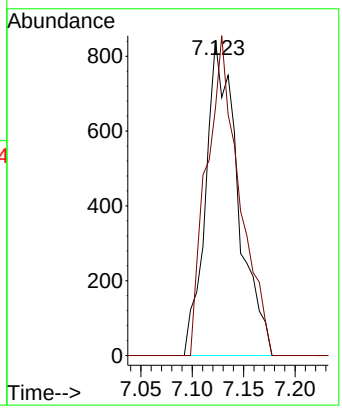


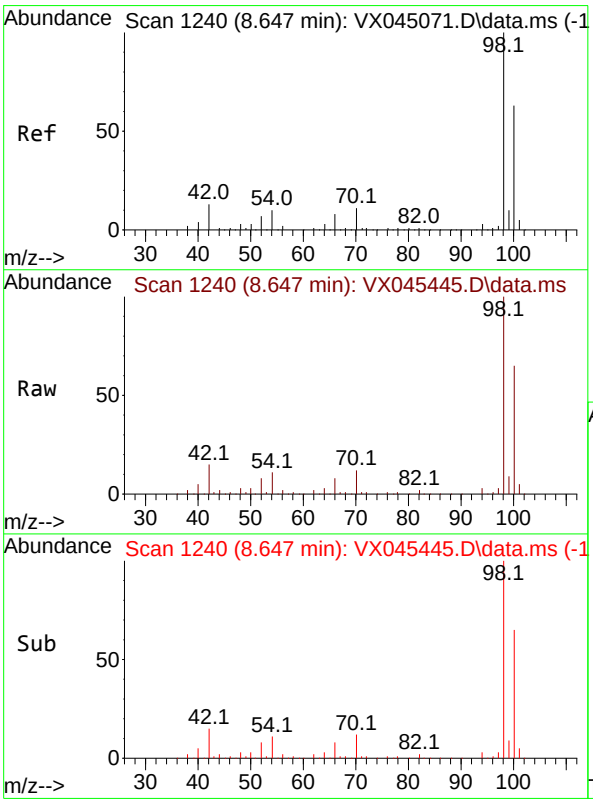
#44
Trichloroethene
Concen: 1.963 ug/l
RT: 7.123 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Tgt Ion:130 Resp: 1836

Ion	Ratio	Lower	Upper
130	100		
95	78.5	0.0	205.0

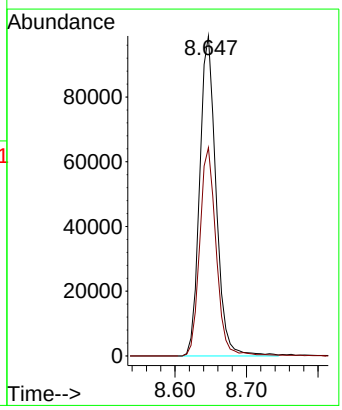


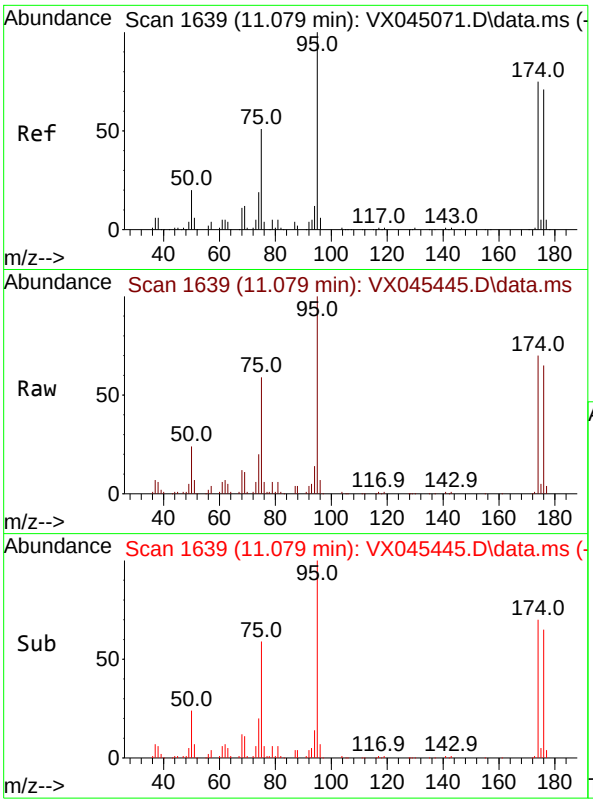


#50
Toluene-d8
Concen: 47.175 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Tgt Ion: 98 Resp: 157304

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.0	78.0



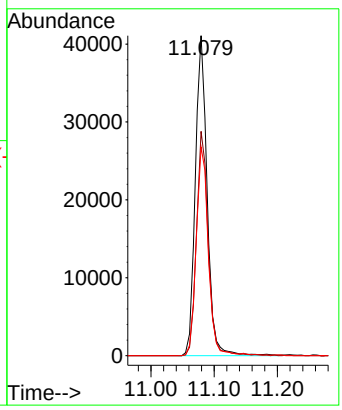


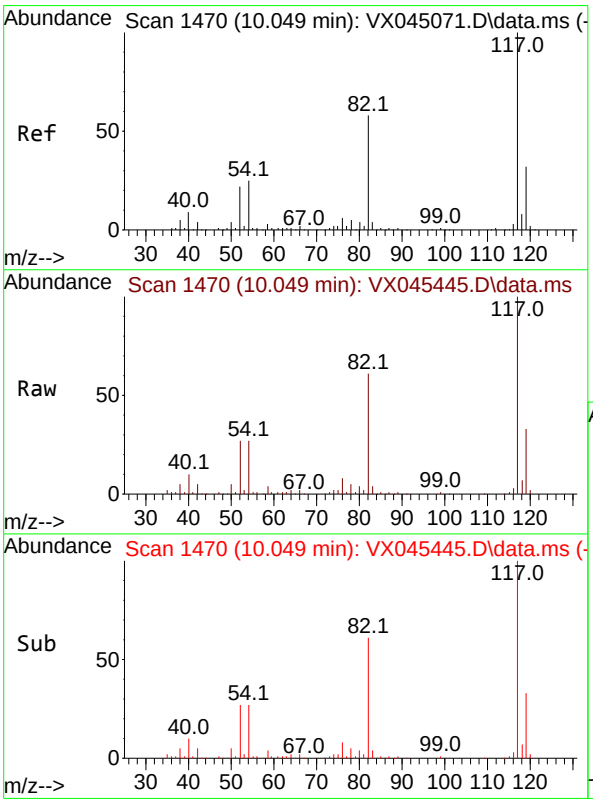
#62
4-Bromofluorobenzene
Concen: 48.493 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Tgt Ion: 95 Resp: 53583

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	148.2
176	66.8	0.0	141.4

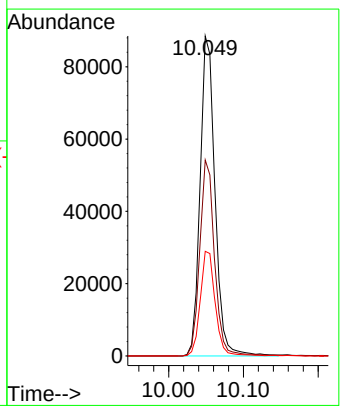


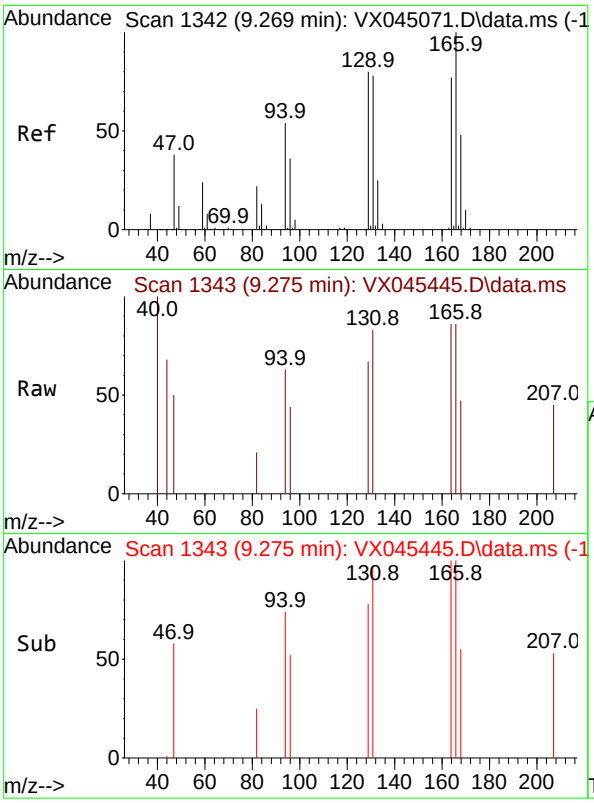


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Tgt Ion:117 Resp: 122364

Ion	Ratio	Lower	Upper
117	100		
82	61.2	46.3	69.5
119	32.7	25.7	38.5



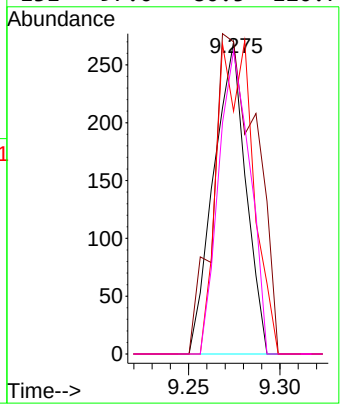


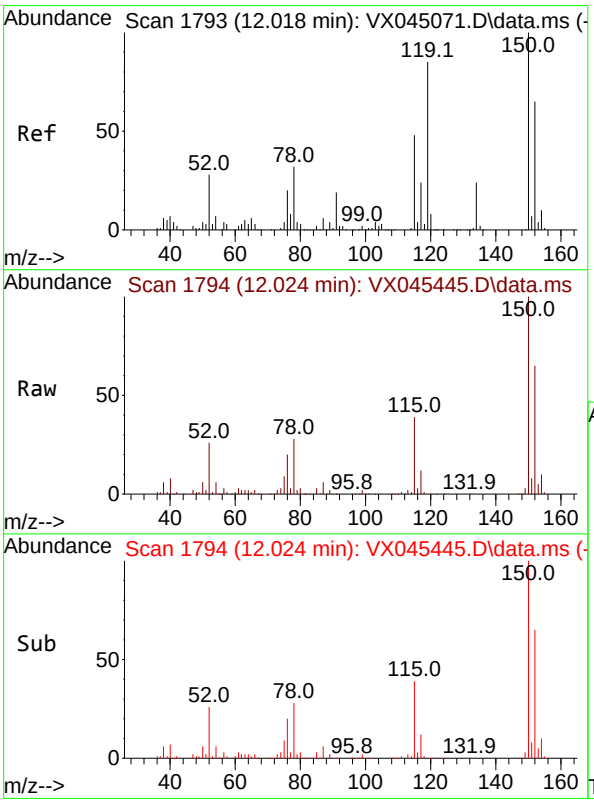
#64
Tetrachloroethene
Concen: 0.421 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
TT174I1-20250320

Tgt Ion:164 Resp: 330

Ion	Ratio	Lower	Upper
164	100		
166	100.0	103.6	155.4#
129	77.8	82.7	124.1#
131	97.0	80.5	120.7

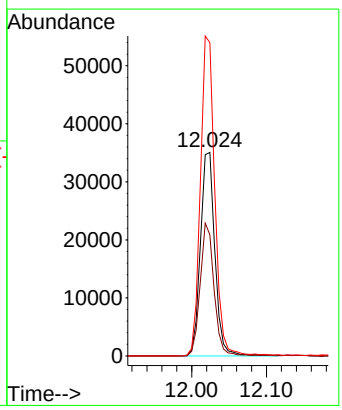




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045445.D
Acq: 25 Mar 2025 17:09

Tgt Ion:152 Resp: 47236

Ion	Ratio	Lower	Upper
152	100		
115	62.3	44.2	132.6
150	156.4	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT162S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045446.D	1		03/25/25 17:32	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.80	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	11.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT162S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045446.D	1		03/25/25 17:32	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	1.10		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.9		81 - 118		112%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	47.5		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	68000	5.544				
540-36-3	1,4-Difluorobenzene	134000	6.757				
3114-55-4	Chlorobenzene-d5	122000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	51000	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT162S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045446.D	1		03/25/25 17:32	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045446.D
Acq On : 25 Mar 2025 17:32
Operator : JC/MD
Sample : Q1629-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Quant Time: Mar 26 01:42:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

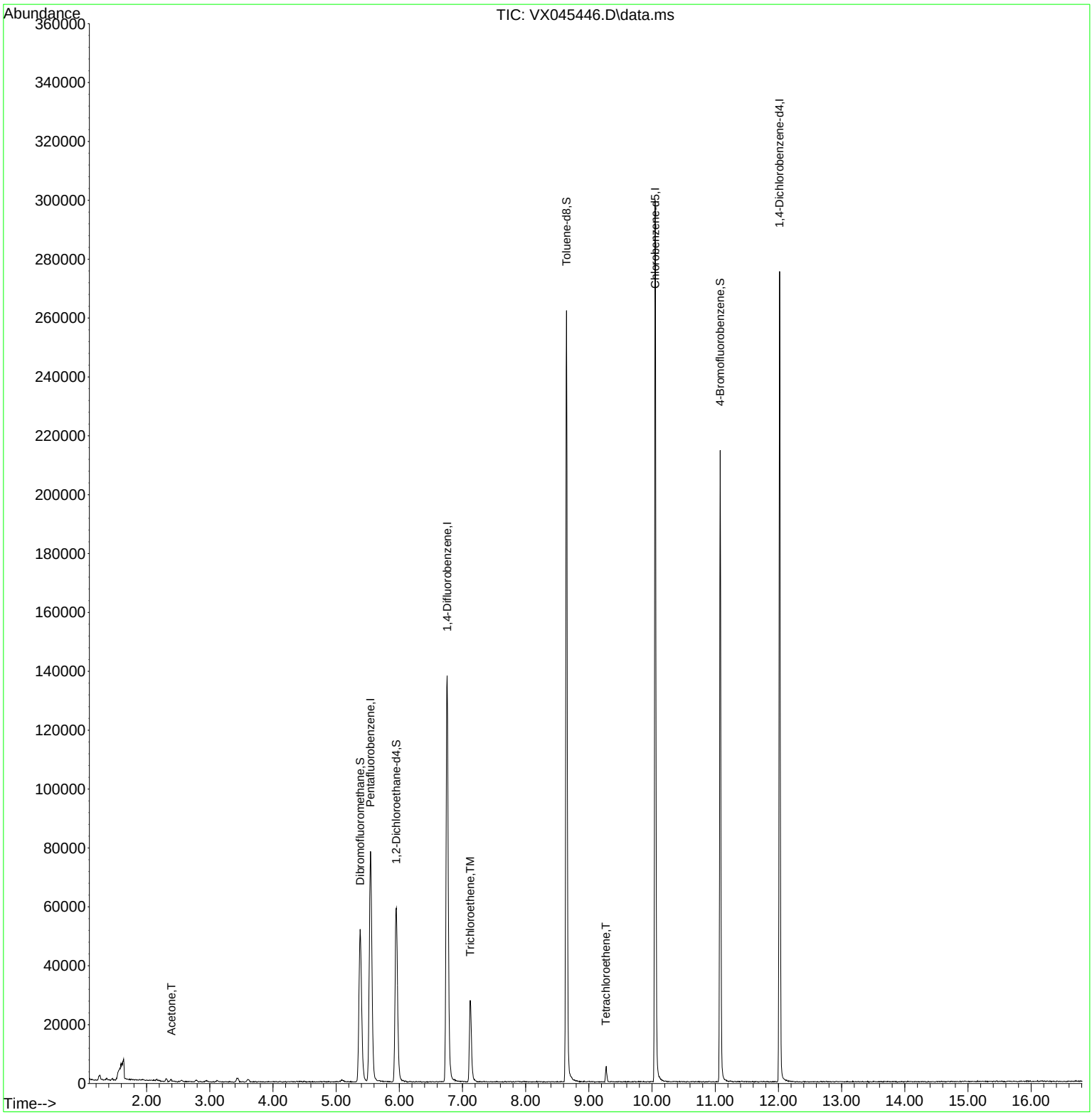
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	68003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133718	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	122480	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50952	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60434	55.870	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.740%			
35) Dibromofluoromethane	5.379	113	44832	50.140	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.280%			
50) Toluene-d8	8.647	98	154109	47.542	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.080%			
62) 4-Bromofluorobenzene	11.079	95	55715	51.869	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.740%			
Target Compounds						Qvalue
16) Acetone	2.392	43	886	1.765	ug/l	100
44) Trichloroethene	7.123	130	10826	11.907	ug/l	98
64) Tetrachloroethene	9.269	164	830	1.058	ug/l #	86

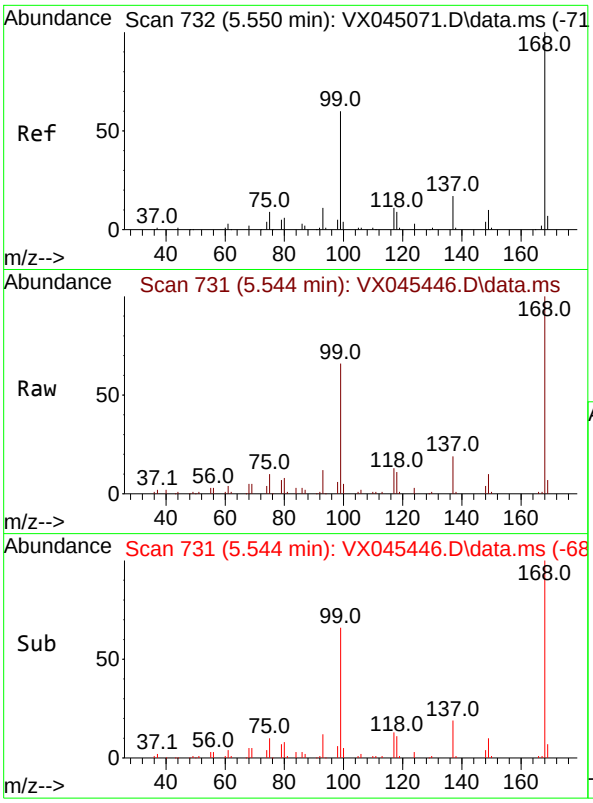
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045446.D
Acq On : 25 Mar 2025 17:32
Operator : JC/MD
Sample : Q1629-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Quant Time: Mar 26 01:42:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



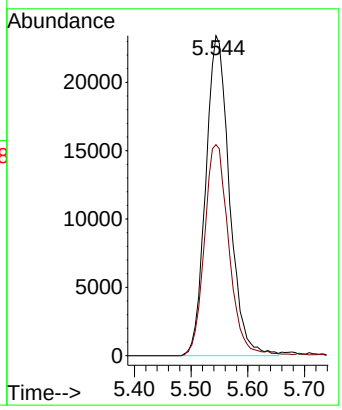


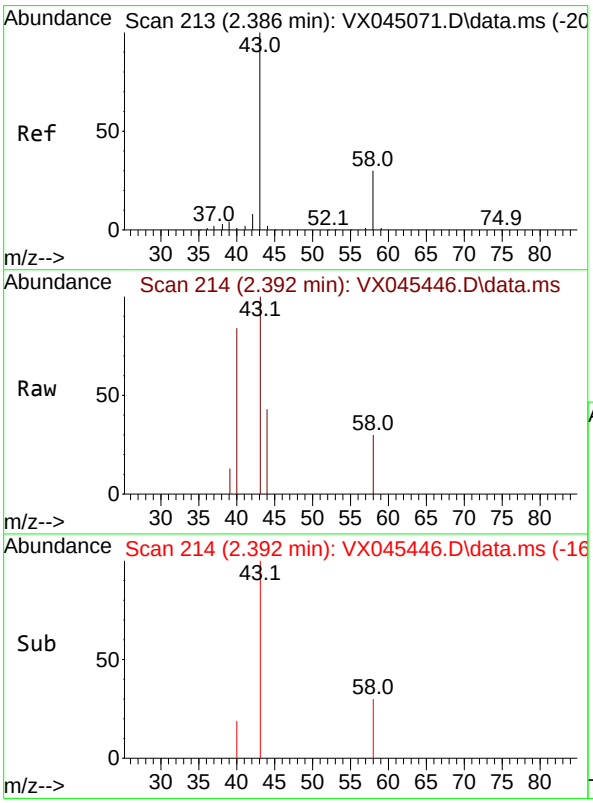
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Tgt Ion:168 Resp: 68003

Ion	Ratio	Lower	Upper
168	100		
99	65.9	48.2	72.4

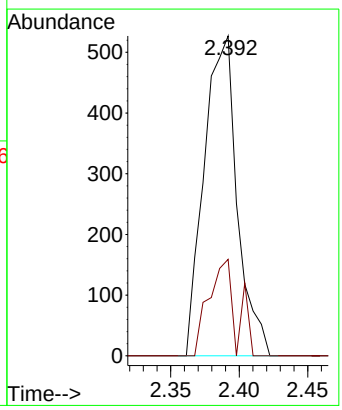


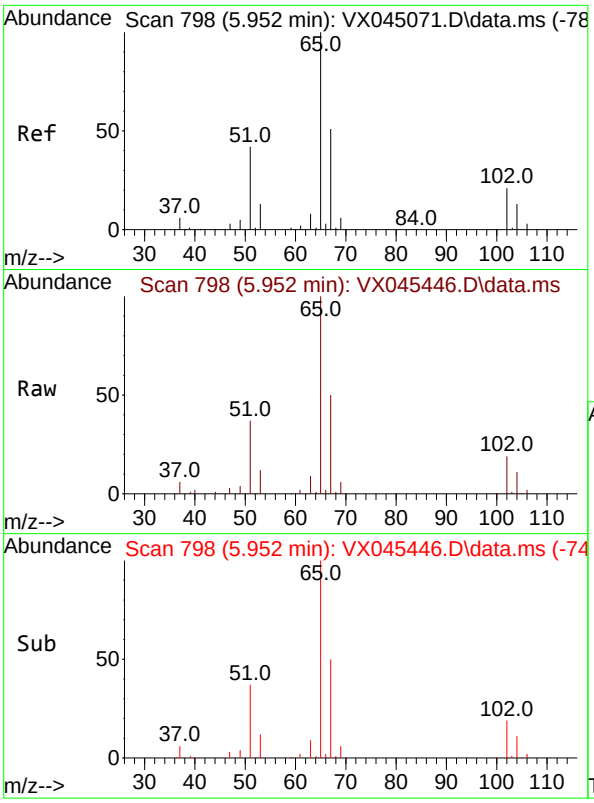


#16
Acetone
Concen: 1.765 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Tgt Ion: 43 Resp: 886

Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.2	36.4



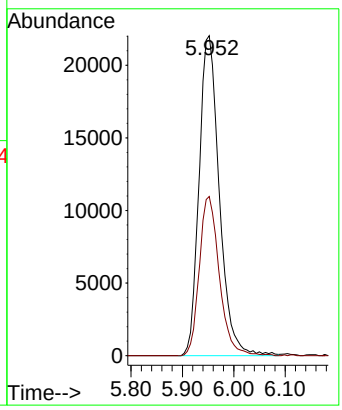


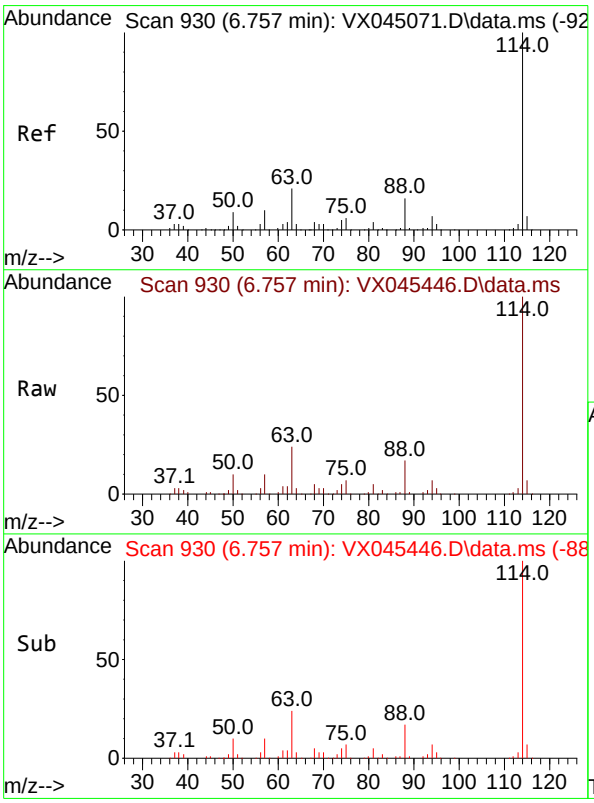
#33
1,2-Dichloroethane-d4
Concen: 55.870 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Tgt Ion: 65 Resp: 60434

Ion	Ratio	Lower	Upper
65	100		
67	49.1	0.0	106.2

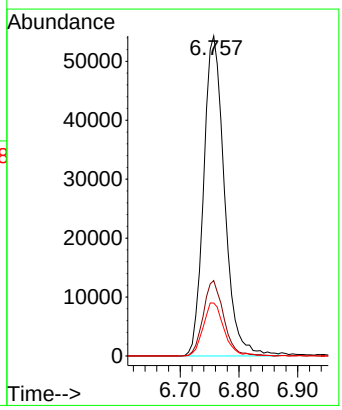


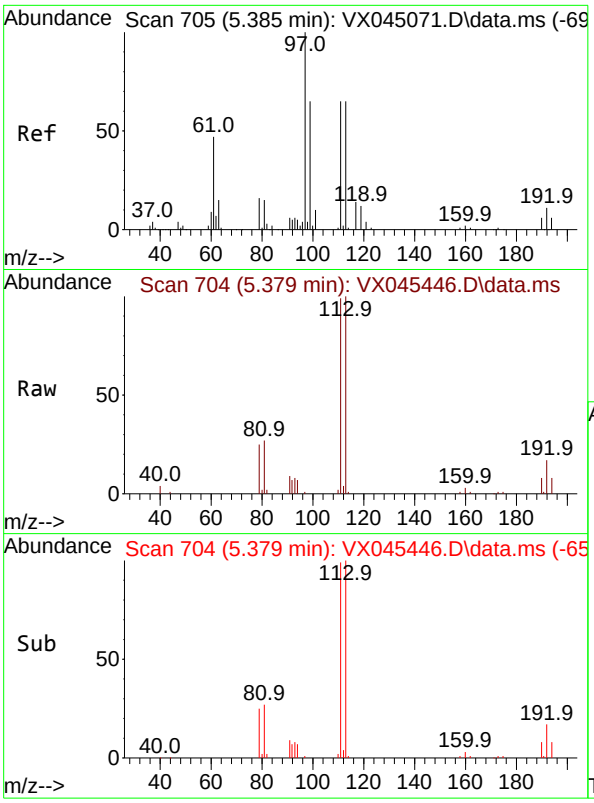


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Tgt Ion:114 Resp: 133718

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	41.8
88	16.5	0.0	32.8



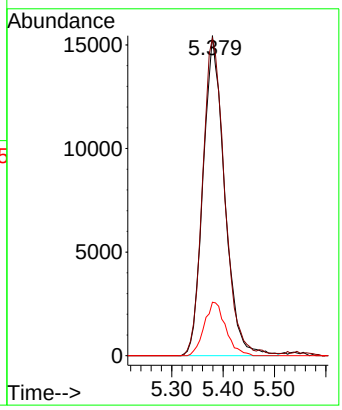


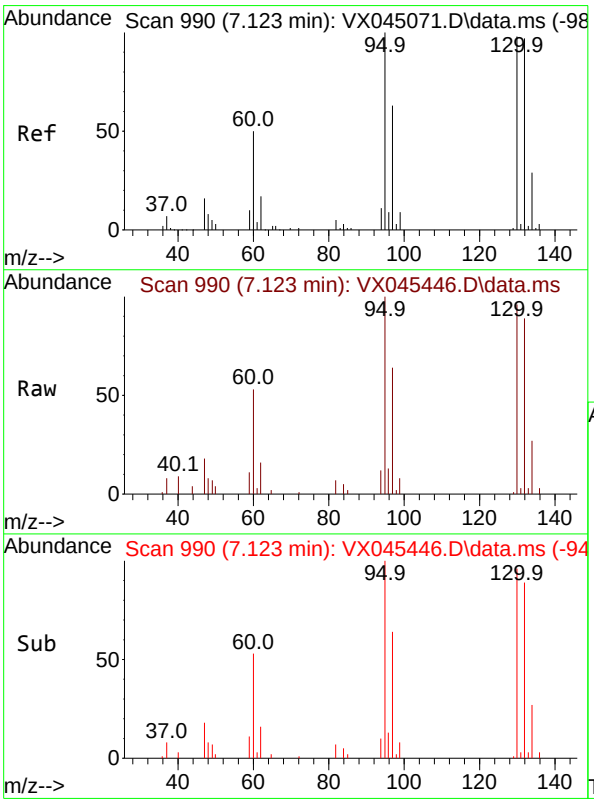
#35
Dibromofluoromethane
Concen: 50.140 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Tgt Ion:113 Resp: 44832

Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.8	122.6
192	16.7	14.3	21.5

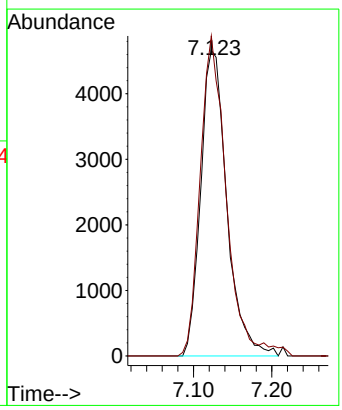


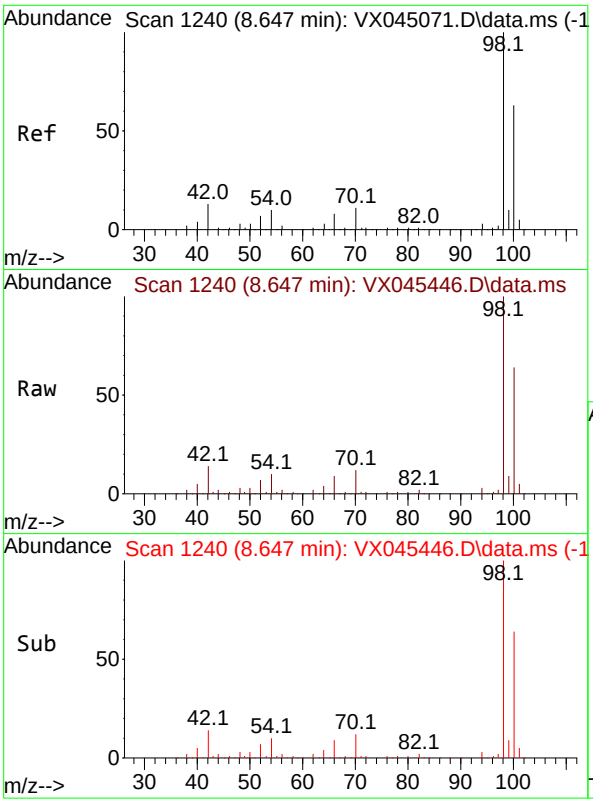


#44
Trichloroethene
Concen: 11.907 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Tgt Ion:130 Resp: 10826

Ion	Ratio	Lower	Upper
130	100		
95	104.7	0.0	205.0



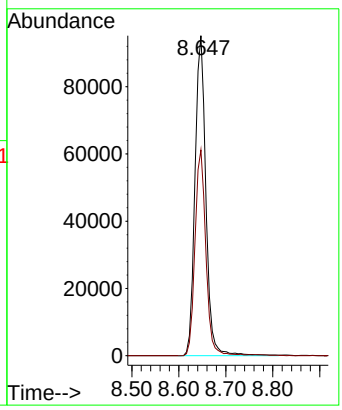


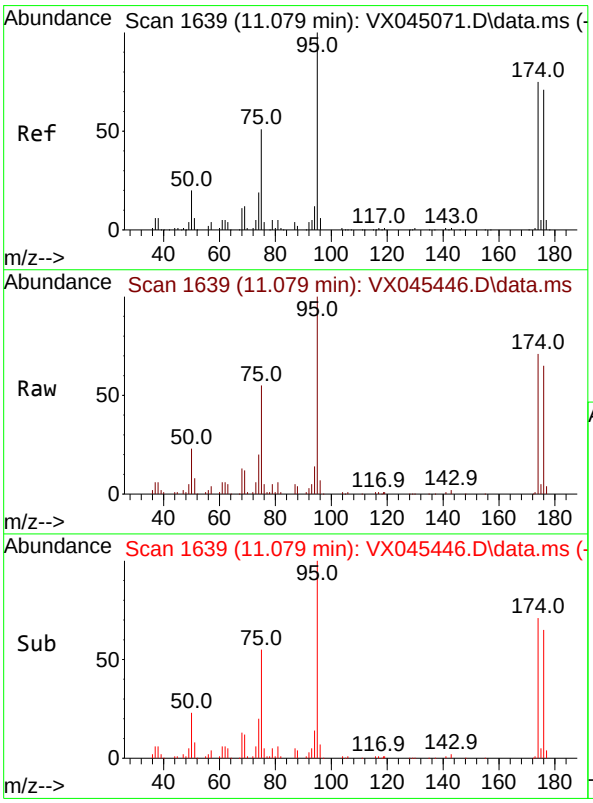
#50
Toluene-d8
Concen: 47.542 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Tgt Ion: 98 Resp: 154109

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0

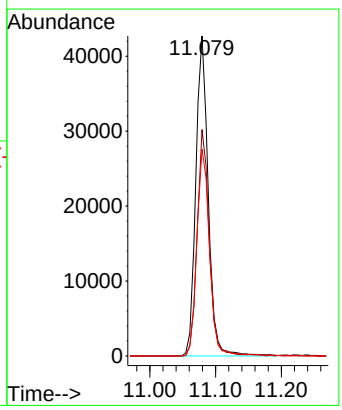


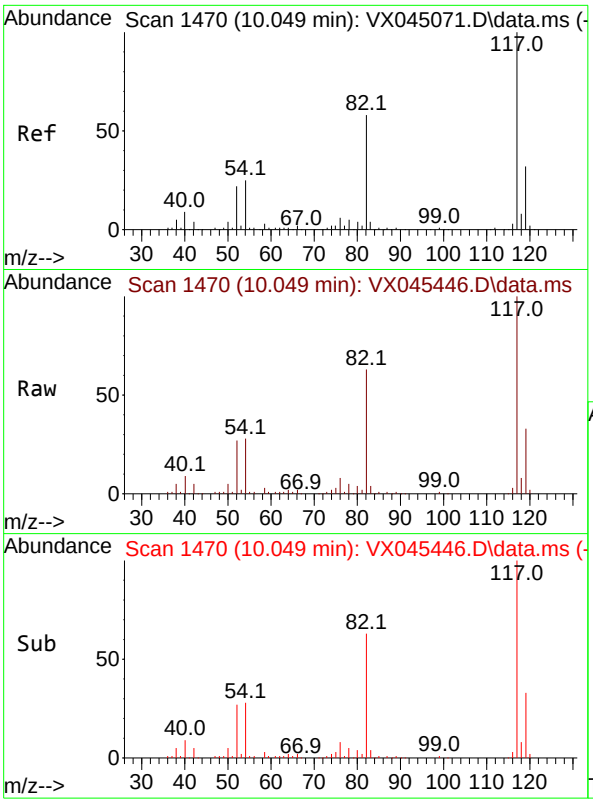


#62
4-Bromofluorobenzene
Concen: 51.869 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Tgt Ion: 95 Resp: 55715

Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	148.2
176	65.9	0.0	141.4



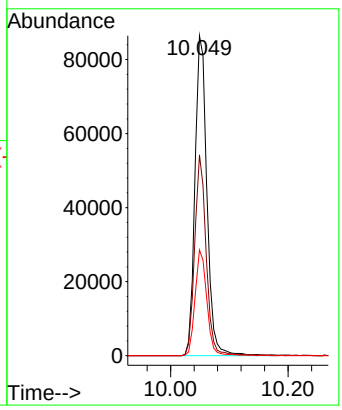


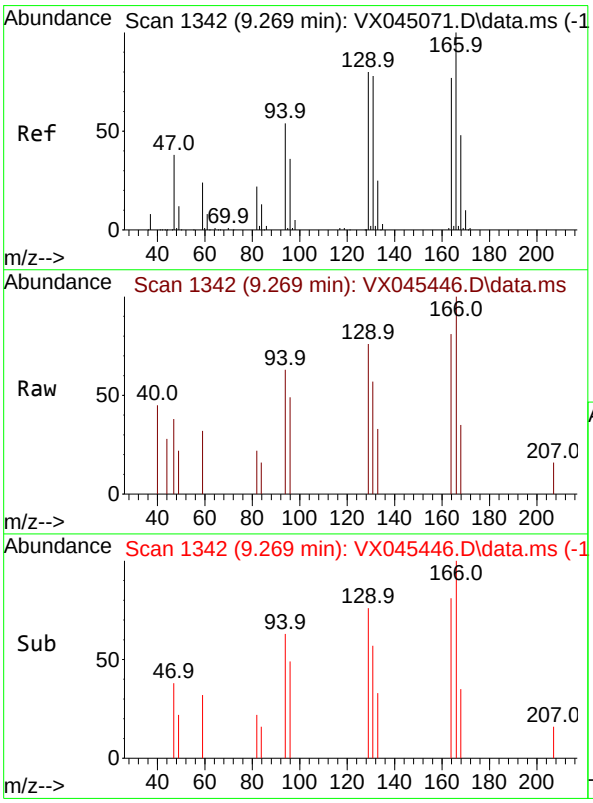
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Tgt Ion:117 Resp: 122480

Ion	Ratio	Lower	Upper
117	100		
82	62.8	46.3	69.5
119	33.1	25.7	38.5

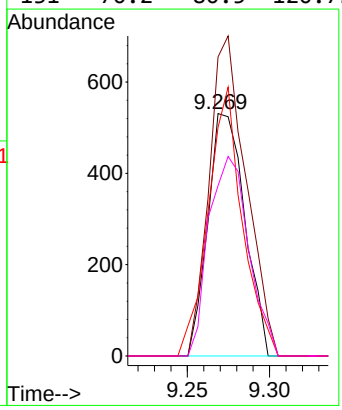


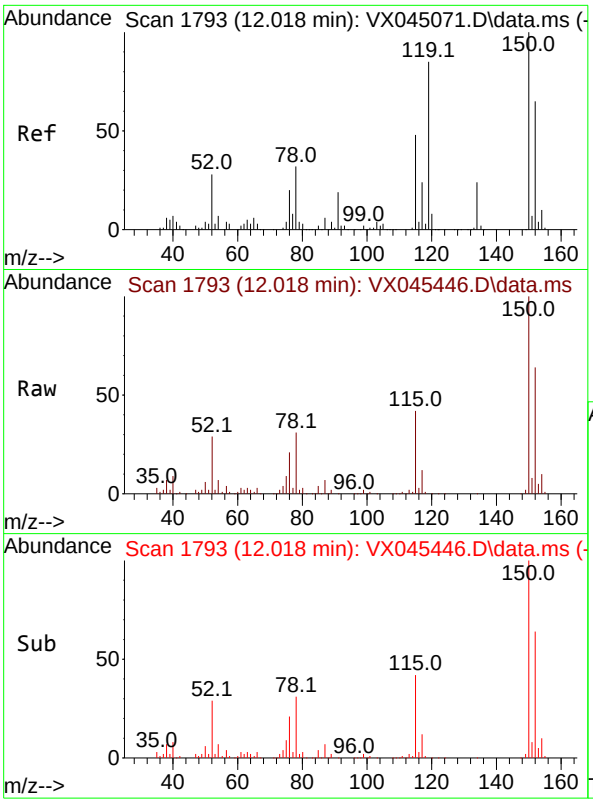


#64
Tetrachloroethene
Concen: 1.058 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Tgt Ion:164 Resp: 830

Ion	Ratio	Lower	Upper
164	100		
166	123.4	103.6	155.4
129	94.4	82.7	124.1
131	70.2	80.5	120.7#



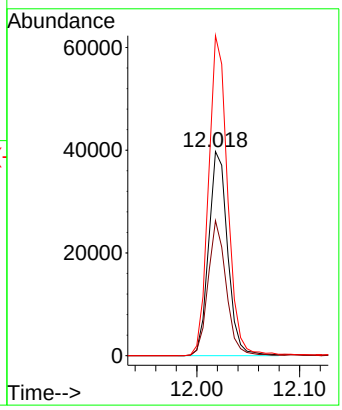


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045446.D
Acq: 25 Mar 2025 17:32

Instrument :
MSVOA_X
ClientSampleId :
TT162S1-20250320

Tgt Ion:152 Resp: 50952

Ion	Ratio	Lower	Upper
152	100		
115	63.1	44.2	132.6
150	157.7	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045466.D	1		03/26/25 13:43	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.20	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQM	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	UM	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	5.30		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045466.D	1		03/26/25 13:43	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	UM	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	UM	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	UM	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.5		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	46.4		89 - 112		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	68100	5.544				
540-36-3	1,4-Difluorobenzene	134000	6.757				
3114-55-4	Chlorobenzene-d5	120000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	47700	12.024				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045466.D	1		03/26/25 13:43	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045466.D
Acq On : 26 Mar 2025 13:43
Operator : JC/MD
Sample : Q1629-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320

Quant Time: Mar 27 01:38:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

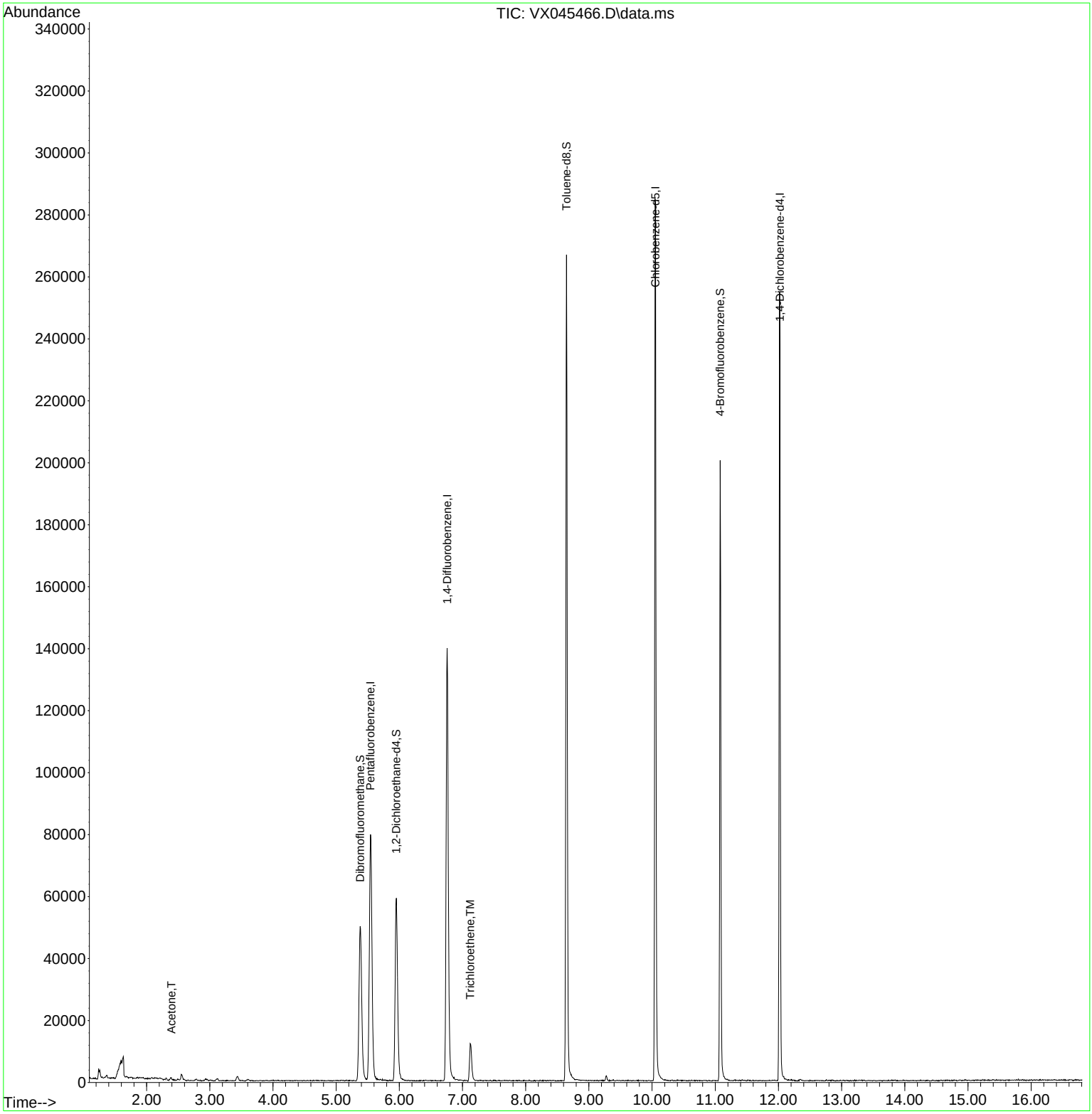
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	68093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	134396	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	120469	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	47673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	57930	53.484	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.960%			
35) Dibromofluoromethane	5.379	113	44430	49.440	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.880%			
50) Toluene-d8	8.647	98	151229	46.418	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.840%			
62) 4-Bromofluorobenzene	11.079	95	51582	47.779	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.560%			
Target Compounds						Qvalue
16) Acetone	2.392	43	1110	2.209	ug/l	97
44) Trichloroethene	7.123	130	4858	5.316	ug/l	90

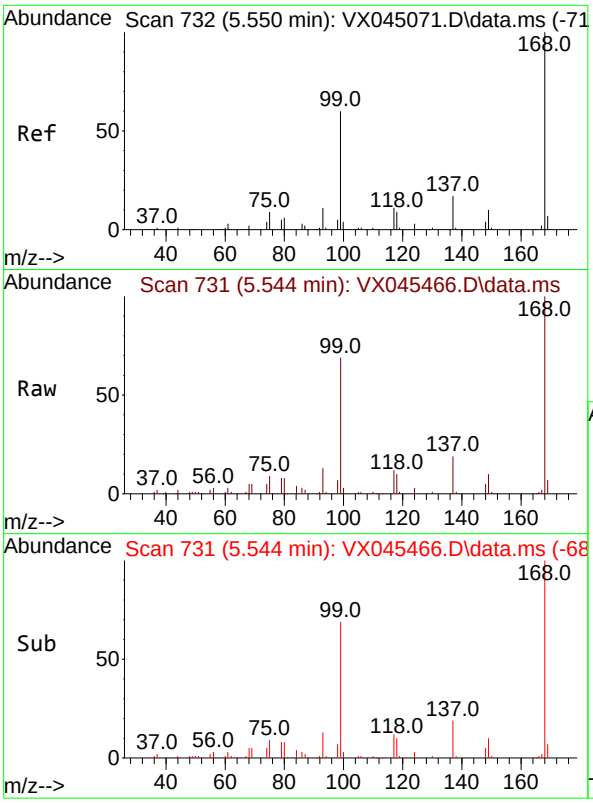
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045466.D
Acq On : 26 Mar 2025 13:43
Operator : JC/MD
Sample : Q1629-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320

Quant Time: Mar 27 01:38:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



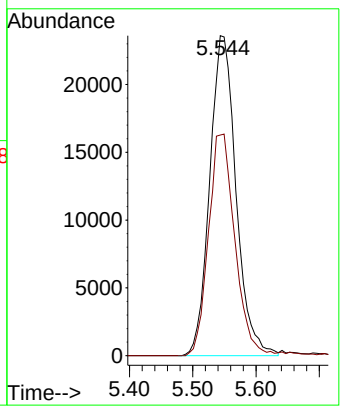


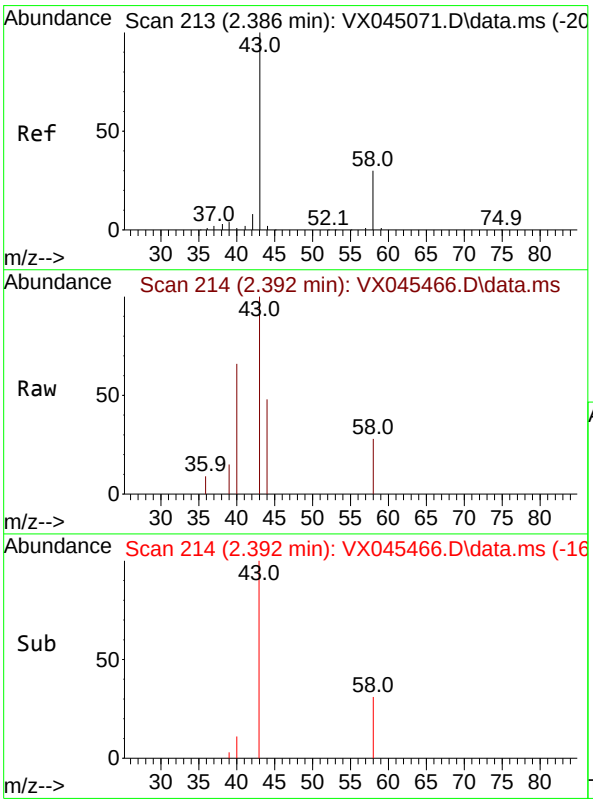
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320

Tgt Ion:168 Resp: 68093

Ion	Ratio	Lower	Upper
168	100		
99	68.9	48.2	72.4

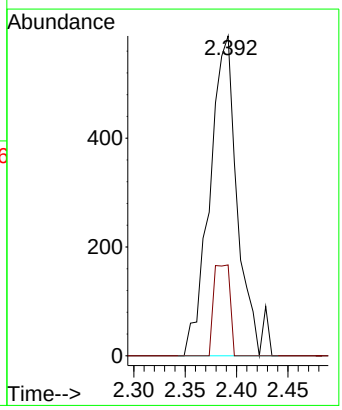


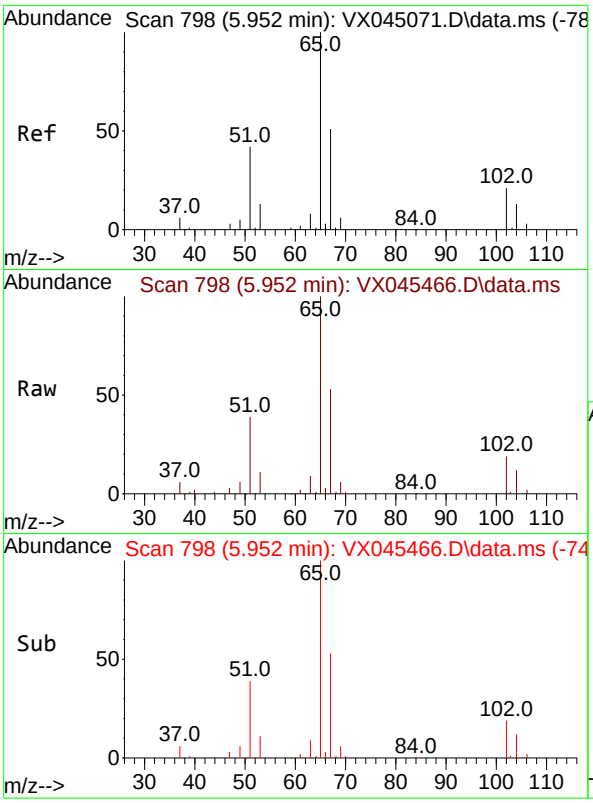


#16
Acetone
Concen: 2.209 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Tgt Ion: 43 Resp: 1110

Ion	Ratio	Lower	Upper
43	100		
58	28.4	24.2	36.4



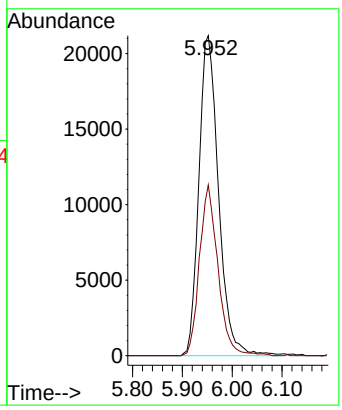


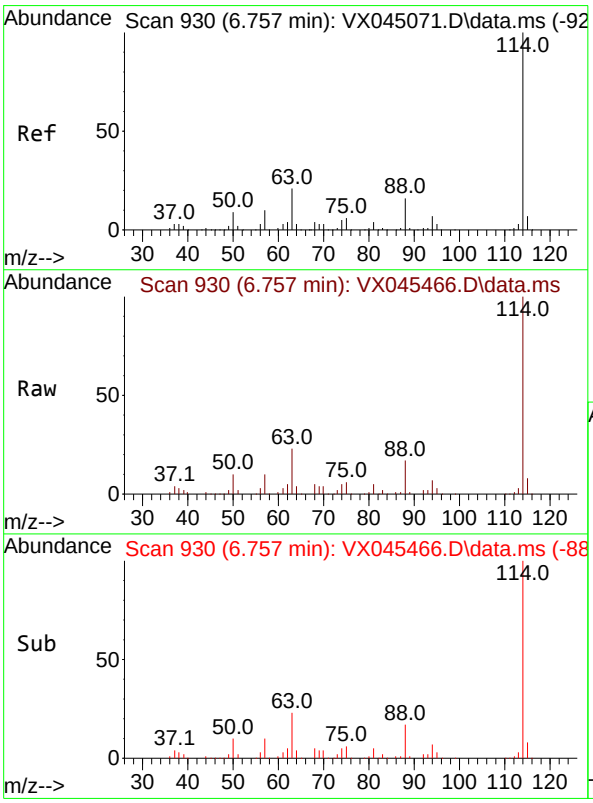
#33
1,2-Dichloroethane-d4
Concen: 53.484 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320

Tgt Ion: 65 Resp: 57930

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	106.2

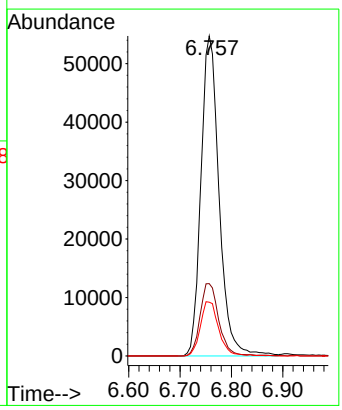


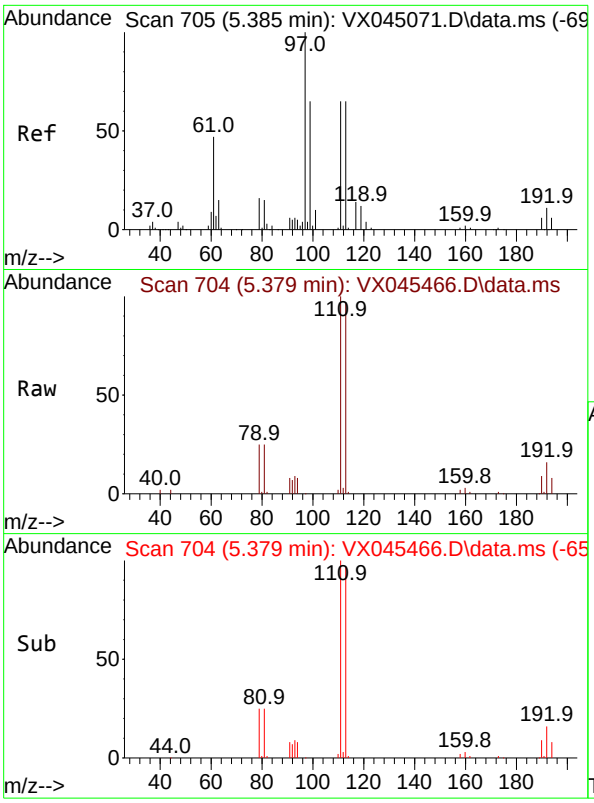


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Tgt Ion:114 Resp: 134396

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	41.8
88	16.8	0.0	32.8



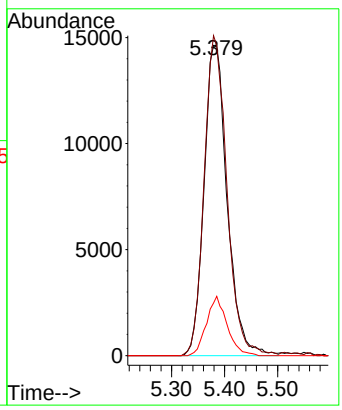


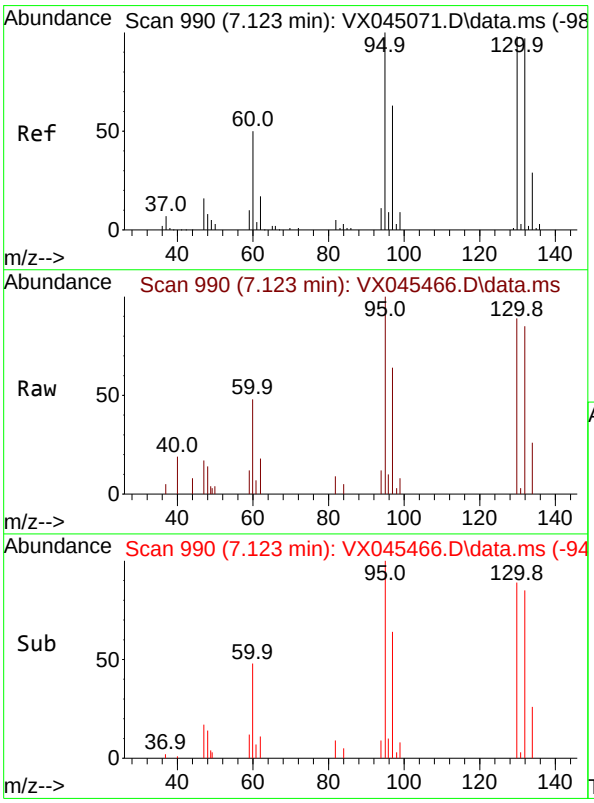
#35
Dibromofluoromethane
Concen: 49.440 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320

Tgt Ion:113 Resp: 44430

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.8	122.6
192	17.0	14.3	21.5

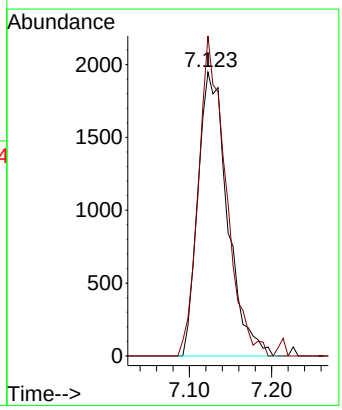


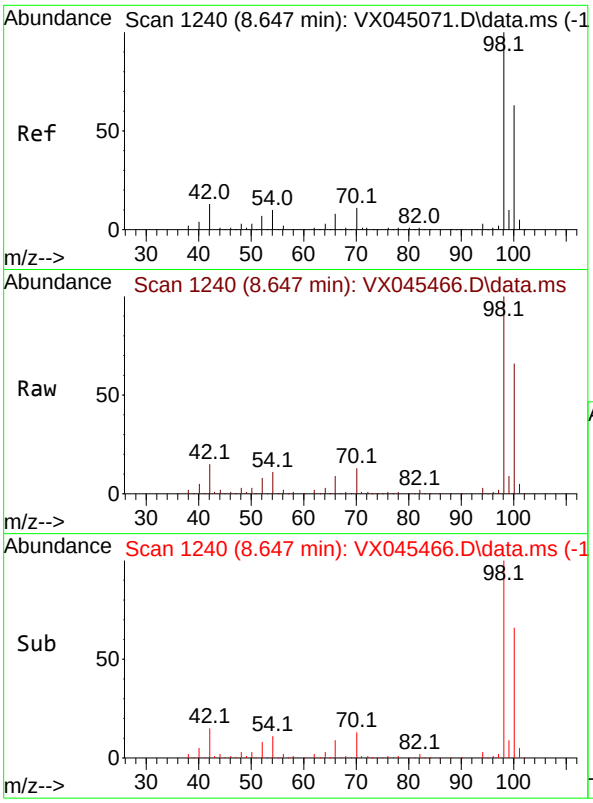


#44
Trichloroethene
Concen: 5.316 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Tgt Ion:130 Resp: 4858

Ion	Ratio	Lower	Upper
130	100		
95	112.8	0.0	205.0



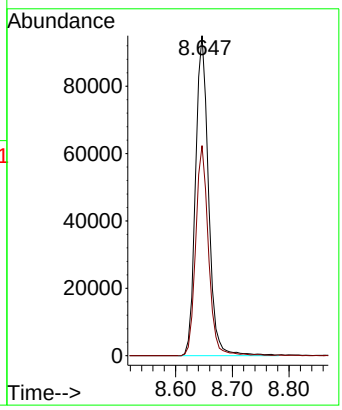


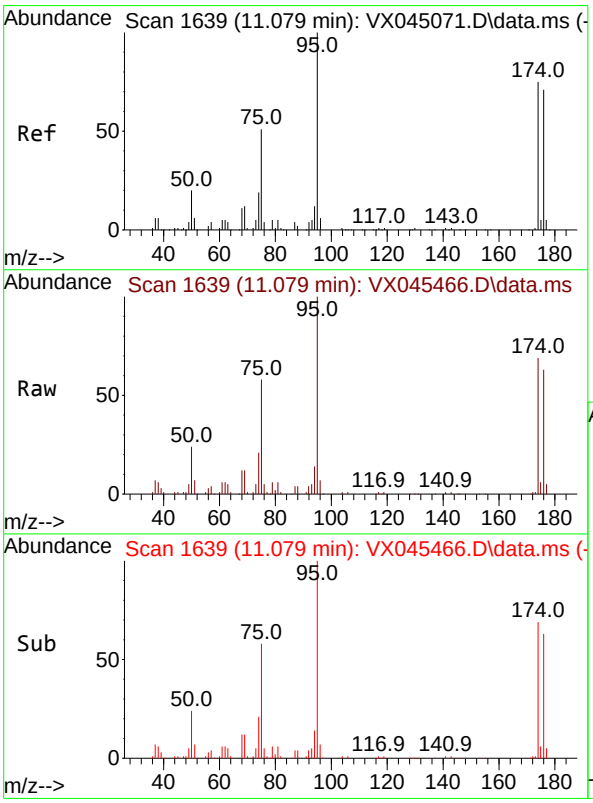
#50
Toluene-d8
Concen: 46.418 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320

Tgt Ion: 98 Resp: 151229

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.0	78.0

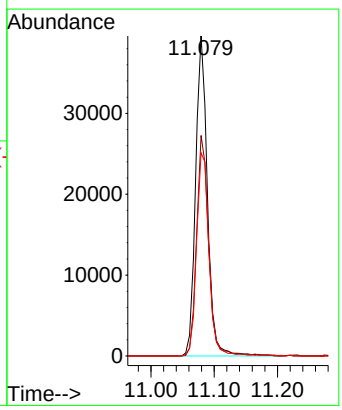


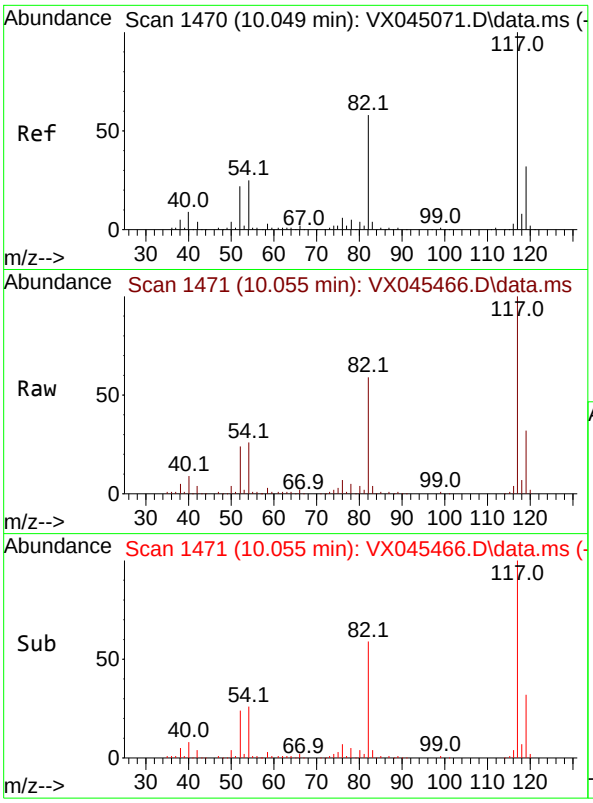


#62
4-Bromofluorobenzene
Concen: 47.779 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Tgt Ion: 95 Resp: 51582

Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	148.2
176	66.5	0.0	141.4



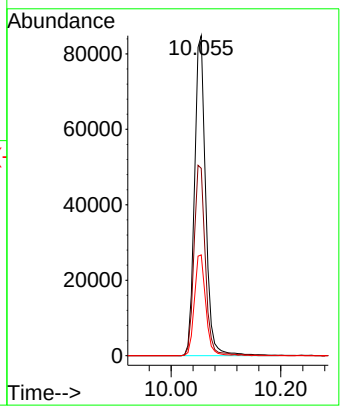


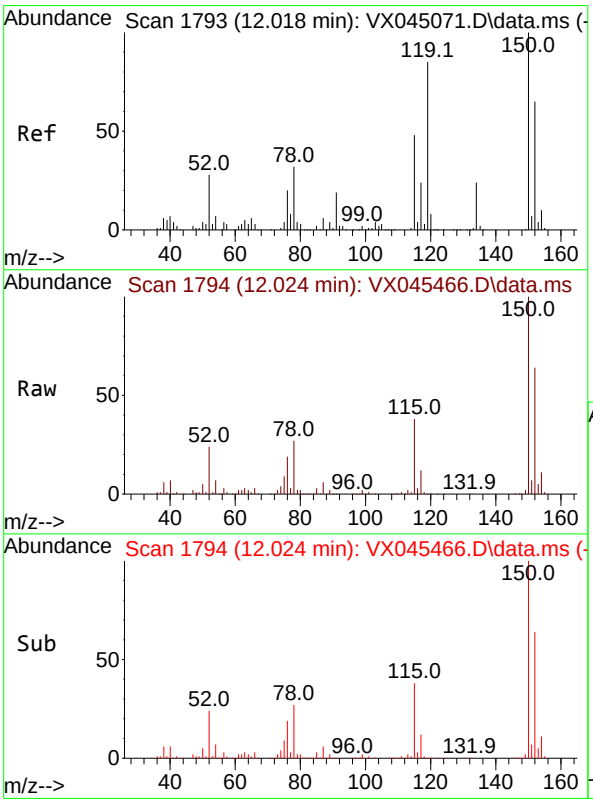
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320

Tgt Ion:117 Resp: 120469

Ion	Ratio	Lower	Upper
117	100		
82	58.5	46.3	69.5
119	31.5	25.7	38.5

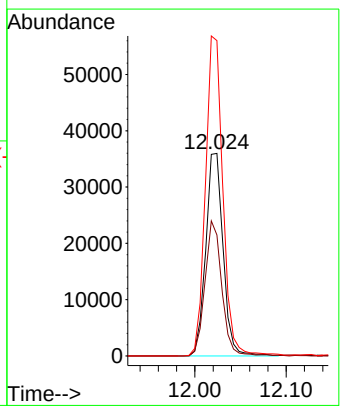




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045466.D
Acq: 26 Mar 2025 13:43

Tgt Ion:152 Resp: 47673

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.2	132.6
150	157.6	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045447.D	1		03/25/25 17:55	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.80	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045447.D	1		03/25/25 17:55	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.3		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	47.8		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	74700	5.543				
540-36-3	1,4-Difluorobenzene	147000	6.757				
3114-55-4	Chlorobenzene-d5	136000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	52500	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045447.D	1		03/25/25 17:55	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045447.D
Acq On : 25 Mar 2025 17:55
Operator : JC/MD
Sample : Q1629-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D1-20250320

Quant Time: Mar 26 01:42:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

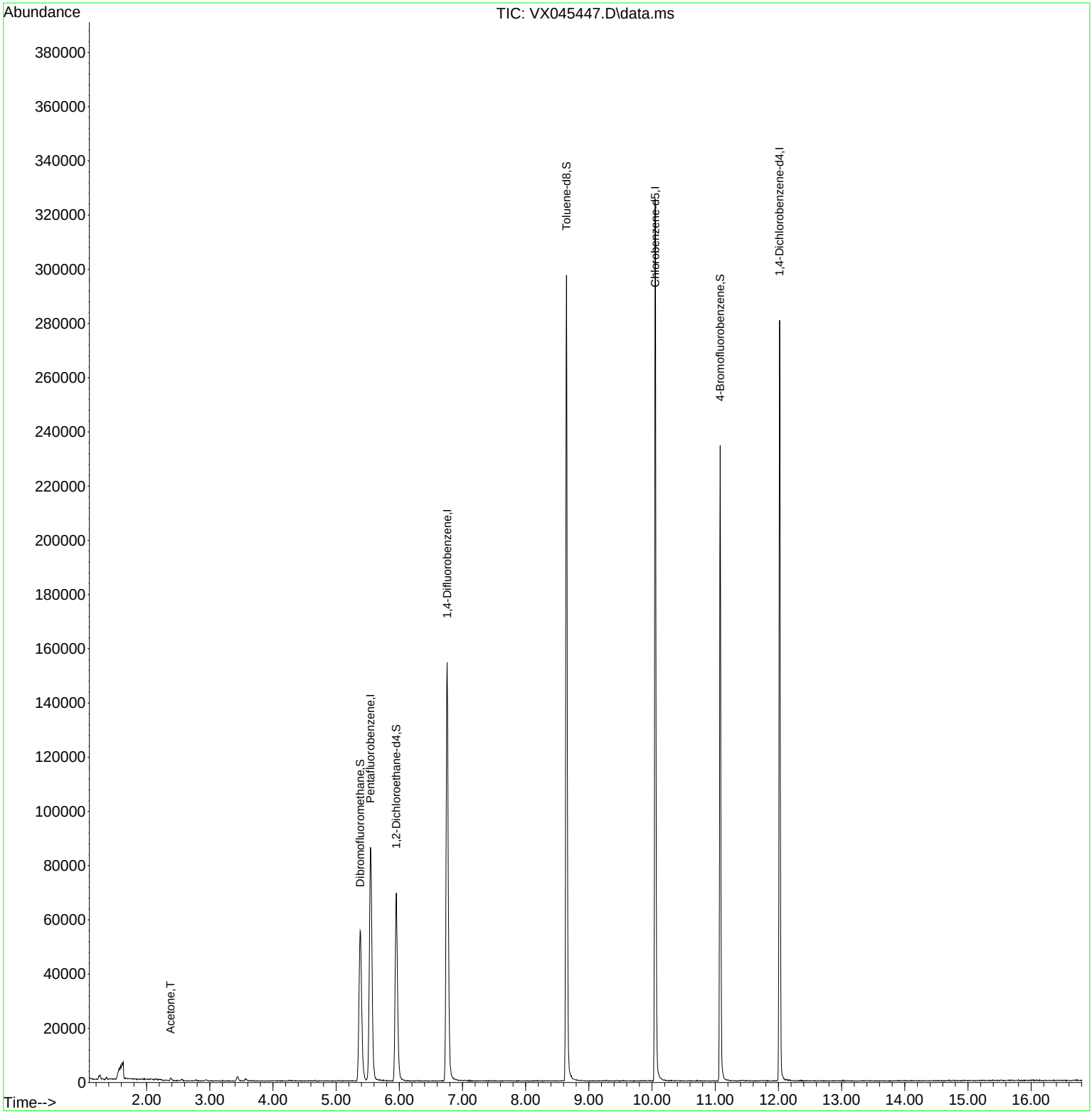
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	74720	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	146822	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	135722	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	52479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65712	55.288	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.580%			
35) Dibromofluoromethane	5.379	113	48763	49.669	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.340%			
50) Toluene-d8	8.646	98	170305	47.849	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.700%			
62) 4-Bromofluorobenzene	11.079	95	59751	50.661	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.320%			
Target Compounds						Qvalue
16) Acetone	2.379	43	1003	1.819	ug/l	96

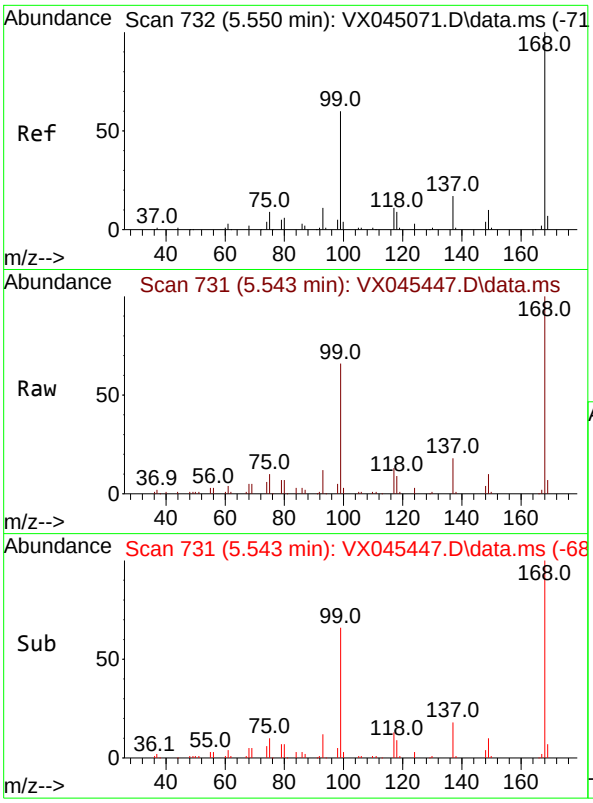
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045447.D
Acq On : 25 Mar 2025 17:55
Operator : JC/MD
Sample : Q1629-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D1-20250320

Quant Time: Mar 26 01:42:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



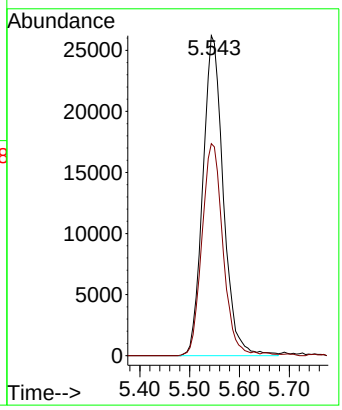


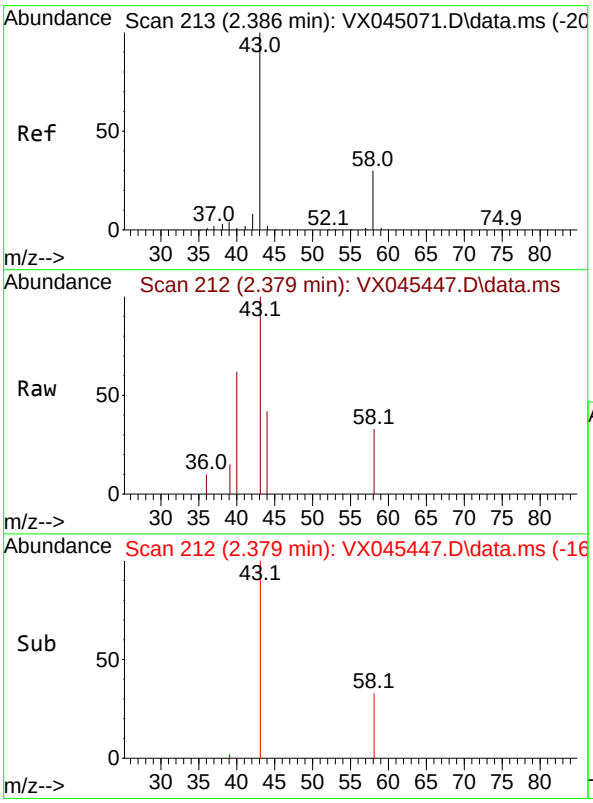
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D1-20250320

Tgt Ion:168 Resp: 74720

Ion	Ratio	Lower	Upper
168	100		
99	66.3	48.2	72.4

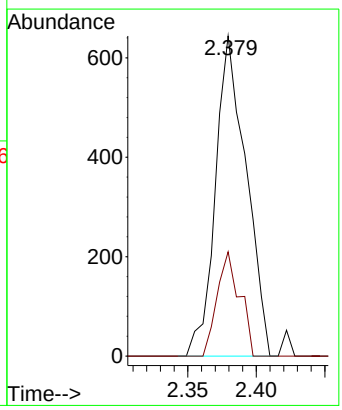


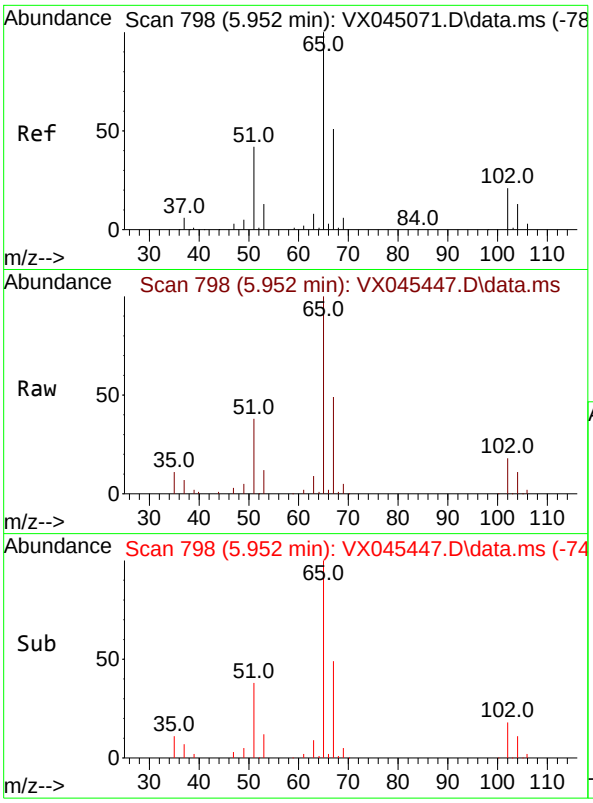


#16
Acetone
Concen: 1.819 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Tgt Ion: 43 Resp: 1003

Ion	Ratio	Lower	Upper
43	100		
58	32.6	24.2	36.4



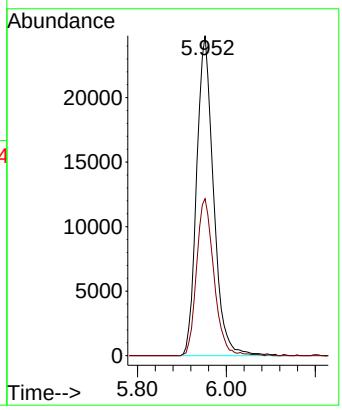


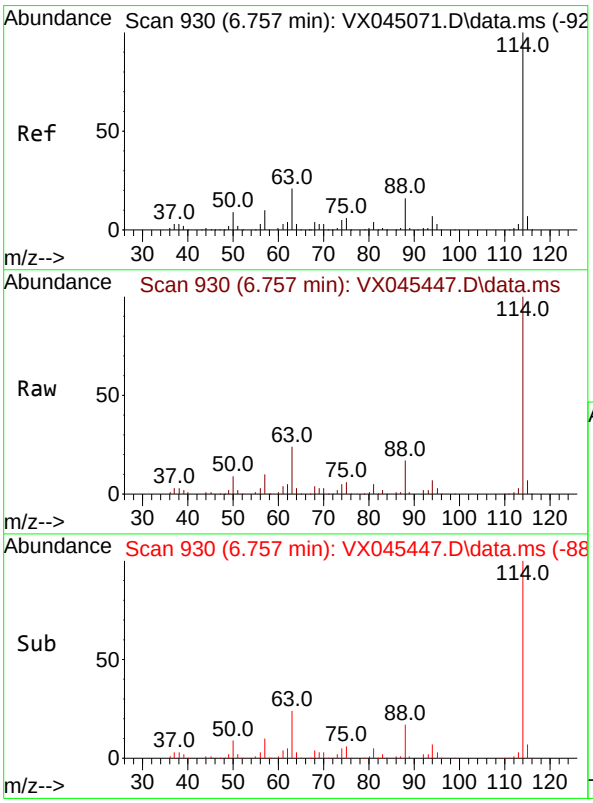
#33
1,2-Dichloroethane-d4
Concen: 55.288 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D1-20250320

Tgt Ion: 65 Resp: 65712

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	106.2

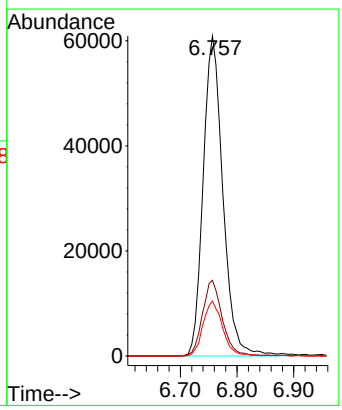


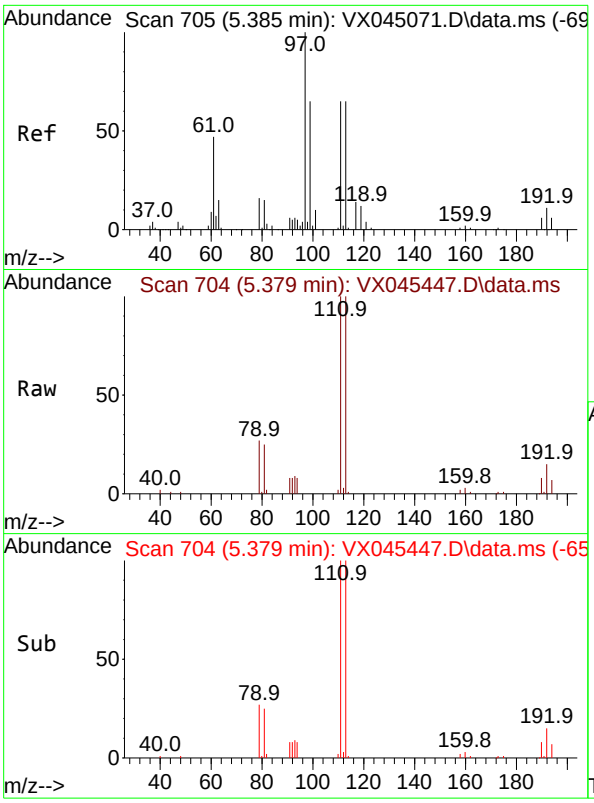


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Tgt Ion:114 Resp: 146822

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	41.8
88	17.1	0.0	32.8



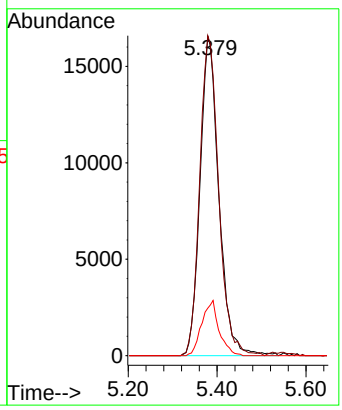


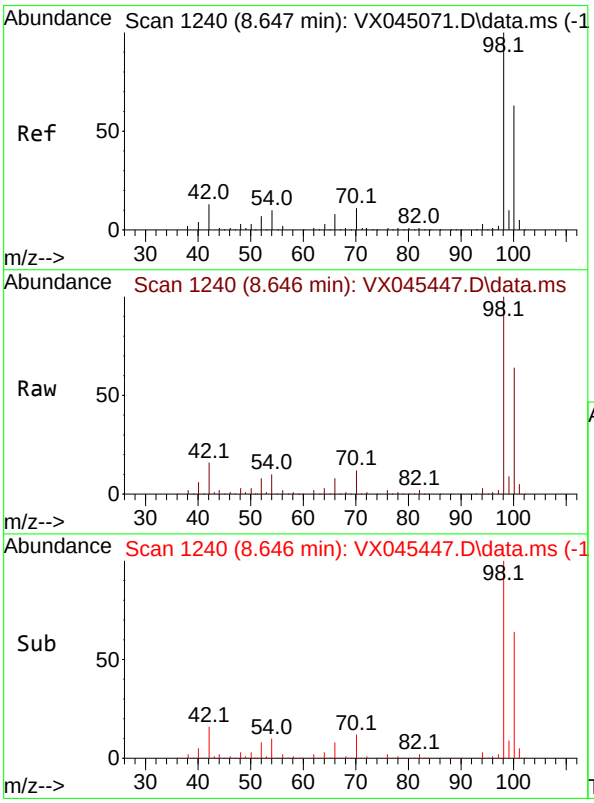
#35
Dibromofluoromethane
Concen: 49.669 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D1-20250320

Tgt Ion:113 Resp: 48763

Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.8	122.6
192	15.9	14.3	21.5

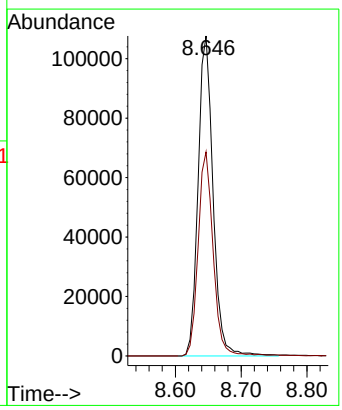


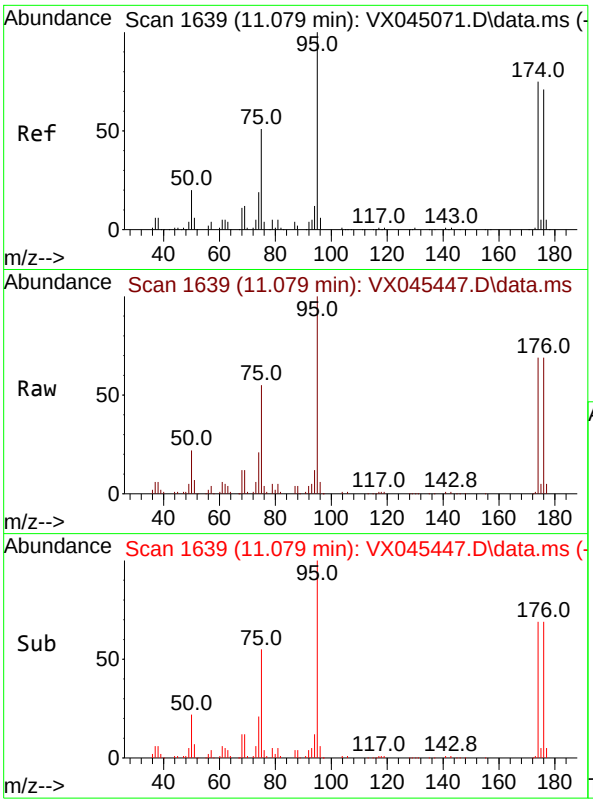


#50
Toluene-d8
Concen: 47.849 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Tgt Ion: 98 Resp: 170305

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.0	78.0



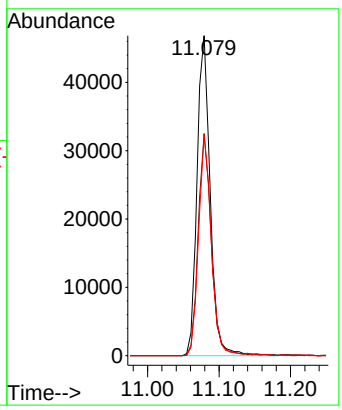


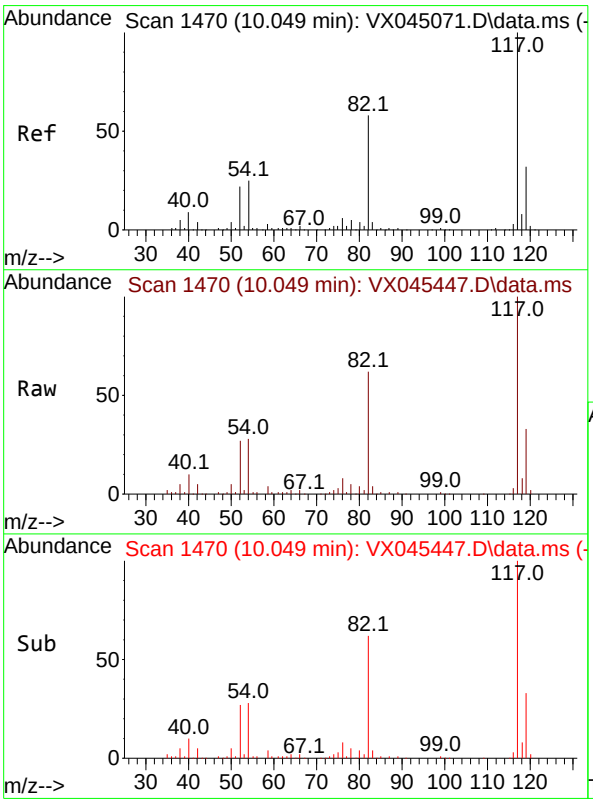
#62
4-Bromofluorobenzene
Concen: 50.661 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D1-20250320

Tgt Ion: 95 Resp: 59751

Ion	Ratio	Lower	Upper
95	100		
174	69.2	0.0	148.2
176	67.4	0.0	141.4

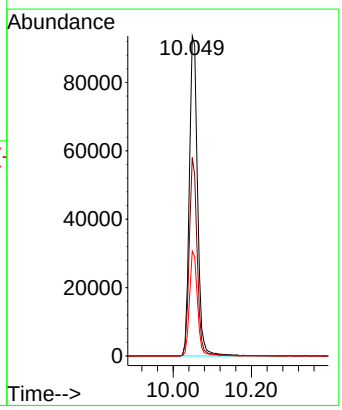


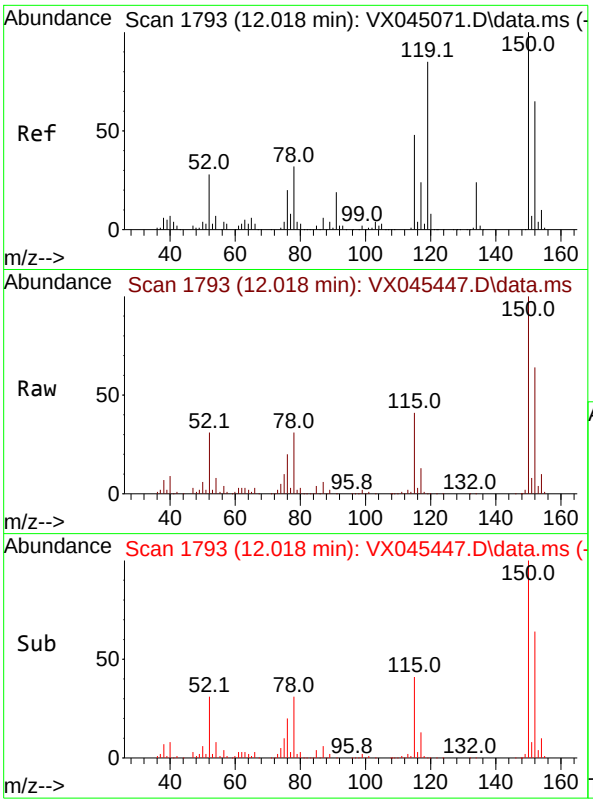


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Tgt Ion:117 Resp: 135722

Ion	Ratio	Lower	Upper
117	100		
82	62.0	46.3	69.5
119	32.8	25.7	38.5



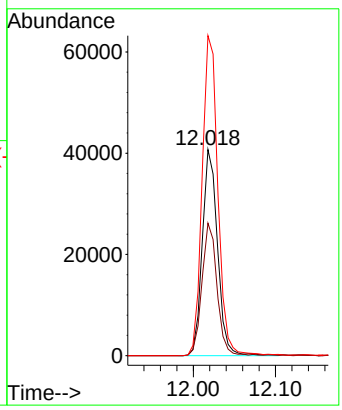


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045447.D
Acq: 25 Mar 2025 17:55

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D1-20250320

Tgt Ion:152 Resp: 52479

Ion	Ratio	Lower	Upper
152	100		
115	63.6	44.2	132.6
150	160.4	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D2-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045448.D	1		03/25/25 18:18	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.00	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D2-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045448.D	1		03/25/25 18:18	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.1		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	76200	5.55				
540-36-3	1,4-Difluorobenzene	148000	6.757				
3114-55-4	Chlorobenzene-d5	137000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	55200	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D2-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045448.D	1		03/25/25 18:18	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045448.D
Acq On : 25 Mar 2025 18:18
Operator : JC/MD
Sample : Q1629-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D2-20250320

Quant Time: Mar 26 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

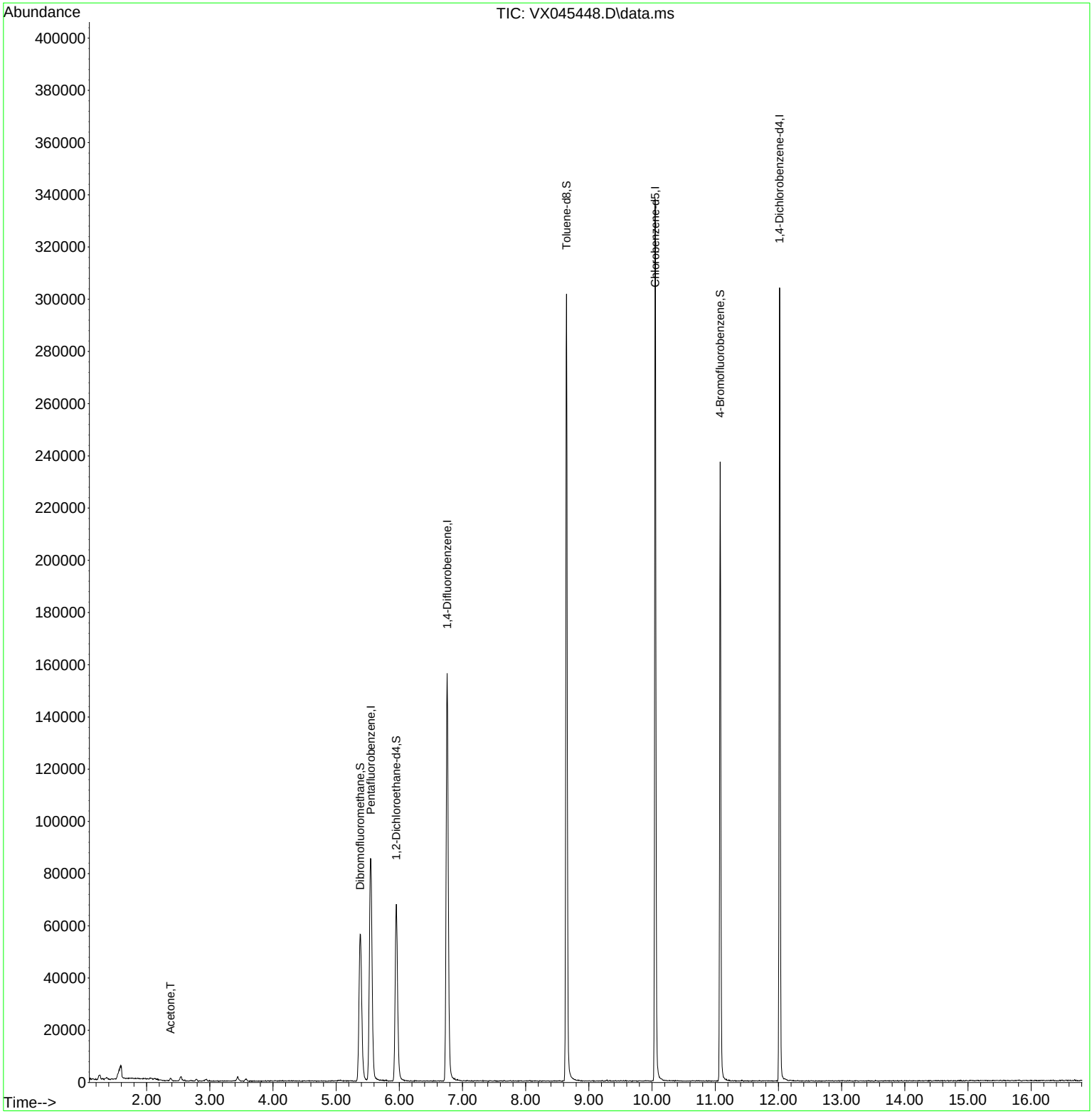
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	76218	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	148282	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	136799	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55234	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66774	55.078	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.160%			
35) Dibromofluoromethane	5.379	113	50152	50.581	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.160%			
50) Toluene-d8	8.647	98	175210	48.742	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.480%			
62) 4-Bromofluorobenzene	11.079	95	60123	50.475	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.940%			
Target Compounds						Qvalue
16) Acetone	2.380	43	1126	2.002	ug/l	94

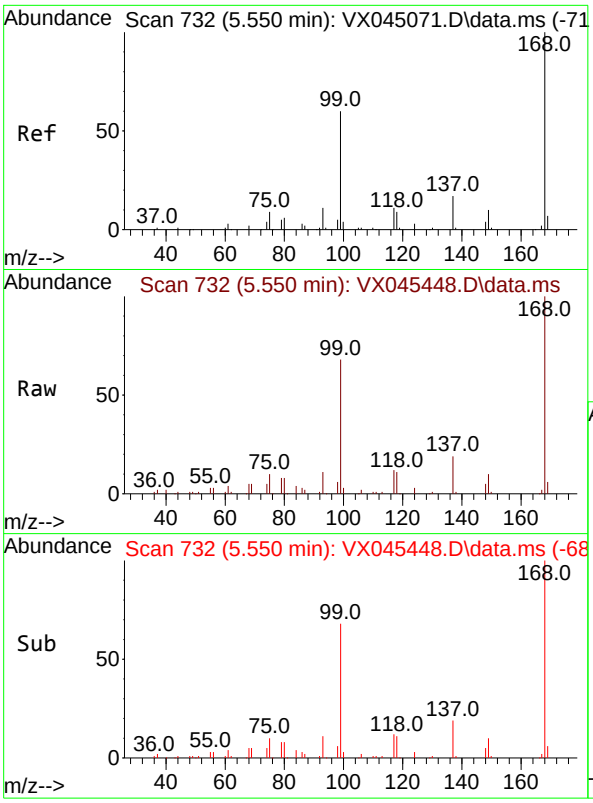
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045448.D
Acq On : 25 Mar 2025 18:18
Operator : JC/MD
Sample : Q1629-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D2-20250320

Quant Time: Mar 26 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



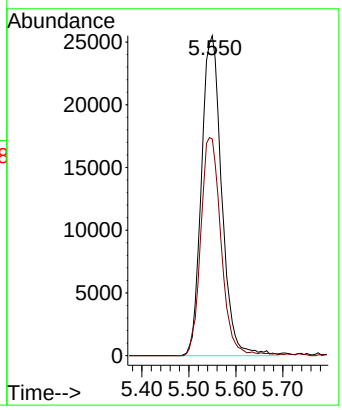


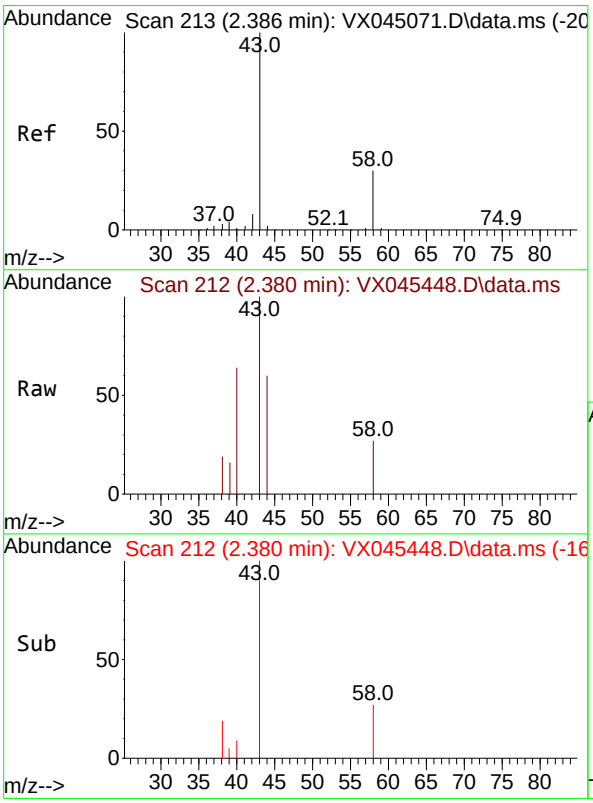
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D2-20250320

Tgt Ion:168 Resp: 76218

Ion	Ratio	Lower	Upper
168	100		
99	67.8	48.2	72.4

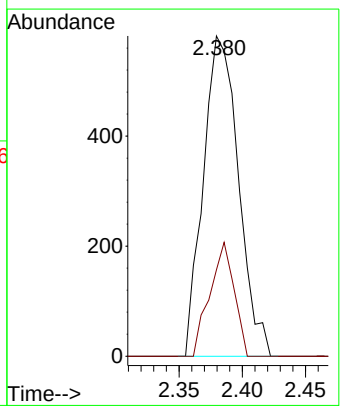


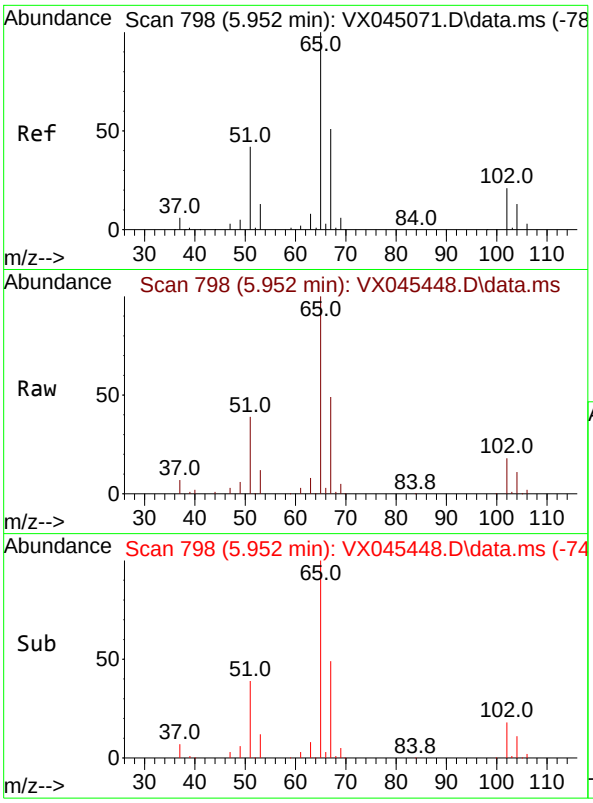


#16
Acetone
Concen: 2.002 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Tgt Ion: 43 Resp: 1126

Ion	Ratio	Lower	Upper
43	100		
58	27.0	24.2	36.4



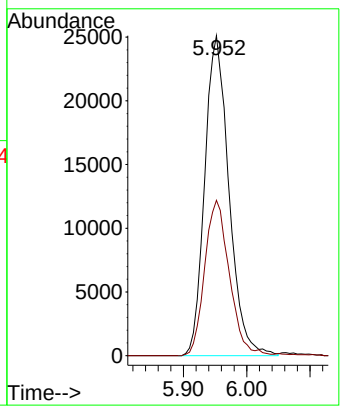


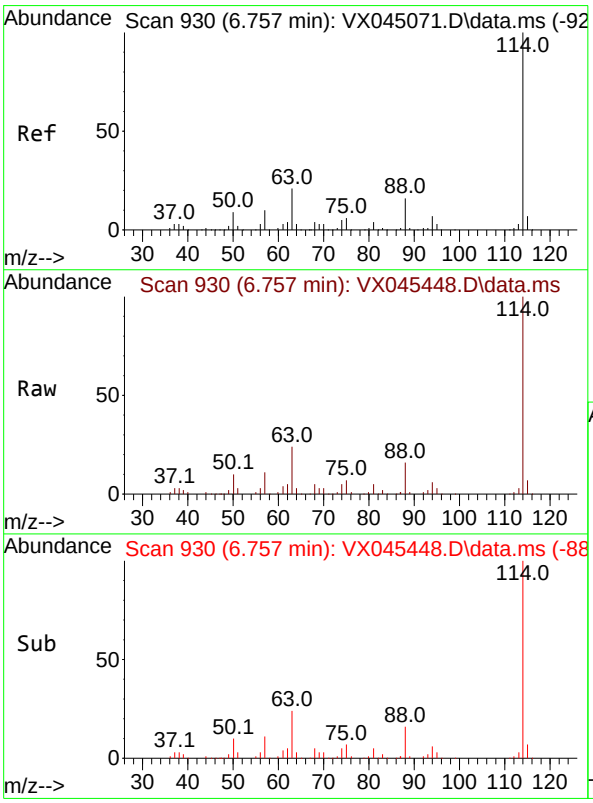
#33
1,2-Dichloroethane-d4
Concen: 55.078 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D2-20250320

Tgt Ion: 65 Resp: 66774

Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	106.2

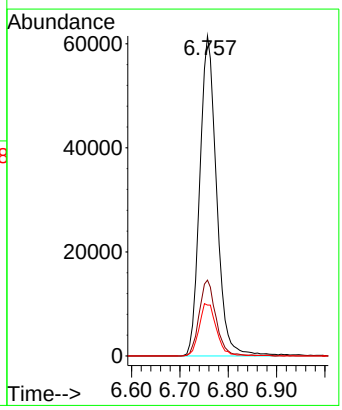


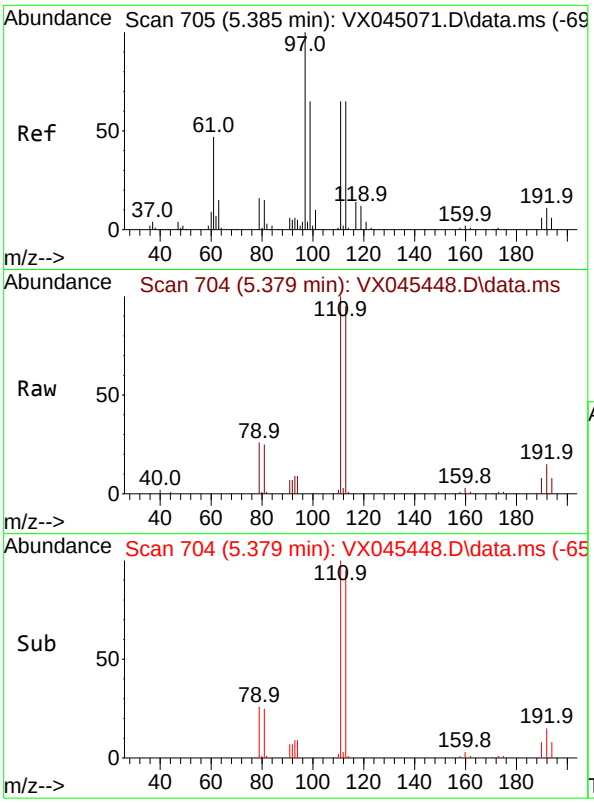


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Tgt Ion:114 Resp: 148282

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	41.8
88	15.9	0.0	32.8



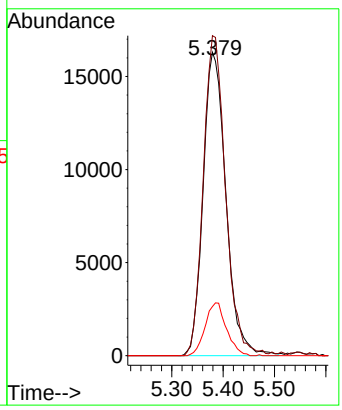


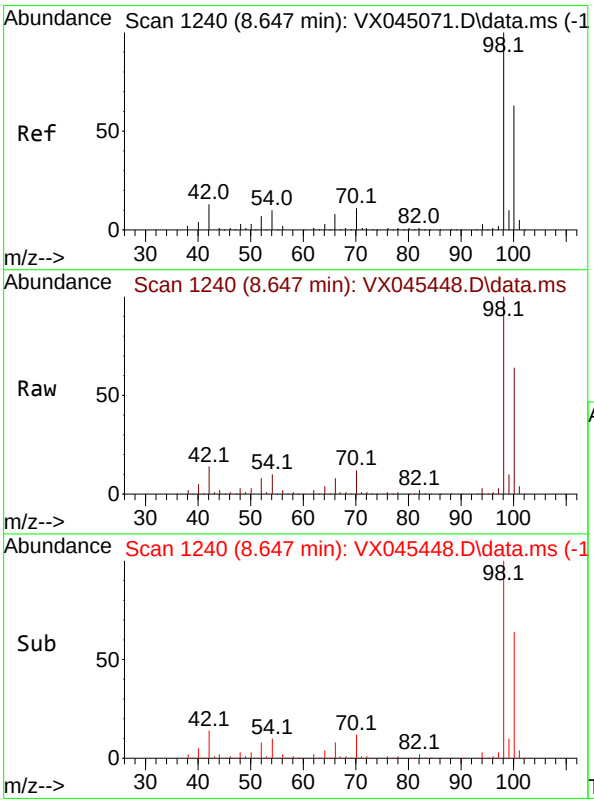
#35
Dibromofluoromethane
Concen: 50.581 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D2-20250320

Tgt Ion:113 Resp: 50152

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.8	122.6
192	16.3	14.3	21.5

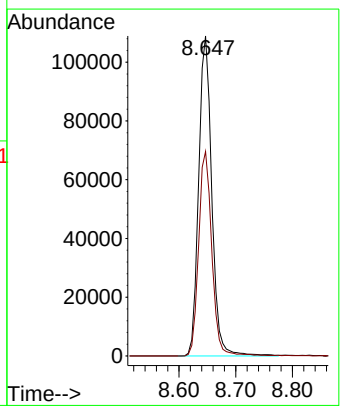


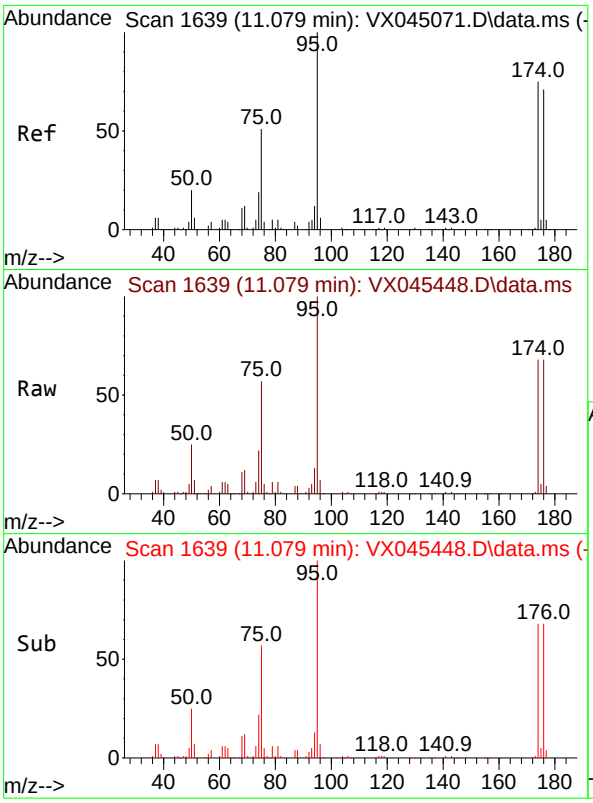


#50
Toluene-d8
Concen: 48.742 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Tgt Ion: 98 Resp: 175210

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.0	78.0



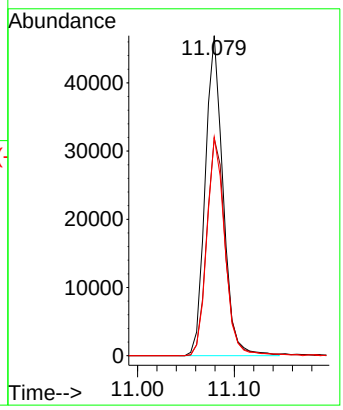


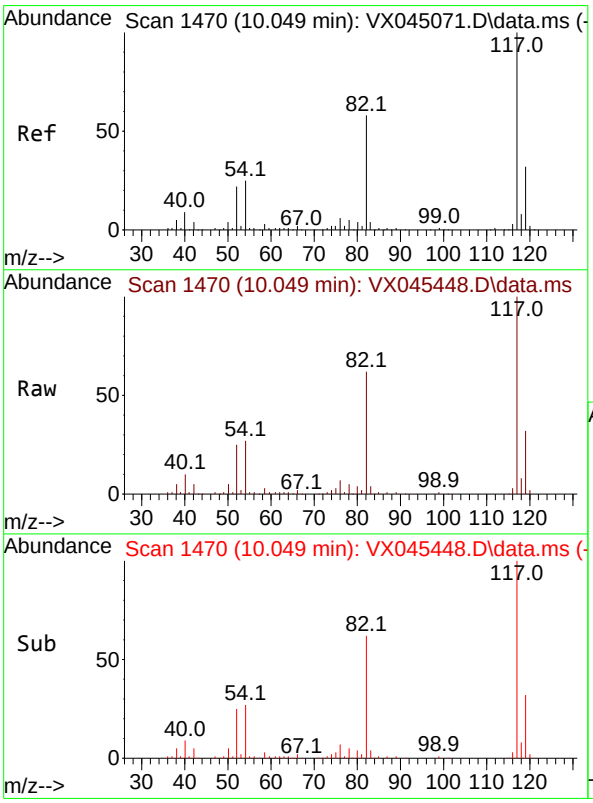
#62
4-Bromofluorobenzene
Concen: 50.475 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D2-20250320

Tgt Ion: 95 Resp: 60123

Ion	Ratio	Lower	Upper
95	100		
174	70.9	0.0	148.2
176	69.0	0.0	141.4

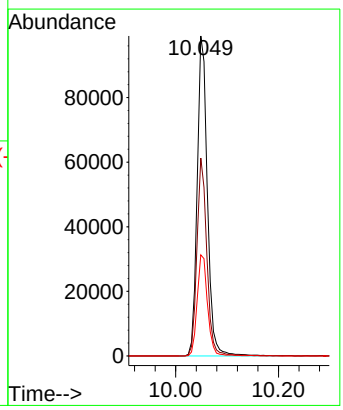


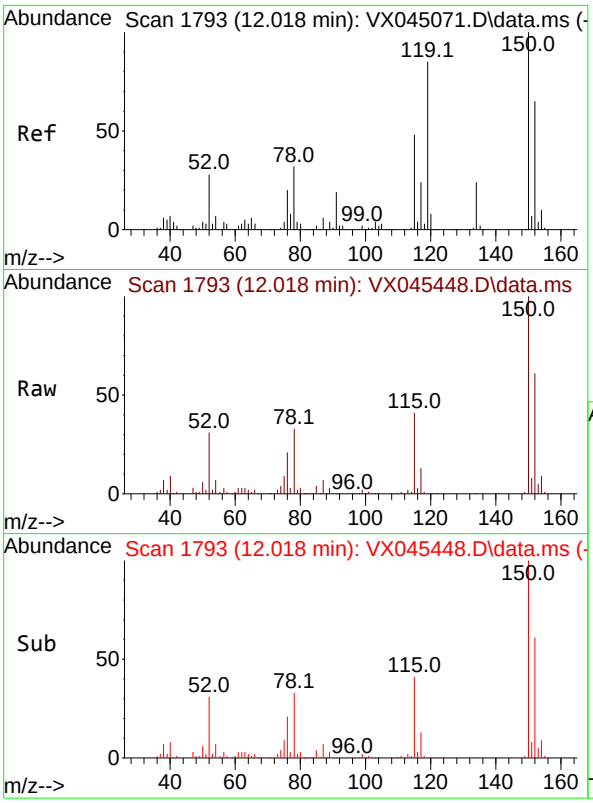


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Tgt Ion:117 Resp: 136799

Ion	Ratio	Lower	Upper
117	100		
82	61.8	46.3	69.5
119	31.6	25.7	38.5



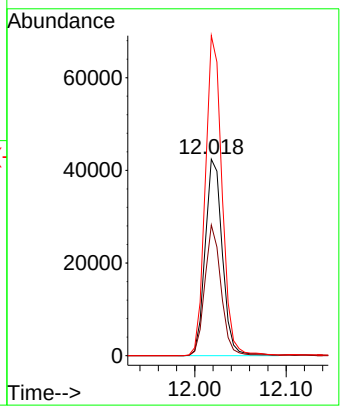


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045448.D
Acq: 25 Mar 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D2-20250320

Tgt Ion:152 Resp: 55234

Ion	Ratio	Lower	Upper
152	100		
115	63.2	44.2	132.6
150	158.0	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D3-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045449.D	1		03/25/25 18:41	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D3-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045449.D	1		03/25/25 18:41	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	48.0		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	71700	5.544				
540-36-3	1,4-Difluorobenzene	137000	6.757				
3114-55-4	Chlorobenzene-d5	129000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	54400	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01D3-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045449.D	1		03/25/25 18:41	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045449.D
Acq On : 25 Mar 2025 18:41
Operator : JC/MD
Sample : Q1629-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D3-20250320

Quant Time: Mar 26 01:43:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

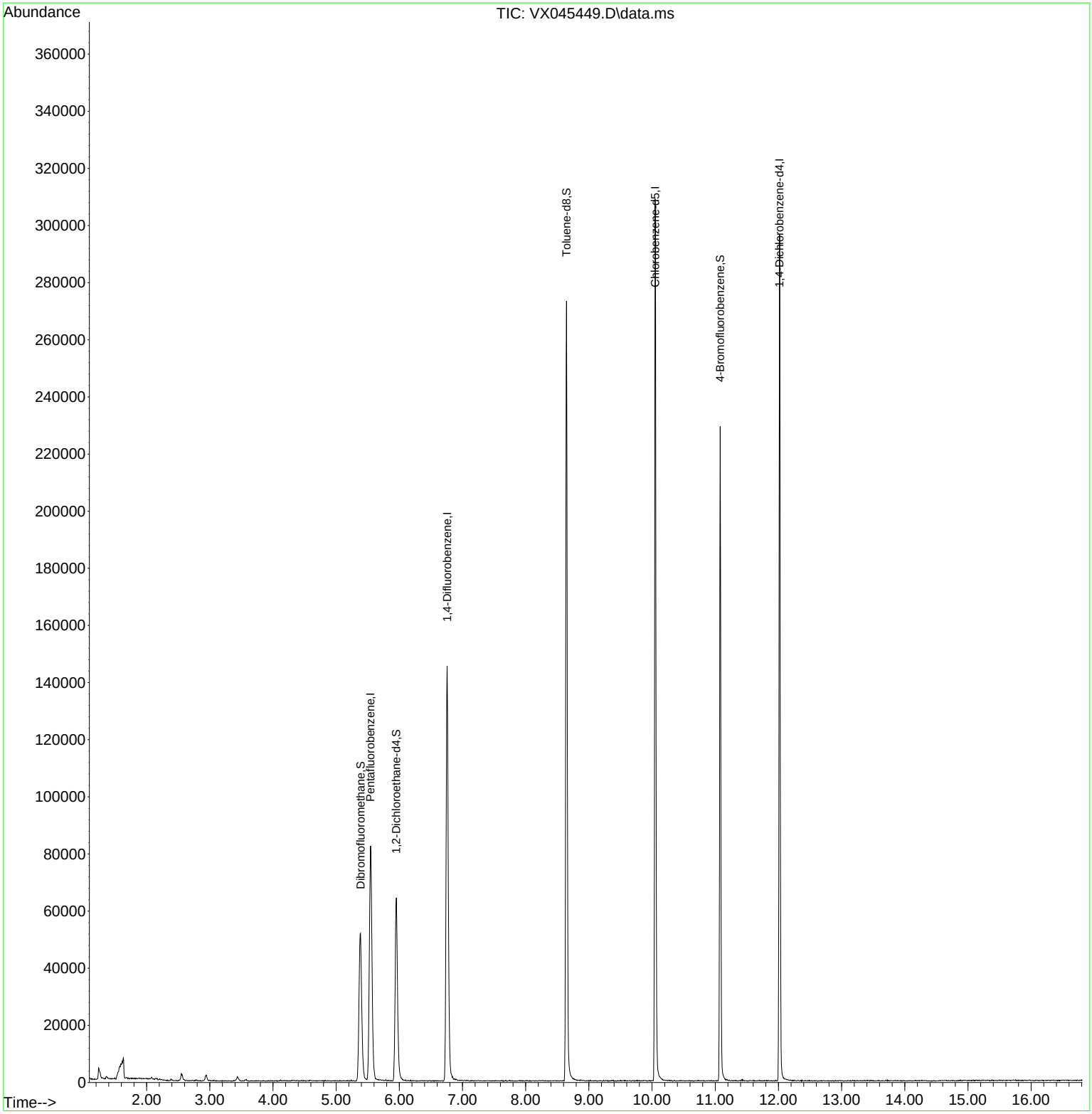
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	71670	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	137481	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129073	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	54362	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60622	53.176	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.360%			
35) Dibromofluoromethane	5.385	113	45171	49.136	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.280%			
50) Toluene-d8	8.647	98	159922	47.985	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.960%			
62) 4-Bromofluorobenzene	11.079	95	57139	51.738	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.480%			
Target Compounds						Qvalue

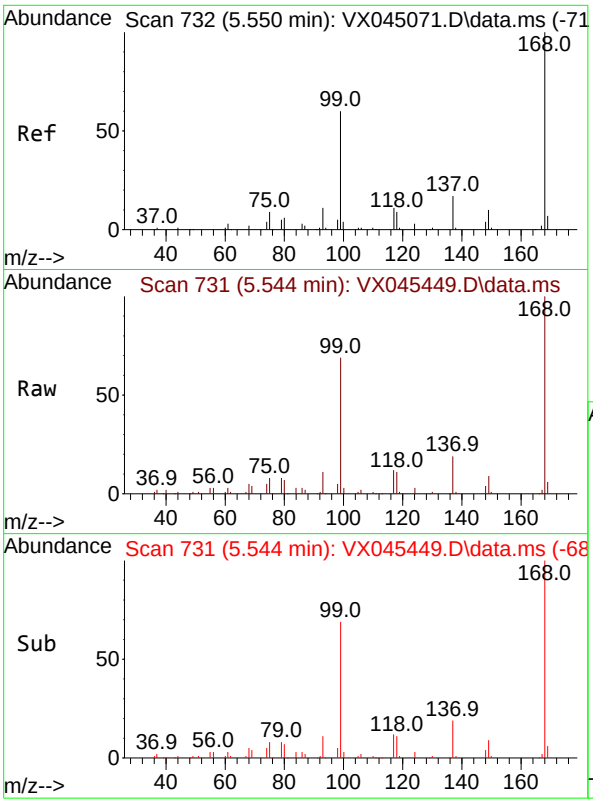
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045449.D
Acq On : 25 Mar 2025 18:41
Operator : JC/MD
Sample : Q1629-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D3-20250320

Quant Time: Mar 26 01:43:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



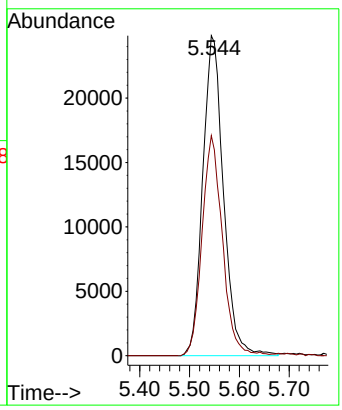


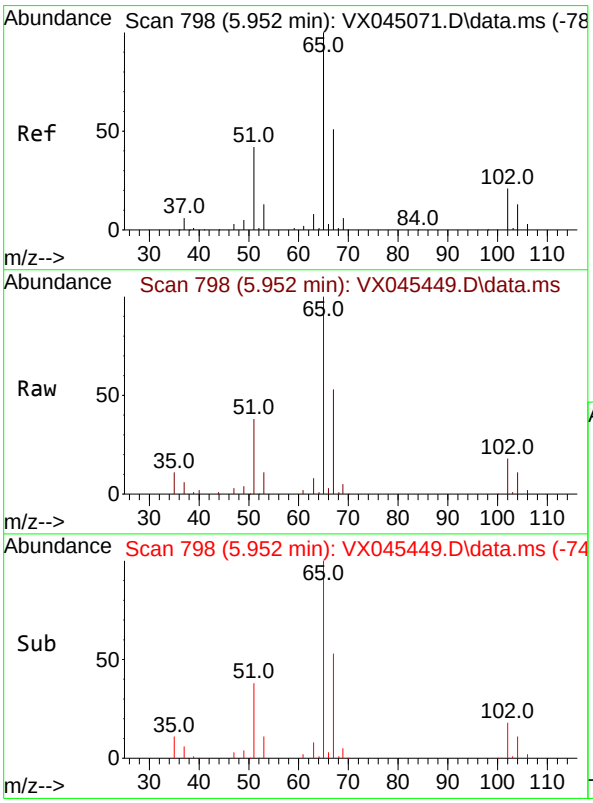
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D3-20250320

Tgt Ion:168 Resp: 71670

Ion	Ratio	Lower	Upper
168	100		
99	68.8	48.2	72.4

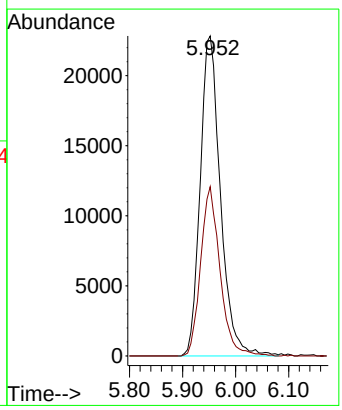


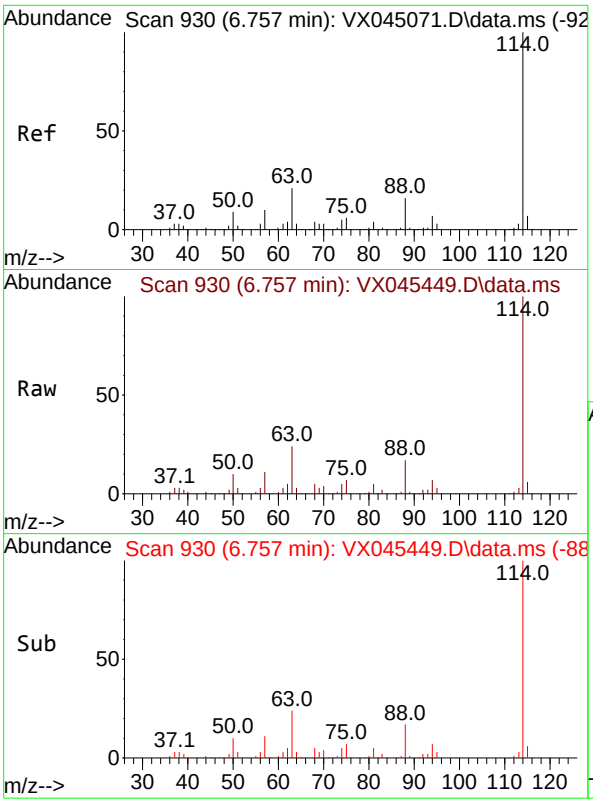


#33
1,2-Dichloroethane-d4
Concen: 53.176 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Tgt Ion: 65 Resp: 60622

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	106.2



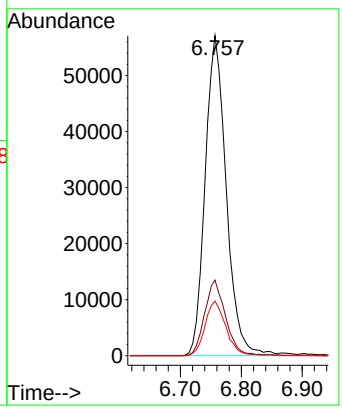


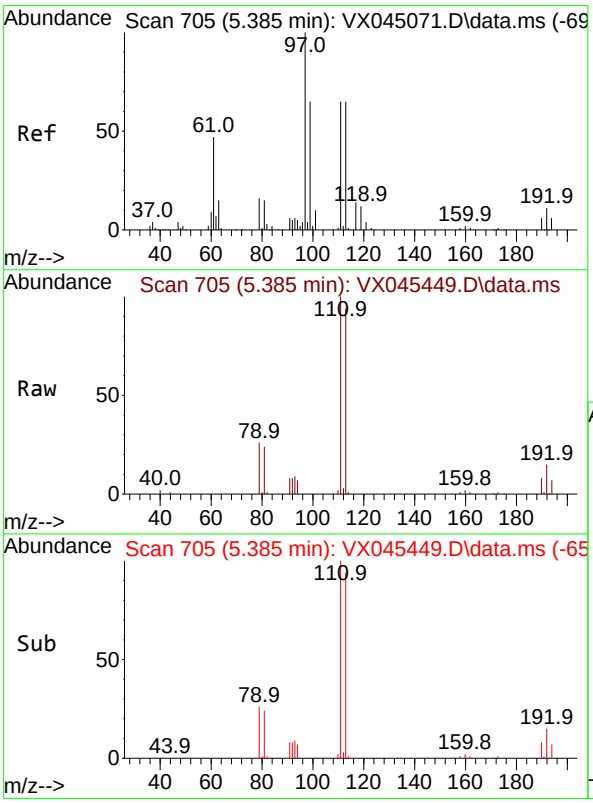
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D3-20250320

Tgt Ion:114 Resp: 137481

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	41.8
88	17.1	0.0	32.8

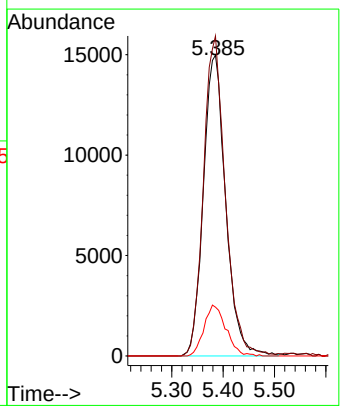


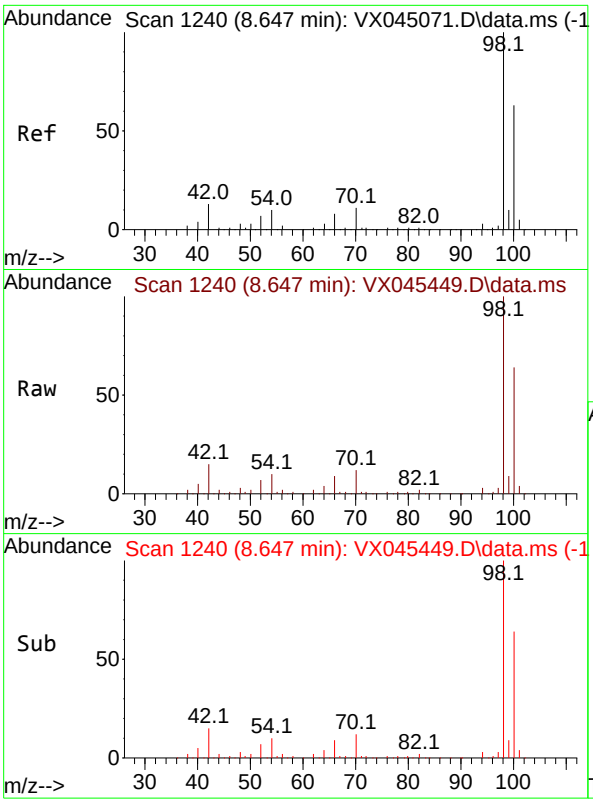


#35
Dibromofluoromethane
Concen: 49.136 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Tgt Ion:113 Resp: 45171

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	16.7	14.3	21.5



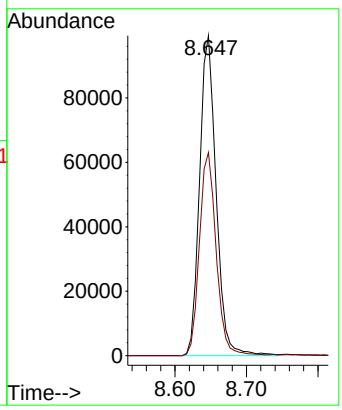


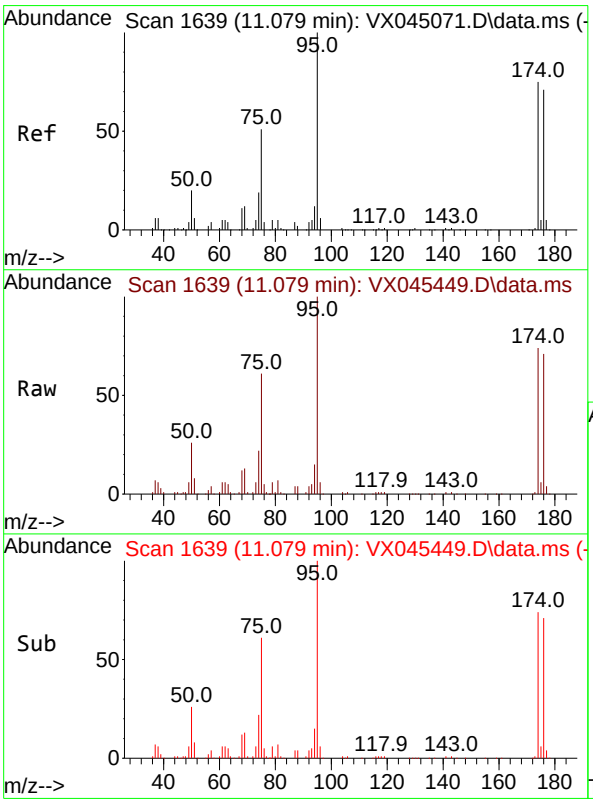
#50
Toluene-d8
Concen: 47.985 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D3-20250320

Tgt Ion: 98 Resp: 159922

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.0	78.0

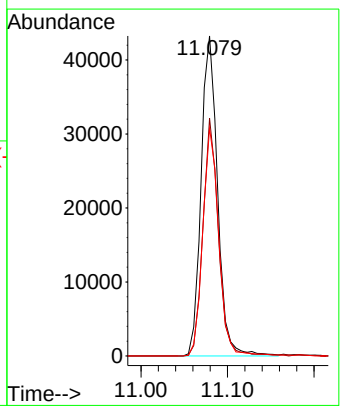


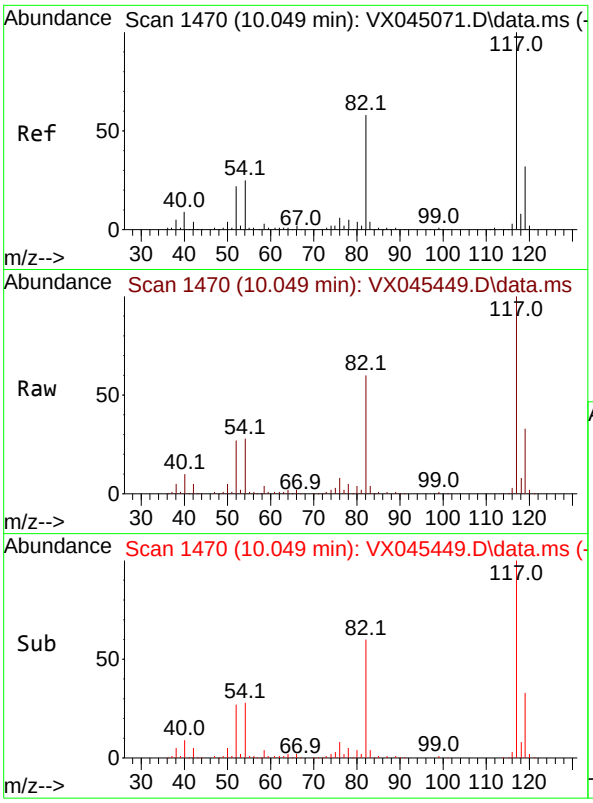


#62
4-Bromofluorobenzene
Concen: 51.738 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Tgt Ion: 95 Resp: 57139

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	148.2
176	69.2	0.0	141.4



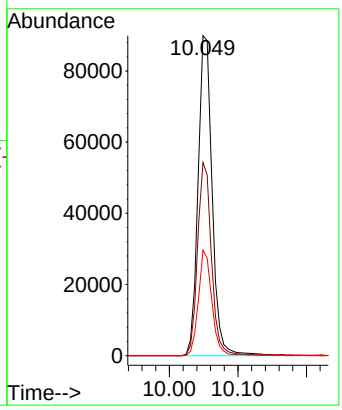


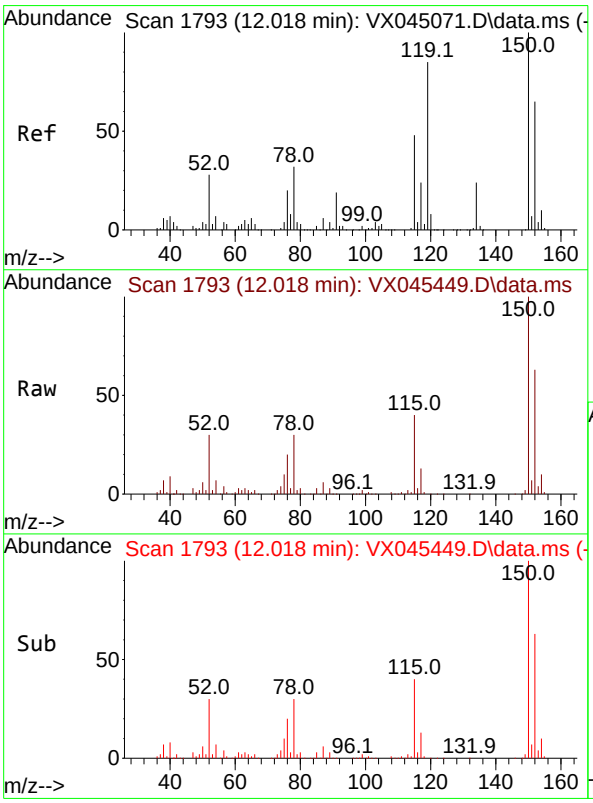
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01D3-20250320

Tgt Ion:117 Resp: 129073

Ion	Ratio	Lower	Upper
117	100		
82	60.4	46.3	69.5
119	33.0	25.7	38.5

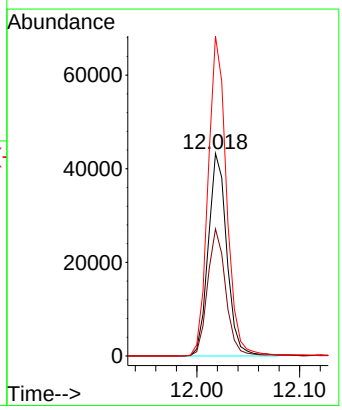




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045449.D
Acq: 25 Mar 2025 18:41

Tgt Ion:152 Resp: 54362

Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.2	132.6
150	156.9	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT150S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045450.D	1		03/25/25 19:05	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.50	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	11.6		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT150S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045450.D	1		03/25/25 19:05	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	1.10		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.6		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	47.3		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	72000	5.55				
540-36-3	1,4-Difluorobenzene	142000	6.757				
3114-55-4	Chlorobenzene-d5	131000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	55200	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT150S1-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045450.D	1		03/25/25 19:05	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045450.D
Acq On : 25 Mar 2025 19:05
Operator : JC/MD
Sample : Q1629-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Quant Time: Mar 26 01:43:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

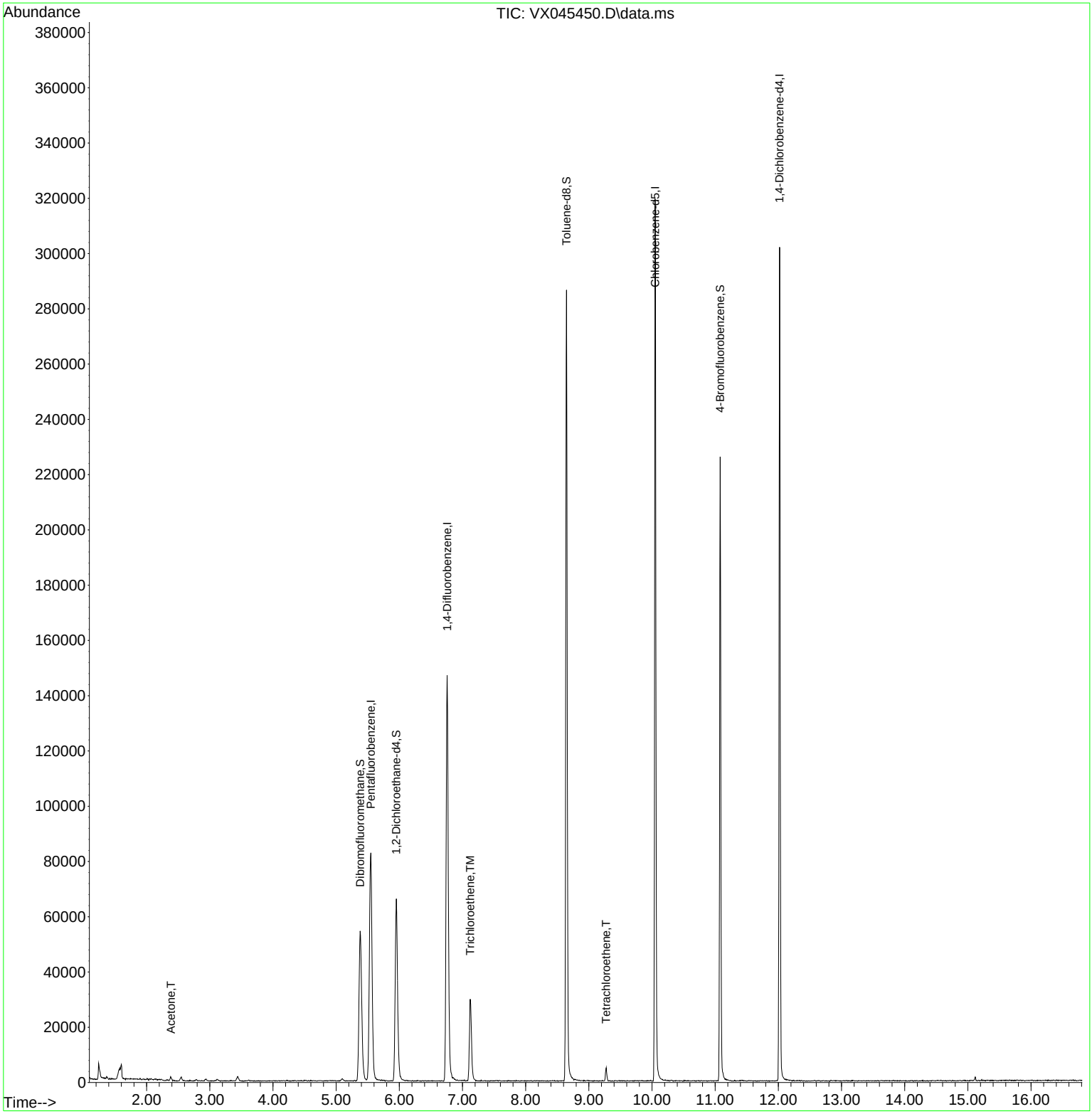
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	71974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	142479	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	130670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55180	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62550	54.636	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.280%			
35) Dibromofluoromethane	5.379	113	47321	49.669	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.340%			
50) Toluene-d8	8.647	98	163441	47.320	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.640%			
62) 4-Bromofluorobenzene	11.079	95	58211	50.860	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.720%			
Target Compounds						Qvalue
16) Acetone	2.386	43	1314	2.474	ug/l	94
44) Trichloroethene	7.123	130	11230	11.592	ug/l	92
64) Tetrachloroethene	9.275	164	885	1.057	ug/l	84

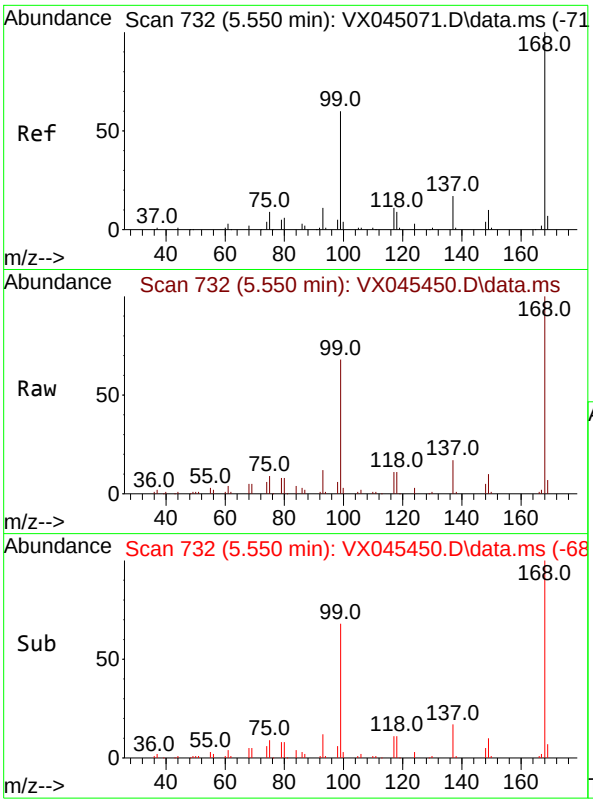
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045450.D
Acq On : 25 Mar 2025 19:05
Operator : JC/MD
Sample : Q1629-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Quant Time: Mar 26 01:43:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



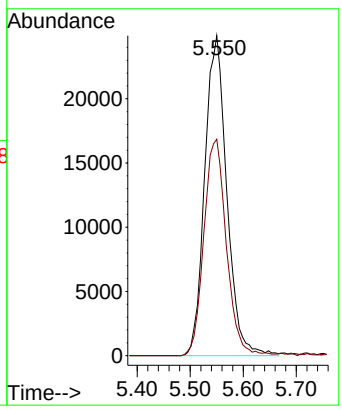


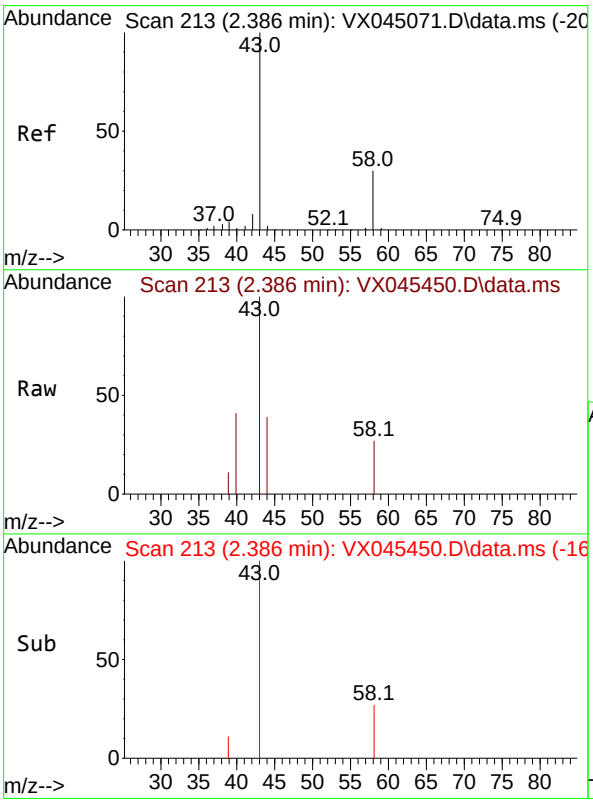
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Tgt Ion:168 Resp: 71974

Ion	Ratio	Lower	Upper
168	100		
99	67.7	48.2	72.4

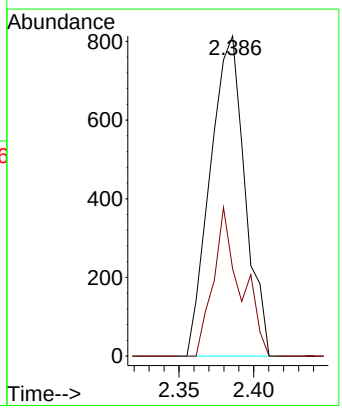


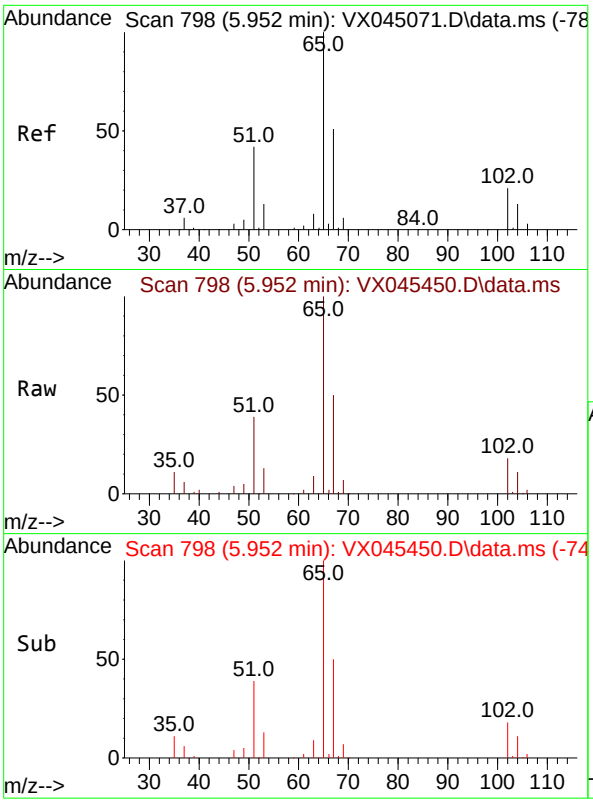


#16
Acetone
Concen: 2.474 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Tgt Ion: 43 Resp: 1314

Ion	Ratio	Lower	Upper
43	100		
58	27.3	24.2	36.4



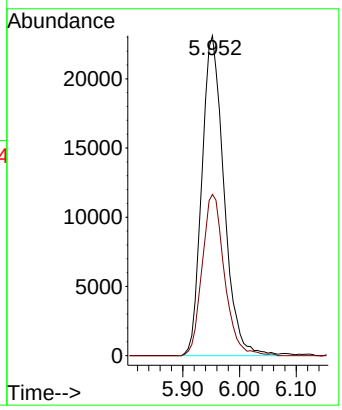


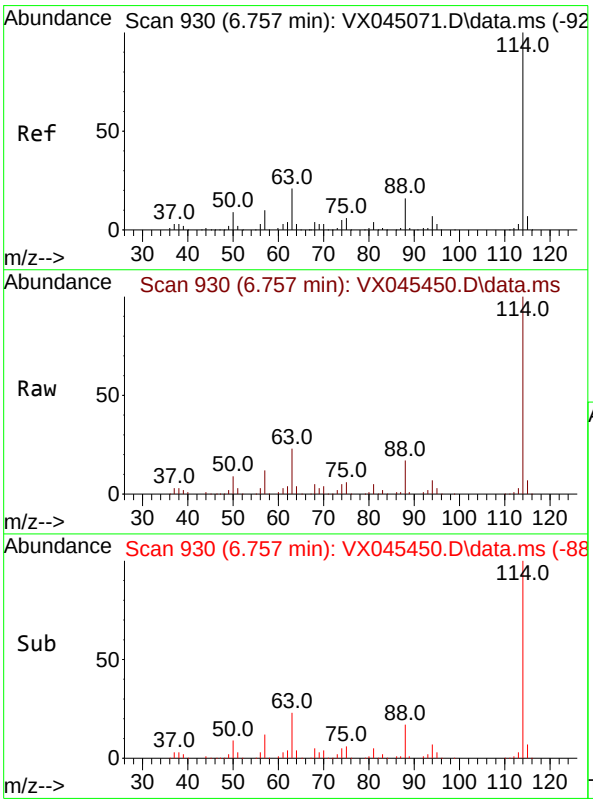
#33
1,2-Dichloroethane-d4
Concen: 54.636 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Tgt Ion: 65 Resp: 62550

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	106.2

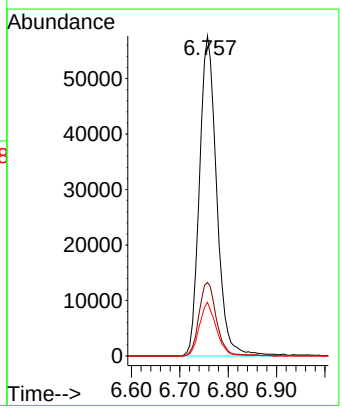


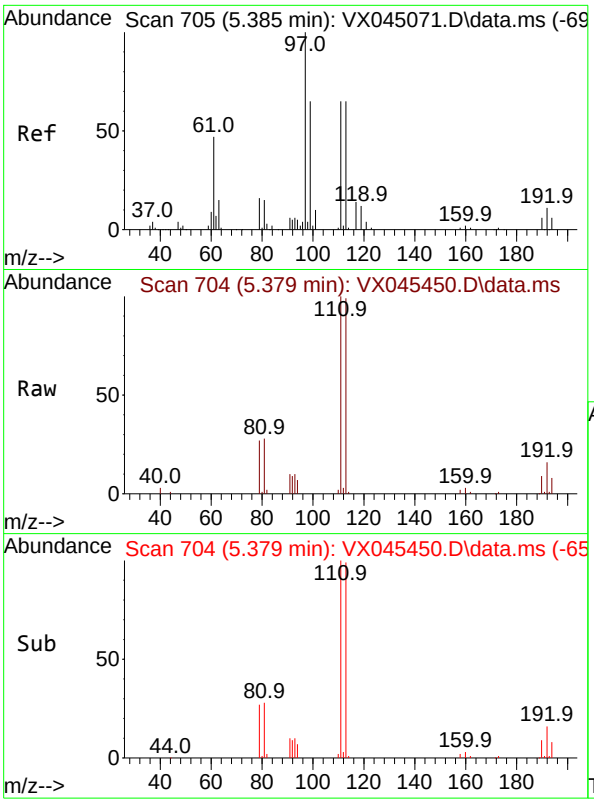


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Tgt Ion:114 Resp: 142479

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	41.8
88	16.8	0.0	32.8



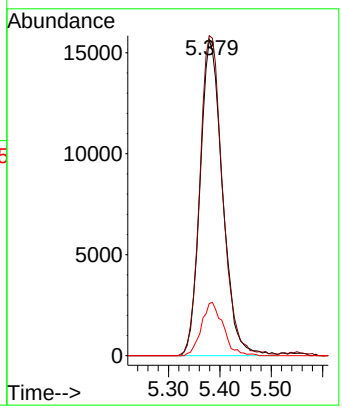


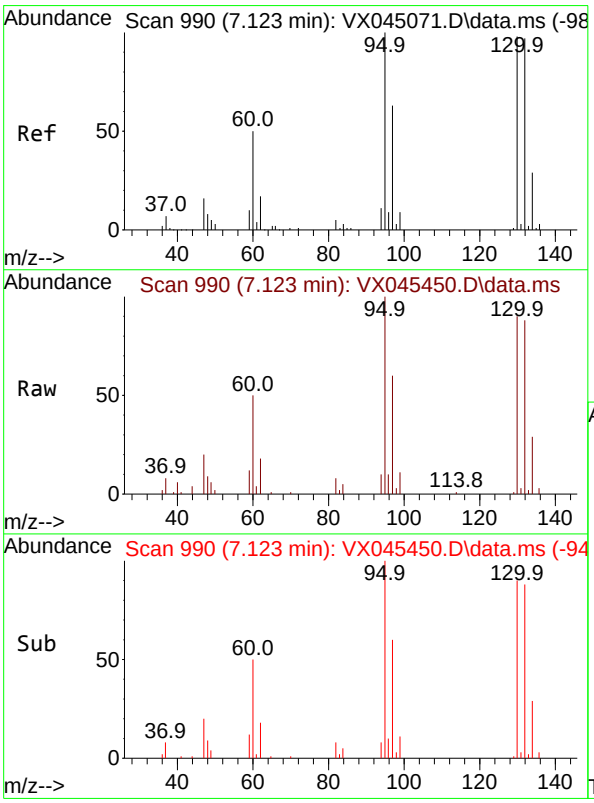
#35
Dibromofluoromethane
Concen: 49.669 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Tgt Ion:113 Resp: 47321

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.8	122.6
192	16.4	14.3	21.5

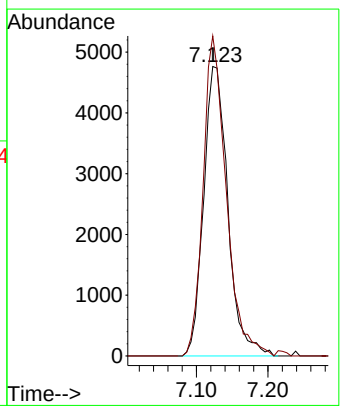


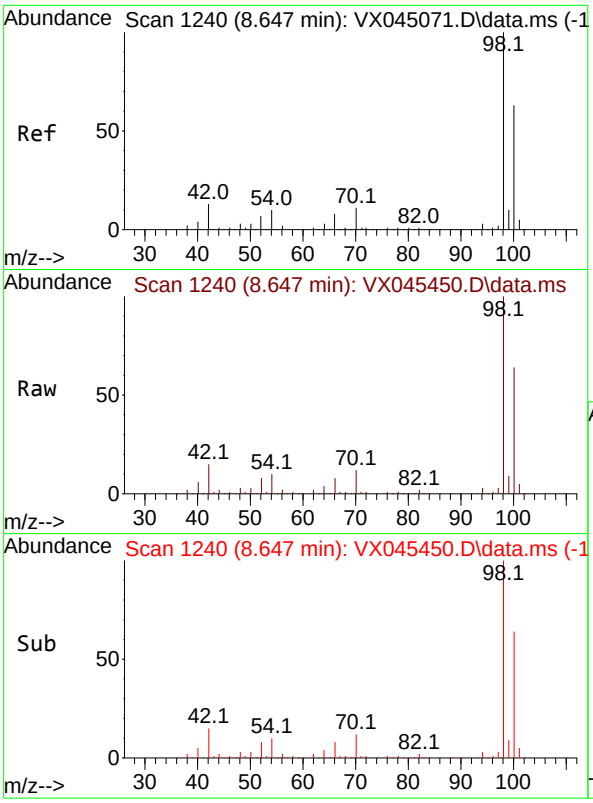


#44
Trichloroethene
Concen: 11.592 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Tgt Ion:130 Resp: 11230

Ion	Ratio	Lower	Upper
130	100		
95	110.5	0.0	205.0



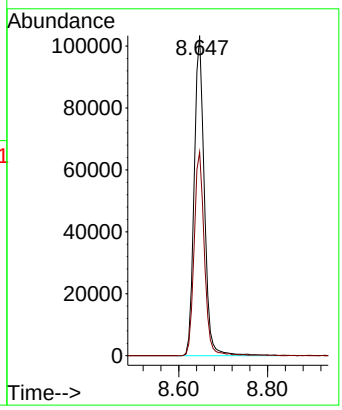


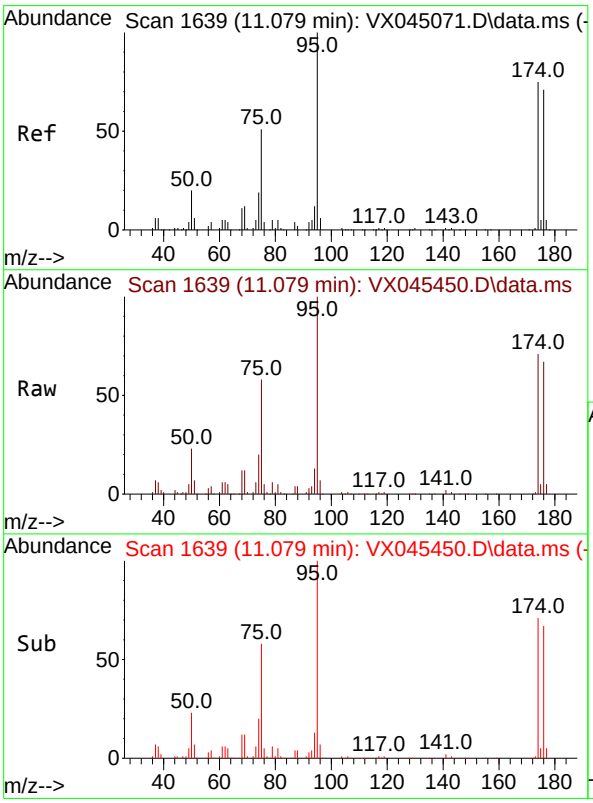
#50
Toluene-d8
Concen: 47.320 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Tgt Ion: 98 Resp: 163441

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.0	78.0

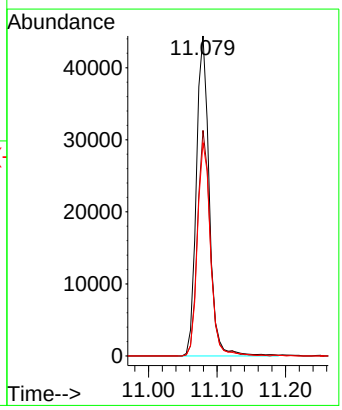


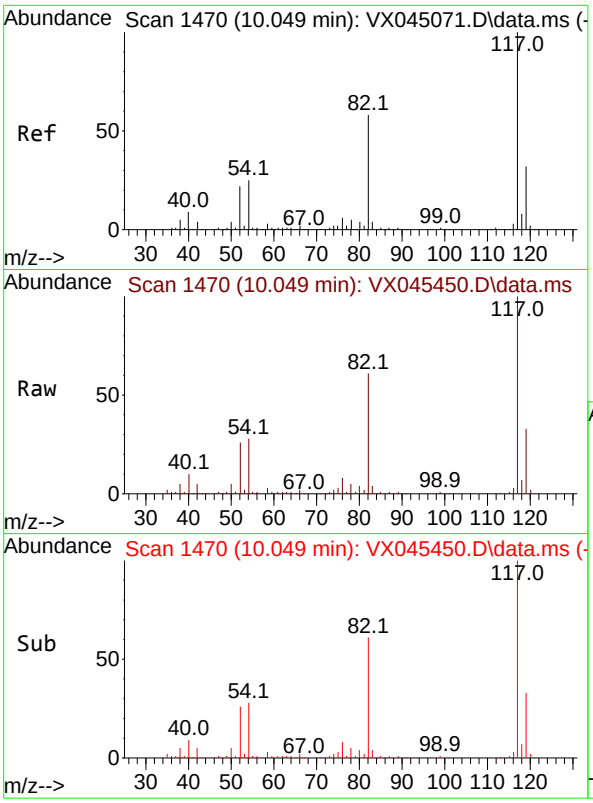


#62
4-Bromofluorobenzene
Concen: 50.860 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Tgt Ion: 95 Resp: 58211

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	148.2
176	67.6	0.0	141.4



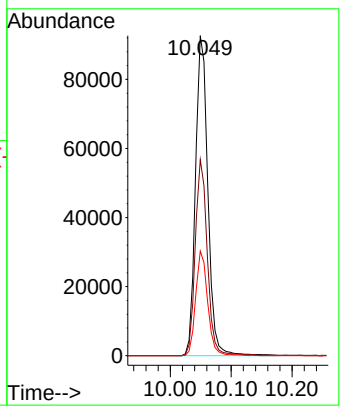


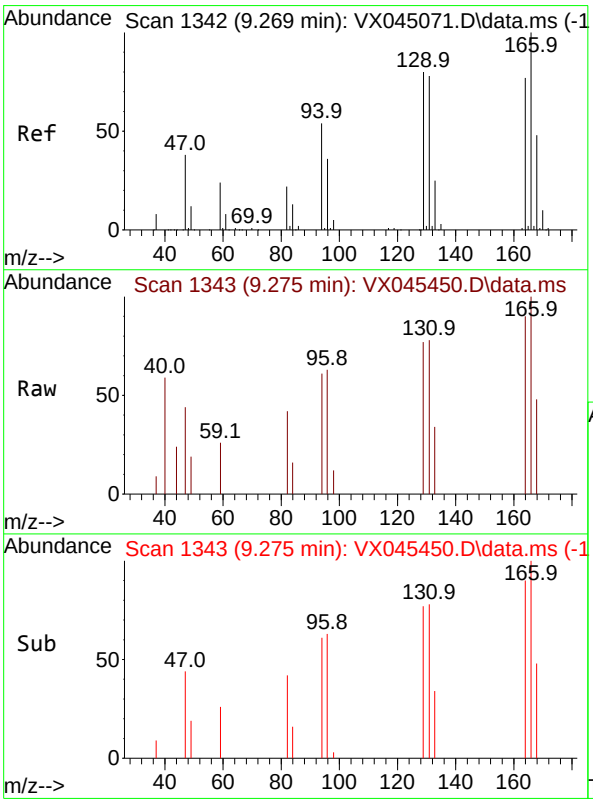
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Tgt Ion:117 Resp: 130670

Ion	Ratio	Lower	Upper
117	100		
82	61.2	46.3	69.5
119	32.7	25.7	38.5

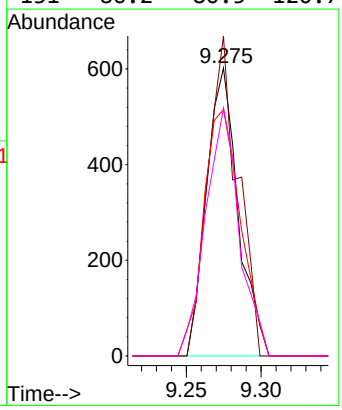


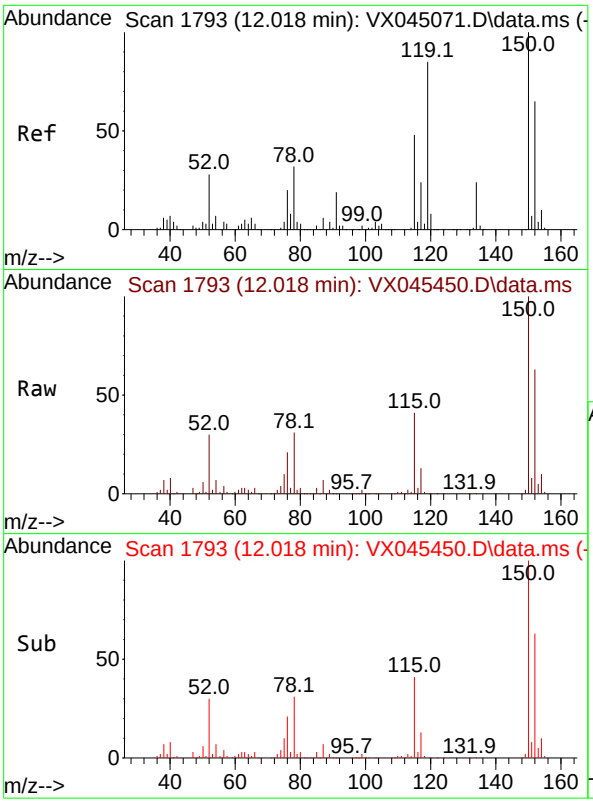


#64
Tetrachloroethene
Concen: 1.057 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Tgt Ion:164 Resp: 885

Ion	Ratio	Lower	Upper
164	100		
166	111.1	103.6	155.4
129	85.5	82.7	124.1
131	86.2	80.5	120.7



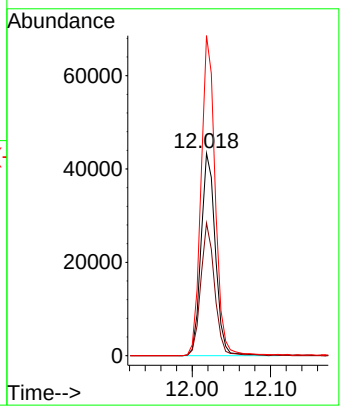


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045450.D
Acq: 25 Mar 2025 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT150S1-20250320

Tgt Ion:152 Resp: 55180

Ion	Ratio	Lower	Upper
152	100		
115	63.4	44.2	132.6
150	156.3	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/21/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	FB03-20250321	SDG No.:	Q1629
Lab Sample ID:	Q1629-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045444.D	1		03/25/25 16:46	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.00	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/21/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	FB03-20250321	SDG No.:	Q1629
Lab Sample ID:	Q1629-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045444.D	1		03/25/25 16:46	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.4		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	47.9		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	71100	5.544				
540-36-3	1,4-Difluorobenzene	141000	6.757				
3114-55-4	Chlorobenzene-d5	130000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49200	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/21/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	FB03-20250321	SDG No.:	Q1629
Lab Sample ID:	Q1629-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045444.D	1		03/25/25 16:46	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045444.D
Acq On : 25 Mar 2025 16:46
Operator : JC/MD
Sample : Q1629-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB03-20250321

Quant Time: Mar 26 01:41:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

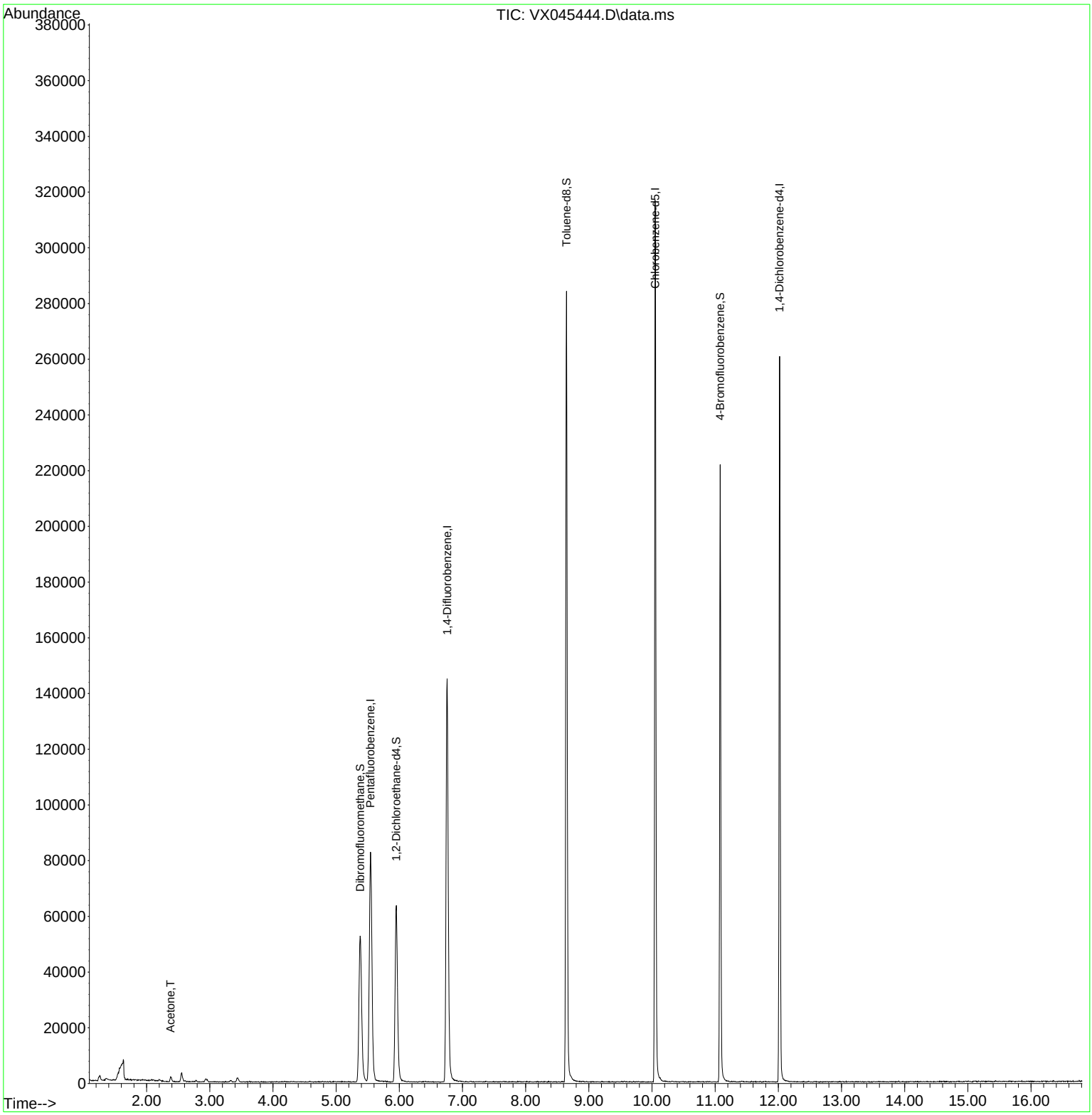
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	71073	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	141090	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129742	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49151	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62649	55.416	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.840%			
35) Dibromofluoromethane	5.379	113	46667	49.465	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.940%			
50) Toluene-d8	8.647	98	163786	47.887	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.780%			
62) 4-Bromofluorobenzene	11.079	95	56202	49.588	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.180%			
Target Compounds						Qvalue
16) Acetone	2.380	43	2084	3.973	ug/l	98

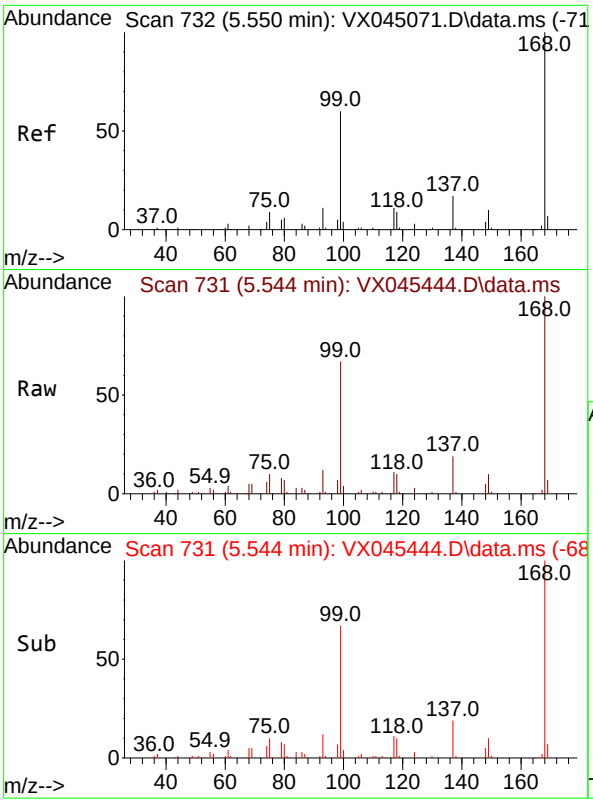
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045444.D
Acq On : 25 Mar 2025 16:46
Operator : JC/MD
Sample : Q1629-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB03-20250321

Quant Time: Mar 26 01:41:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



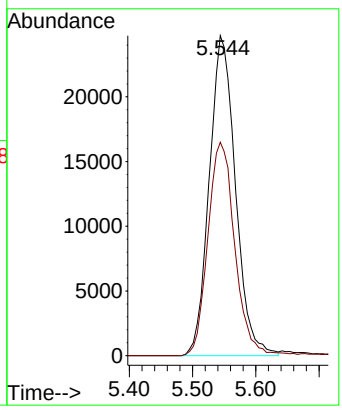


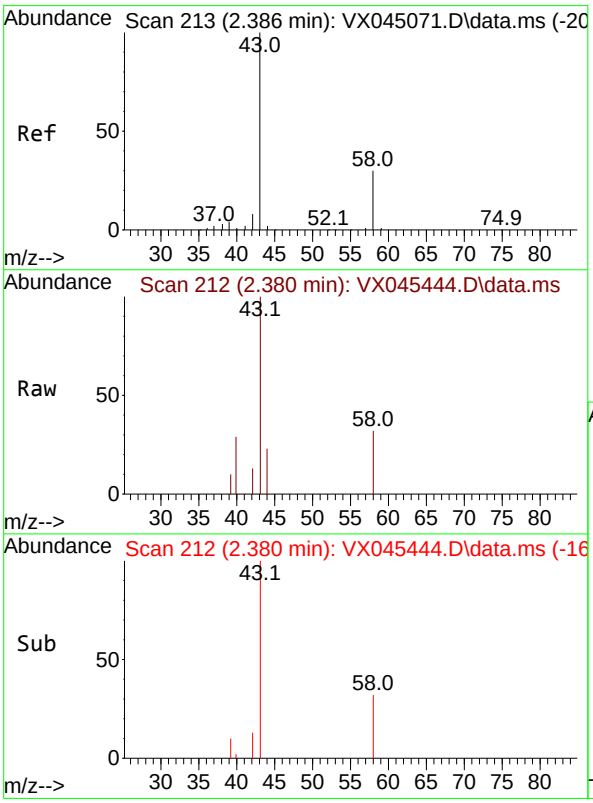
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Instrument :
MSVOA_X
ClientSampleId :
FB03-20250321

Tgt Ion:168 Resp: 71073

Ion	Ratio	Lower	Upper
168	100		
99	66.7	48.2	72.4

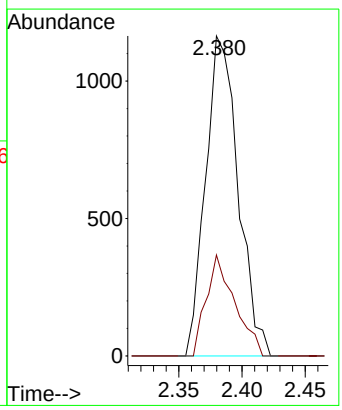


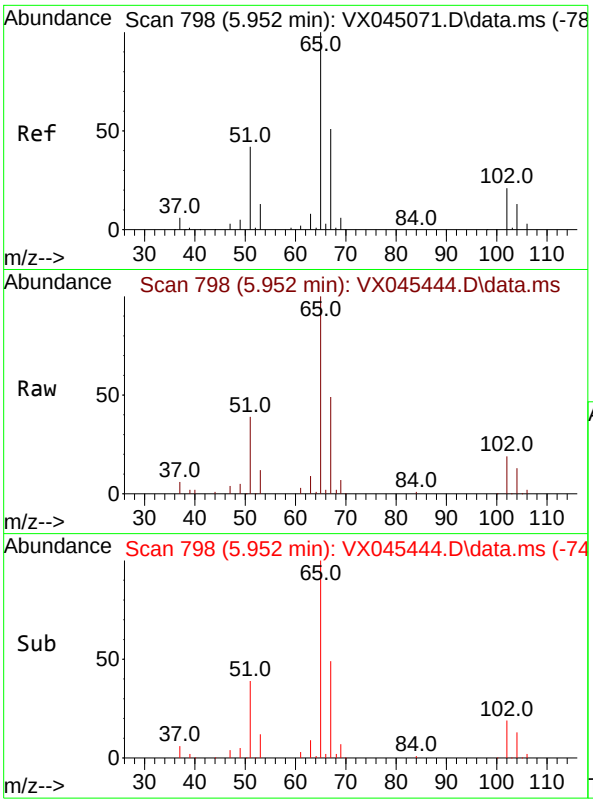


#16
Acetone
Concen: 3.973 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Tgt Ion: 43 Resp: 2084

Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.2	36.4



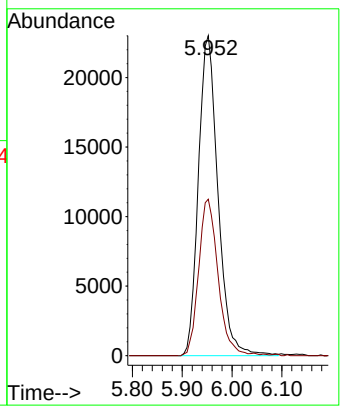


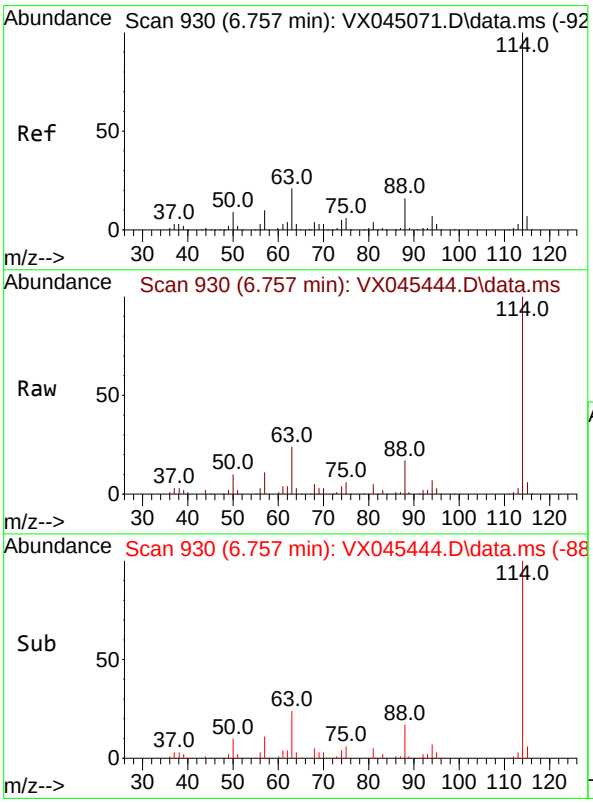
#33
1,2-Dichloroethane-d4
Concen: 55.416 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Instrument :
MSVOA_X
ClientSampleId :
FB03-20250321

Tgt Ion: 65 Resp: 62649

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	106.2

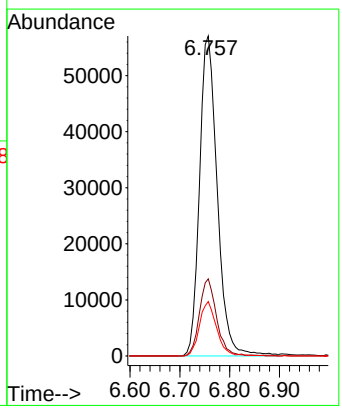


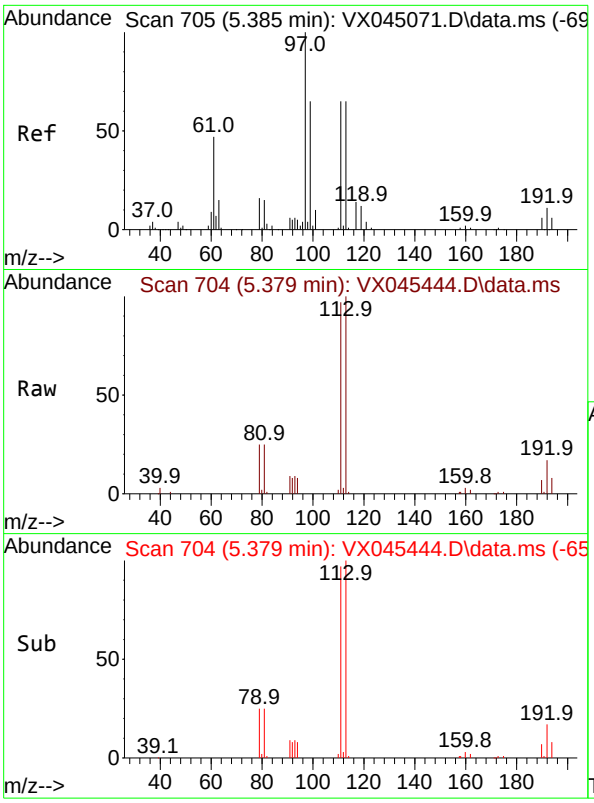


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Tgt Ion:114 Resp: 141090

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	41.8
88	17.0	0.0	32.8



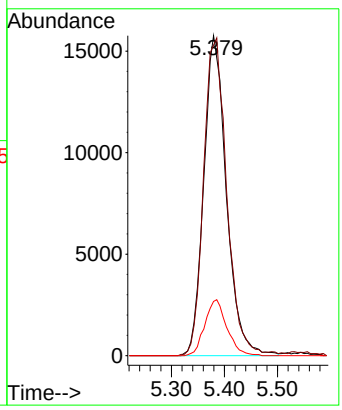


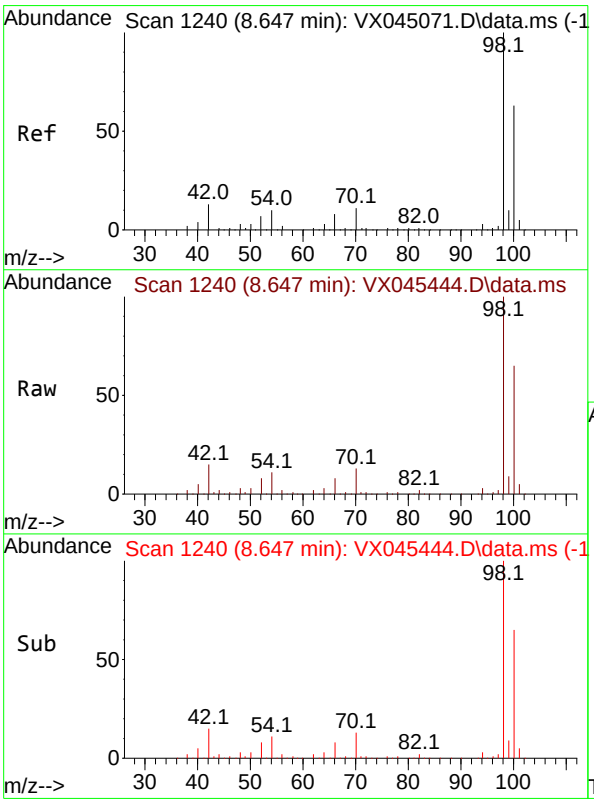
#35
Dibromofluoromethane
Concen: 49.465 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Instrument :
MSVOA_X
ClientSampleId :
FB03-20250321

Tgt Ion:113 Resp: 46667

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.6
192	17.1	14.3	21.5

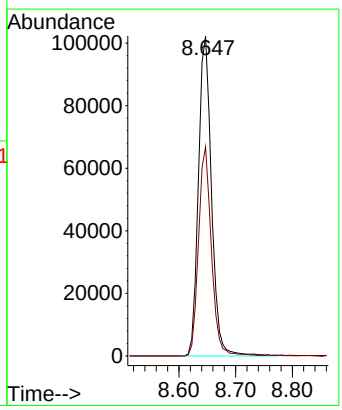


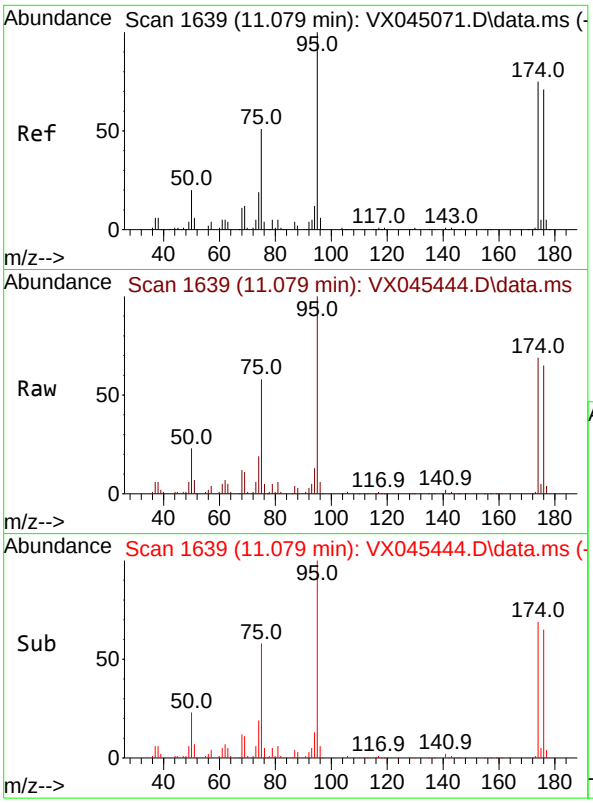


#50
Toluene-d8
Concen: 47.887 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Tgt Ion: 98 Resp: 163786

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0



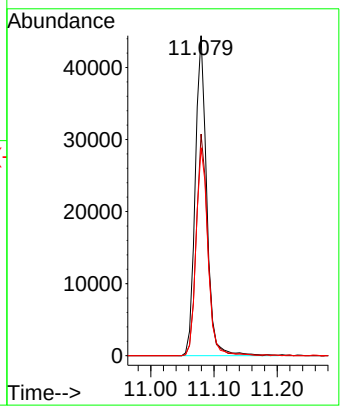


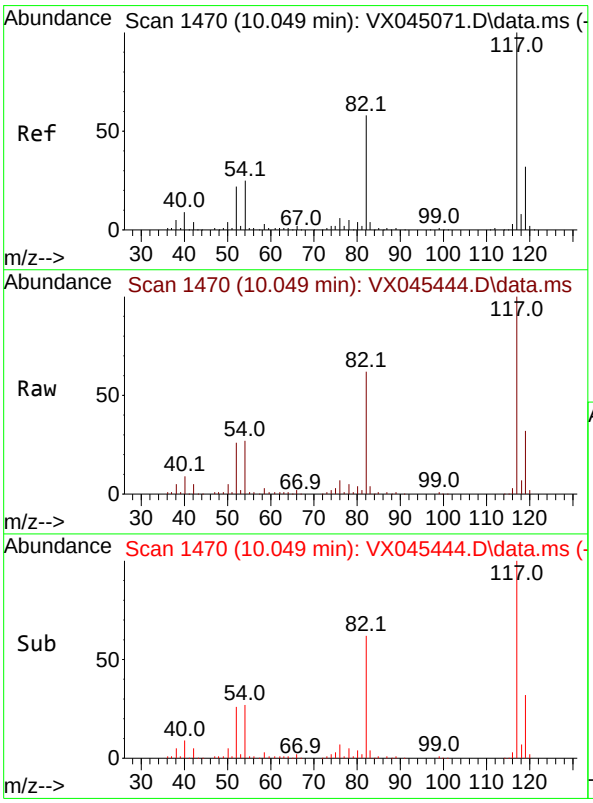
#62
4-Bromofluorobenzene
Concen: 49.588 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Instrument :
MSVOA_X
ClientSampleId :
FB03-20250321

Tgt Ion: 95 Resp: 56202

Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	148.2
176	67.4	0.0	141.4

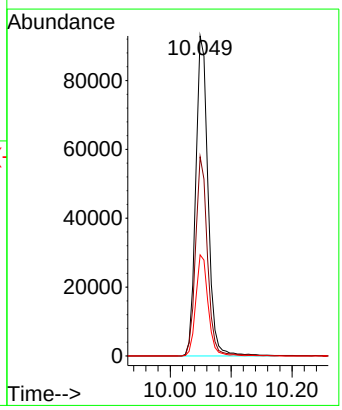


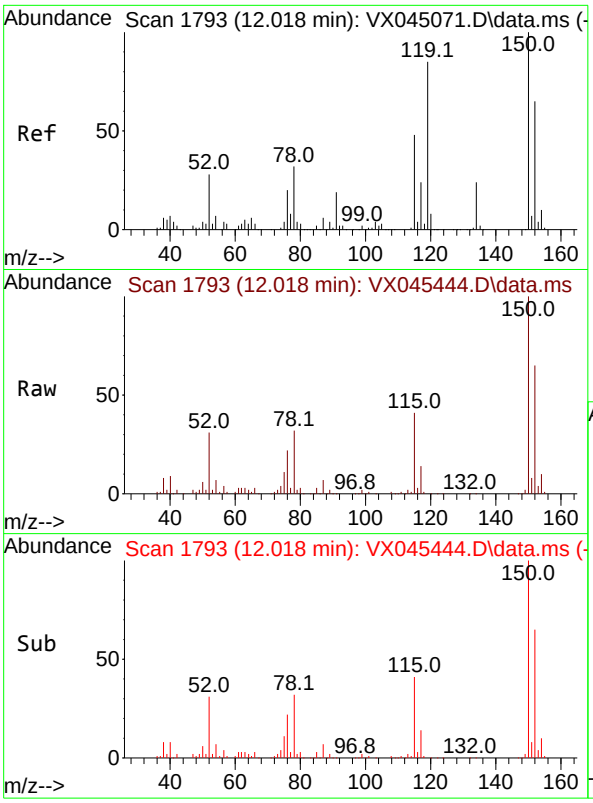


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Tgt Ion:117 Resp: 129742

Ion	Ratio	Lower	Upper
117	100		
82	62.2	46.3	69.5
119	31.6	25.7	38.5



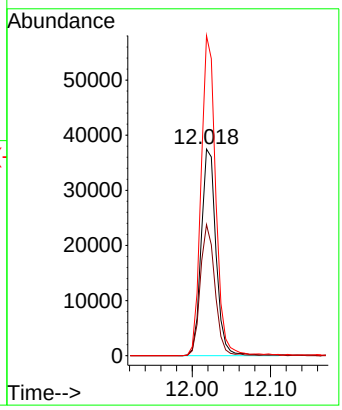


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045444.D
Acq: 25 Mar 2025 16:46

Instrument :
MSVOA_X
ClientSampleId :
FB03-20250321

Tgt Ion:152 Resp: 49151

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.2	132.6
150	153.6	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/21/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TB	SDG No.:	Q1629
Lab Sample ID:	Q1629-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045443.D	1		03/25/25 16:22	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.60	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/21/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TB	SDG No.:	Q1629
Lab Sample ID:	Q1629-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045443.D	1		03/25/25 16:22	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.0		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	47.3		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	70900	5.549				
540-36-3	1,4-Difluorobenzene	138000	6.756				
3114-55-4	Chlorobenzene-d5	128000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	51700	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/21/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TB	SDG No.:	Q1629
Lab Sample ID:	Q1629-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045443.D	1		03/25/25 16:22	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045443.D
Acq On : 25 Mar 2025 16:22
Operator : JC/MD
Sample : Q1629-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Mar 26 01:40:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

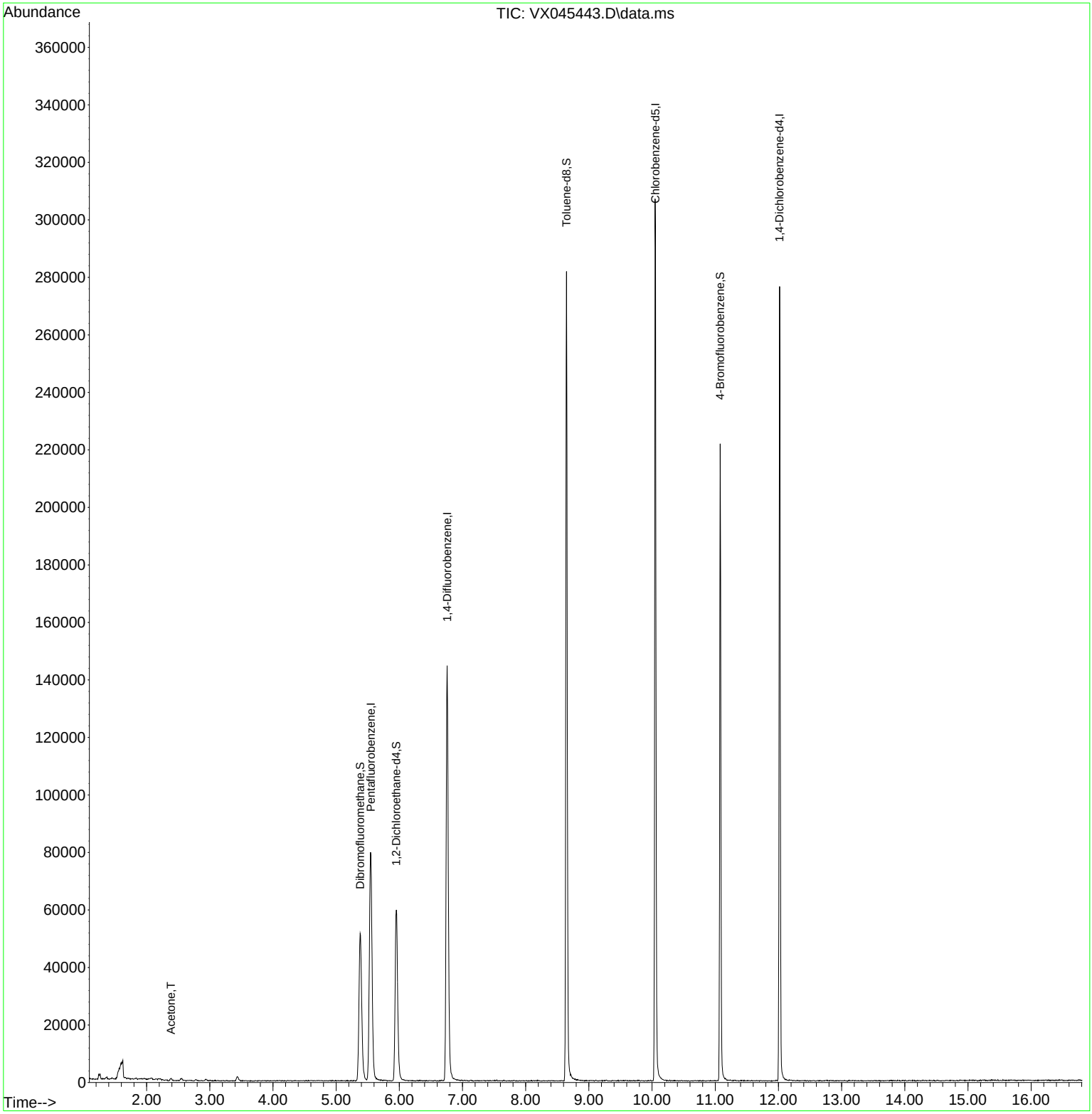
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	70921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.756	114	138131	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	128366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51682	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59806	53.015	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.020%			
35) Dibromofluoromethane	5.379	113	45349	49.098	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.200%			
50) Toluene-d8	8.646	98	158344	47.287	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.580%			
62) 4-Bromofluorobenzene	11.079	95	56114	50.571	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.140%			
Target Compounds						Qvalue
16) Acetone	2.385	43	843	1.611	ug/l	91

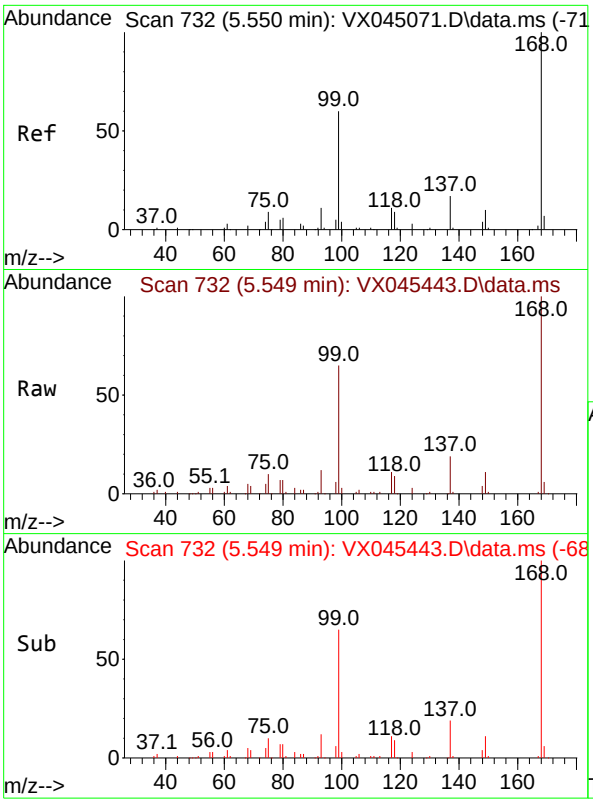
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045443.D
Acq On : 25 Mar 2025 16:22
Operator : JC/MD
Sample : Q1629-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Mar 26 01:40:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



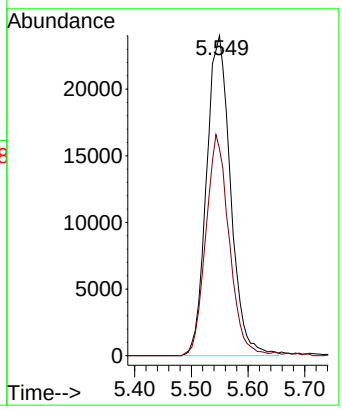


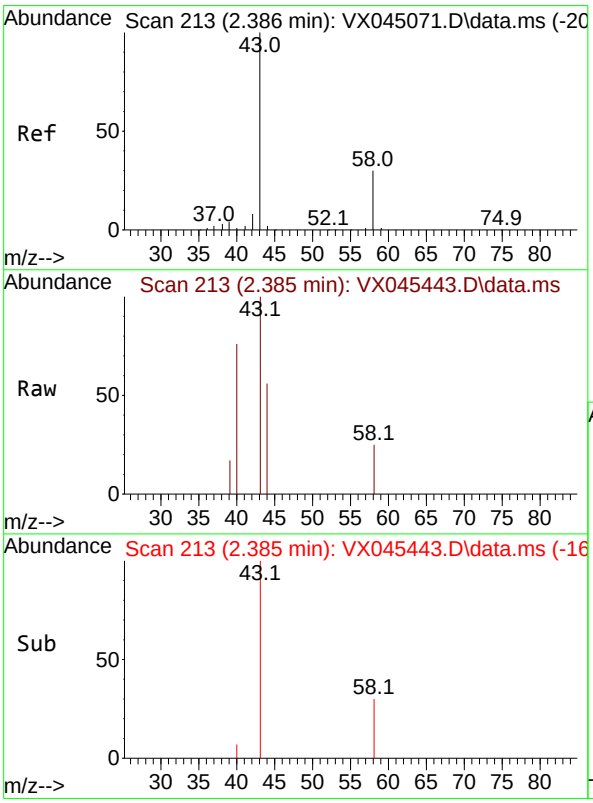
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:168 Resp: 70921

Ion	Ratio	Lower	Upper
168	100		
99	64.6	48.2	72.4

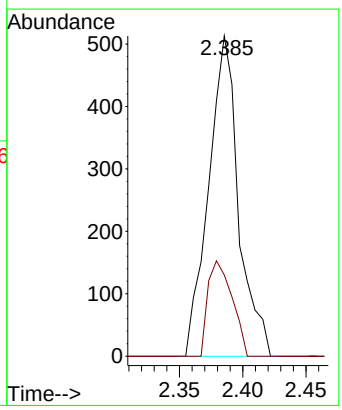


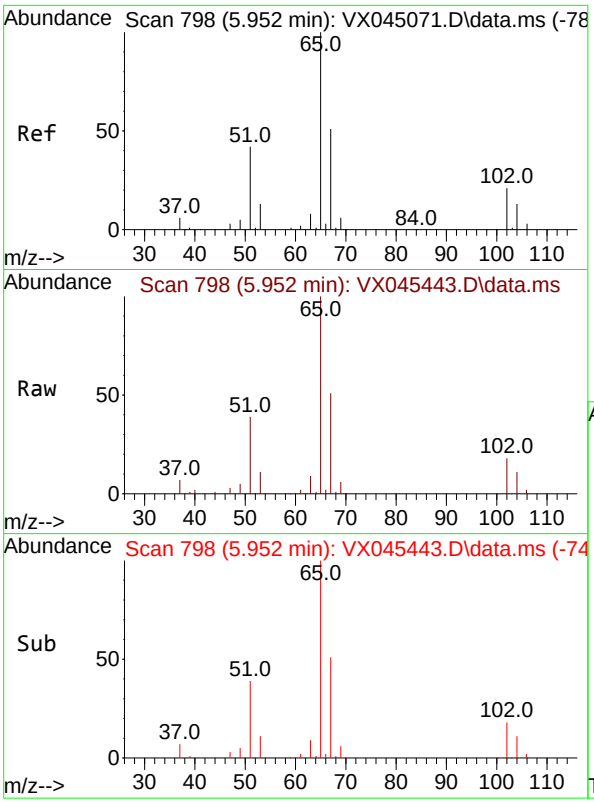


#16
Acetone
Concen: 1.611 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Tgt Ion: 43 Resp: 843

Ion	Ratio	Lower	Upper
43	100		
58	25.3	24.2	36.4



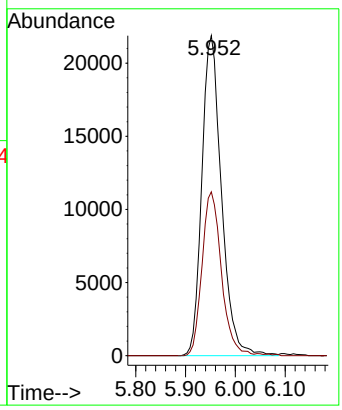


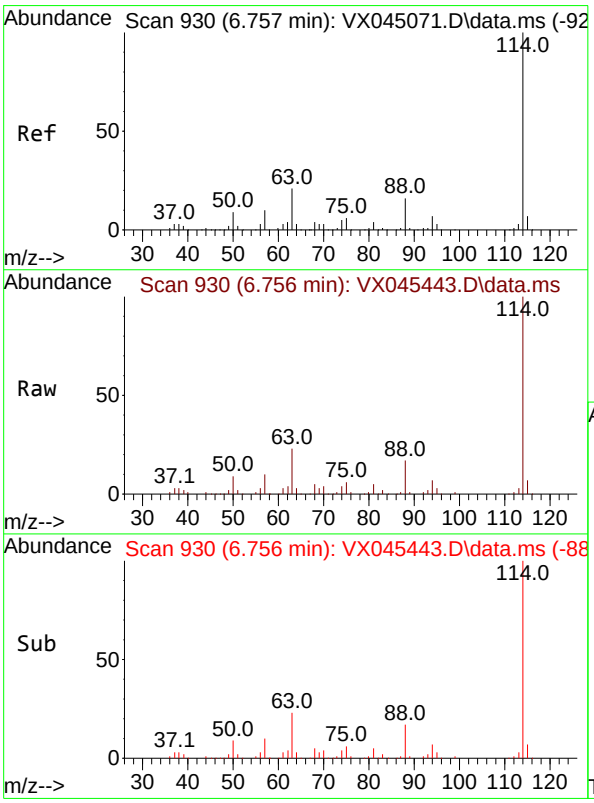
#33
1,2-Dichloroethane-d4
Concen: 53.015 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 65 Resp: 59806

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2

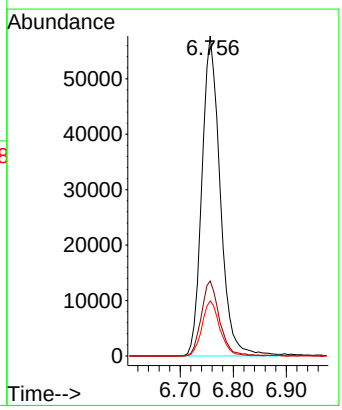


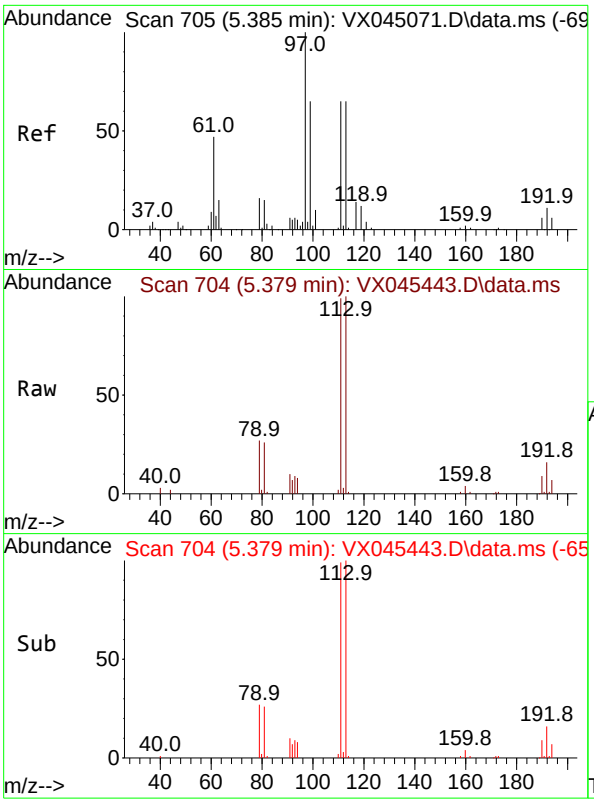


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.756 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Tgt Ion:114 Resp: 138131

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	41.8
88	17.2	0.0	32.8



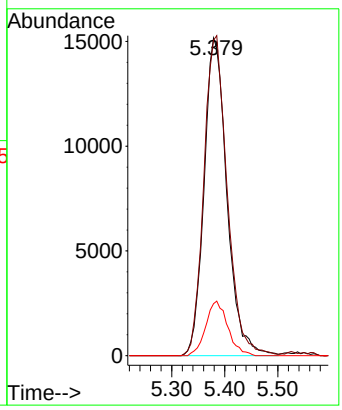


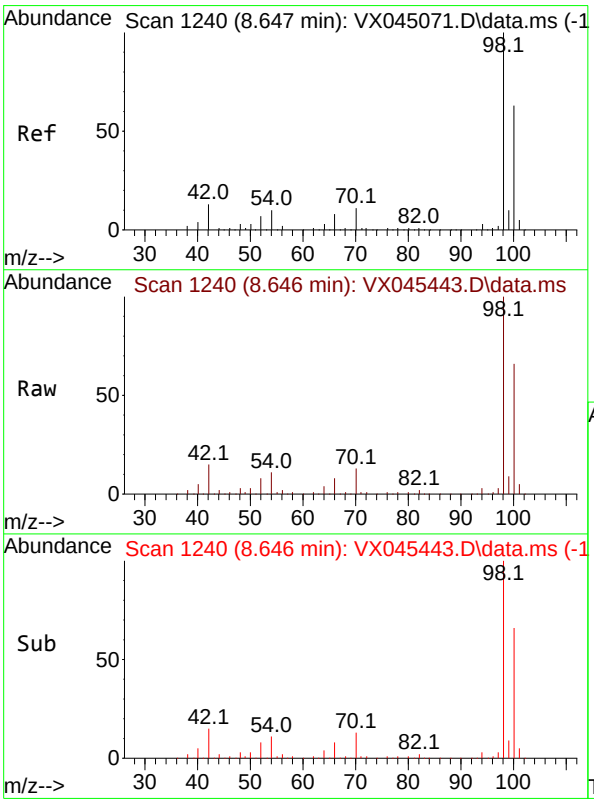
#35
Dibromofluoromethane
Concen: 49.098 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:113 Resp: 45349

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.8	122.6
192	16.6	14.3	21.5

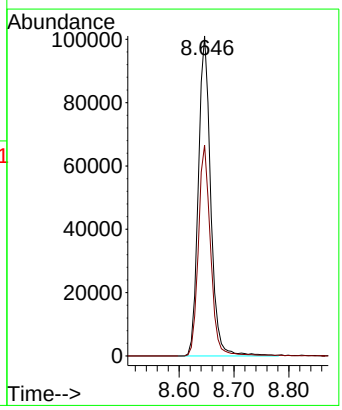


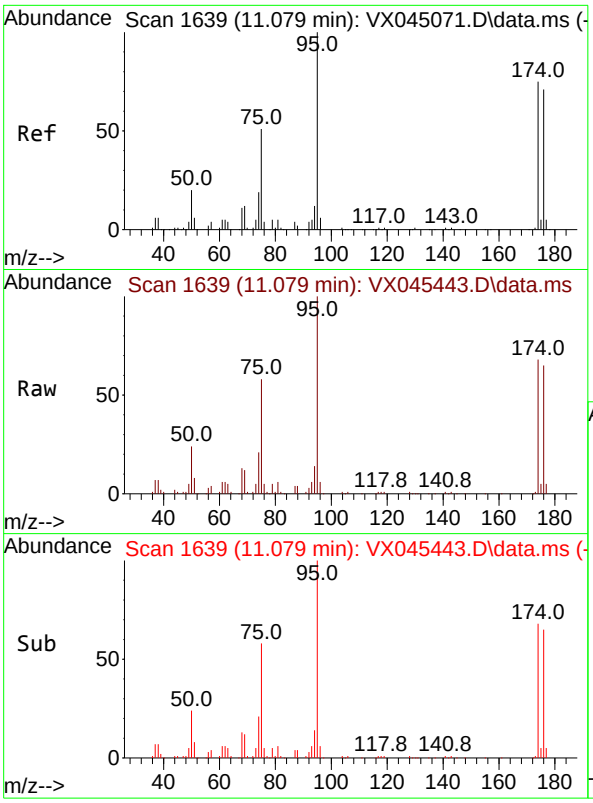


#50
Toluene-d8
Concen: 47.287 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Tgt Ion: 98 Resp: 158344

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0



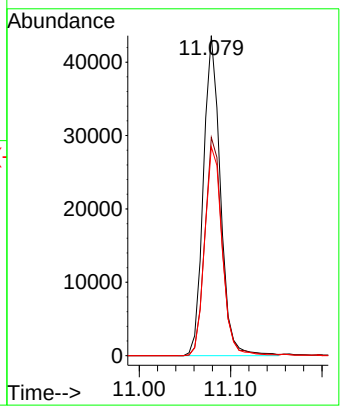


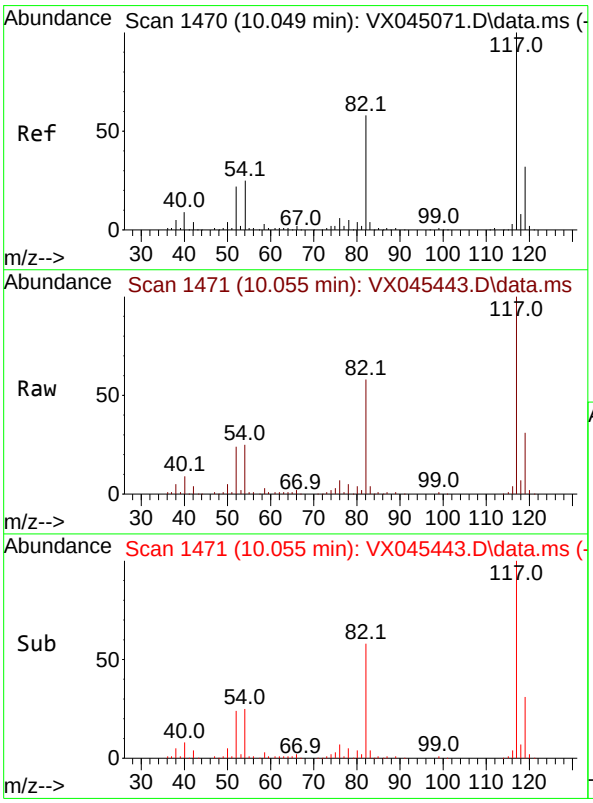
#62
4-Bromofluorobenzene
Concen: 50.571 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 95 Resp: 56114

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	148.2
176	67.3	0.0	141.4

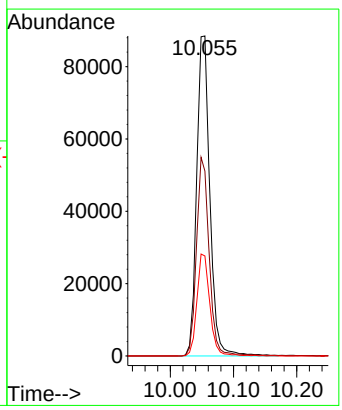


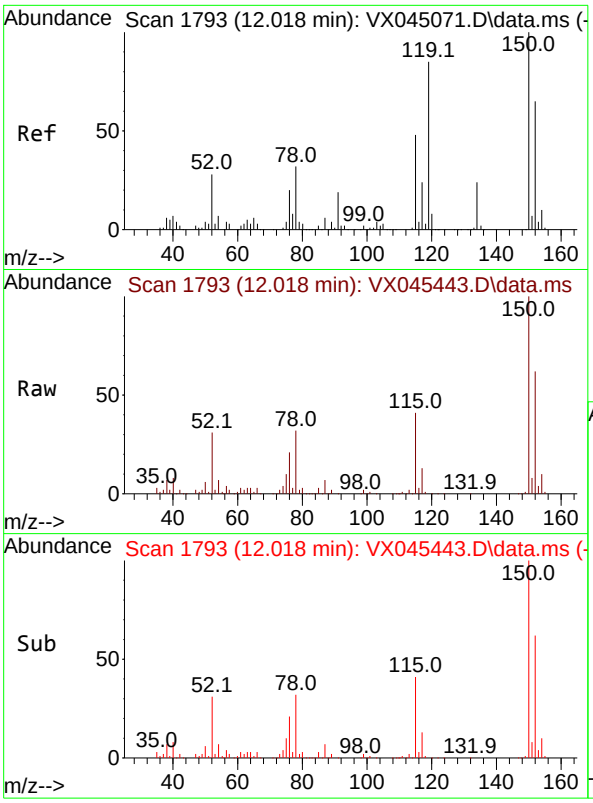


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Tgt Ion:117 Resp: 128366

Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.3	69.5
119	31.3	25.7	38.5



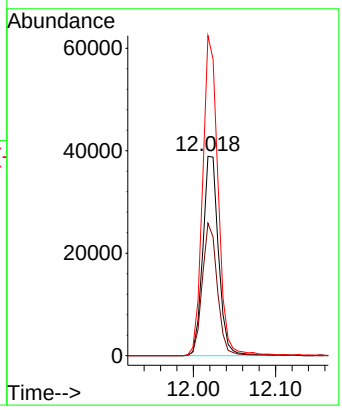


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045443.D
Acq: 25 Mar 2025 16:22

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:152 Resp: 51682

Ion	Ratio	Lower	Upper
152	100		
115	64.0	44.2	132.6
150	157.8	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045461.D	1		03/26/25 11:46	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	UQ	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045461.D	1		03/26/25 11:46	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	47.1		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	72700	5.544				
540-36-3	1,4-Difluorobenzene	140000	6.757				
3114-55-4	Chlorobenzene-d5	130000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	52400	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320	SDG No.:	Q1629
Lab Sample ID:	Q1629-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045461.D	1		03/26/25 11:46	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045461.D
Acq On : 26 Mar 2025 11:46
Operator : JC/MD
Sample : Q1629-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320

Quant Time: Mar 27 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

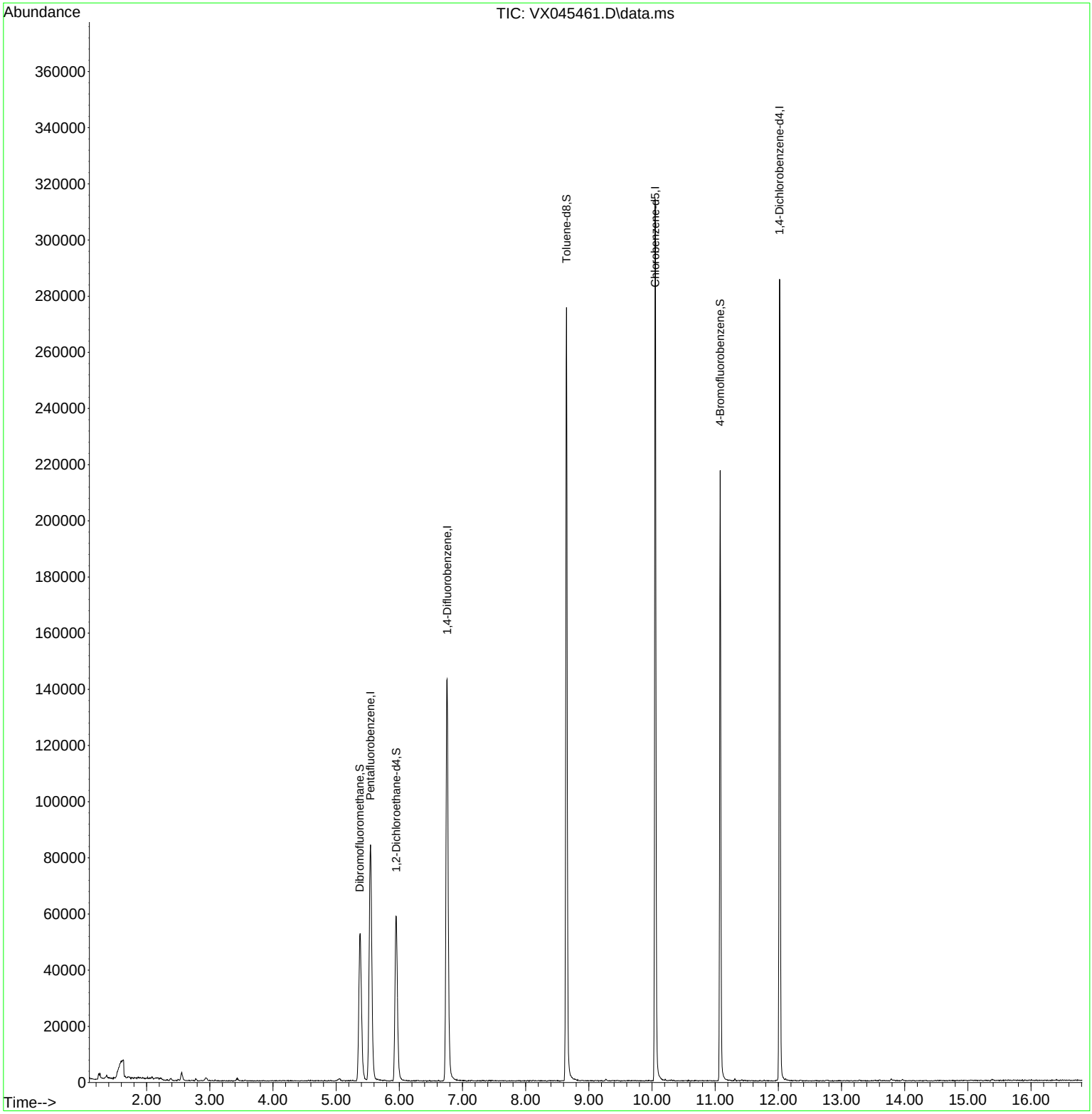
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	72703	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	139868	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129727	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	52360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	58838	50.878	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.760%			
35) Dibromofluoromethane	5.373	113	45250	48.382	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.760%			
50) Toluene-d8	8.647	98	159593	47.069	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.140%			
62) 4-Bromofluorobenzene	11.079	95	55417	49.323	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.640%			
Target Compounds						Qvalue

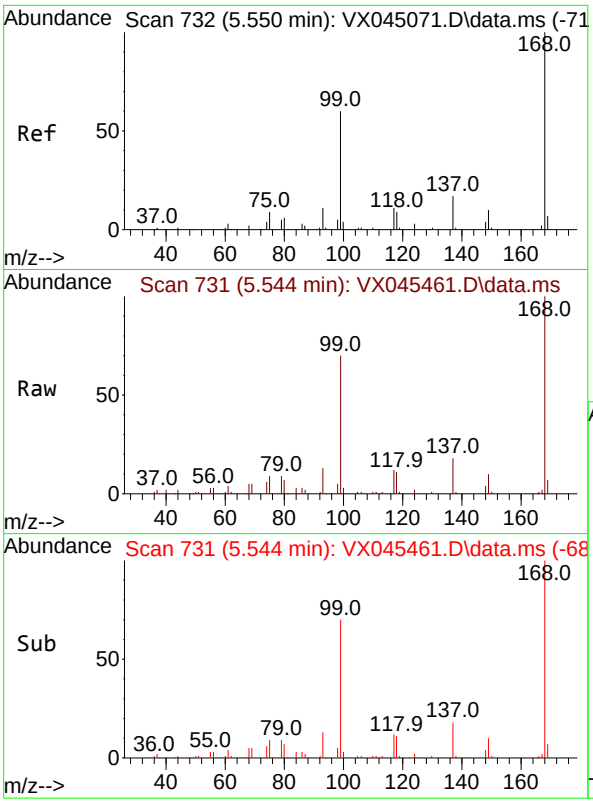
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045461.D
Acq On : 26 Mar 2025 11:46
Operator : JC/MD
Sample : Q1629-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320

Quant Time: Mar 27 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



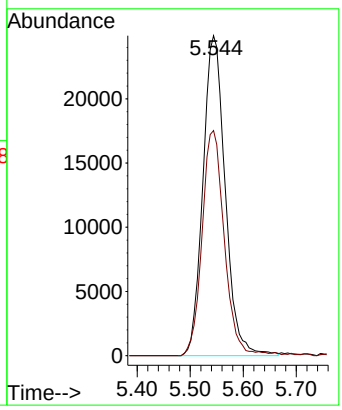


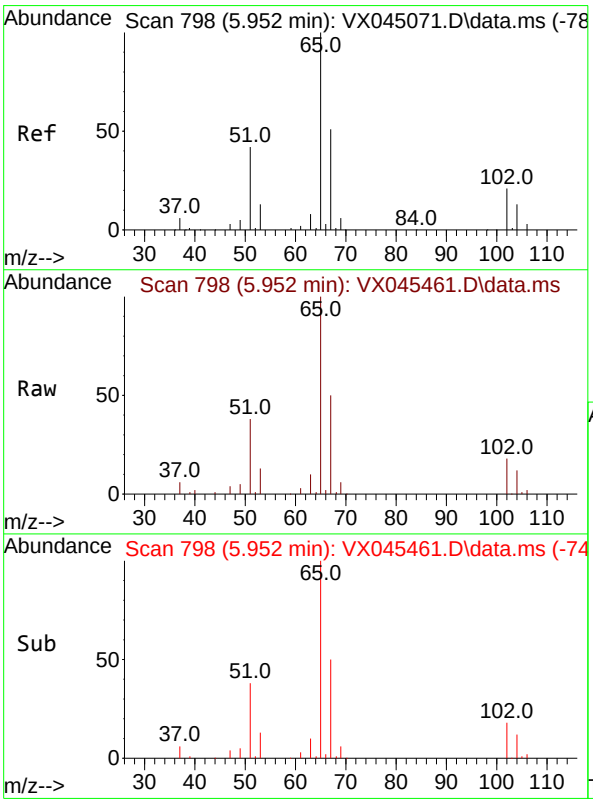
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320

Tgt Ion:168 Resp: 72703

Ion	Ratio	Lower	Upper
168	100		
99	70.4	48.2	72.4

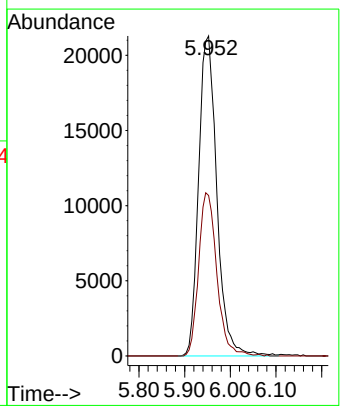


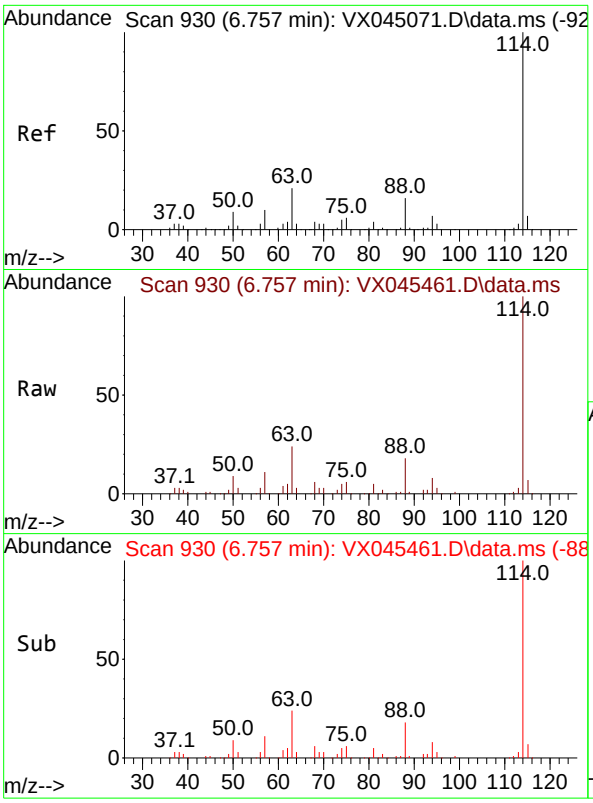


#33
1,2-Dichloroethane-d4
Concen: 50.878 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Tgt Ion: 65 Resp: 58838

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	106.2



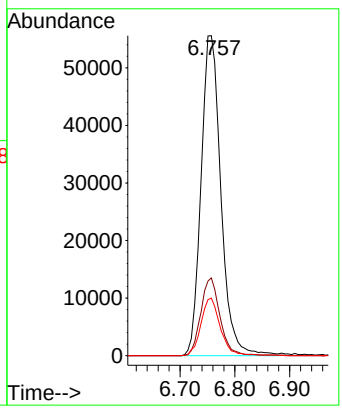


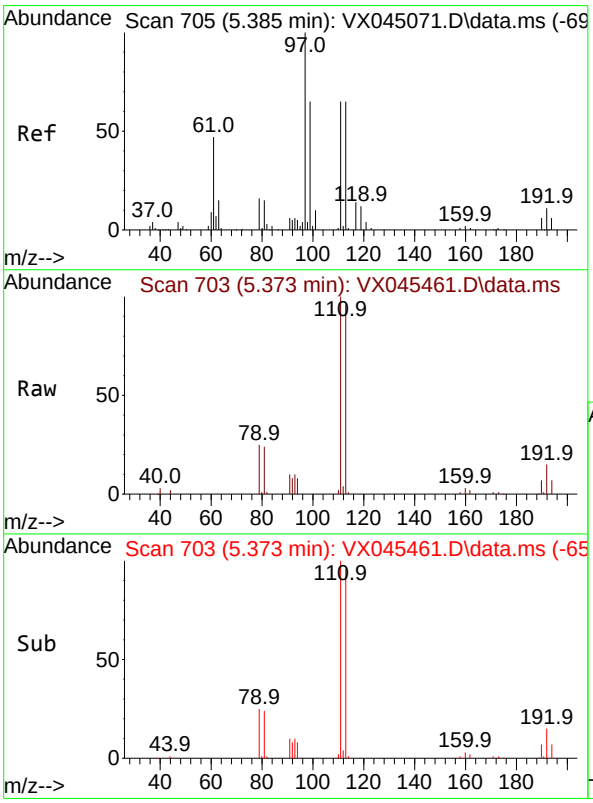
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320

Tgt Ion:114 Resp: 139868

Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	41.8
88	18.0	0.0	32.8

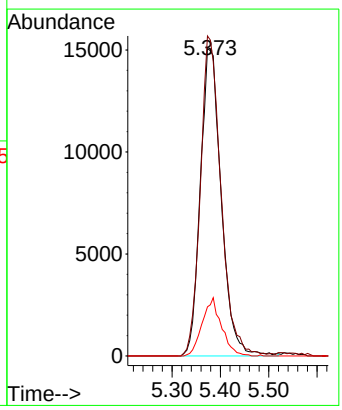


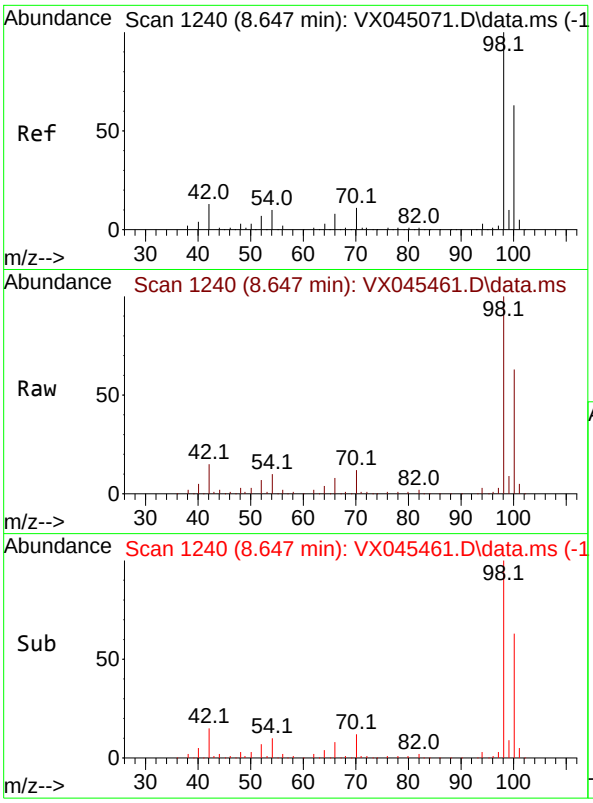


#35
Dibromofluoromethane
Concen: 48.382 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.012 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Tgt Ion:113 Resp: 45250

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	17.4	14.3	21.5



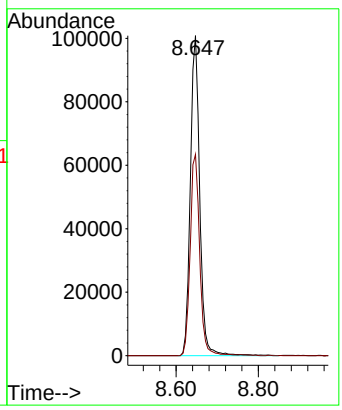


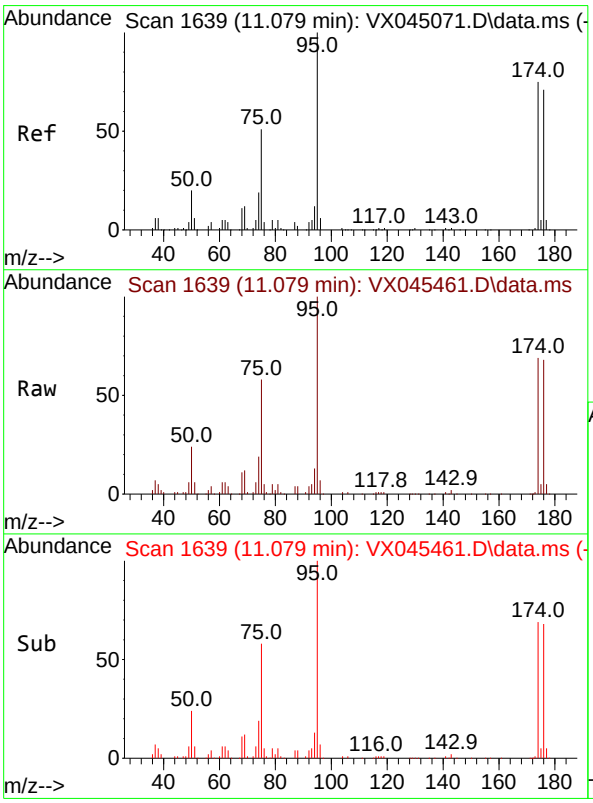
#50
Toluene-d8
Concen: 47.069 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320

Tgt Ion: 98 Resp: 159593

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.0	78.0

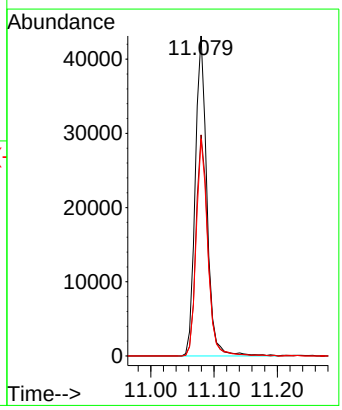


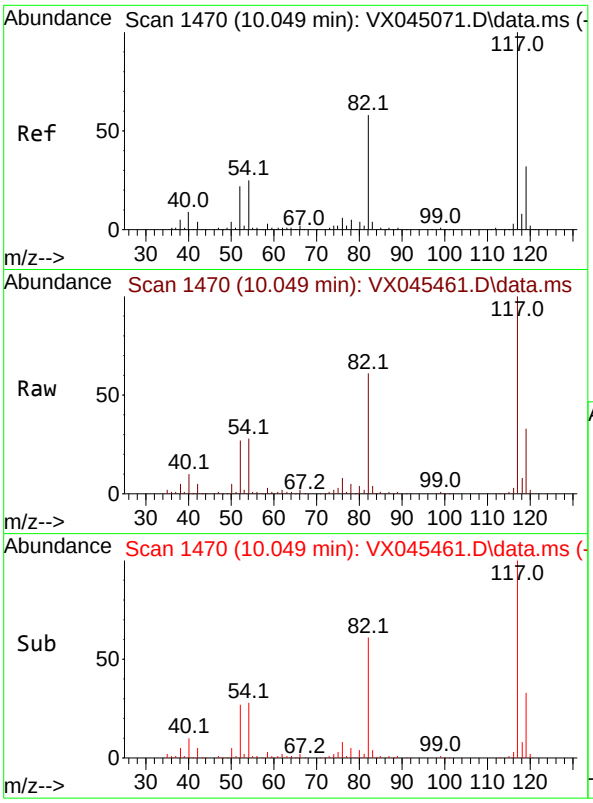


#62
4-Bromofluorobenzene
Concen: 49.323 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Tgt Ion: 95 Resp: 55417

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	148.2
176	67.3	0.0	141.4



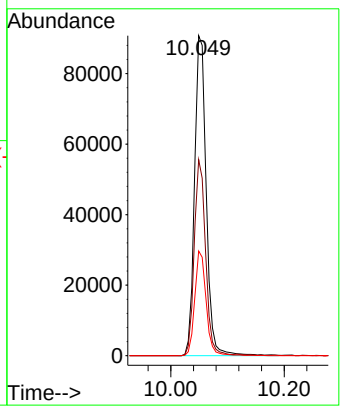


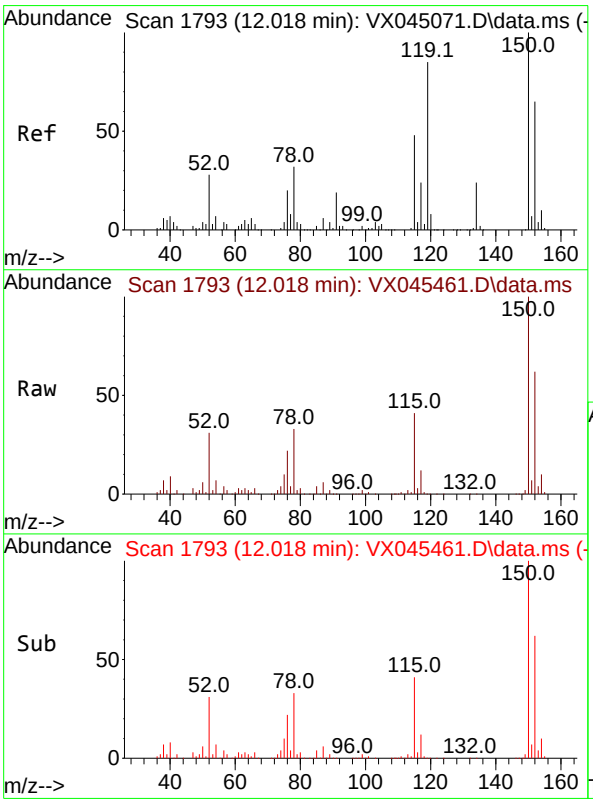
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320

Tgt Ion:117 Resp: 129727

Ion	Ratio	Lower	Upper
117	100		
82	61.2	46.3	69.5
119	32.7	25.7	38.5

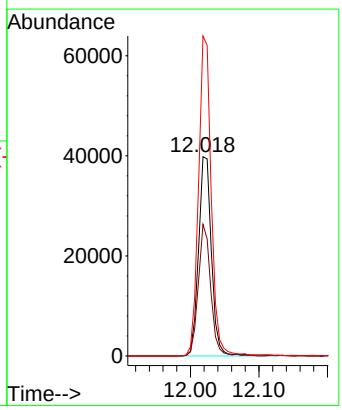




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045461.D
Acq: 26 Mar 2025 11:46

Tgt Ion:152 Resp: 52360

Ion	Ratio	Lower	Upper
152	100		
115	63.6	44.2	132.6
150	157.6	0.0	349.0



CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.4
Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.7
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1
Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7
Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.5
Trichlorofluoromethane	0.978	1.061	1.050	1.050	0.982	0.948	1.012	4.7
1,1,2-Trichlorotrifluoroethane	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.4
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3
Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7
Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.6
Methyl tert-butyl Ether	1.955	1.913	2.127	2.083	2.132	2.158	2.061	5
Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.6
Methylene Chloride	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.8
trans-1,2-Dichloroethene	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.7
1,1-Dichloroethane	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.5
Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.3
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3
cis-1,2-Dichloroethene	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.2
Bromochloromethane	0.557	0.633	0.613	0.603	0.563	0.596	0.594	5
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2
1,1,1-Trichloroethane	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.8
Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.1
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7
1,2-Dichloropropane	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.7
Bromodichloromethane	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.2
4-Methyl-2-Pentanone	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.5
Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.3
cis-1,3-Dichloropropene	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.8
1,1,2-Trichloroethane	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.6
2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.1
Dibromochloromethane	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9
1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.7
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7
Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.1
m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.3
o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.5
Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.7
Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.9
Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.8
1,1,2,2-Tetrachloroethane	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.6
1,3-Dichlorobenzene	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.4
1,4-Dichlorobenzene	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.1
1,2-Dichlorobenzene	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.5
1,2-Dibromo-3-Chloropropane	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.6
1,2,4-Trichlorobenzene	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.3
1,2,3-Trichlorobenzene	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.2
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025
Response Via : Initial Calibration

Calibration Files
1 =VX045068.D 5 =VX045069.D 20 =VX045070.D 50 =VX045071.D 100 =VX045072.D 150 =VX045073.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.38
3)	P	Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.68
4)	C	Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1.03#
5)	T	Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7.01
6)	T	Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.54
7)	T	Trichlorofluor...	0.978	1.061	1.050	1.050	0.982	0.948	1.011	4.73
8)	T	Diethyl Ether	0.406	0.402	0.409	0.387	0.387	0.383	0.396	2.83
9)	T	1,1,2-Trichlor...	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.41
10)	T	Methyl Iodide		0.607	0.758	0.769	0.758	0.739	0.726	9.28
11)	T	Tert butyl alc...		0.189	0.161	0.134	0.133	0.136	0.151	16.19
12)	CM	1,1-Dichloroet...	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.27#
13)	T	Acrolein		0.162	0.173	0.174	0.178	0.184	0.174	4.53
14)	T	Allyl chloride	1.140	1.047	1.104	1.107	1.091	1.072	1.094	2.92
15)	T	Acrylonitrile	0.396	0.398	0.432	0.410	0.387	0.399	0.404	3.90
16)	T	Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7.04
17)	T	Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.62
18)	T	Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.59
19)	T	Methyl tert-bu...	1.955	1.913	2.127	2.083	2.132	2.158	2.061	4.97
20)	T	Methylene Chlo...	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.84
21)	T	trans-1,2-Dich...	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.73
22)	T	Diisopropyl ether	1.959	2.156	2.321	2.291	2.310	2.307	2.224	6.46
23)	T	Vinyl Acetate	1.486	1.655	1.961	1.973	2.012	2.049	1.856	12.38
24)	P	1,1-Dichloroet...	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.45
25)	T	2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.09
26)	T	2,2-Dichloropr...	0.519	0.562	0.588	0.597	0.617	0.626	0.585	6.74
27)	T	cis-1,2-Dichlo...	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.21
28)	T	Bromochloromet...	0.557	0.633	0.613	0.603	0.563	0.596	0.594	4.97
29)	T	Tetrahydrofuran	0.362	0.376	0.398	0.373	0.361	0.368	0.373	3.61
30)	C	Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	1.97#
31)	T	Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.35
32)	T	1,1,1-Trichlor...	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.83
33)	S	1,2-Dichloroet...		0.836	0.784	0.757	0.783	0.817	0.795	3.91
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.329	0.335	0.329	0.340	0.338	0.334	1.53
36)	T	1,1-Dichloropr...	0.446	0.462	0.444	0.469	0.476	0.455	0.459	2.77
37)	T	Ethyl Acetate	0.589	0.538	0.607	0.606	0.609	0.596	0.591	4.53
38)	T	Carbon Tetrach...	0.463	0.463	0.447	0.468	0.489	0.463	0.465	2.96
39)	T	Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.07
40)	TM	Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.72
41)	T	Methacrylonitrile	0.284	0.293	0.337	0.340	0.332	0.330	0.319	7.59
42)	TM	1,2-Dichloroet...	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.63
43)	T	Isopropyl Acetate	0.675	0.800	0.940	0.929	0.935	0.964	0.874	12.98
44)	TM	Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.72
45)	C	1,2-Dichloropr...	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.68#
46)	T	Dibromomethane	0.236	0.265	0.272	0.269	0.269	0.268	0.263	5.10
47)	T	Bromodichlorom...	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.23
48)	T	Methyl methacr...	0.352	0.422	0.460	0.463	0.458	0.475	0.438	10.46
49)	T	1,4-Dioxane	0.008	0.009	0.010	0.009	0.009	0.009	0.009	6.46
50)	S	Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.43
51)	T	4-Methyl-2-Pen...	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.52
52)	CM	Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8.03#
53)	T	t-1,3-Dichloro...	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.30
54)	T	cis-1,3-Dichlo...	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.80
55)	T	1,1,2-Trichlor...	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.63
56)	T	Ethyl methacry...	0.396	0.500	0.562	0.570	0.577	0.586	0.532	13.74

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X022825W.M

57)	T	1,3-Dichloropr...	0.560	0.623	0.643	0.620	0.597	0.588	0.605	4.90
58)	T	2-Chloroethyl ...	0.218	0.239	0.271	0.284	0.273	0.270	0.259	9.71
59)	T	2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.08
60)	T	Dibromochlorom...	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9.01
61)	T	1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.73
62)	S	4-Bromofluorob...		0.383	0.393	0.402	0.410	0.421	0.402	3.67
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.33
65)	PM	Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.68
66)	T	1,1,1,2-Tetrac...	0.337	0.331	0.357	0.356	0.372	0.362	0.352	4.39
67)	C	Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.11#
68)	T	m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.27
69)	T	o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.52
70)	T	Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.75
71)	P	Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.94
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.79
74)	T	N-amyl acetate	1.349	1.578	1.890	1.977	2.078	2.116	1.831	16.62
75)	P	1,1,2,2-Tetrac...	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.60
76)	T	1,2,3-Trichlor...	1.181	1.201	1.193	1.147	1.131	1.130	1.164	2.73
77)	T	Bromobenzene	0.899	0.947	0.939	0.939	0.910	0.891	0.921	2.57
78)	T	n-propylbenzene	3.451	4.375	4.577	4.805	4.696	4.548	4.409	11.14
79)	T	2-Chlorotoluene	2.788	2.888	2.828	2.869	2.770	2.702	2.808	2.45
80)	T	1,3,5-Trimethy...	2.611	3.211	3.373	3.384	3.224	3.131	3.156	9.01
81)	T	trans-1,4-Dich...		0.268	0.313	0.339	0.376	0.405	0.340	15.78
82)	T	4-Chlorotoluene	2.800	3.015	3.078	3.234	3.140	3.092	3.060	4.80
83)	T	tert-Butylbenzene	3.029	3.256	3.342	3.375	3.292	3.160	3.242	3.96
84)	T	1,2,4-Trimethy...	2.646	3.202	3.380	3.378	3.258	3.188	3.175	8.57
85)	T	sec-Butylbenzene	3.000	3.847	4.137	4.215	4.125	3.978	3.884	11.65
86)	T	p-Isopropyltol...	2.511	2.986	3.266	3.424	3.369	3.275	3.139	10.91
87)	T	1,3-Dichlorobe...	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.40
88)	T	1,4-Dichlorobe...	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.06
89)	T	n-Butylbenzene	1.905	2.359	2.788	3.013	3.099	3.057	2.703	17.67
90)	T	Hexachloroethane	0.470	0.498	0.568	0.605	0.633	0.633	0.568	12.30
91)	T	1,2-Dichlorobe...	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.50
92)	T	1,2-Dibromo-3-...	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.64
93)	T	1,2,4-Trichlor...	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.32
94)	T	Hexachlorobuta...	0.356	0.369	0.390	0.392	0.406	0.395	0.385	4.77
95)	T	Naphthalene	2.573	3.115	3.866	3.902	4.091	4.082	3.605	17.21
96)	T	1,2,3-Trichlor...	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.23

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	102761	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	188642	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	159886	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64845	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	1282	1.007	ug/l		90
3) Chloromethane	1.301	50	1552	0.975	ug/l		91
4) Vinyl Chloride	1.368	62	1588	1.008	ug/l	#	85
6) Chloroethane	1.673	64	766m	0.992	ug/l		
7) Trichlorofluoromethane	1.880	101	2011	0.957	ug/l		97
8) Diethyl Ether	2.130	74	835	1.045	ug/l		80
9) 1,1,2-Trichlorotrifluo...	2.319	101	1081	0.884	ug/l		87
12) 1,1-Dichloroethene	2.313	96	1251	0.991	ug/l		92
14) Allyl chloride	2.660	41	2343	1.055	ug/l		93
15) Acrylonitrile	3.075	53	4067	4.931	ug/l		99
16) Acetone	2.380	43	4259	5.635	ug/l		100
17) Carbon Disulfide	2.502	76	3256	0.956	ug/l	#	92
18) Methyl Acetate	2.703	43	1960	1.066	ug/l		93
19) Methyl tert-butyl Ether	3.111	73	4017	0.943	ug/l		91
20) Methylene Chloride	2.782	84	1656	1.095	ug/l		98
21) trans-1,2-Dichloroethene	3.093	96	1109	0.869	ug/l		91
22) Diisopropyl ether	3.764	45	4026	0.871	ug/l	#	80
23) Vinyl Acetate	3.727	43	15271	3.971	ug/l		97
24) 1,1-Dichloroethane	3.605	63	2467	0.958	ug/l	#	83
25) 2-Butanone	4.587	43	4894	4.252	ug/l		96
26) 2,2-Dichloropropane	4.471	77	1066	0.872	ug/l	#	56
27) cis-1,2-Dichloroethene	4.501	96	1412	0.902	ug/l	#	19
28) Bromochloromethane	4.885	49	1144	0.958	ug/l	#	54
29) Tetrahydrofuran	5.032	42	3719	4.809	ug/l	#	34
30) Chloroform	5.093	83	2478	0.978	ug/l		92
32) 1,1,1-Trichloroethane	5.373	97	1867	0.893	ug/l	#	52
36) 1,1-Dichloropropene	5.690	75	1681	0.967	ug/l	#	84
37) Ethyl Acetate	4.739	43	2223m	0.988	ug/l		
38) Carbon Tetrachloride	5.672	117	1747m	0.987	ug/l		
39) Methylcyclohexane	7.385	83	1750	0.831	ug/l		88
40) Benzene	6.031	78	4984	0.907	ug/l		99
41) Methacrylonitrile	4.958	41	1072m	0.879	ug/l		
42) 1,2-Dichloroethane	6.099	62	1837	0.924	ug/l		78
43) Isopropyl Acetate	6.355	43	2545	0.767	ug/l	#	95
44) Trichloroethene	7.129	130	1202	0.933	ug/l		65
45) 1,2-Dichloropropane	7.434	63	1334	0.971	ug/l	#	82

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.586	93	891	0.897	ug/l		92
47) Bromodichloromethane	7.818	83	1802	0.927	ug/l	#	85
48) Methyl methacrylate	7.714	41	1328m	0.825	ug/l		
49) 1,4-Dioxane	7.684	88	639	18.144	ug/l	#	81
51) 4-Methyl-2-Pentanone	8.574	43	10091	4.567	ug/l		95
52) Toluene	8.720	92	2700	0.841	ug/l		97
53) t-1,3-Dichloropropene	8.994	75	1147	0.700	ug/l	#	85
54) cis-1,3-Dichloropropene	8.373	75	1525	0.804	ug/l	#	90
55) 1,1,2-Trichloroethane	9.153	97	1306	1.004	ug/l	#	90
56) Ethyl methacrylate	9.135	69	1494	0.748	ug/l	#	93
57) 1,3-Dichloropropane	9.311	76	2112	0.920	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.251	63	4115	4.320	ug/l		95
59) 2-Hexanone	9.439	43	6582	4.153	ug/l		96
60) Dibromochloromethane	9.519	129	1152	0.835	ug/l		98
61) 1,2-Dibromoethane	9.610	107	1174	0.890	ug/l		97
64) Tetrachloroethene	9.275	164	1006	0.986	ug/l	#	88
65) Chlorobenzene	10.080	112	3094	0.908	ug/l		90
66) 1,1,1,2-Tetrachloroethane	10.159	131	1078	0.978	ug/l	#	65
67) Ethyl Benzene	10.195	91	5008	0.846	ug/l	#	85
68) m/p-Xylenes	10.305	106	3552	1.630	ug/l		97
69) o-Xylene	10.640	106	1949	0.891	ug/l		95
70) Styrene	10.665	104	2810	0.802	ug/l		97
71) Bromoform	10.799	173	667	0.768	ug/l	#	92
73) Isopropylbenzene	10.964	105	4405	0.858	ug/l		96
74) N-amyl acetate	10.854	43	1750	0.732	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	11.213	83	1809	0.954	ug/l		88
76) 1,2,3-Trichloropropane	11.244	75	1531m	1.015	ug/l		
77) Bromobenzene	11.201	156	1166	0.972	ug/l		91
78) n-propylbenzene	11.305	91	4475	0.773	ug/l		97
79) 2-Chlorotoluene	11.366	91	3616	0.986	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	3386	0.815	ug/l		94
82) 4-Chlorotoluene	11.457	91	3631	0.904	ug/l		99
83) tert-Butylbenzene	11.713	119	3928	0.929	ug/l		96
84) 1,2,4-Trimethylbenzene	11.756	105	3432	0.827	ug/l		95
85) sec-Butylbenzene	11.890	105	3891	0.752	ug/l		100
86) p-Isopropyltoluene	12.012	119	3257	0.797	ug/l		94
87) 1,3-Dichlorobenzene	11.976	146	1948	0.913	ug/l		96
88) 1,4-Dichlorobenzene	12.043	146	2082m	0.962	ug/l		
89) n-Butylbenzene	12.335	91	2470	0.691	ug/l		93
90) Hexachloroethane	12.536	117	609	0.805	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	1918	0.890	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	308	0.859	ug/l		82
93) 1,2,4-Trichlorobenzene	13.591	180	866	0.706	ug/l		93
94) Hexachlorobutadiene	13.725	225	462	0.917	ug/l		94
95) Naphthalene	13.780	128	3337	0.707	ug/l	#	94
96) 1,2,3-Trichlorobenzene	13.963	180	969	0.759	ug/l		93

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

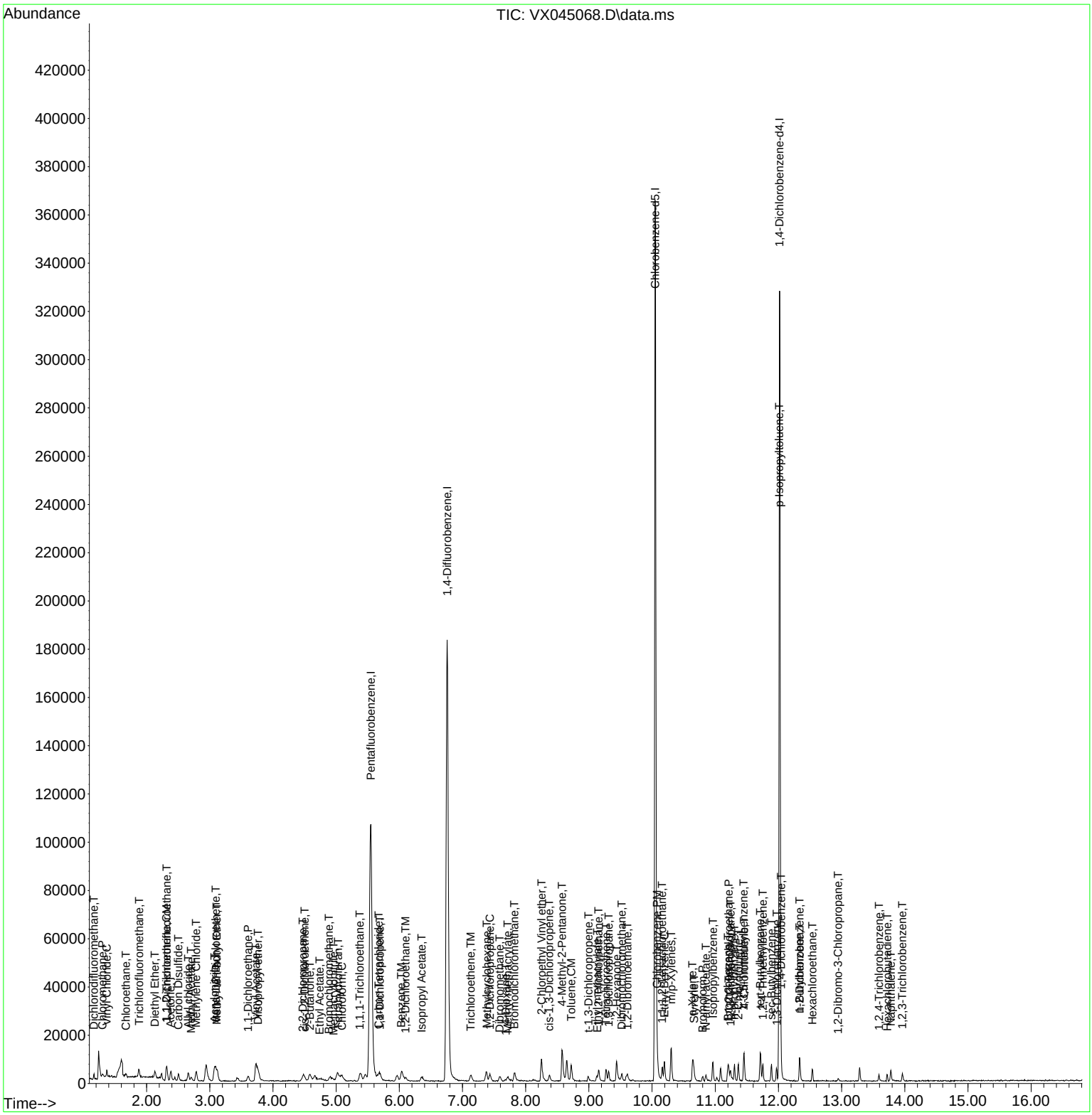
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

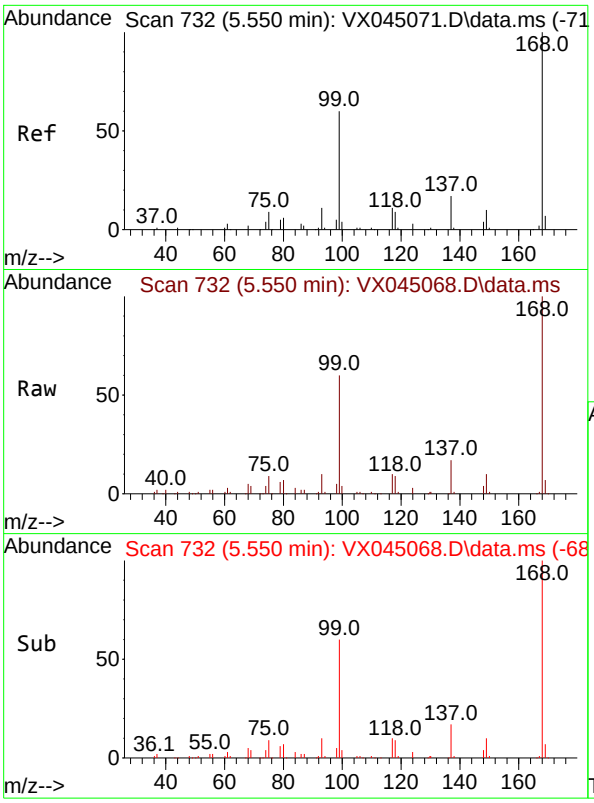
Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

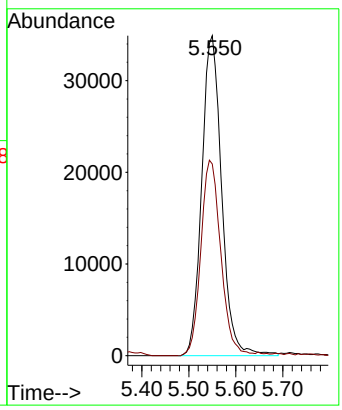




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:168 Resp: 10276

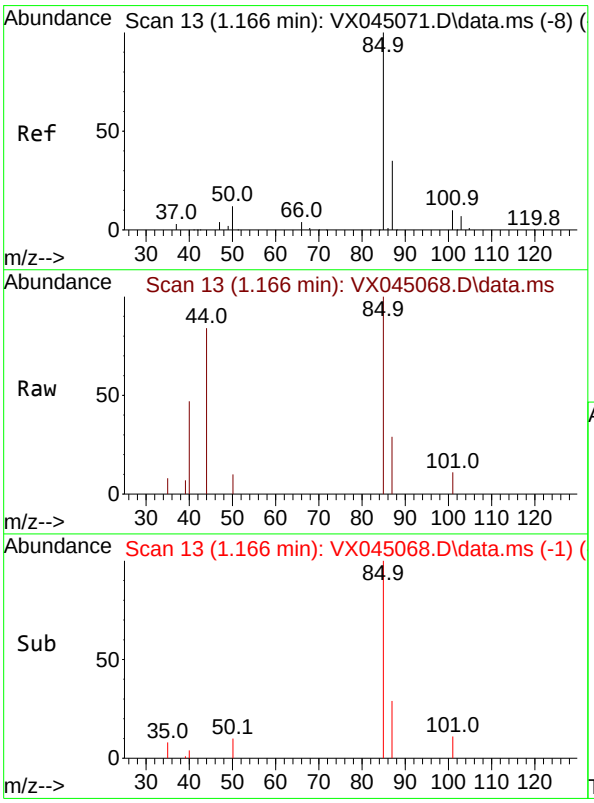
Ion	Ratio	Lower	Upper
168	100		
99	59.9	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

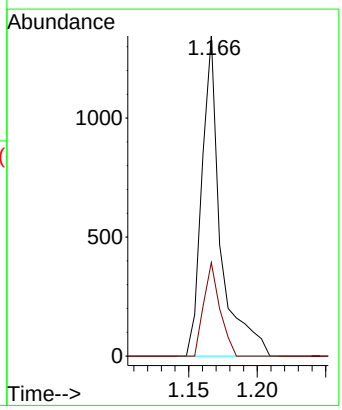
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

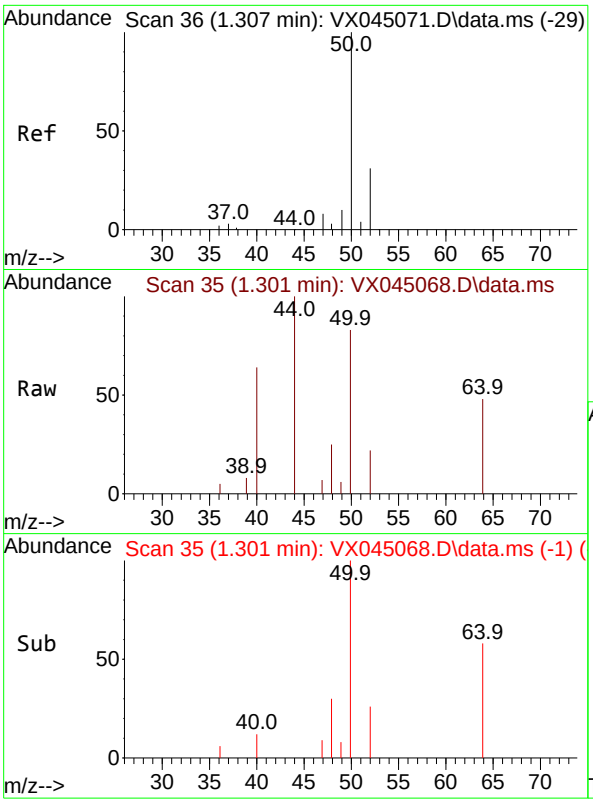


#2
Dichlorodifluoromethane
Concen: 1.007 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 85 Resp: 1282

Ion	Ratio	Lower	Upper
85	100		
87	29.2	17.4	52.3

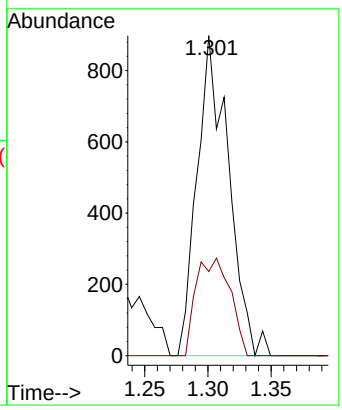




#3
Chloromethane
Concen: 0.975 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 50 Resp: 155

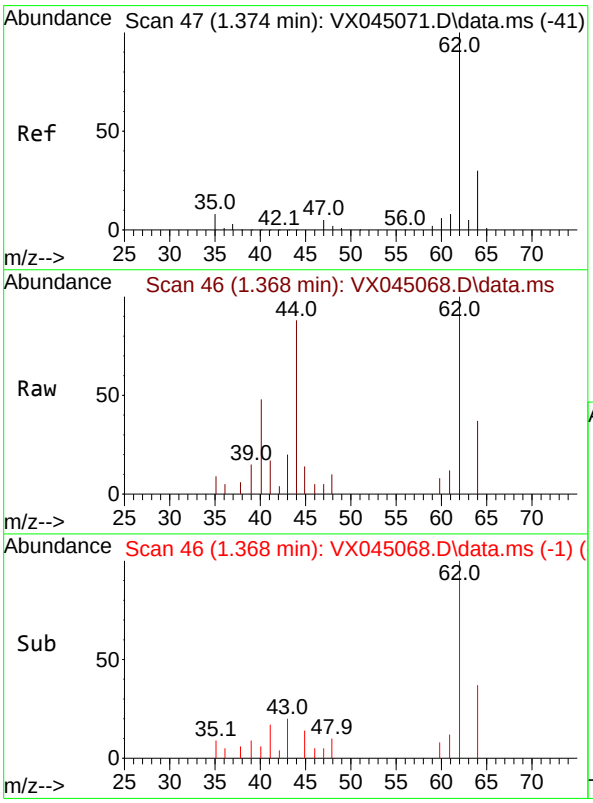
Ion	Ratio	Lower	Upper
50	100		
52	26.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

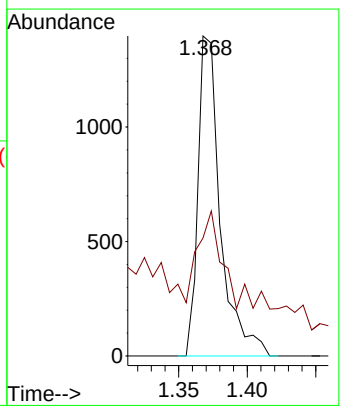
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

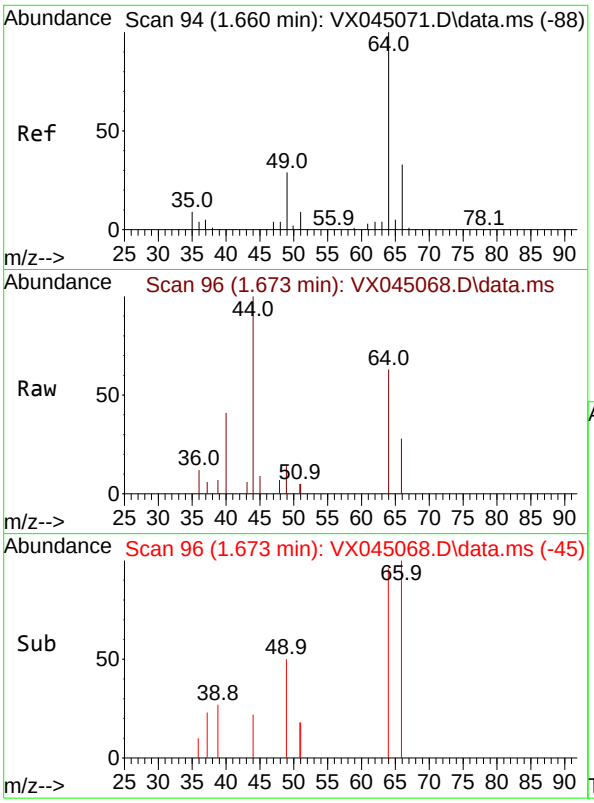


#4
Vinyl Chloride
Concen: 1.008 ug/l
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 62 Resp: 1588

Ion	Ratio	Lower	Upper
62	100		
64	22.0	24.3	36.5#

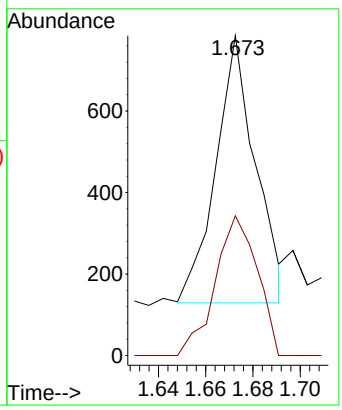




#6
Chloroethane
Concen: 0.992 ug/l m
RT: 1.673 min Scan# 9
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 64 Resp: 76

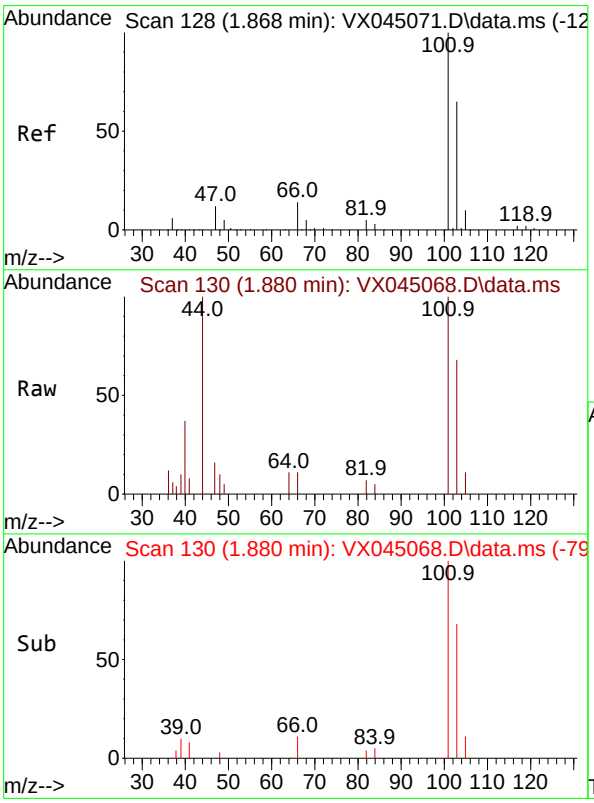
Ion	Ratio	Lower	Upper
64	100		
66	43.7	26.7	40.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

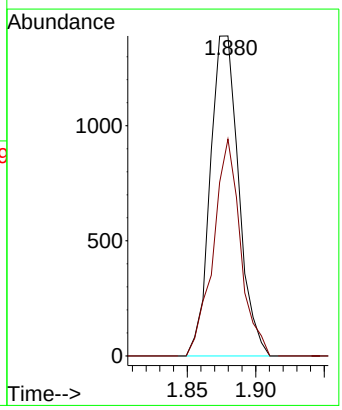
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

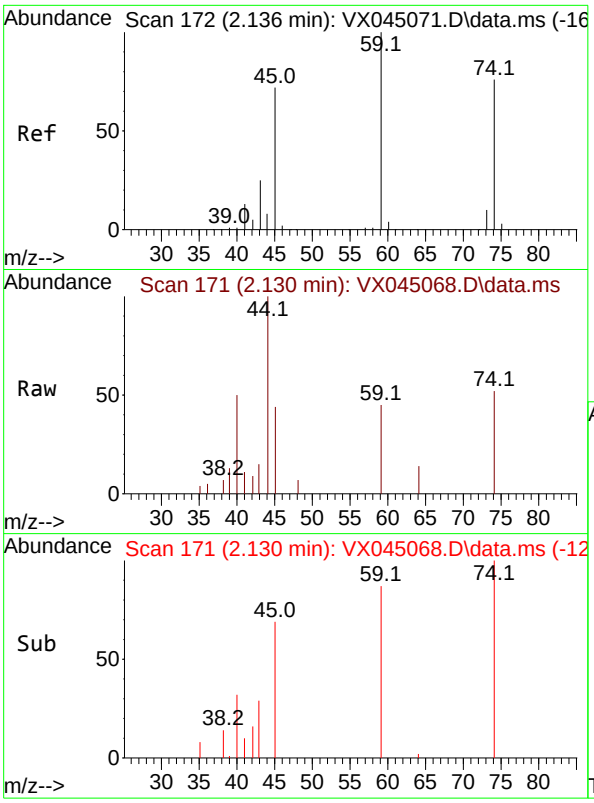


#7
Trichlorofluoromethane
Concen: 0.957 ug/l
RT: 1.880 min Scan# 130
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:101 Resp: 2011

Ion	Ratio	Lower	Upper
101	100		
103	67.8	52.1	78.1





#8
Diethyl Ether
Concen: 1.045 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

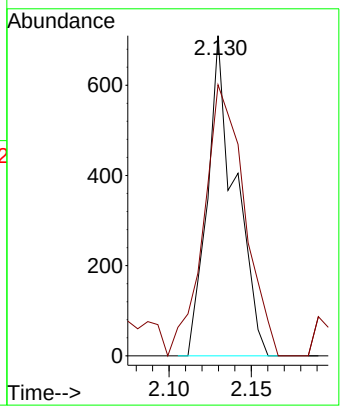
Tgt Ion: 74 Resp: 83

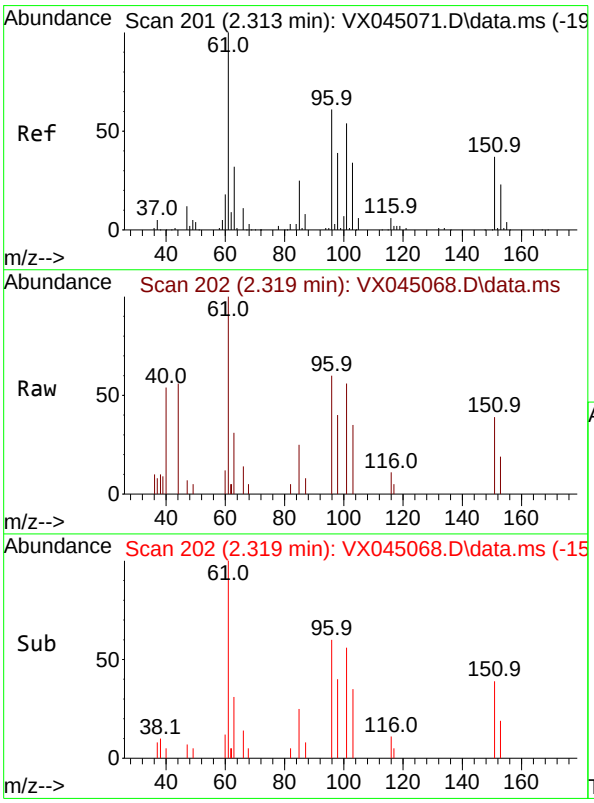
Ion	Ratio	Lower	Upper
74	100		
45	123.5	51.5	154.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

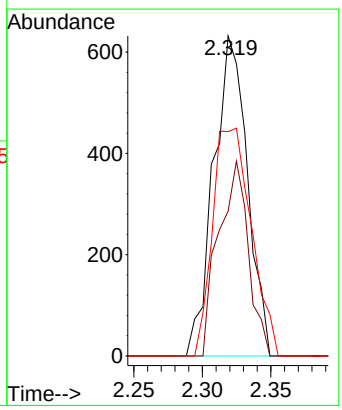


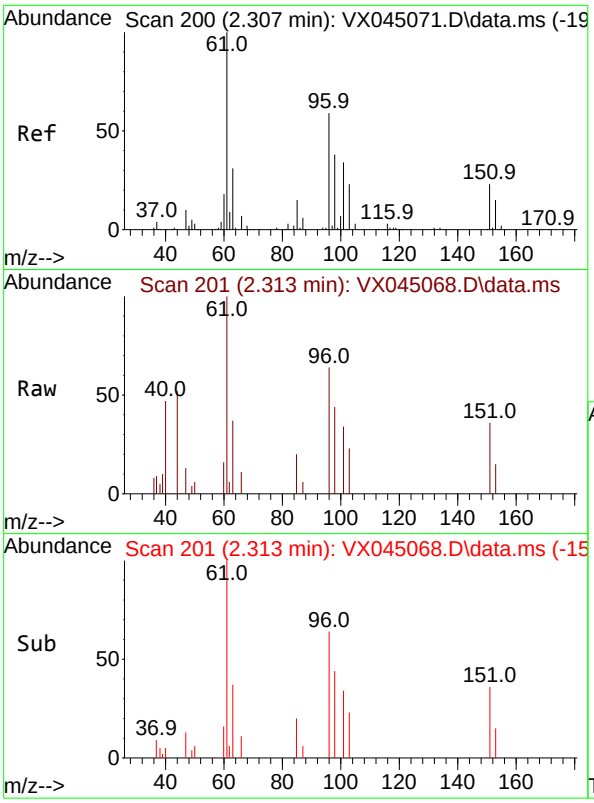


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.884 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:101 Resp: 1081

Ion	Ratio	Lower	Upper
101	100		
85	53.7	36.2	54.4
151	81.9	56.4	84.6

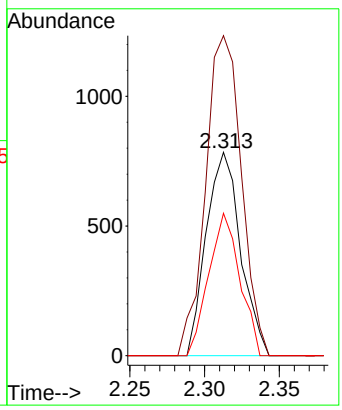




#12
1,1-Dichloroethene
Concen: 0.991 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 96 Resp: 125

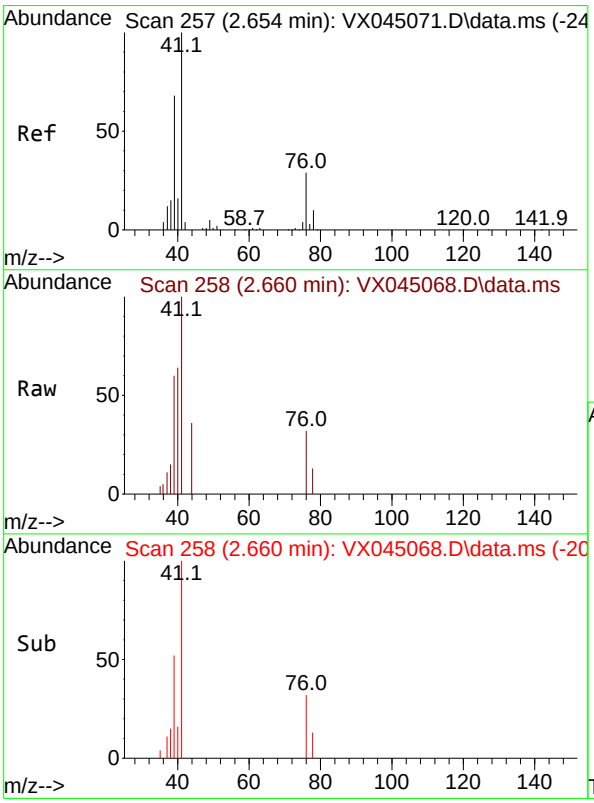
Ion	Ratio	Lower	Upper
96	100		
61	157.4	134.6	202.0
98	70.0	51.0	76.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

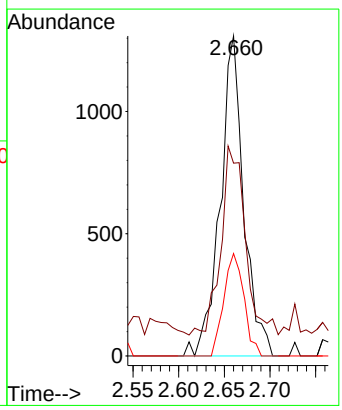
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

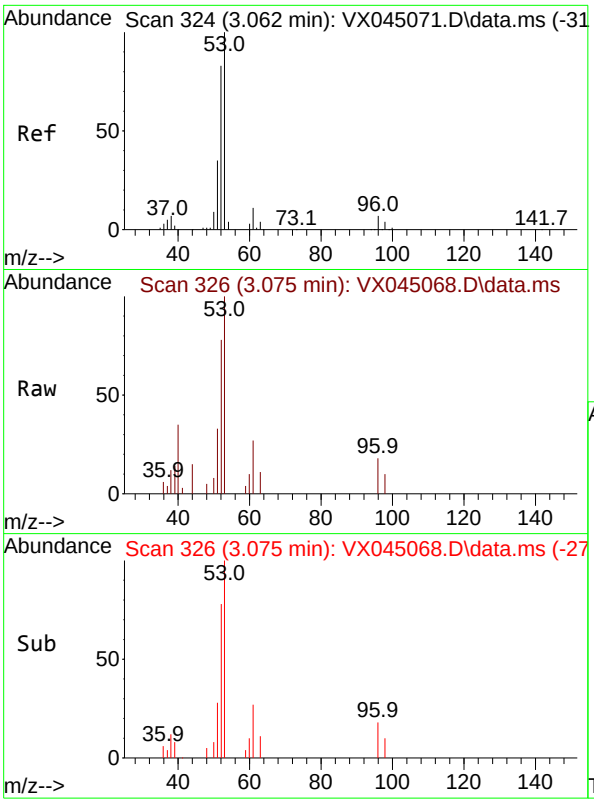


#14
Allyl chloride
Concen: 1.055 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 2343

Ion	Ratio	Lower	Upper
41	100		
39	62.3	53.8	80.8
76	27.4	25.2	37.8

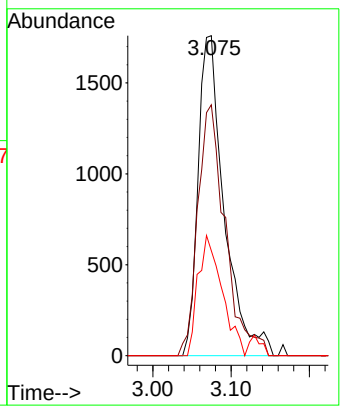




#15
Acrylonitrile
Concen: 4.931 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 53 Resp: 406

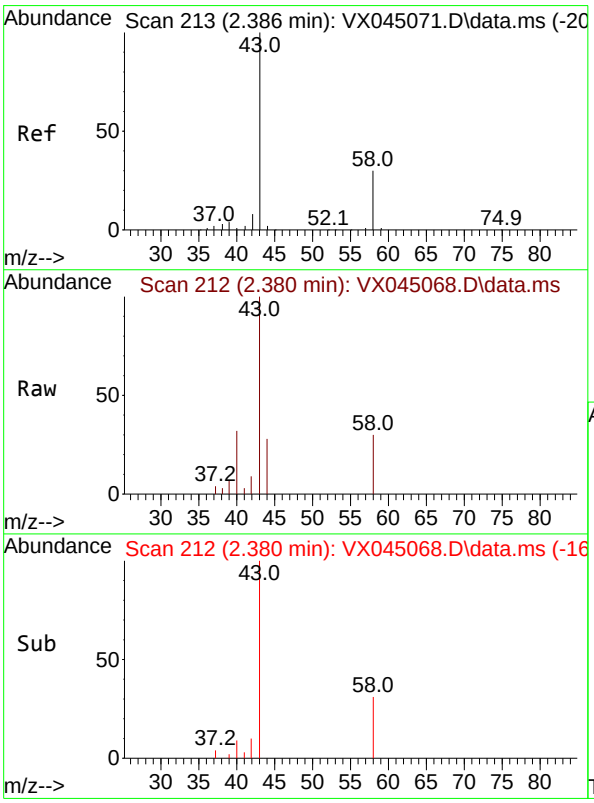
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	34.6	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

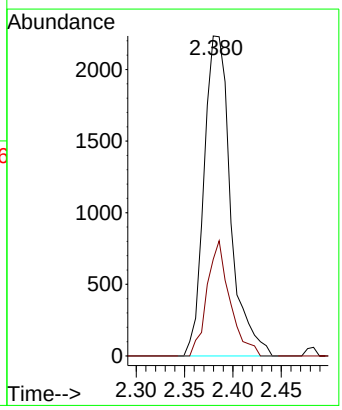
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

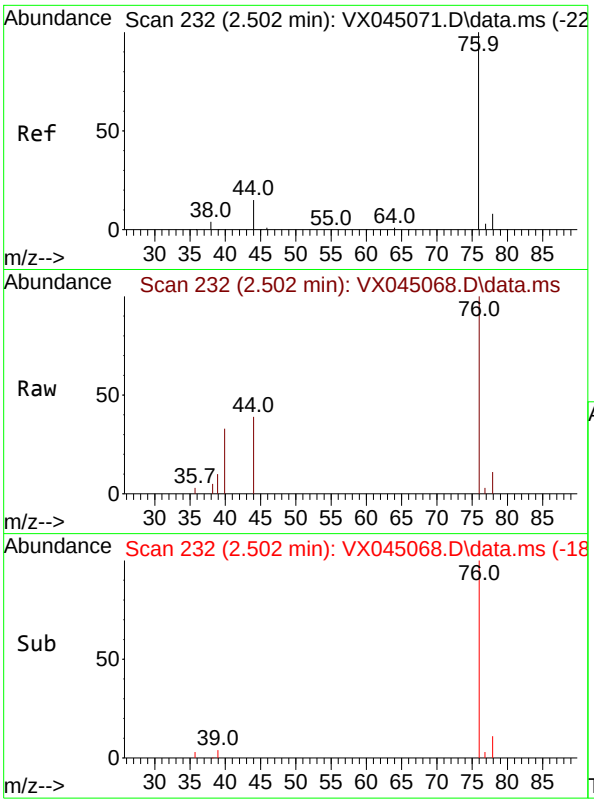


#16
Acetone
Concen: 5.635 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 4259

Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.2	36.4





#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

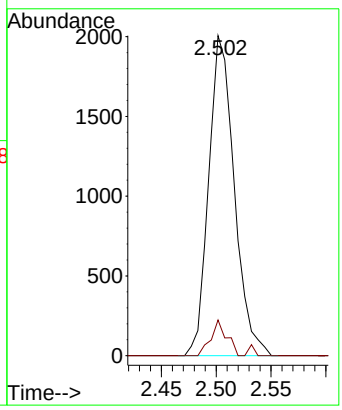
Tgt Ion: 76 Resp: 325

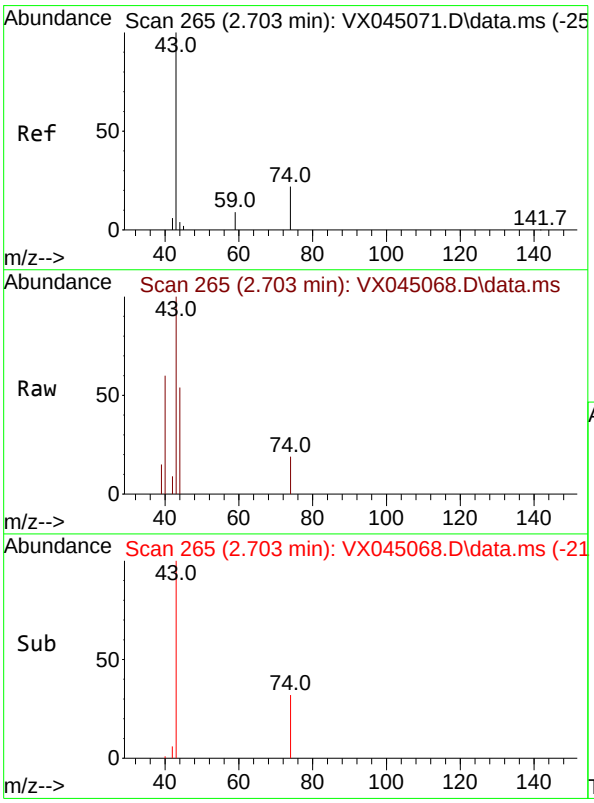
Ion	Ratio	Lower	Upper
76	100		
78	11.2	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

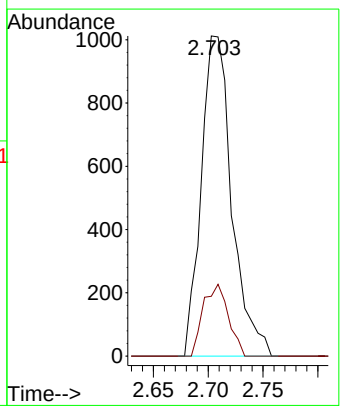


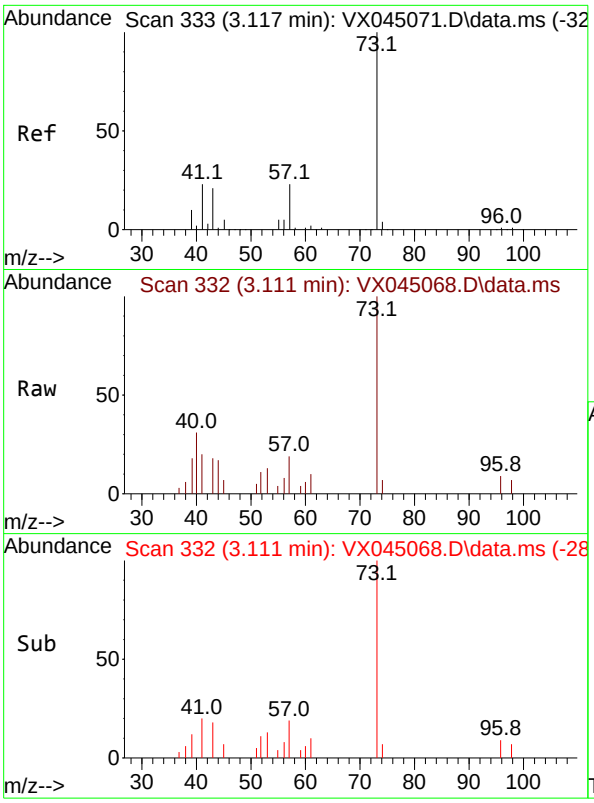


#18
Methyl Acetate
Concen: 1.066 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 1960

Ion	Ratio	Lower	Upper
43	100		
74	18.5	17.4	26.2

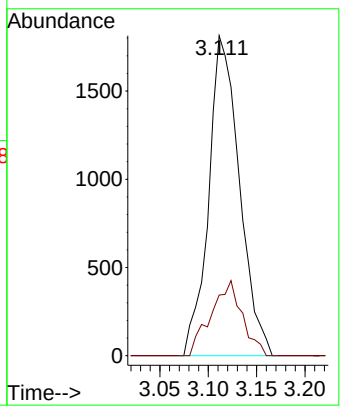




#19
Methyl tert-butyl Ether
Concen: 0.943 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 73 Resp: 401

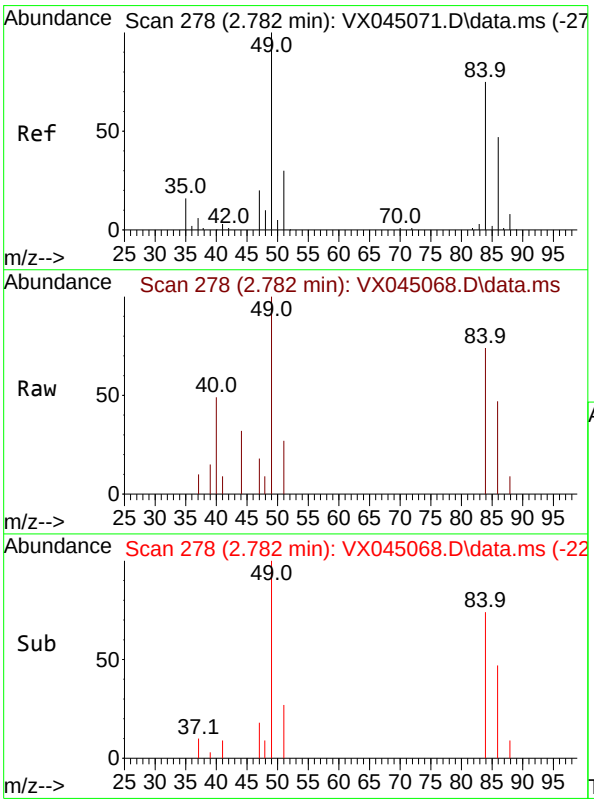
Ion	Ratio	Lower	Upper
73	100		
57	19.0	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

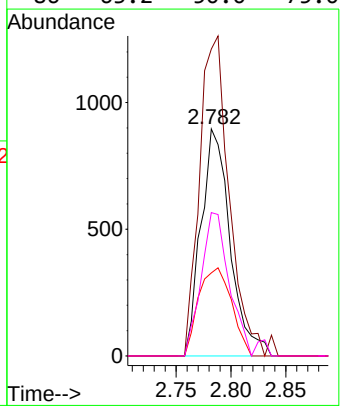
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

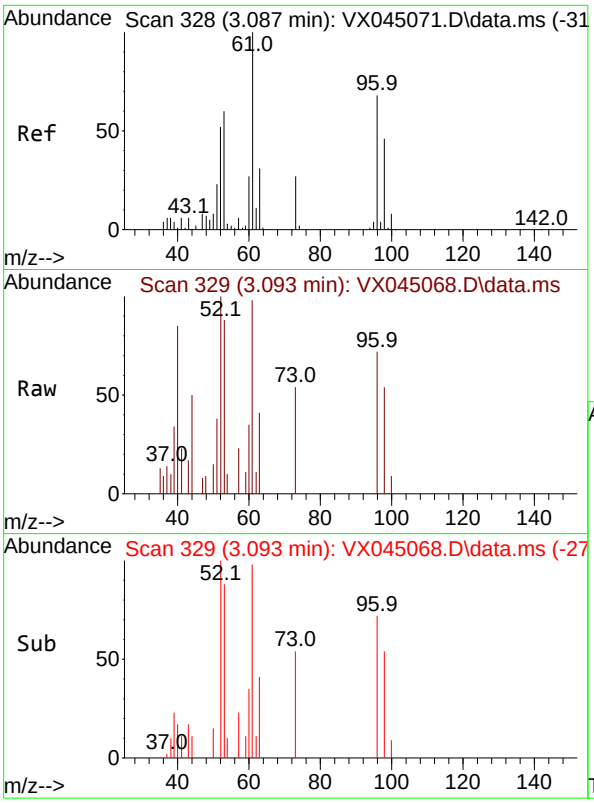


#20
Methylene Chloride
Concen: 1.095 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 84 Resp: 1656

Ion	Ratio	Lower	Upper
84	100		
49	135.2	106.5	159.7
51	36.6	32.1	48.1
86	63.2	50.0	75.0

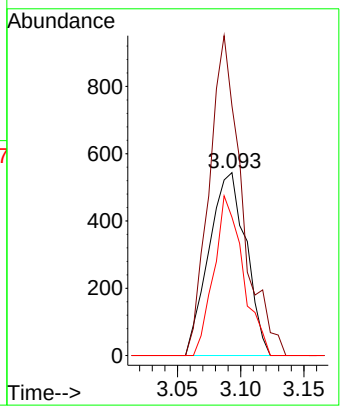




#21
trans-1,2-Dichloroethene
Concen: 0.869 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 96 Resp: 110

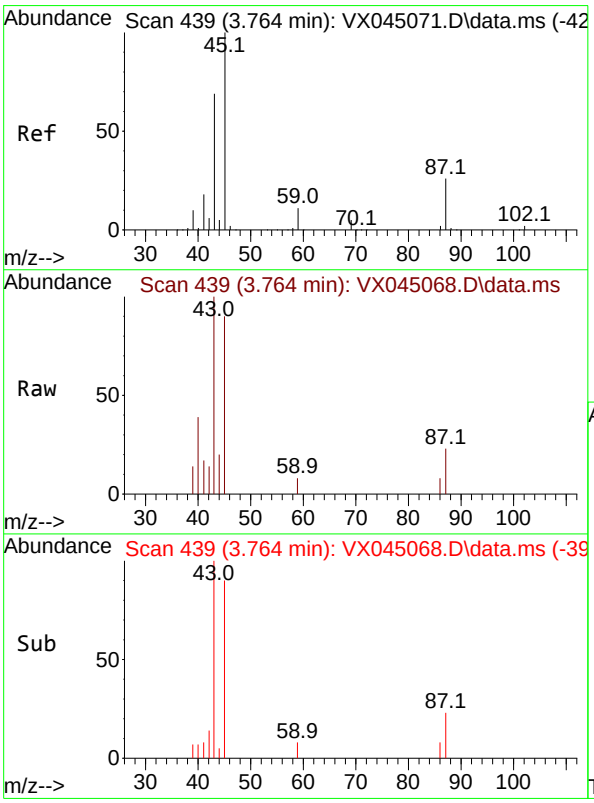
Ion	Ratio	Lower	Upper
96	100		
61	136.4	117.0	175.4
98	75.6	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

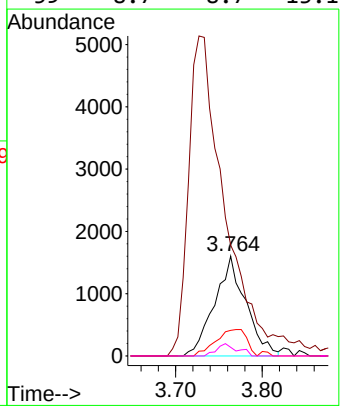
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

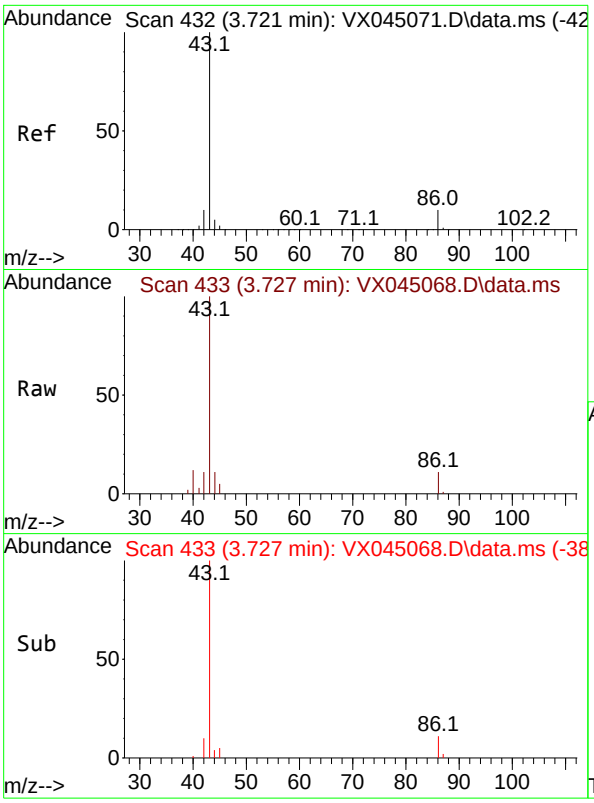


#22
Diisopropyl ether
Concen: 0.871 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 45 Resp: 4026

Ion	Ratio	Lower	Upper
45	100		
43	91.9	54.9	82.3#
87	25.6	21.0	31.4
59	8.7	8.7	13.1





#23
Vinyl Acetate
Concen: 3.971 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

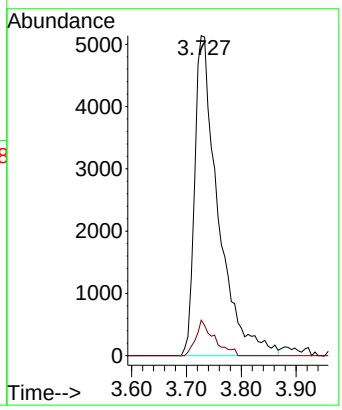
Tgt Ion: 43 Resp: 1527

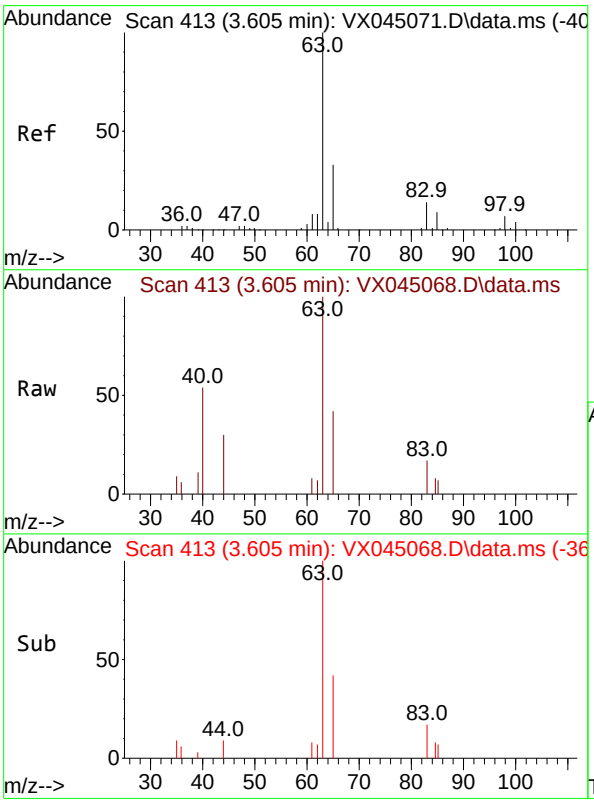
Ion	Ratio	Lower	Upper
43	100		
86	11.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

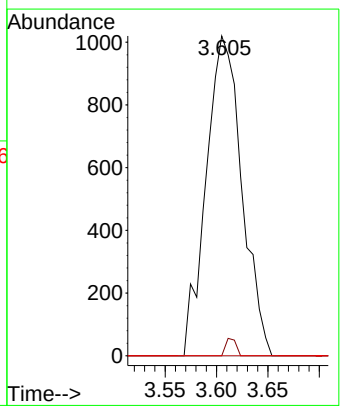


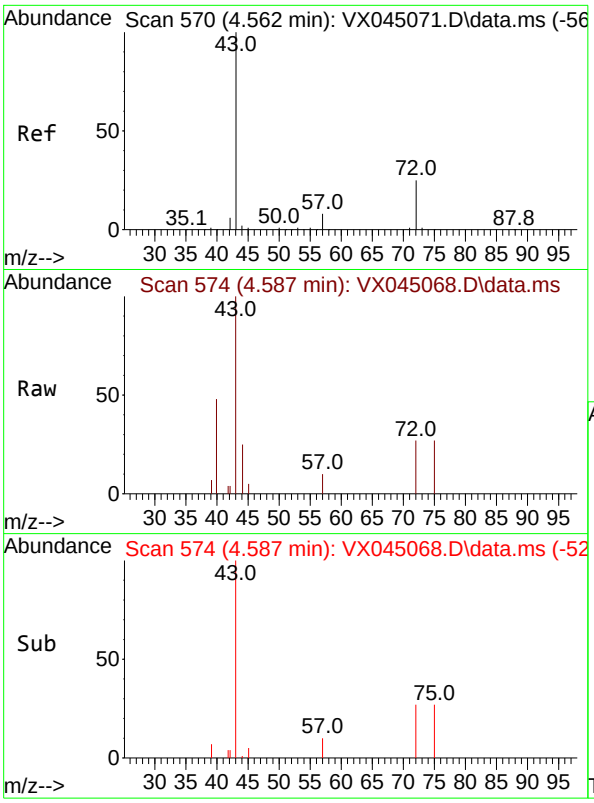


#24
1,1-Dichloroethane
Concen: 0.958 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 2467

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.4	10.2#
100	0.0	2.1	6.5#





#25
2-Butanone
Concen: 4.252 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

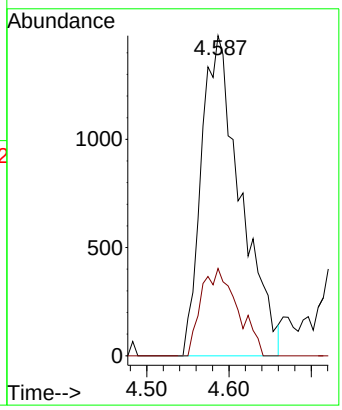
Tgt Ion: 43 Resp: 489

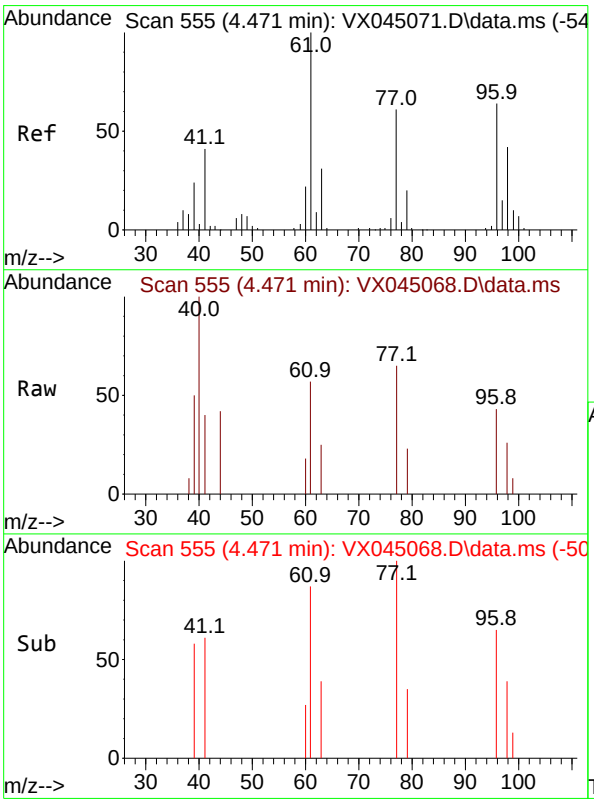
Ion	Ratio	Lower	Upper
43	100		
72	27.2	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

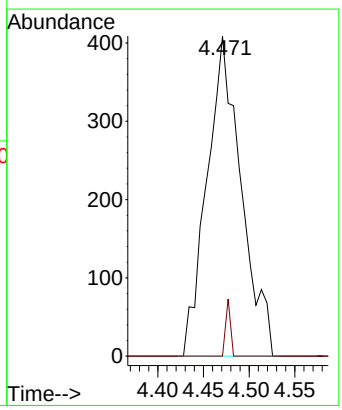


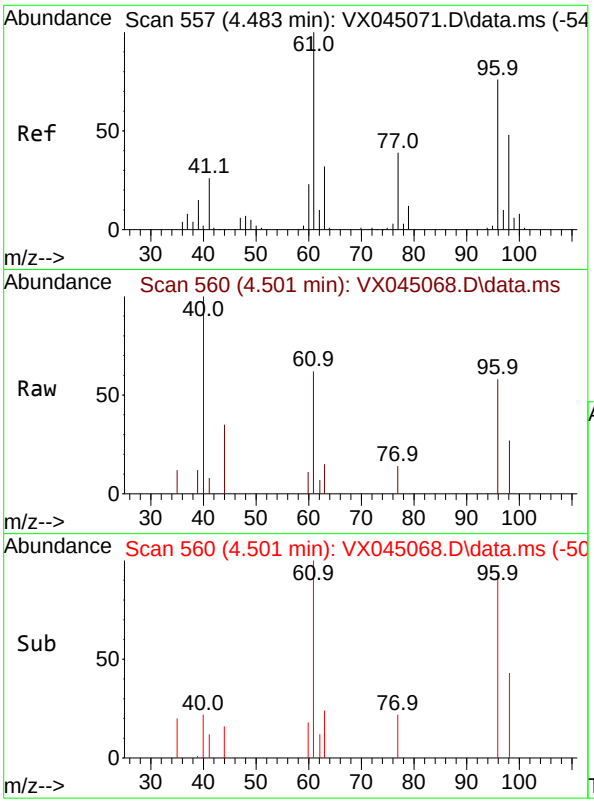


#26
2,2-Dichloropropane
Concen: 0.872 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 77 Resp: 1066

Ion	Ratio	Lower	Upper
77	100		
97	2.5	12.4	37.0#

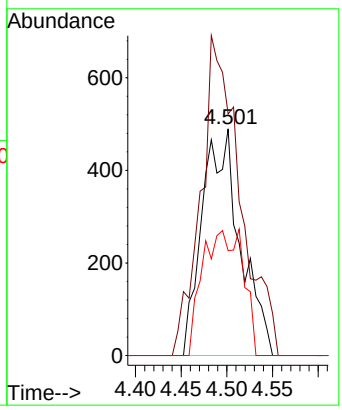




#27
cis-1,2-Dichloroethene
Concen: 0.902 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 96 Resp: 141

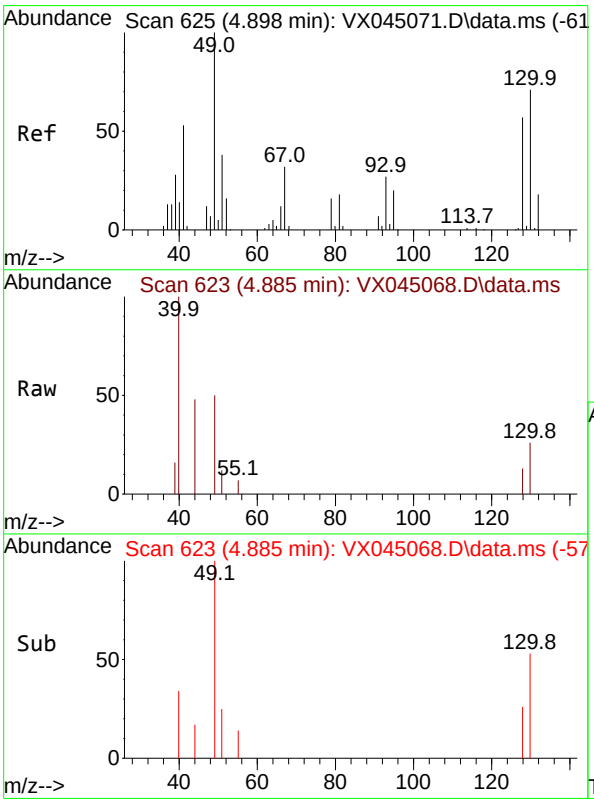
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	283.2
98	59.1	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

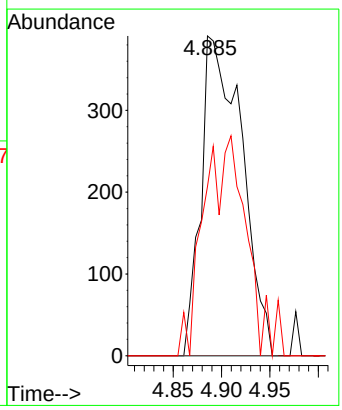
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

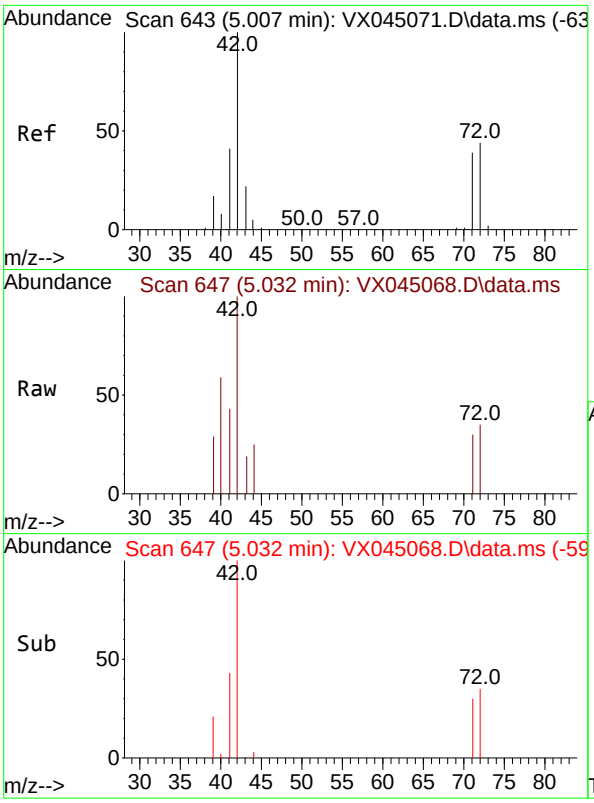


#28
Bromochloromethane
Concen: 0.958 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 49 Resp: 1144

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	31.5	56.1	84.1#

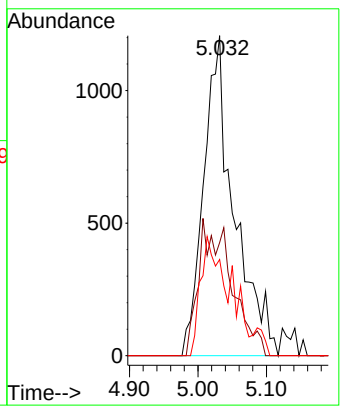




#29
Tetrahydrofuran
Concen: 4.809 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 42 Resp: 3719

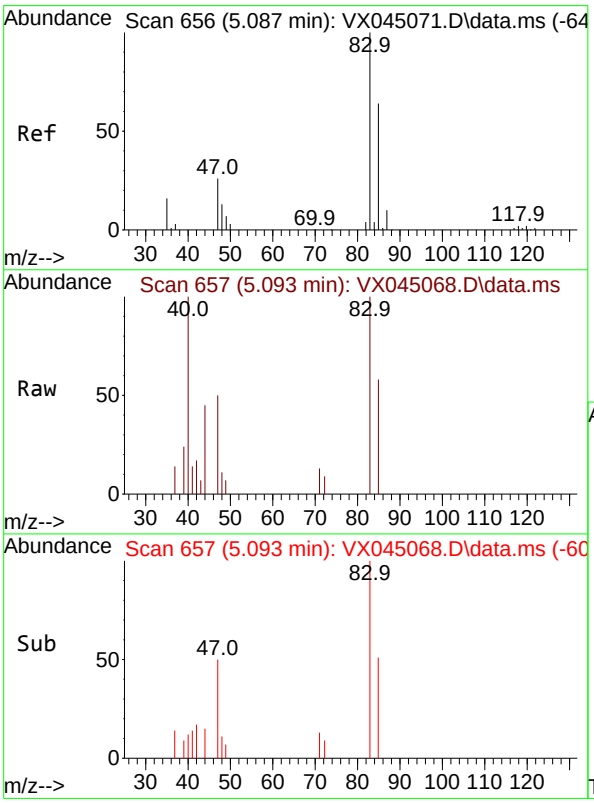
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.1	51.1#
71	0.0	31.4	47.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

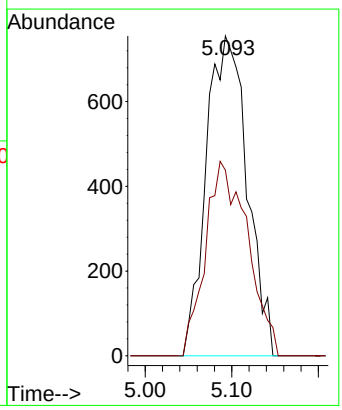
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

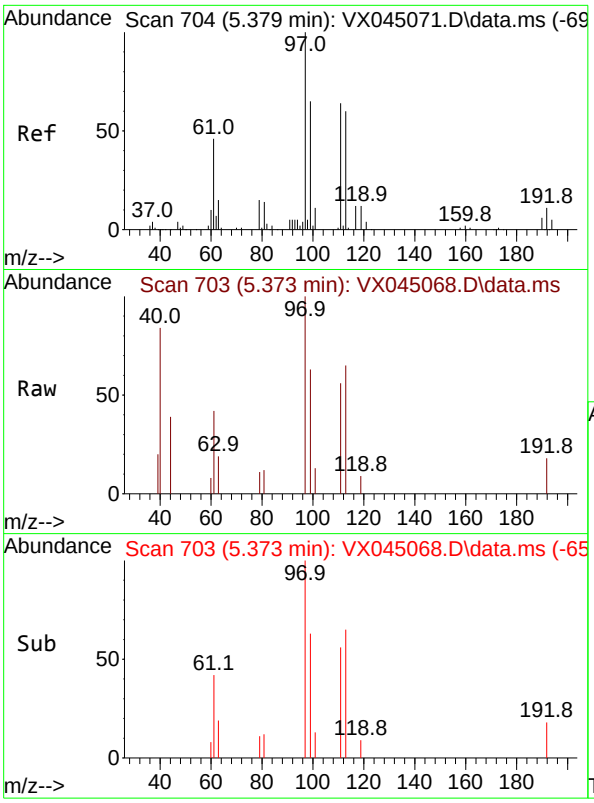


#30
Chloroform
Concen: 0.978 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 2478

Ion	Ratio	Lower	Upper
83	100		
85	58.0	51.4	77.2

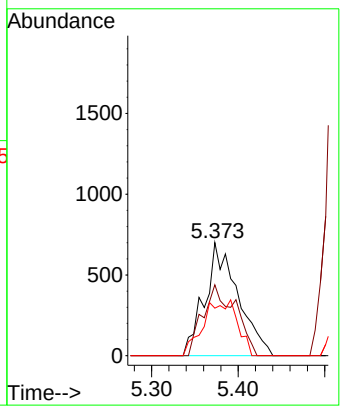




#32
1,1,1-Trichloroethane
Concen: 0.893 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 97 Resp: 186

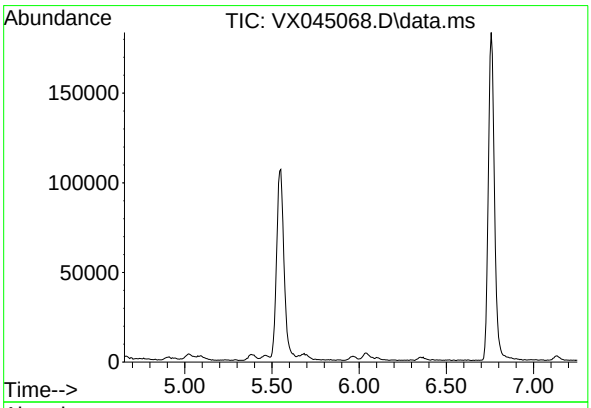
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	50.0	38.4	57.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

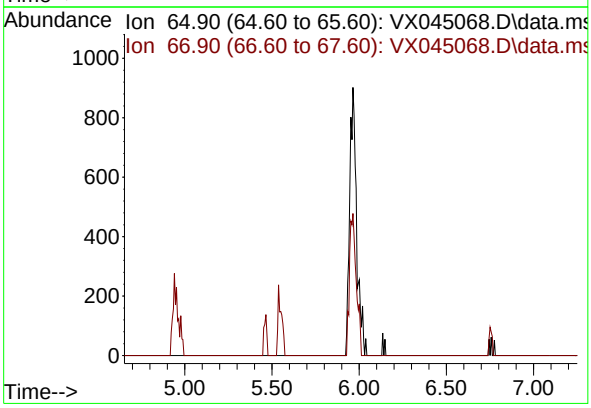


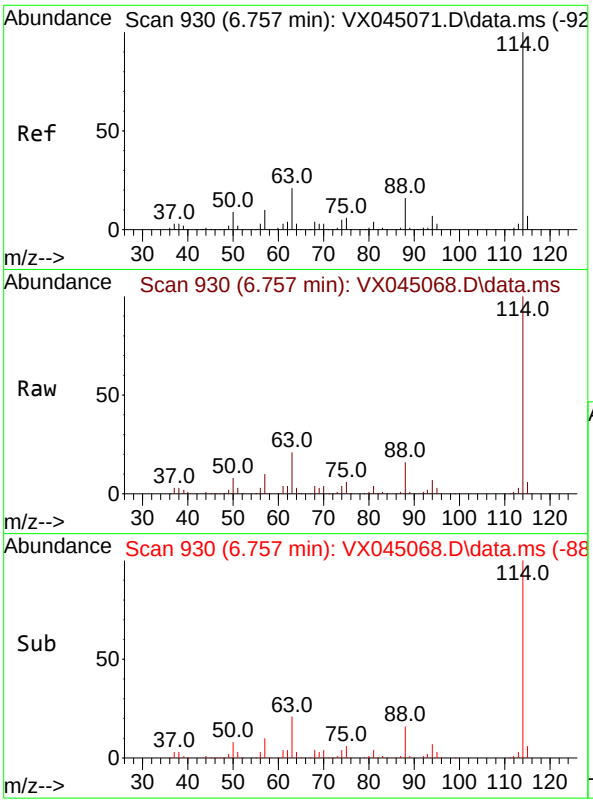
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	53.1

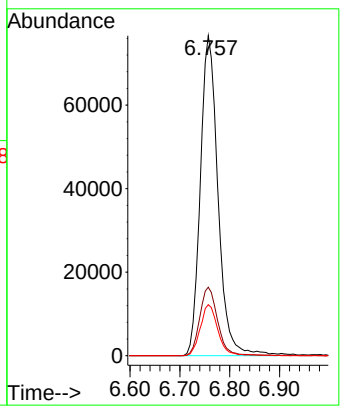




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:114 Resp: 18864

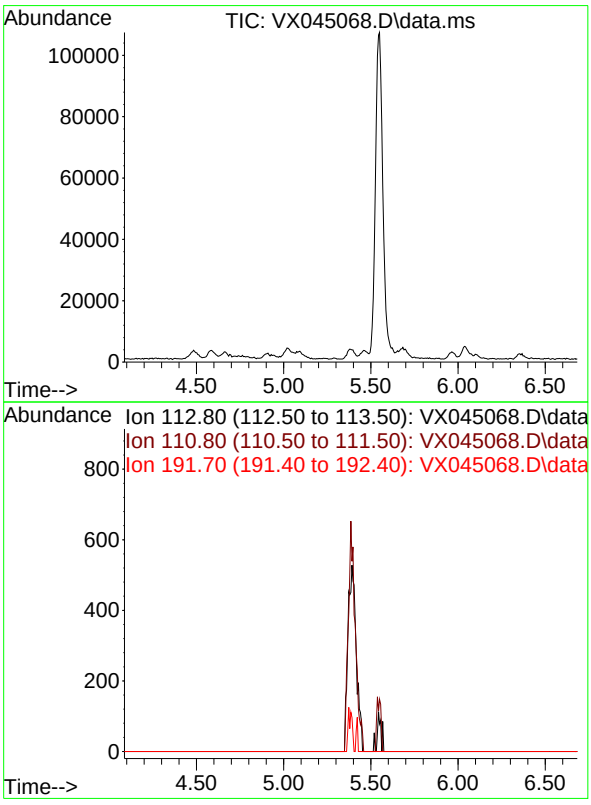
Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	41.8
88	16.0	0.0	32.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

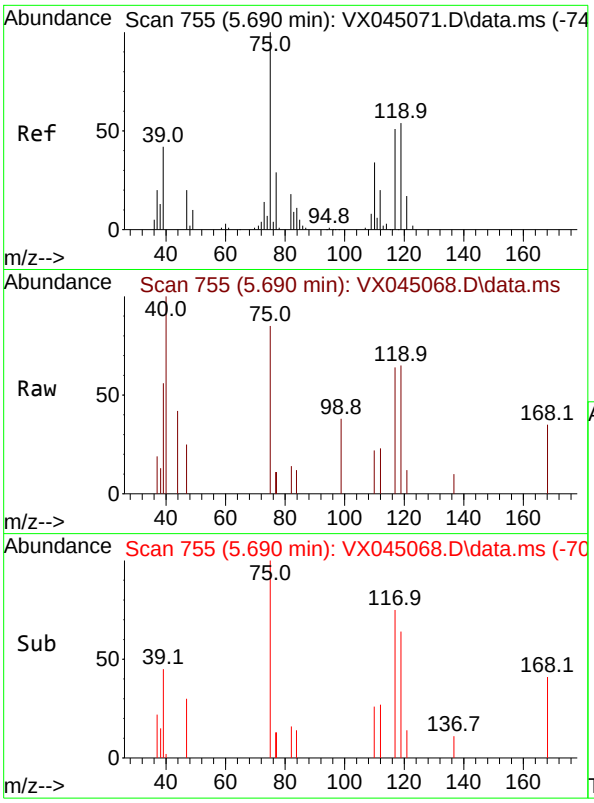


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 113

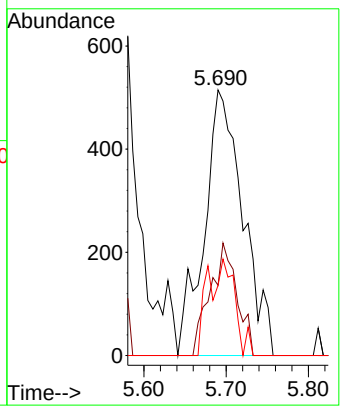
Sig	Exp Ratio
113	100
111	102.2
192	17.9



#36
1,1-Dichloropropene
Concen: 0.967 ug/l
RT: 5.690 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 168

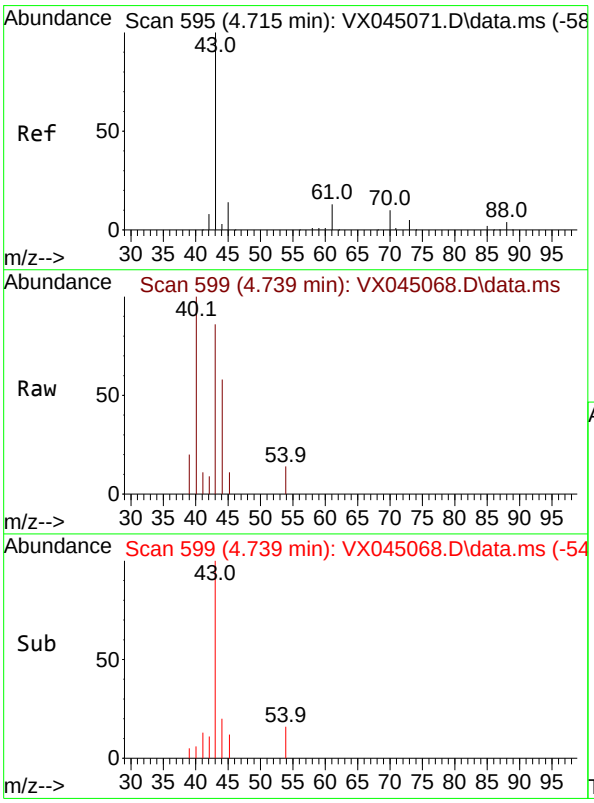
Ion	Ratio	Lower	Upper
75	100		
110	29.6	16.9	50.6
77	16.4	24.5	36.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

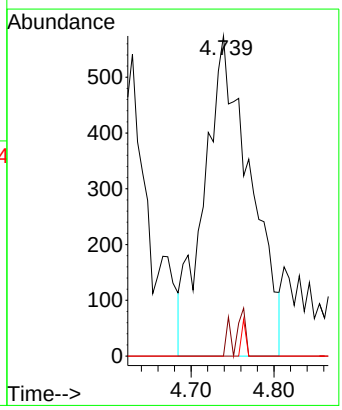
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

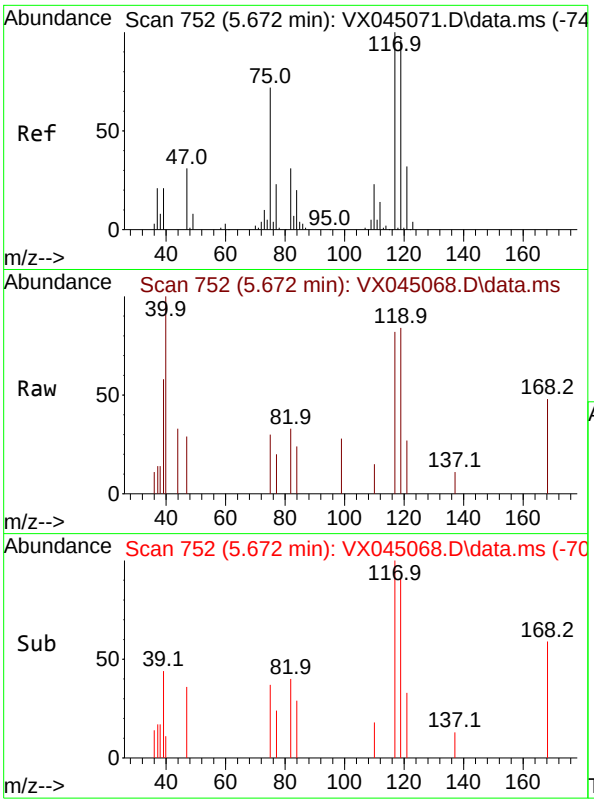


#37
Ethyl Acetate
Concen: 0.988 ug/l m
RT: 4.739 min Scan# 599
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 2223

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.8	16.2#
70	0.0	7.7	11.5#

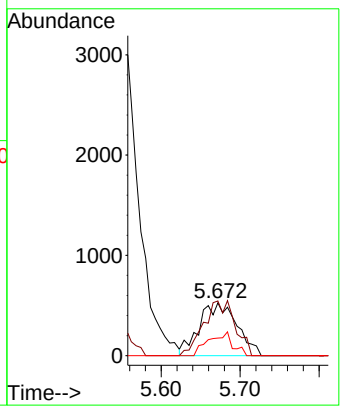




#38
Carbon Tetrachloride
Concen: 0.987 ug/l m
RT: 5.672 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:117 Resp: 174

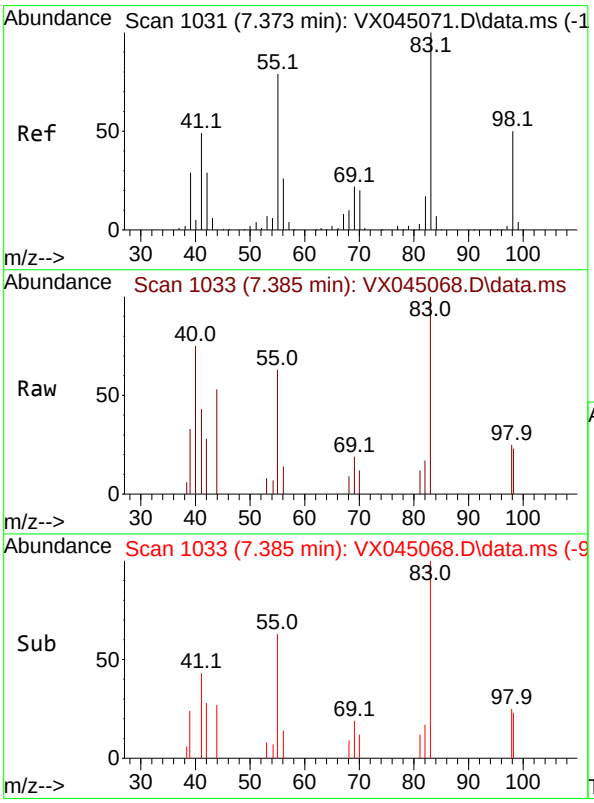
Ion	Ratio	Lower	Upper
117	100		
119	103.4	76.7	115.1
121	33.2	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

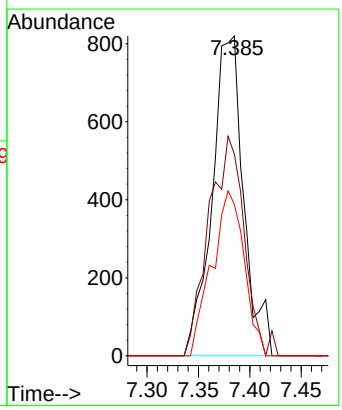
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

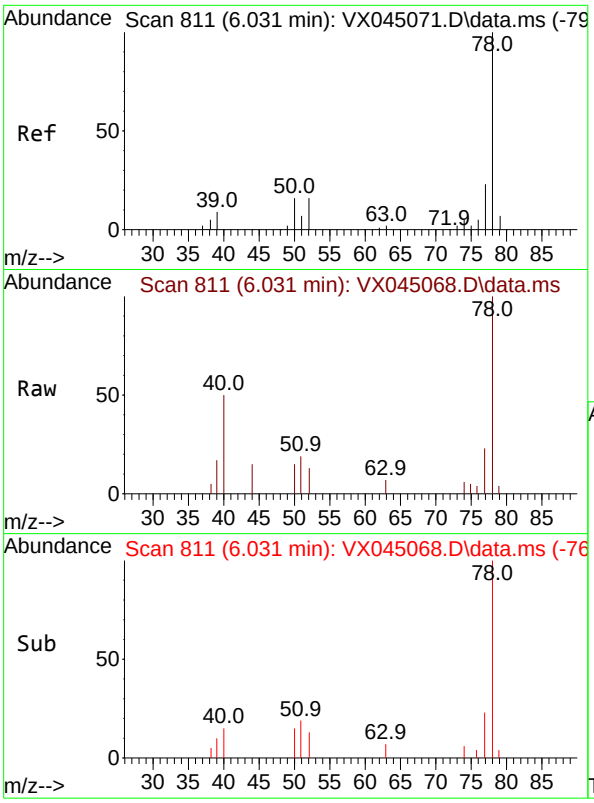


#39
Methylcyclohexane
Concen: 0.831 ug/l
RT: 7.385 min Scan# 1033
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 1750

Ion	Ratio	Lower	Upper
83	100		
55	63.0	63.0	94.4
98	47.3	39.7	59.5

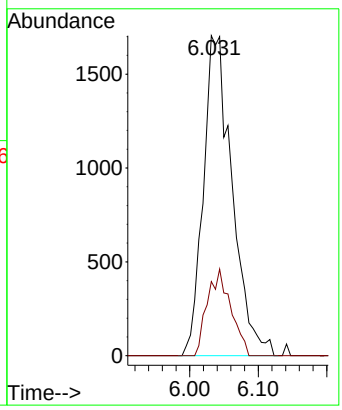




#40
Benzene
Concen: 0.907 ug/l
RT: 6.031 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 78 Resp: 498

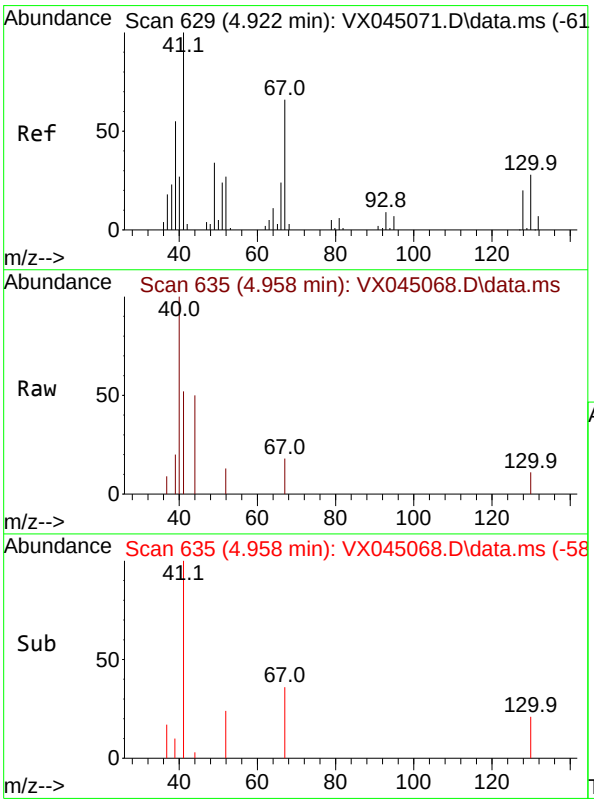
Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

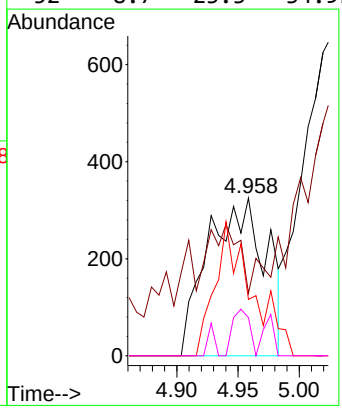
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

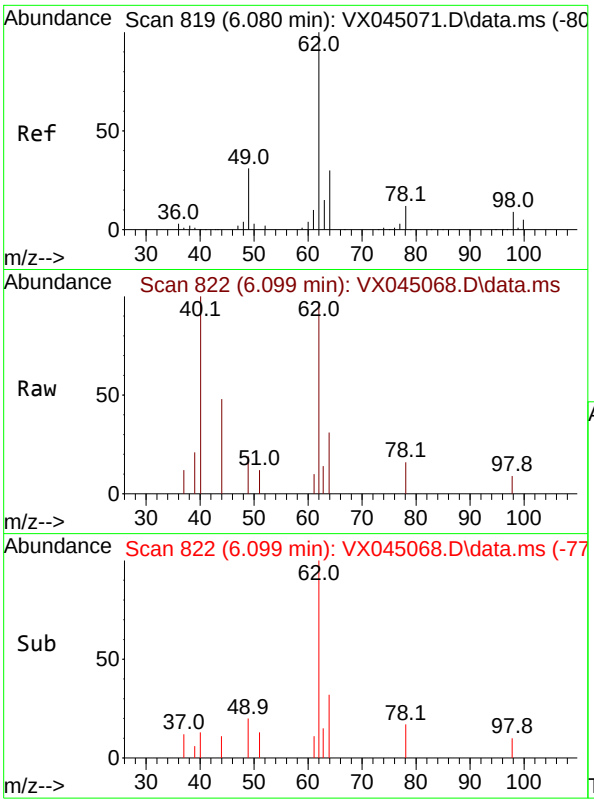


#41
Methacrylonitrile
Concen: 0.879 ug/l m
RT: 4.958 min Scan# 635
Delta R.T. 0.037 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 1072

Ion	Ratio	Lower	Upper
41	100		
39	29.2	44.6	67.0#
67	53.9	53.9	80.9#
52	8.7	23.3	34.9#

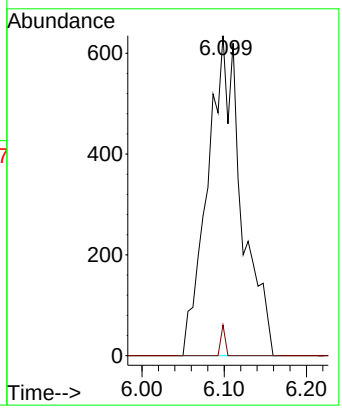




#42
1,2-Dichloroethane
Concen: 0.924 ug/l
RT: 6.099 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 62 Resp: 183

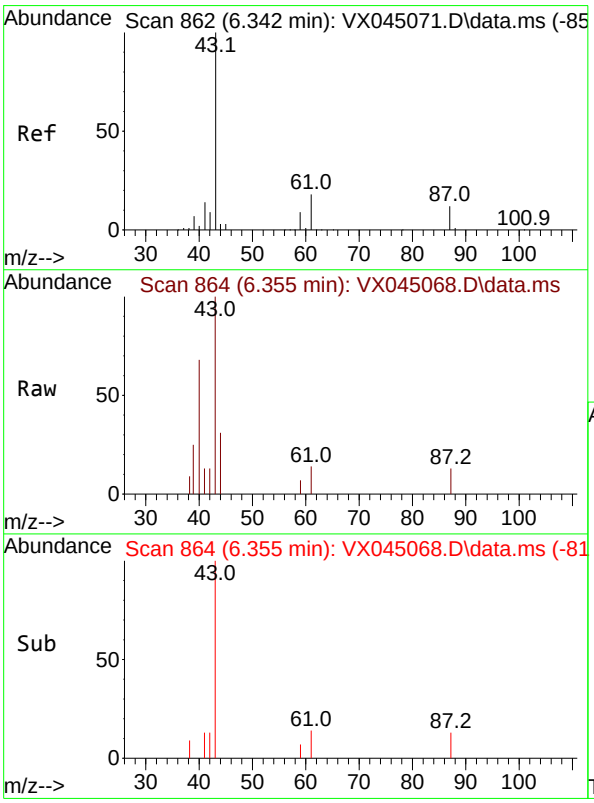
Ion	Ratio	Lower	Upper
62	100		
98	1.2	0.0	18.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

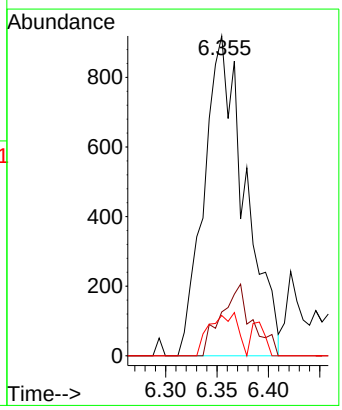
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

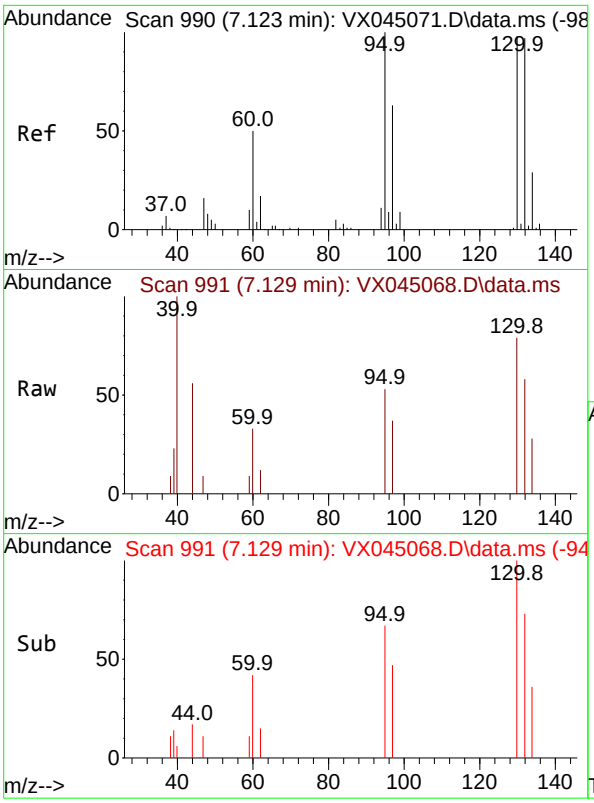


#43
Isopropyl Acetate
Concen: 0.767 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 2545

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.9	22.3
87	9.2	9.4	14.2#

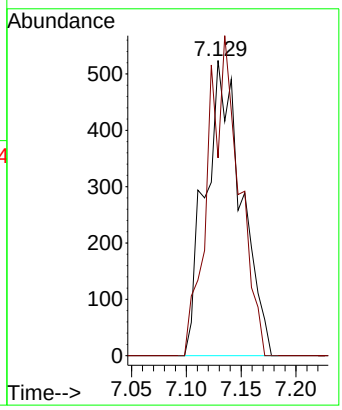




#44
Trichloroethene
Concen: 0.933 ug/l
RT: 7.129 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:130 Resp: 120

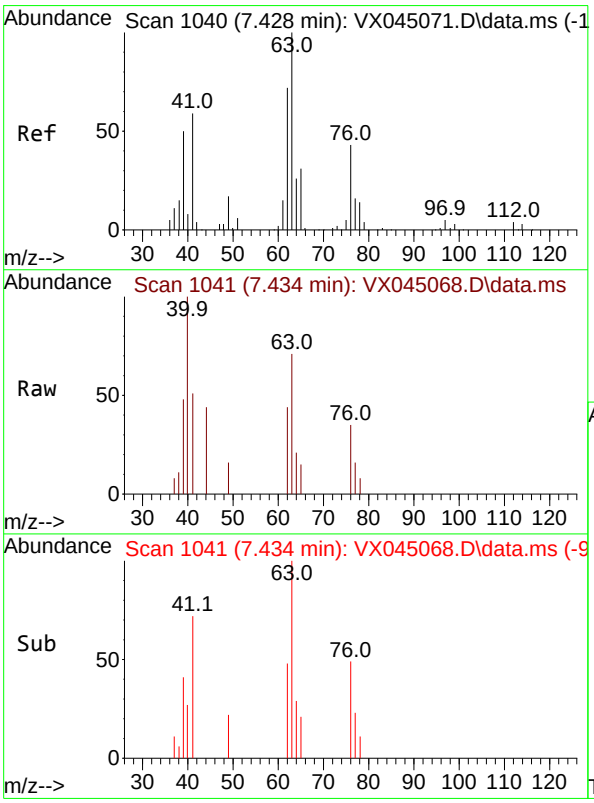
Ion	Ratio	Lower	Upper
130	100		
95	67.0	0.0	205.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

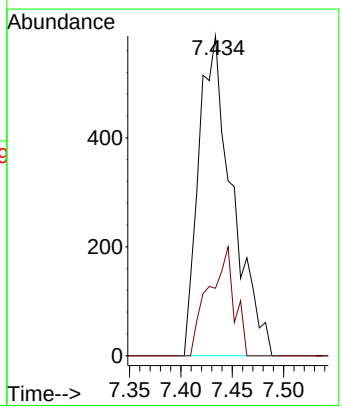
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

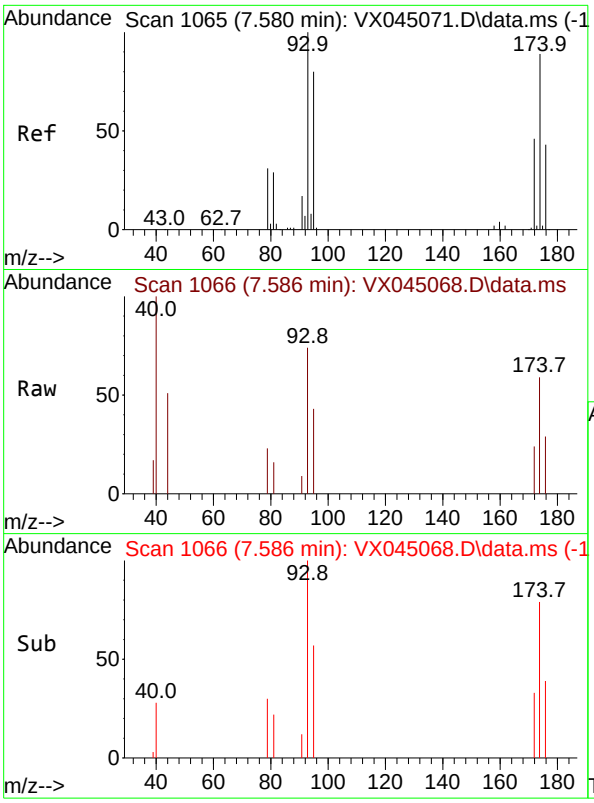


#45
1,2-Dichloropropane
Concen: 0.971 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 1334

Ion	Ratio	Lower	Upper
63	100		
65	21.1	24.7	37.1#

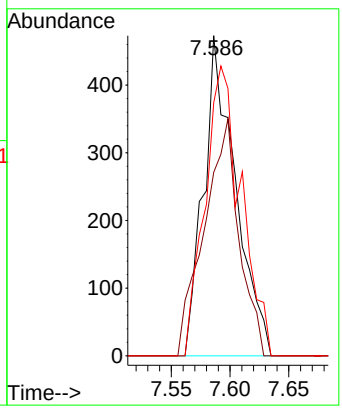




#46
Dibromomethane
Concen: 0.897 ug/l
RT: 7.586 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 93 Resp: 89

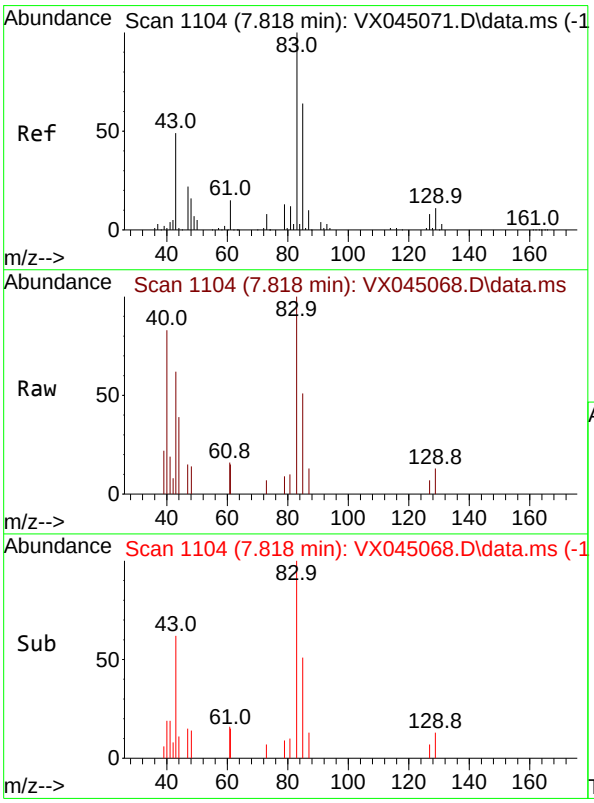
Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.8	98.8
174	102.8	72.2	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

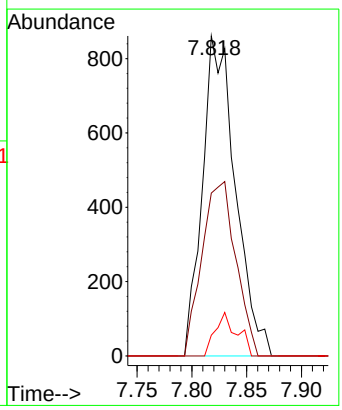
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

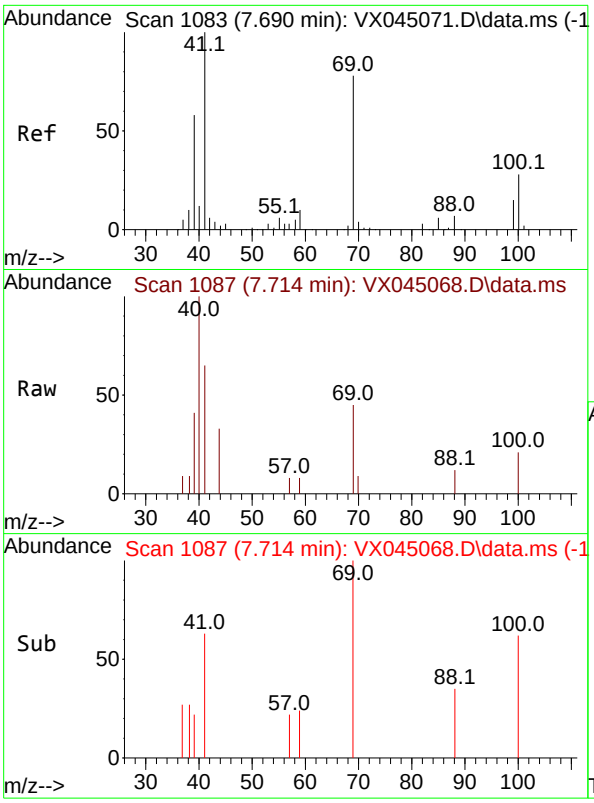


#47
Bromodichloromethane
Concen: 0.927 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 1802

Ion	Ratio	Lower	Upper
83	100		
85	50.9	51.1	76.7#
127	6.5	6.4	9.6

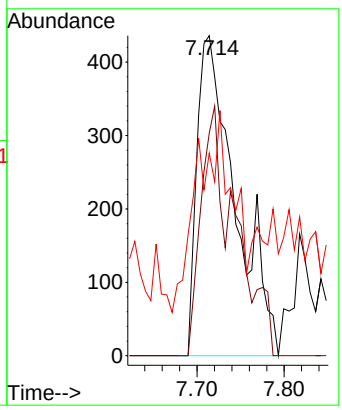




#48
Methyl methacrylate
Concen: 0.825 ug/l m
RT: 7.714 min Scan# 1
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 132

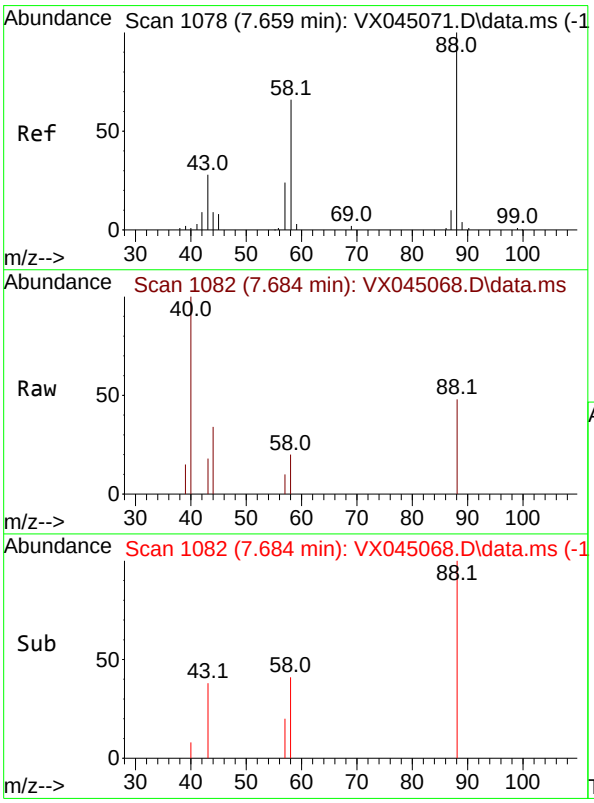
Ion	Ratio	Lower	Upper
41	100		
69	41.4	63.0	94.6#
39	20.7	47.5	71.3#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

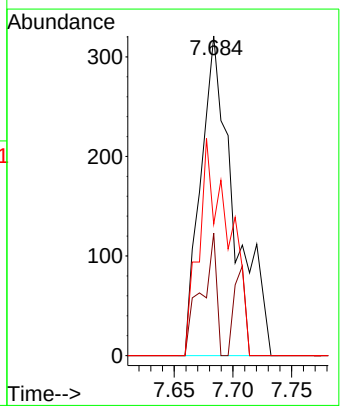
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

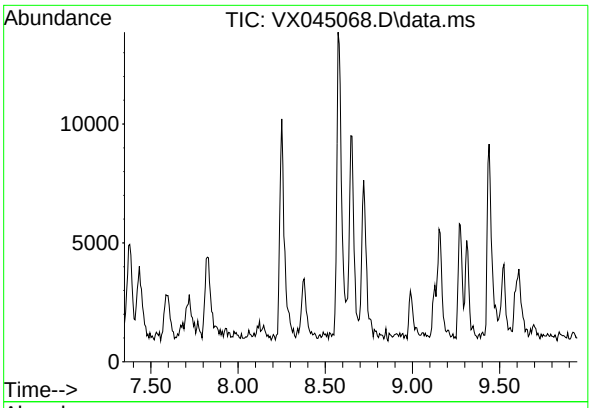


#49
1,4-Dioxane
Concen: 18.144 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 88 Resp: 639

Ion	Ratio	Lower	Upper
88	100		
43	17.2	28.7	43.1#
58	59.9	55.8	83.8





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

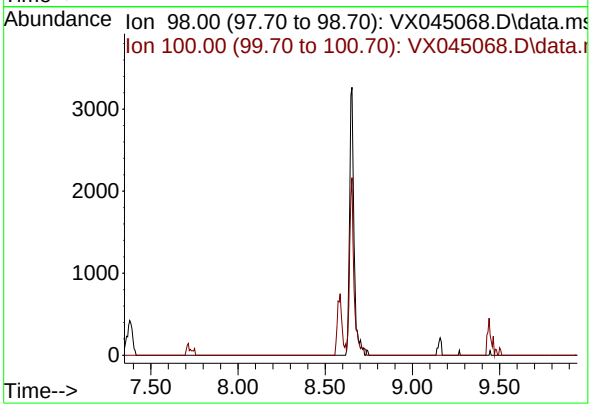
Tgt Ion: 98

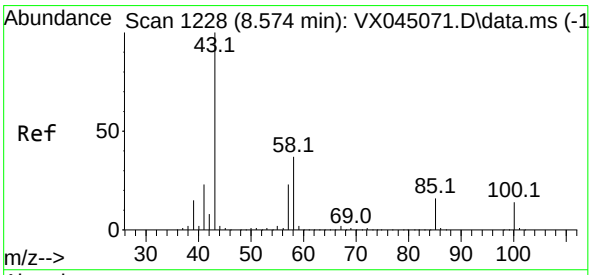
Sig	Exp Ratio
98	100
100	65.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

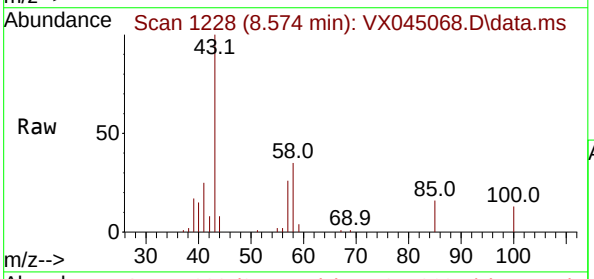


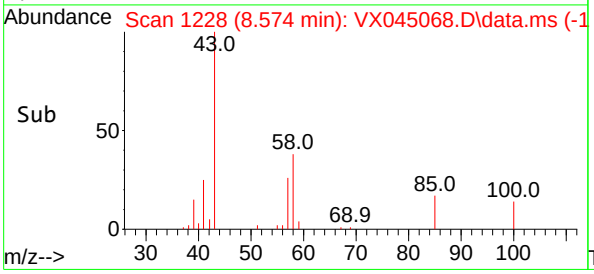


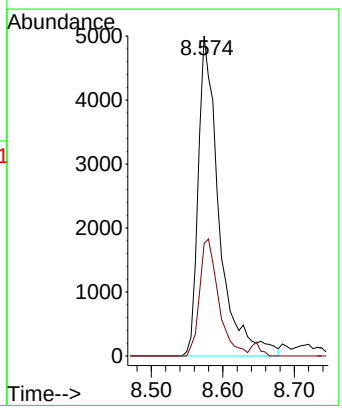
#51
4-Methyl-2-Pentanone
Concen: 4.567 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

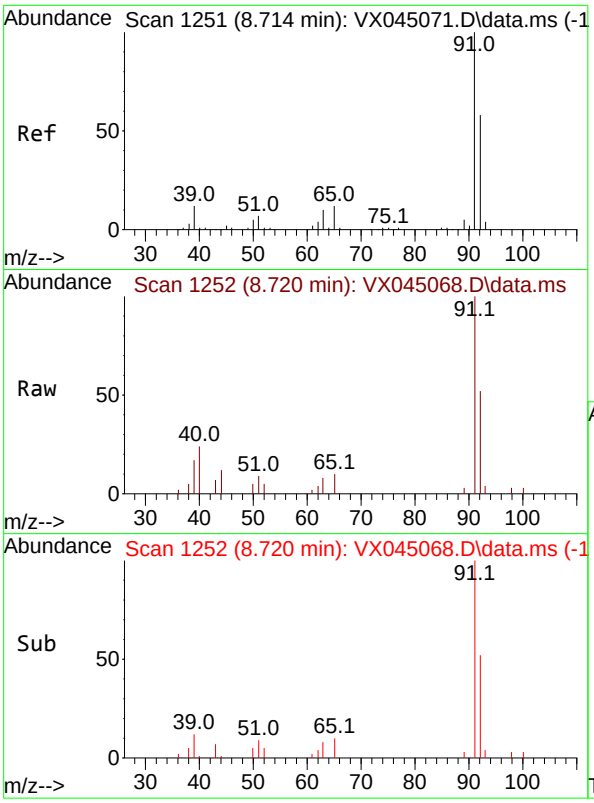
Tgt Ion: 43 Resp: 10091

Ion	Ratio	Lower	Upper
43	100		
58	33.5	29.2	43.8





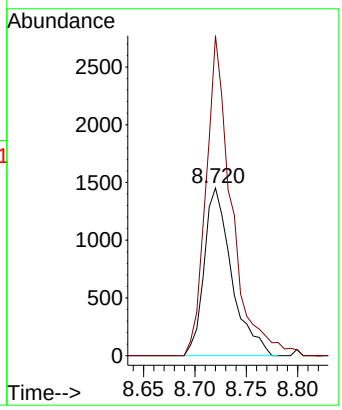




#52
Toluene
Concen: 0.841 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 92 Resp: 270

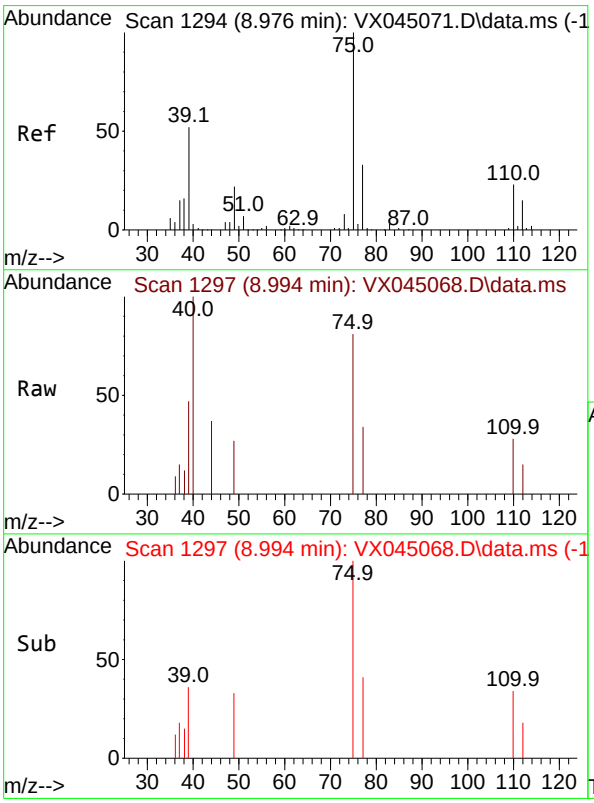
Ion	Ratio	Lower	Upper
92	100		
91	177.7	138.9	208.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

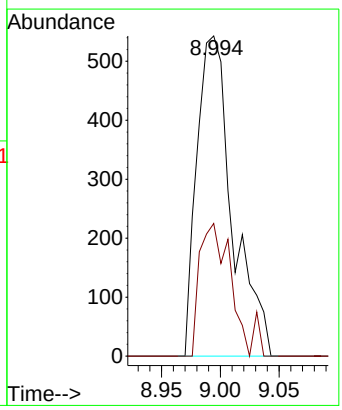
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

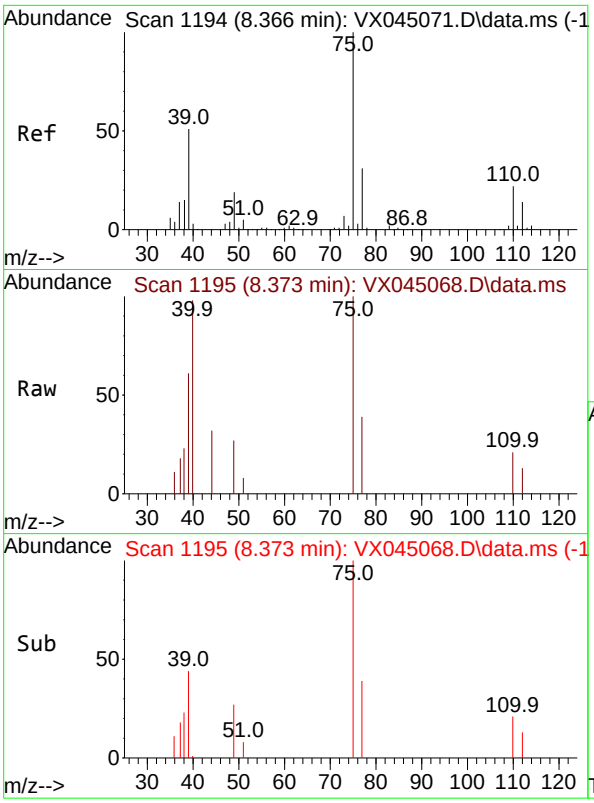


#53
t-1,3-Dichloropropene
Concen: 0.700 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 1147

Ion	Ratio	Lower	Upper
75	100		
77	41.4	26.5	39.7#

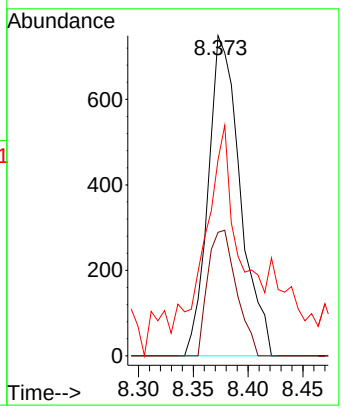




#54
cis-1,3-Dichloropropene
Concen: 0.804 ug/l
RT: 8.373 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 152

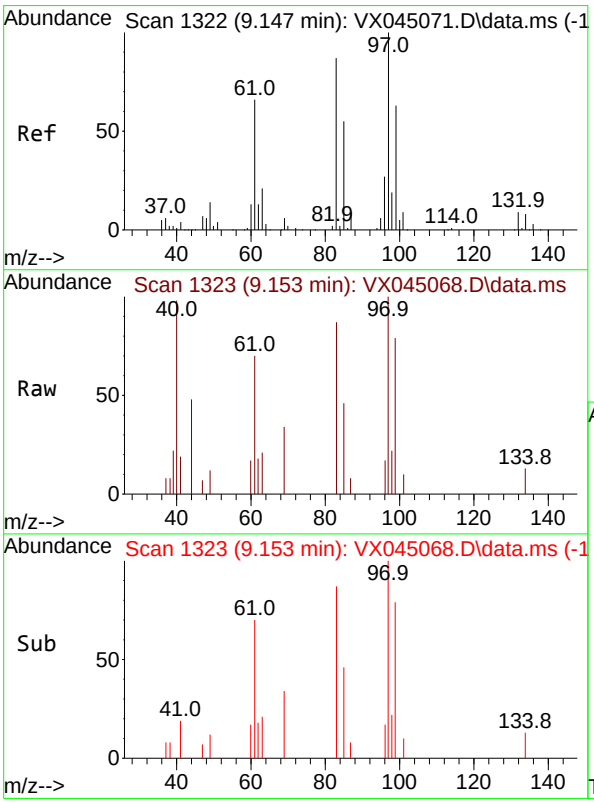
Ion	Ratio	Lower	Upper
75	100		
77	38.6	24.7	37.1#
39	45.1	40.7	61.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

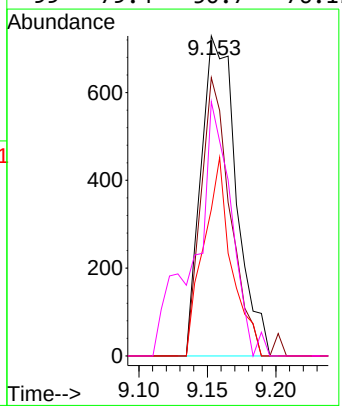
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

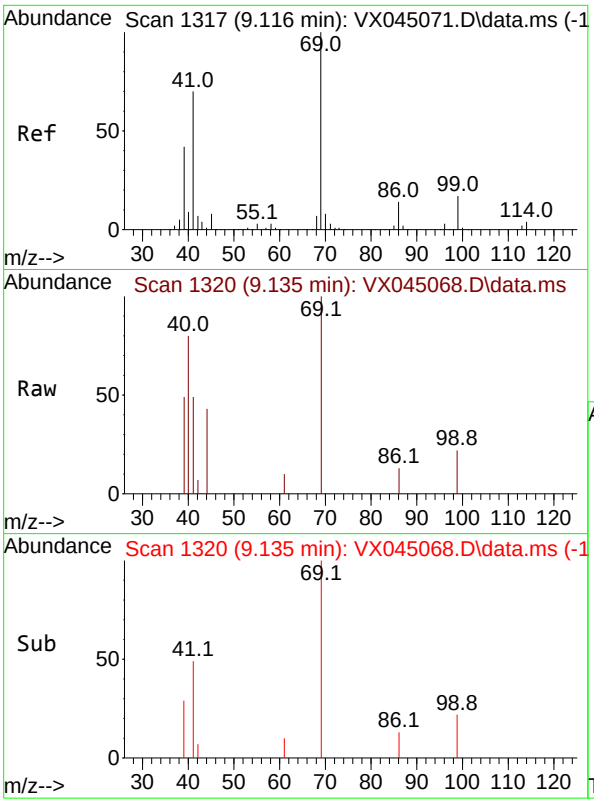


#55
1,1,2-Trichloroethane
Concen: 1.004 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 97 Resp: 1306

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.4	104.2
85	45.8	44.1	66.1
99	79.4	50.7	76.1#

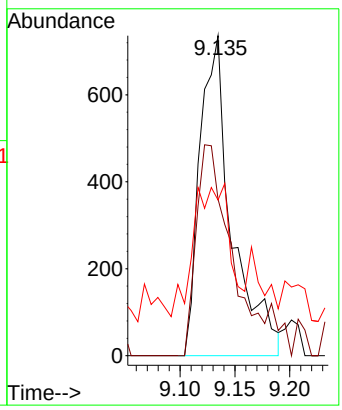




#56
Ethyl methacrylate
Concen: 0.748 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 69 Resp: 149

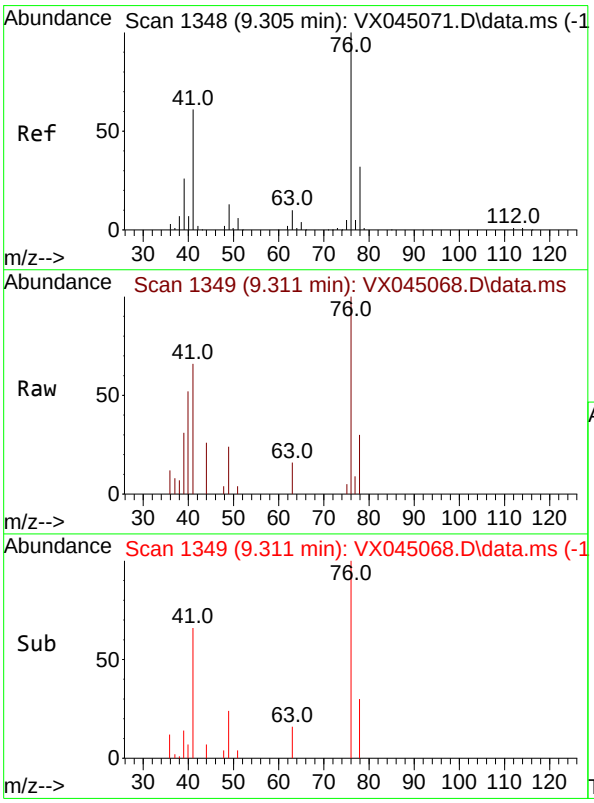
Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	54.6	34.2	51.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

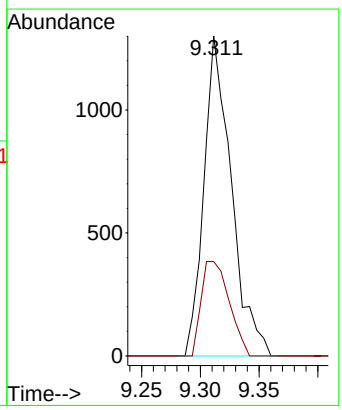
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

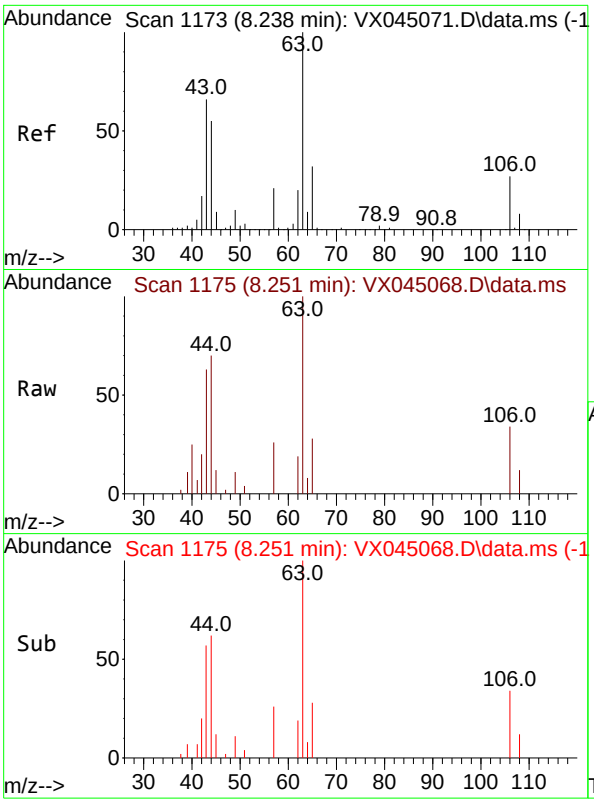


#57
1,3-Dichloropropane
Concen: 0.920 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 76 Resp: 2112

Ion	Ratio	Lower	Upper
76	100		
78	30.1	25.5	38.3

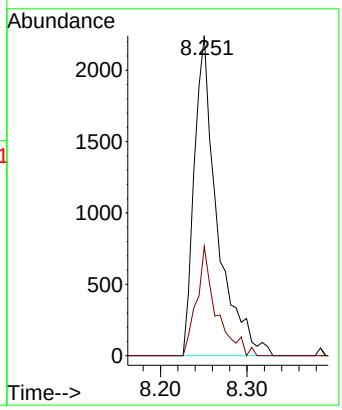




#58
2-Chloroethyl Vinyl ether
Concen: 4.320 ug/l
RT: 8.251 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 411

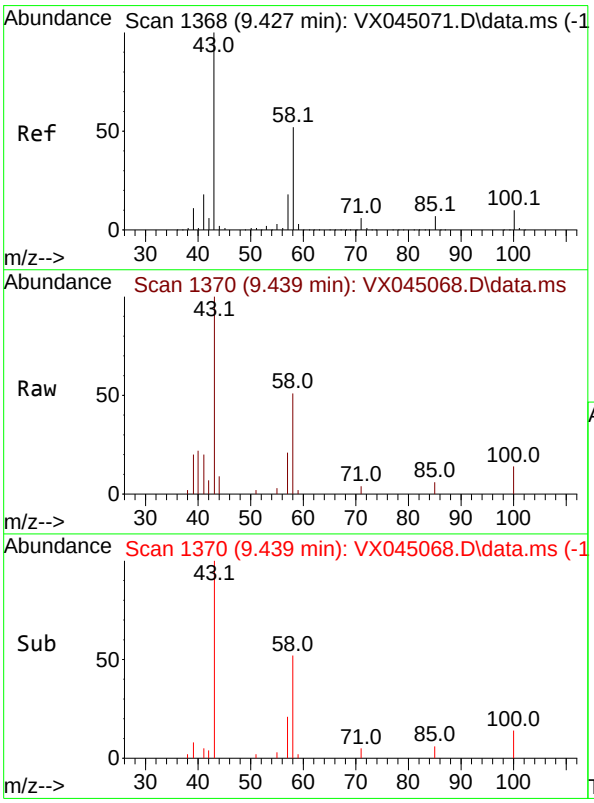
Ion	Ratio	Lower	Upper
63	100		
106	29.2	21.5	32.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

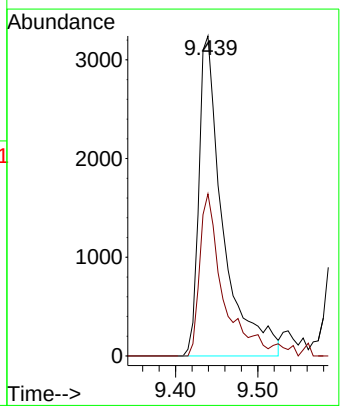
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

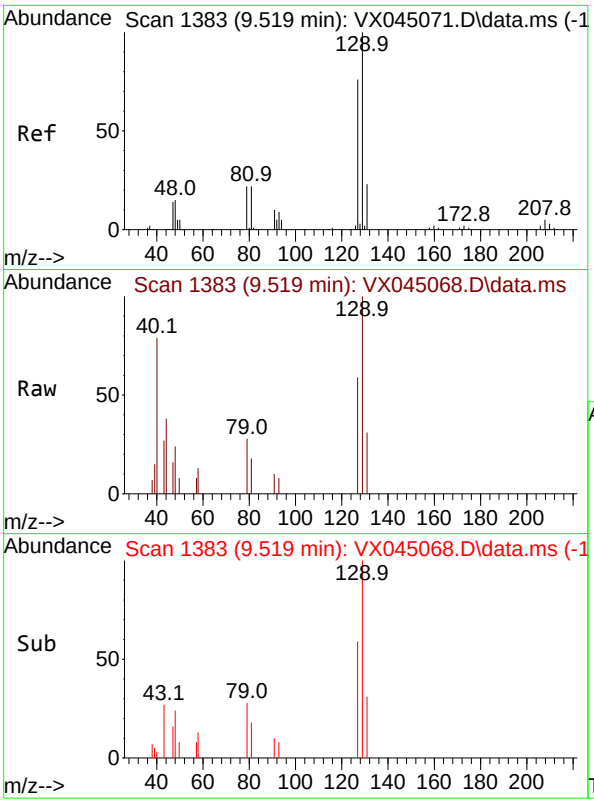


#59
2-Hexanone
Concen: 4.153 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 6582

Ion	Ratio	Lower	Upper
43	100		
58	48.7	25.9	77.6

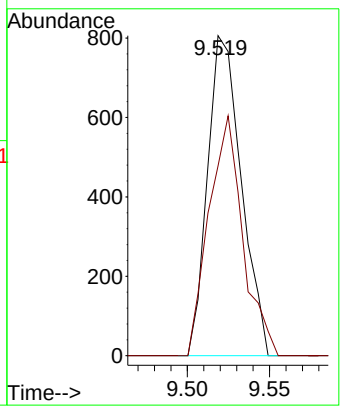




#60
Dibromochloromethane
Concen: 0.835 ug/l
RT: 9.519 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:129 Resp: 115

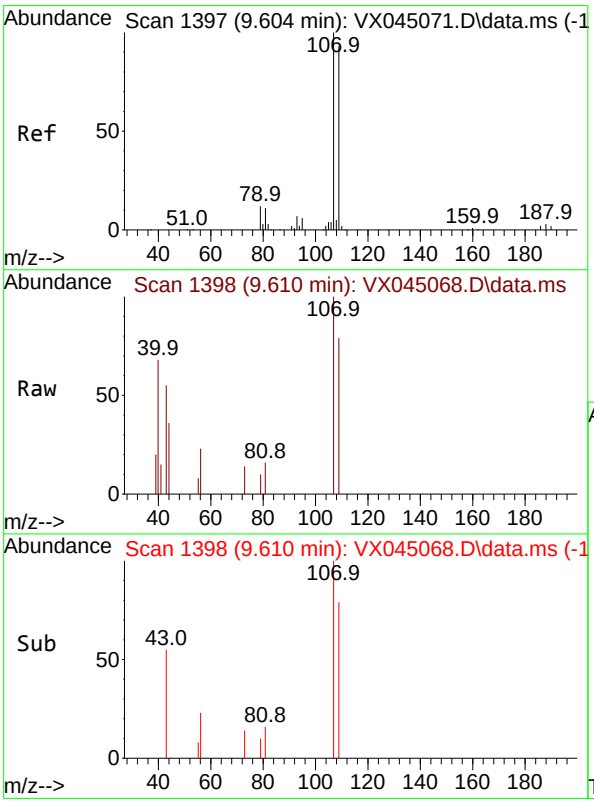
Ion	Ratio	Lower	Upper
129	100		
127	75.2	38.5	115.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

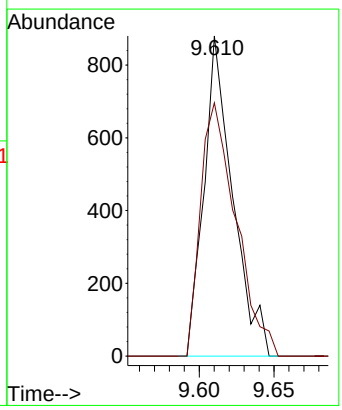
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

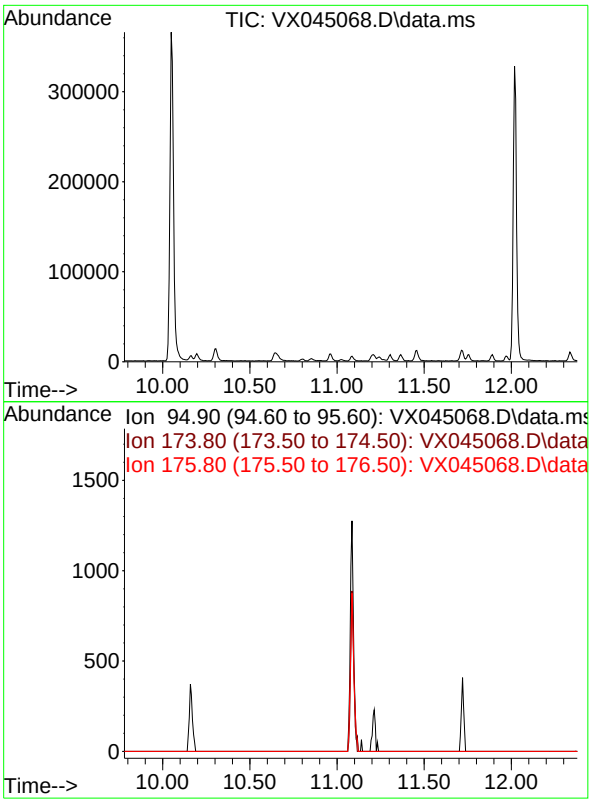


#61
1,2-Dibromoethane
Concen: 0.890 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:107 Resp: 1174

Ion	Ratio	Lower	Upper
107	100		
109	97.6	76.1	114.1





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

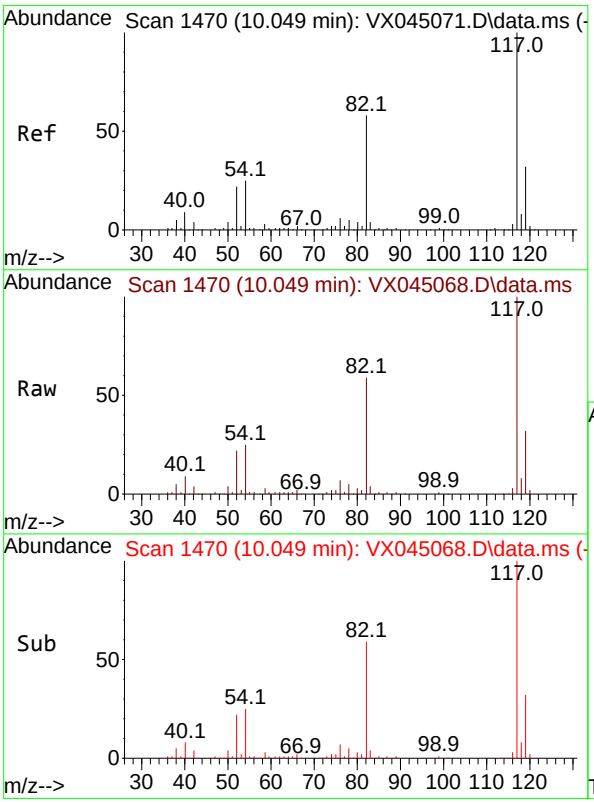
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	74.1
176	70.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

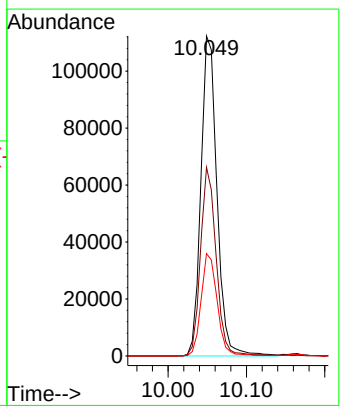
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

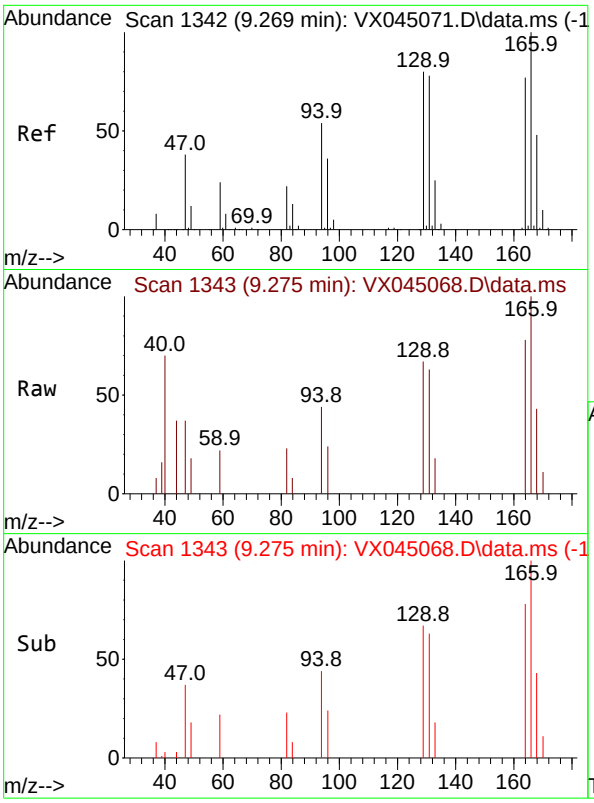


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:117 Resp: 159886

Ion	Ratio	Lower	Upper
117	100		
82	59.0	46.3	69.5
119	32.0	25.7	38.5

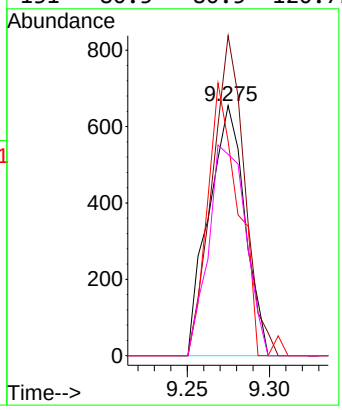




#64
Tetrachloroethene
Concen: 0.986 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:164 Resp: 100

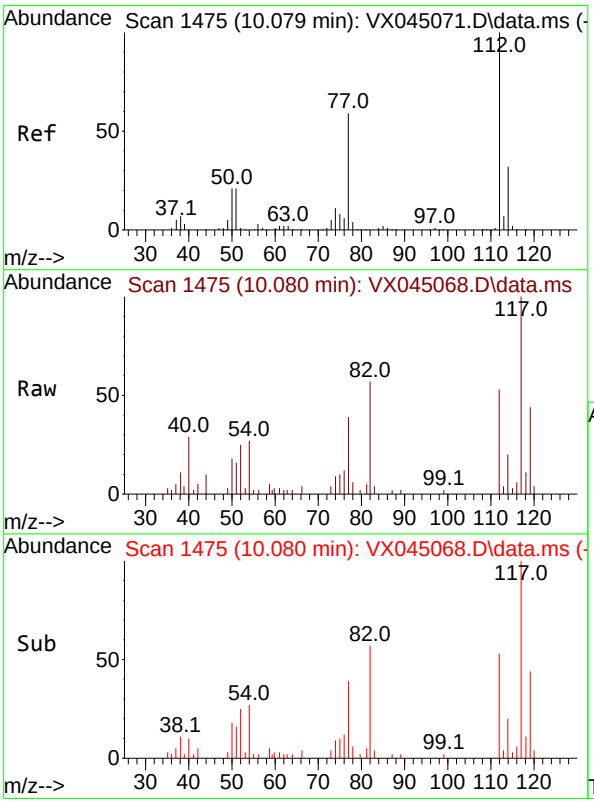
Ion	Ratio	Lower	Upper
164	100		
166	127.9	103.6	155.4
129	85.8	82.7	124.1
131	80.5	80.5	120.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

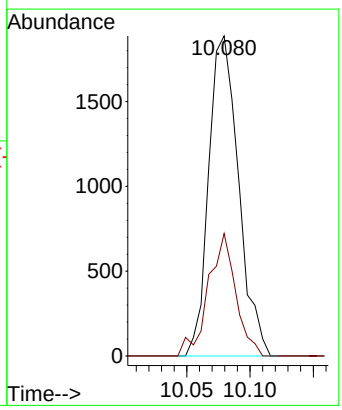
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

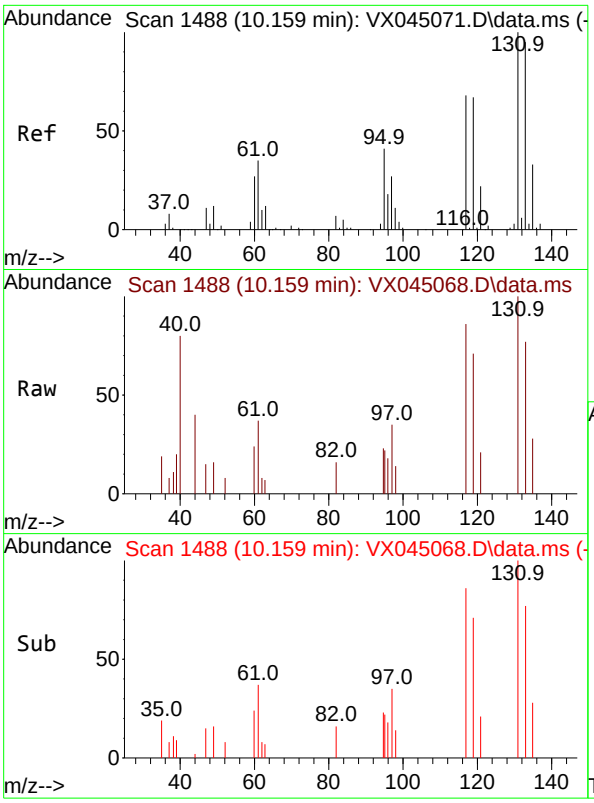


#65
Chlorobenzene
Concen: 0.908 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:112 Resp: 3094

Ion	Ratio	Lower	Upper
112	100		
114	38.3	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 0.978 ug/l
RT: 10.159 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

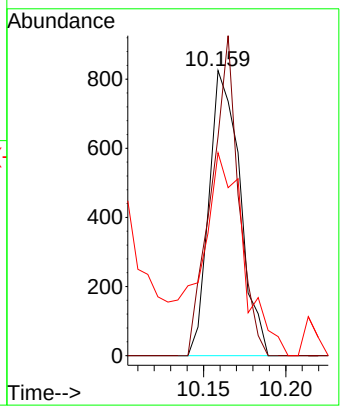
Tgt Ion:131 Resp: 107

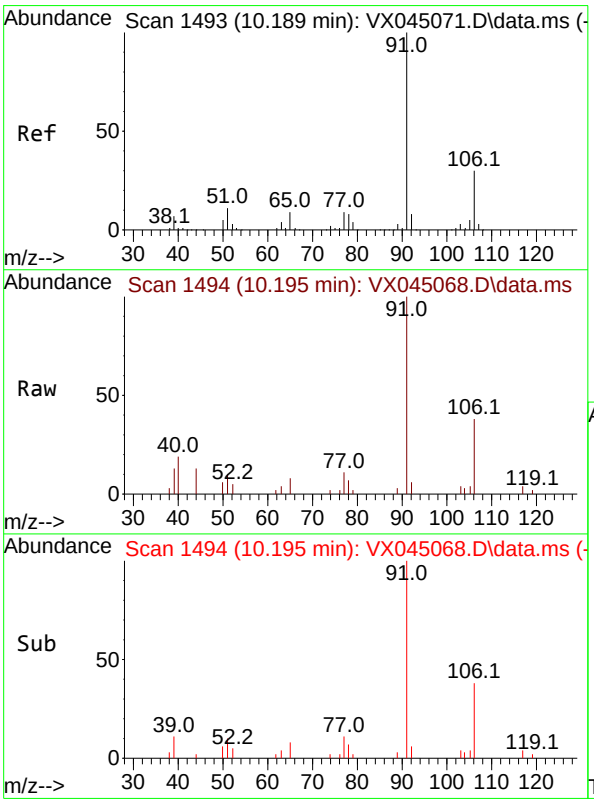
Ion	Ratio	Lower	Upper
131	100		
133	98.6	48.6	145.9
119	0.0	33.9	101.7#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

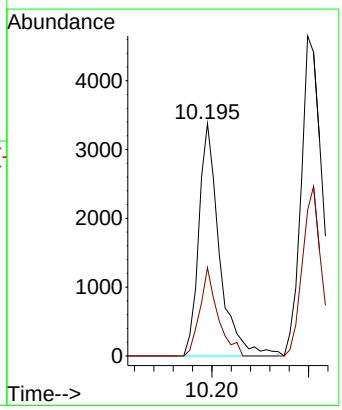


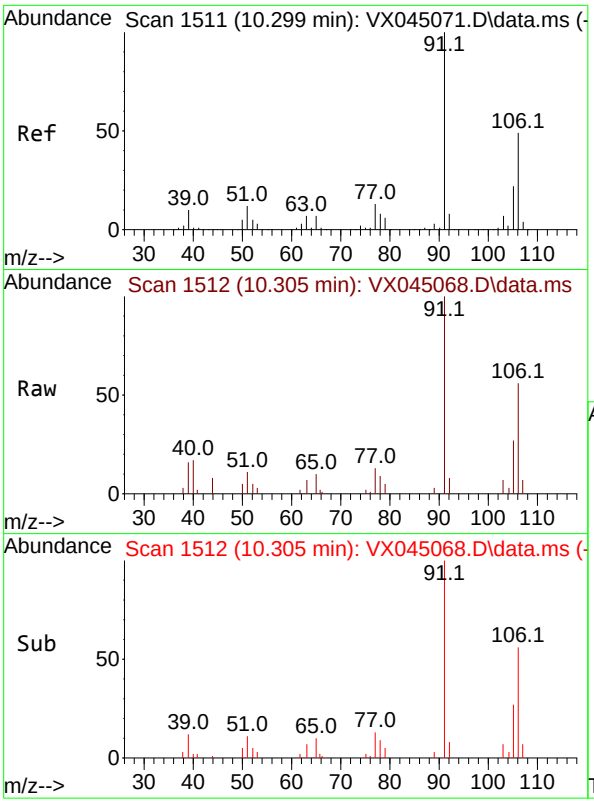


#67
Ethyl Benzene
Concen: 0.846 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 5008

Ion	Ratio	Lower	Upper
91	100		
106	38.0	23.9	35.9#

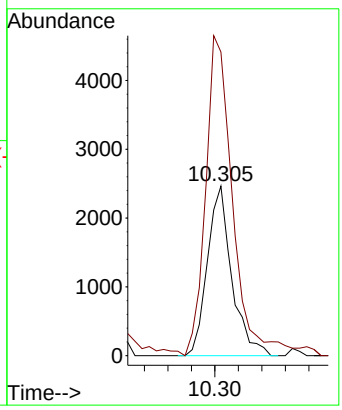




#68
m/p-Xylenes
Concen: 1.630 ug/l
RT: 10.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:106 Resp: 355

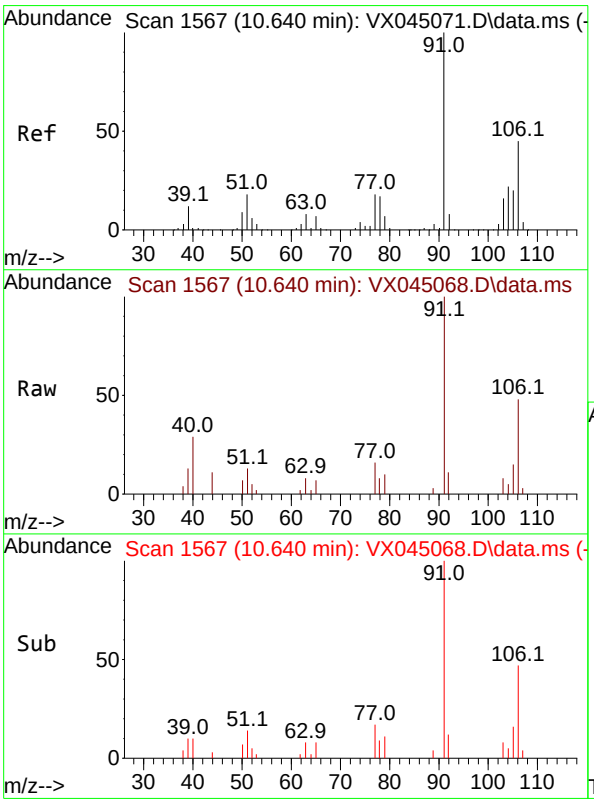
Ion	Ratio	Lower	Upper
106	100		
91	211.2	165.4	248.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

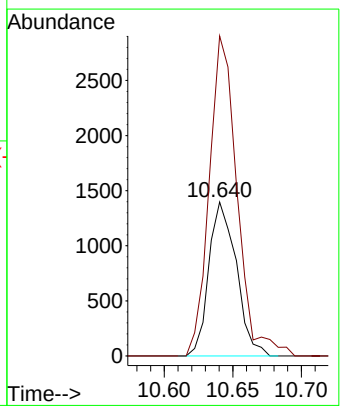
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

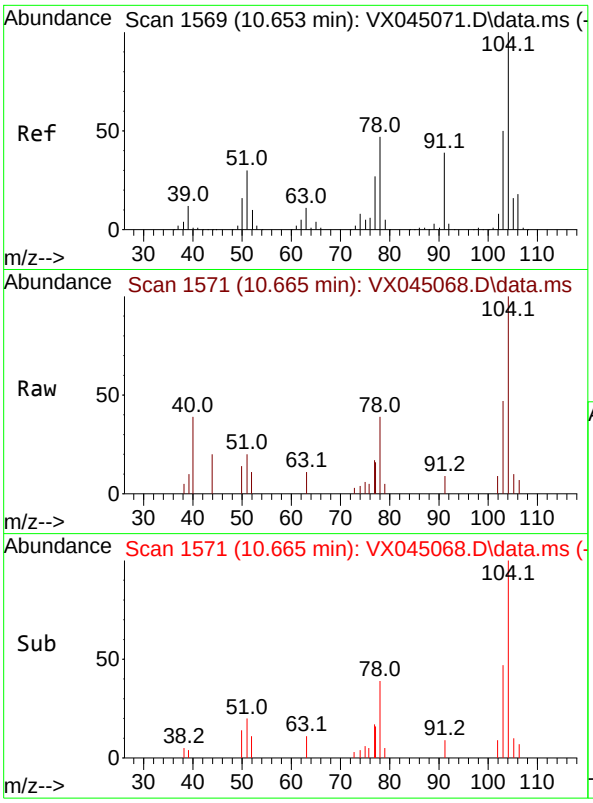


#69
o-Xylene
Concen: 0.891 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:106 Resp: 1949

Ion	Ratio	Lower	Upper
106	100		
91	211.0	109.9	329.6

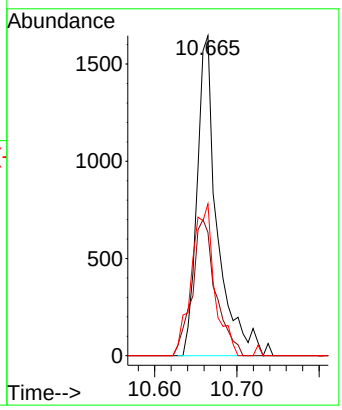




#70
Styrene
Concen: 0.802 ug/l
RT: 10.665 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:104 Resp: 281

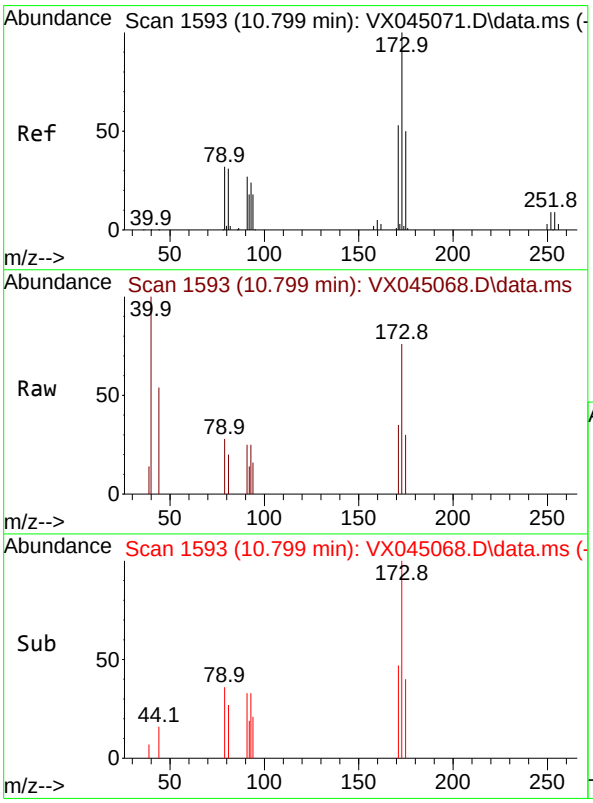
Ion	Ratio	Lower	Upper
104	100		
78	49.7	42.2	63.4
103	53.6	43.8	65.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

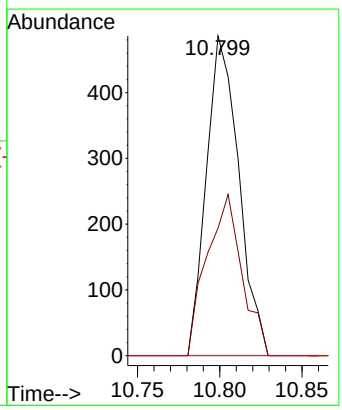
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

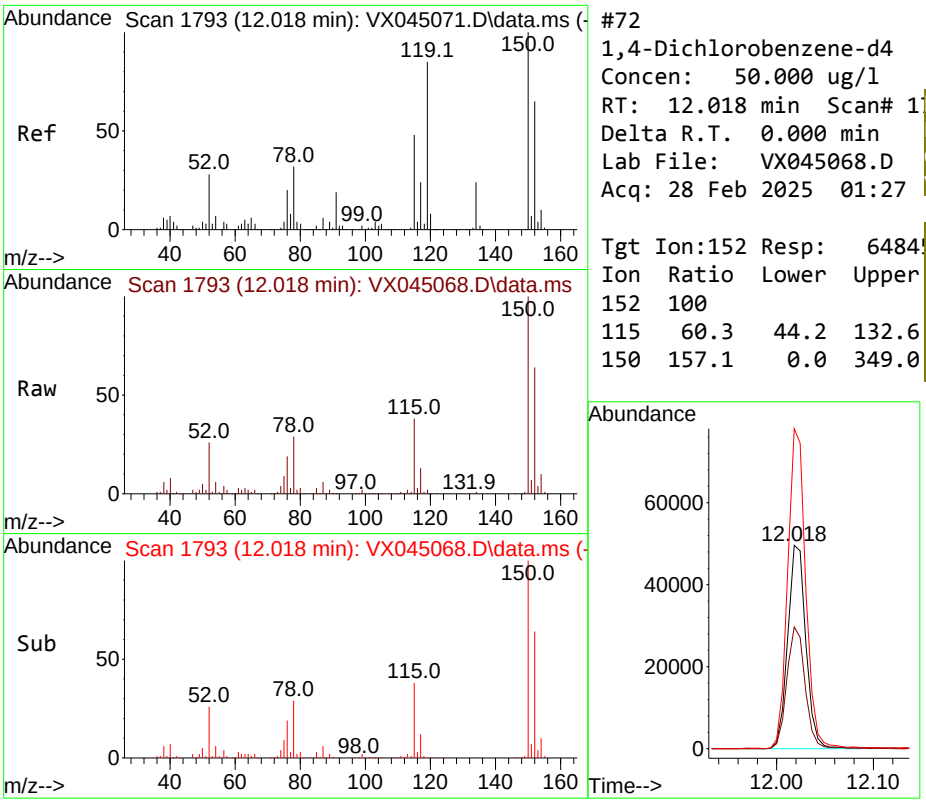


#71
Bromoform
Concen: 0.768 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:173 Resp: 667

Ion	Ratio	Lower	Upper
173	100		
175	54.7	24.6	73.6
254	0.0	0.0	0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

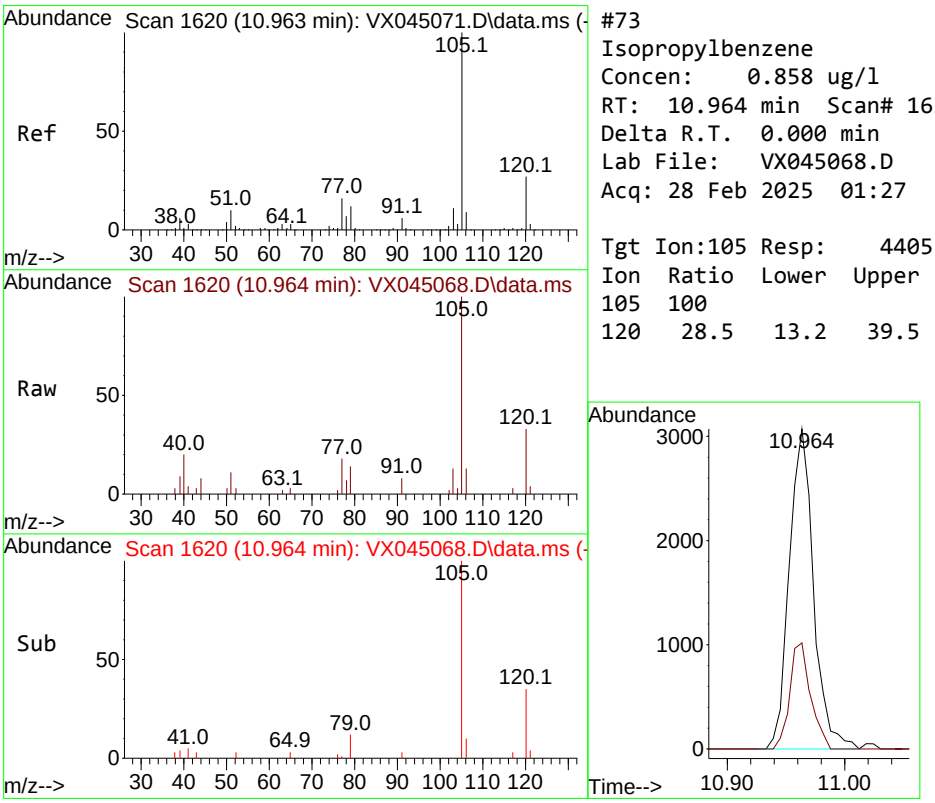
Tgt Ion:152 Resp: 6484

Ion	Ratio	Lower	Upper
152	100		
115	60.3	44.2	132.6
150	157.1	0.0	349.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

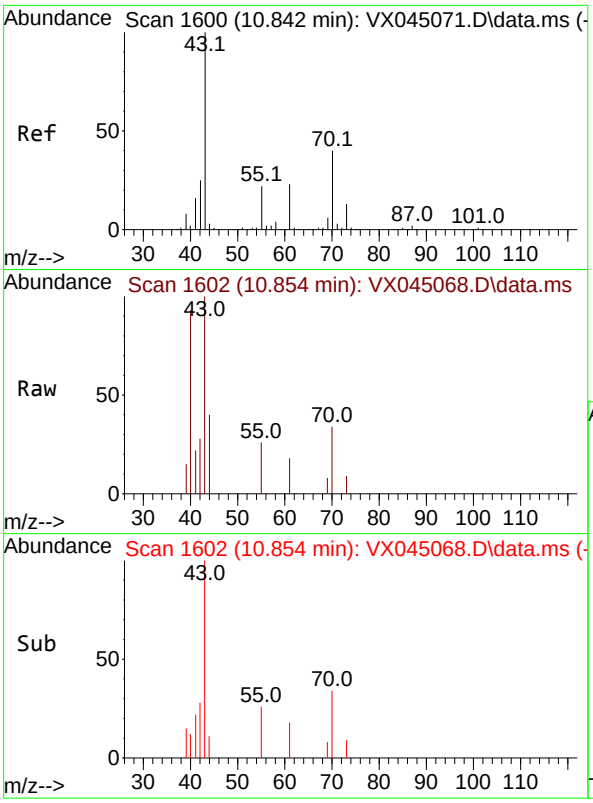
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#73
Isopropylbenzene
Concen: 0.858 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 4405

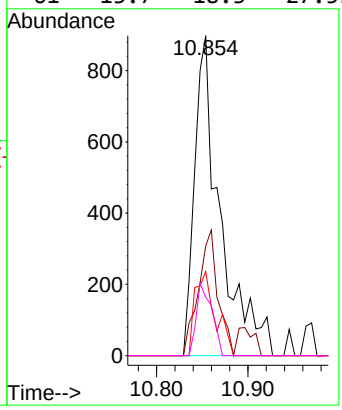
Ion	Ratio	Lower	Upper
105	100		
120	28.5	13.2	39.5



#74
N-amyl acetate
Concen: 0.732 ug/l
RT: 10.854 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 175

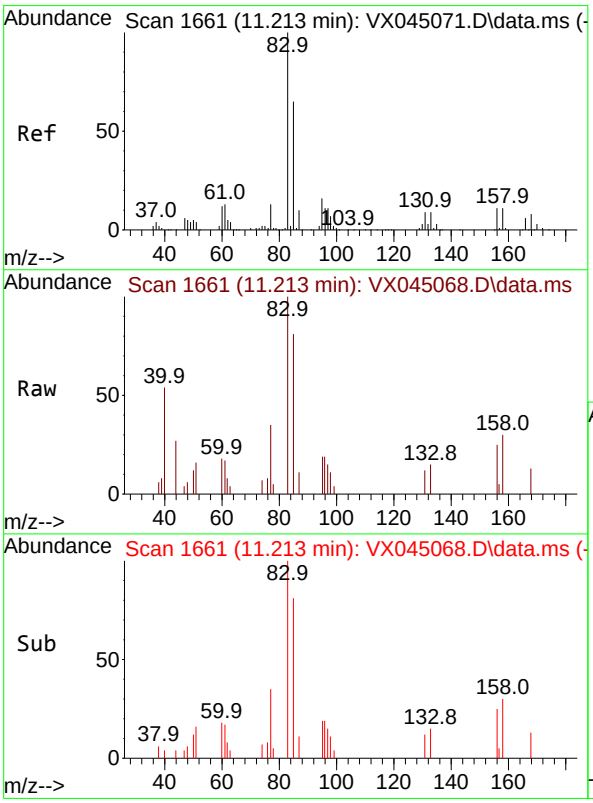
Ion	Ratio	Lower	Upper
43	100		
70	30.1	31.8	47.6#
55	20.9	18.3	27.5
61	13.7	18.3	27.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

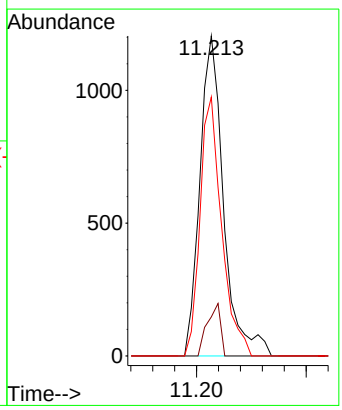
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

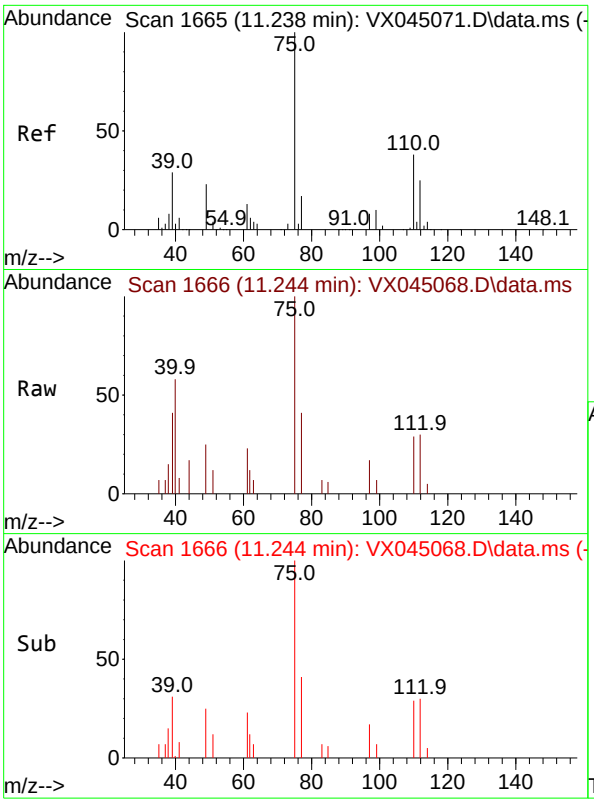


#75
1,1,2,2-Tetrachloroethane
Concen: 0.954 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 1809

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	73.7	31.7	95.1

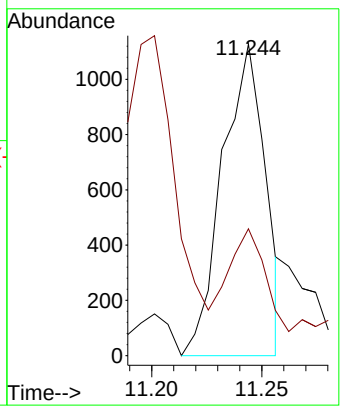




#76
1,2,3-Trichloropropane
Concen: 1.015 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 153

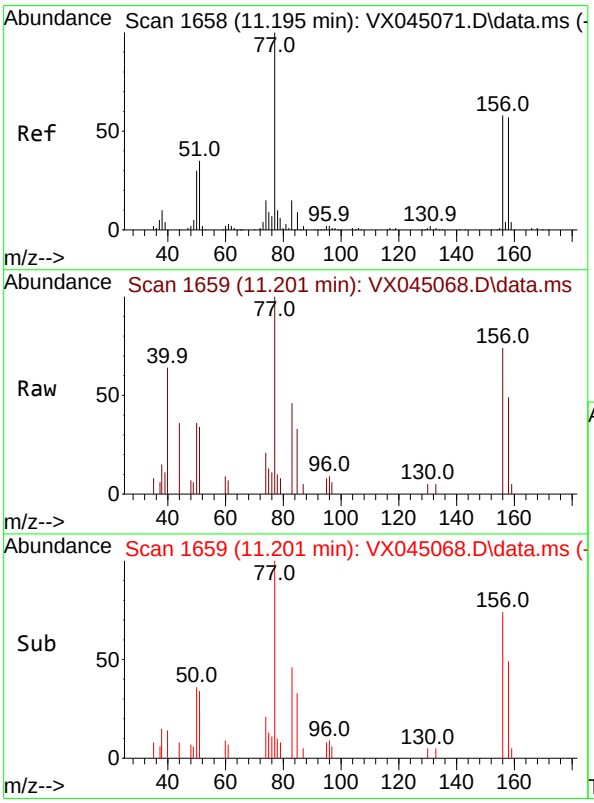
Ion	Ratio	Lower	Upper
75	100		
77	40.0	20.7	62.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

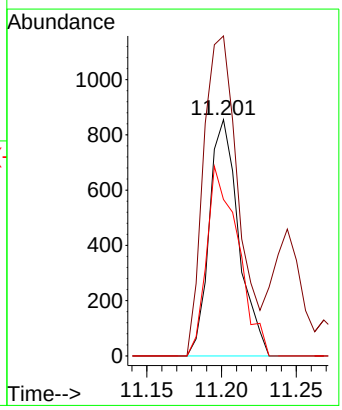
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

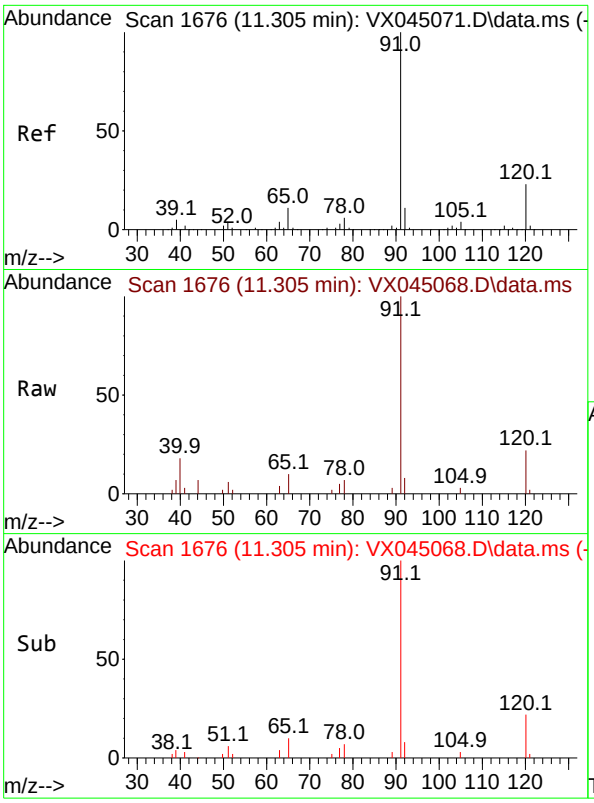


#77
Bromobenzene
Concen: 0.972 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:156 Resp: 1166

Ion	Ratio	Lower	Upper
156	100		
77	159.8	85.8	257.4
158	86.2	48.4	145.2

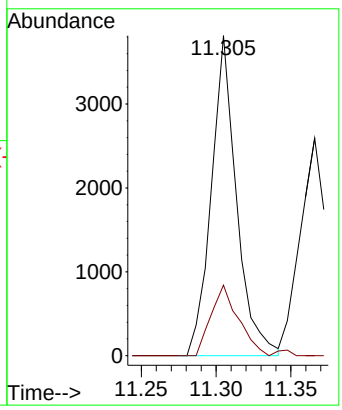




#78
n-propylbenzene
Concen: 0.773 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 447

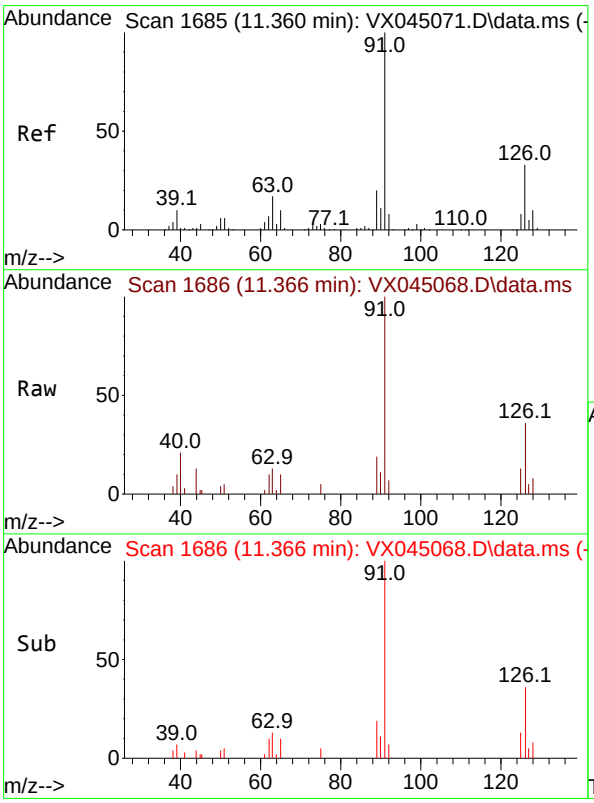
Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.2	33.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

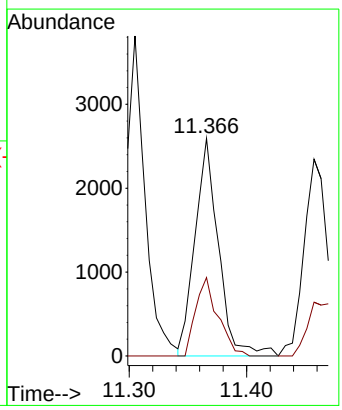
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

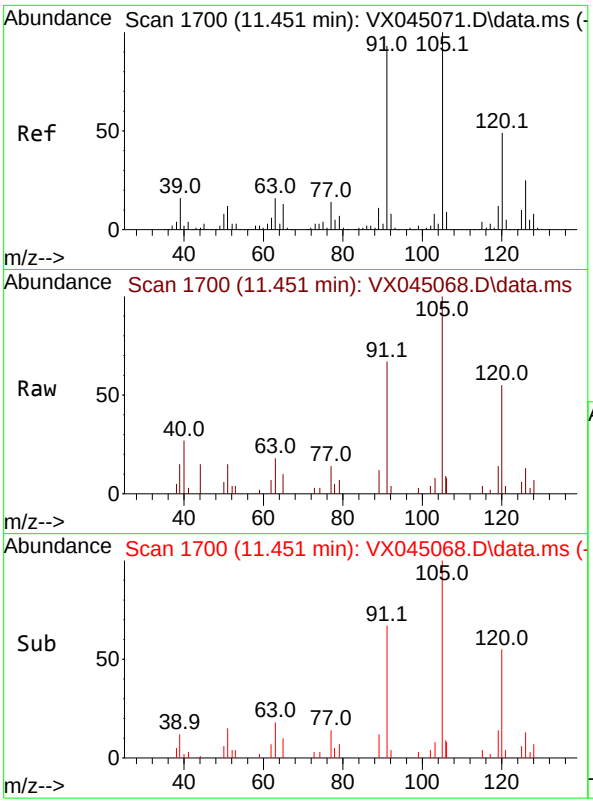


#79
2-Chlorotoluene
Concen: 0.986 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 3616

Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.4	49.4

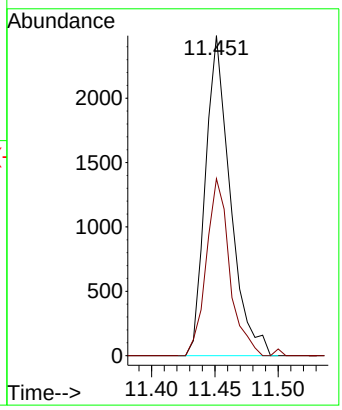




#80
1,3,5-Trimethylbenzene
Concen: 0.815 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 338

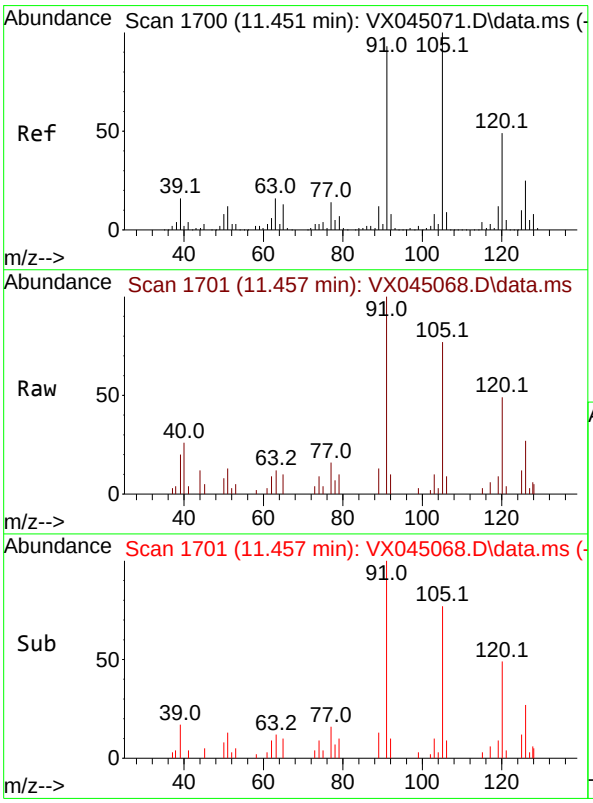
Ion	Ratio	Lower	Upper
105	100		
120	52.2	24.1	72.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

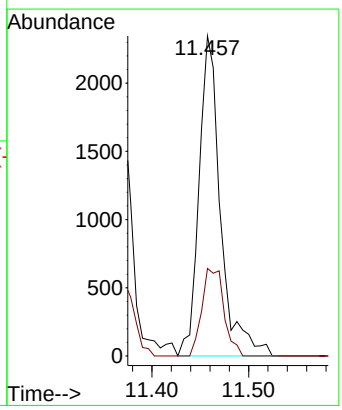
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

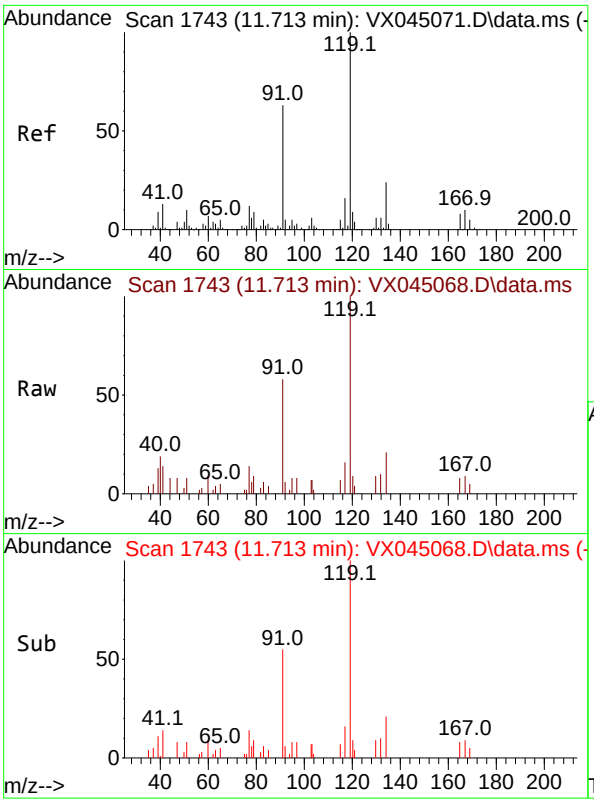


#82
4-Chlorotoluene
Concen: 0.904 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 3631

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.1	42.4

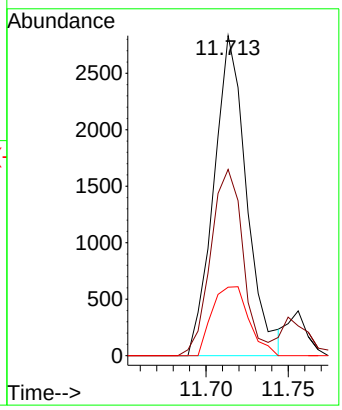




#83
tert-Butylbenzene
Concen: 0.929 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:119 Resp: 392

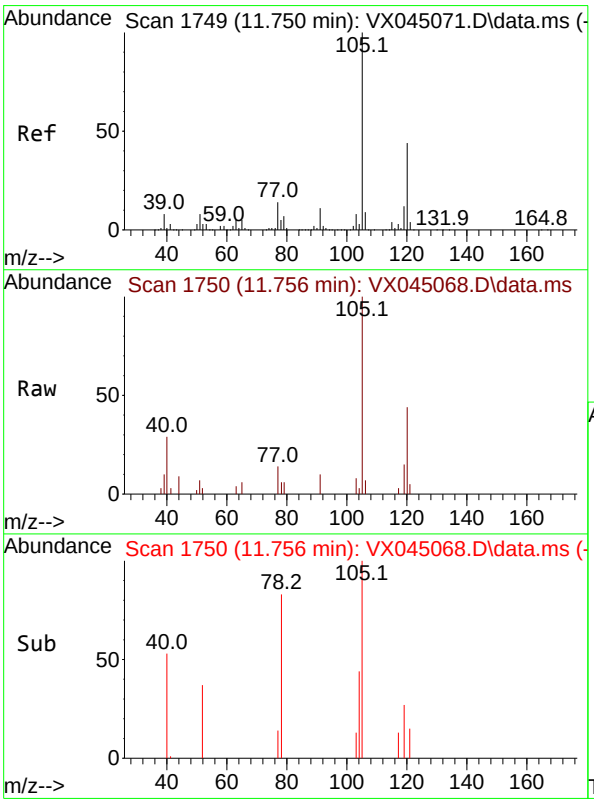
Ion	Ratio	Lower	Upper
119	100		
91	57.7	30.7	92.1
134	24.2	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

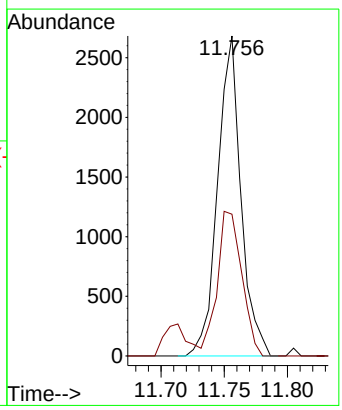
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

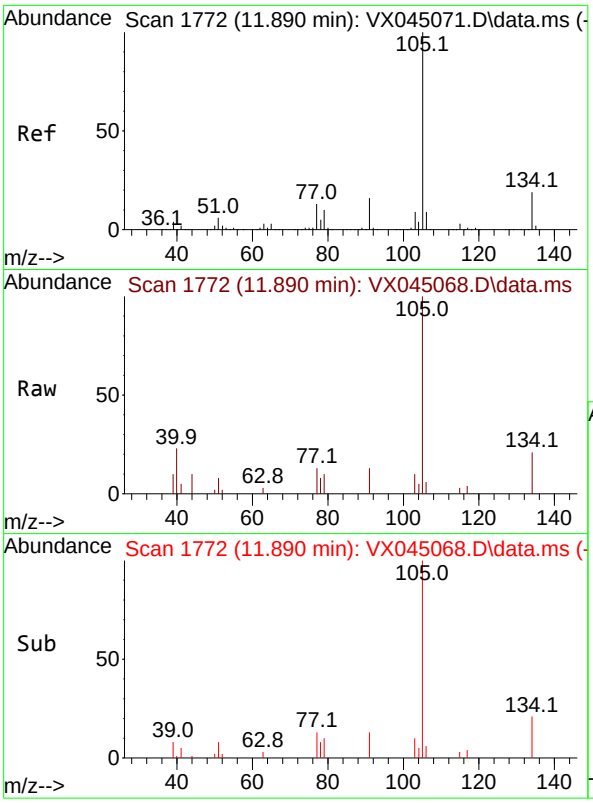


#84
1,2,4-Trimethylbenzene
Concen: 0.827 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 3432

Ion	Ratio	Lower	Upper
105	100		
120	47.5	22.1	66.1

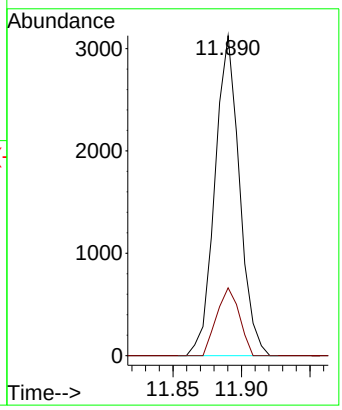




#85
sec-Butylbenzene
Concen: 0.752 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 389

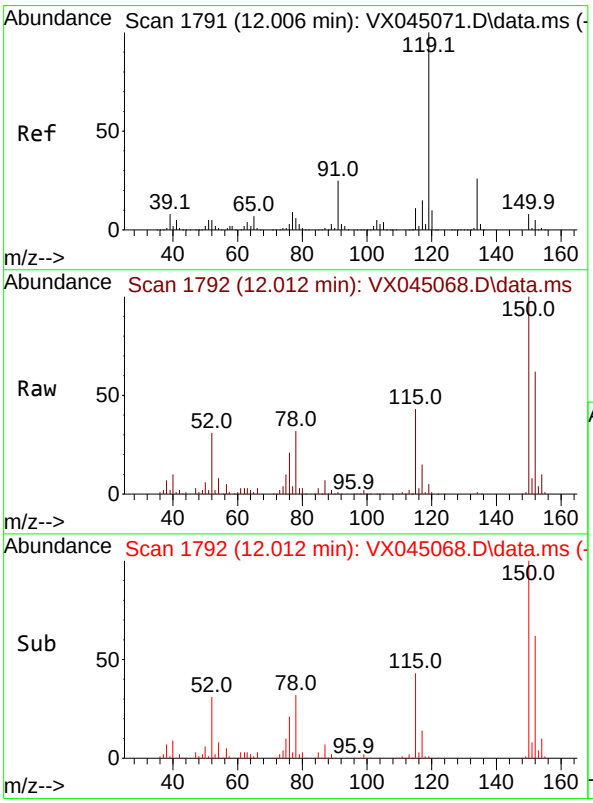
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

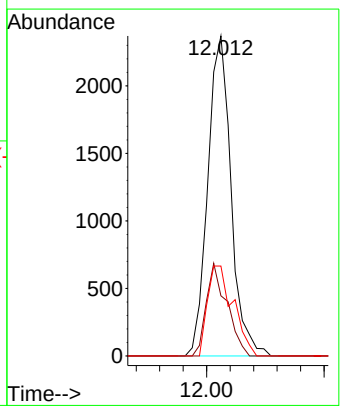
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

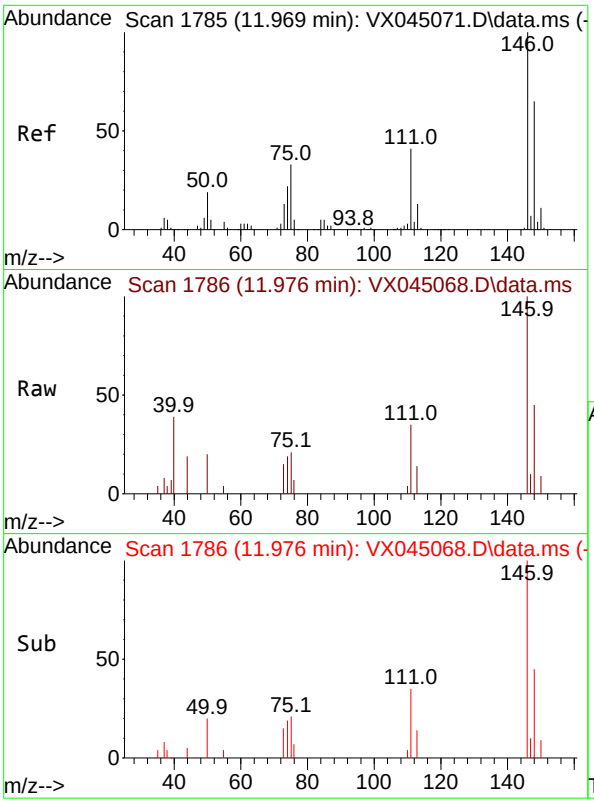


#86
p-Isopropyltoluene
Concen: 0.797 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:119 Resp: 3257

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.6
91	30.9	12.7	38.0

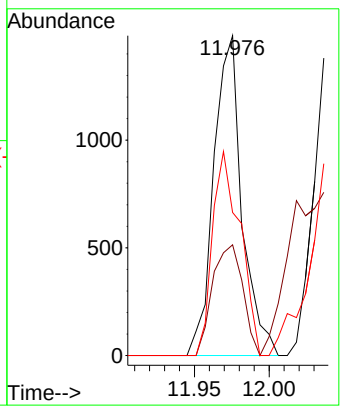




#87
1,3-Dichlorobenzene
Concen: 0.913 ug/l
RT: 11.976 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:146 Resp: 194

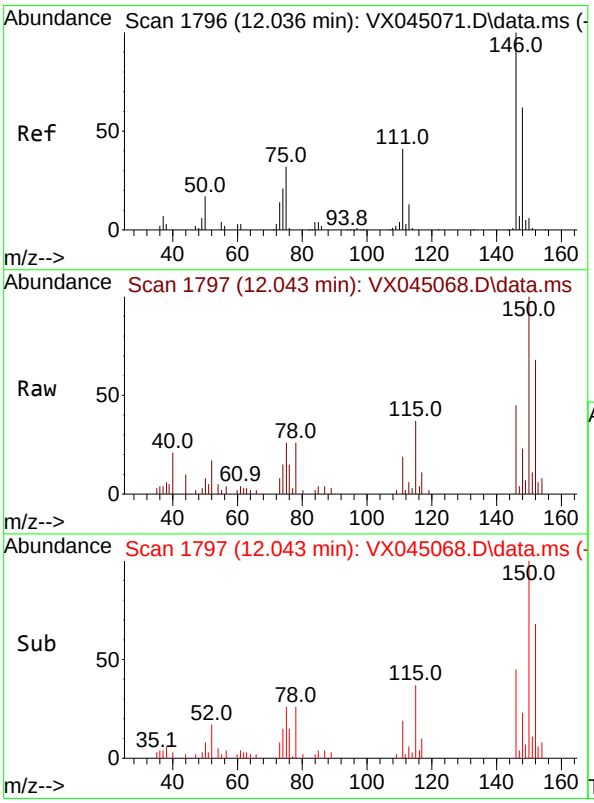
Ion	Ratio	Lower	Upper
146	100		
111	37.1	21.1	63.4
148	62.4	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

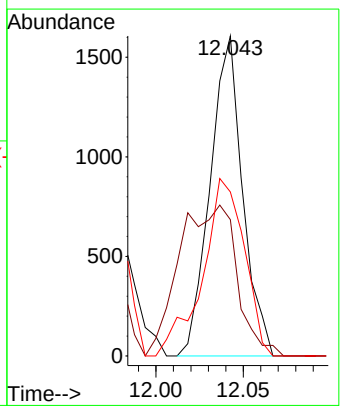
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

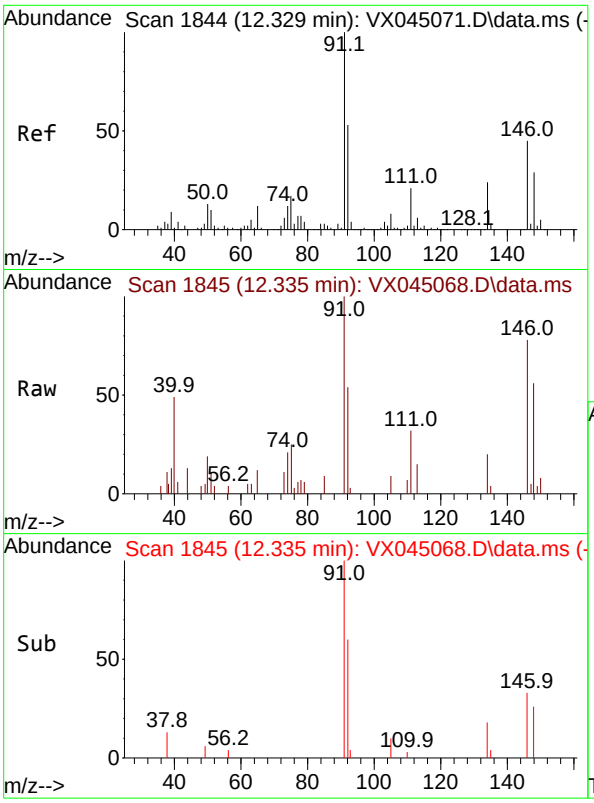


#88
1,4-Dichlorobenzene
Concen: 0.962 ug/l m
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:146 Resp: 2082

Ion	Ratio	Lower	Upper
146	100		
111	34.7	20.2	60.5
148	58.4	31.9	95.9

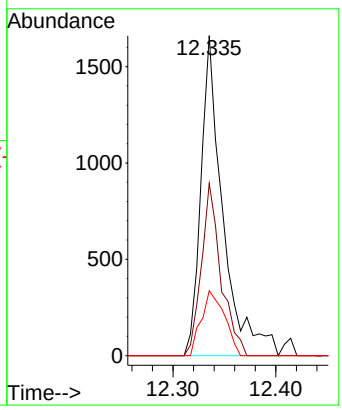




#89
n-Butylbenzene
Concen: 0.691 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 247

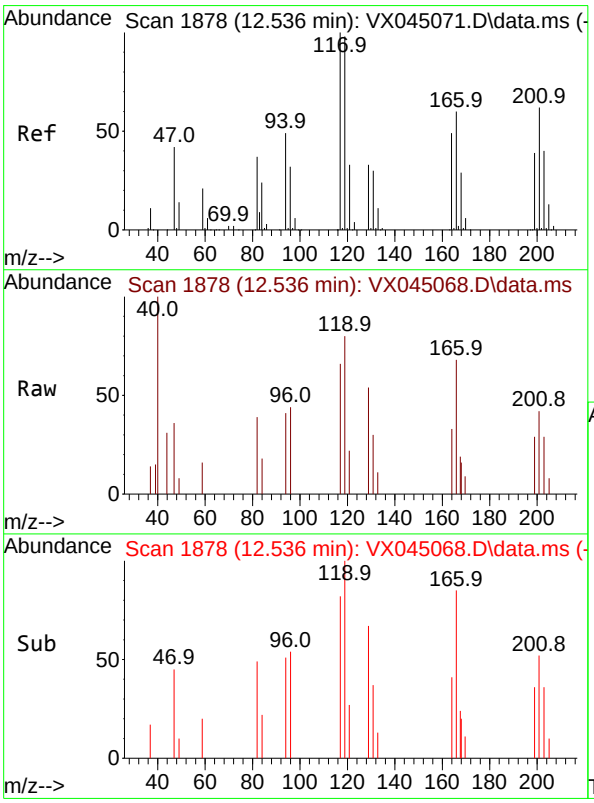
Ion	Ratio	Lower	Upper
91	100		
92	48.0	26.7	80.0
134	21.4	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

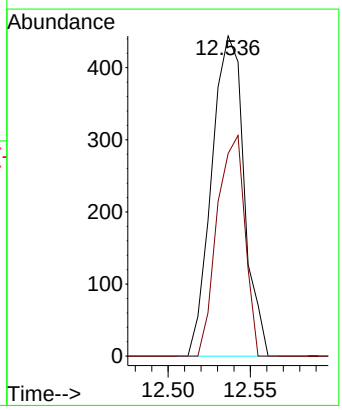
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

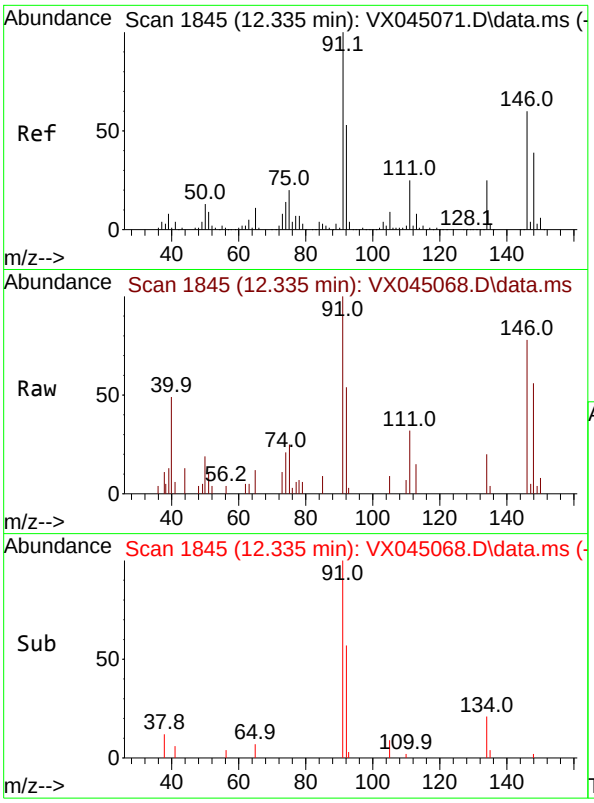


#90
Hexachloroethane
Concen: 0.805 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:117 Resp: 609

Ion	Ratio	Lower	Upper
117	100		
201	58.9	31.9	95.9

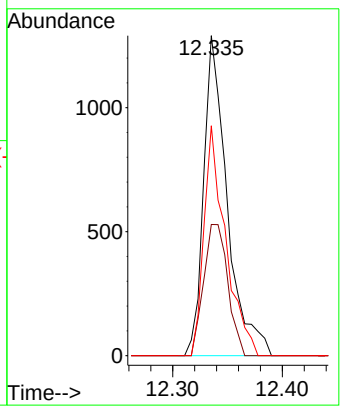




#91
1,2-Dichlorobenzene
Concen: 0.890 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:146 Resp: 191

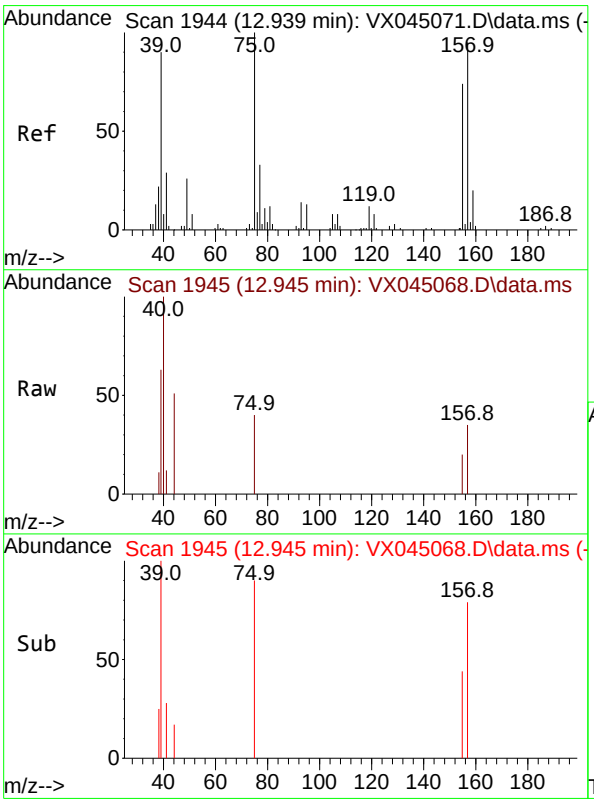
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.6	65.0
148	66.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

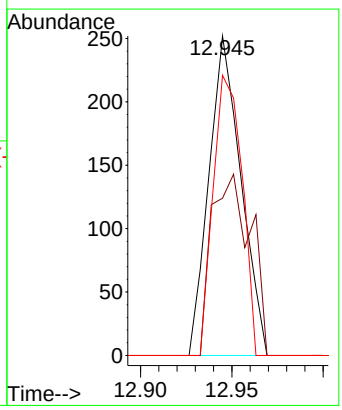
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

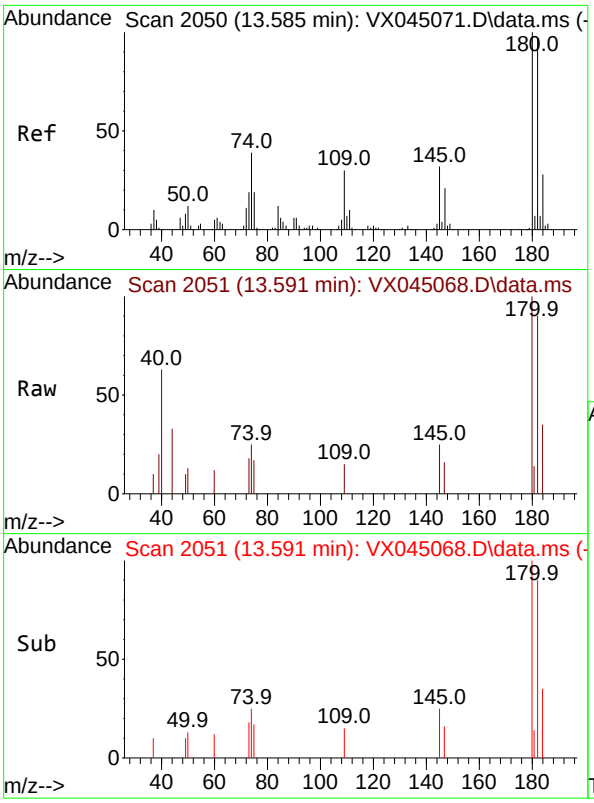


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.859 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 308

Ion	Ratio	Lower	Upper
75	100		
155	69.2	39.6	118.7
157	78.6	51.1	153.4

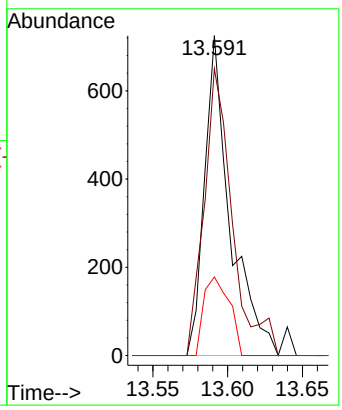




#93
1,2,4-Trichlorobenzene
Concen: 0.706 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:180 Resp: 86

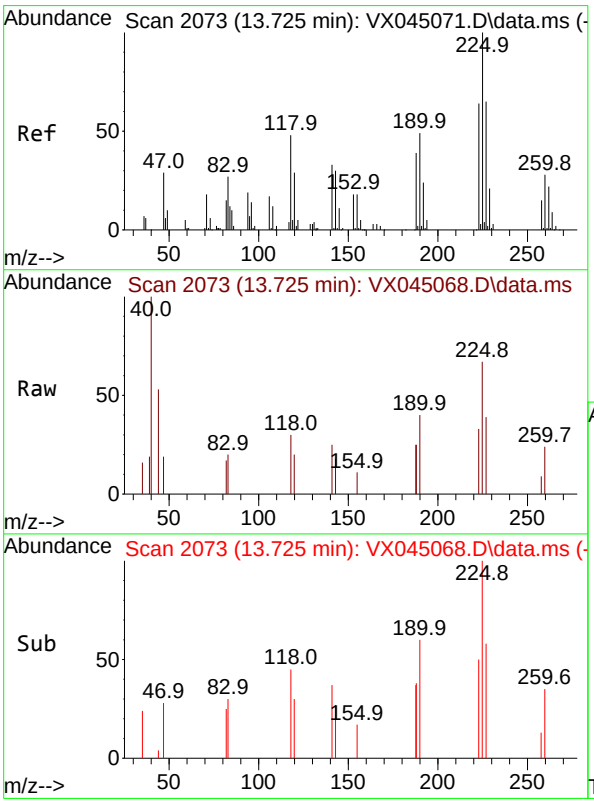
Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.3	141.9
145	24.5	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

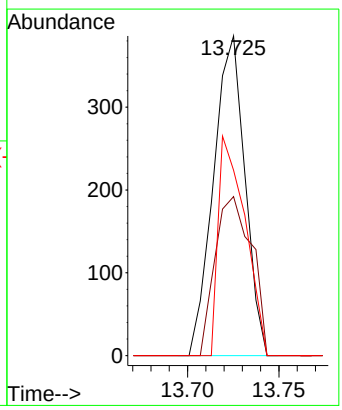
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

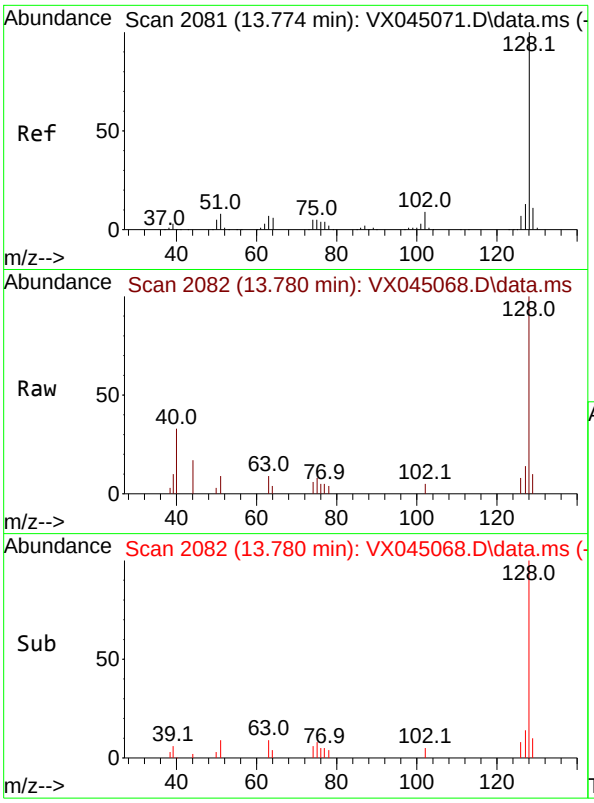


#94
Hexachlorobutadiene
Concen: 0.917 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:225 Resp: 462

Ion	Ratio	Lower	Upper
225	100		
223	57.8	31.9	95.7
227	58.7	31.4	94.0

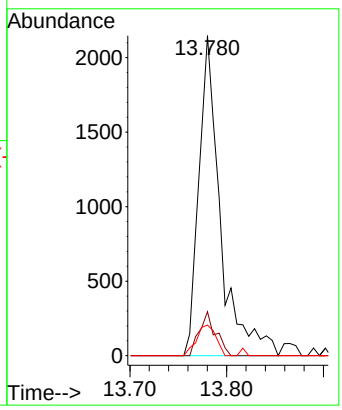




#95
Naphthalene
Concen: 0.707 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:128 Resp: 333

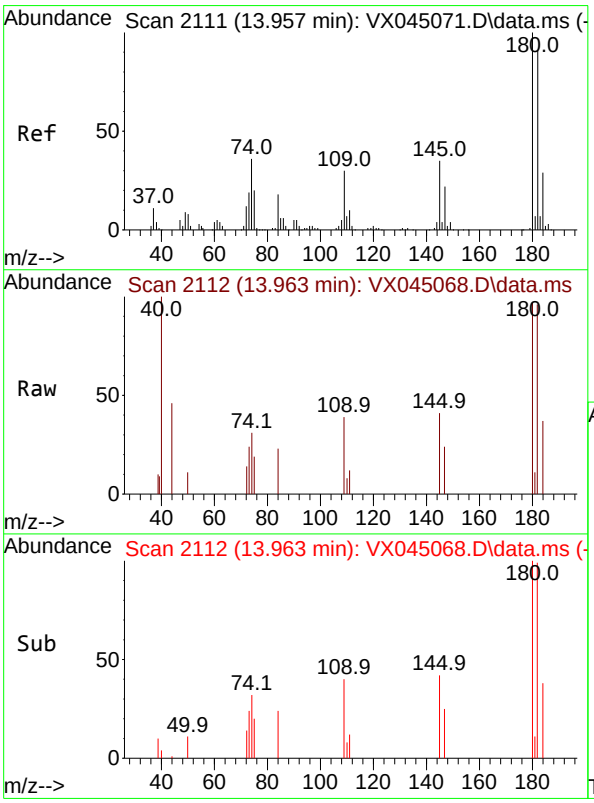
Ion	Ratio	Lower	Upper
128	100		
127	10.5	10.3	15.5
129	8.6	8.7	13.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

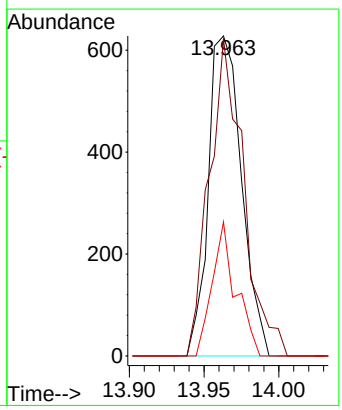
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.759 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:180 Resp: 969

Ion	Ratio	Lower	Upper
180	100		
182	102.3	47.5	142.6
145	29.8	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	107391	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	194243	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	172367	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73591	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.964	65	8978	5.659	ug/l		0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.320%#			
35) Dibromofluoromethane	5.391	113	6398	5.039	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.080%#			
50) Toluene-d8	8.647	98	24037	5.057	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.120%#			
62) 4-Bromofluorobenzene	11.079	95	7436	4.685	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.360%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	6941	4.689	ug/l		96
3) Chloromethane	1.307	50	8819	4.896	ug/l		99
4) Vinyl Chloride	1.374	62	8106	4.608	ug/l		94
5) Bromomethane	1.593	94	3620	6.582	ug/l		96
6) Chloroethane	1.660	64	4517	6.746	ug/l		91
7) Trichlorofluoromethane	1.867	101	11392	5.056	ug/l		95
8) Diethyl Ether	2.136	74	4314	5.268	ug/l		99
9) 1,1,2-Trichlorotrifluo...	2.319	101	6586	4.894	ug/l		98
10) Methyl Iodide	2.441	142	6520	3.780	ug/l		95
11) Tert butyl alcohol	2.983	59	10164m	34.976	ug/l		
12) 1,1-Dichloroethene	2.313	96	6658	4.819	ug/l		94
13) Acrolein	2.233	56	8725	27.725	ug/l		97
14) Allyl chloride	2.654	41	11244	4.527	ug/l		96
15) Acrylonitrile	3.068	53	21381	27.072	ug/l		99
16) Acetone	2.386	43	19512	29.891	ug/l		97
17) Carbon Disulfide	2.502	76	16984	4.518	ug/l		99
18) Methyl Acetate	2.703	43	8964	4.559	ug/l		97
19) Methyl tert-butyl Ether	3.117	73	20546	4.651	ug/l		95
20) Methylene Chloride	2.782	84	7835	5.068	ug/l		97
21) trans-1,2-Dichloroethene	3.087	96	6651	4.895	ug/l		94
22) Diisopropyl ether	3.763	45	23151	4.875	ug/l	#	82
23) Vinyl Acetate	3.721	43	88852	22.788	ug/l		98
24) 1,1-Dichloroethane	3.605	63	13132	4.949	ug/l		99
25) 2-Butanone	4.574	43	29277	27.819	ug/l		99
26) 2,2-Dichloropropane	4.471	77	6034	3.059	ug/l		97
27) cis-1,2-Dichloroethene	4.483	96	8012	4.892	ug/l		97
28) Bromochloromethane	4.904	49	6797	5.311	ug/l	#	96
29) Tetrahydrofuran	5.013	42	20186	28.950	ug/l		99
30) Chloroform	5.093	83	13390	5.159	ug/l		96
31) Cyclohexane	5.464	56	10968	4.504	ug/l		95
32) 1,1,1-Trichloroethane	5.385	97	10654	4.876	ug/l		100
36) 1,1-Dichloropropene	5.690	75	8977	4.917	ug/l	#	83
37) Ethyl Acetate	4.727	43	10459	5.035	ug/l		98
38) Carbon Tetrachloride	5.666	117	8997	5.013	ug/l		95
39) Methylcyclohexane	7.379	83	10291	4.414	ug/l		97
40) Benzene	6.037	78	28339	4.966	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	5700	5.136	ug/l		95
42) 1,2-Dichloroethane	6.092	62	10189	5.510	ug/l		98
43) Isopropyl Acetate	6.348	43	15543	4.700	ug/l		99
44) Trichloroethene	7.129	130	6827	5.234	ug/l		99
45) 1,2-Dichloropropane	7.427	63	7342	5.177	ug/l		95
46) Dibromomethane	7.586	93	5146	5.195	ug/l		97
47) Bromodichloromethane	7.824	83	9773	5.100	ug/l		99
48) Methyl methacrylate	7.696	41	8201	5.224	ug/l		95
49) 1,4-Dioxane	7.665	88	3531	105.826	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	55320	27.303	ug/l		99
52) Toluene	8.720	92	16933	4.997	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	7548	3.985	ug/l		94
54) cis-1,3-Dichloropropene	8.366	75	8988	4.244	ug/l		92
55) 1,1,2-Trichloroethane	9.153	97	6759	5.151	ug/l		97
56) Ethyl methacrylate	9.116	69	9712	4.628	ug/l		98
57) 1,3-Dichloropropane	9.305	76	12106	5.289	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	23212	22.527	ug/l		99
59) 2-Hexanone	9.433	43	39994	27.363	ug/l		99
60) Dibromochloromethane	9.519	129	6785	4.846	ug/l		98
61) 1,2-Dibromoethane	9.610	107	6832	5.161	ug/l		95
64) Tetrachloroethene	9.269	164	5615	5.128	ug/l		93
65) Chlorobenzene	10.079	112	18161	4.908	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	5702	4.781	ug/l		96
67) Ethyl Benzene	10.195	91	30918	4.725	ug/l		98
68) m/p-Xylenes	10.299	106	23152	9.608	ug/l		97
69) o-Xylene	10.640	106	11881	4.914	ug/l		95
70) Styrene	10.659	104	18278	4.704	ug/l		99
71) Bromoform	10.799	173	4027	4.541	ug/l	#	98
73) Isopropylbenzene	10.963	105	29685	4.991	ug/l		98
74) N-amyl acetate	10.848	43	11609	4.300	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	10881	5.310	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	8839m	5.384	ug/l		
77) Bromobenzene	11.195	156	6970	5.163	ug/l		96
78) n-propylbenzene	11.305	91	32196	4.694	ug/l		99
79) 2-Chlorotoluene	11.366	91	21253	5.048	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	23627	4.897	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	1971	3.256	ug/l	#	83
82) 4-Chlorotoluene	11.457	91	22190	4.761	ug/l		98
83) tert-Butylbenzene	11.713	119	23960	4.910	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	23561	4.960	ug/l		99
85) sec-Butylbenzene	11.890	105	28314	4.687	ug/l		99
86) p-Isopropyltoluene	12.006	119	21977	4.532	ug/l		97
87) 1,3-Dichlorobenzene	11.969	146	12157	4.926	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	12526	5.014	ug/l		96
89) n-Butylbenzene	12.335	91	17358	4.072	ug/l		99
90) Hexachloroethane	12.536	117	3665	4.052	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	12477	5.138	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1787	4.712	ug/l		90
93) 1,2,4-Trichlorobenzene	13.591	180	6040	4.114	ug/l		97
94) Hexachlorobutadiene	13.725	225	2716	4.640	ug/l		97
95) Naphthalene	13.780	128	22927	4.287	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	6600	4.437	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

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

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

ICAL Form

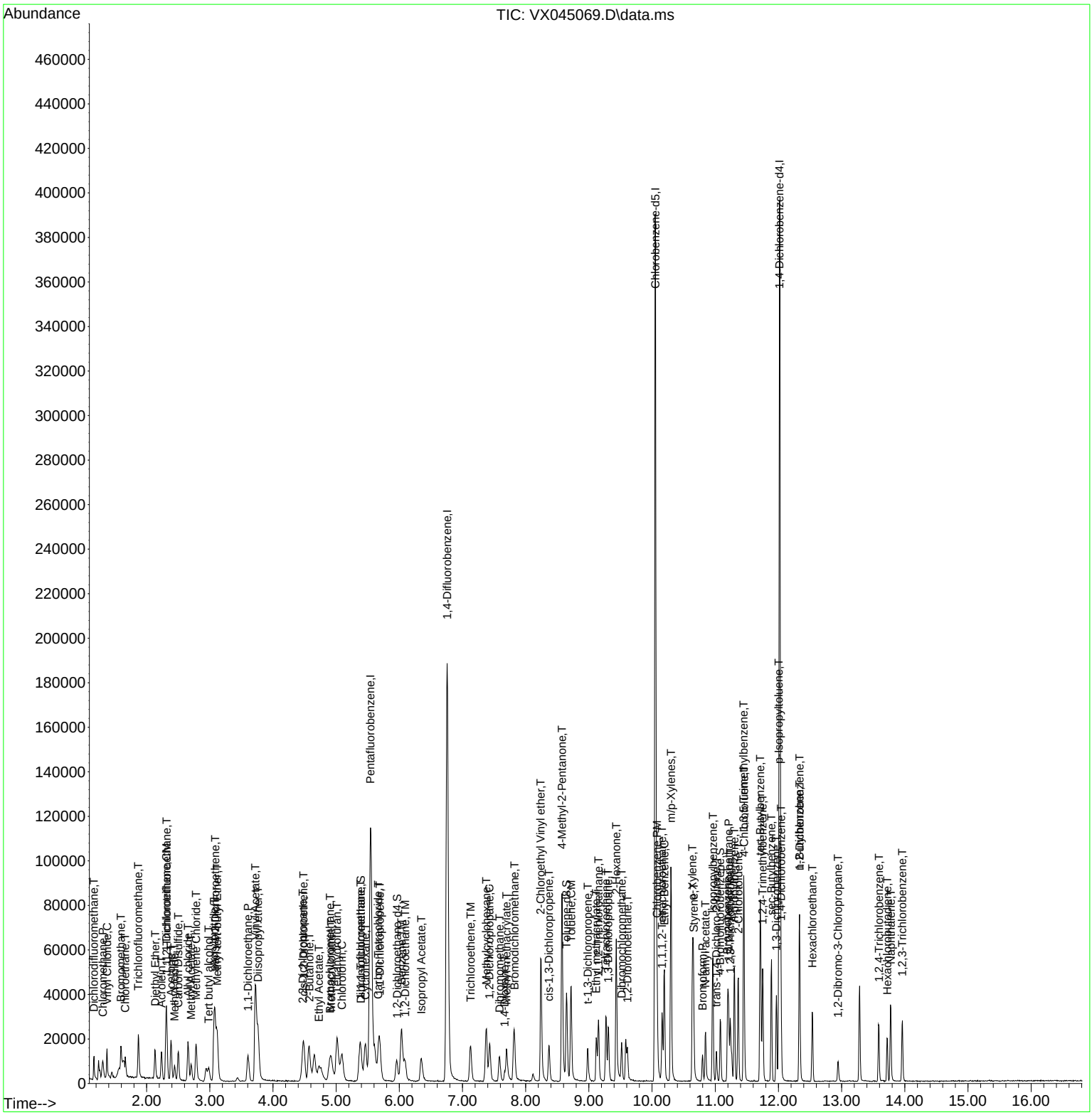
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

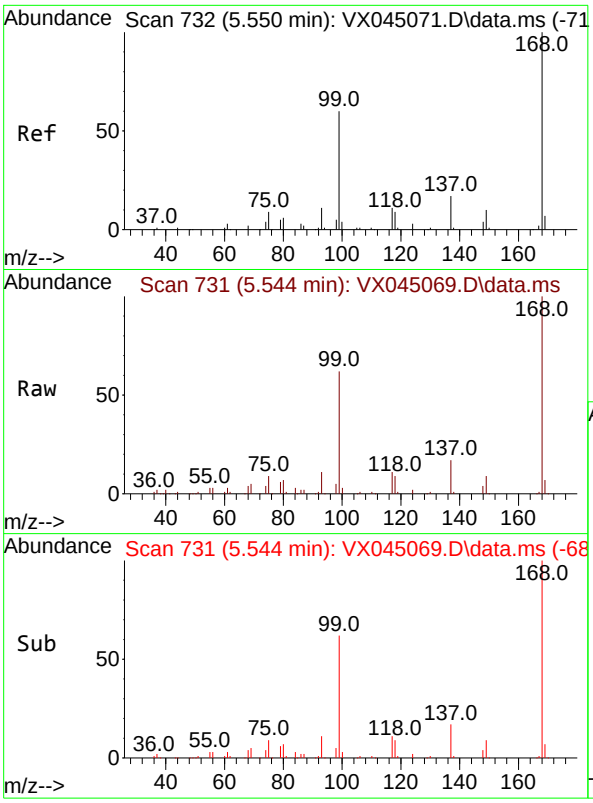
Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

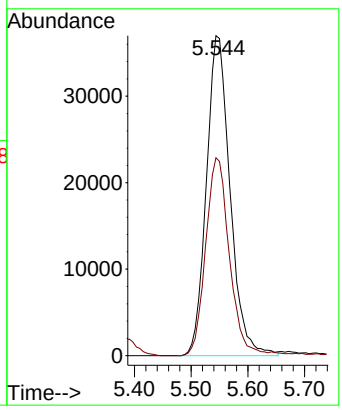




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:168 Resp: 10739

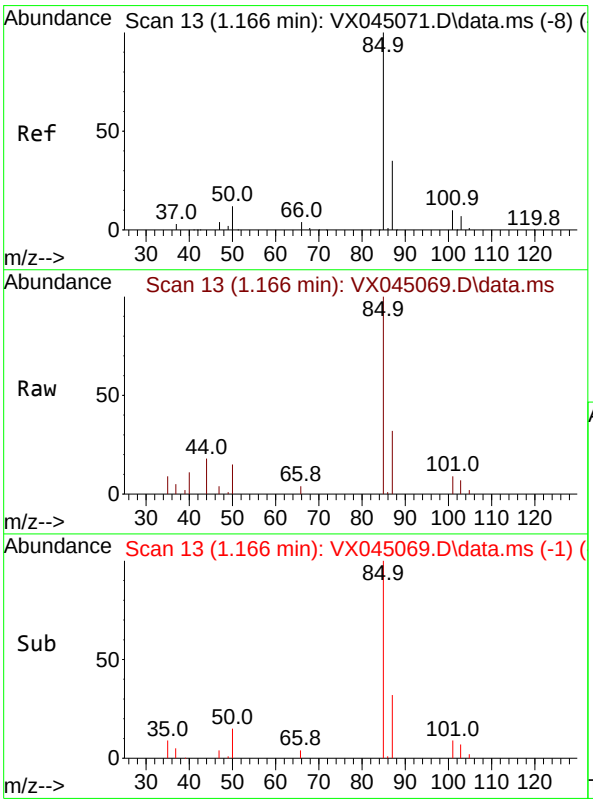
Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

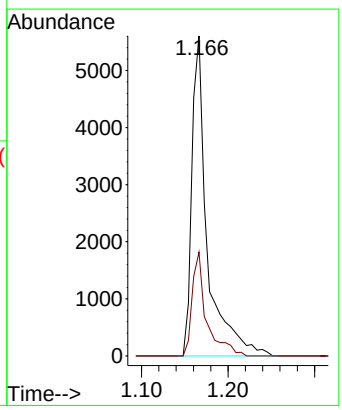
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

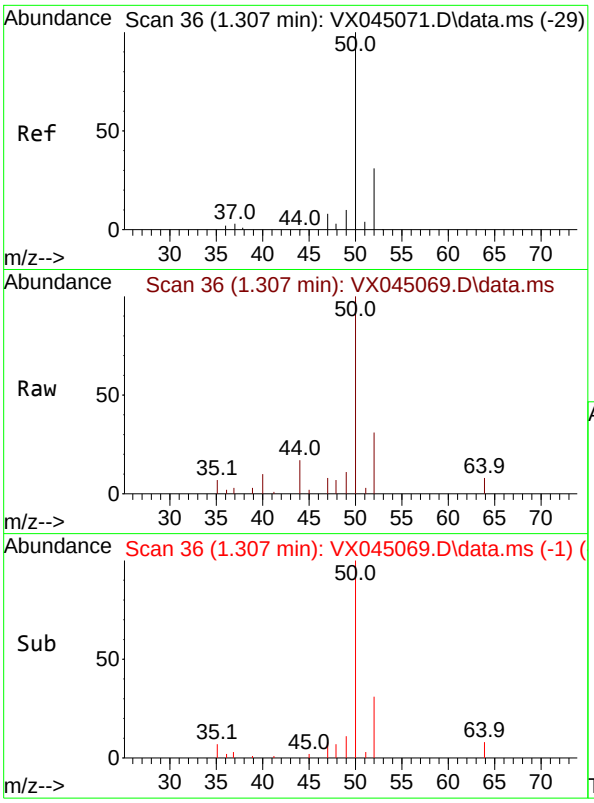


#2
Dichlorodifluoromethane
Concen: 4.689 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 85 Resp: 6941

Ion	Ratio	Lower	Upper
85	100		
87	32.4	17.4	52.3

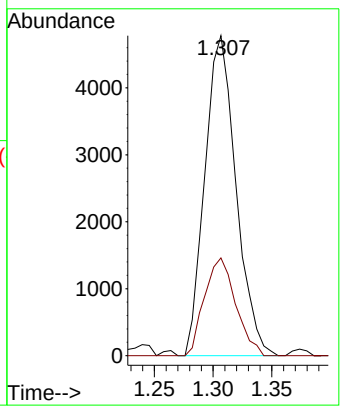




#3
Chloromethane
Concen: 4.896 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 50 Resp: 881

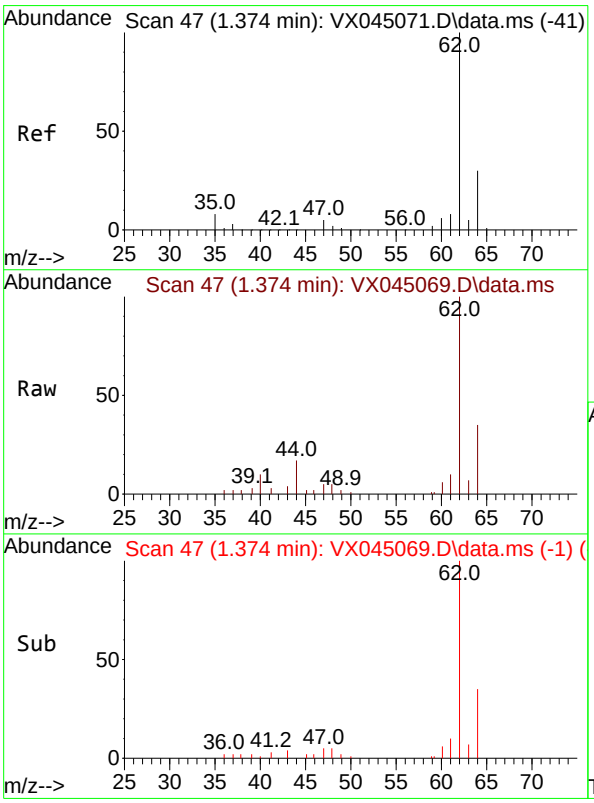
Ion	Ratio	Lower	Upper
50	100		
52	30.6	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

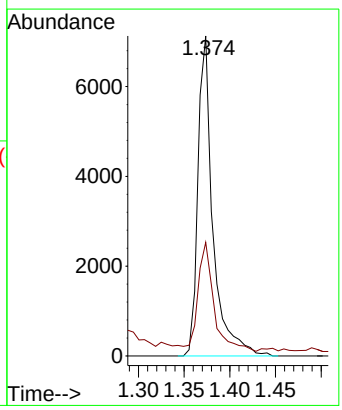
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

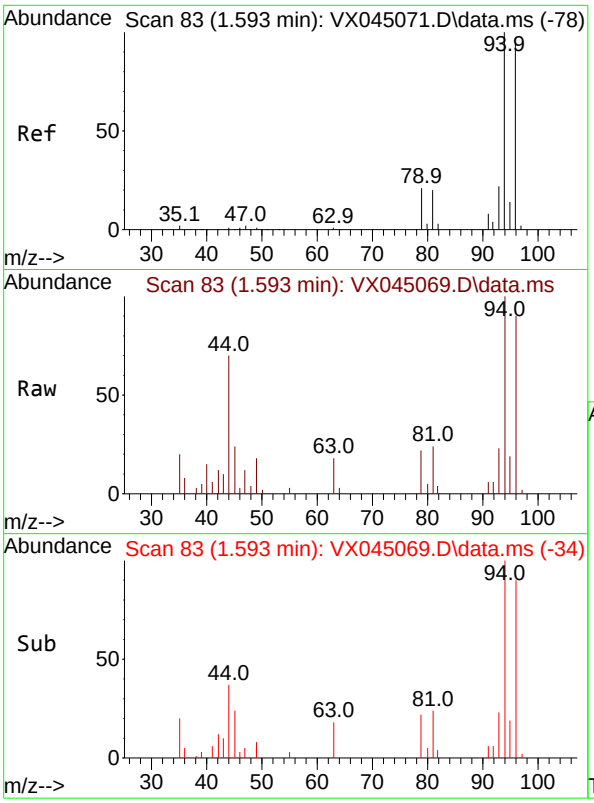


#4
Vinyl Chloride
Concen: 4.608 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 8106

Ion	Ratio	Lower	Upper
62	100		
64	33.9	24.3	36.5

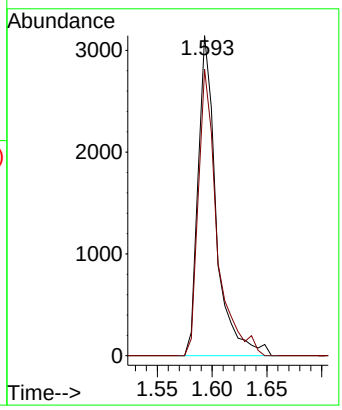




#5
Bromomethane
Concen: 6.582 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 94 Resp: 362

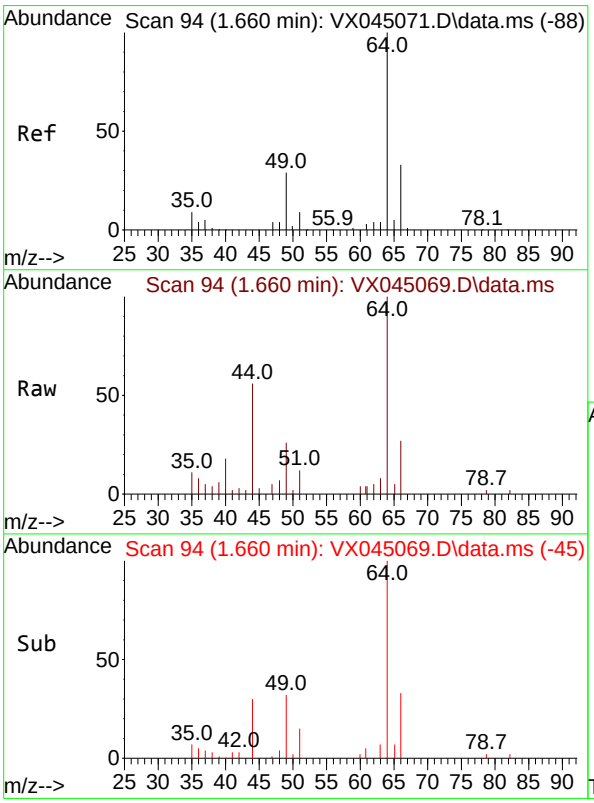
Ion	Ratio	Lower	Upper
94	100		
96	89.5	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

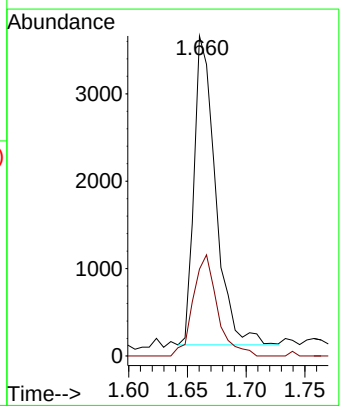
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

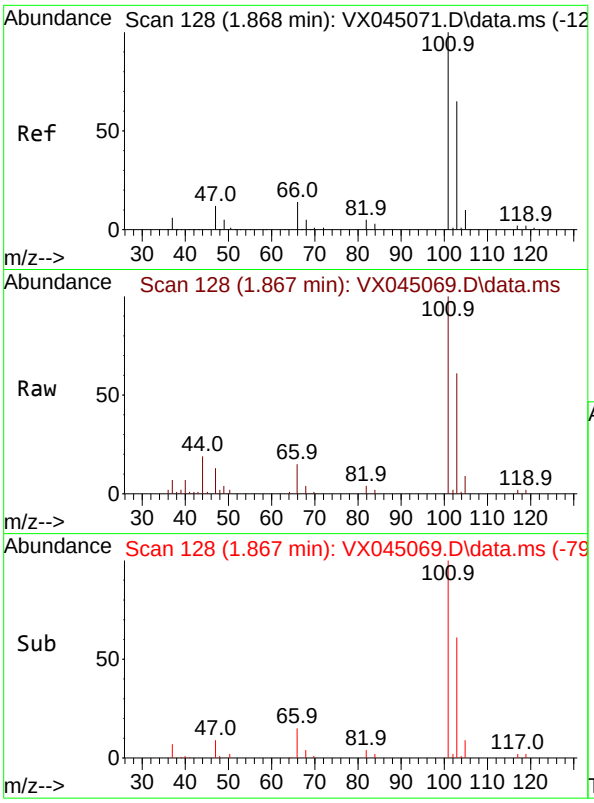


#6
Chloroethane
Concen: 6.746 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 64 Resp: 4517

Ion	Ratio	Lower	Upper
64	100		
66	28.1	26.7	40.1

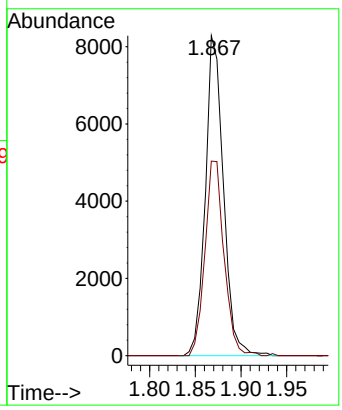




#7
Trichlorofluoromethane
Concen: 5.056 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:101 Resp: 1139

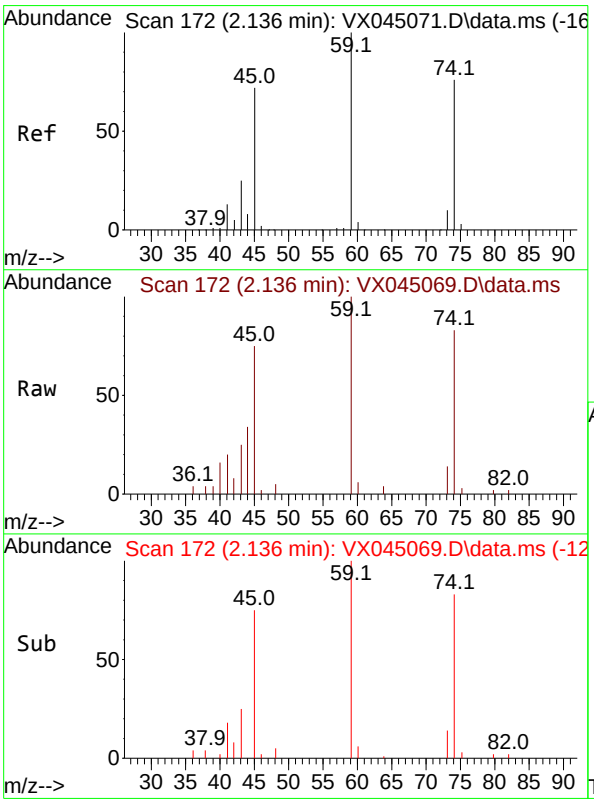
Ion	Ratio	Lower	Upper
101	100		
103	60.8	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

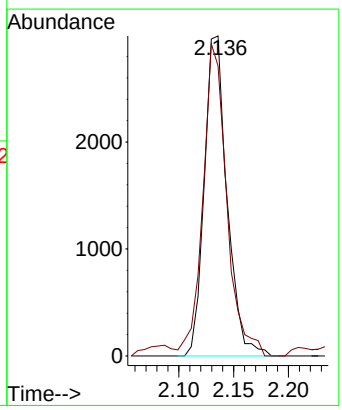
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

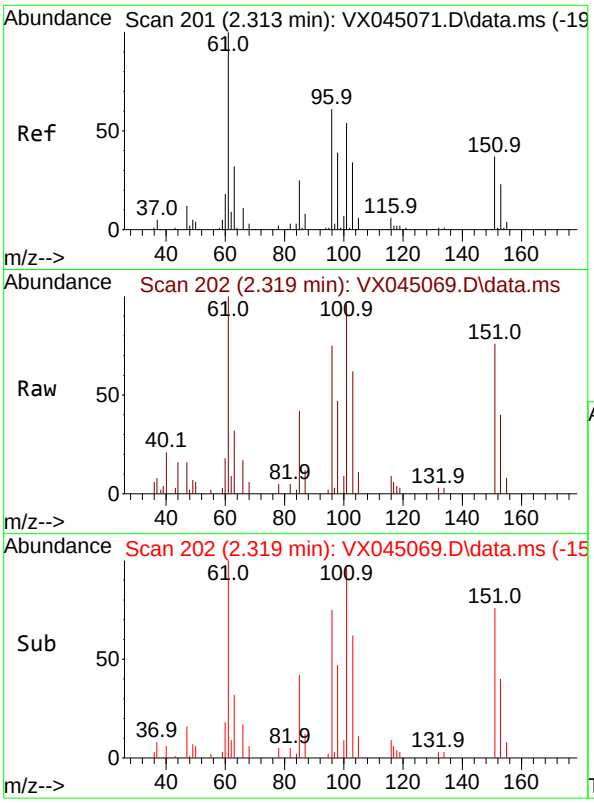


#8
Diethyl Ether
Concen: 5.268 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 74 Resp: 4314

Ion	Ratio	Lower	Upper
74	100		
45	101.9	51.5	154.5

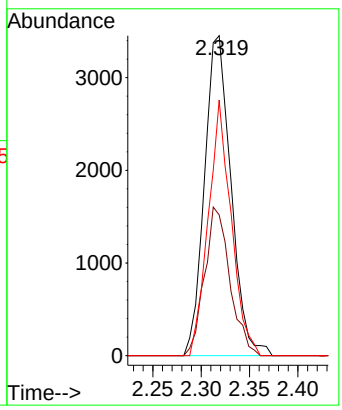




#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.894 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:101 Resp: 658

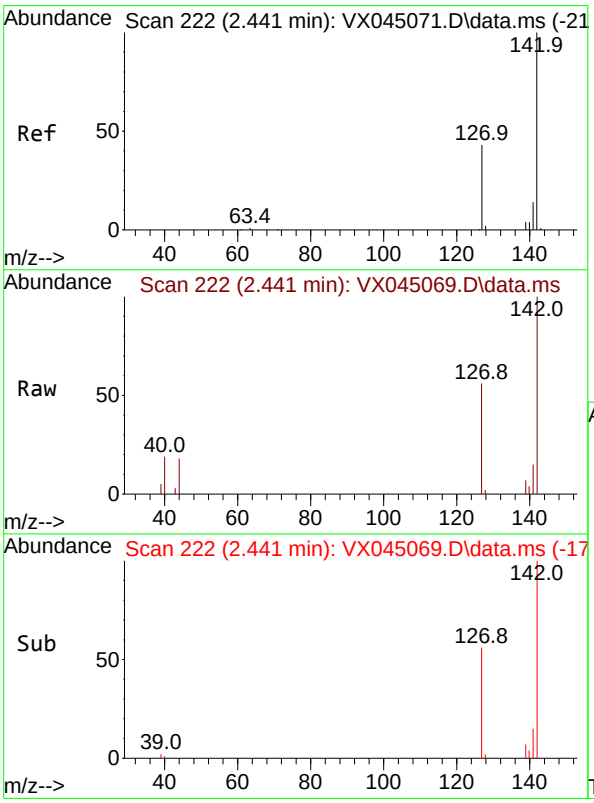
Ion	Ratio	Lower	Upper
101	100		
85	44.4	36.2	54.4
151	69.0	56.4	84.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

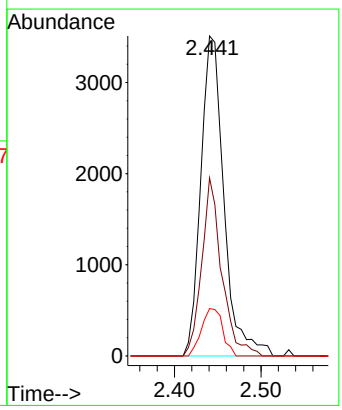
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

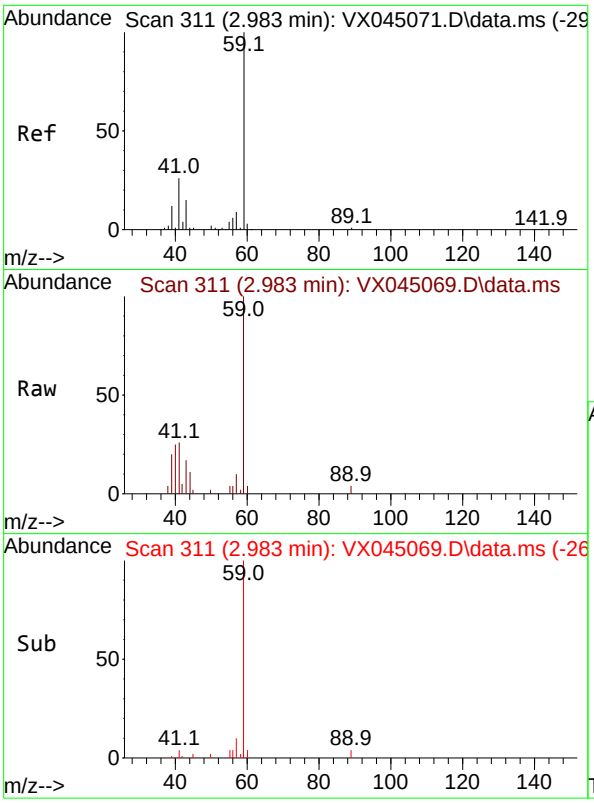


#10
Methyl Iodide
Concen: 3.780 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:142 Resp: 6520

Ion	Ratio	Lower	Upper
142	100		
127	48.1	35.4	53.2
141	13.5	11.6	17.4

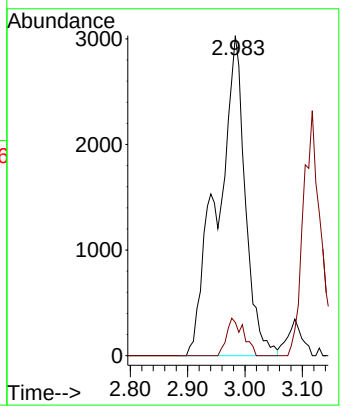




#11
Tert butyl alcohol
Concen: 34.976 ug/l m
RT: 2.983 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 59 Resp: 1016

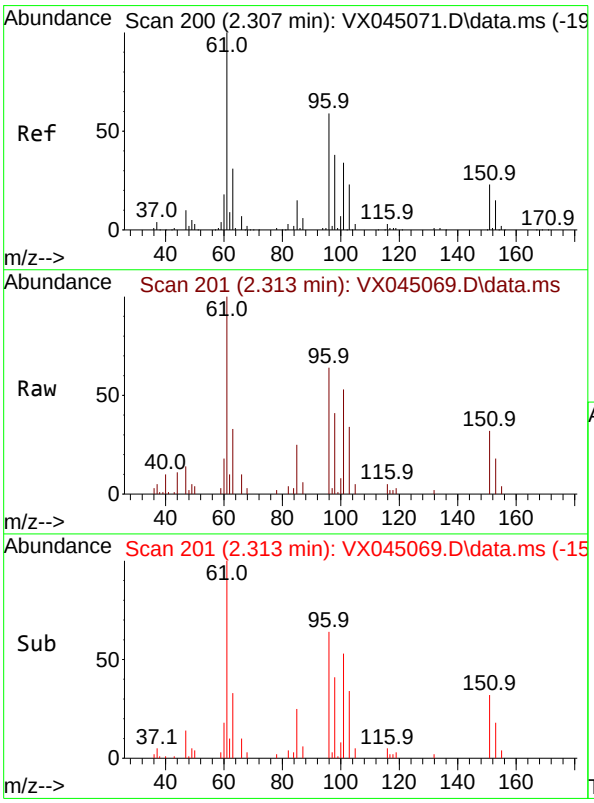
Ion	Ratio	Lower	Upper
59	100		
57	7.2	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

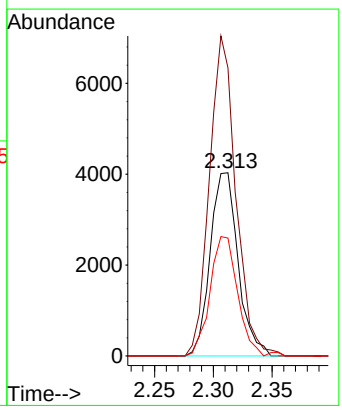
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

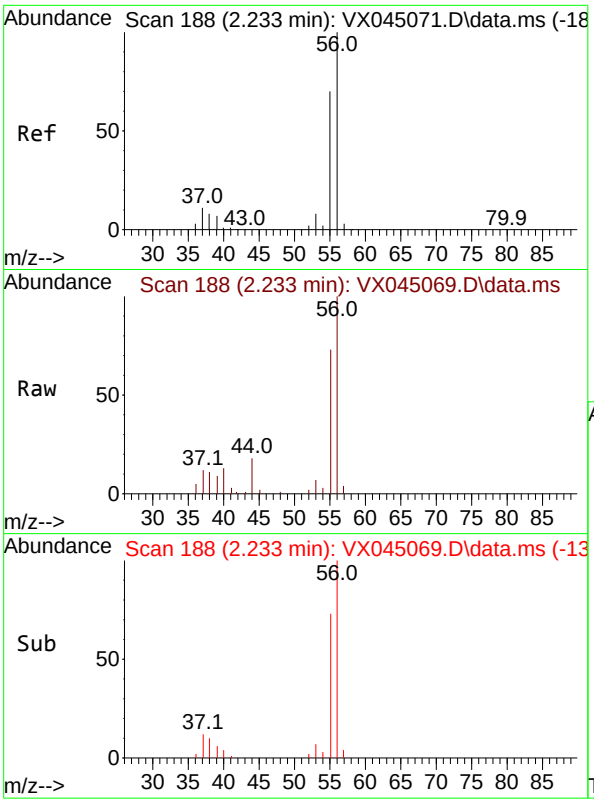


#12
1,1-Dichloroethene
Concen: 4.819 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 96 Resp: 6658

Ion	Ratio	Lower	Upper
96	100		
61	157.3	134.6	202.0
98	64.3	51.0	76.6

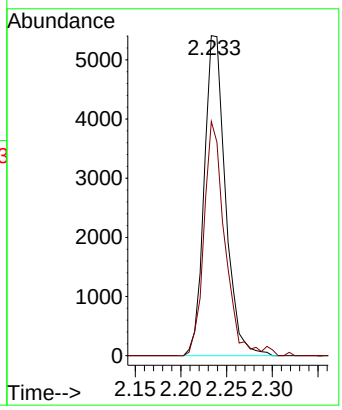




#13
Acrolein
Concen: 27.725 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 56 Resp: 872

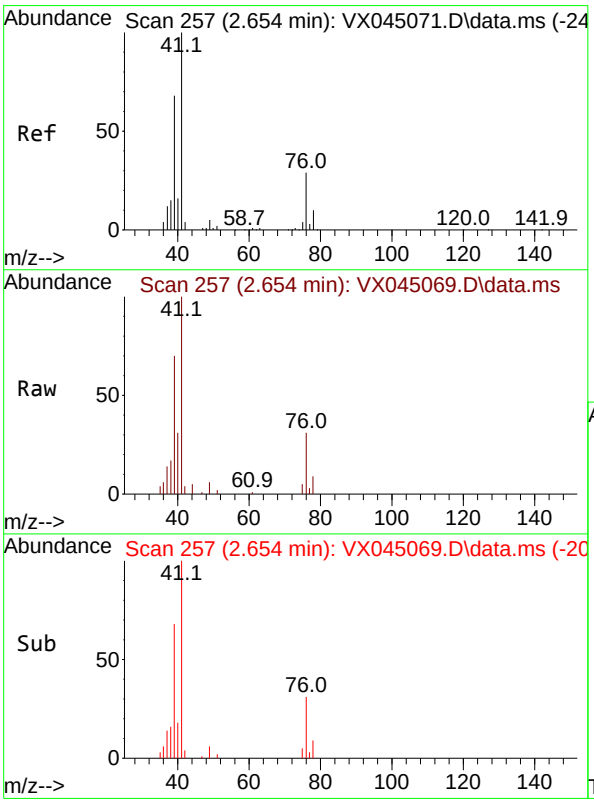
Ion	Ratio	Lower	Upper
56	100		
55	72.4	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

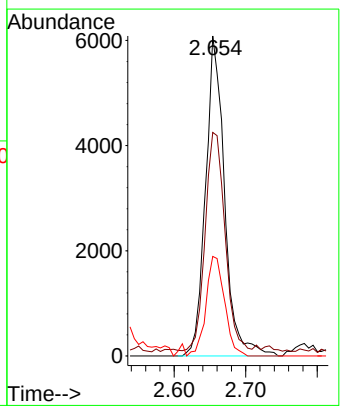
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

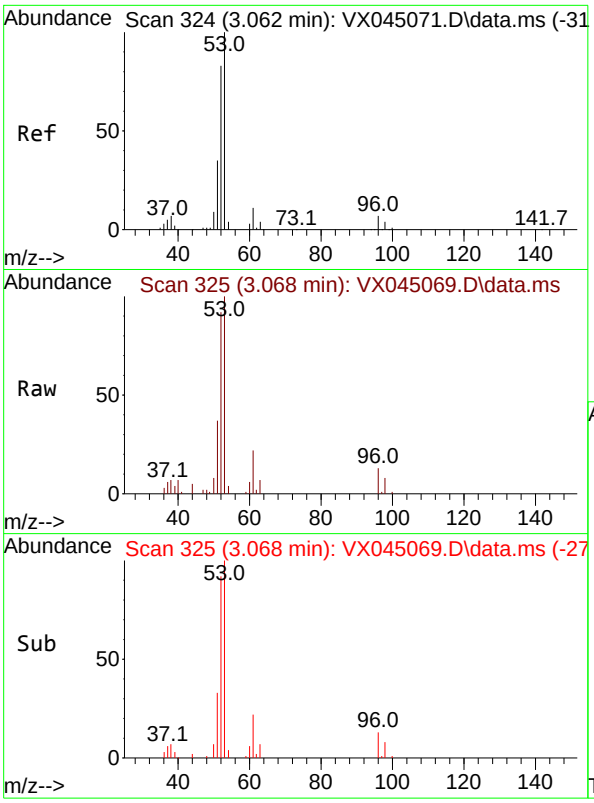


#14
Allyl chloride
Concen: 4.527 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 11244

Ion	Ratio	Lower	Upper
41	100		
39	70.8	53.8	80.8
76	30.4	25.2	37.8

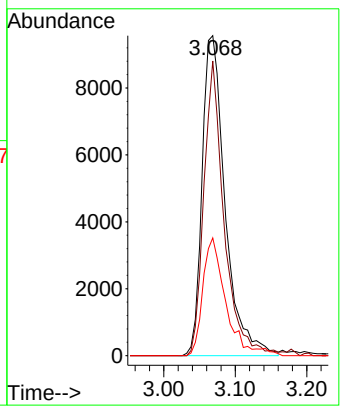




#15
Acrylonitrile
Concen: 27.072 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 53 Resp: 2138

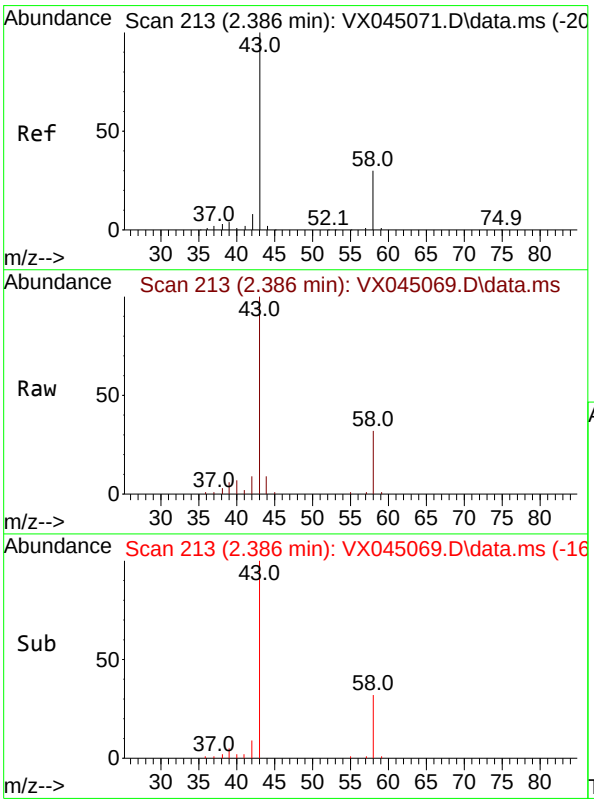
Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.2	99.2
51	36.7	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

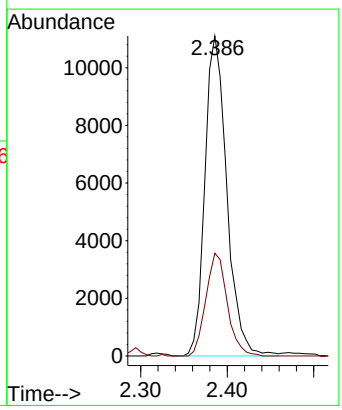
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

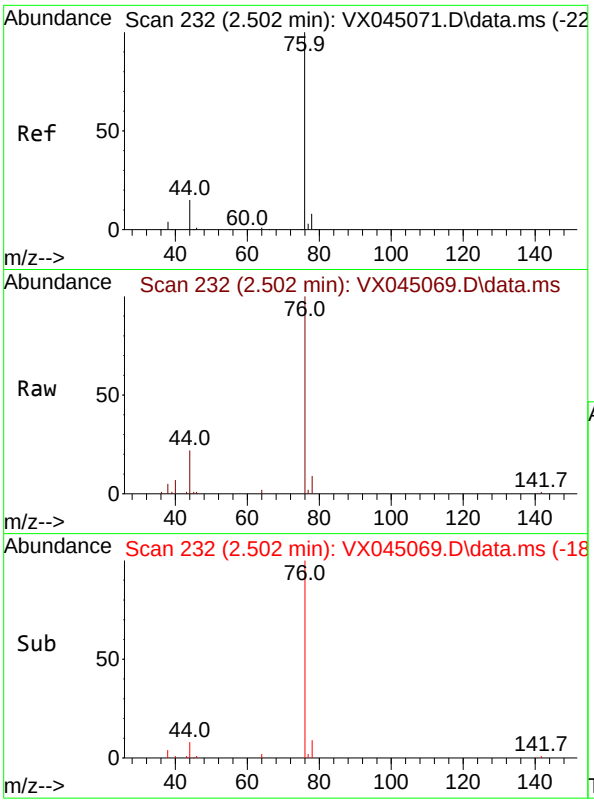


#16
Acetone
Concen: 29.891 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 19512

Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.2	36.4





#17
Carbon Disulfide
Concen: 4.518 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

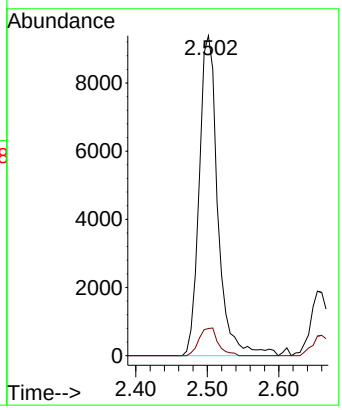
Tgt Ion: 76 Resp: 1698

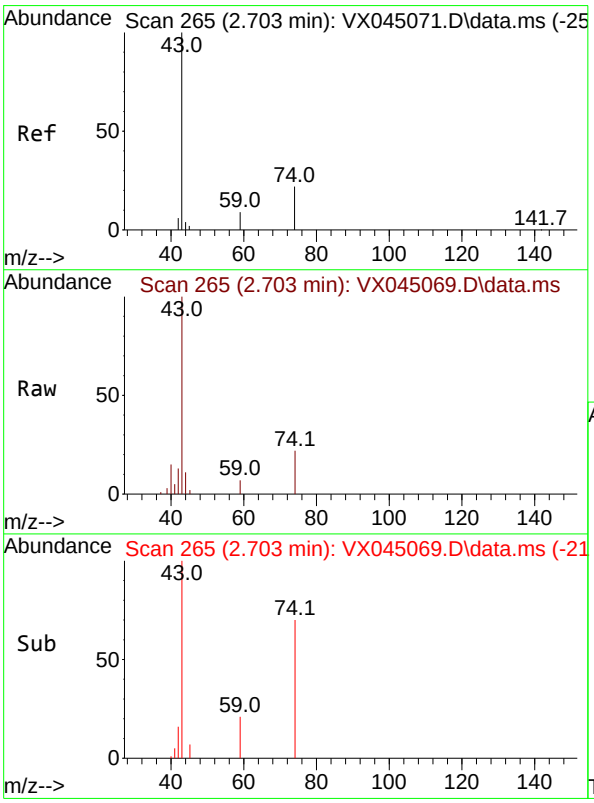
Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

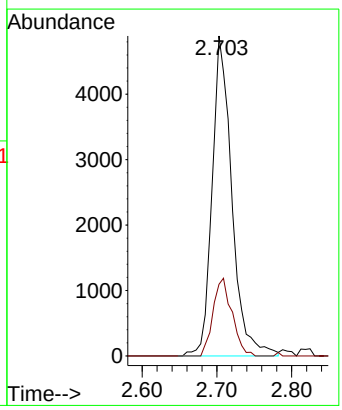


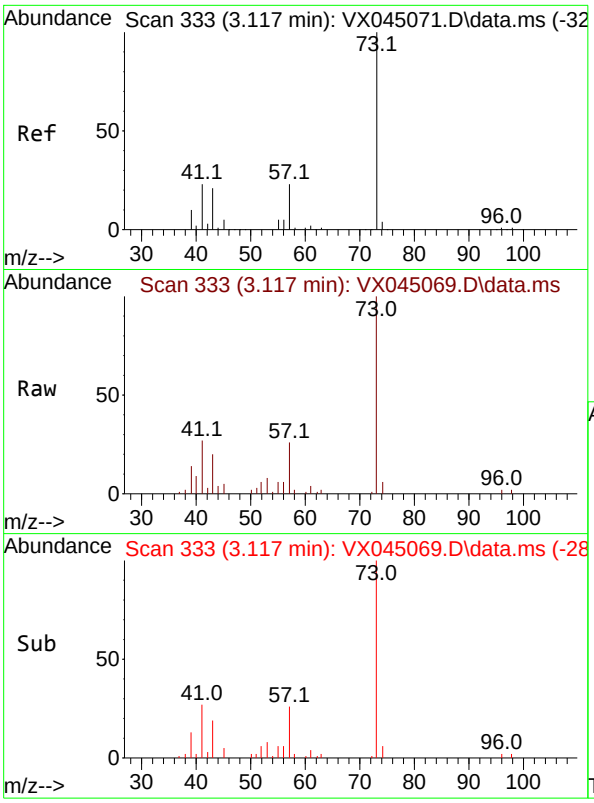


#18
Methyl Acetate
Concen: 4.559 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 8964

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 4.651 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

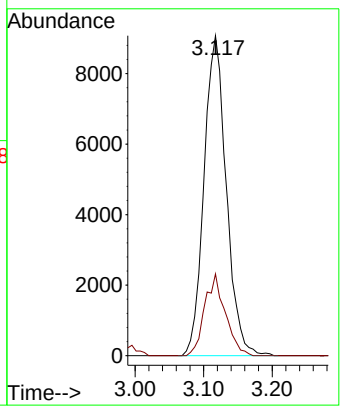
Tgt Ion: 73 Resp: 2054

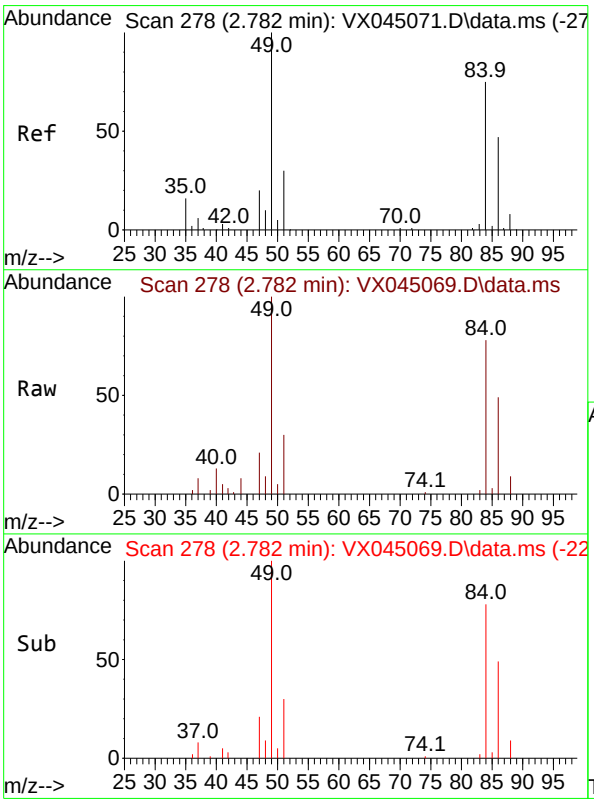
Ion	Ratio	Lower	Upper
73	100		
57	25.6	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

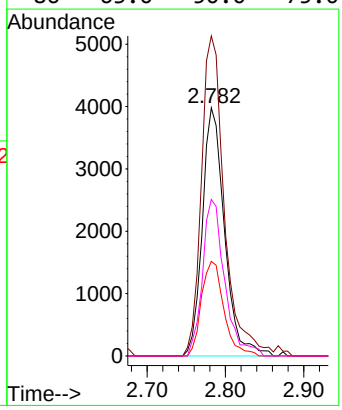


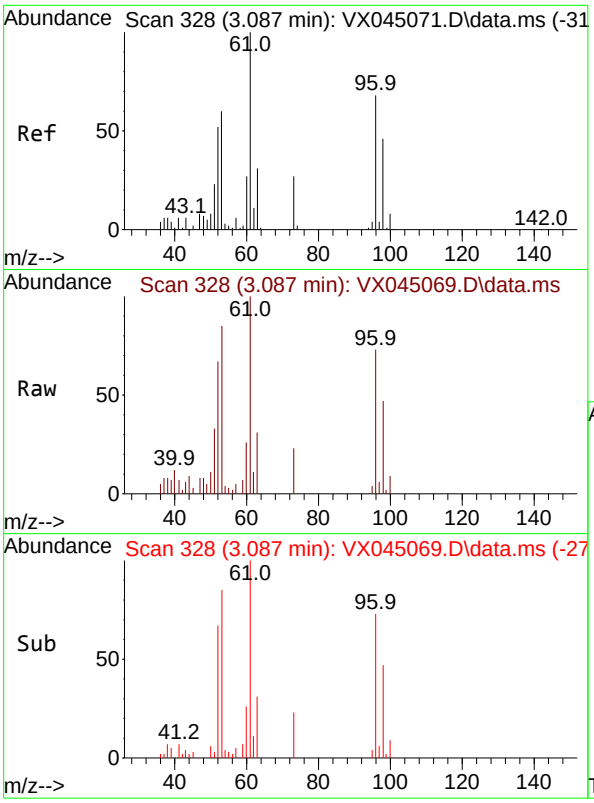


#20
Methylene Chloride
Concen: 5.068 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 84 Resp: 7835

Ion	Ratio	Lower	Upper
84	100		
49	128.9	106.5	159.7
51	38.1	32.1	48.1
86	63.0	50.0	75.0

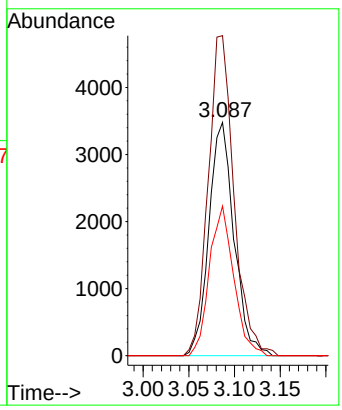




#21
trans-1,2-Dichloroethene
Concen: 4.895 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 96 Resp: 665

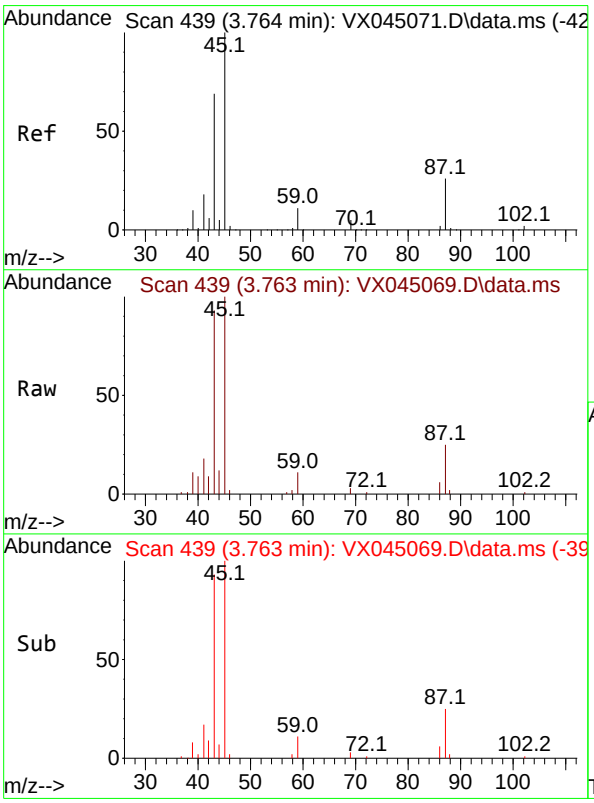
Ion	Ratio	Lower	Upper
96	100		
61	137.2	117.0	175.4
98	64.1	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

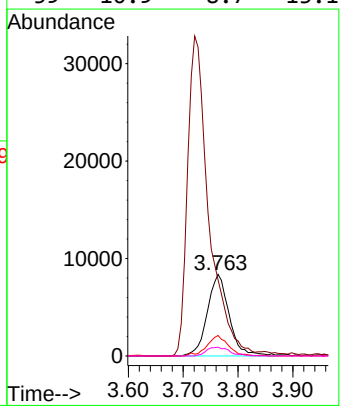
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

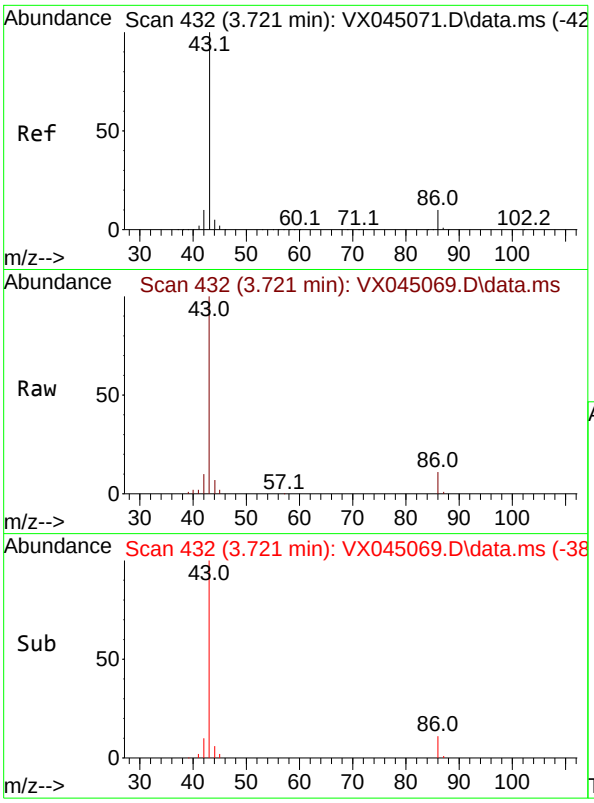


#22
Diisopropyl ether
Concen: 4.875 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 45 Resp: 23151

Ion	Ratio	Lower	Upper
45	100		
43	90.2	54.9	82.3#
87	25.1	21.0	31.4
59	10.9	8.7	13.1





#23
Vinyl Acetate
Concen: 22.788 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

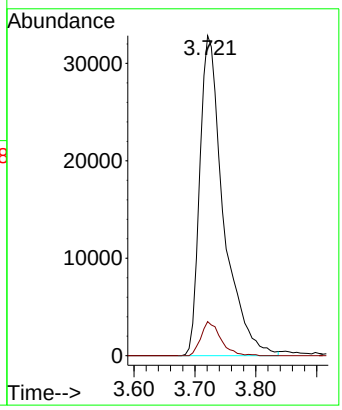
Tgt Ion: 43 Resp: 8885

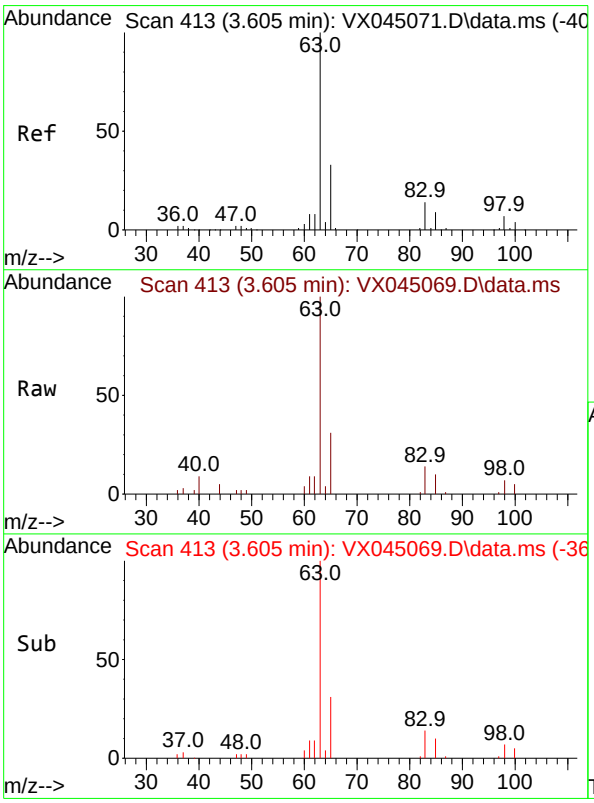
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

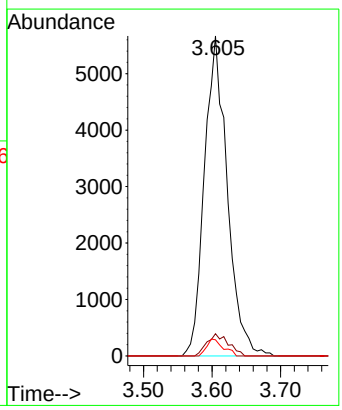


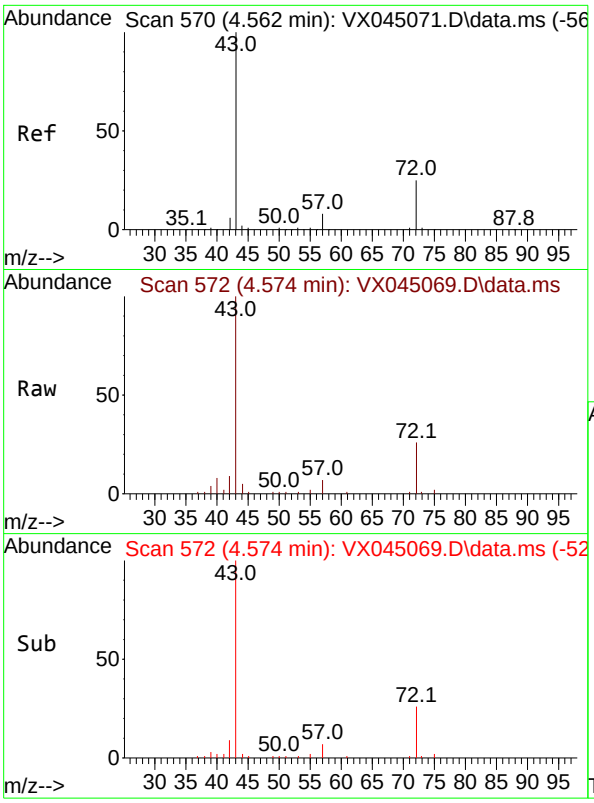


#24
1,1-Dichloroethane
Concen: 4.949 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 13132

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	5.1	2.1	6.5

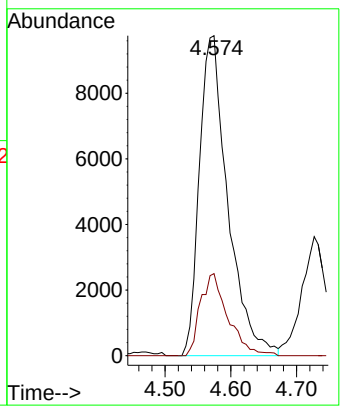




#25
2-Butanone
Concen: 27.819 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 2927

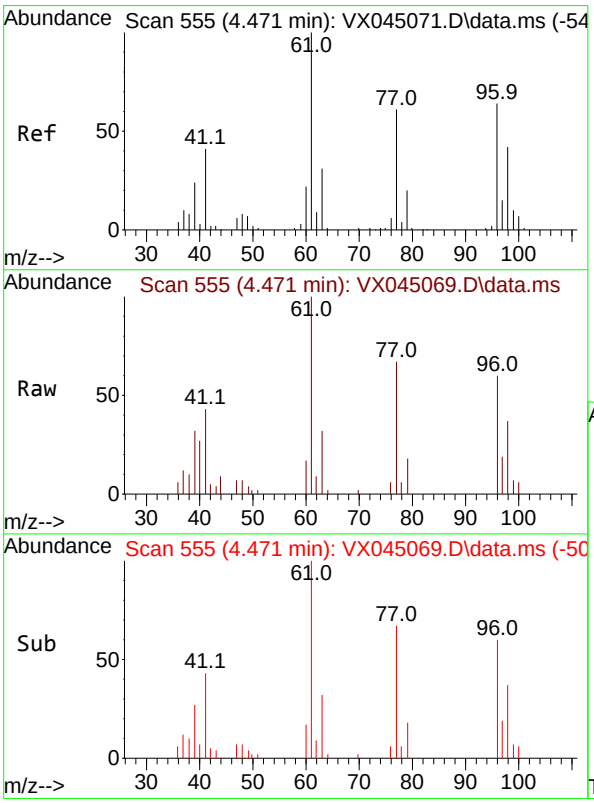
Ion	Ratio	Lower	Upper
43	100		
72	25.7	20.0	30.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

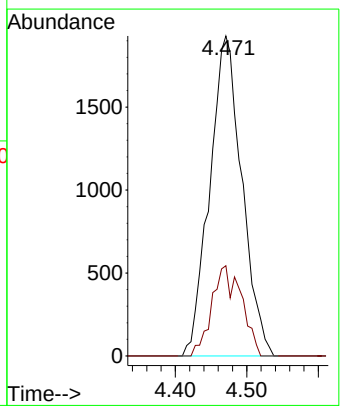
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

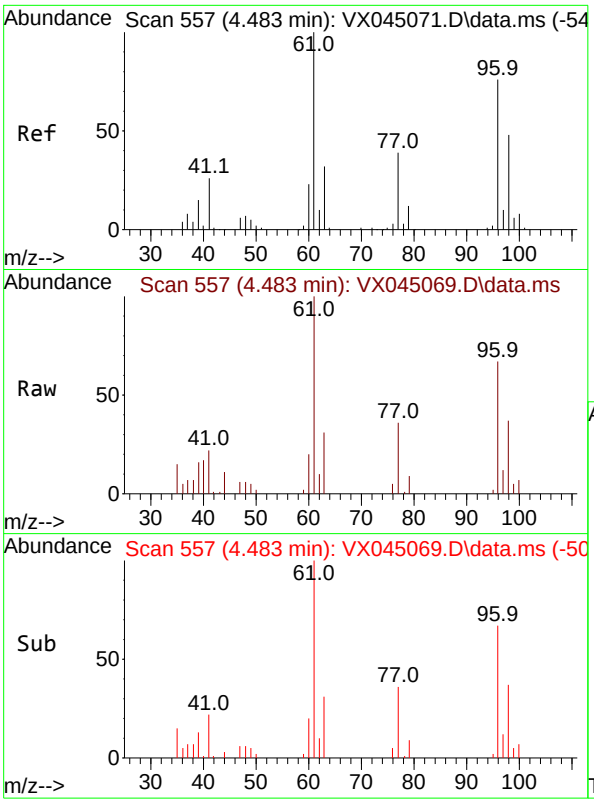


#26
2,2-Dichloropropane
Concen: 3.059 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 77 Resp: 6034

Ion	Ratio	Lower	Upper
77	100		
97	26.0	12.4	37.0

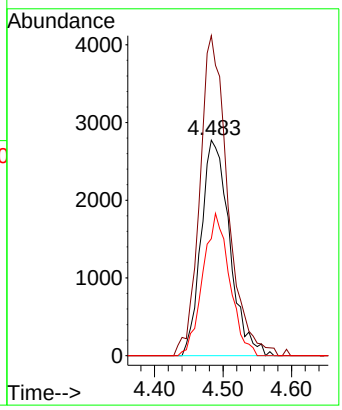




#27
cis-1,2-Dichloroethene
Concen: 4.892 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 96 Resp: 801

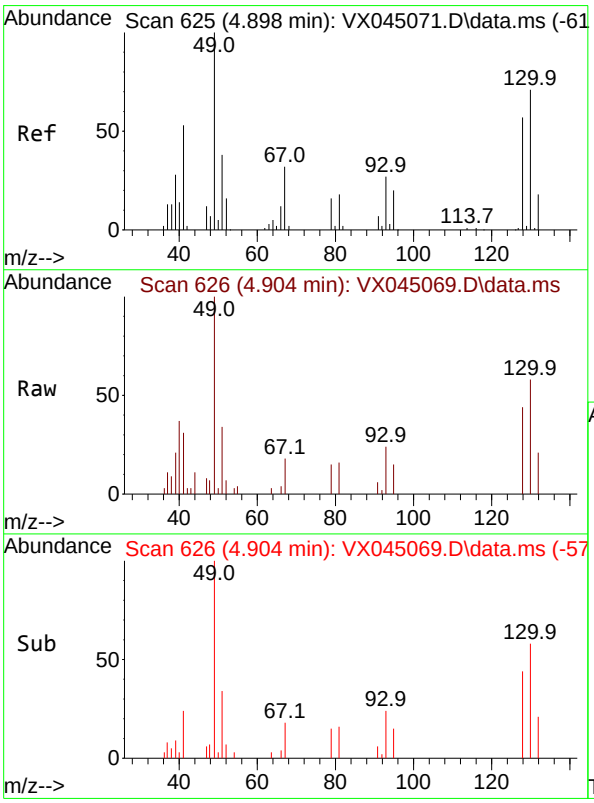
Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	283.2
98	62.0	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

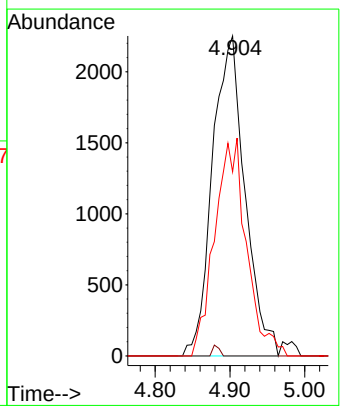
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

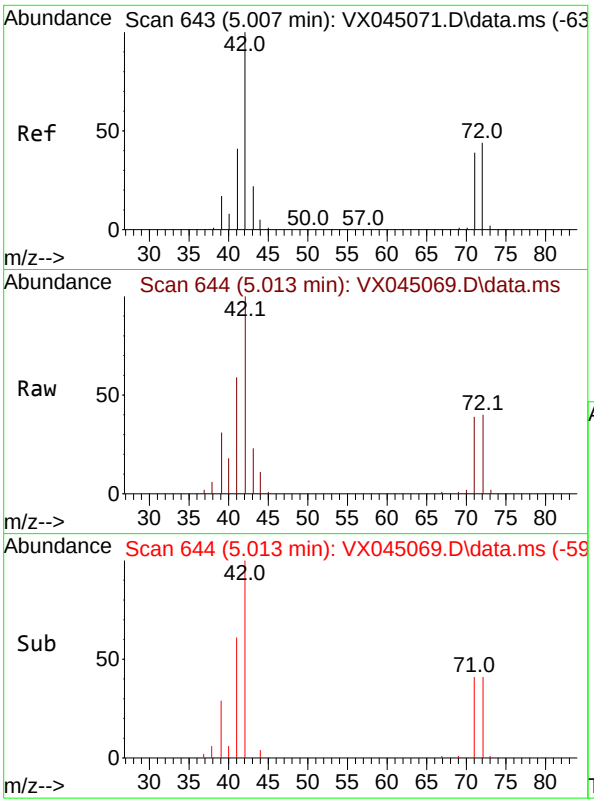


#28
Bromochloromethane
Concen: 5.311 ug/l
RT: 4.904 min Scan# 626
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 49 Resp: 6797

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	66.5	56.1	84.1

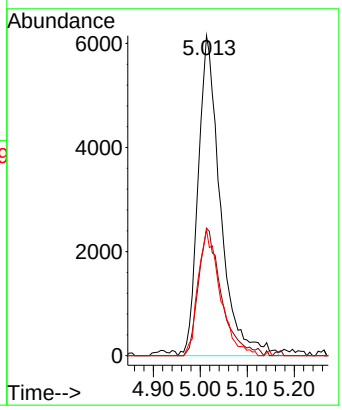




#29
Tetrahydrofuran
Concen: 28.950 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 42 Resp: 2018

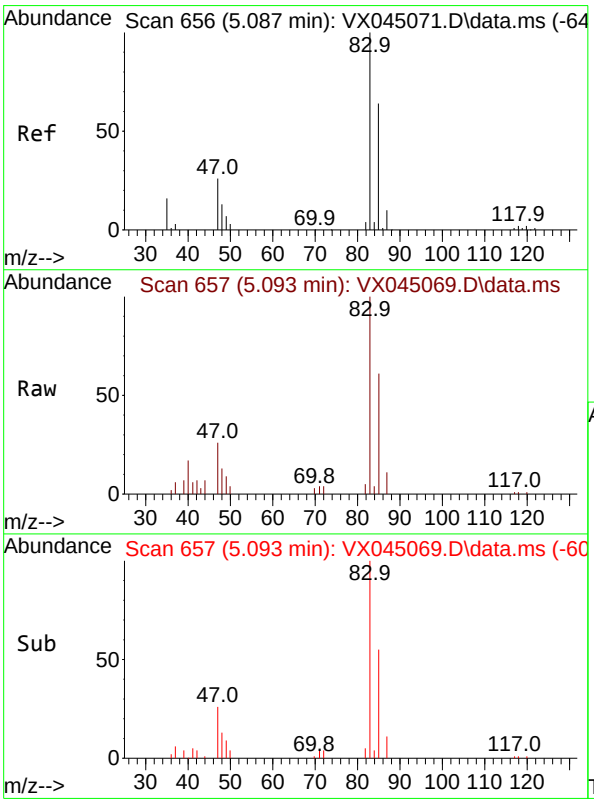
Ion	Ratio	Lower	Upper
42	100		
72	41.2	34.1	51.1
71	39.3	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

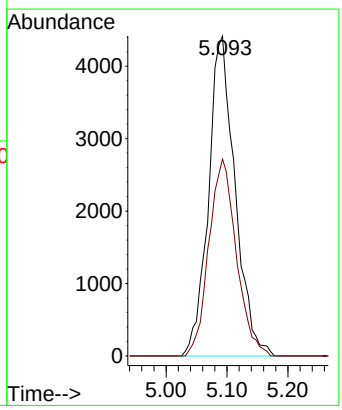
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

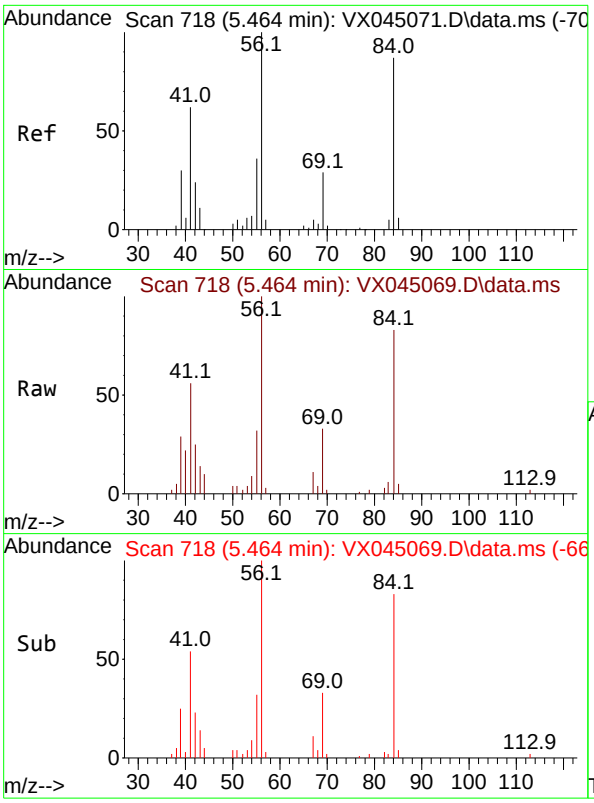


#30
Chloroform
Concen: 5.159 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 13390

Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.4	77.2

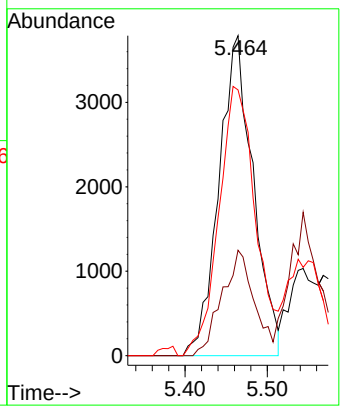




#31
Cyclohexane
Concen: 4.504 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 56 Resp: 1096

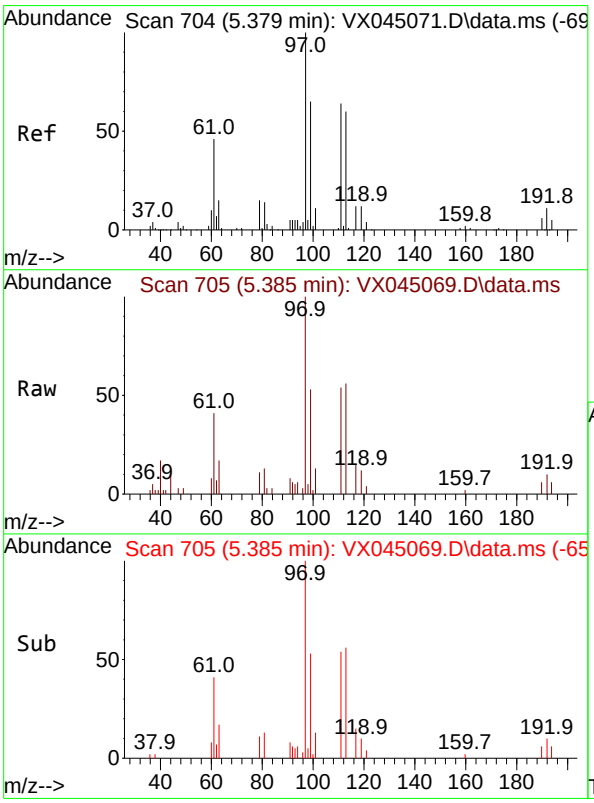
Ion	Ratio	Lower	Upper
56	100		
69	33.0	23.4	35.2
84	83.1	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

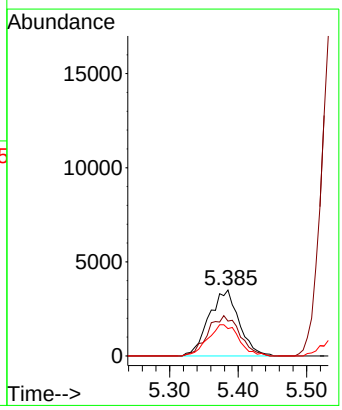
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

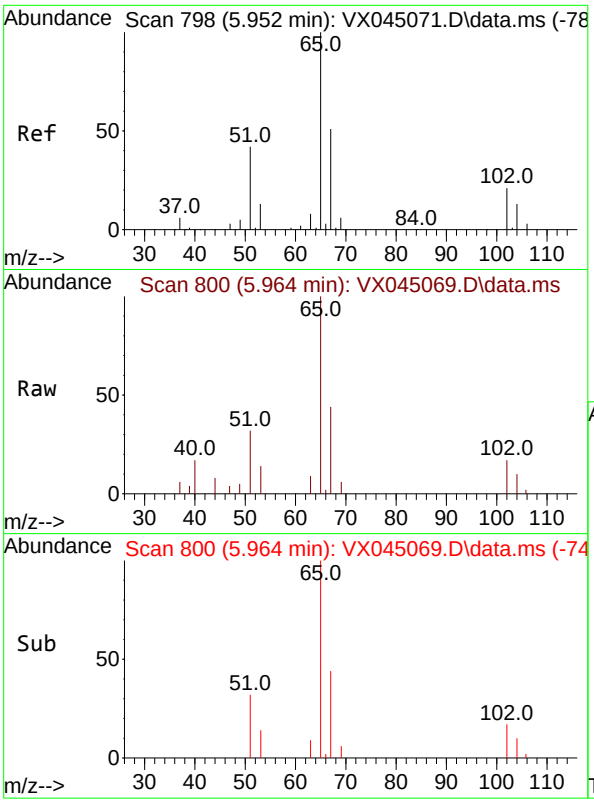


#32
1,1,1-Trichloroethane
Concen: 4.876 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 97 Resp: 10654

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	48.7	38.4	57.6

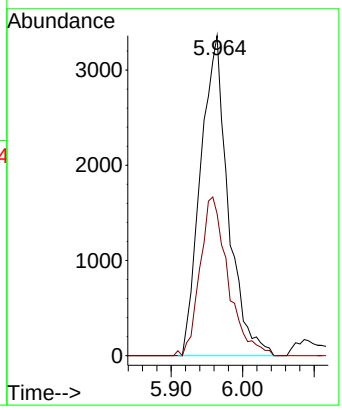




#33
1,2-Dichloroethane-d4
Concen: 5.659 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 65 Resp: 897

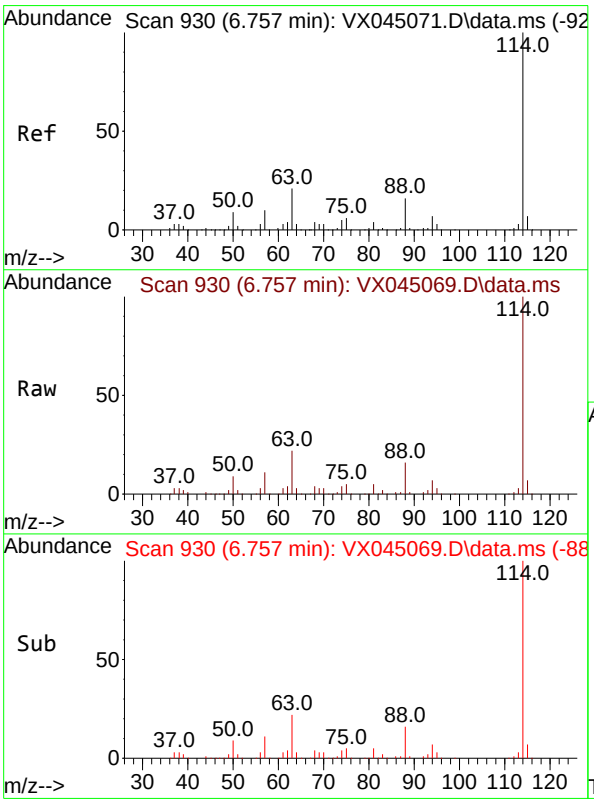
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

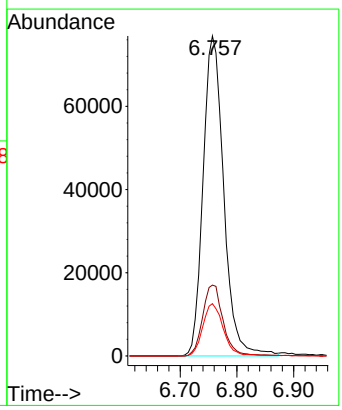
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

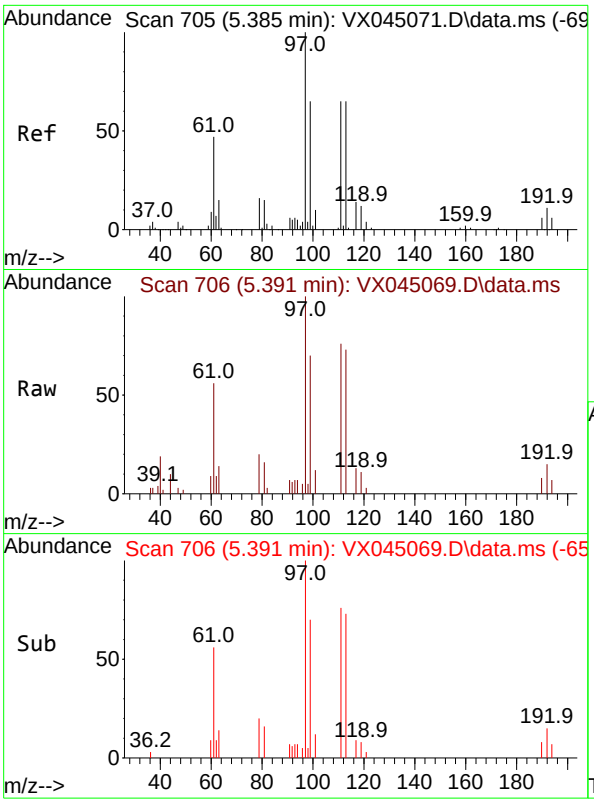


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:114 Resp: 194243

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	41.8
88	16.4	0.0	32.8

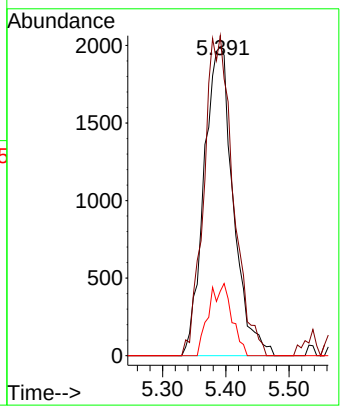




#35
Dibromofluoromethane
Concen: 5.039 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:113 Resp: 639

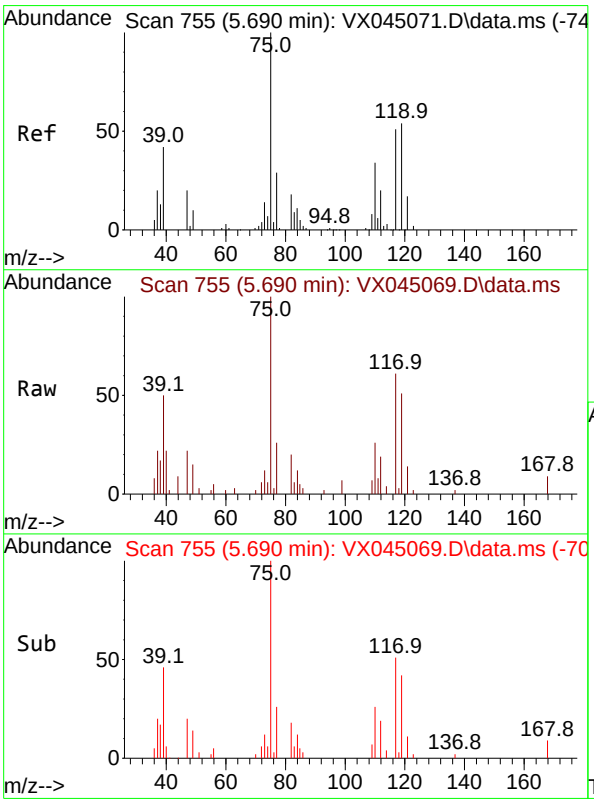
Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	18.3	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

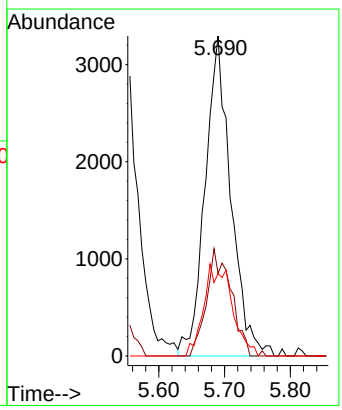
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

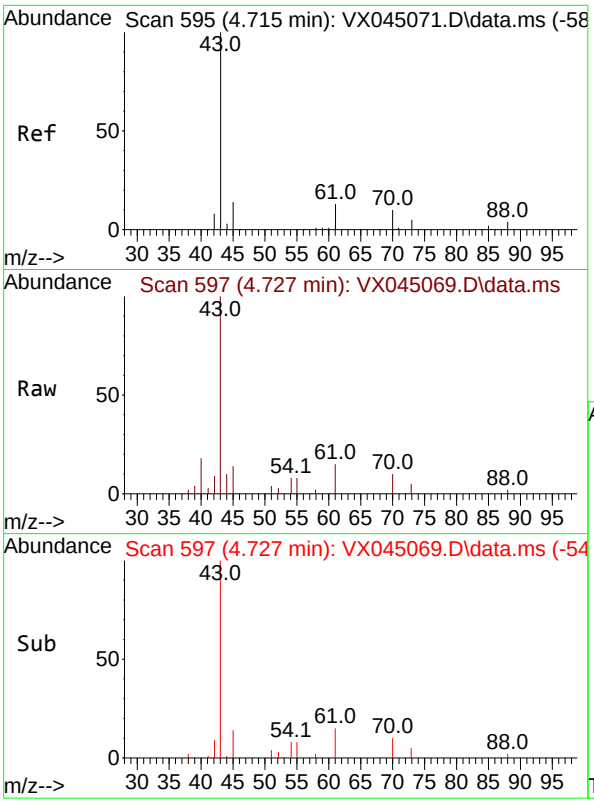


#36
1,1-Dichloropropene
Concen: 4.917 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8977

Ion	Ratio	Lower	Upper
75	100		
110	31.8	16.9	50.6
77	13.2	24.5	36.7#

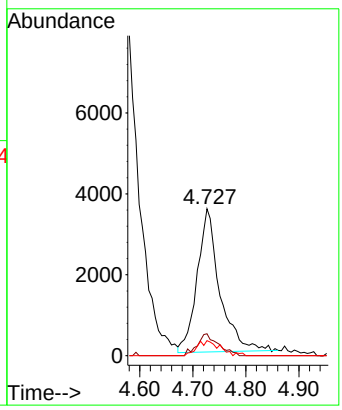




#37
Ethyl Acetate
Concen: 5.035 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 1045

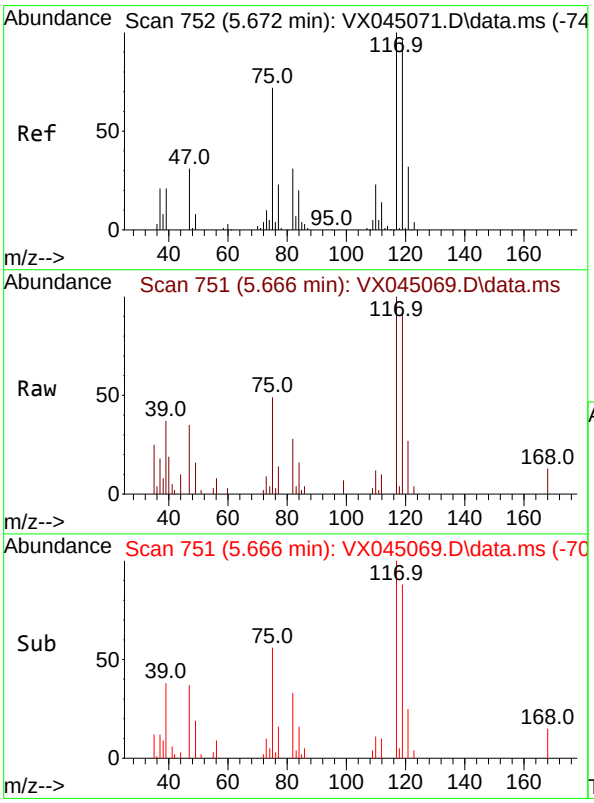
Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.8	16.2
70	10.2	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

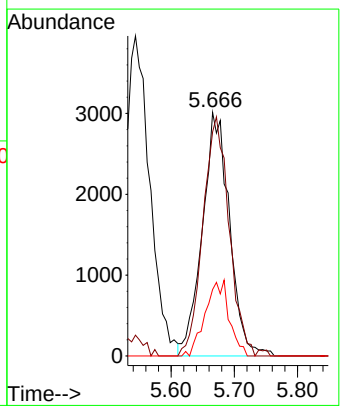
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

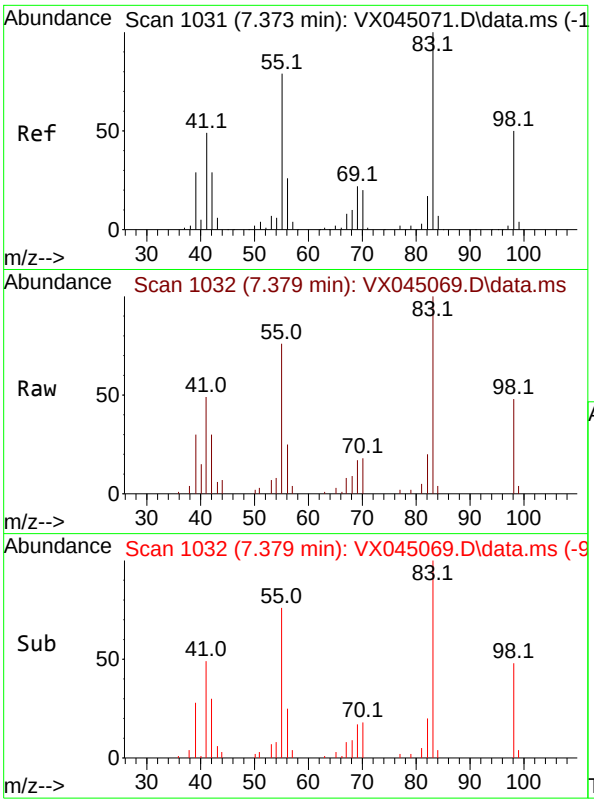


#38
Carbon Tetrachloride
Concen: 5.013 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 8997

Ion	Ratio	Lower	Upper
117	100		
119	92.0	76.7	115.1
121	27.2	25.5	38.3

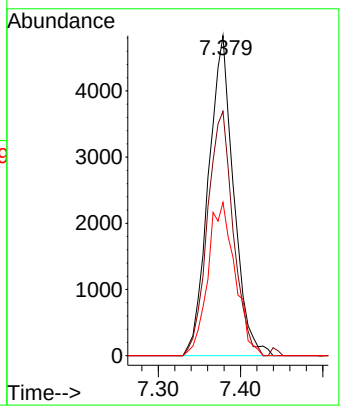




#39
Methylcyclohexane
Concen: 4.414 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 1029

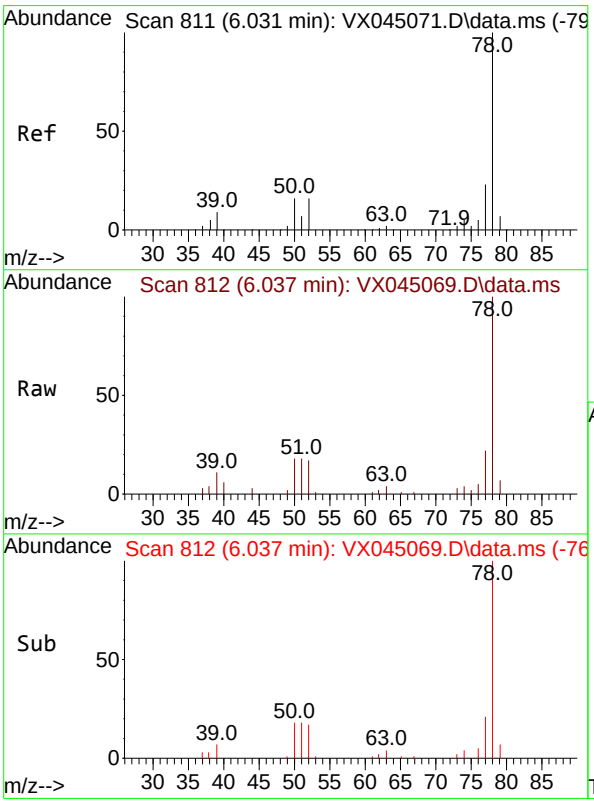
Ion	Ratio	Lower	Upper
83	100		
55	76.4	63.0	94.4
98	47.9	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

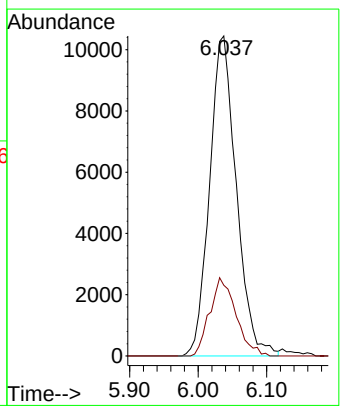
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

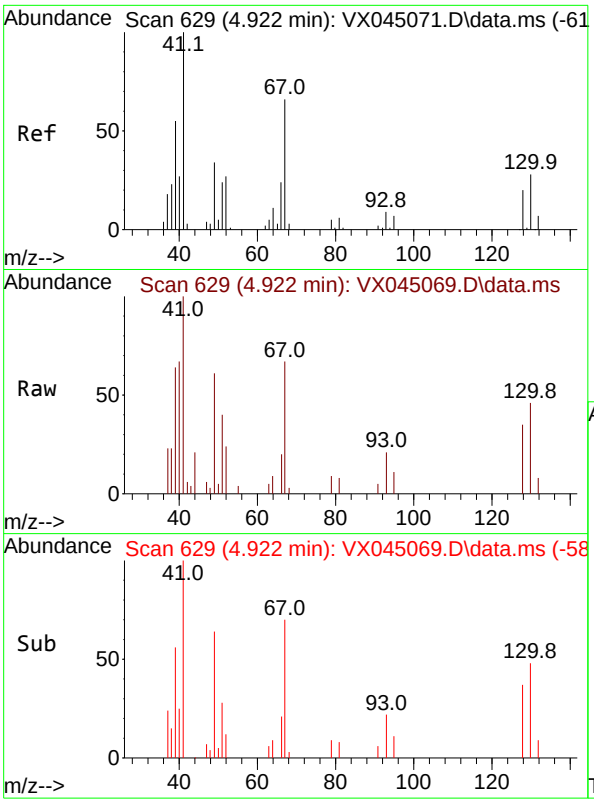


#40
Benzene
Concen: 4.966 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 78 Resp: 28339

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.8	28.2

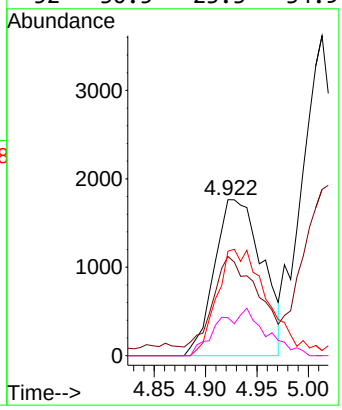




#41
Methacrylonitrile
Concen: 5.136 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 570

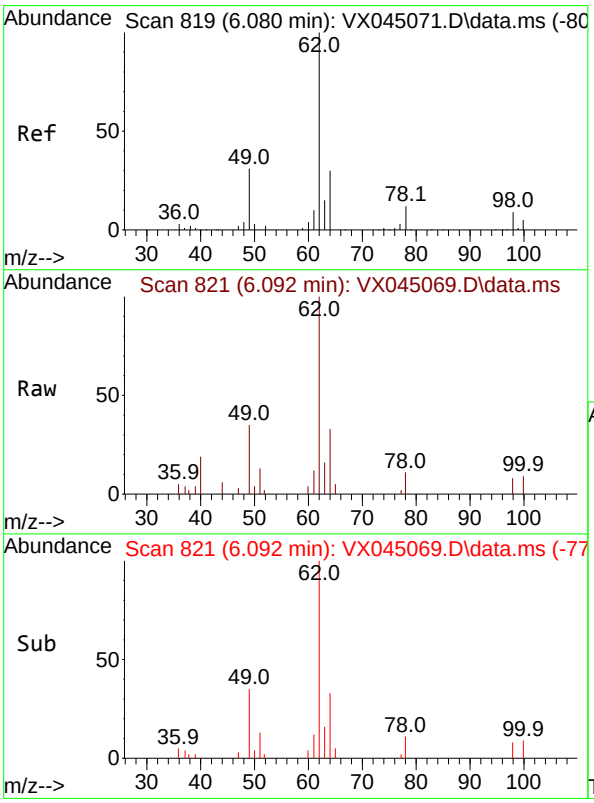
Ion	Ratio	Lower	Upper
41	100		
39	53.3	44.6	67.0
67	73.4	53.9	80.9
52	30.5	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

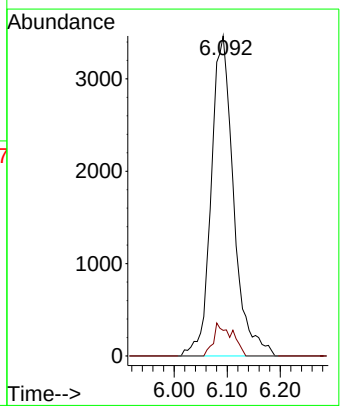
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

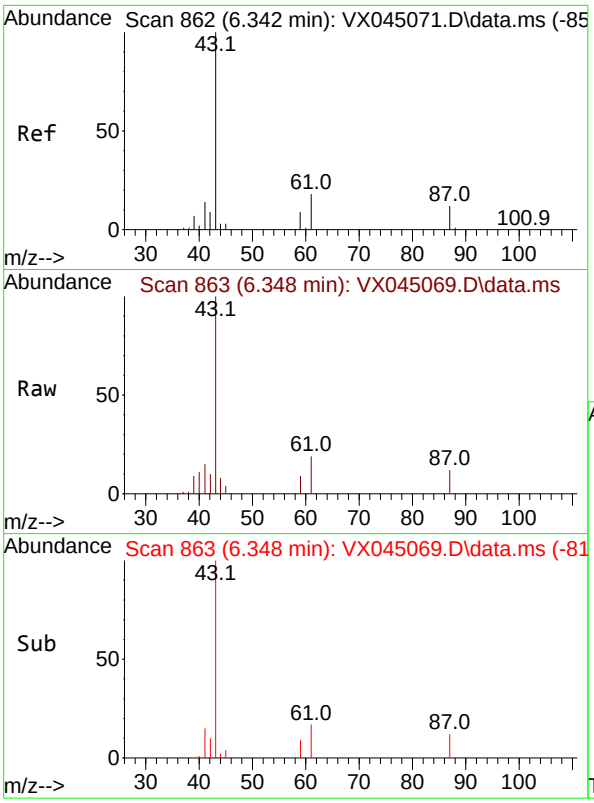


#42
1,2-Dichloroethane
Concen: 5.510 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 10189

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	18.2

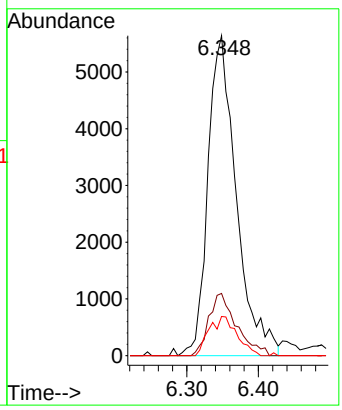




#43
Isopropyl Acetate
Concen: 4.700 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 1554

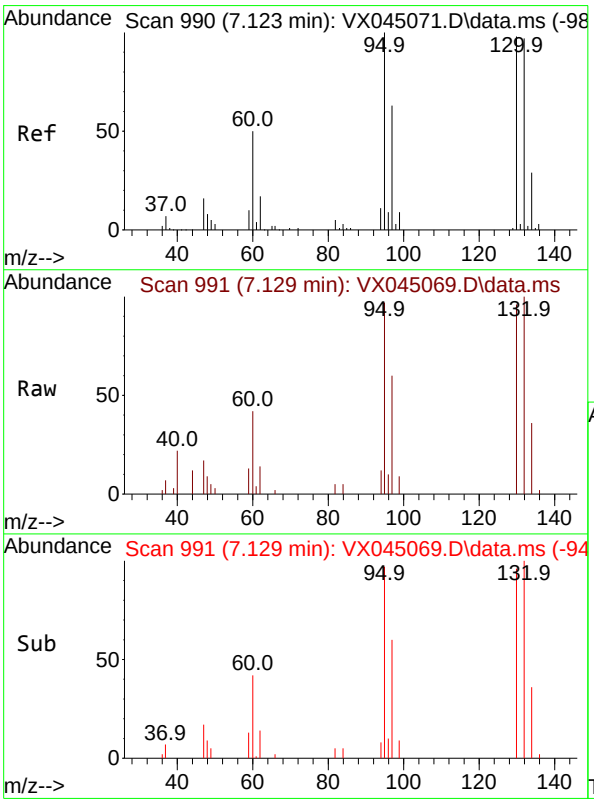
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.9	22.3
87	12.1	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

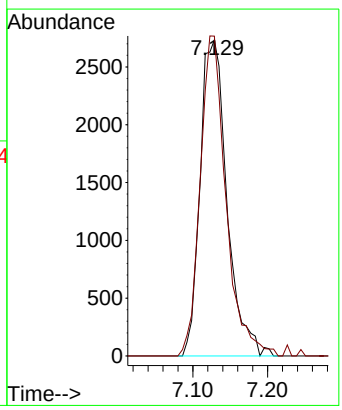
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

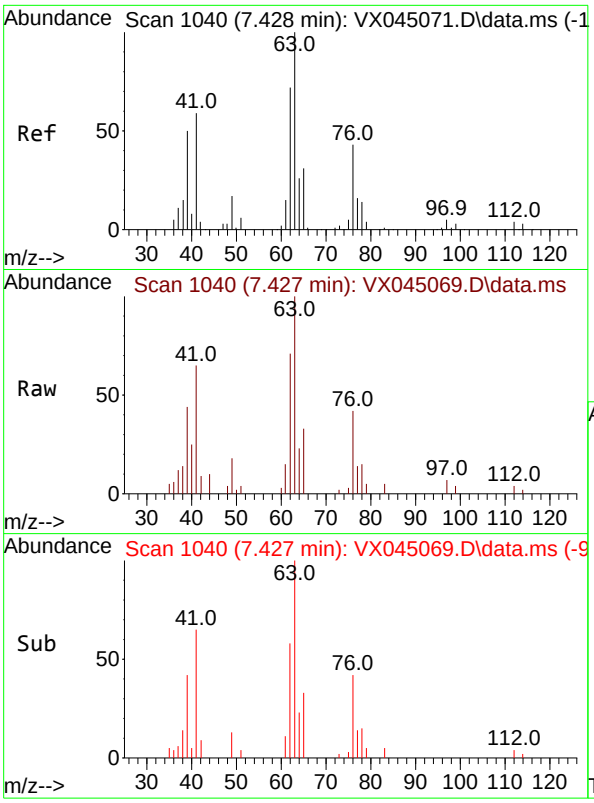


#44
Trichloroethene
Concen: 5.234 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:130 Resp: 6827

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	205.0

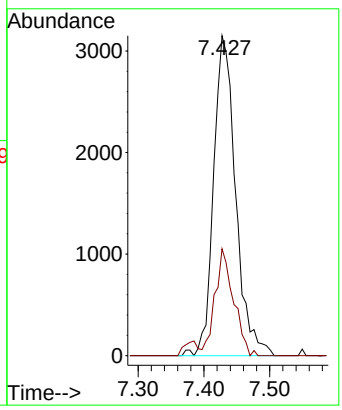




#45
1,2-Dichloropropane
Concen: 5.177 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 734

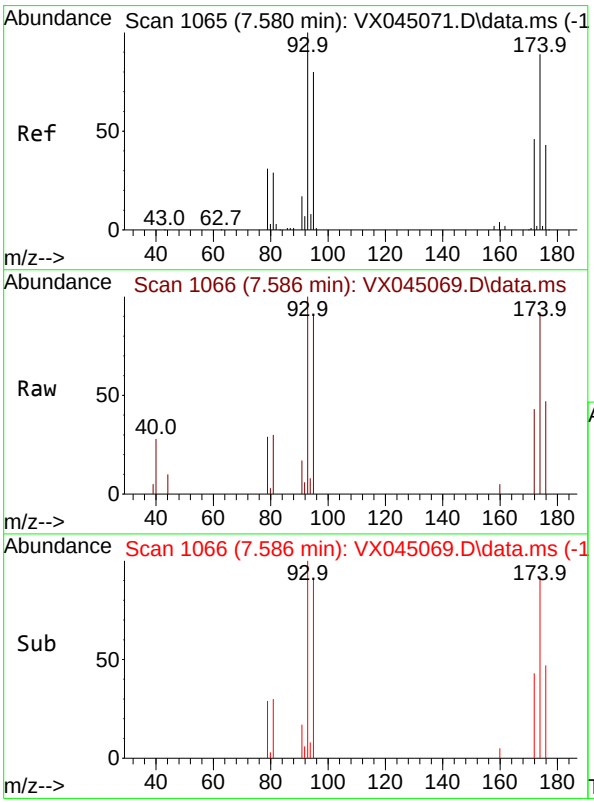
Ion	Ratio	Lower	Upper
63	100		
65	33.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

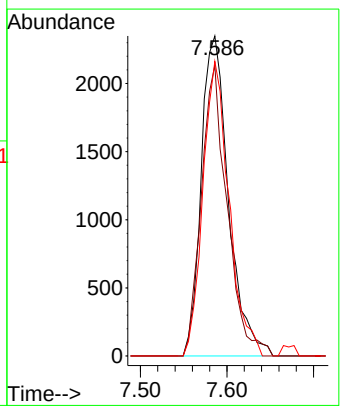
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

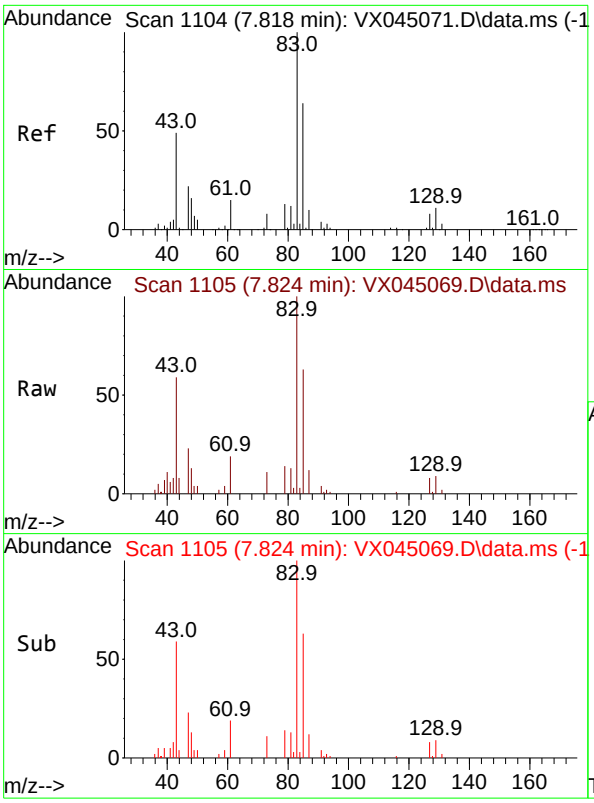


#46
Dibromomethane
Concen: 5.195 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 93 Resp: 5146

Ion	Ratio	Lower	Upper
93	100		
95	86.2	65.8	98.8
174	88.2	72.2	108.2

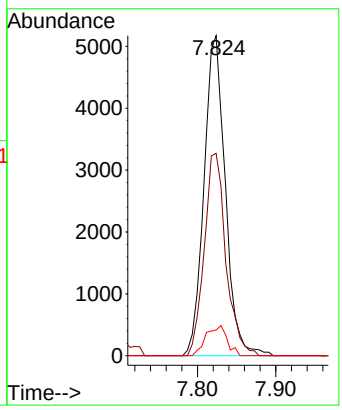




#47
Bromodichloromethane
Concen: 5.100 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 977

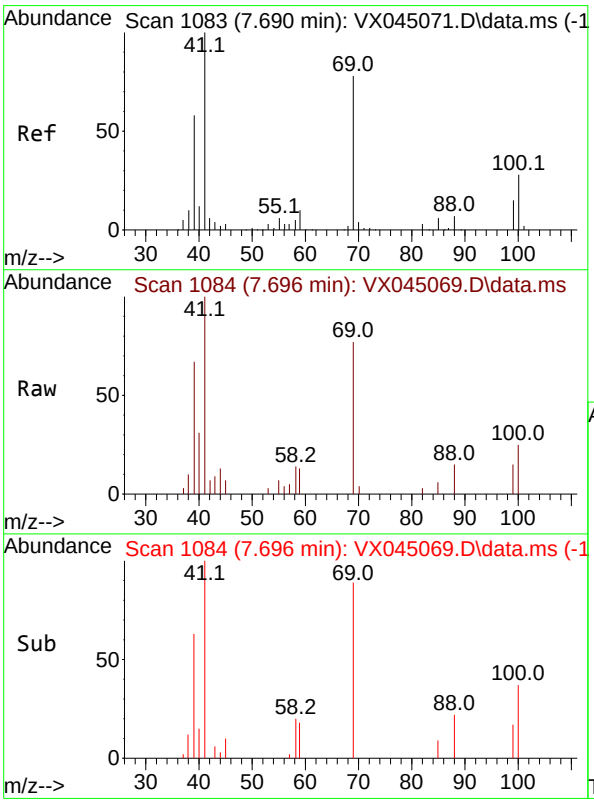
Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.1	76.7
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

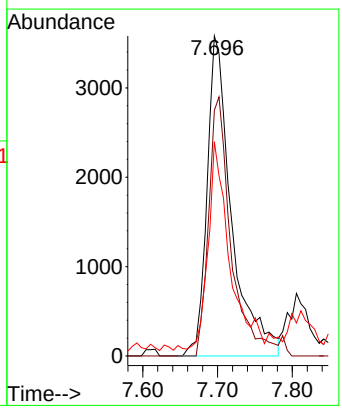
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

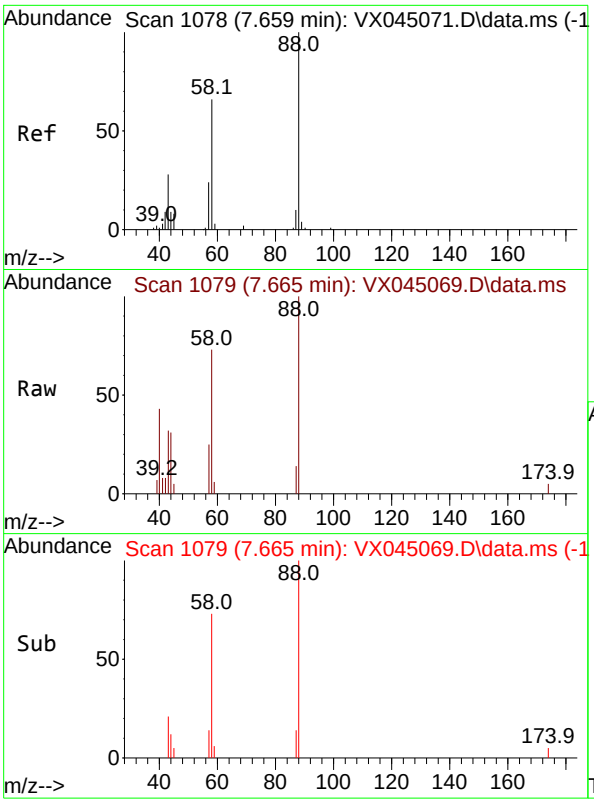


#48
Methyl methacrylate
Concen: 5.224 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 8201

Ion	Ratio	Lower	Upper
41	100		
69	74.0	63.0	94.6
39	55.4	47.5	71.3

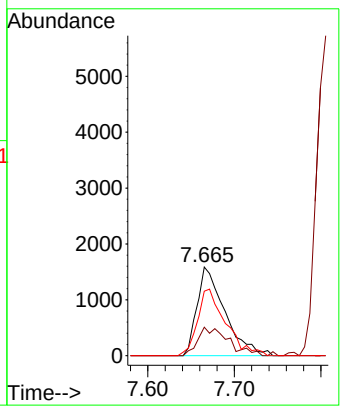




#49
1,4-Dioxane
Concen: 105.826 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 88 Resp: 353

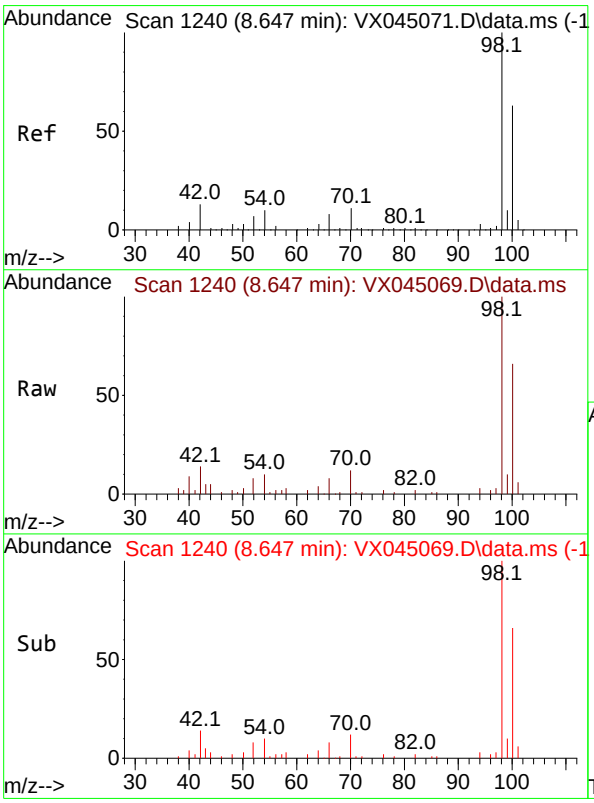
Ion	Ratio	Lower	Upper
88	100		
43	35.2	28.7	43.1
58	75.9	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

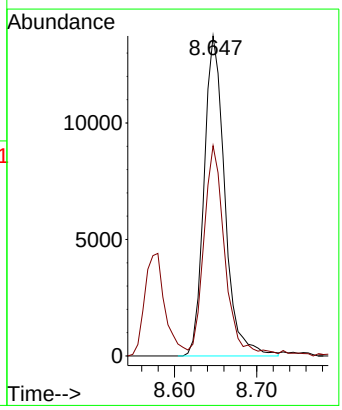
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

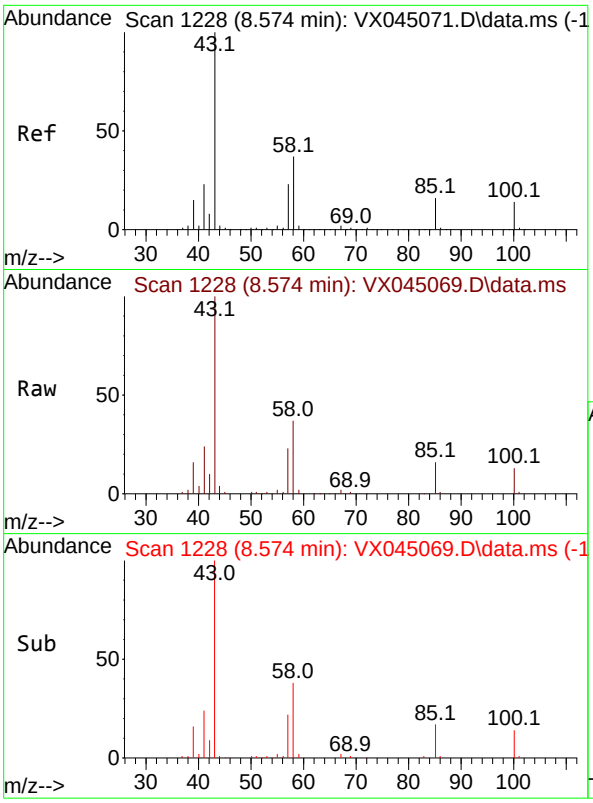


#50
Toluene-d8
Concen: 5.057 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 98 Resp: 24037

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0

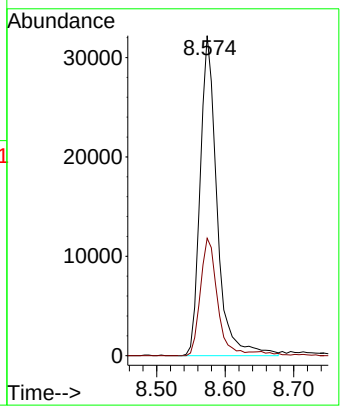




#51
4-Methyl-2-Pentanone
Concen: 27.303 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 5532

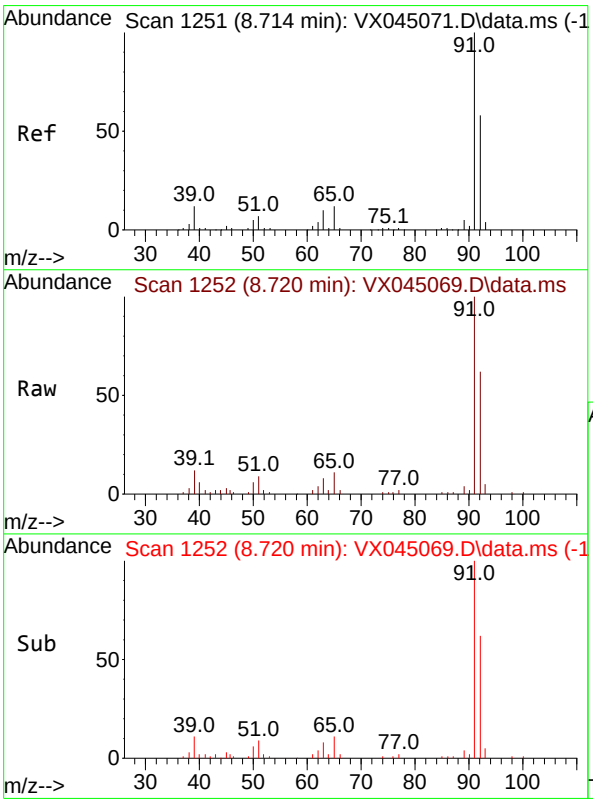
Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

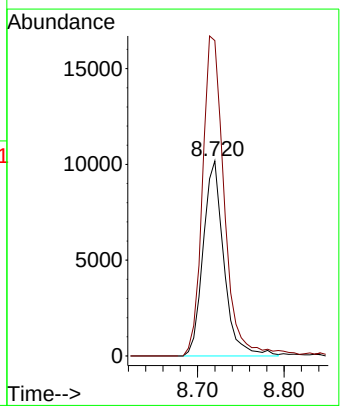
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

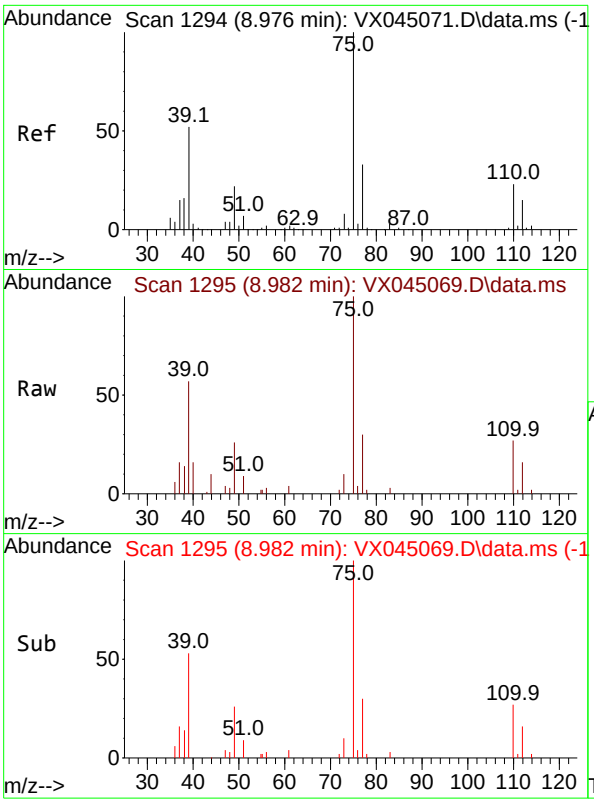


#52
Toluene
Concen: 4.997 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 92 Resp: 16933

Ion	Ratio	Lower	Upper
92	100		
91	172.6	138.9	208.3

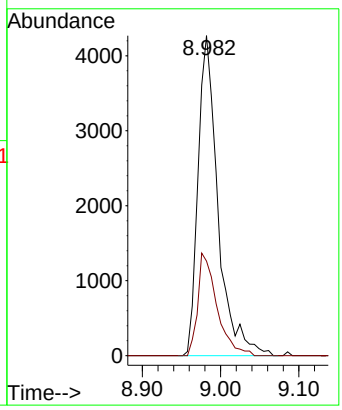




#53
t-1,3-Dichloropropene
Concen: 3.985 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 754

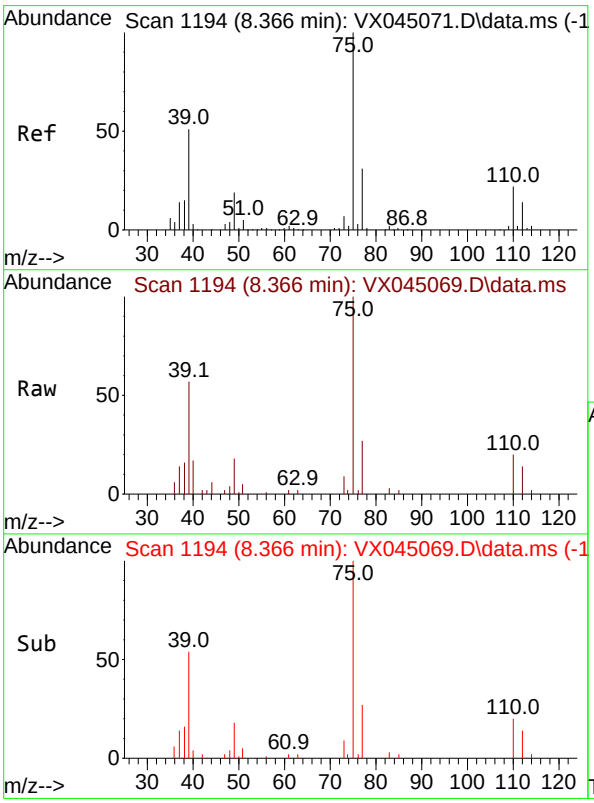
Ion	Ratio	Lower	Upper
75	100		
77	29.6	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

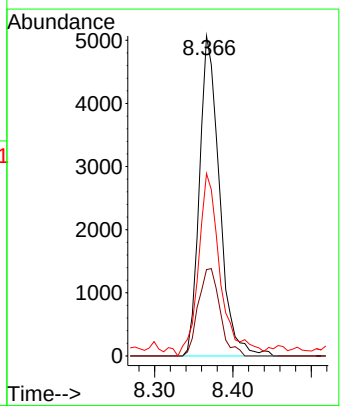
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

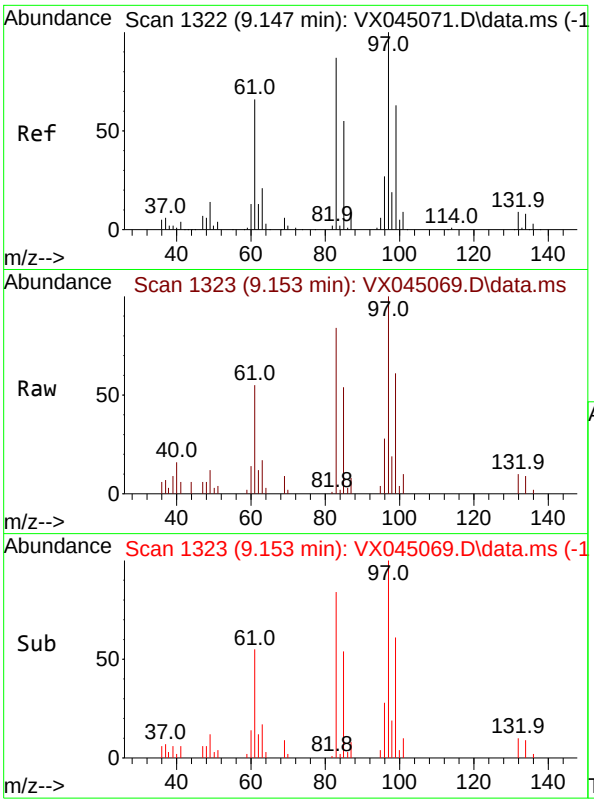


#54
cis-1,3-Dichloropropene
Concen: 4.244 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8988

Ion	Ratio	Lower	Upper
75	100		
77	27.0	24.7	37.1
39	57.0	40.7	61.1

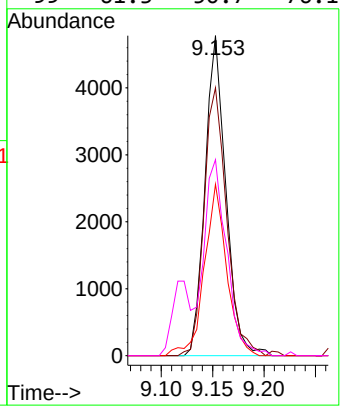




#55
1,1,2-Trichloroethane
Concen: 5.151 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 97 Resp: 675

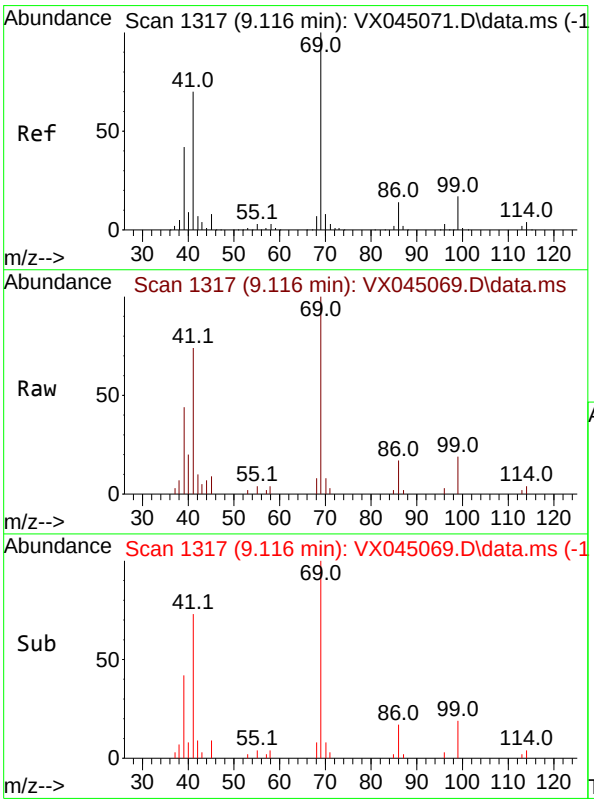
Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.4	104.2
85	53.6	44.1	66.1
99	61.3	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

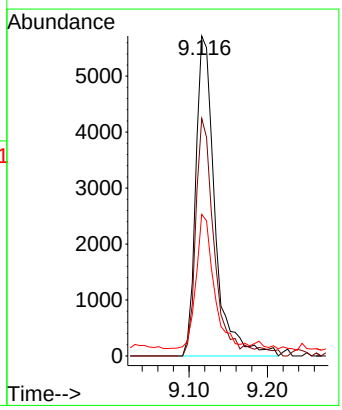
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

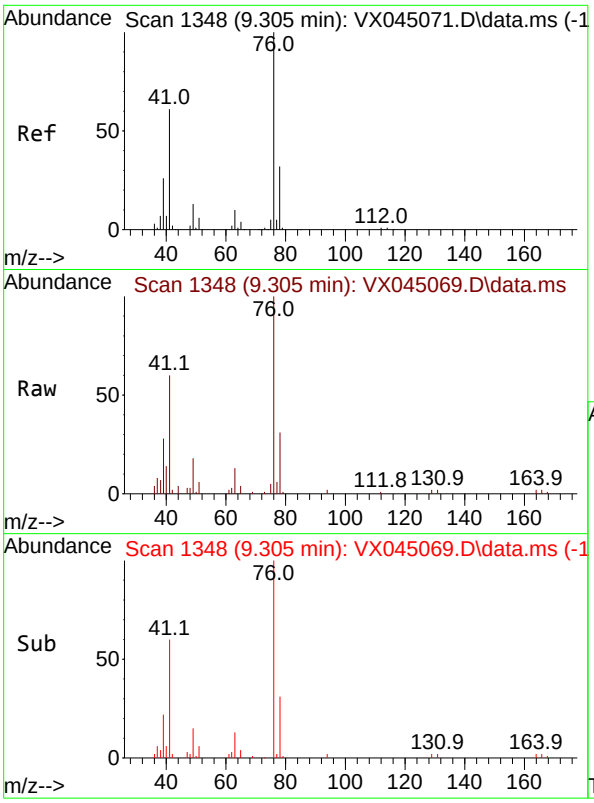


#56
Ethyl methacrylate
Concen: 4.628 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 69 Resp: 9712

Ion	Ratio	Lower	Upper
69	100		
41	71.0	57.0	85.4
39	39.2	34.2	51.4

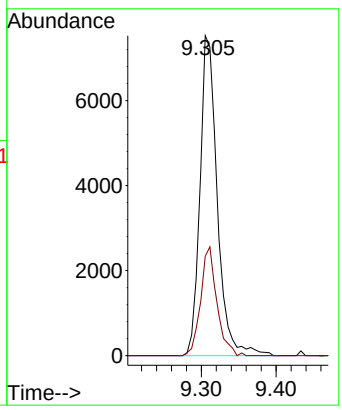




#57
1,3-Dichloropropane
Concen: 5.289 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 76 Resp: 1210

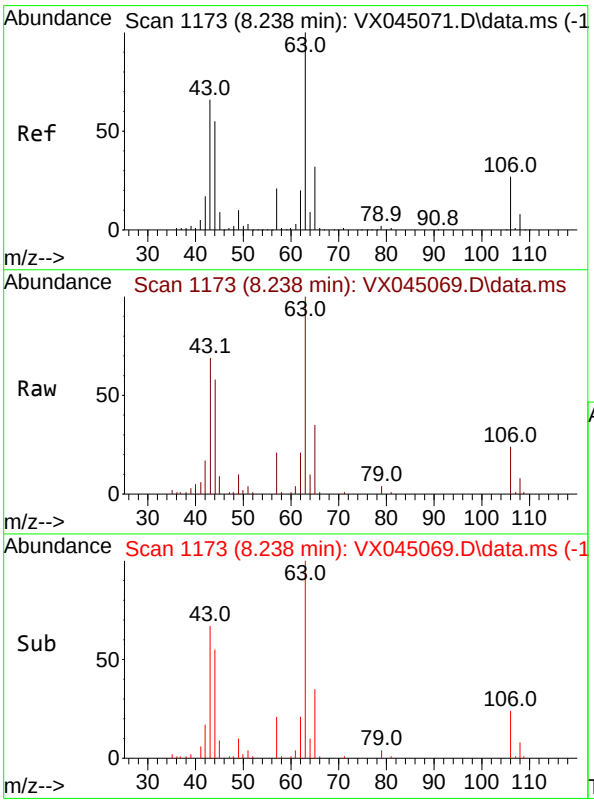
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

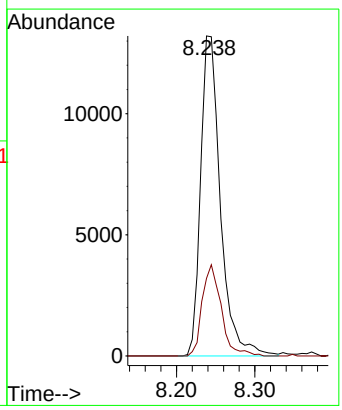
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

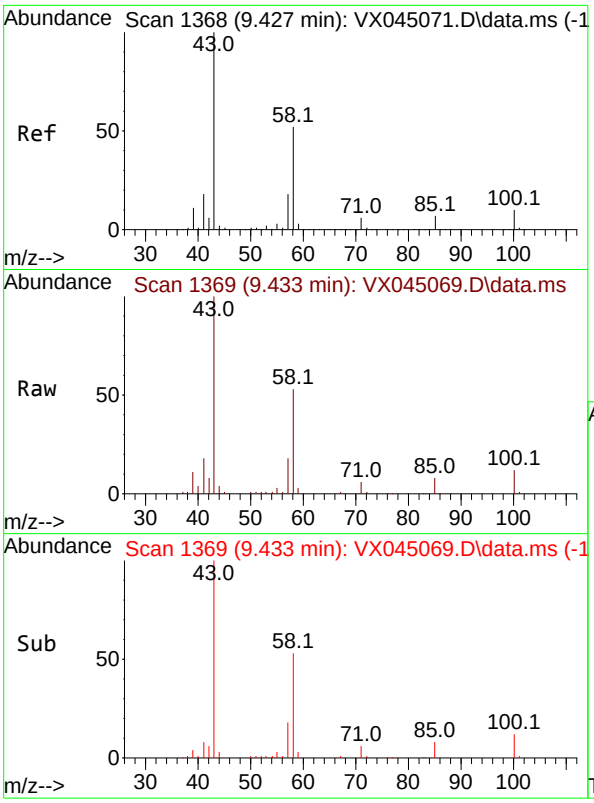


#58
2-Chloroethyl Vinyl ether
Concen: 22.527 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 23212

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.5	32.3





#59
2-Hexanone
Concen: 27.363 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

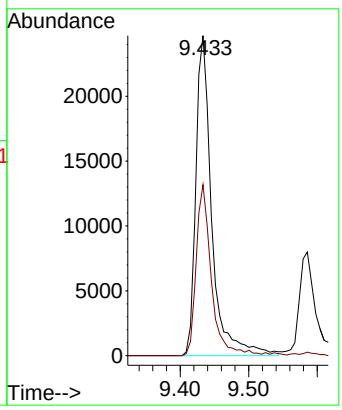
Tgt Ion: 43 Resp: 3999

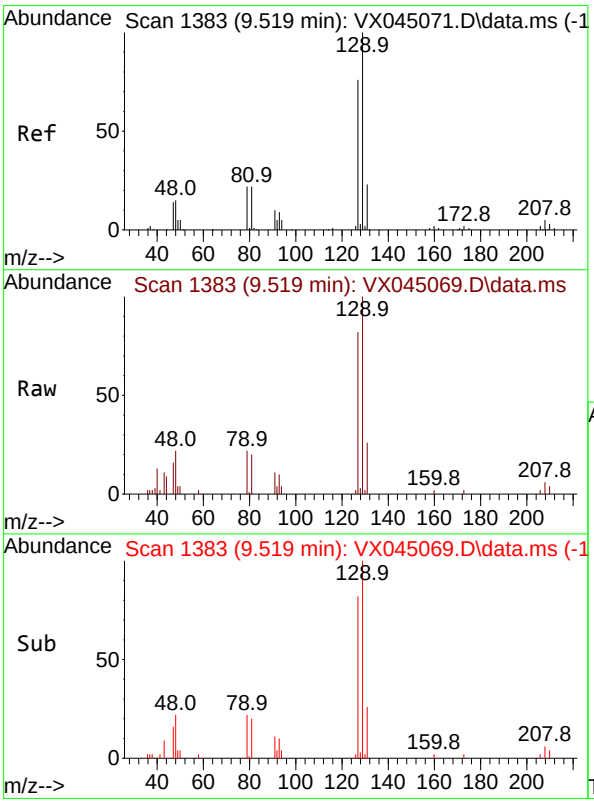
Ion	Ratio	Lower	Upper
43	100		
58	50.7	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

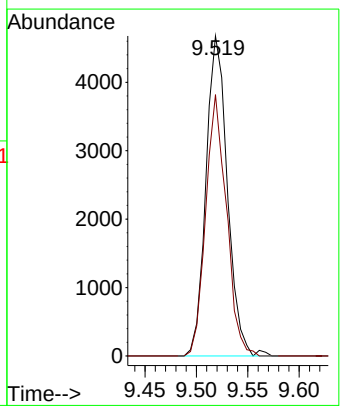


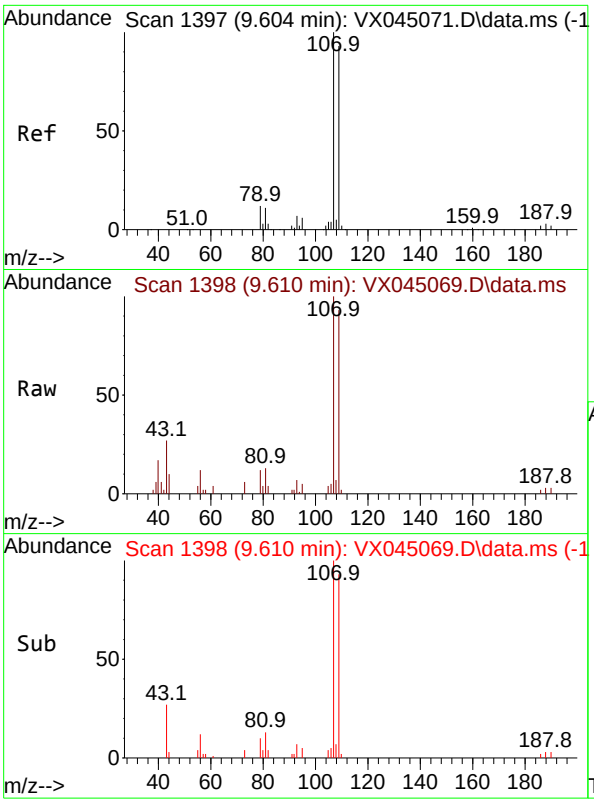


#60
Dibromochloromethane
Concen: 4.846 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:129 Resp: 6785

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5

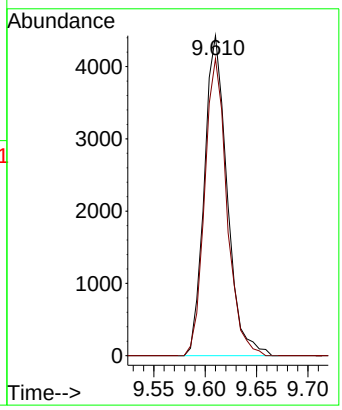




#61
1,2-Dibromoethane
Concen: 5.161 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:107 Resp: 683

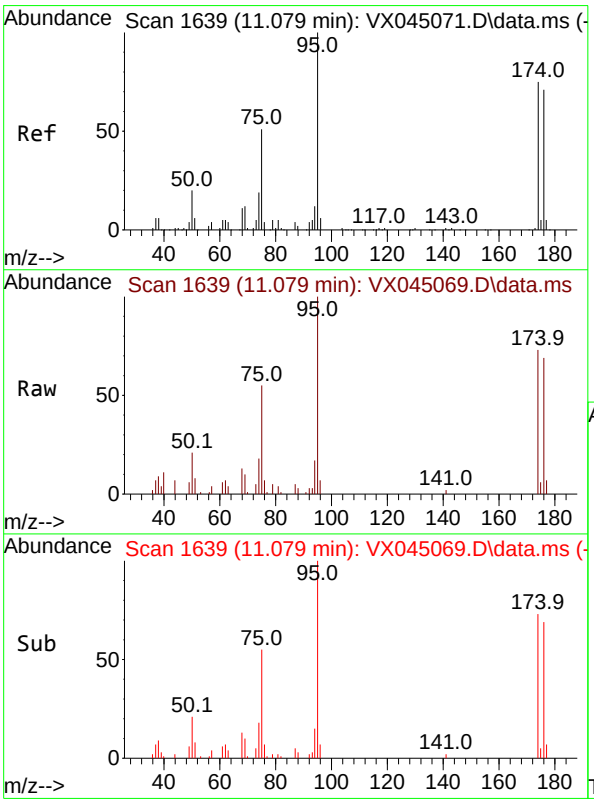
Ion	Ratio	Lower	Upper
107	100		
109	90.7	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

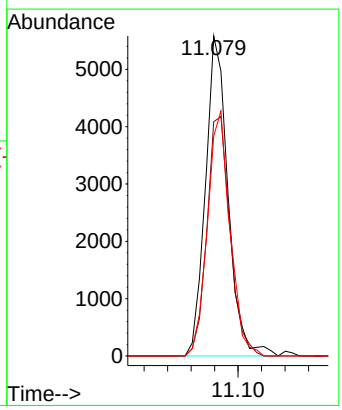
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

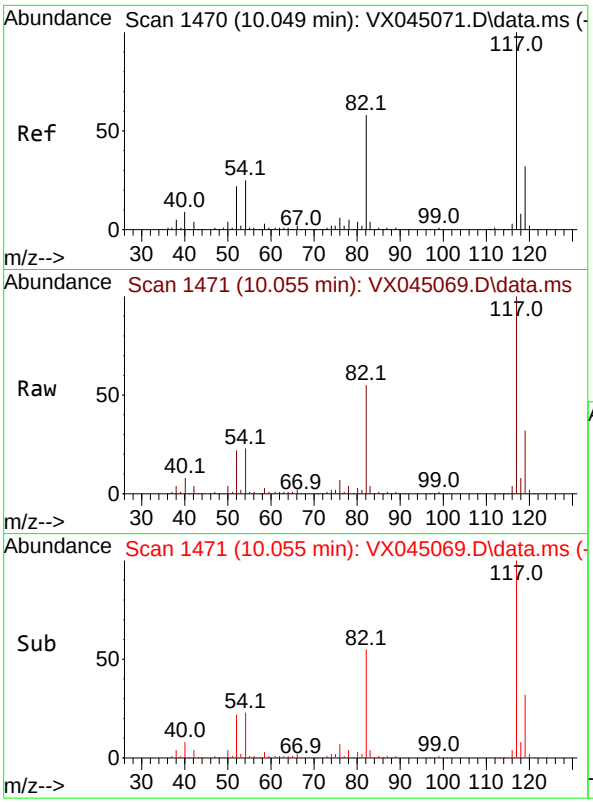


#62
4-Bromofluorobenzene
Concen: 4.685 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 95 Resp: 7436

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	148.2
176	76.3	0.0	141.4

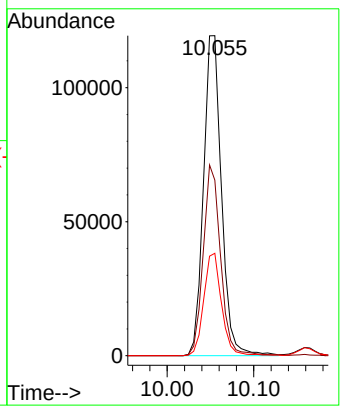




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 17236

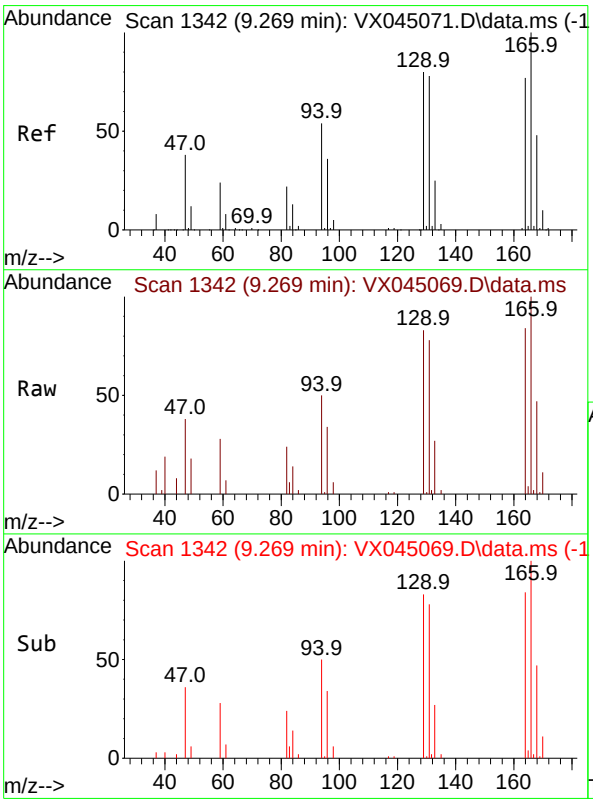
Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.3	69.5
119	32.0	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

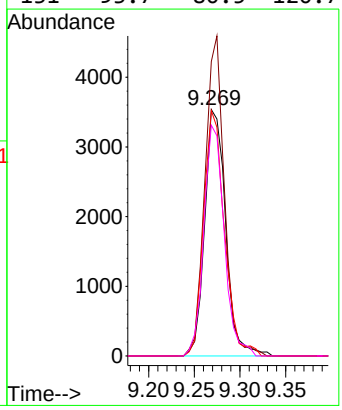
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

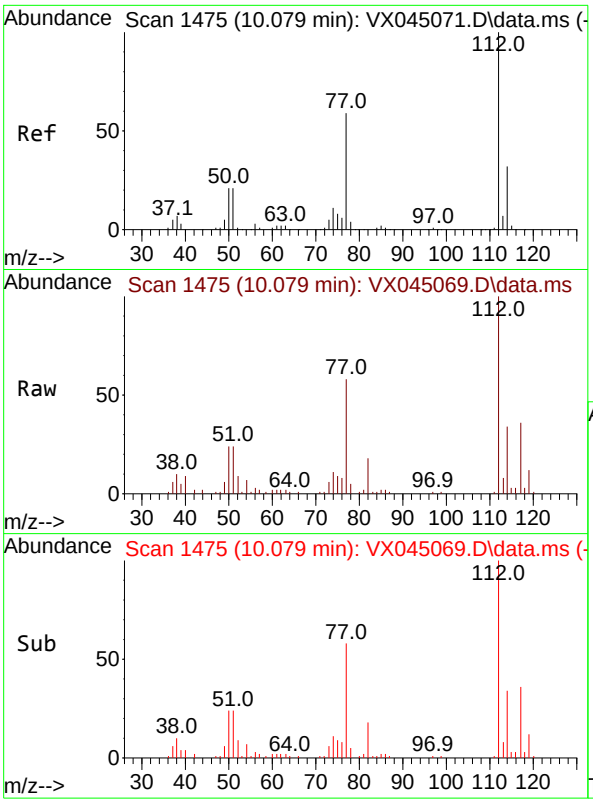


#64
Tetrachloroethene
Concen: 5.128 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:164 Resp: 5615

Ion	Ratio	Lower	Upper
164	100		
166	119.5	103.6	155.4
129	99.7	82.7	124.1
131	93.7	80.5	120.7

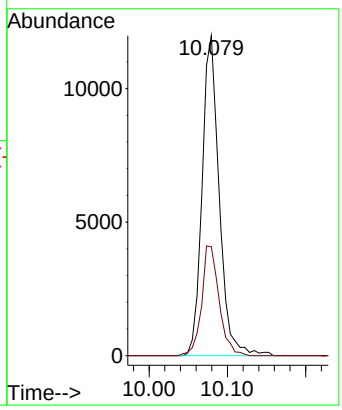




#65
Chlorobenzene
Concen: 4.908 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:112 Resp: 1816

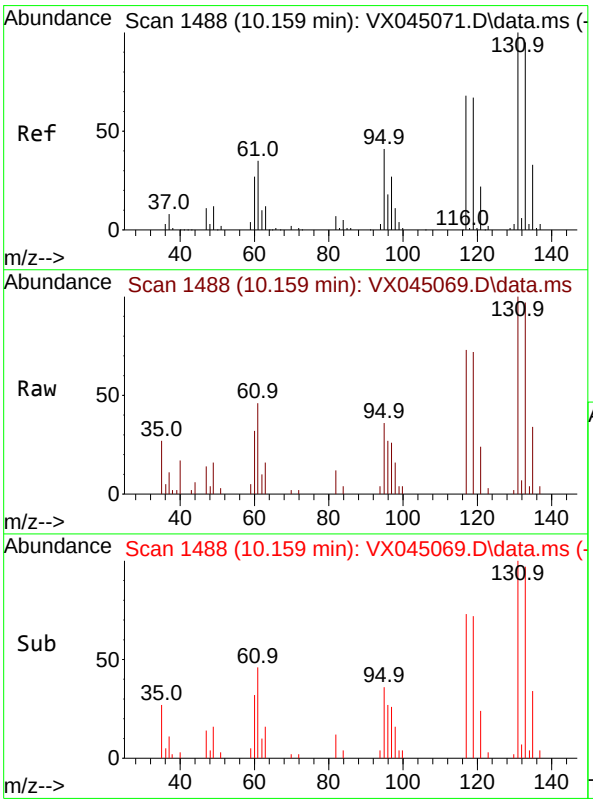
Ion	Ratio	Lower	Upper
112	100		
114	34.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

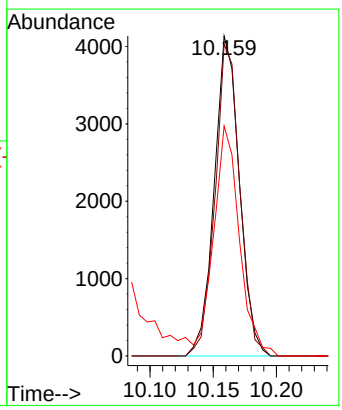
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

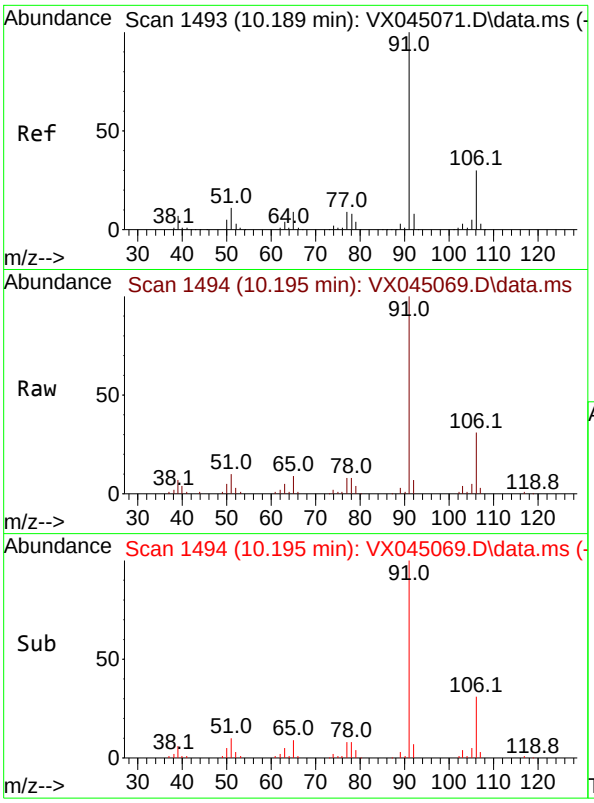


#66
1,1,1,2-Tetrachloroethane
Concen: 4.781 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:131 Resp: 5702

Ion	Ratio	Lower	Upper
131	100		
133	96.1	48.6	145.9
119	73.4	33.9	101.7

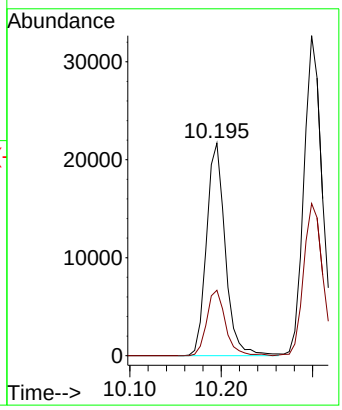




#67
Ethyl Benzene
Concen: 4.725 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 3091

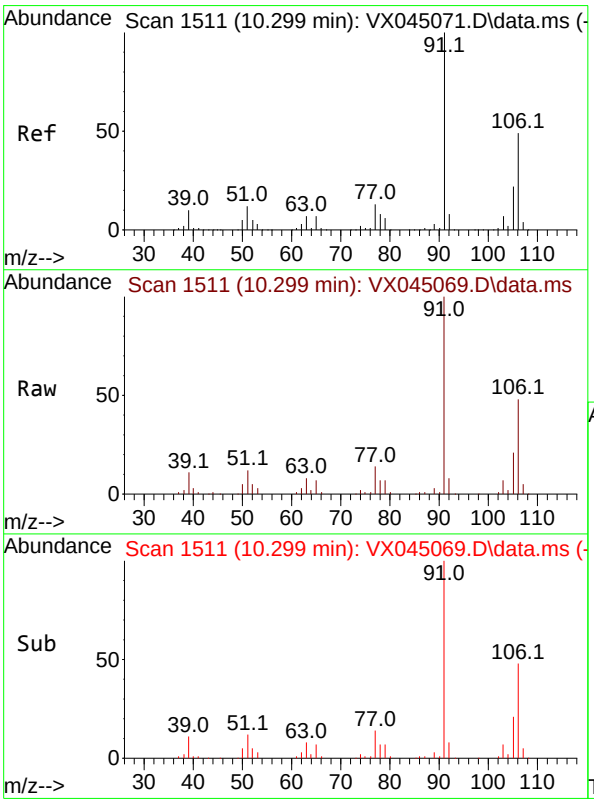
Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

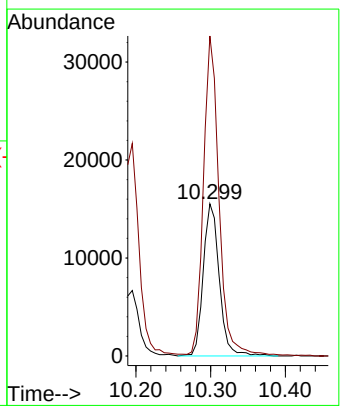
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

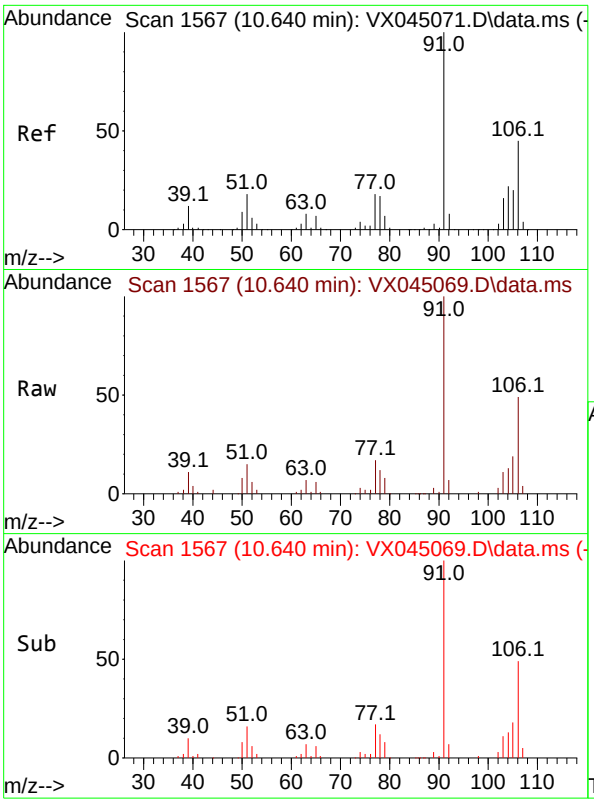


#68
m/p-Xylenes
Concen: 9.608 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:106 Resp: 23152

Ion	Ratio	Lower	Upper
106	100		
91	202.7	165.4	248.0

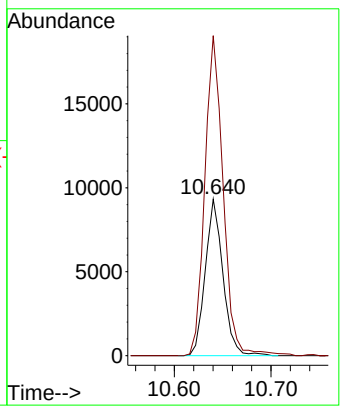




#69
o-Xylene
Concen: 4.914 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:106 Resp: 1188

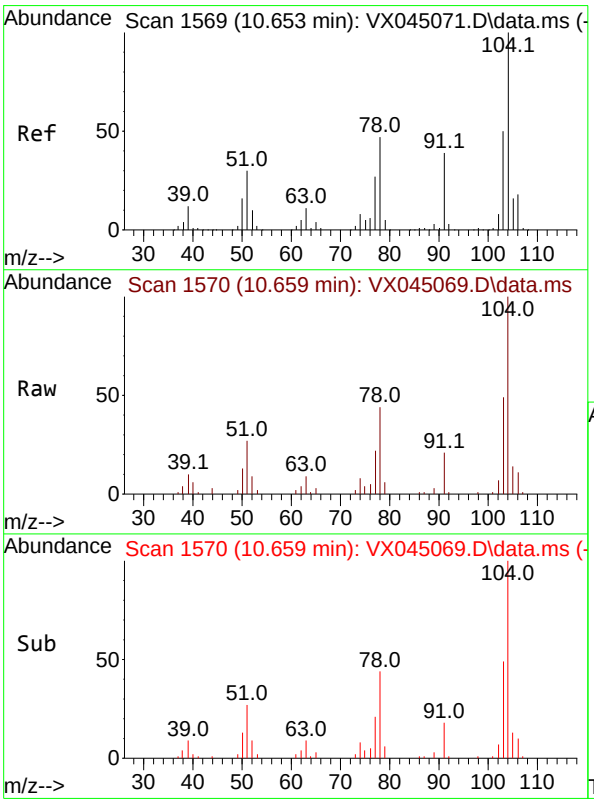
Ion	Ratio	Lower	Upper
106	100		
91	211.7	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

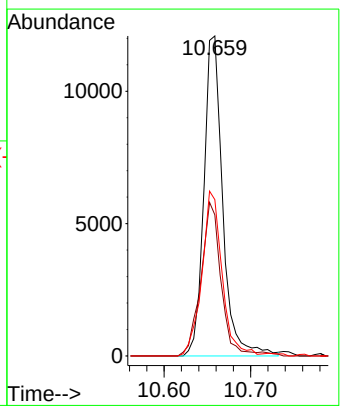
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

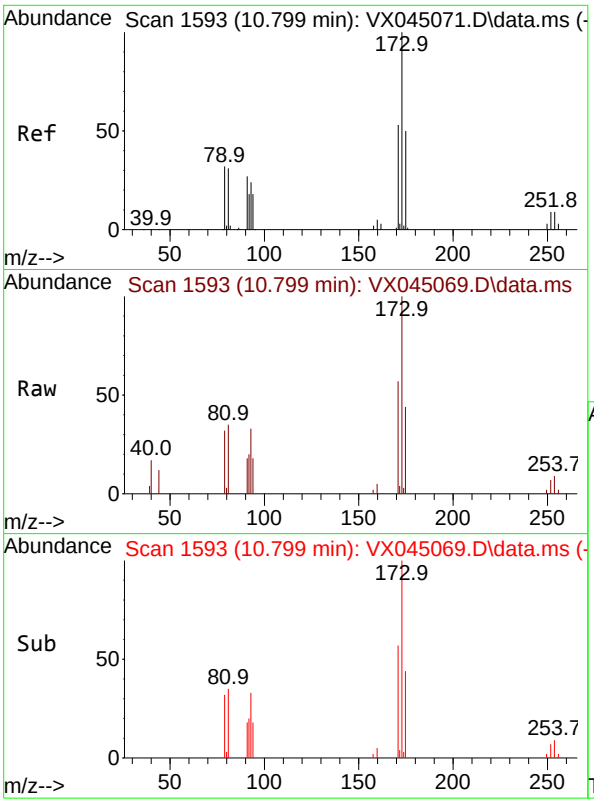


#70
Styrene
Concen: 4.704 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:104 Resp: 18278

Ion	Ratio	Lower	Upper
104	100		
78	51.7	42.2	63.4
103	55.3	43.8	65.8

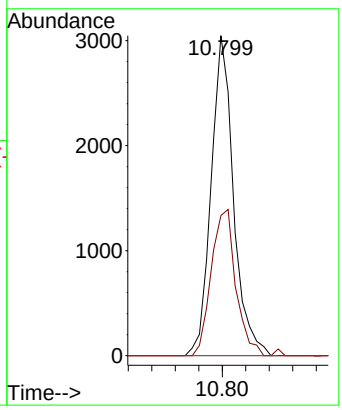




#71
Bromoform
Concen: 4.541 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:173 Resp: 402

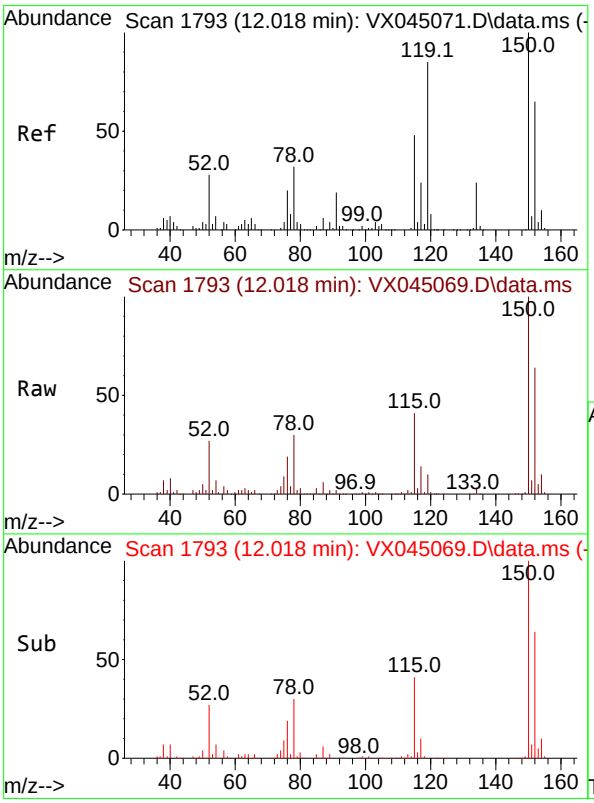
Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

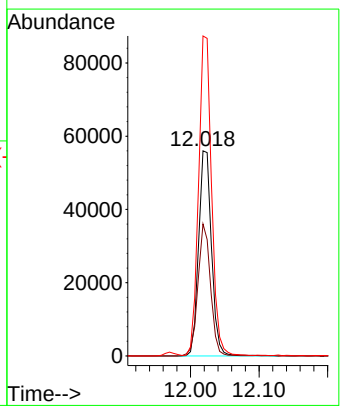
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

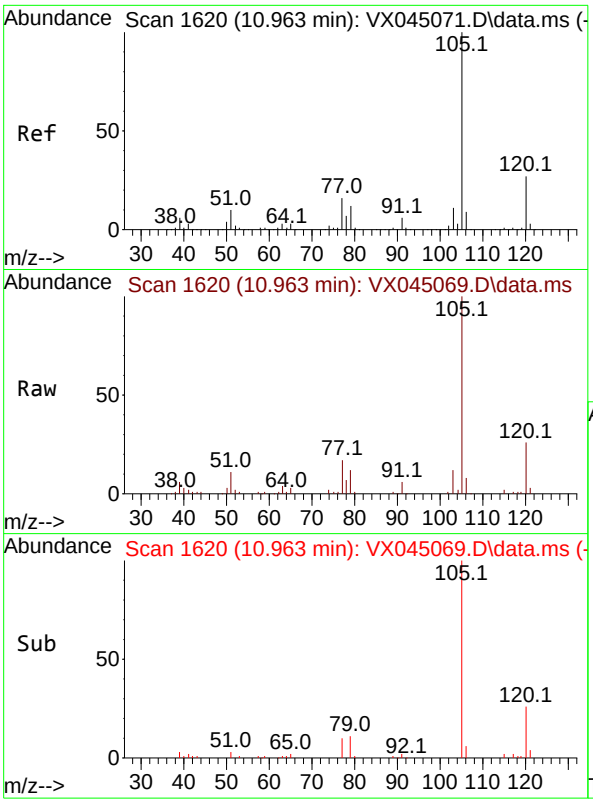


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:152 Resp: 73591

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.2	132.6
150	156.2	0.0	349.0

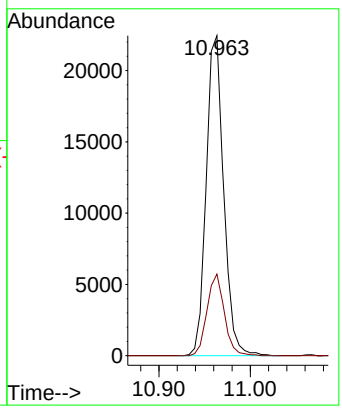




#73
Isopropylbenzene
Concen: 4.991 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 2968

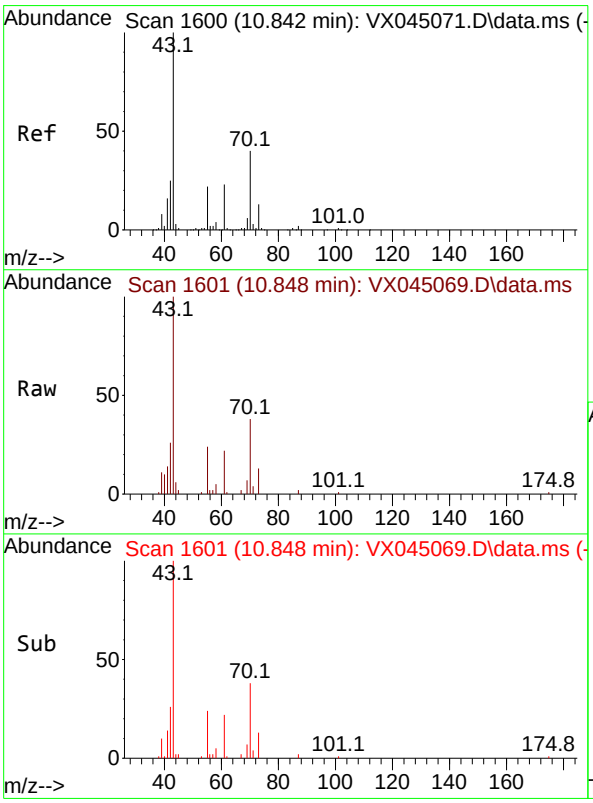
Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

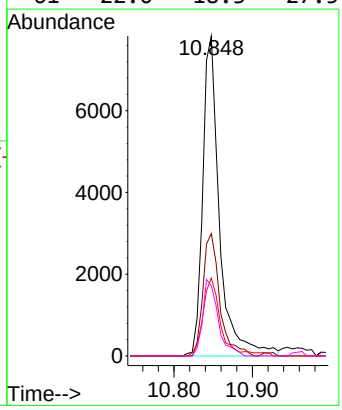
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

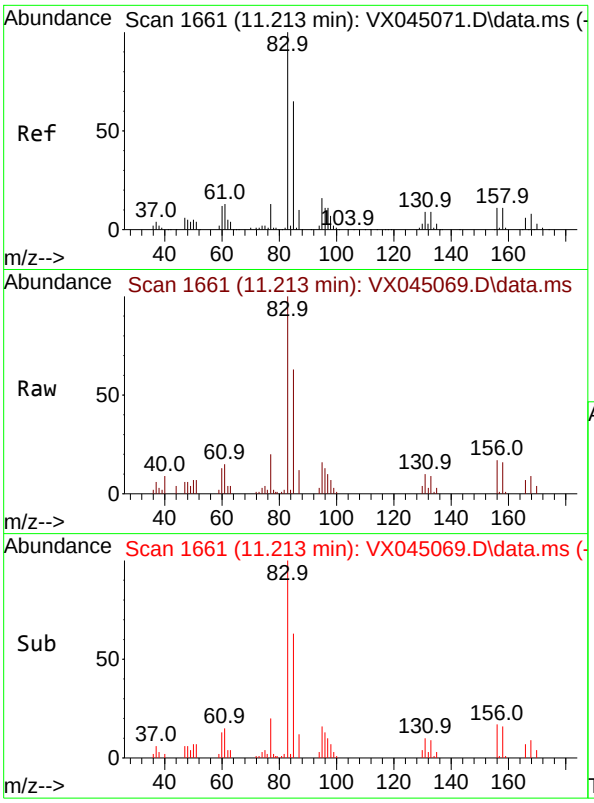


#74
N-amyl acetate
Concen: 4.300 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 11609

Ion	Ratio	Lower	Upper
43	100		
70	38.1	31.8	47.6
55	25.9	18.3	27.5
61	22.0	18.3	27.5

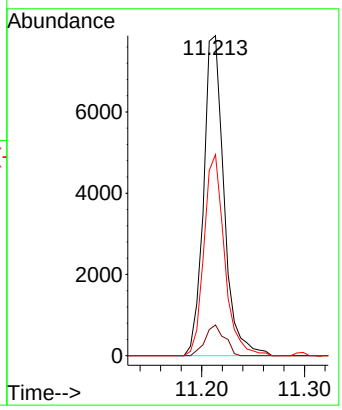




#75
1,1,2,2-Tetrachloroethane
Concen: 5.310 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 1088

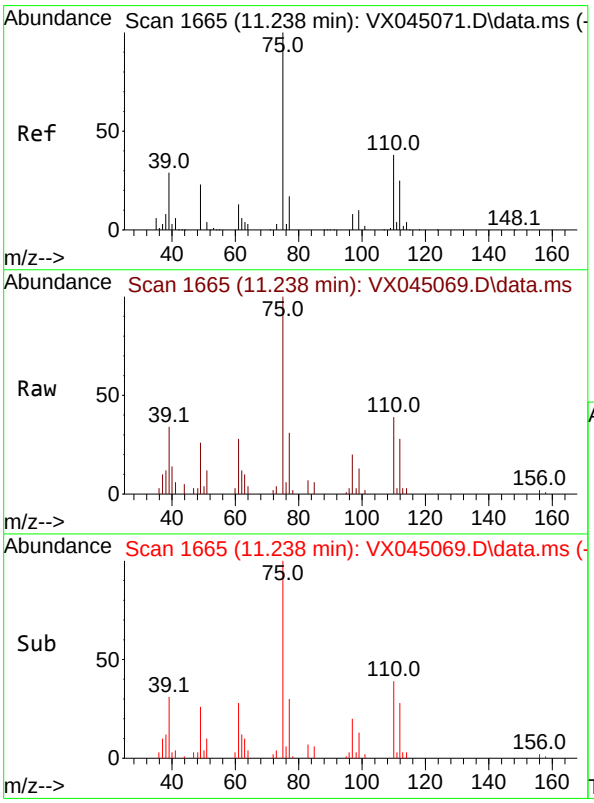
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	63.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

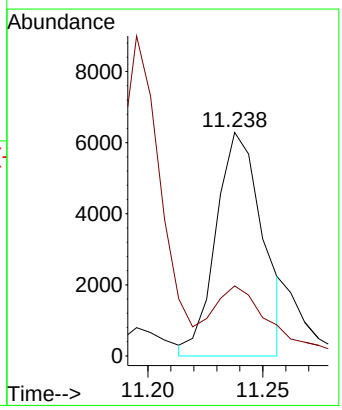
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

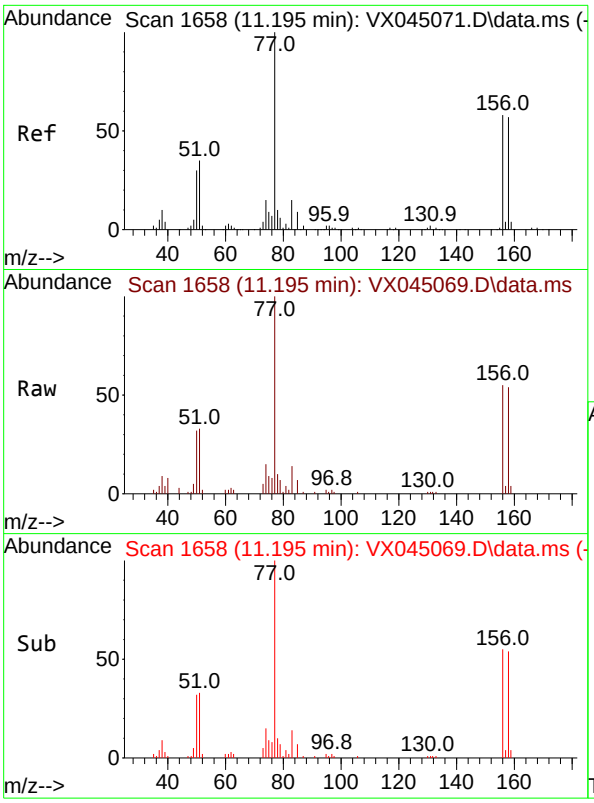


#76
1,2,3-Trichloropropane
Concen: 5.384 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8839

Ion	Ratio	Lower	Upper
75	100		
77	39.8	20.7	62.1

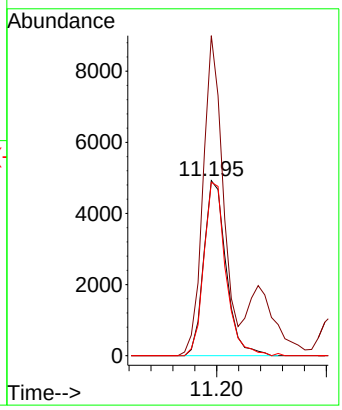




#77
Bromobenzene
Concen: 5.163 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:156 Resp: 697

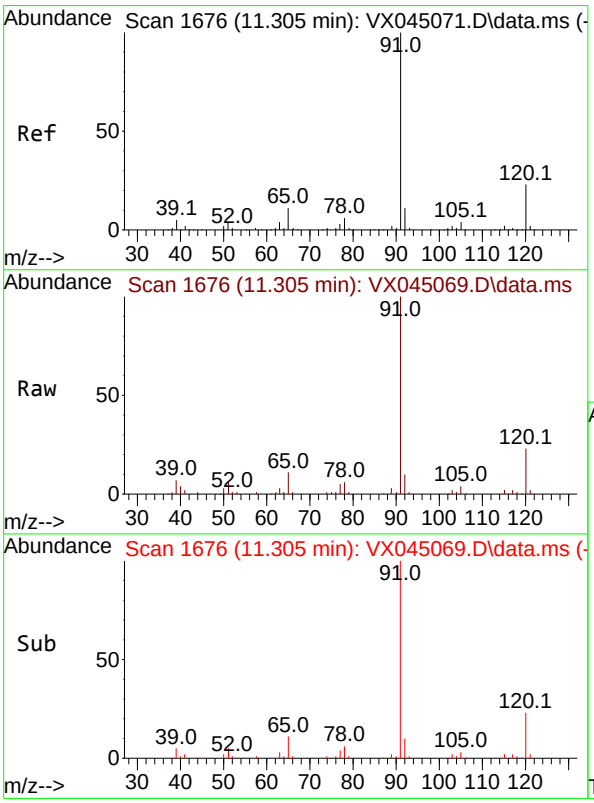
Ion	Ratio	Lower	Upper
156	100		
77	163.3	85.8	257.4
158	97.8	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

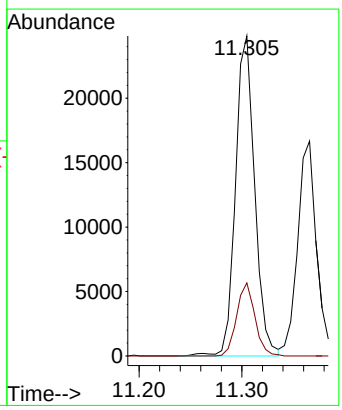
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

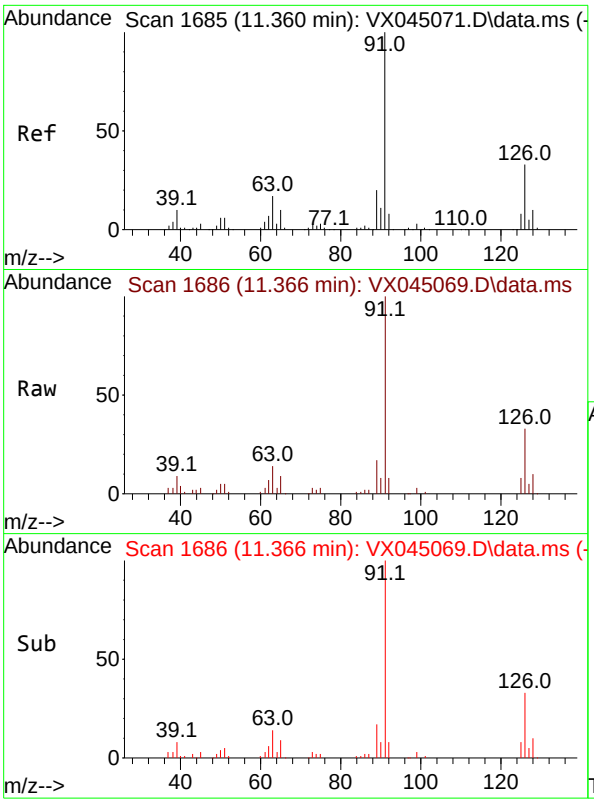


#78
n-propylbenzene
Concen: 4.694 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 32196

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.2	33.6

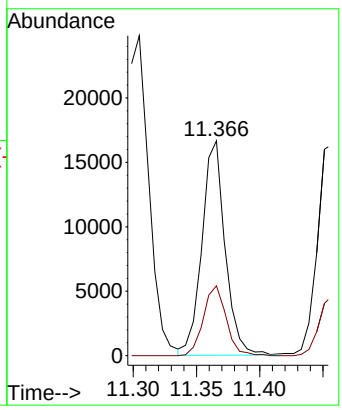




#79
2-Chlorotoluene
Concen: 5.048 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 2125

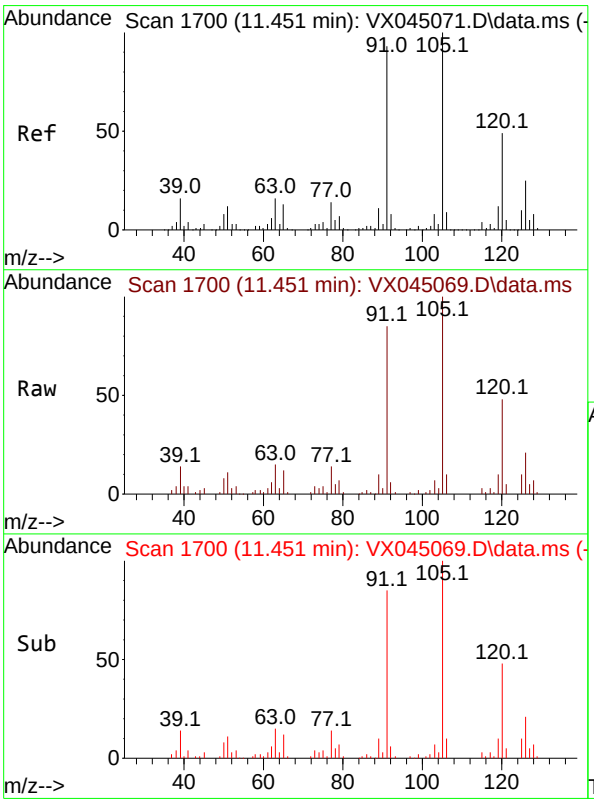
Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

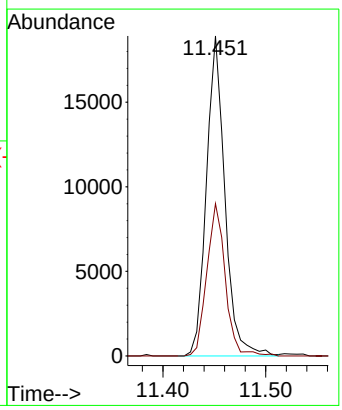
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

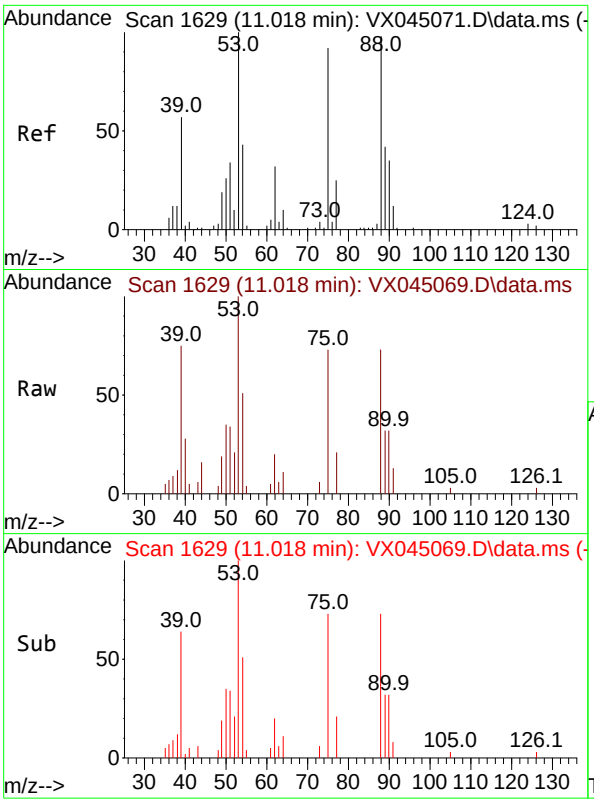


#80
1,3,5-Trimethylbenzene
Concen: 4.897 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 23627

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 3.256 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

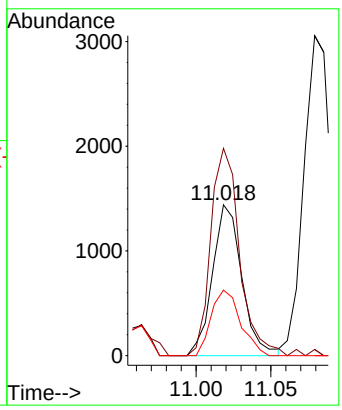
Tgt Ion: 75 Resp: 197

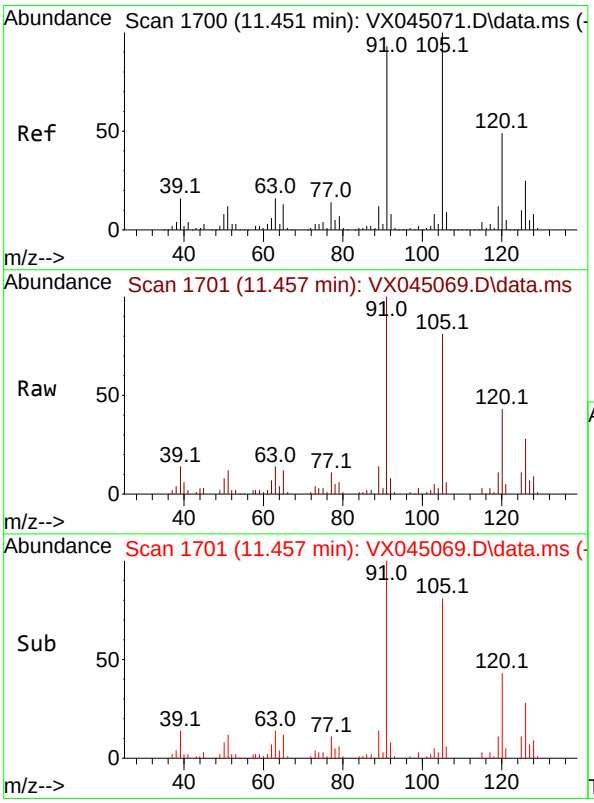
Ion	Ratio	Lower	Upper
75	100		
53	134.1	88.5	132.7#
89	43.4	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

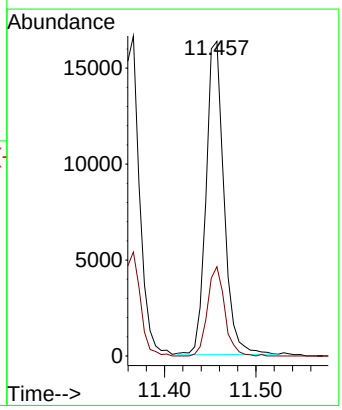


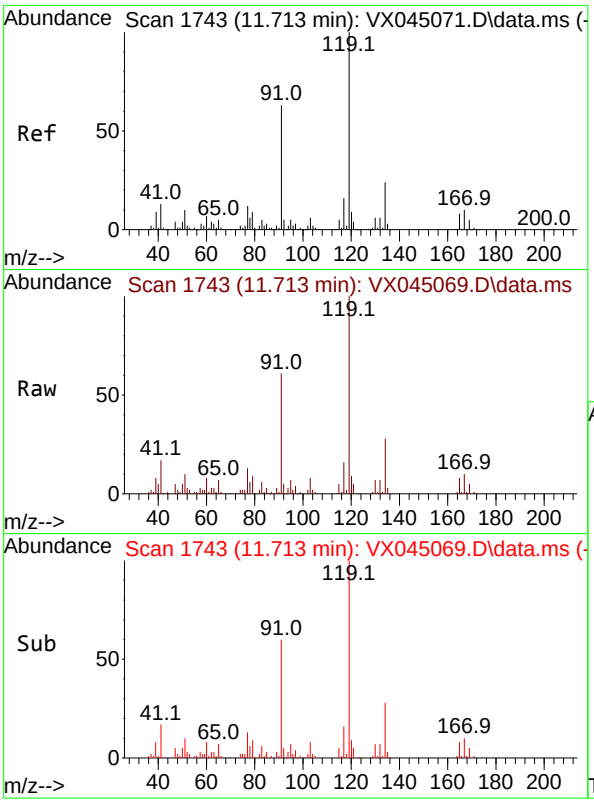


#82
4-Chlorotoluene
Concen: 4.761 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 22190

Ion	Ratio	Lower	Upper
91	100		
126	27.3	14.1	42.4

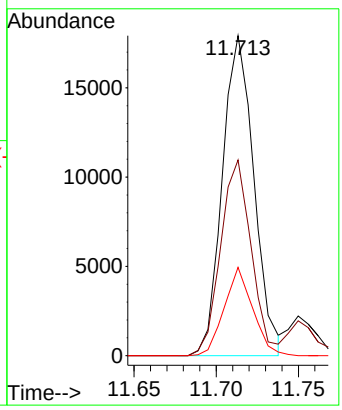




#83
tert-Butylbenzene
Concen: 4.910 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:119 Resp: 2396

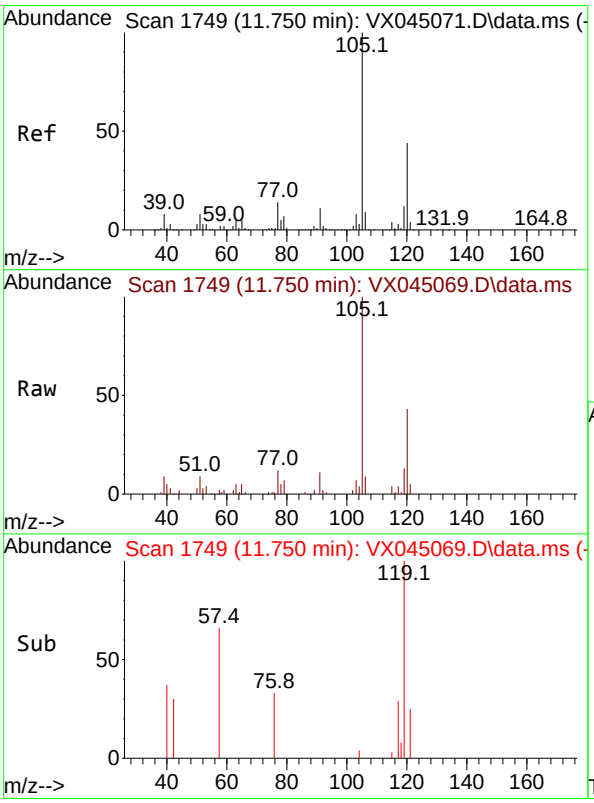
Ion	Ratio	Lower	Upper
119	100		
91	59.5	30.7	92.1
134	24.9	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

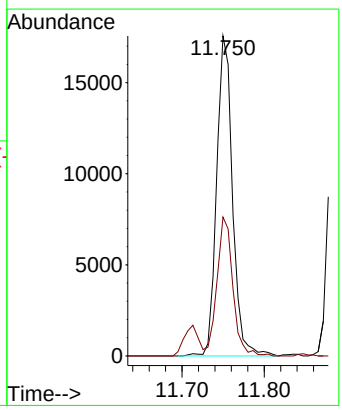
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

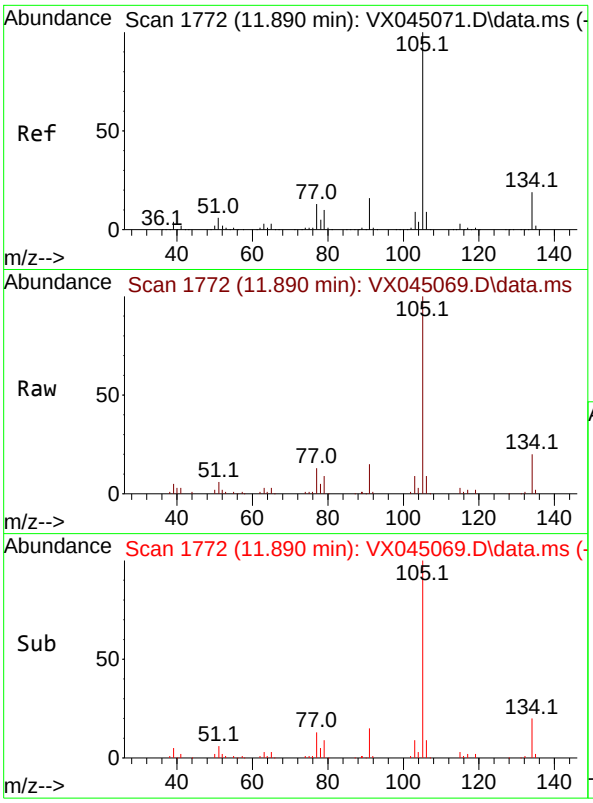


#84
1,2,4-Trimethylbenzene
Concen: 4.960 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 23561

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1





#85
sec-Butylbenzene
Concen: 4.687 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

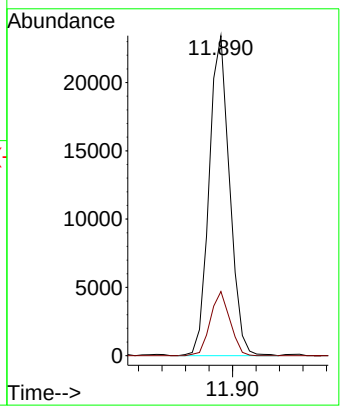
Tgt Ion:105 Resp: 2831

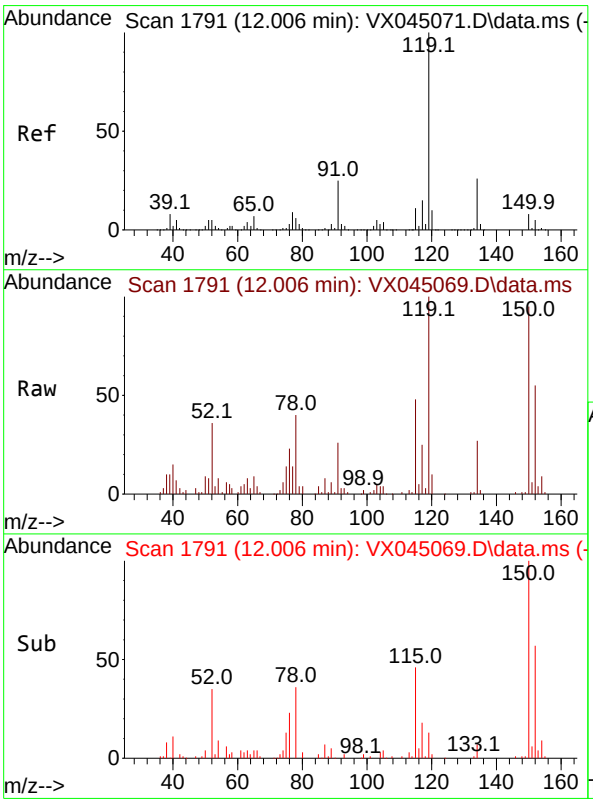
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

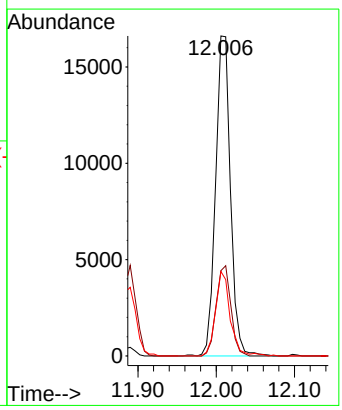


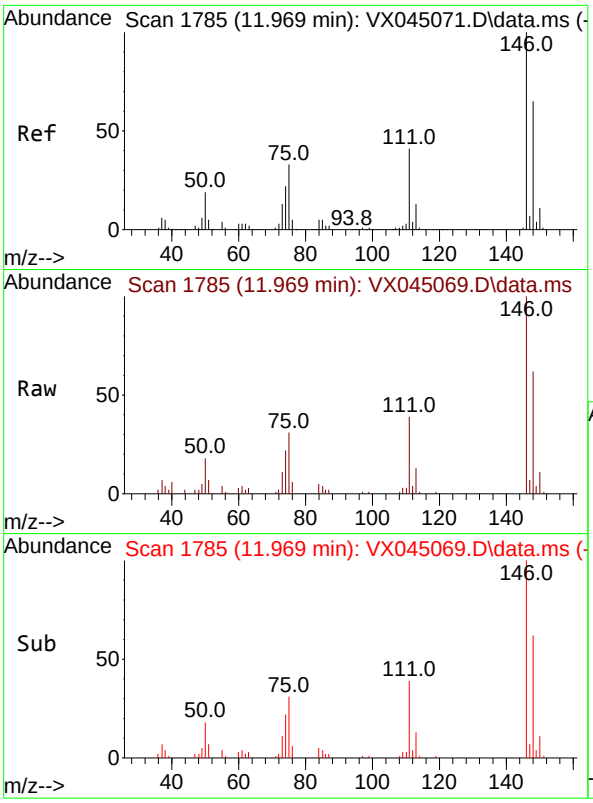


#86
p-Isopropyltoluene
Concen: 4.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:119 Resp: 21977

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.9	38.6
91	26.1	12.7	38.0

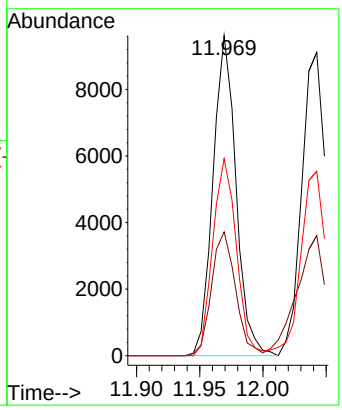




#87
1,3-Dichlorobenzene
Concen: 4.926 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:146 Resp: 1215

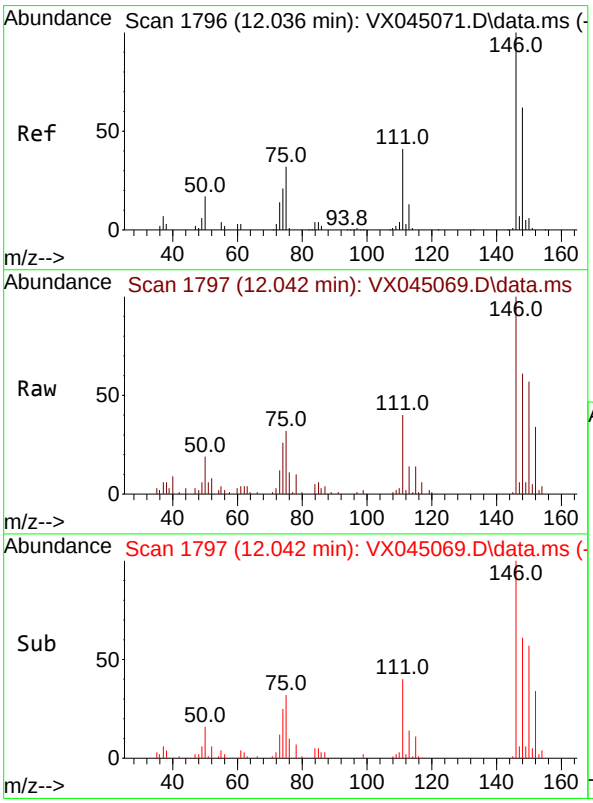
Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.1	63.4
148	62.9	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

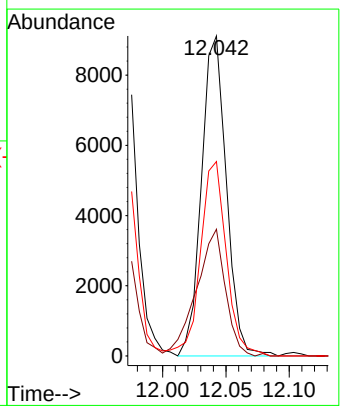
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

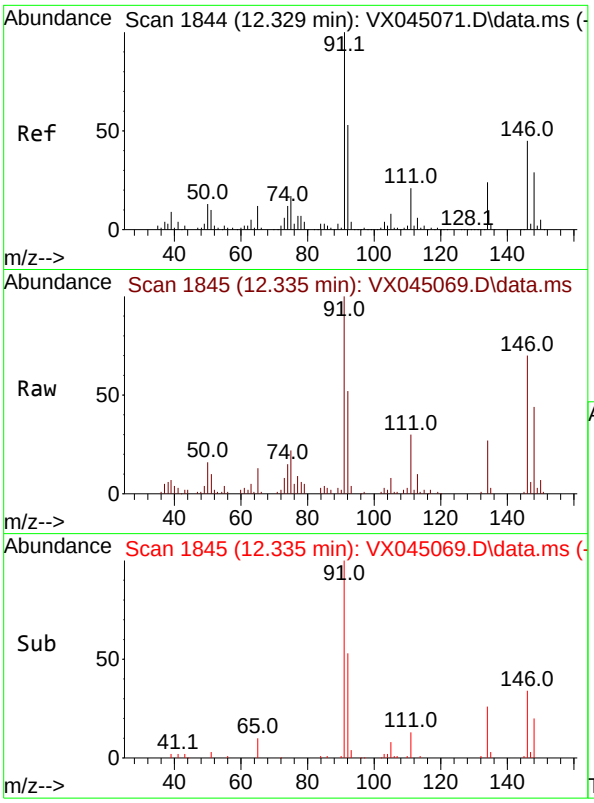


#88
1,4-Dichlorobenzene
Concen: 5.014 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:146 Resp: 12526

Ion	Ratio	Lower	Upper
146	100		
111	46.2	20.2	60.5
148	63.5	31.9	95.9

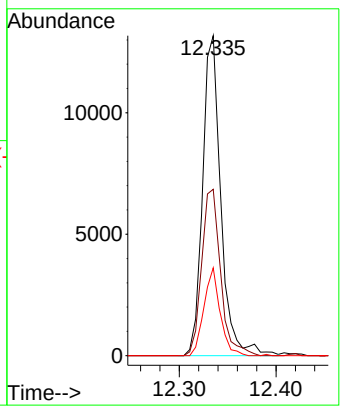




#89
n-Butylbenzene
Concen: 4.072 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 1735

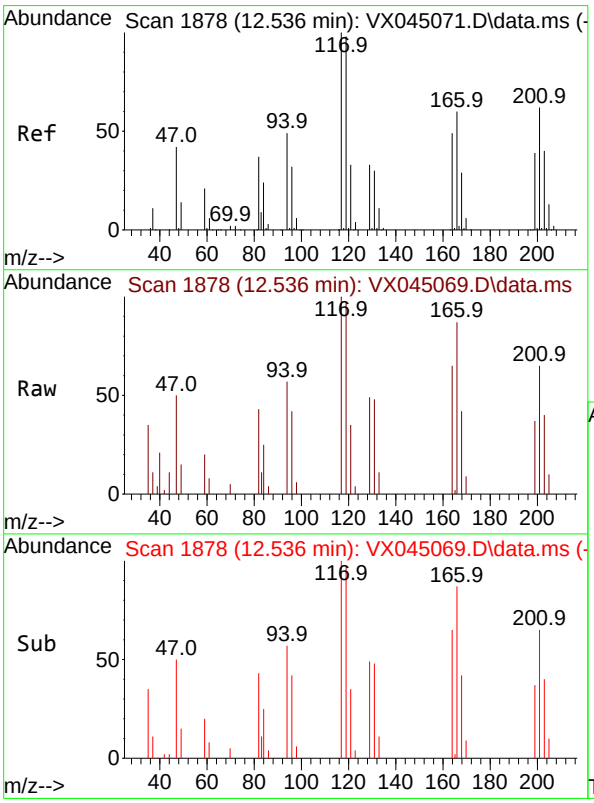
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	24.4	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

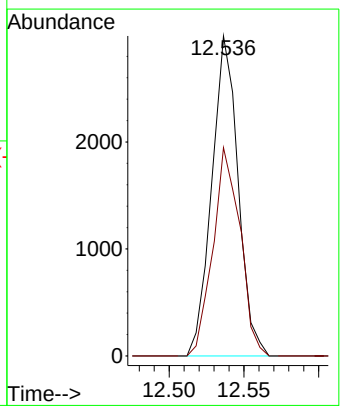
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

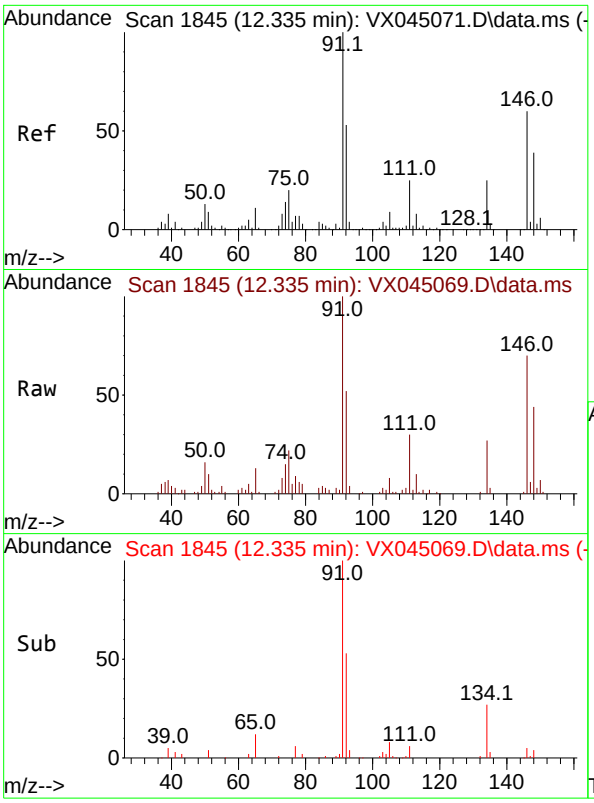


#90
Hexachloroethane
Concen: 4.052 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 3665

Ion	Ratio	Lower	Upper
117	100		
201	67.1	31.9	95.9

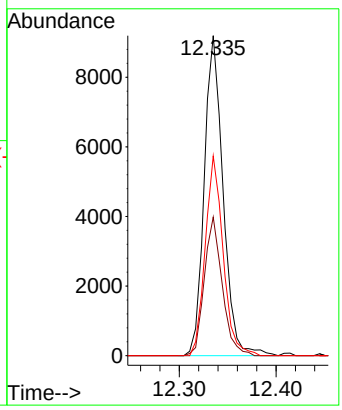




#91
1,2-Dichlorobenzene
Concen: 5.138 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:146 Resp: 1247

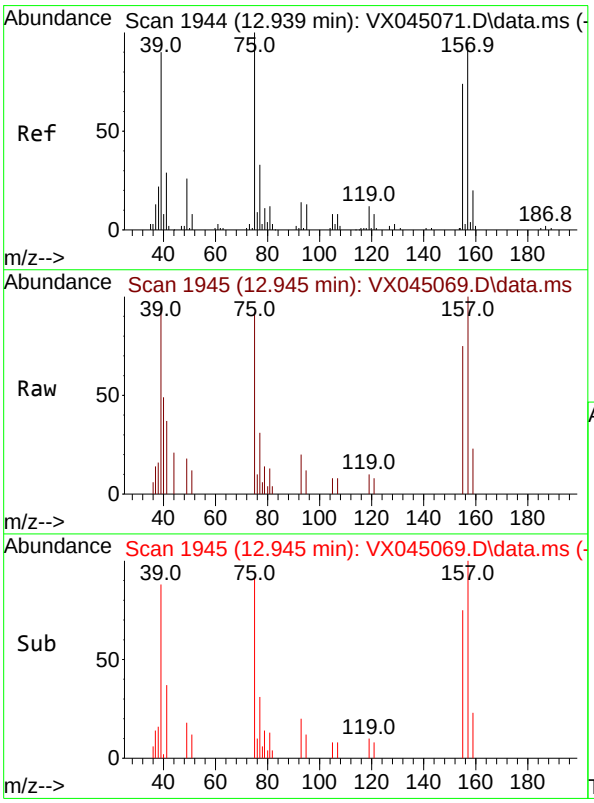
Ion	Ratio	Lower	Upper
146	100		
111	41.2	21.6	65.0
148	59.4	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

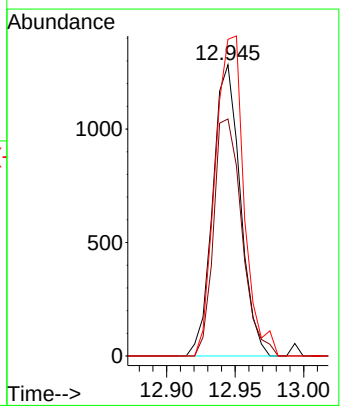
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

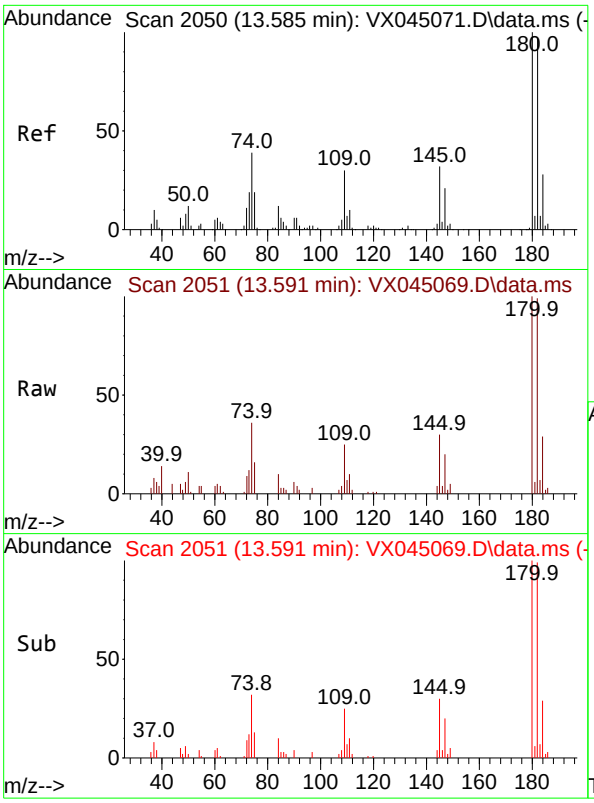


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.712 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 1787

Ion	Ratio	Lower	Upper
75	100		
155	83.8	39.6	118.7
157	115.4	51.1	153.4

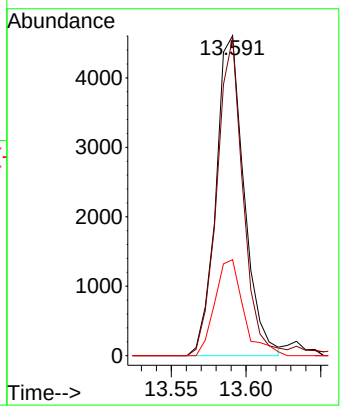




#93
1,2,4-Trichlorobenzene
Concen: 4.114 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:180 Resp: 604

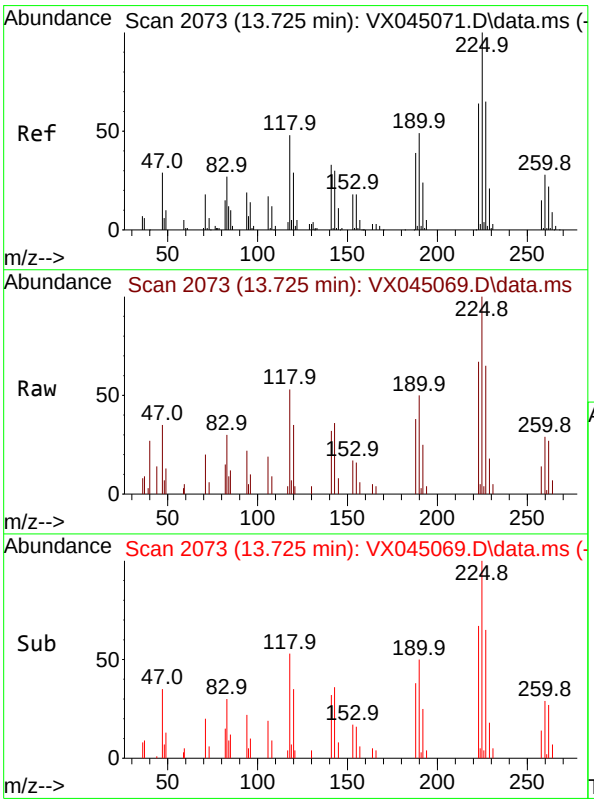
Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.9
145	30.6	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

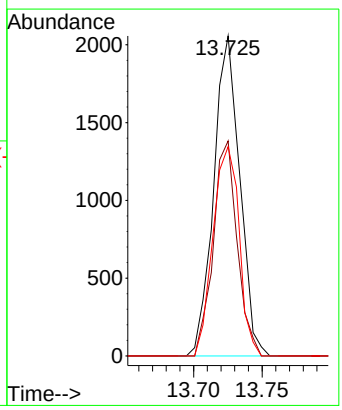
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

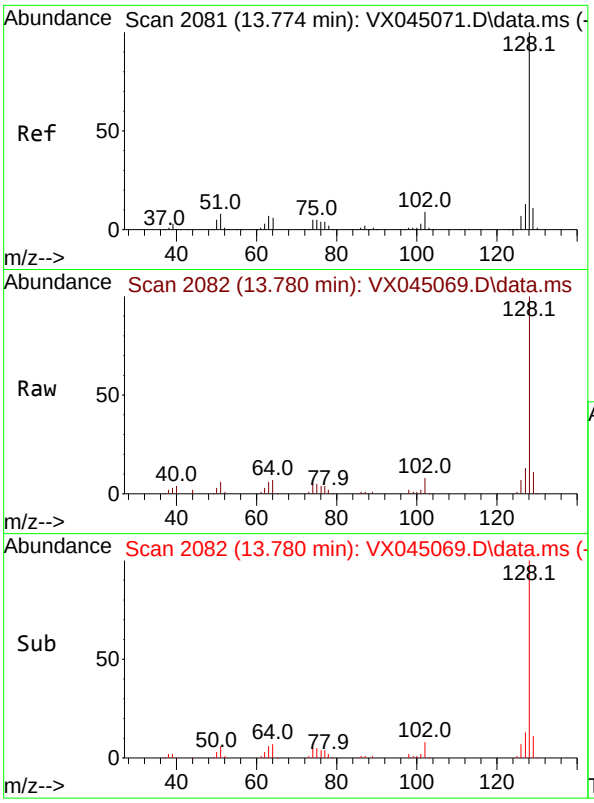


#94
Hexachlorobutadiene
Concen: 4.640 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:225 Resp: 2716

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.9	95.7
227	65.5	31.4	94.0

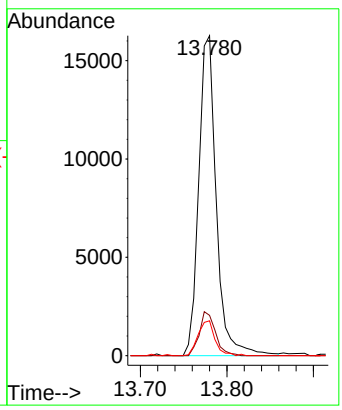




#95
Naphthalene
Concen: 4.287 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:128 Resp: 2292

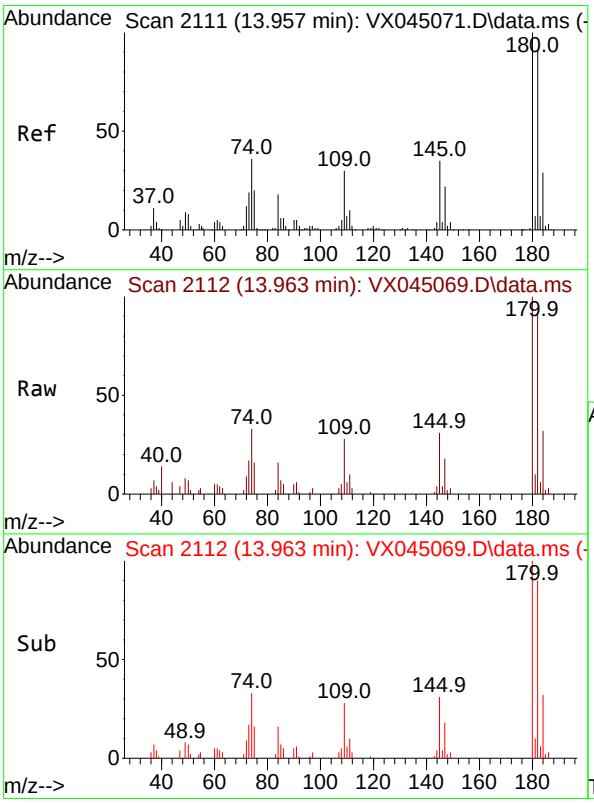
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.6	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

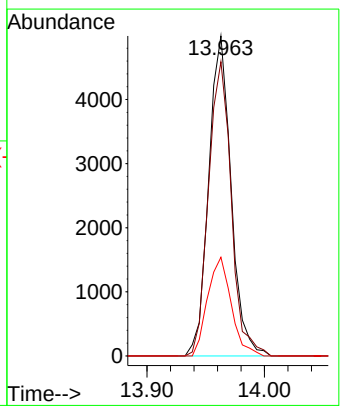
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.437 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:180 Resp: 6600

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.5	142.6
145	32.6	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	97338	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177403	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	70072	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	30514	21.221	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.440%#		
35) Dibromofluoromethane	5.385	113	23739	20.473	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.940%#		
50) Toluene-d8	8.646	98	84516	19.469	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	38.940%#		
62) 4-Bromofluorobenzene	11.079	95	27856	19.215	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.420%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25155	18.750	ug/l	95
3) Chloromethane	1.306	50	32219	19.736	ug/l	99
4) Vinyl Chloride	1.373	62	30134	18.899	ug/l	97
5) Bromomethane	1.593	94	11584	23.239	ug/l	99
6) Chloroethane	1.660	64	14237	23.457	ug/l	99
7) Trichlorofluoromethane	1.867	101	40880	20.015	ug/l	99
8) Diethyl Ether	2.135	74	15911	21.437	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	23154	18.984	ug/l	98
10) Methyl Iodide	2.440	142	29500	18.867	ug/l	100
11) Tert butyl alcohol	2.983	59	31246	118.627	ug/l	98
12) 1,1-Dichloroethene	2.306	96	23810	19.014	ug/l	97
13) Acrolein	2.239	56	33586	117.747	ug/l	99
14) Allyl chloride	2.654	41	42993	19.096	ug/l	100
15) Acrylonitrile	3.068	53	84182	117.598	ug/l	100
16) Acetone	2.385	43	74701	126.257	ug/l	99
17) Carbon Disulfide	2.501	76	61802	18.139	ug/l	99
18) Methyl Acetate	2.709	43	35157	19.729	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	82833	20.689	ug/l	96
20) Methylene Chloride	2.782	84	29281	20.895	ug/l	94
21) trans-1,2-Dichloroethene	3.080	96	23471	19.057	ug/l	97
22) Diisopropyl ether	3.763	45	90378	20.995	ug/l	93
23) Vinyl Acetate	3.721	43	381808	108.038	ug/l	99
24) 1,1-Dichloroethane	3.605	63	49826	20.716	ug/l	99
25) 2-Butanone	4.562	43	118713	124.449	ug/l	97
26) 2,2-Dichloropropane	4.470	77	22886	12.799	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	29788	20.065	ug/l	99
28) Bromochloromethane	4.891	49	23869	20.579	ug/l	99
29) Tetrahydrofuran	5.007	42	77433	122.519	ug/l	99
30) Chloroform	5.086	83	49751	21.147	ug/l	97
31) Cyclohexane	5.464	56	42340	19.181	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	39276	19.831	ug/l	99
36) 1,1-Dichloropropene	5.684	75	31519	18.903	ug/l	99
37) Ethyl Acetate	4.714	43	43097	22.714	ug/l	99
38) Carbon Tetrachloride	5.671	117	31694	19.334	ug/l	97
39) Methylcyclohexane	7.372	83	39769	18.676	ug/l	97
40) Benzene	6.031	78	105787	20.298	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	23924	23.605	ug/l		97
42) 1,2-Dichloroethane	6.086	62	38653	22.886	ug/l		99
43) Isopropyl Acetate	6.348	43	66727	22.094	ug/l		99
44) Trichloroethene	7.122	130	24052	20.191	ug/l		98
45) 1,2-Dichloropropane	7.427	63	27128	20.945	ug/l		99
46) Dibromomethane	7.580	93	19323	21.357	ug/l		97
47) Bromodichloromethane	7.817	83	38038	21.732	ug/l		97
48) Methyl methacrylate	7.695	41	32627	22.757	ug/l		98
49) 1,4-Dioxane	7.665	88	14602	479.170	ug/l		97
51) 4-Methyl-2-Pentanone	8.573	43	229615	124.081	ug/l		98
52) Toluene	8.714	92	63326	20.463	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	30917	17.871	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	36118	18.675	ug/l		97
55) 1,1,2-Trichloroethane	9.152	97	26358	21.992	ug/l		99
56) Ethyl methacrylate	9.116	69	39850	20.791	ug/l		97
57) 1,3-Dichloropropane	9.305	76	45644	21.836	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	96311	102.342	ug/l		99
59) 2-Hexanone	9.433	43	168768	126.428	ug/l		100
60) Dibromochloromethane	9.518	129	27705	21.668	ug/l		99
61) 1,2-Dibromoethane	9.610	107	26311	21.764	ug/l		98
64) Tetrachloroethene	9.268	164	20140	20.102	ug/l		97
65) Chlorobenzene	10.079	112	68777	20.316	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	22508	20.627	ug/l		97
67) Ethyl Benzene	10.189	91	119165	19.905	ug/l		100
68) m/p-Xylenes	10.299	106	89735	40.699	ug/l		98
69) o-Xylene	10.640	106	44281	20.018	ug/l		98
70) Styrene	10.652	104	73832	20.767	ug/l		98
71) Bromoform	10.799	173	17403	21.449	ug/l	#	99
73) Isopropylbenzene	10.963	105	112099	19.794	ug/l		99
74) N-amyl acetate	10.841	43	52972	20.606	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	42413	21.738	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	33440m	21.394	ug/l		
77) Bromobenzene	11.195	156	26310	20.466	ug/l		99
78) n-propylbenzene	11.305	91	128284	19.641	ug/l		100
79) 2-Chlorotoluene	11.359	91	79275	19.775	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	94545	20.581	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	8759	15.196	ug/l		96
82) 4-Chlorotoluene	11.451	91	86281	19.443	ug/l		98
83) tert-Butylbenzene	11.713	119	93670	20.159	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	94734	20.943	ug/l		100
85) sec-Butylbenzene	11.890	105	115953	20.160	ug/l		100
86) p-Isopropyltoluene	12.006	119	91554	19.827	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	47934	20.400	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	46657	19.615	ug/l		99
89) n-Butylbenzene	12.329	91	78135	19.249	ug/l		100
90) Hexachloroethane	12.536	117	15919	18.483	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	48632	21.031	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.944	75	7987	22.119	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	27424	19.617	ug/l		99
94) Hexachlorobutadiene	13.725	225	10934	19.616	ug/l		99
95) Naphthalene	13.774	128	108350	21.279	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	28937	20.432	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

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

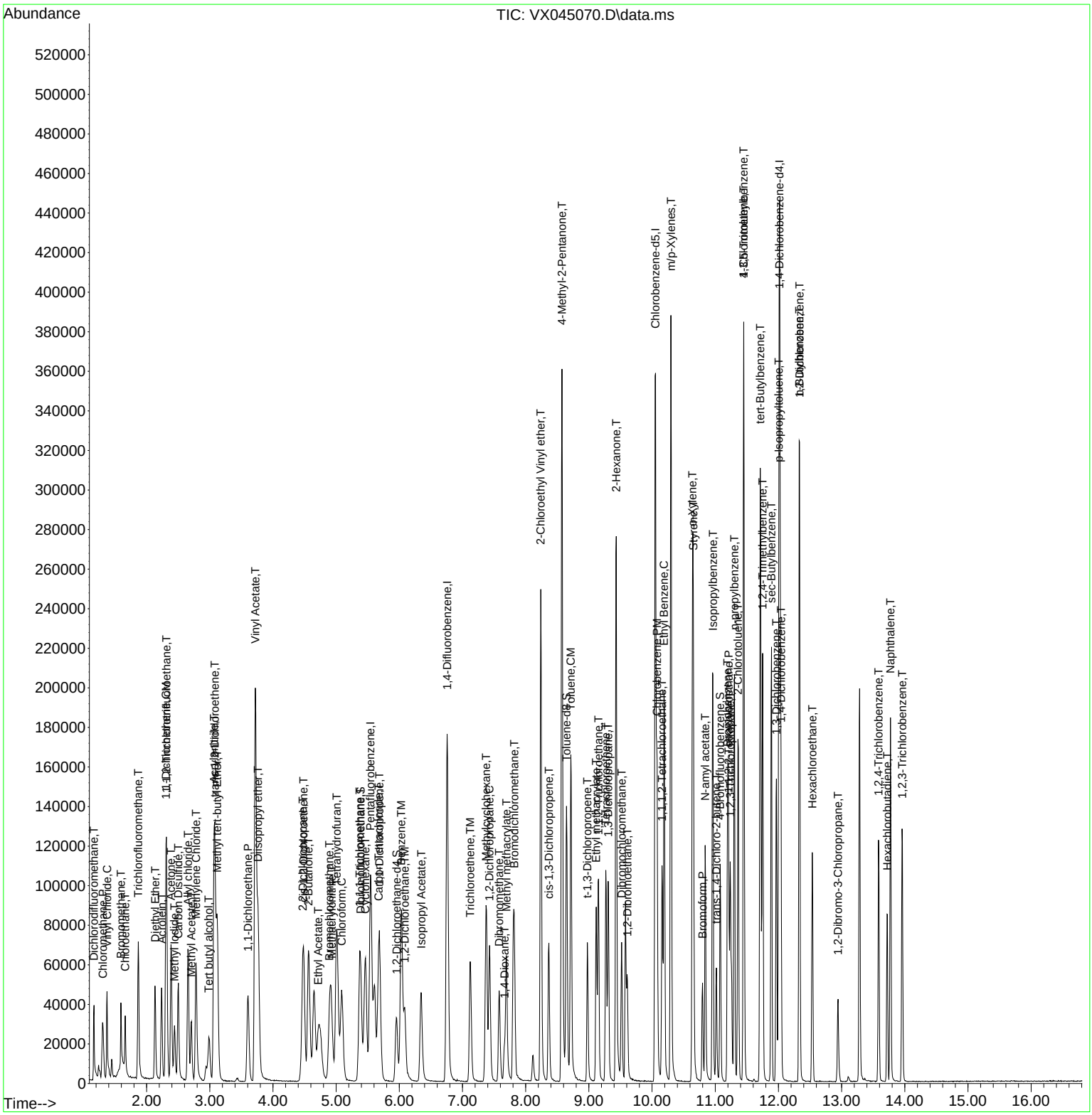
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

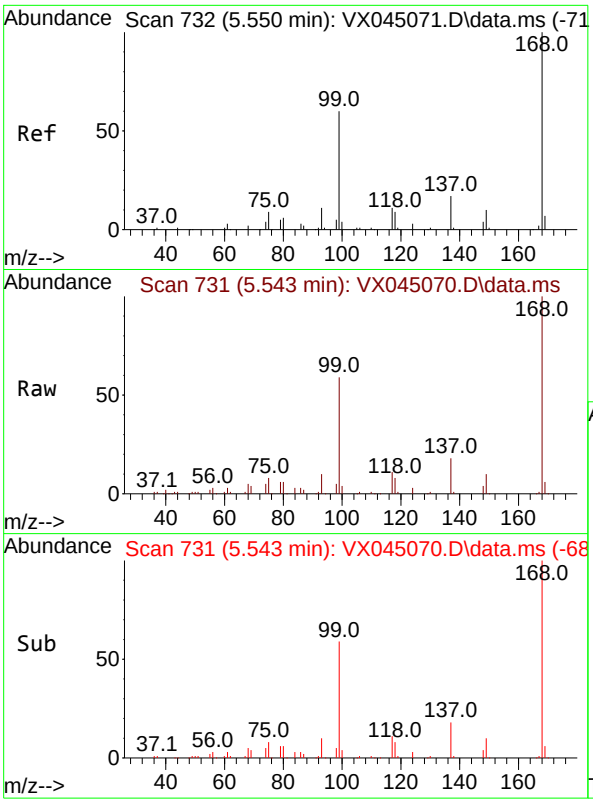
Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

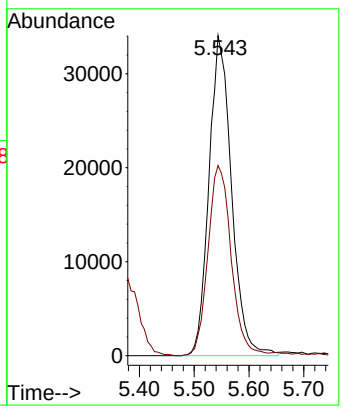




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:168 Resp: 9733

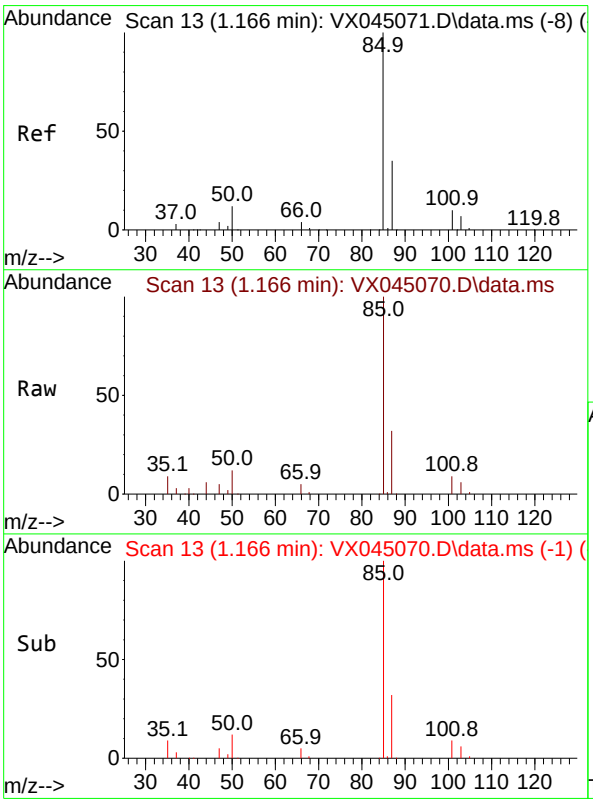
Ion	Ratio	Lower	Upper
168	100		
99	59.4	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

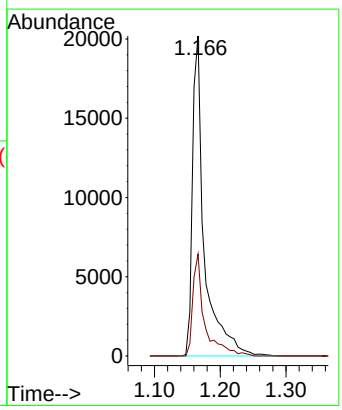
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

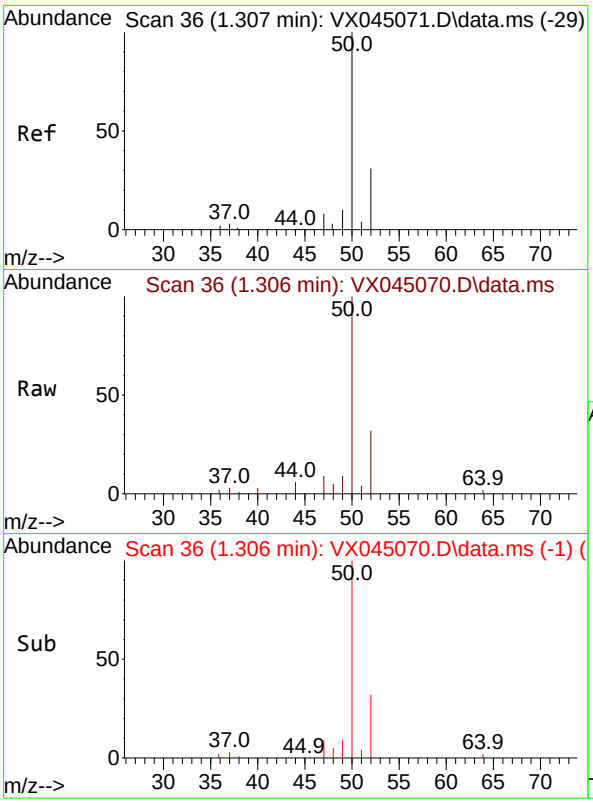


#2
Dichlorodifluoromethane
Concen: 18.750 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 85 Resp: 25155

Ion	Ratio	Lower	Upper
85	100		
87	31.9	17.4	52.3

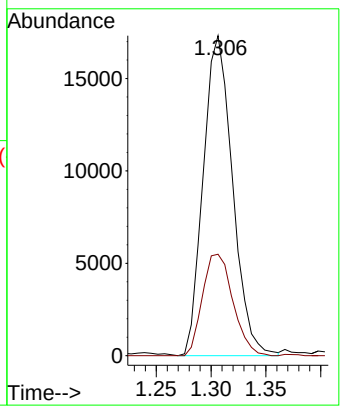




#3
Chloromethane
Concen: 19.736 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 50 Resp: 3221

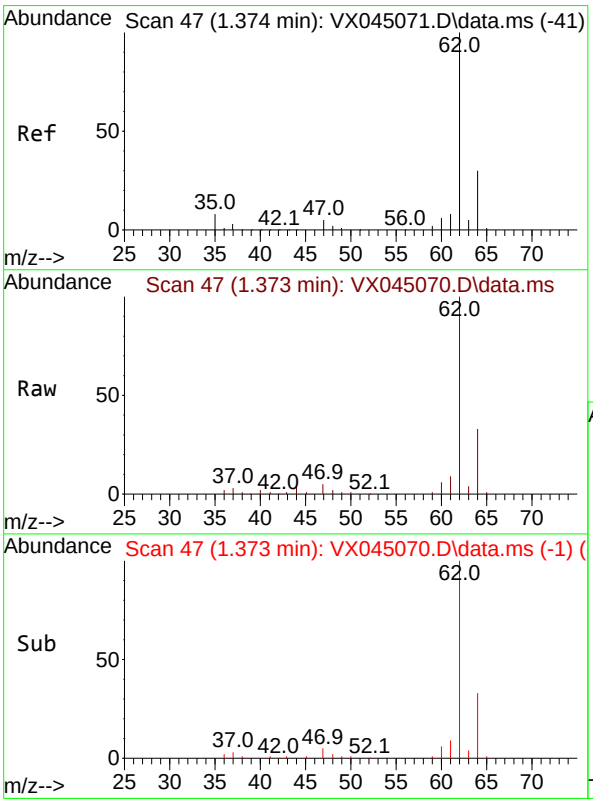
Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

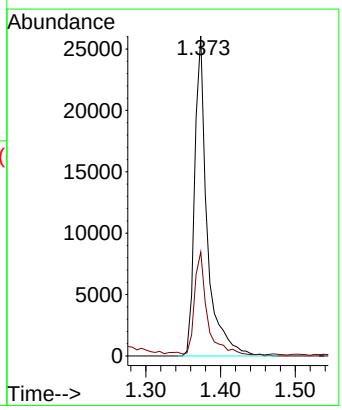
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

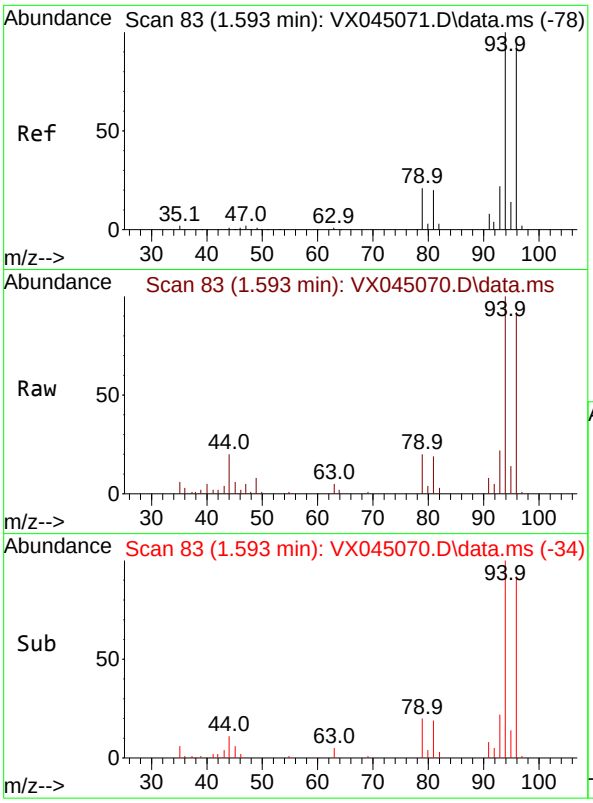


#4
Vinyl Chloride
Concen: 18.899 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 30134

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.3	36.5

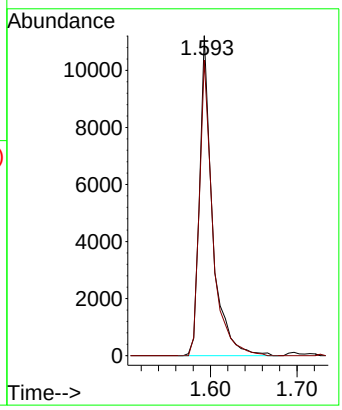




#5
Bromomethane
Concen: 23.239 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 94 Resp: 1158

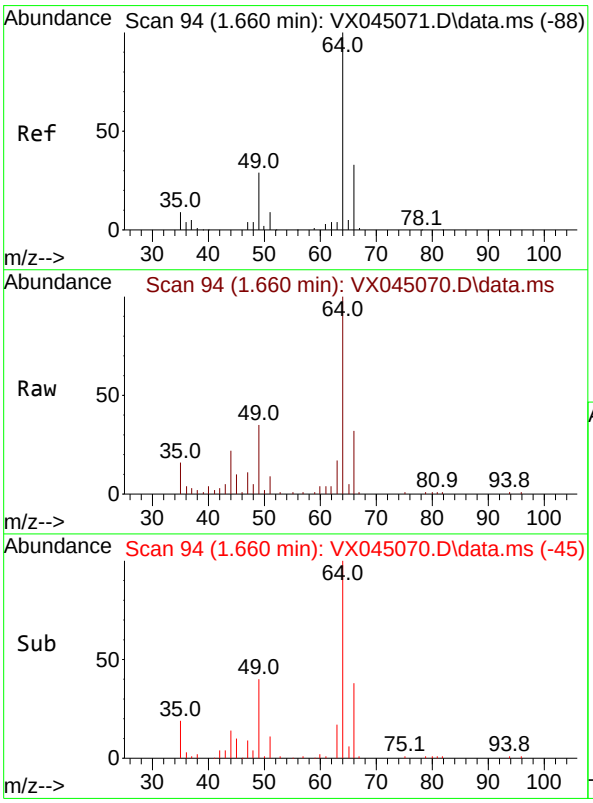
Ion	Ratio	Lower	Upper
94	100		
96	92.4	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

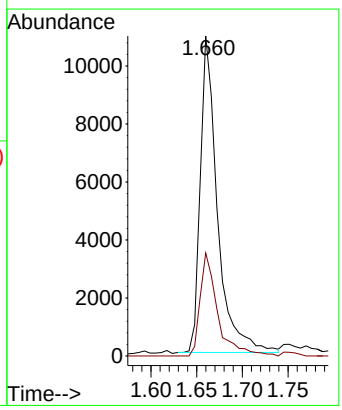
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

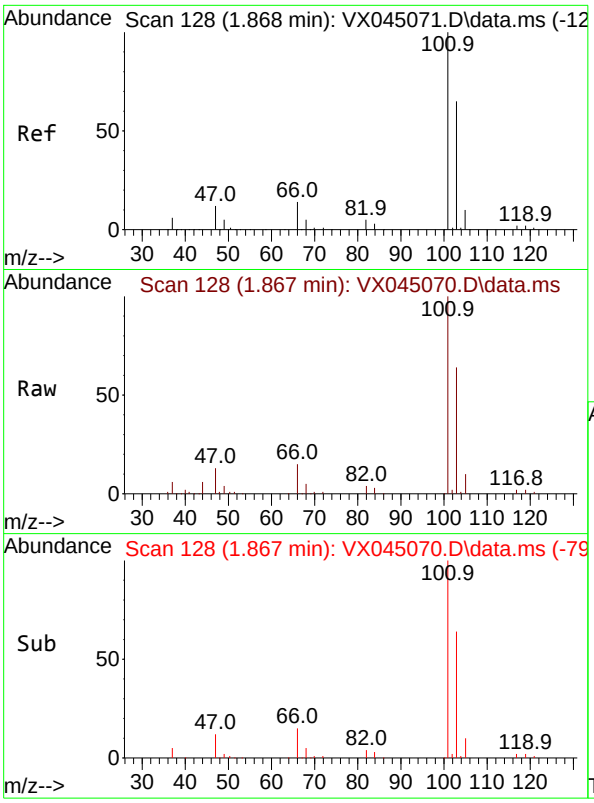


#6
Chloroethane
Concen: 23.457 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 64 Resp: 14237

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.7	40.1

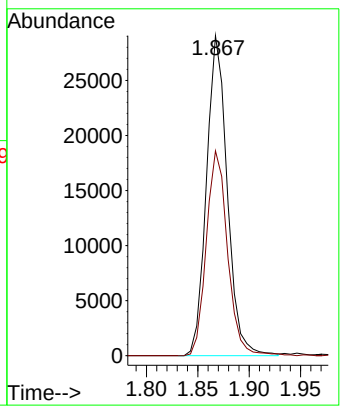




#7
Trichlorofluoromethane
Concen: 20.015 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:101 Resp: 4088

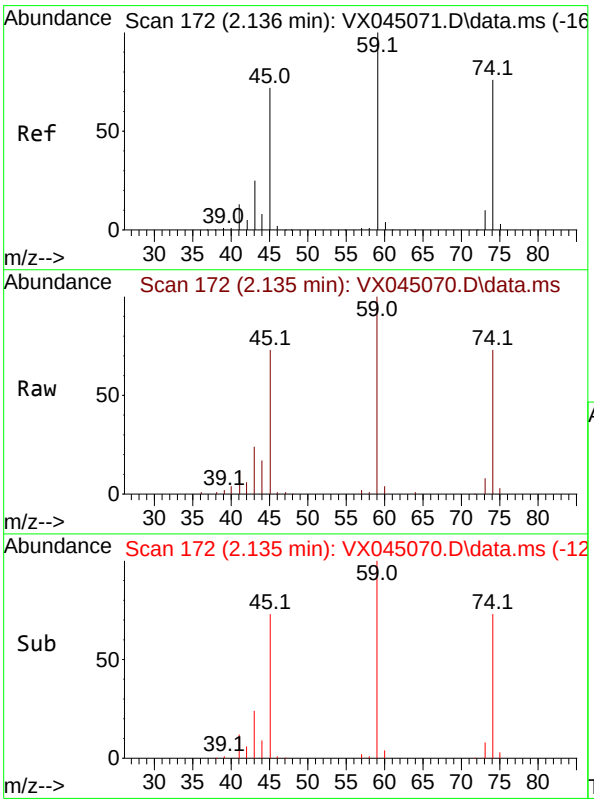
Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

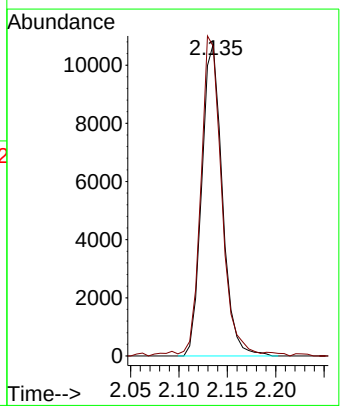
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

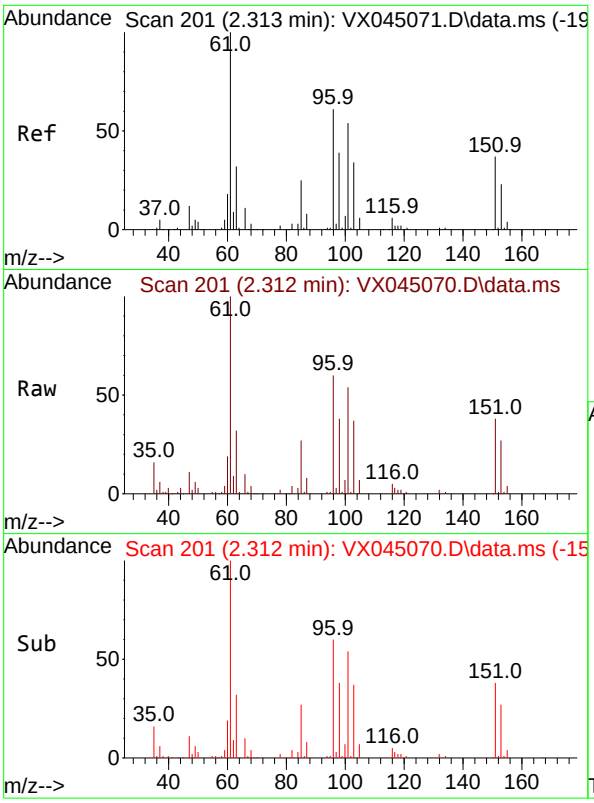


#8
Diethyl Ether
Concen: 21.437 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 74 Resp: 15911

Ion	Ratio	Lower	Upper
74	100		
45	105.3	51.5	154.5

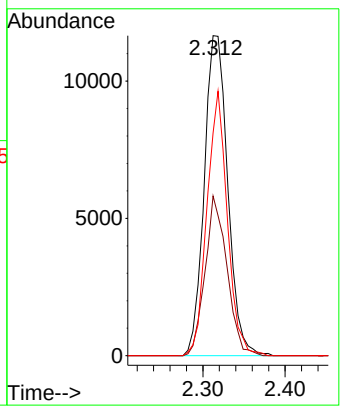




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.984 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:101 Resp: 2315

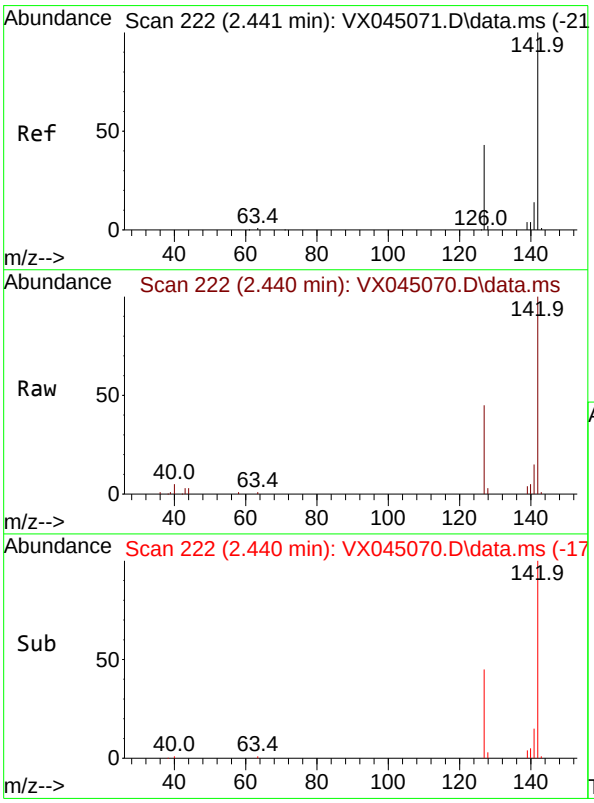
Ion	Ratio	Lower	Upper
101	100		
85	46.5	36.2	54.4
151	71.8	56.4	84.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

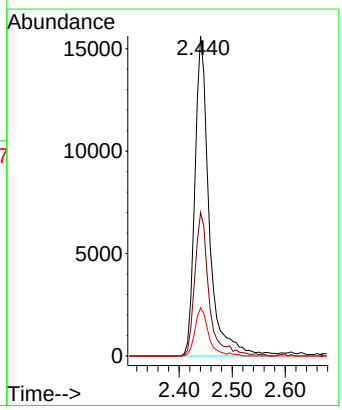
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

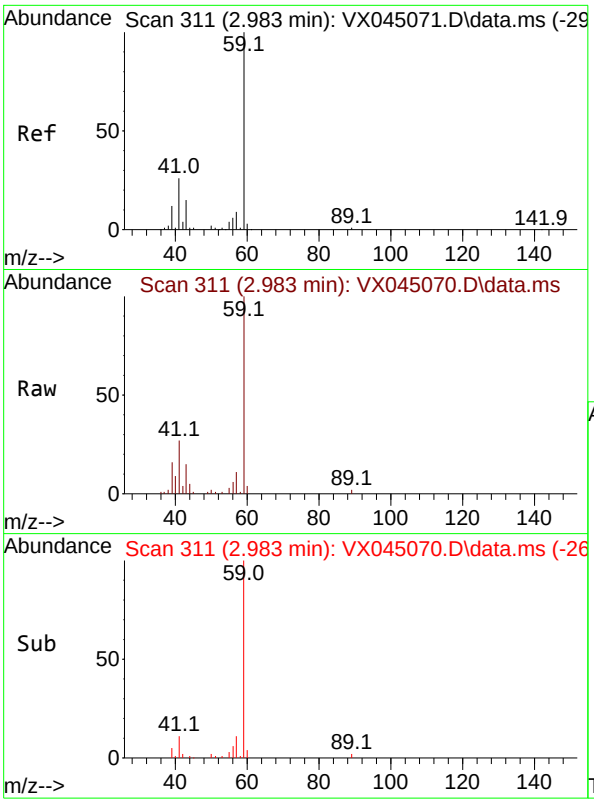


#10
Methyl Iodide
Concen: 18.867 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:142 Resp: 29500

Ion	Ratio	Lower	Upper
142	100		
127	44.2	35.4	53.2
141	14.3	11.6	17.4

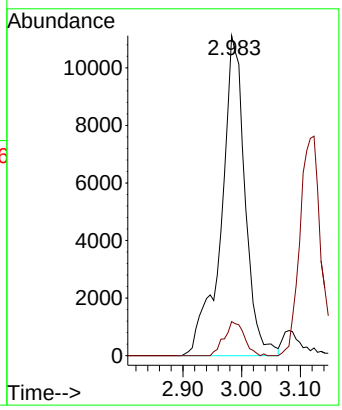




#11
Tert butyl alcohol
Concen: 118.627 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 59 Resp: 3124

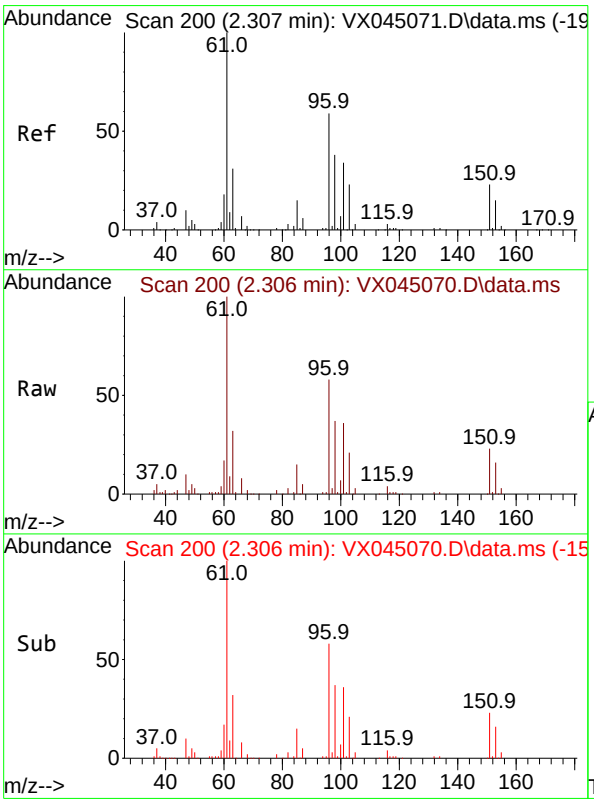
Ion	Ratio	Lower	Upper
59	100		
57	8.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

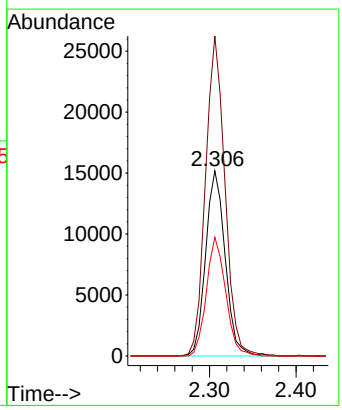
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

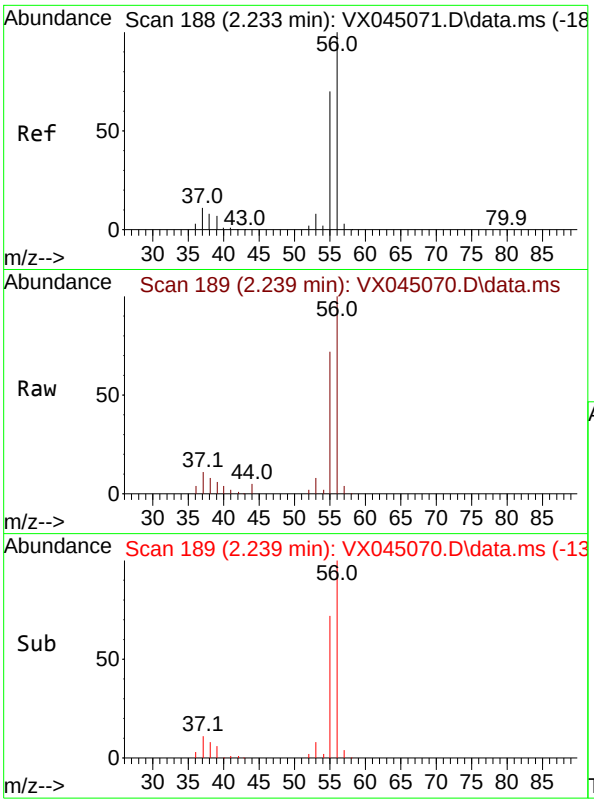


#12
1,1-Dichloroethene
Concen: 19.014 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 96 Resp: 23810

Ion	Ratio	Lower	Upper
96	100		
61	172.8	134.6	202.0
98	64.1	51.0	76.6

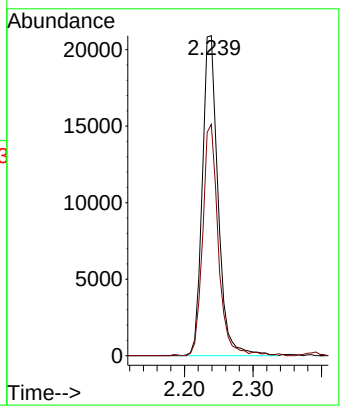




#13
Acrolein
Concen: 117.747 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 56 Resp: 3358

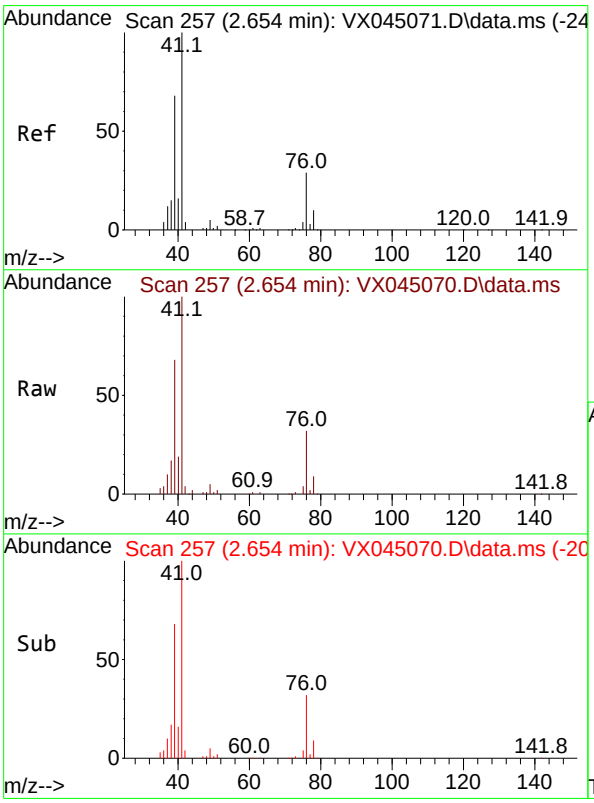
Ion	Ratio	Lower	Upper
56	100		
55	71.4	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

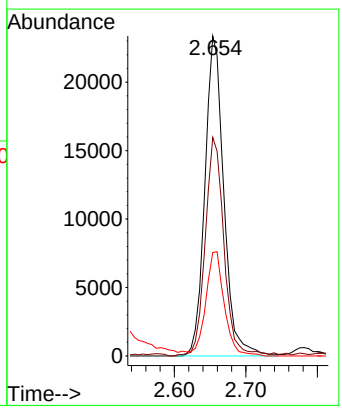
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

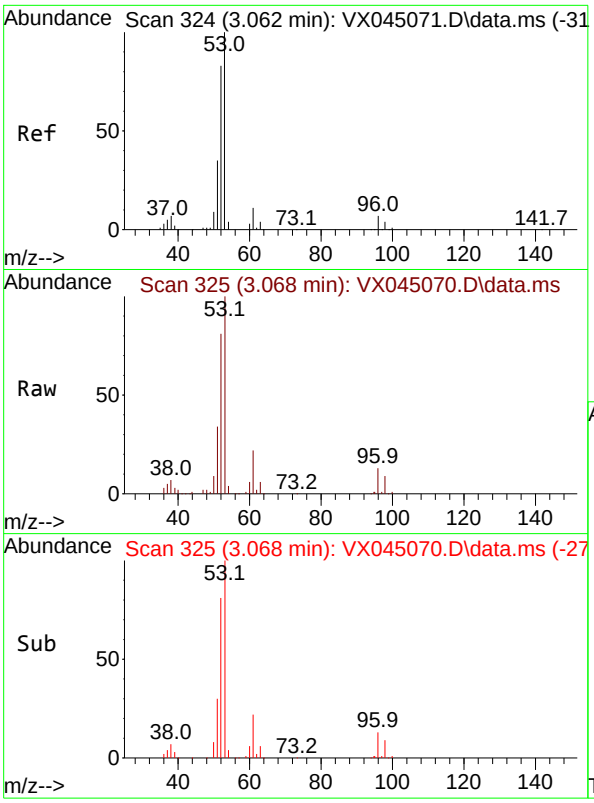


#14
Allyl chloride
Concen: 19.096 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 42993

Ion	Ratio	Lower	Upper
41	100		
39	67.4	53.8	80.8
76	32.1	25.2	37.8

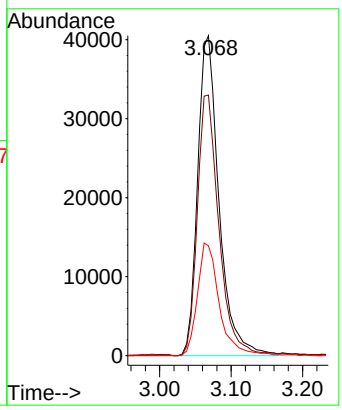




#15
Acrylonitrile
Concen: 117.598 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 53 Resp: 8418

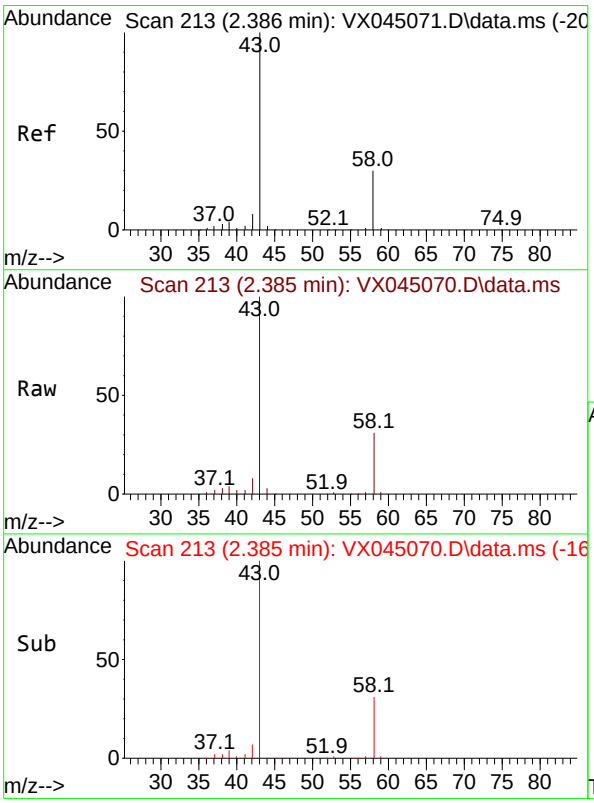
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.2	99.2
51	36.0	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

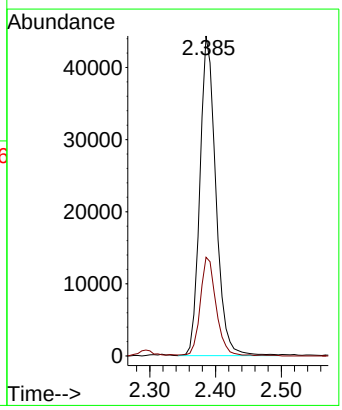
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

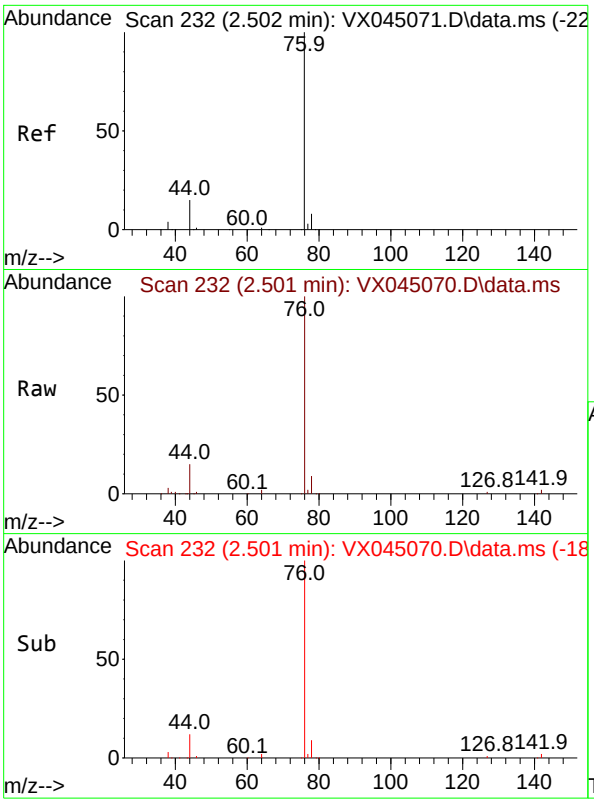


#16
Acetone
Concen: 126.257 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 74701

Ion	Ratio	Lower	Upper
43	100		
58	30.7	24.2	36.4

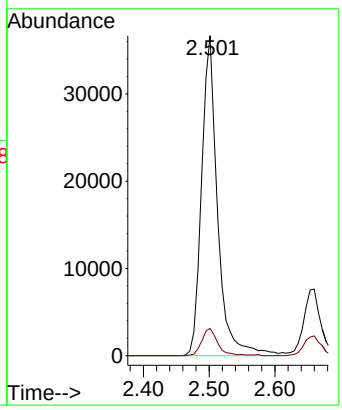




#17
Carbon Disulfide
Concen: 18.139 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 76 Resp: 6180

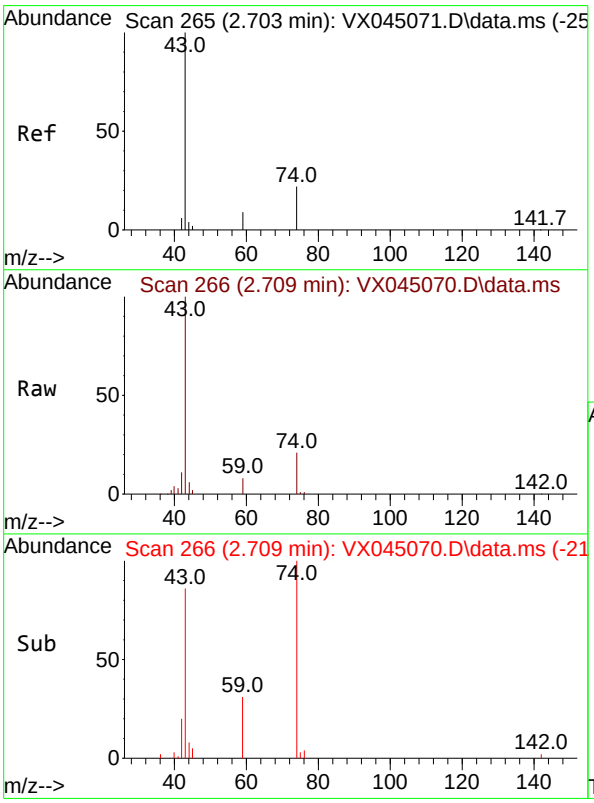
Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

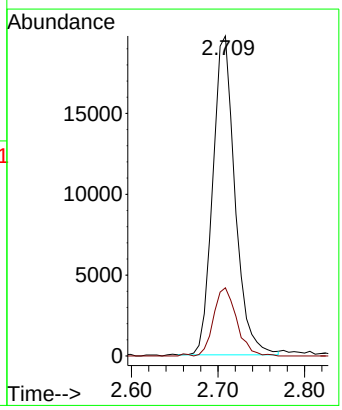
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

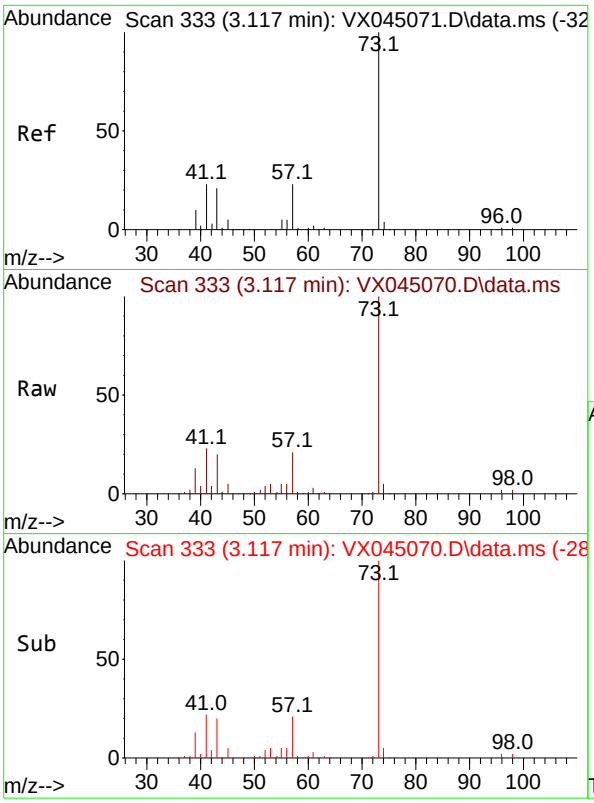


#18
Methyl Acetate
Concen: 19.729 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 35157

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2

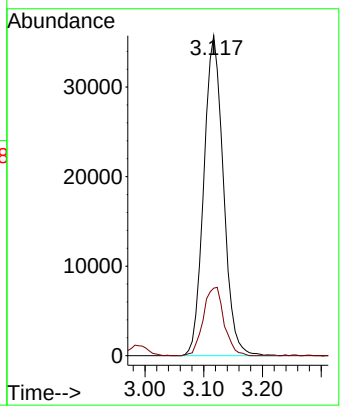




#19
Methyl tert-butyl Ether
Concen: 20.689 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 73 Resp: 8283

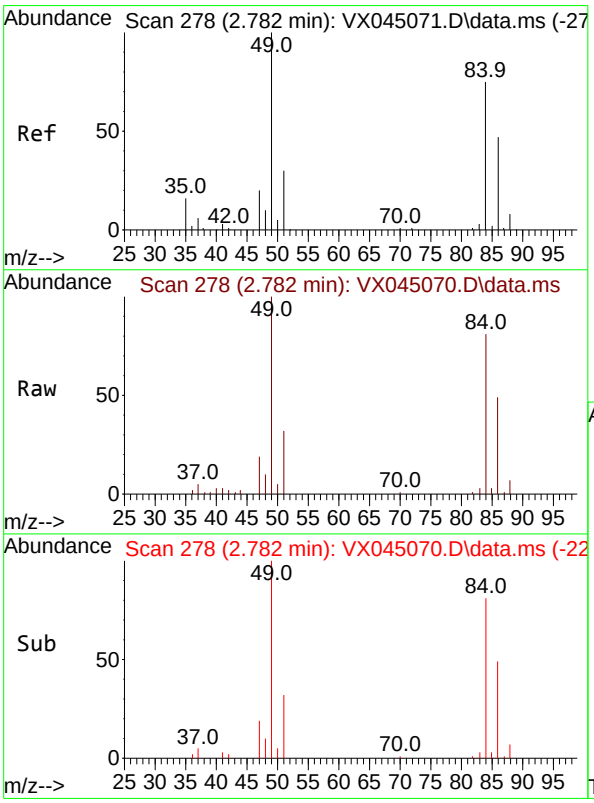
Ion	Ratio	Lower	Upper
73	100		
57	21.1	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

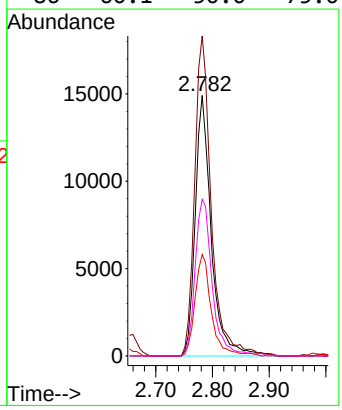
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

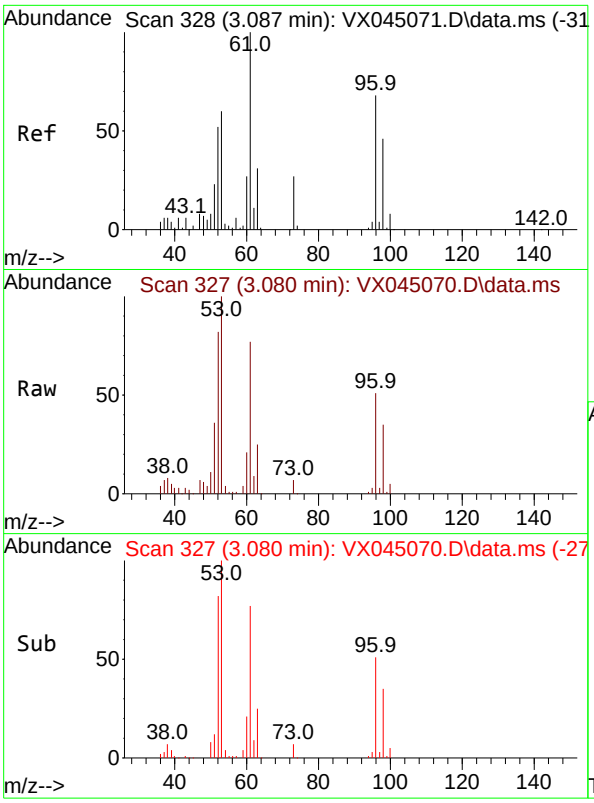


#20
Methylene Chloride
Concen: 20.895 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 84 Resp: 29281

Ion	Ratio	Lower	Upper
84	100		
49	122.9	106.5	159.7
51	38.9	32.1	48.1
86	60.1	50.0	75.0

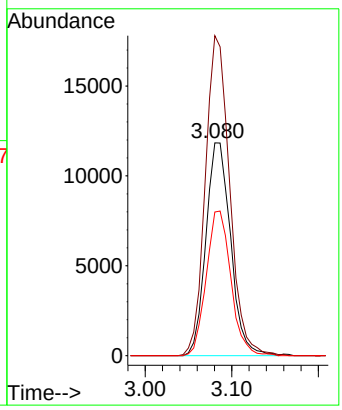




#21
trans-1,2-Dichloroethene
Concen: 19.057 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 96 Resp: 2347

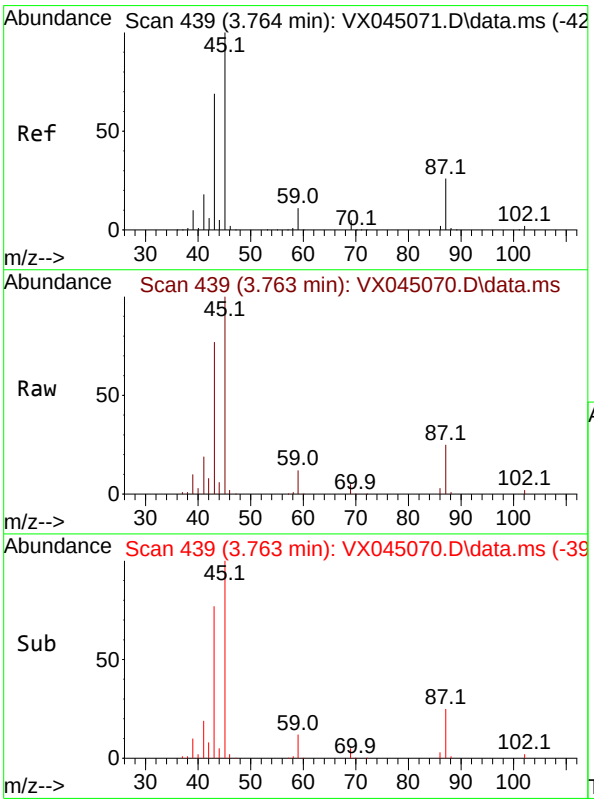
Ion	Ratio	Lower	Upper
96	100		
61	150.3	117.0	175.4
98	67.5	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

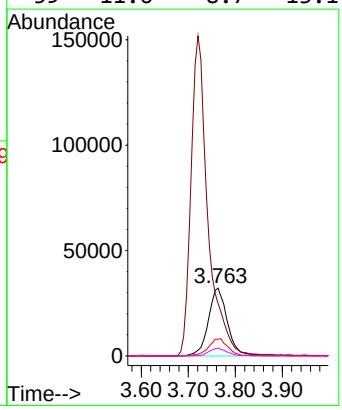
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

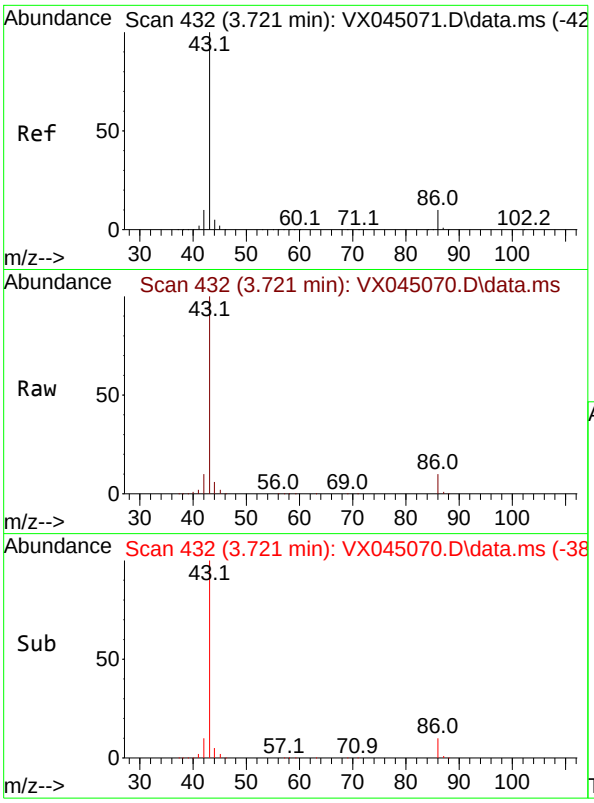


#22
Diisopropyl ether
Concen: 20.995 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 45 Resp: 90378

Ion	Ratio	Lower	Upper
45	100		
43	76.4	54.9	82.3
87	24.7	21.0	31.4
59	11.6	8.7	13.1





#23
Vinyl Acetate
Concen: 108.038 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

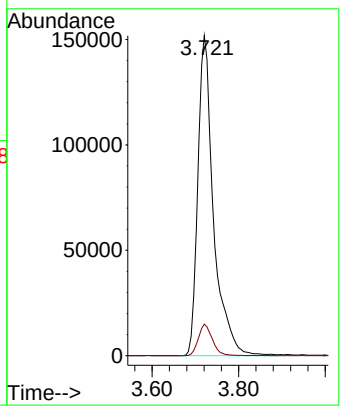
Tgt Ion: 43 Resp: 38180

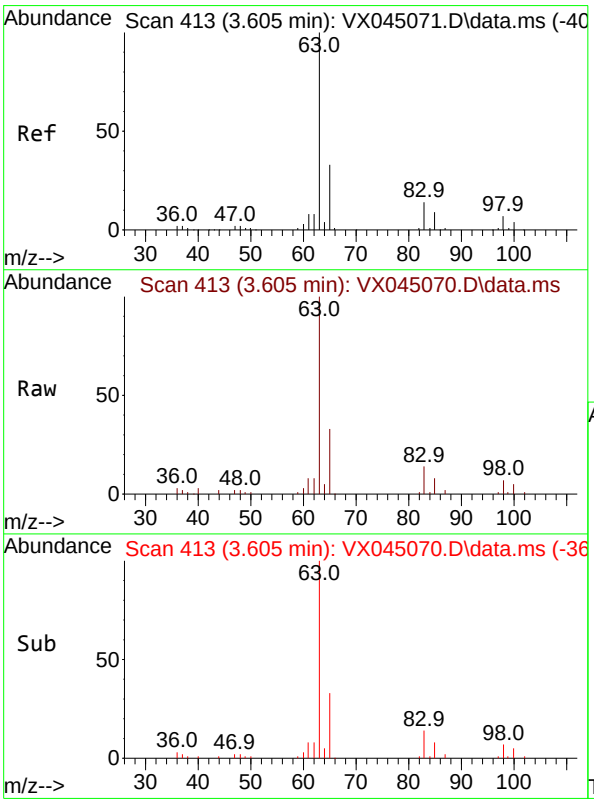
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

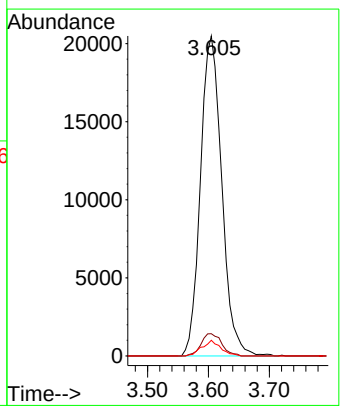


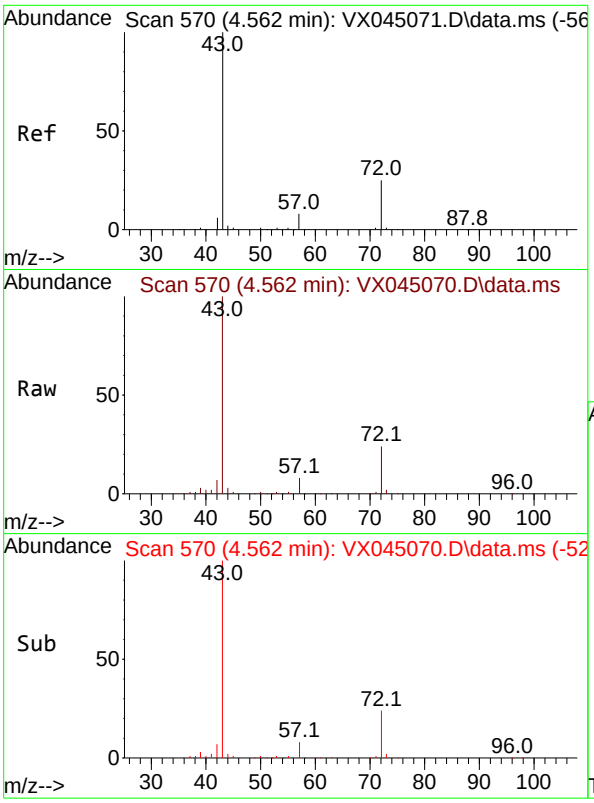


#24
1,1-Dichloroethane
Concen: 20.716 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 49826

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.9	2.1	6.5





#25
2-Butanone
Concen: 124.449 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

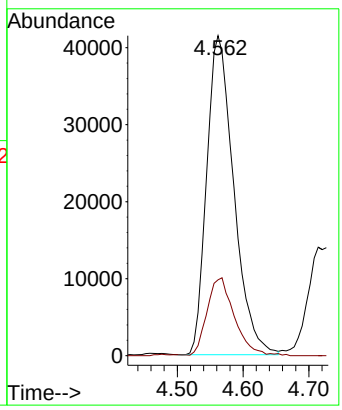
Tgt Ion: 43 Resp: 11871

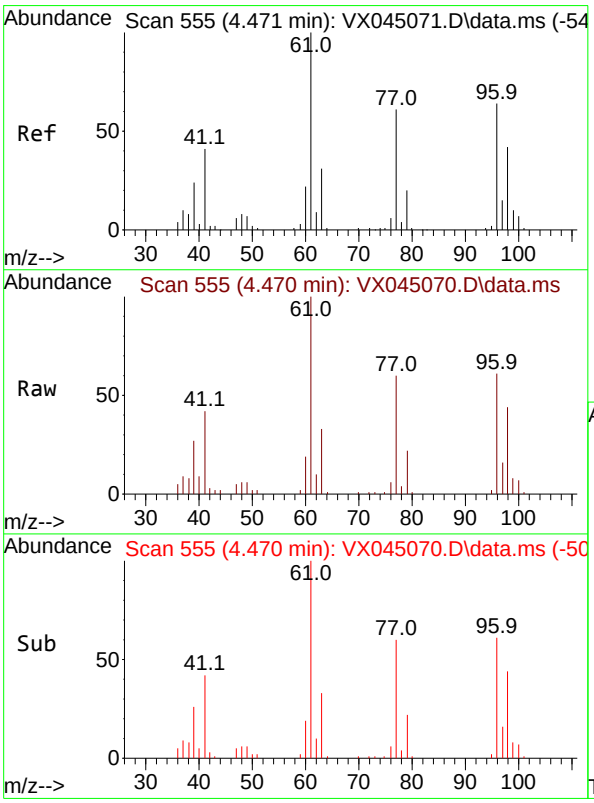
Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

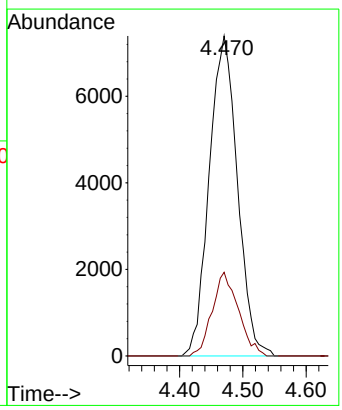


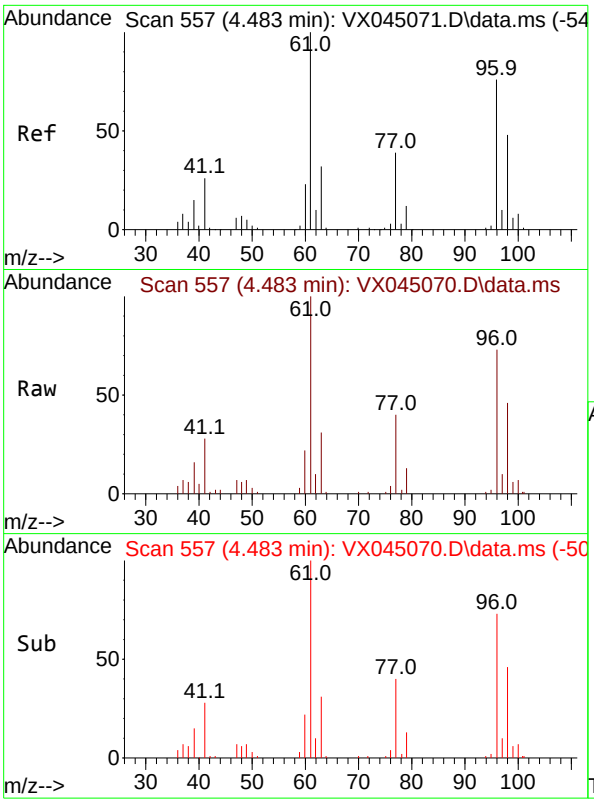


#26
2,2-Dichloropropane
Concen: 12.799 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 77 Resp: 22886

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 20.065 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

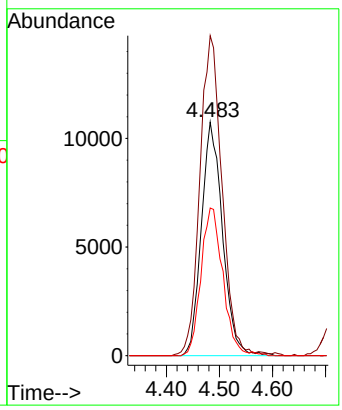
Tgt Ion: 96 Resp: 2978

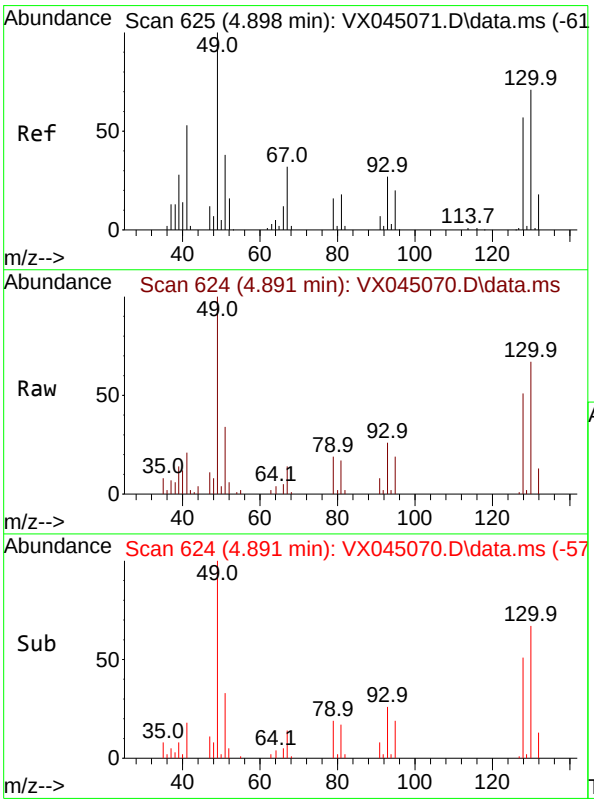
Ion	Ratio	Lower	Upper
96	100		
61	142.7	0.0	283.2
98	65.6	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

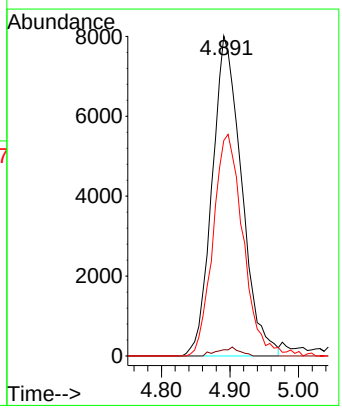


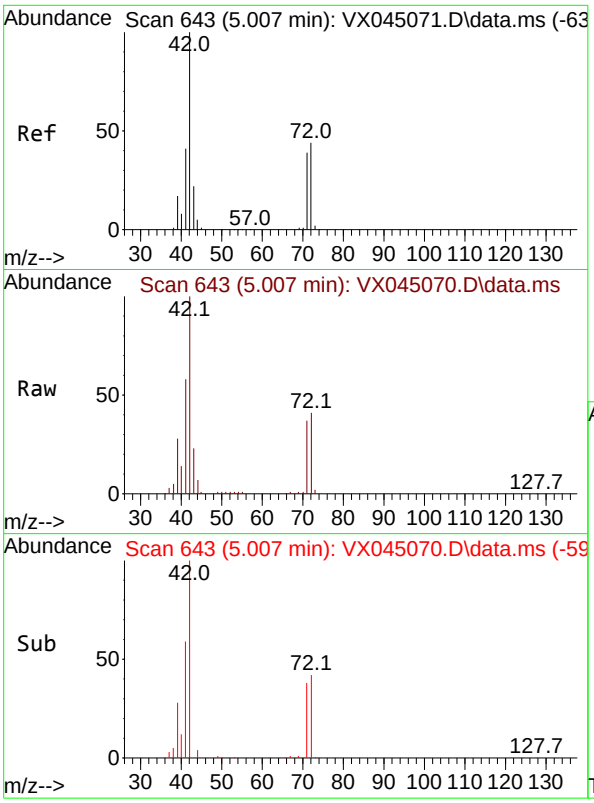


#28
Bromochloromethane
Concen: 20.579 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 49 Resp: 23869

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	70.6	56.1	84.1





#29
Tetrahydrofuran
Concen: 122.519 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

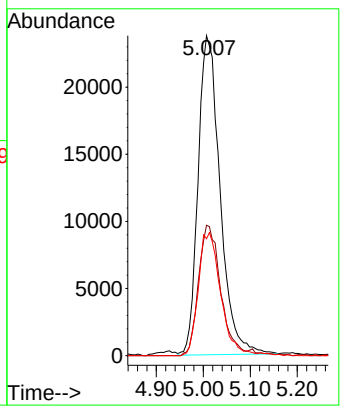
Tgt Ion: 42 Resp: 7743

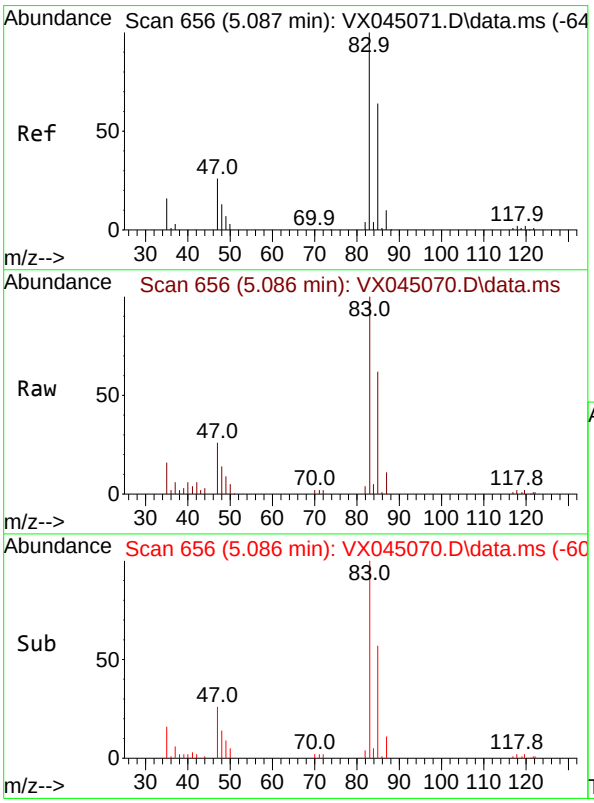
Ion	Ratio	Lower	Upper
42	100		
72	41.0	34.1	51.1
71	39.0	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

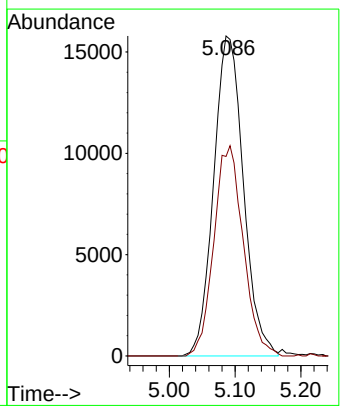


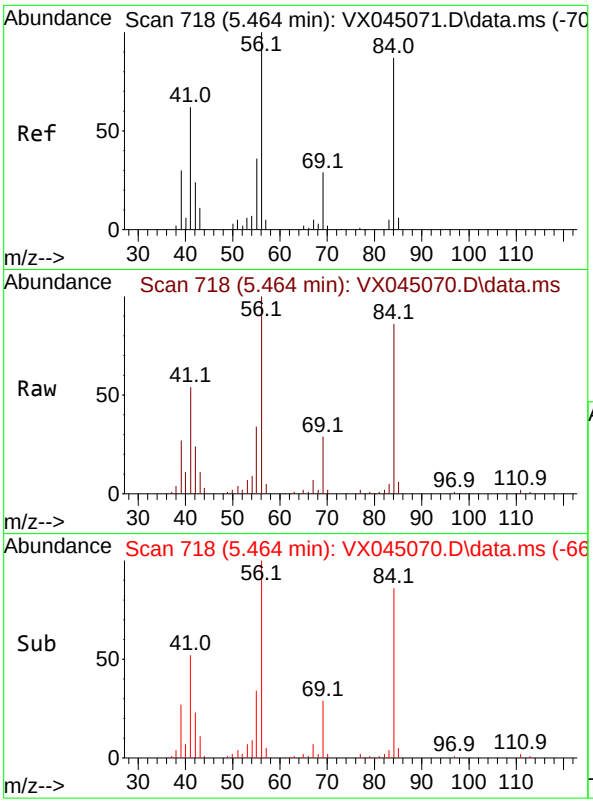


#30
Chloroform
Concen: 21.147 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 49751

Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.4	77.2

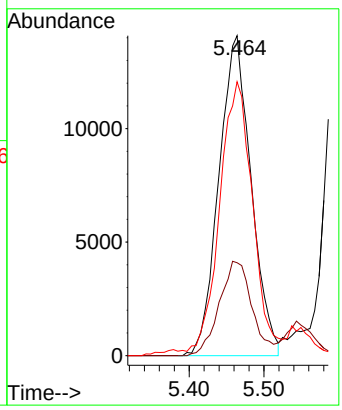




#31
Cyclohexane
Concen: 19.181 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 56 Resp: 4234

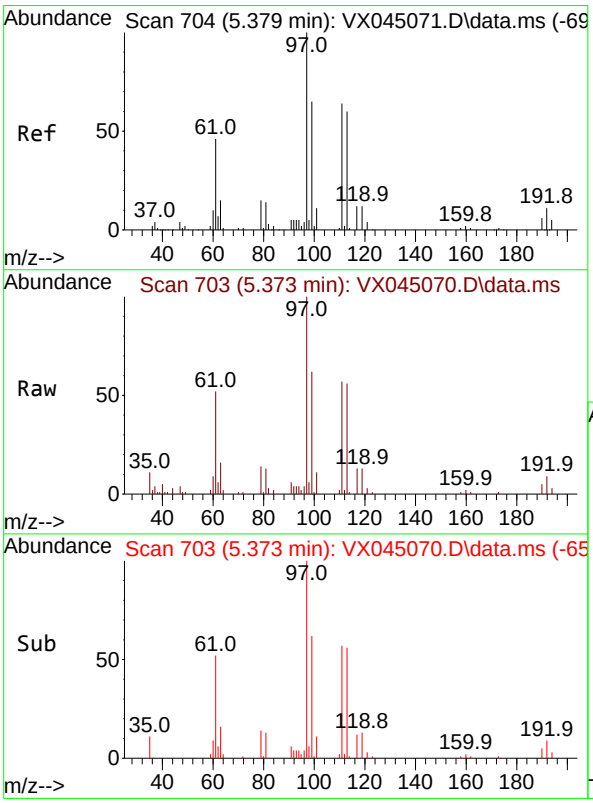
Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.4	35.2
84	84.2	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

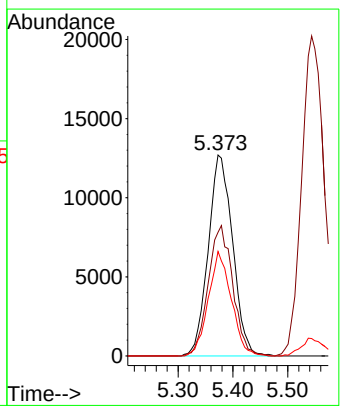
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

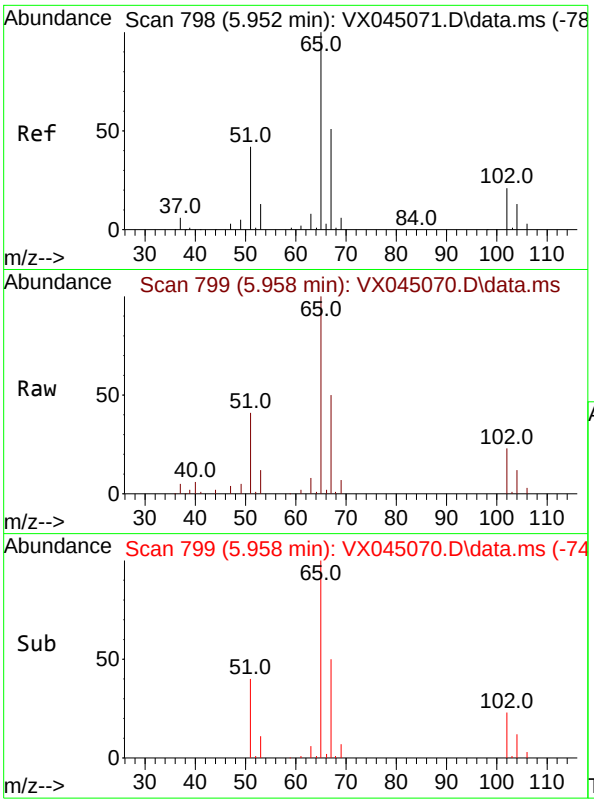


#32
1,1,1-Trichloroethane
Concen: 19.831 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 97 Resp: 39276

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.6	77.4
61	48.9	38.4	57.6

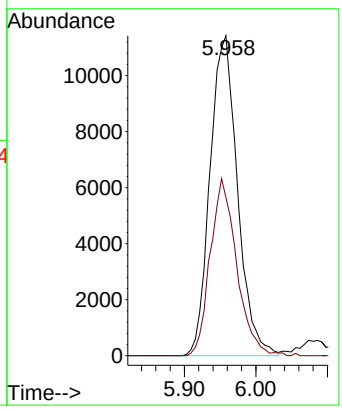




#33
1,2-Dichloroethane-d4
Concen: 21.221 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 65 Resp: 3051

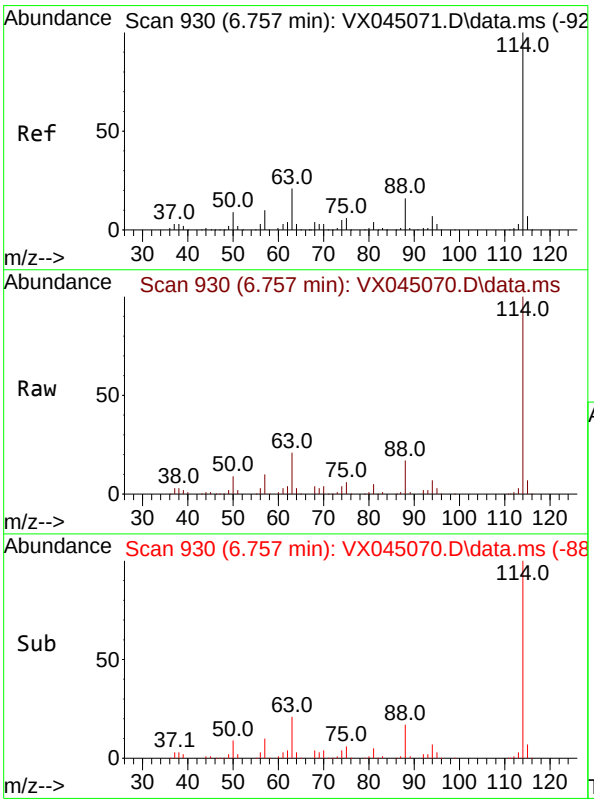
Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

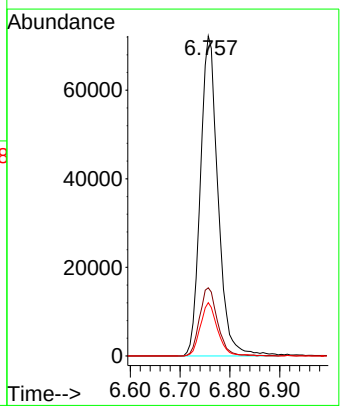
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

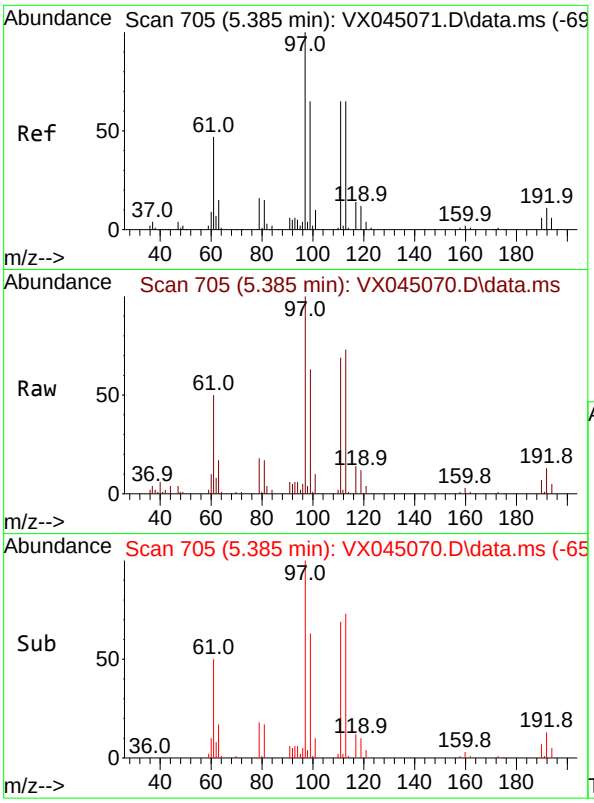


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:114 Resp: 177403

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	41.8
88	16.6	0.0	32.8

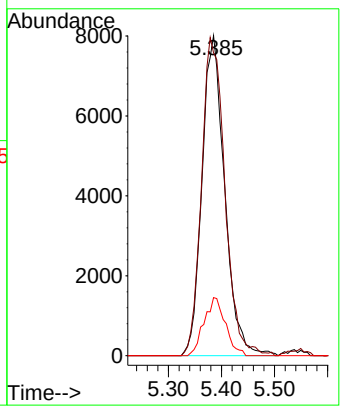




#35
Dibromofluoromethane
Concen: 20.473 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:113 Resp: 2373

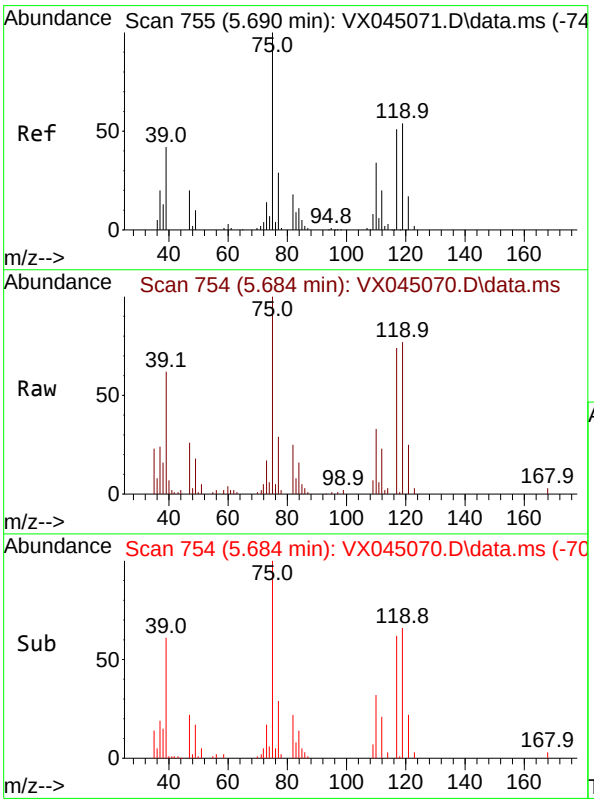
Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	17.2	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

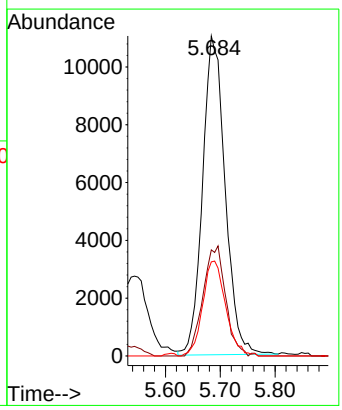
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

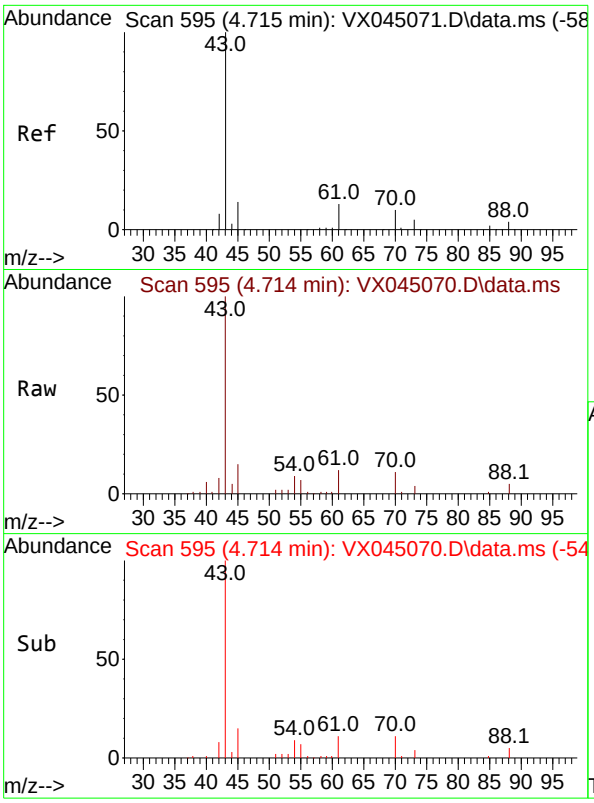


#36
1,1-Dichloropropene
Concen: 18.903 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 31519

Ion	Ratio	Lower	Upper
75	100		
110	34.4	16.9	50.6
77	30.3	24.5	36.7





#37
Ethyl Acetate
Concen: 22.714 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

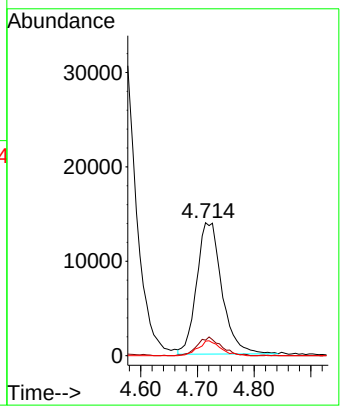
Tgt Ion: 43 Resp: 4309

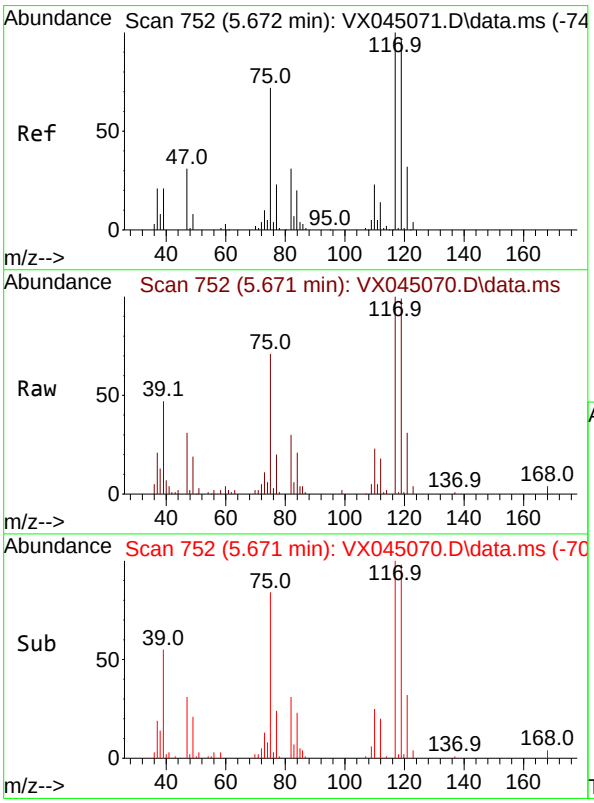
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.8	16.2
70	10.1	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

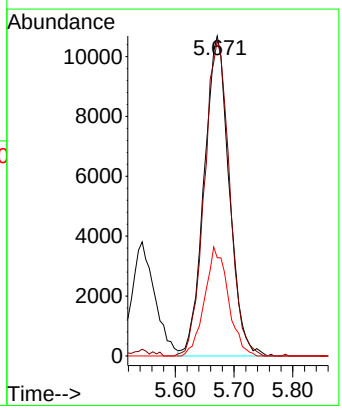


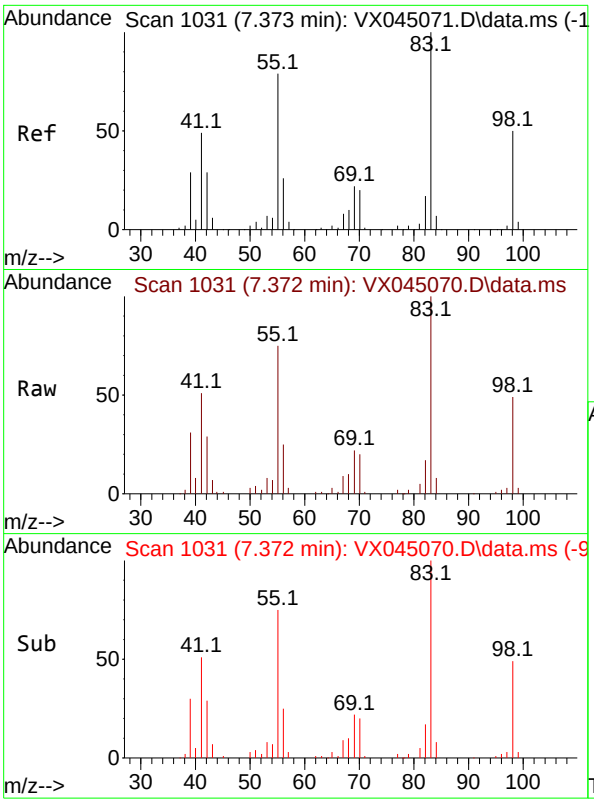


#38
Carbon Tetrachloride
Concen: 19.334 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:117 Resp: 31694

Ion	Ratio	Lower	Upper
117	100		
119	98.7	76.7	115.1
121	30.7	25.5	38.3

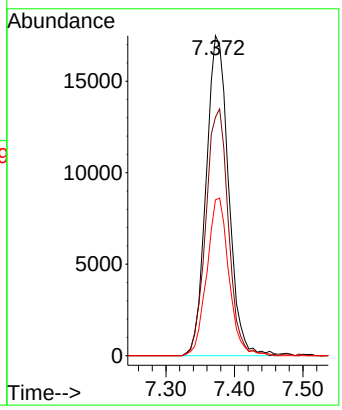




#39
Methylcyclohexane
Concen: 18.676 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 3976

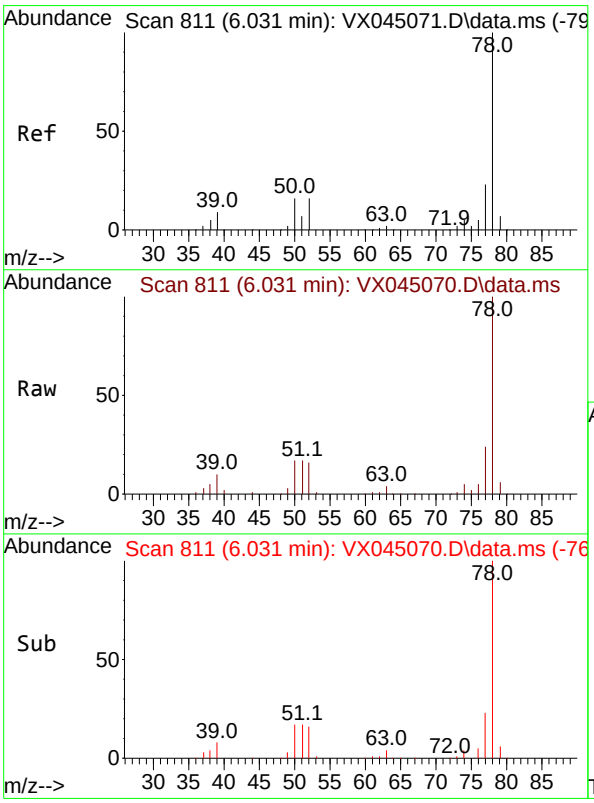
Ion	Ratio	Lower	Upper
83	100		
55	74.6	63.0	94.4
98	48.7	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

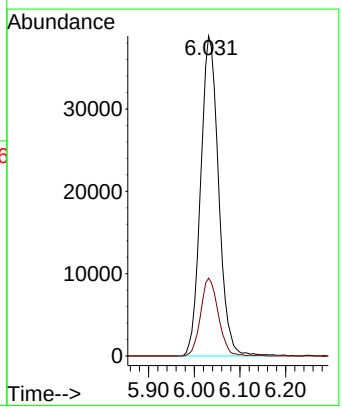
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

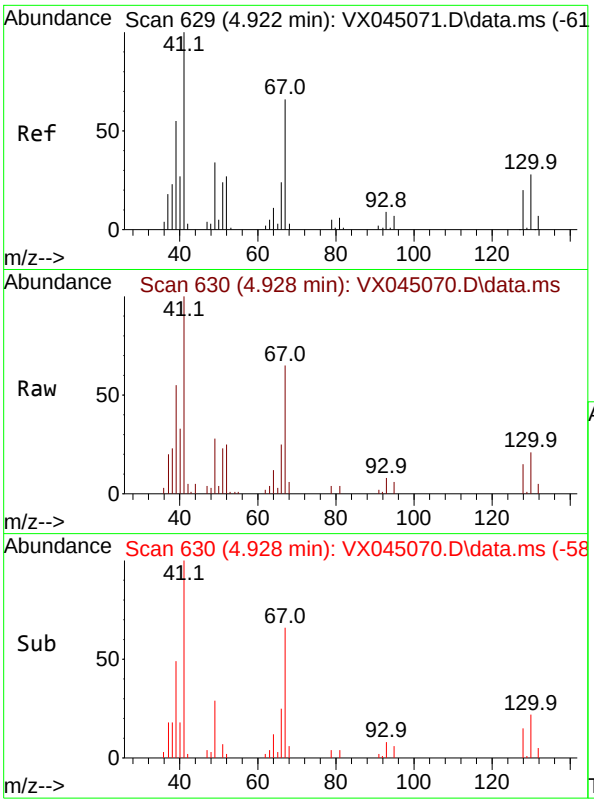


#40
Benzene
Concen: 20.298 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 78 Resp: 105787

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.8	28.2

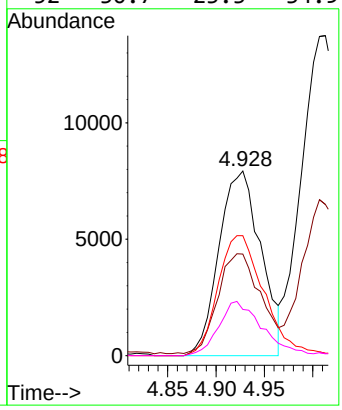




#41
Methacrylonitrile
Concen: 23.605 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 2392

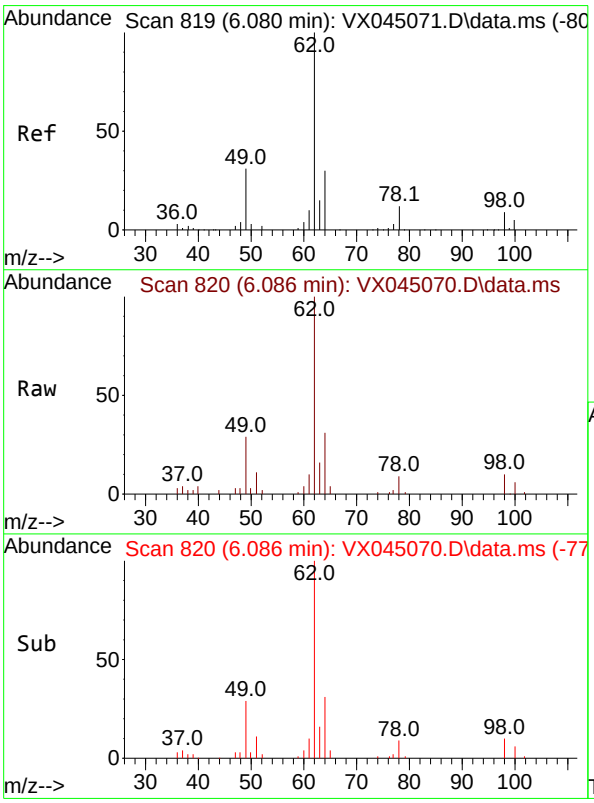
Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.6	67.0
67	71.6	53.9	80.9
52	30.7	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

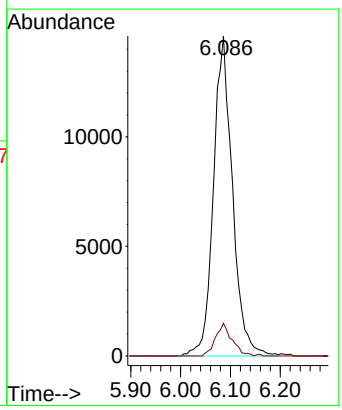
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

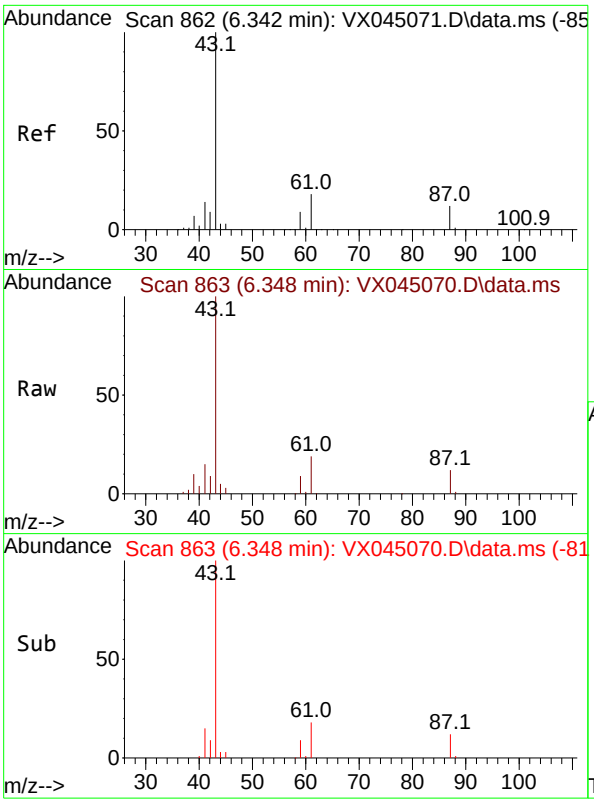


#42
1,2-Dichloroethane
Concen: 22.886 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 38653

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2





#43
Isopropyl Acetate
Concen: 22.094 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

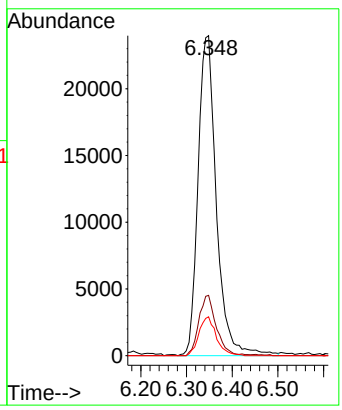
Tgt Ion: 43 Resp: 6672

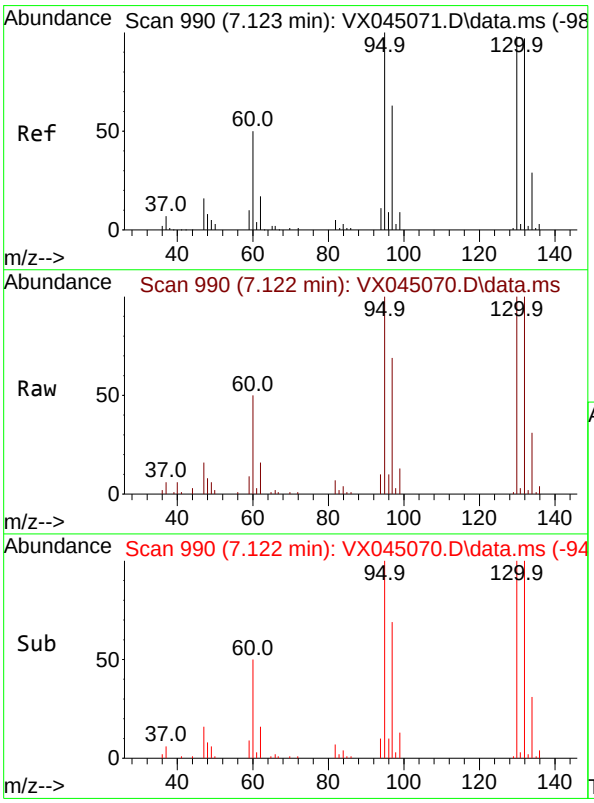
Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.9	22.3
87	11.5	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

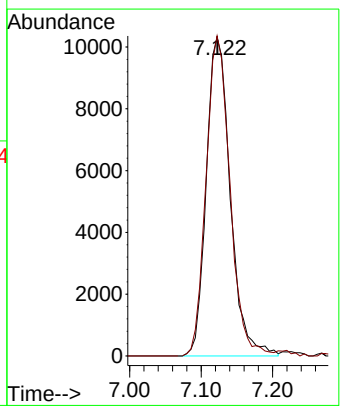


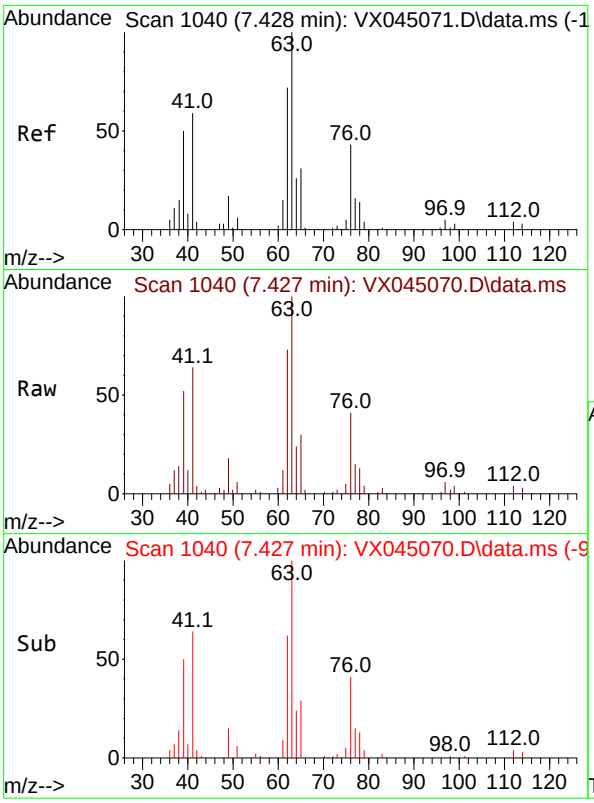


#44
Trichloroethene
Concen: 20.191 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:130 Resp: 24052

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	205.0

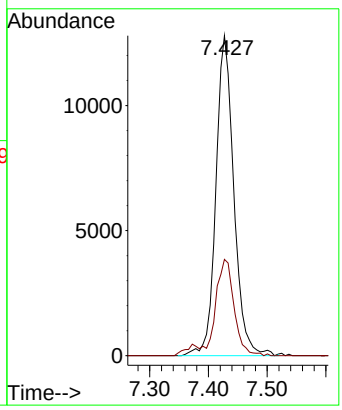




#45
1,2-Dichloropropane
Concen: 20.945 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 2712

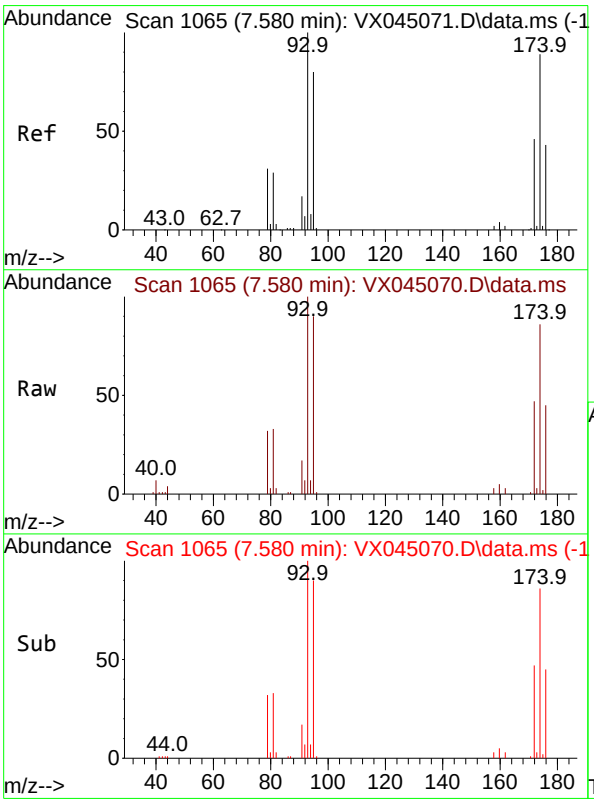
Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

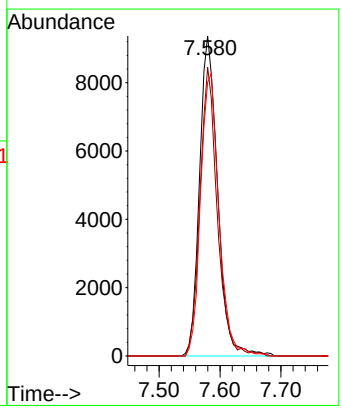
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

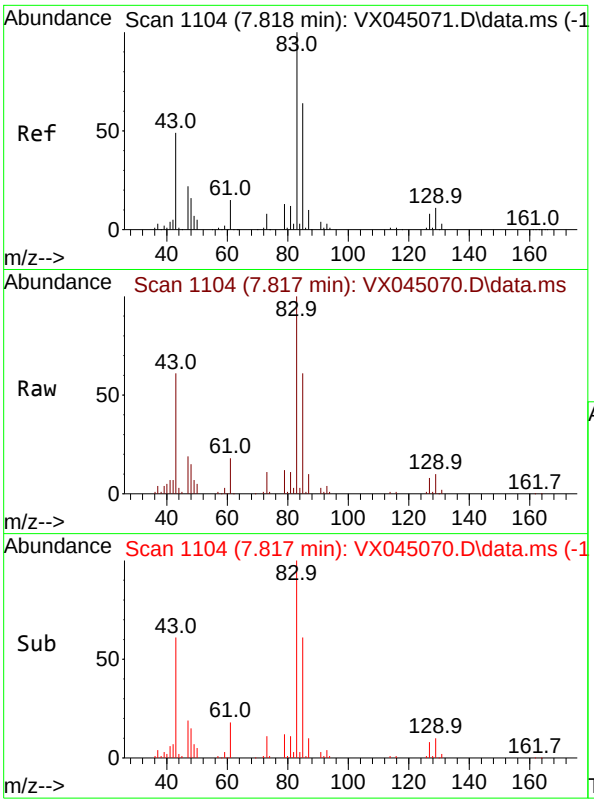


#46
Dibromomethane
Concen: 21.357 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 93 Resp: 19323

Ion	Ratio	Lower	Upper
93	100		
95	86.4	65.8	98.8
174	89.6	72.2	108.2

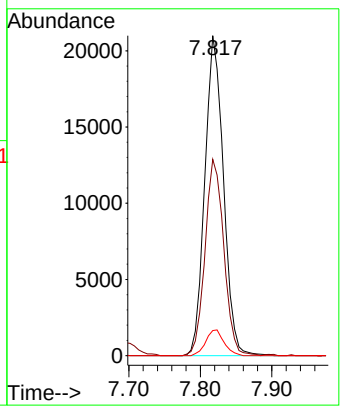




#47
Bromodichloromethane
Concen: 21.732 ug/l
RT: 7.817 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 3803

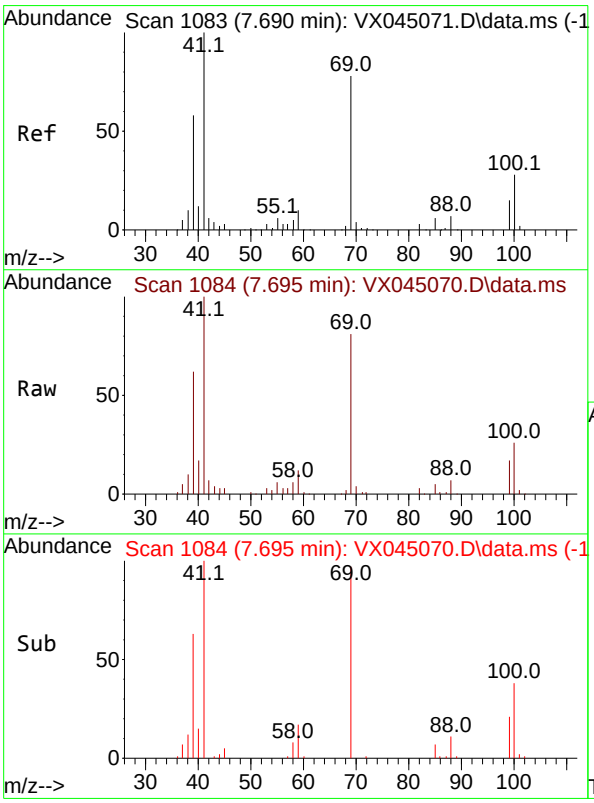
Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.1	76.7
127	7.8	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

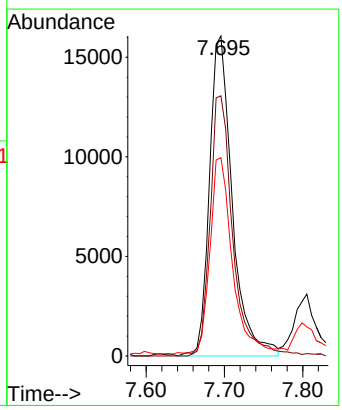
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

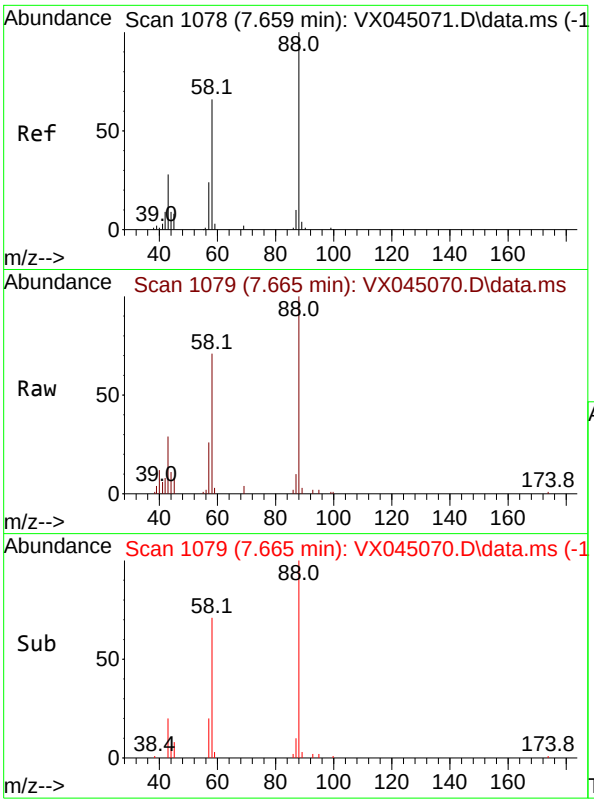


#48
Methyl methacrylate
Concen: 22.757 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 32627

Ion	Ratio	Lower	Upper
41	100		
69	81.2	63.0	94.6
39	59.8	47.5	71.3

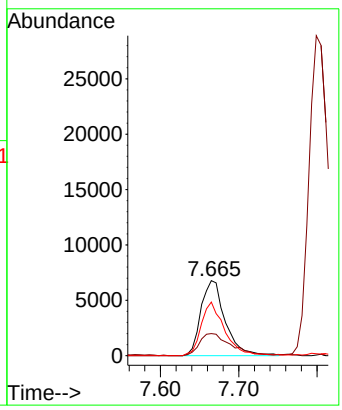




#49
1,4-Dioxane
Concen: 479.170 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 88 Resp: 1460

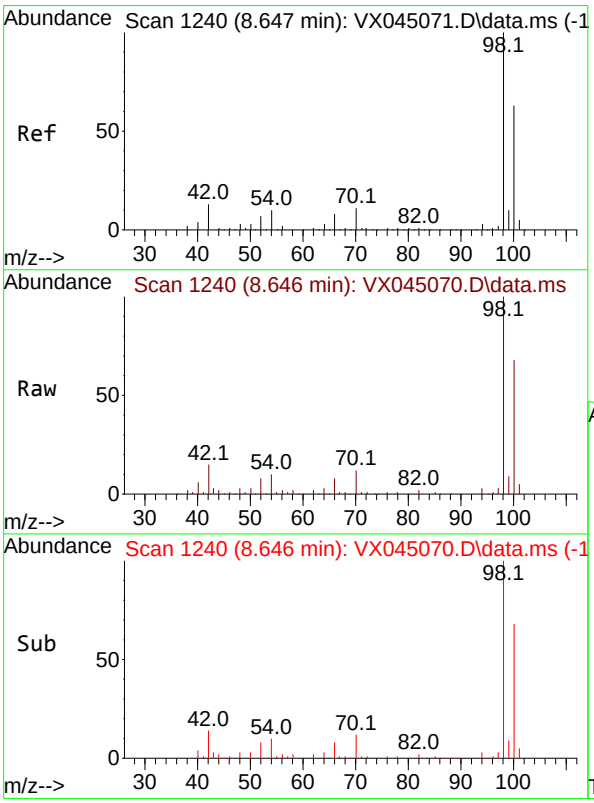
Ion	Ratio	Lower	Upper
88	100		
43	38.7	28.7	43.1
58	68.3	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

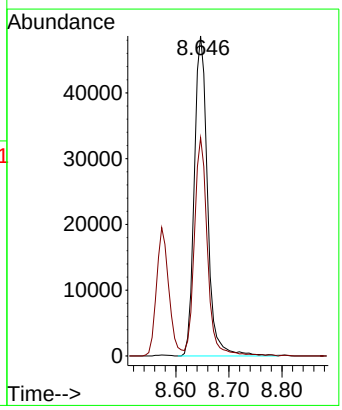
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

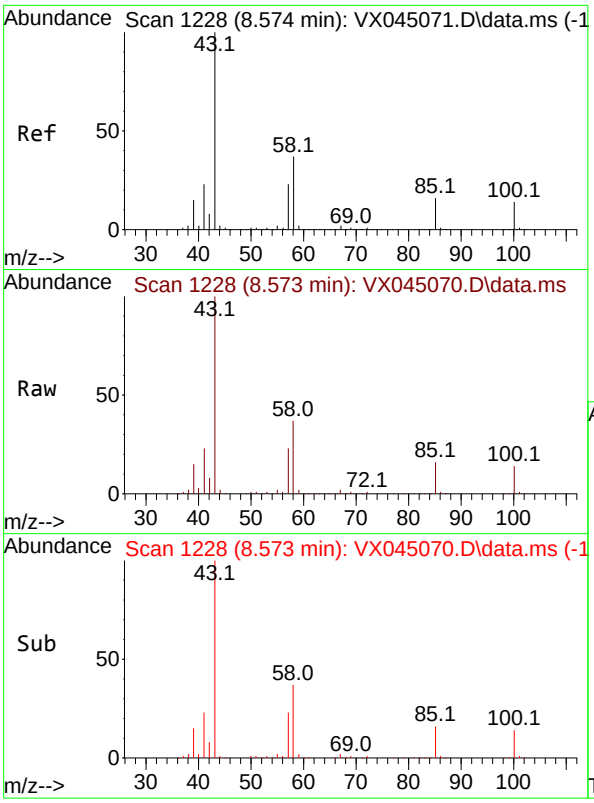


#50
Toluene-d8
Concen: 19.469 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 98 Resp: 84516

Ion	Ratio	Lower	Upper
98	100		
100	67.2	52.0	78.0

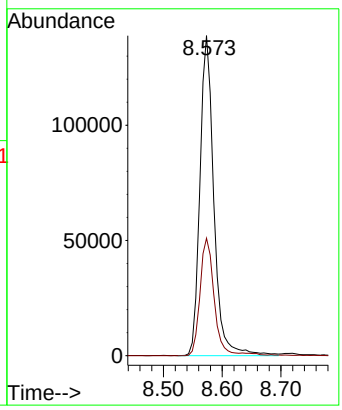




#51
4-Methyl-2-Pentanone
Concen: 124.081 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 22961

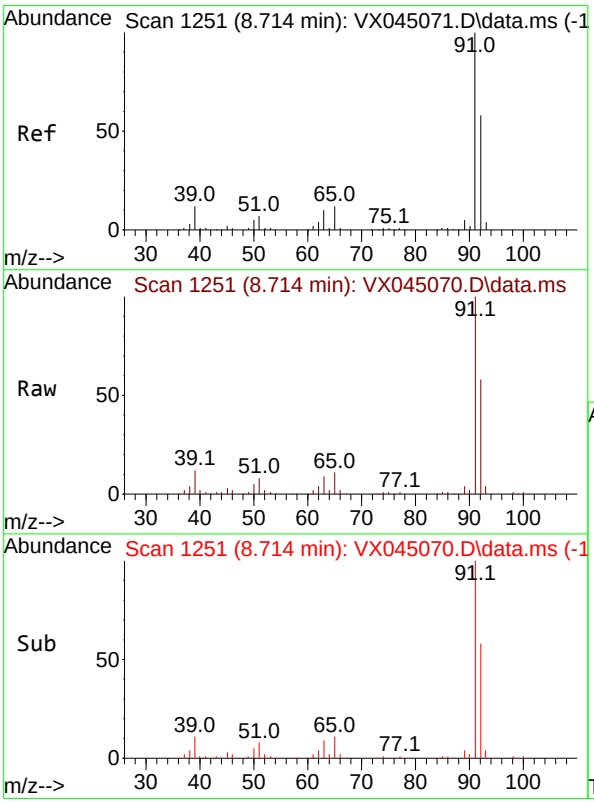
Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

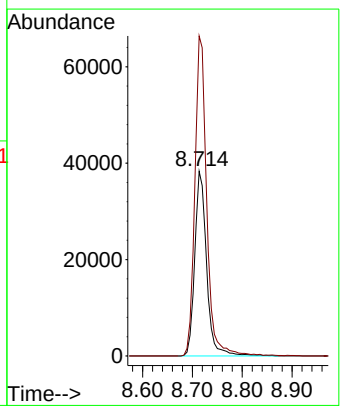
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

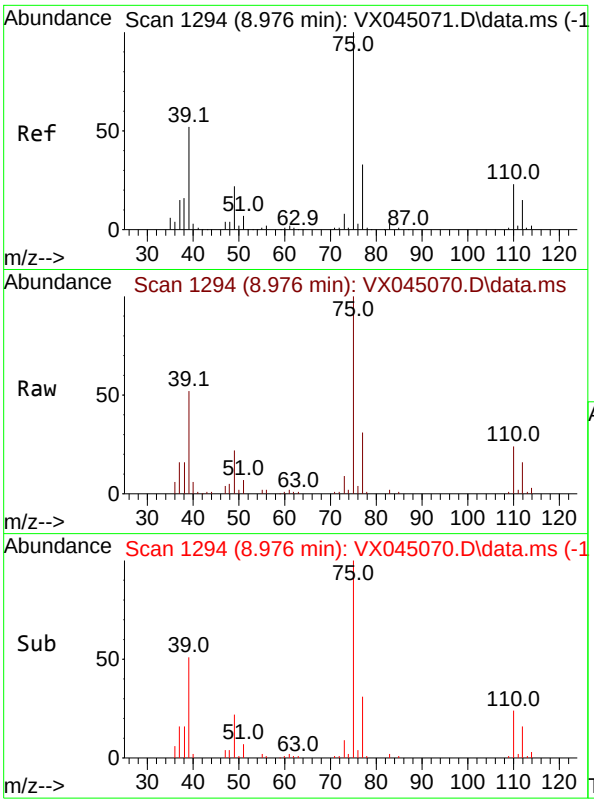


#52
Toluene
Concen: 20.463 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 92 Resp: 63326

Ion	Ratio	Lower	Upper
92	100		
91	173.7	138.9	208.3

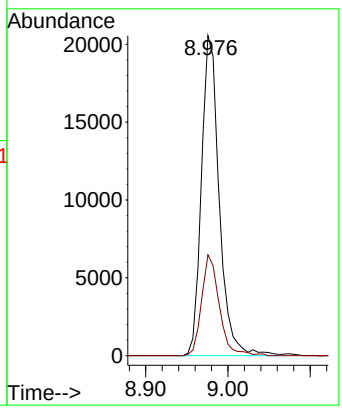




#53
t-1,3-Dichloropropene
Concen: 17.871 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 3091

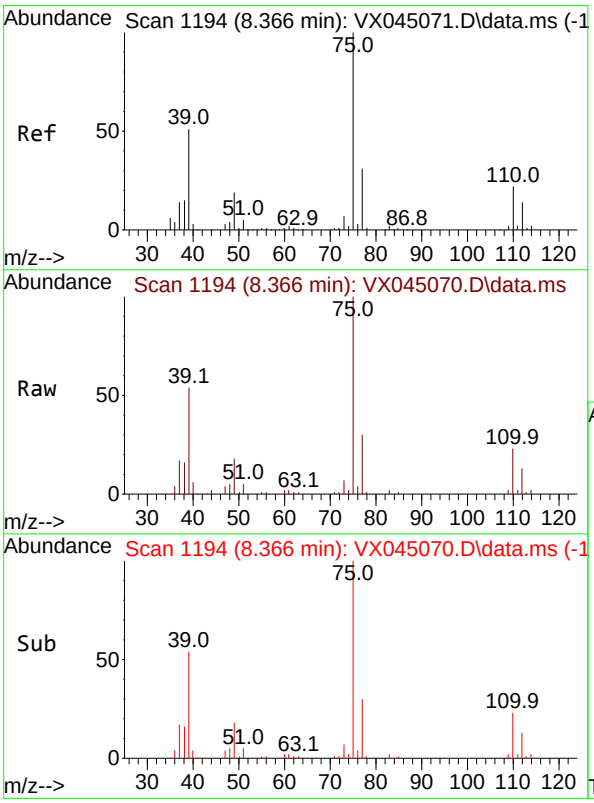
Ion	Ratio	Lower	Upper
75	100		
77	31.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

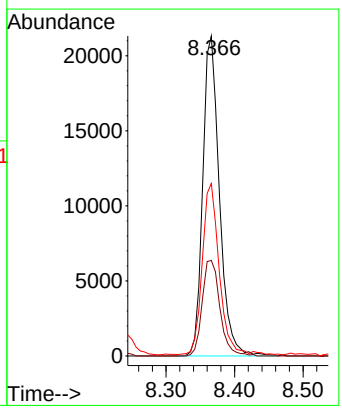
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

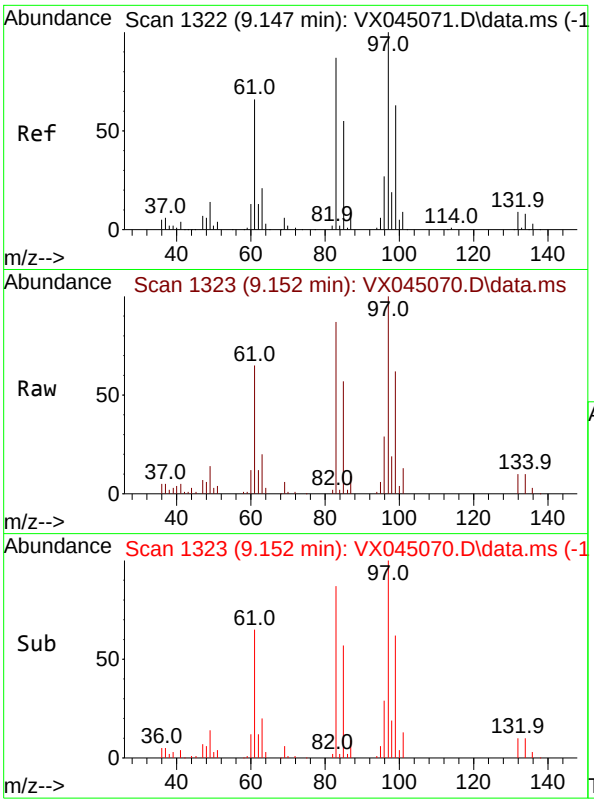


#54
cis-1,3-Dichloropropene
Concen: 18.675 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 36118

Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.7	37.1
39	53.5	40.7	61.1

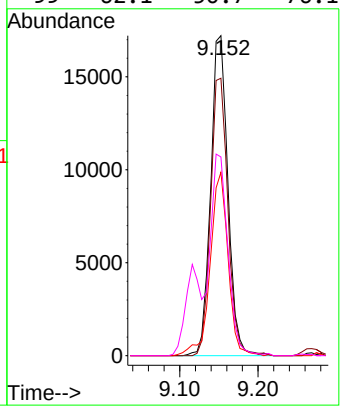




#55
1,1,2-Trichloroethane
Concen: 21.992 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 97 Resp: 2635

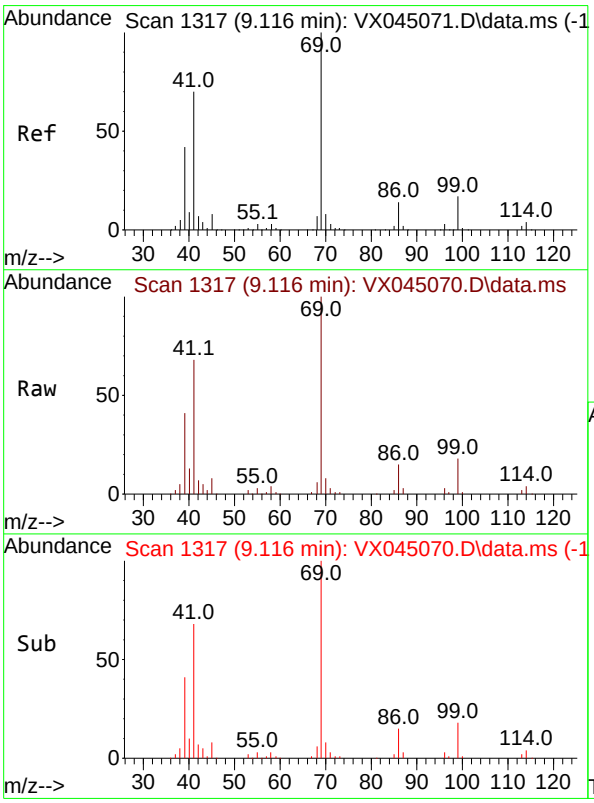
Ion	Ratio	Lower	Upper
97	100		
83	86.7	69.4	104.2
85	57.3	44.1	66.1
99	62.1	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

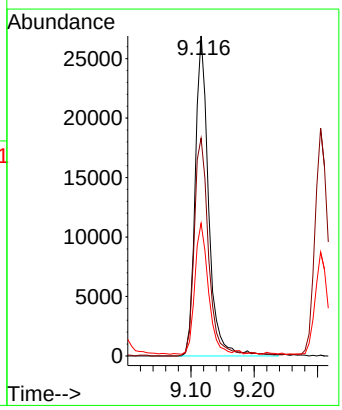
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

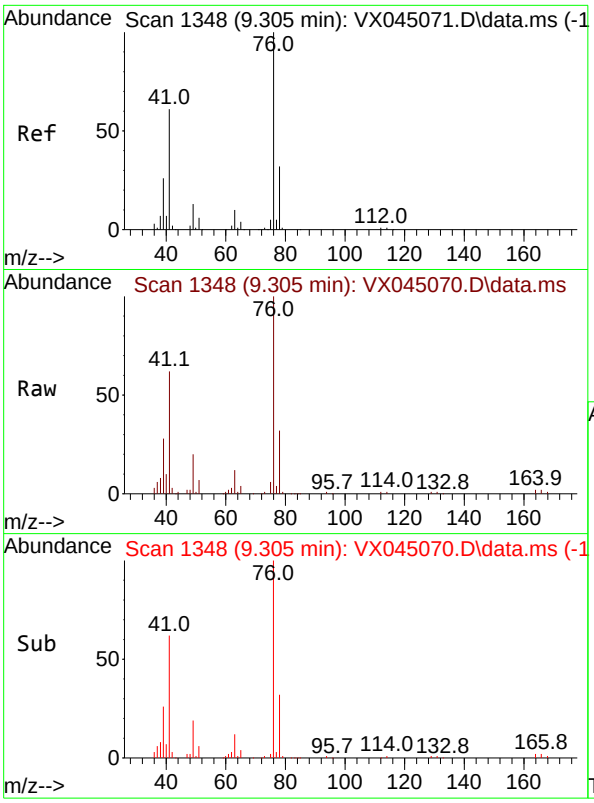


#56
Ethyl methacrylate
Concen: 20.791 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 69 Resp: 39850

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.0	85.4
39	40.6	34.2	51.4

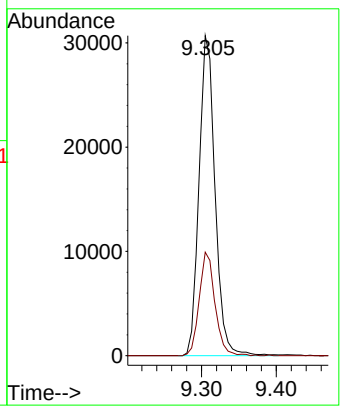




#57
1,3-Dichloropropane
Concen: 21.836 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 76 Resp: 4564

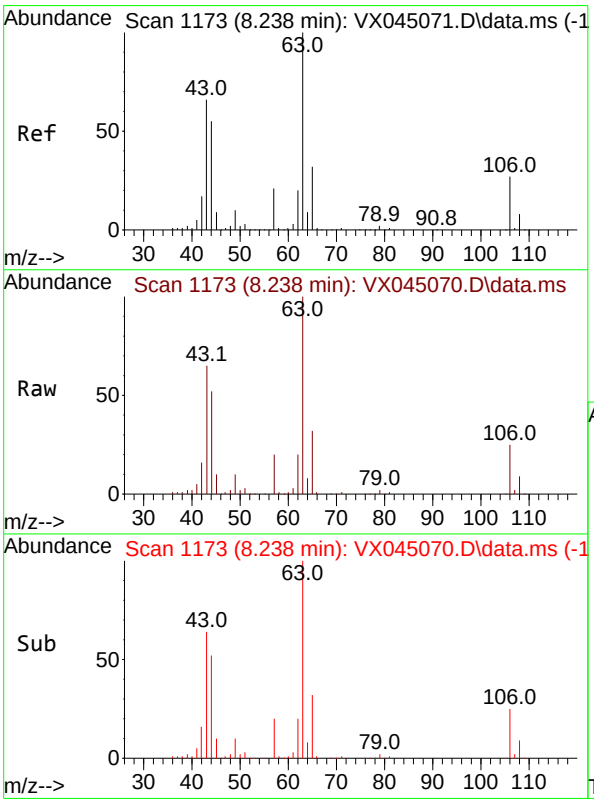
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

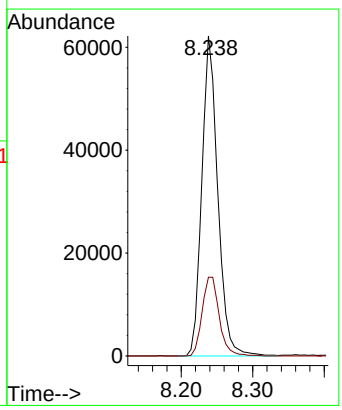
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

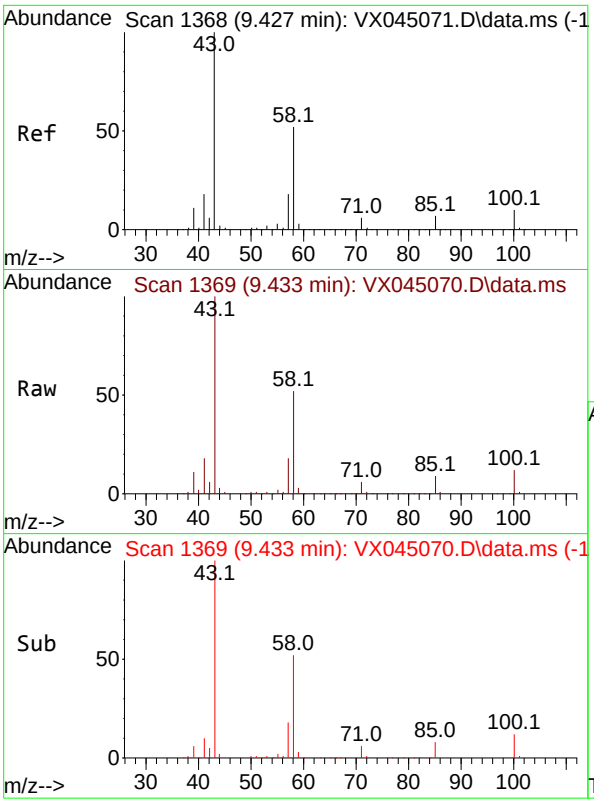


#58
2-Chloroethyl Vinyl ether
Concen: 102.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 96311

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3

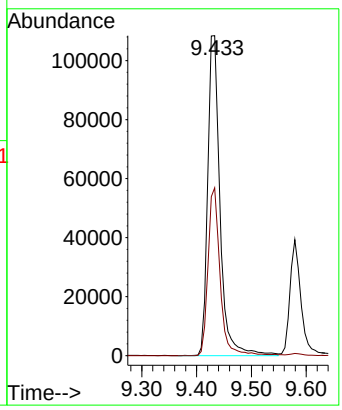




#59
2-Hexanone
Concen: 126.428 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 16876

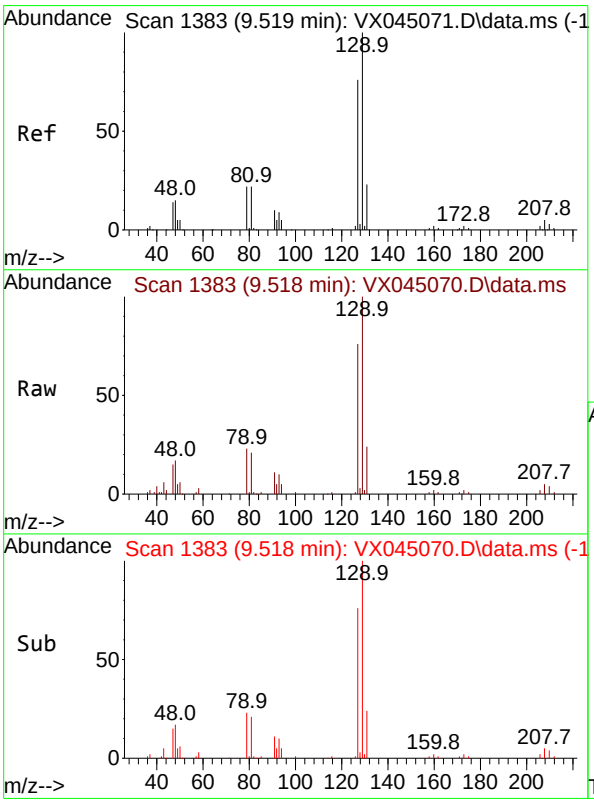
Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.9	77.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

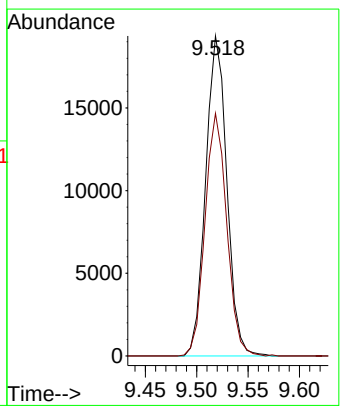
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

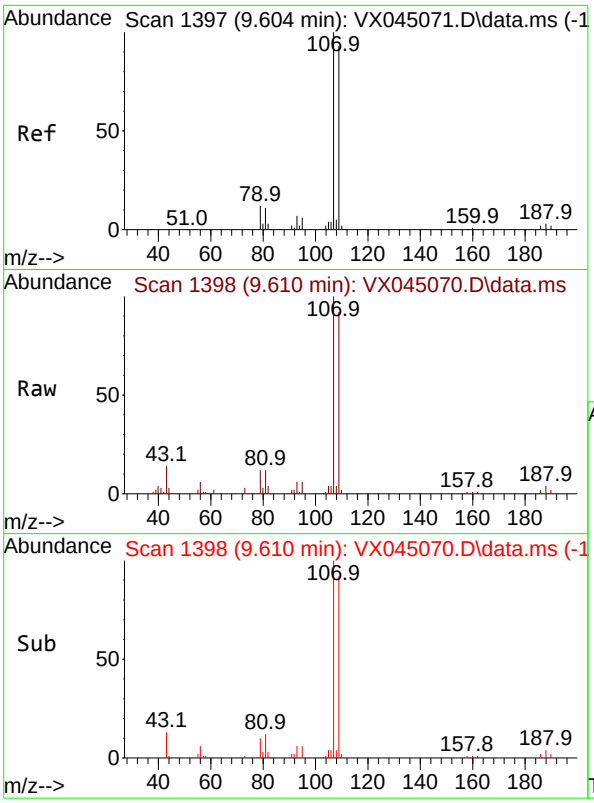


#60
Dibromochloromethane
Concen: 21.668 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:129 Resp: 27705

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5

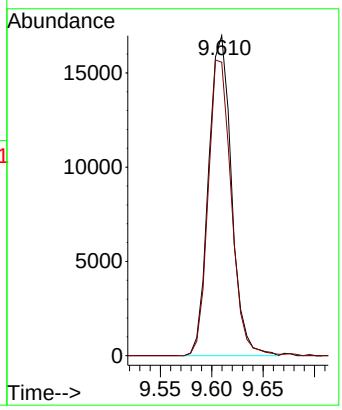




#61
1,2-Dibromoethane
Concen: 21.764 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:107 Resp: 2631

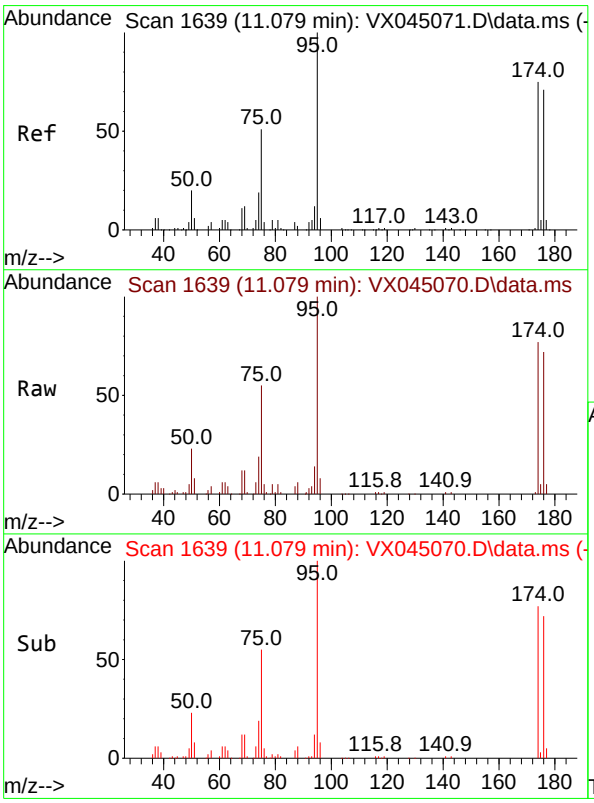
Ion	Ratio	Lower	Upper
107	100		
109	93.3	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

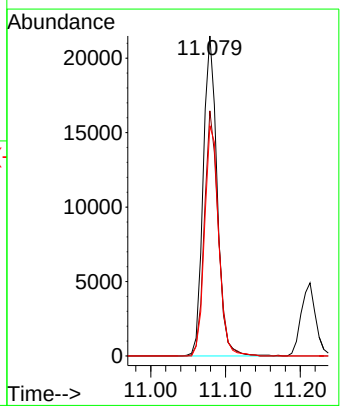
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

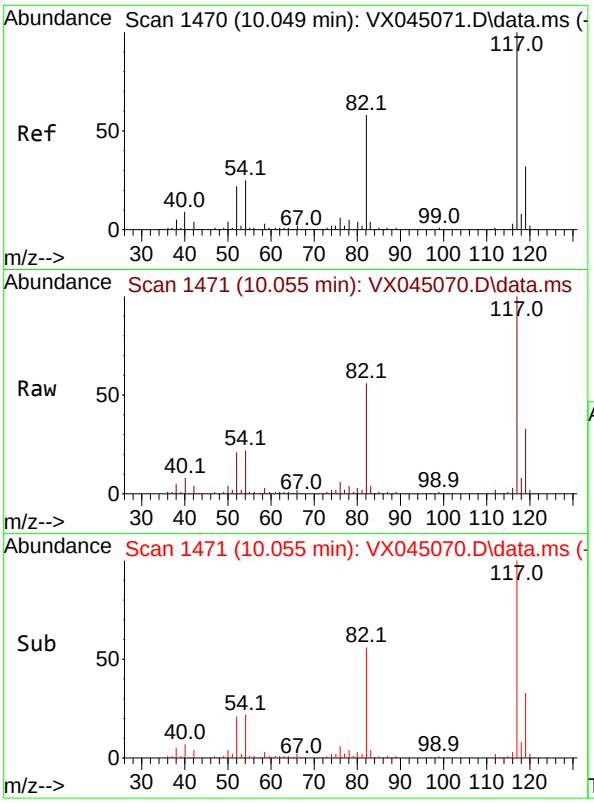


#62
4-Bromofluorobenzene
Concen: 19.215 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 95 Resp: 27856

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	148.2
176	72.8	0.0	141.4

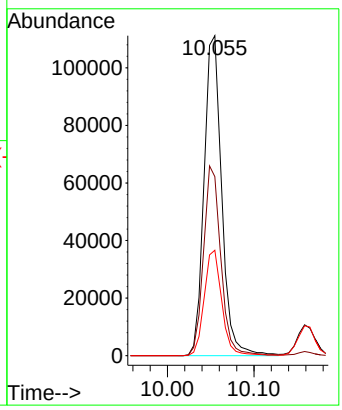




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:117 Resp: 15771

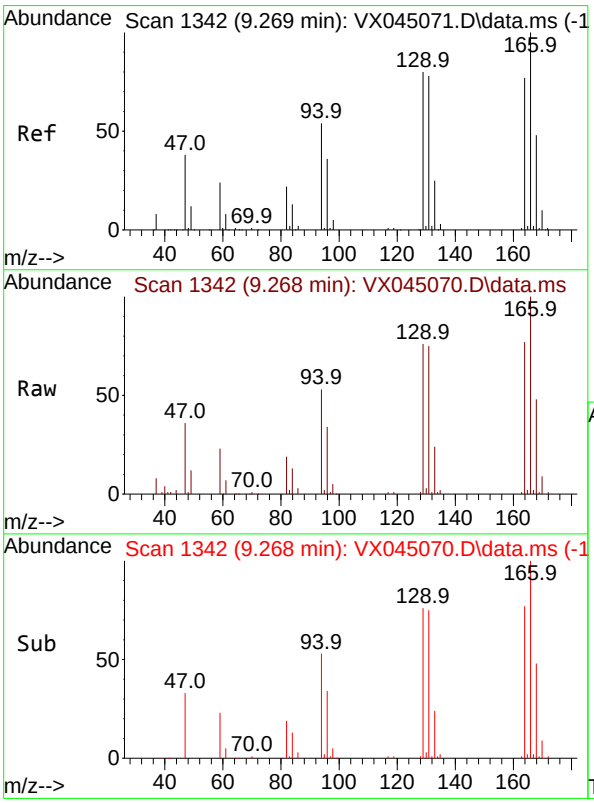
Ion	Ratio	Lower	Upper
117	100		
82	55.9	46.3	69.5
119	33.0	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

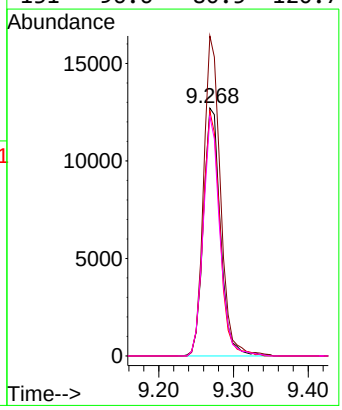
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

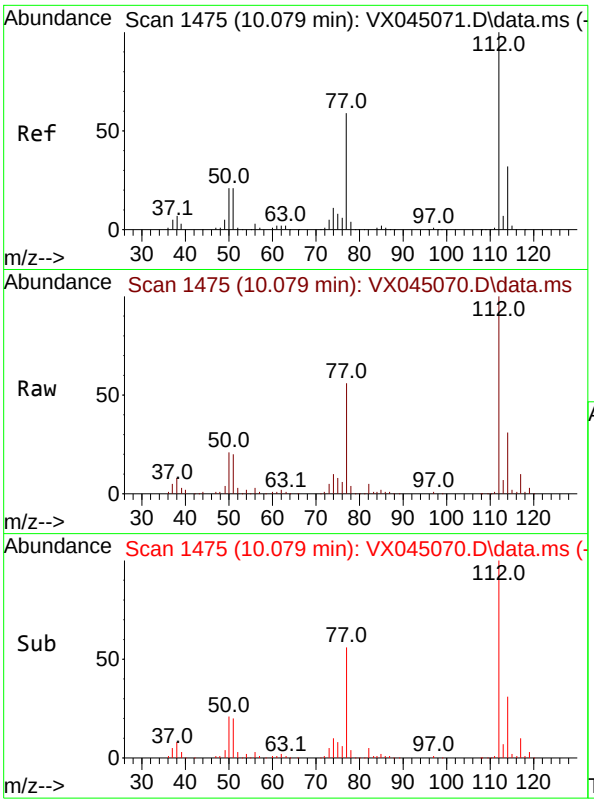


#64
Tetrachloroethene
Concen: 20.102 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:164 Resp: 20140

Ion	Ratio	Lower	Upper
164	100		
166	129.1	103.6	155.4
129	98.7	82.7	124.1
131	96.6	80.5	120.7

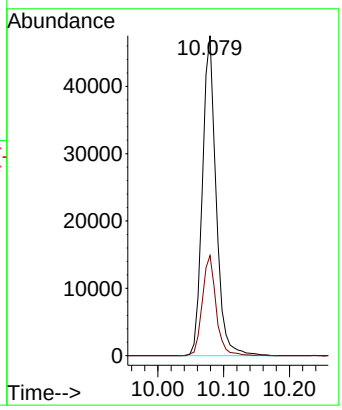




#65
Chlorobenzene
Concen: 20.316 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:112 Resp: 6877

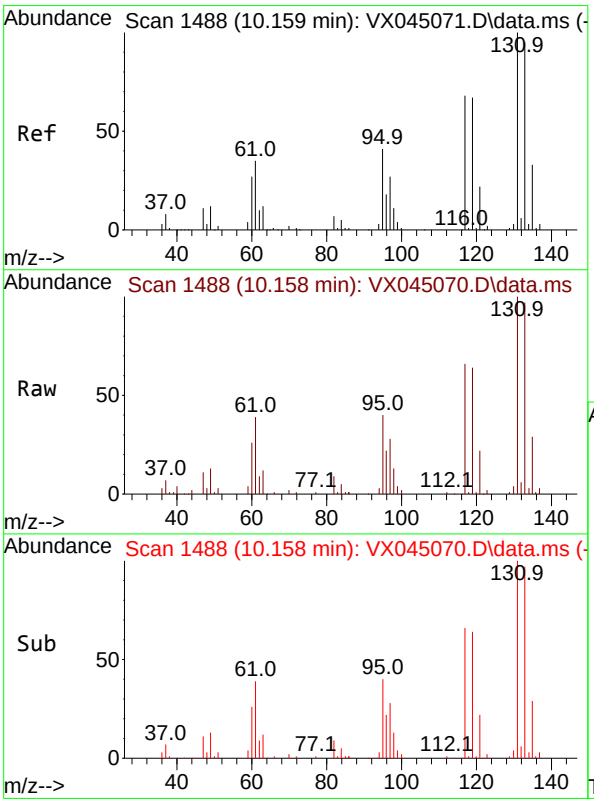
Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

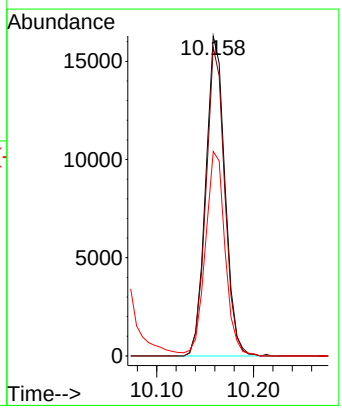
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

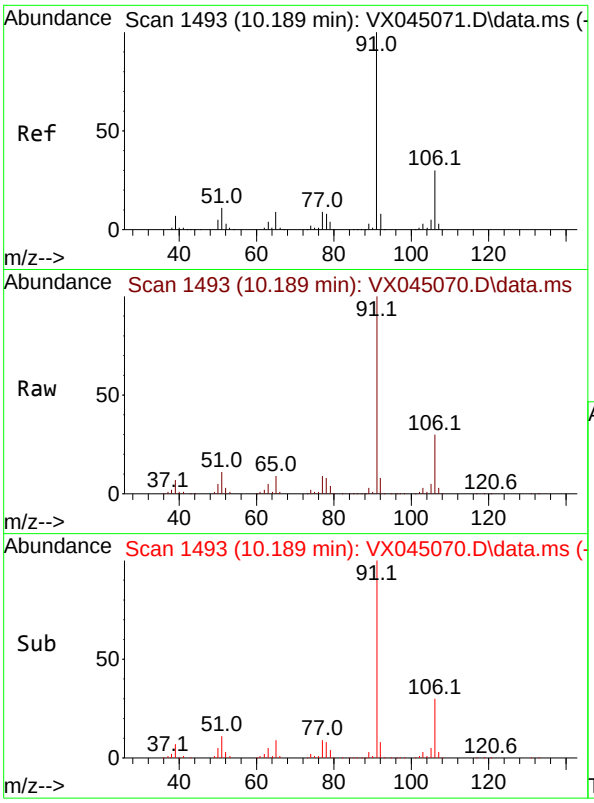


#66
1,1,1,2-Tetrachloroethane
Concen: 20.627 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:131 Resp: 22508

Ion	Ratio	Lower	Upper
131	100		
133	94.6	48.6	145.9
119	65.4	33.9	101.7

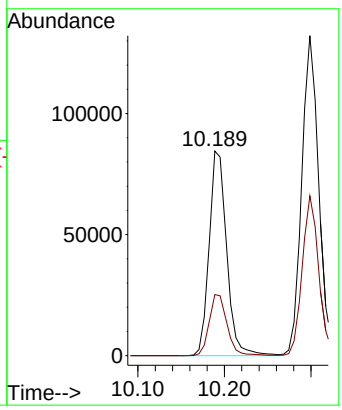




#67
Ethyl Benzene
Concen: 19.905 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 11916

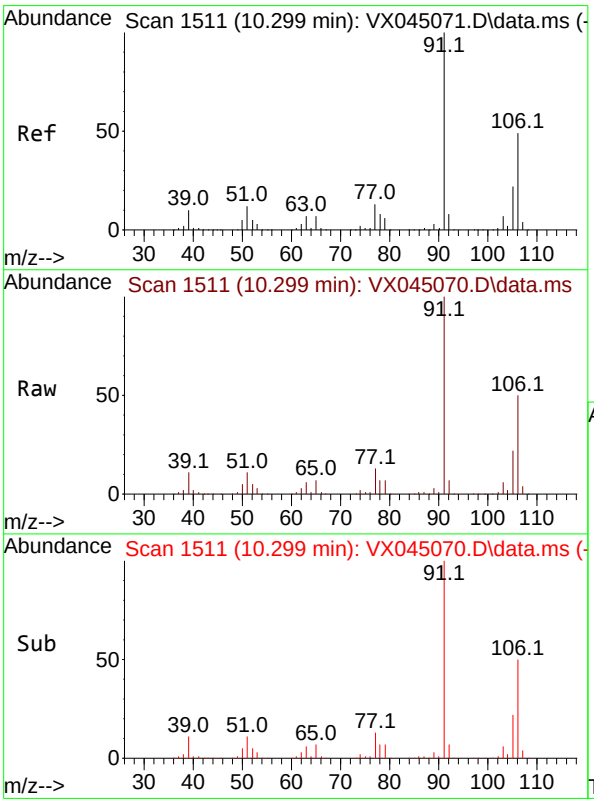
Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

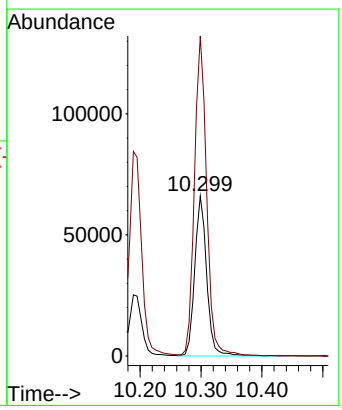
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

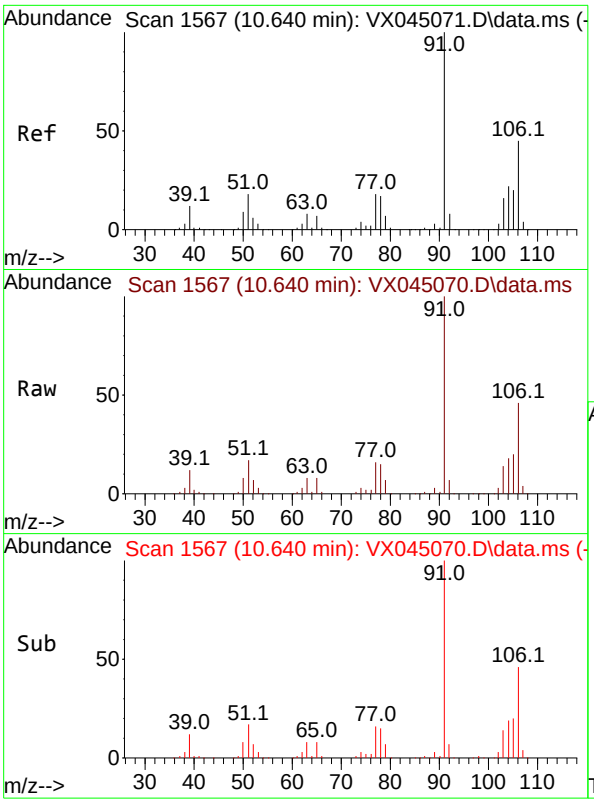


#68
m/p-Xylenes
Concen: 40.699 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:106 Resp: 89735

Ion	Ratio	Lower	Upper
106	100		
91	204.2	165.4	248.0

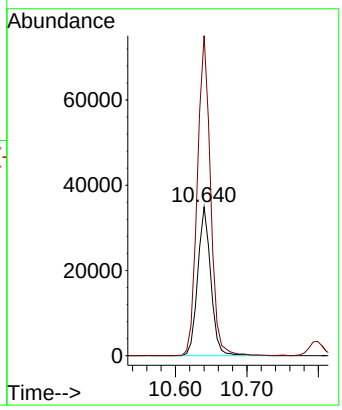




#69
o-Xylene
Concen: 20.018 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:106 Resp: 4428

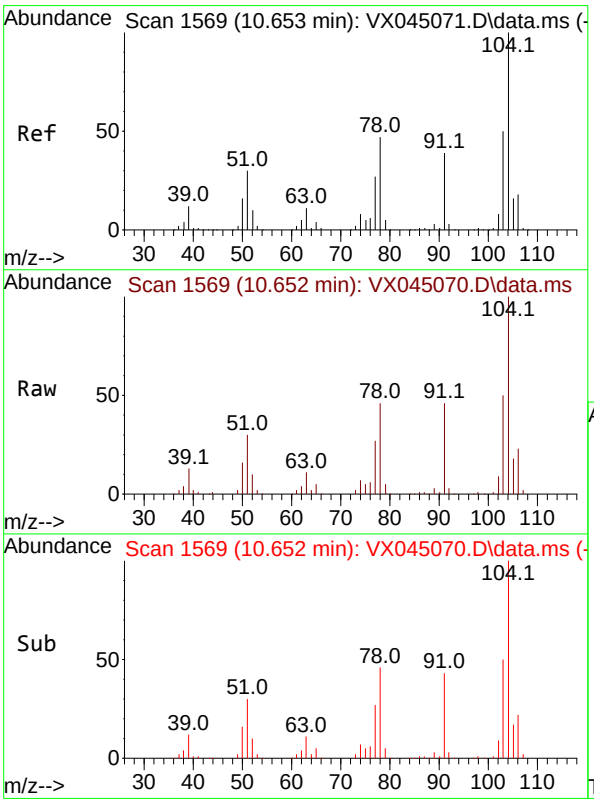
Ion	Ratio	Lower	Upper
106	100		
91	216.8	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

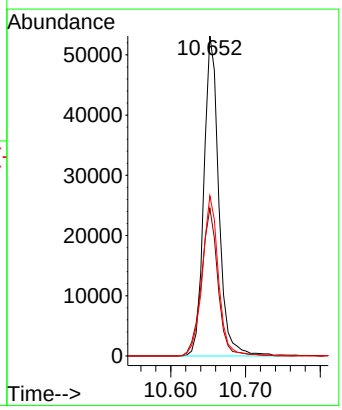
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

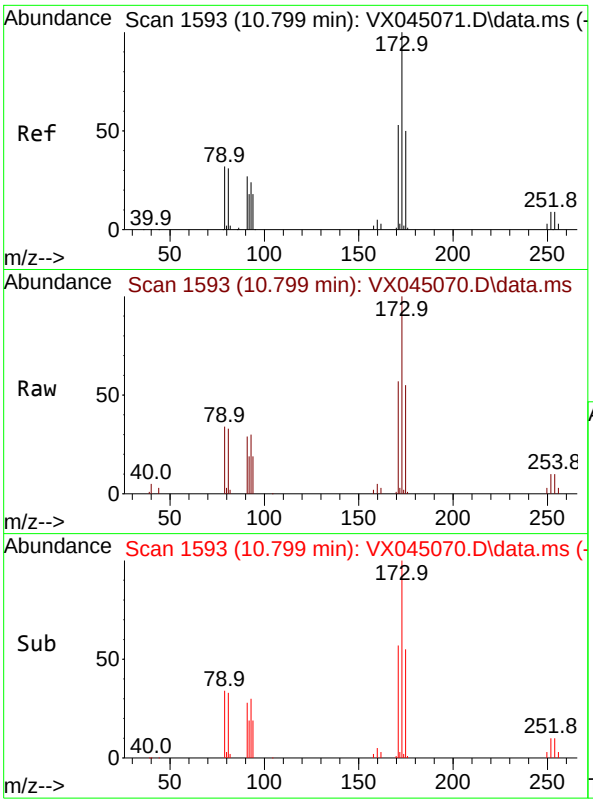


#70
Styrene
Concen: 20.767 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:104 Resp: 73832

Ion	Ratio	Lower	Upper
104	100		
78	50.9	42.2	63.4
103	54.1	43.8	65.8

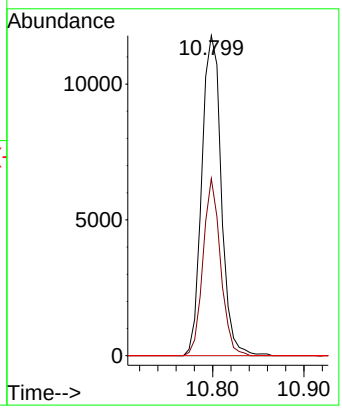




#71
Bromoform
Concen: 21.449 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:173 Resp: 1740

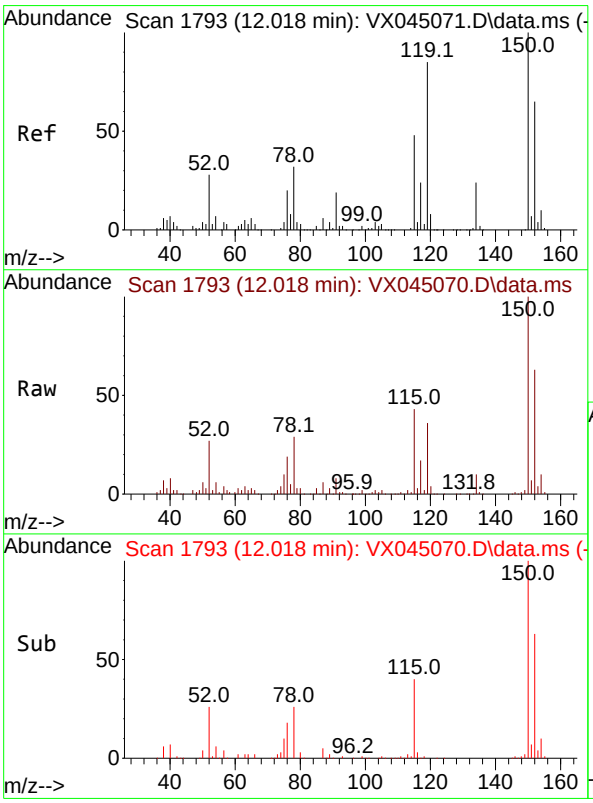
Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

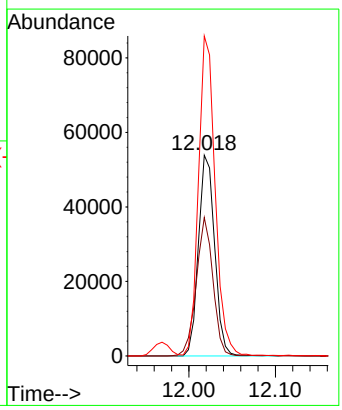
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

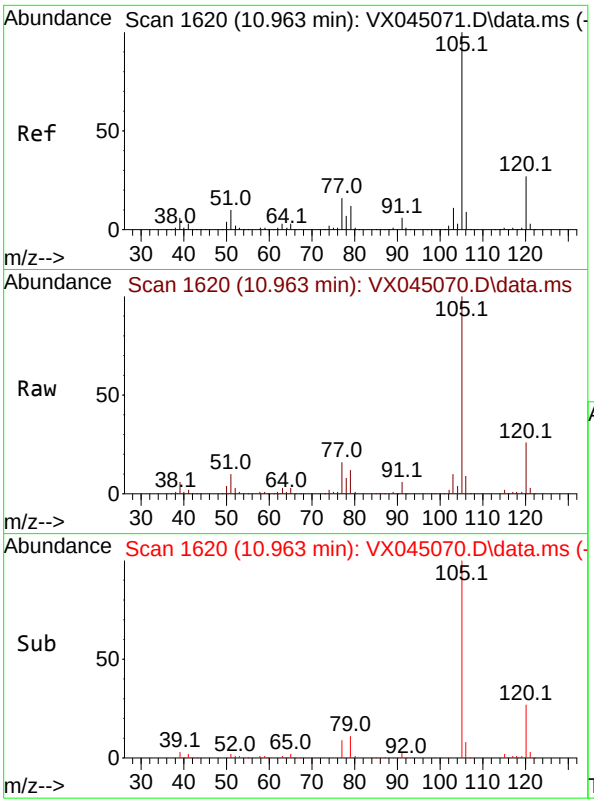


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:152 Resp: 70072

Ion	Ratio	Lower	Upper
152	100		
115	70.9	44.2	132.6
150	163.4	0.0	349.0

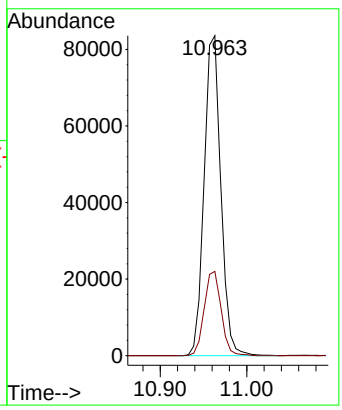




#73
Isopropylbenzene
Concen: 19.794 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 11209

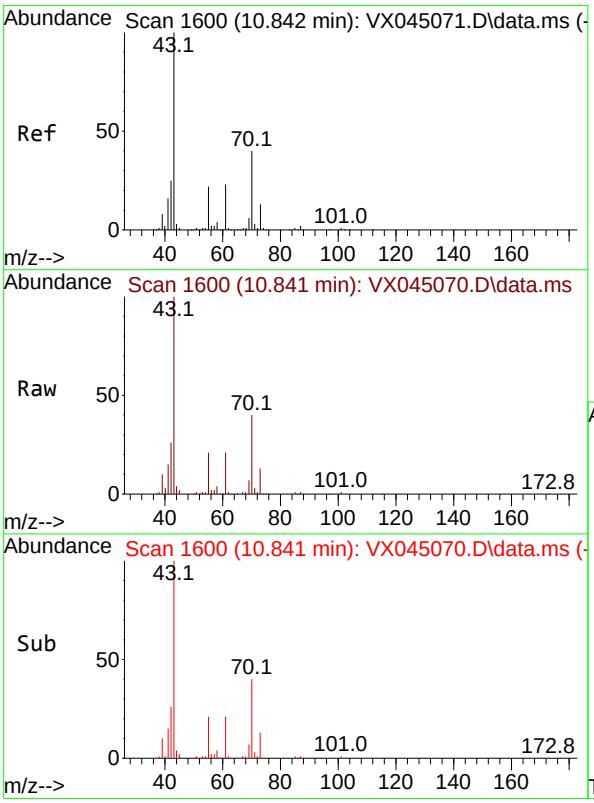
Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

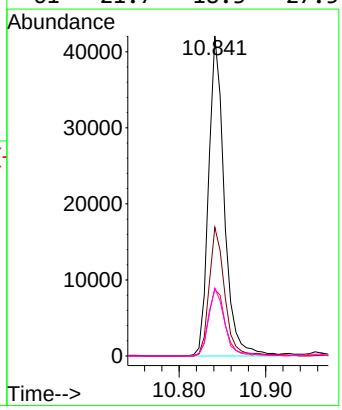
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

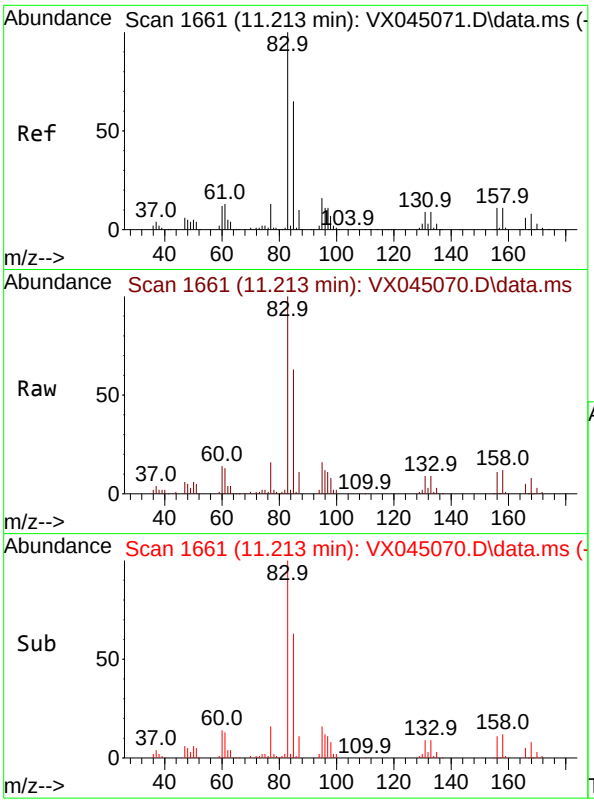


#74
N-amyl acetate
Concen: 20.606 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 52972

Ion	Ratio	Lower	Upper
43	100		
70	40.0	31.8	47.6
55	23.0	18.3	27.5
61	21.7	18.3	27.5

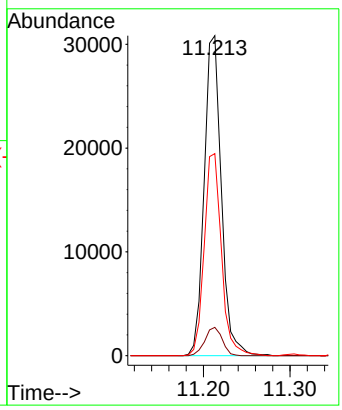




#75
1,1,2,2-Tetrachloroethane
Concen: 21.738 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 4241

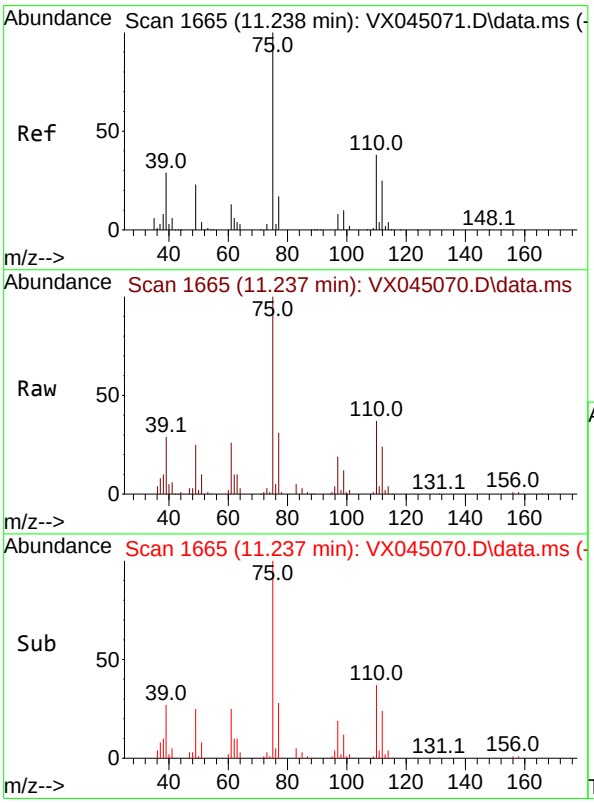
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.4
85	63.4	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

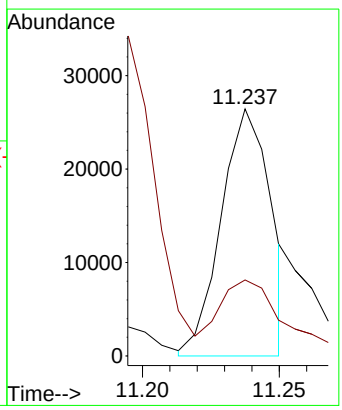
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

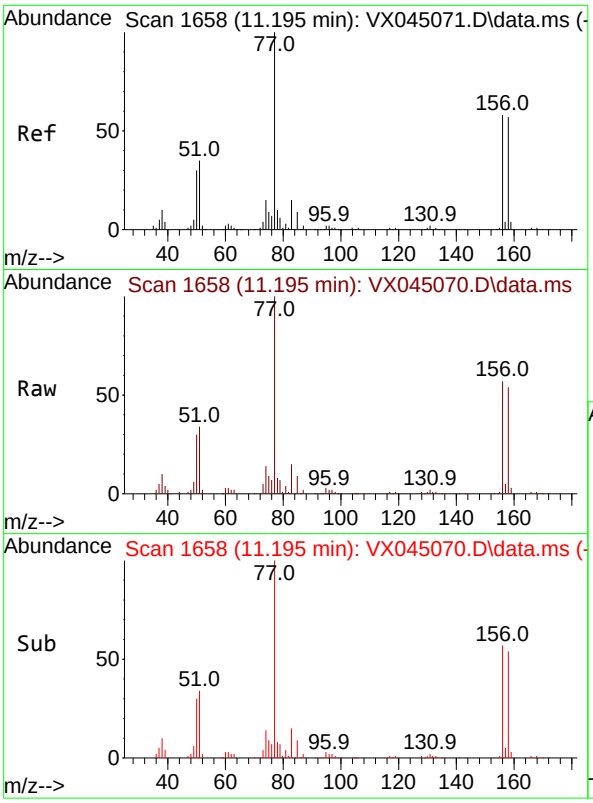


#76
1,2,3-Trichloropropane
Concen: 21.394 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 33440

Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.7	62.1

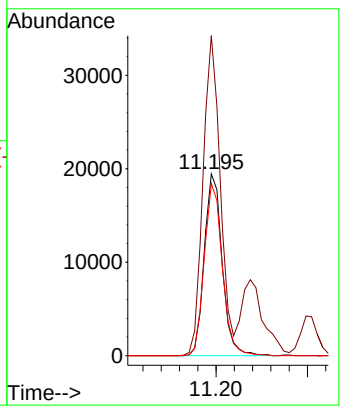




#77
Bromobenzene
Concen: 20.466 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:156 Resp: 2631

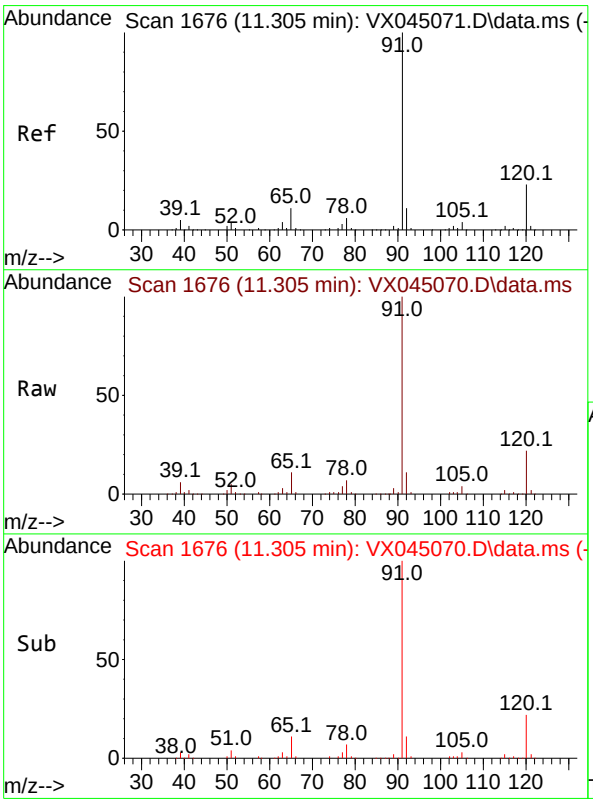
Ion	Ratio	Lower	Upper
156	100		
77	170.2	85.8	257.4
158	95.9	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

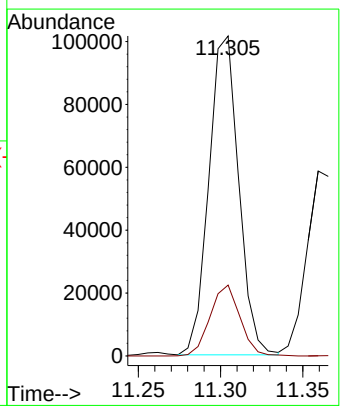
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

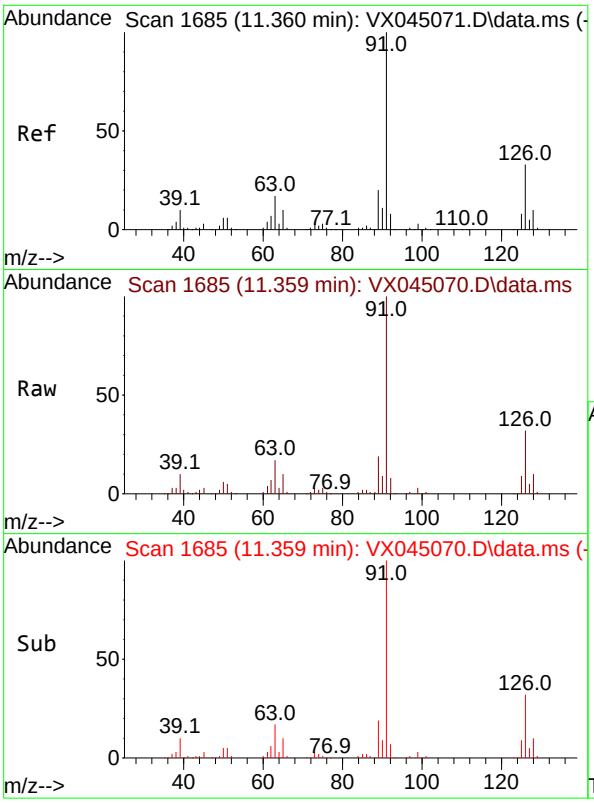


#78
n-propylbenzene
Concen: 19.641 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 128284

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.6

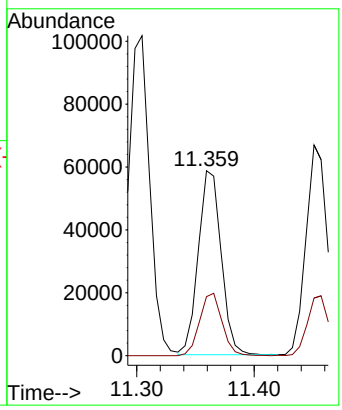




#79
2-Chlorotoluene
Concen: 19.775 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 7927

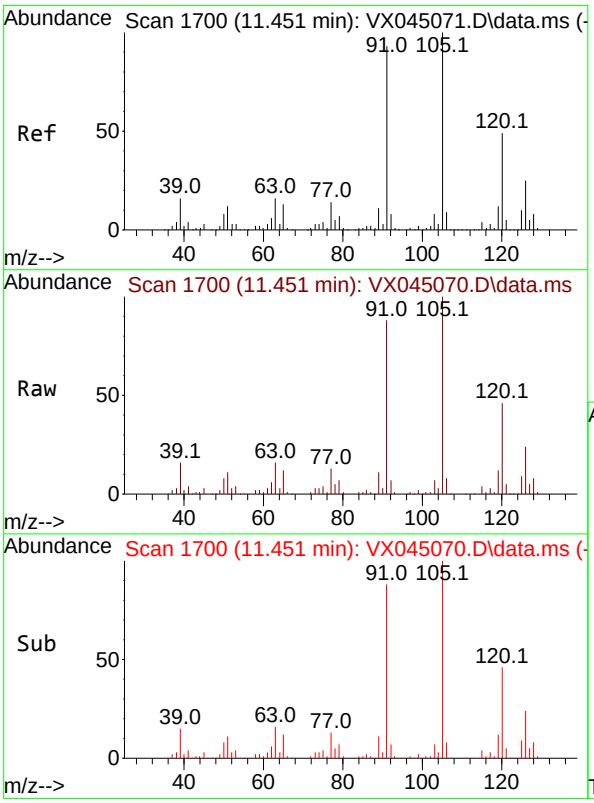
Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

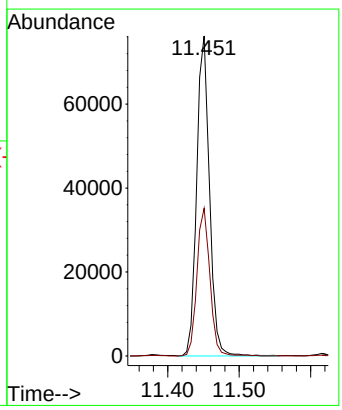
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

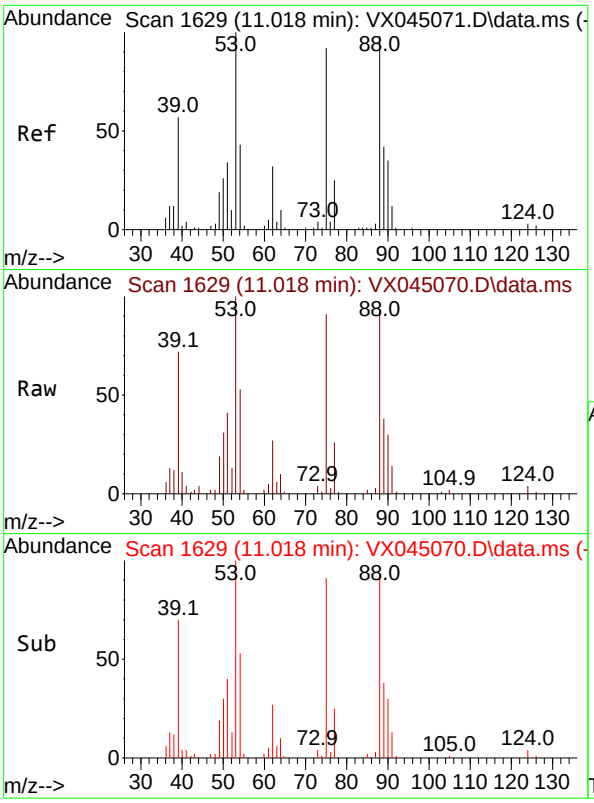


#80
1,3,5-Trimethylbenzene
Concen: 20.581 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 94545

Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 15.196 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

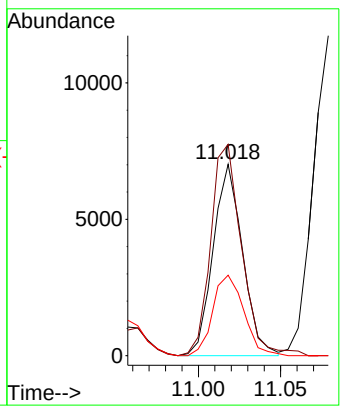
Tgt Ion: 75 Resp: 875

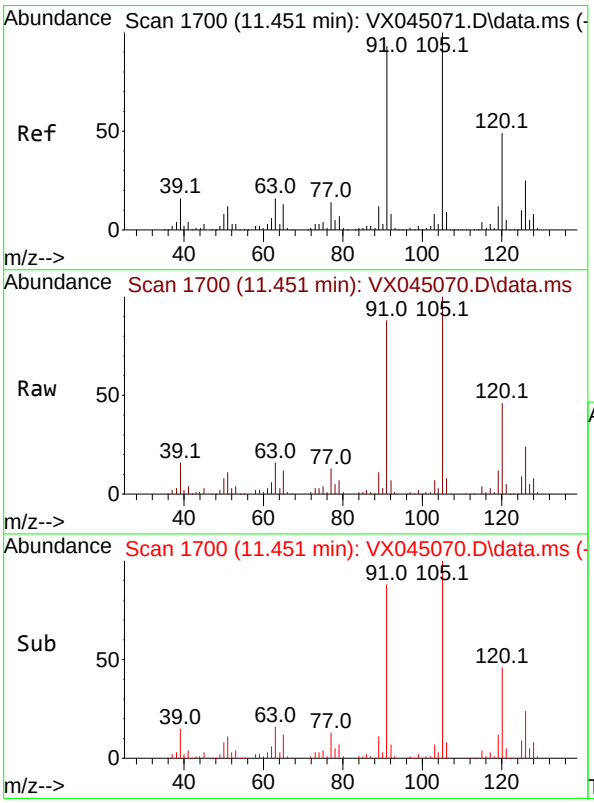
Ion	Ratio	Lower	Upper
75	100		
53	115.4	88.5	132.7
89	44.3	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

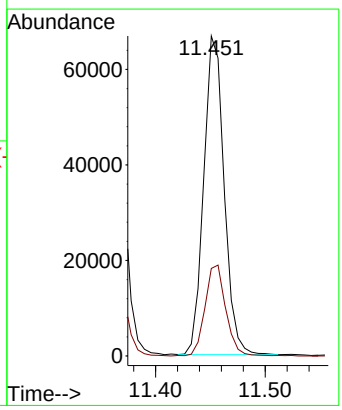


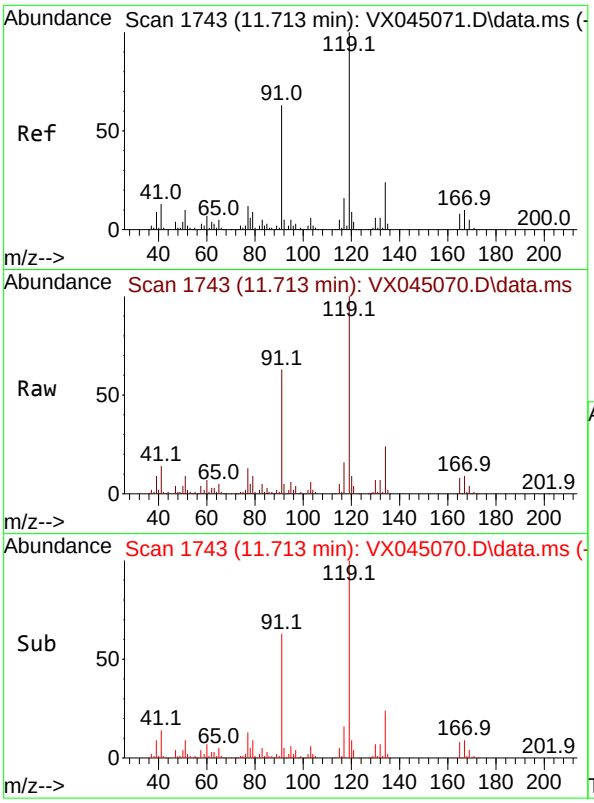


#82
4-Chlorotoluene
Concen: 19.443 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 86281

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.1	42.4

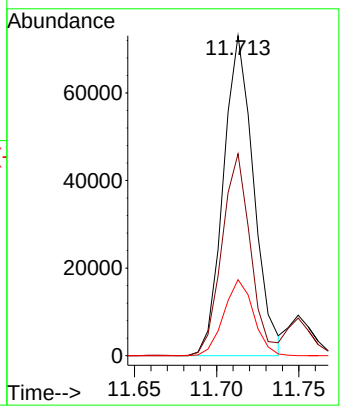




#83
tert-Butylbenzene
Concen: 20.159 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:119 Resp: 9367

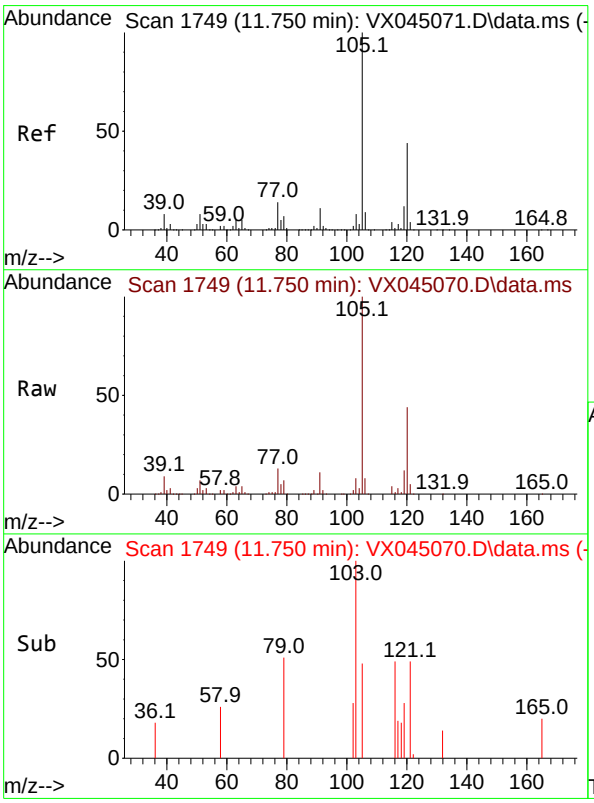
Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.7	92.1
134	23.4	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

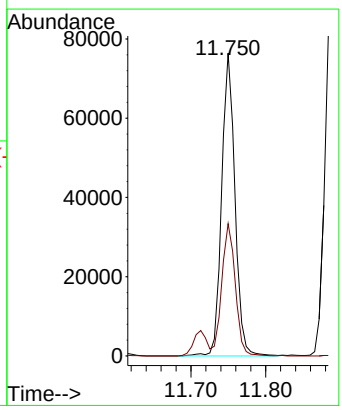
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

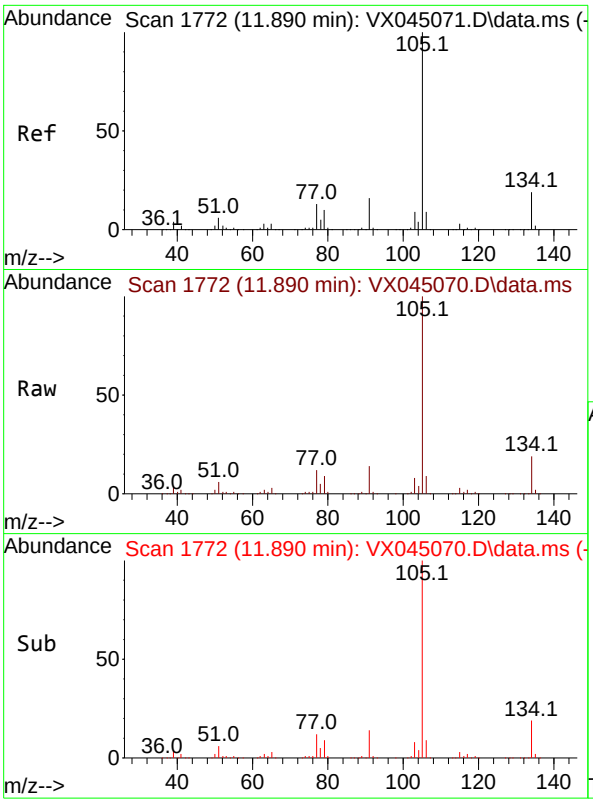


#84
1,2,4-Trimethylbenzene
Concen: 20.943 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 94734

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1

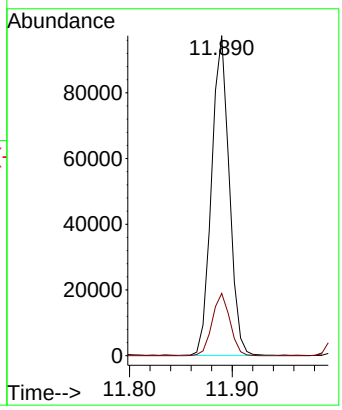




#85
sec-Butylbenzene
Concen: 20.160 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 11595

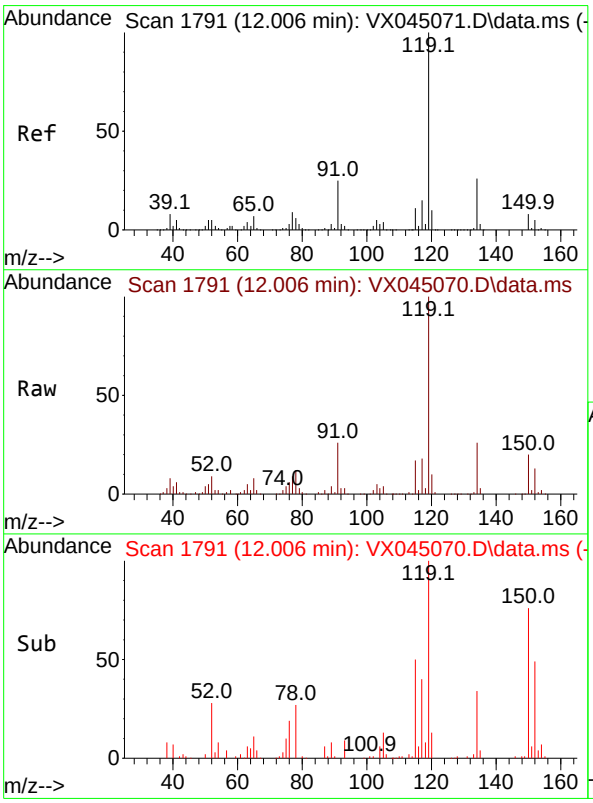
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

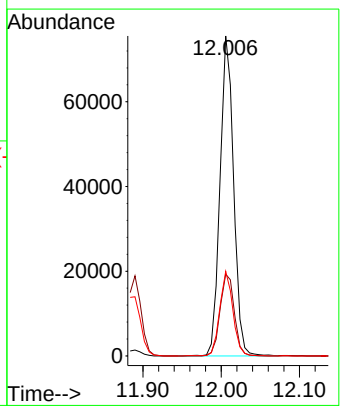
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

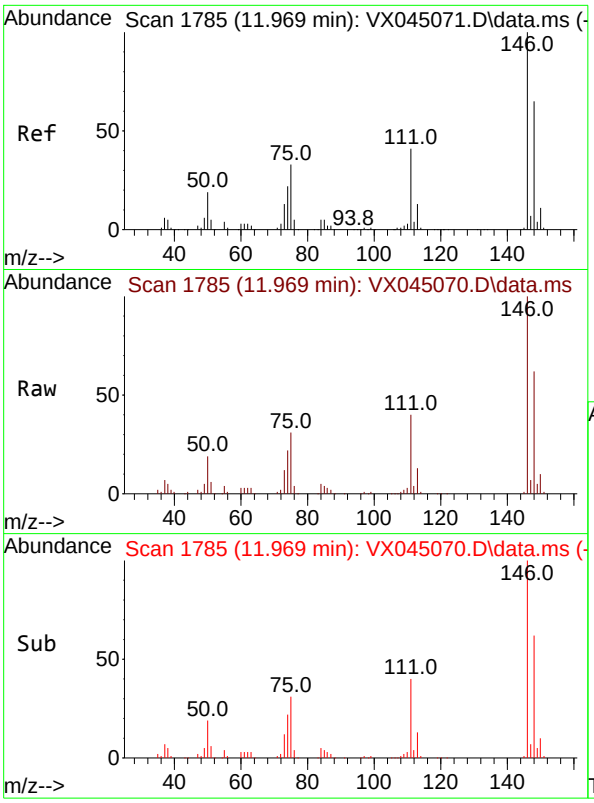


#86
p-Isopropyltoluene
Concen: 19.827 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:119 Resp: 91554

Ion	Ratio	Lower	Upper
119	100		
134	26.8	12.9	38.6
91	25.6	12.7	38.0

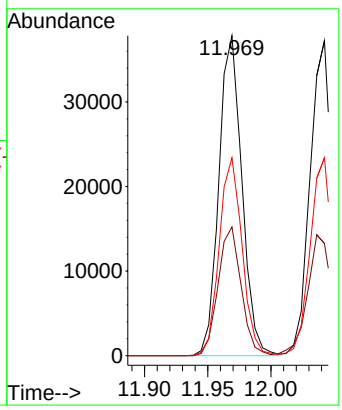




#87
1,3-Dichlorobenzene
Concen: 20.400 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:146 Resp: 4793

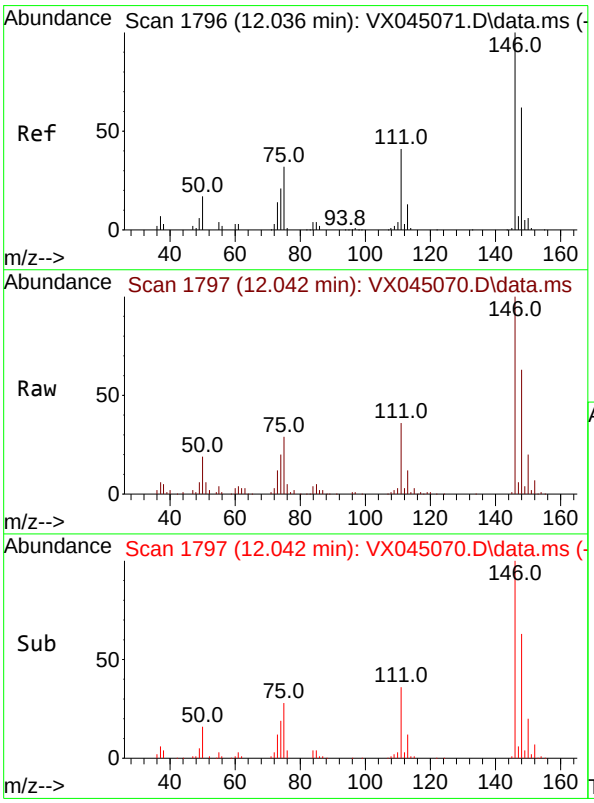
Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.1	63.4
148	61.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

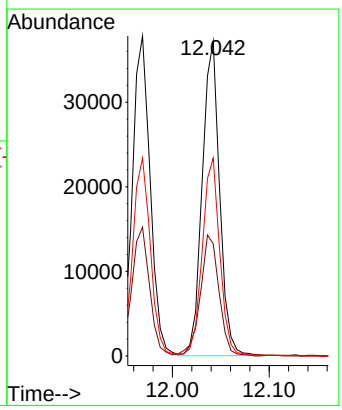
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

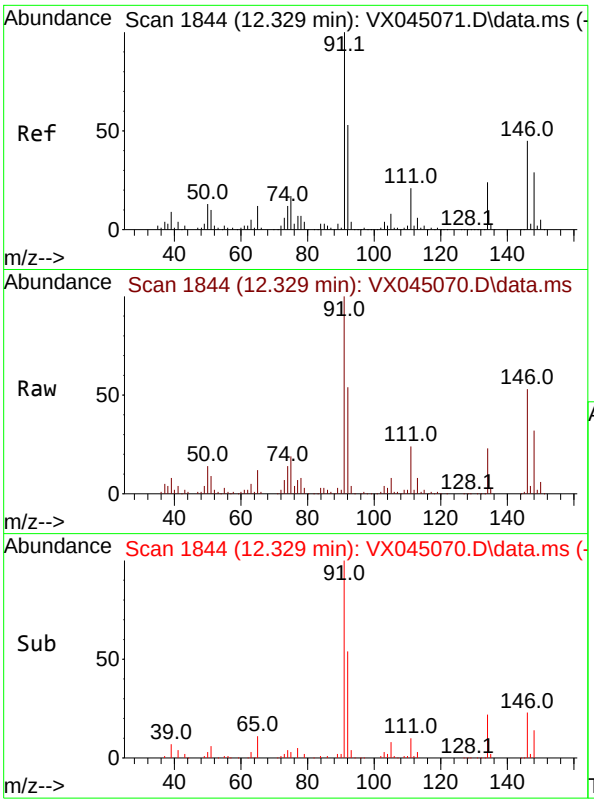


#88
1,4-Dichlorobenzene
Concen: 19.615 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:146 Resp: 46657

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.2	60.5
148	63.8	31.9	95.9

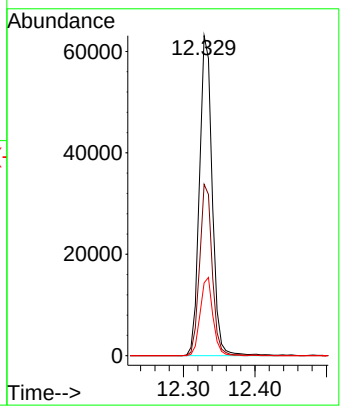




#89
n-Butylbenzene
Concen: 19.249 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 7813

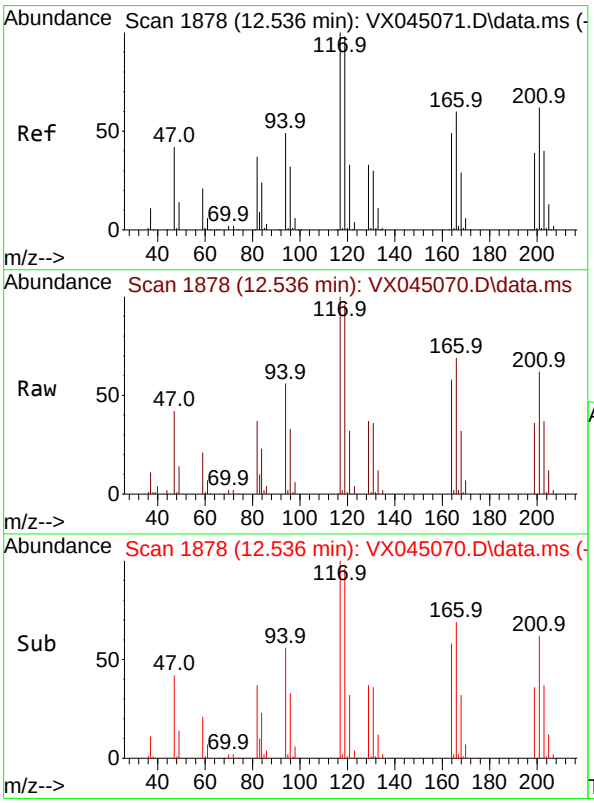
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.7	80.0
134	24.3	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

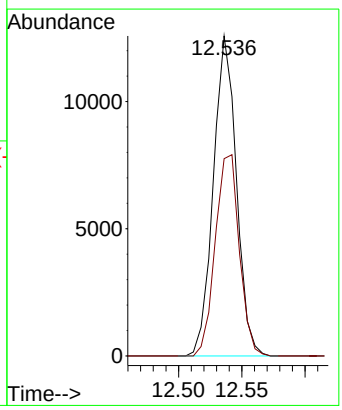
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

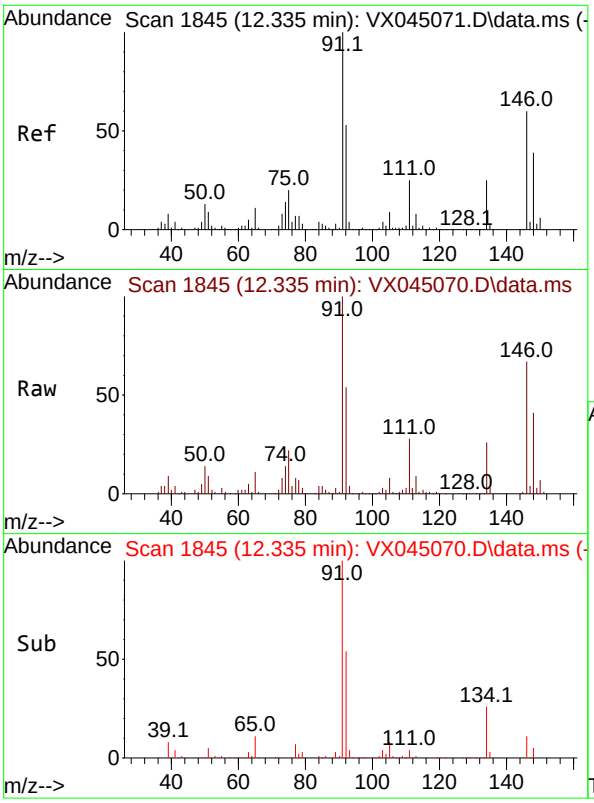


#90
Hexachloroethane
Concen: 18.483 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:117 Resp: 15919

Ion	Ratio	Lower	Upper
117	100		
201	65.6	31.9	95.9

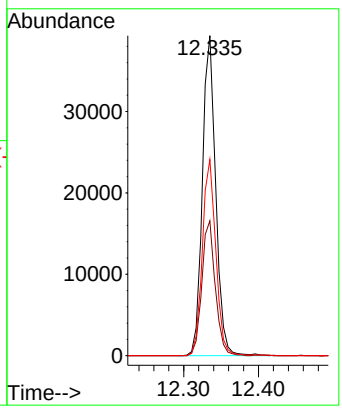




#91
1,2-Dichlorobenzene
Concen: 21.031 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:146 Resp: 4863

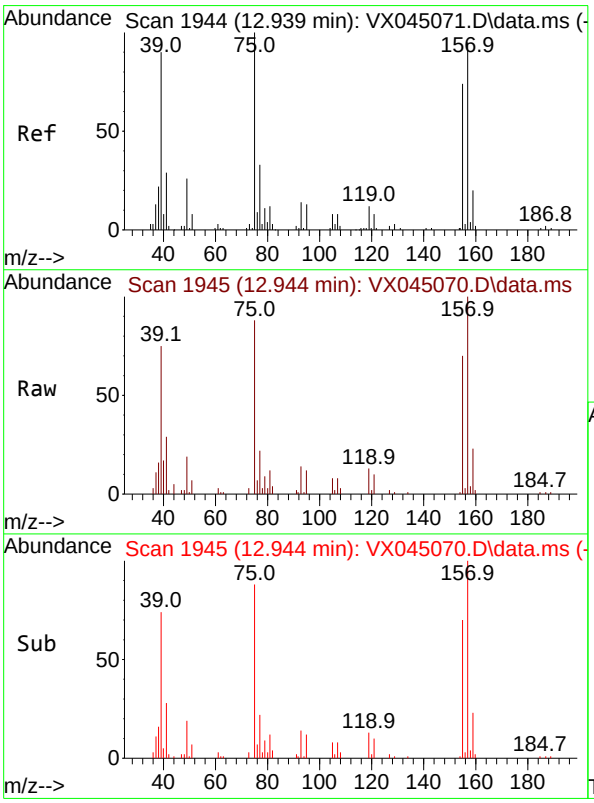
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	65.0
148	62.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

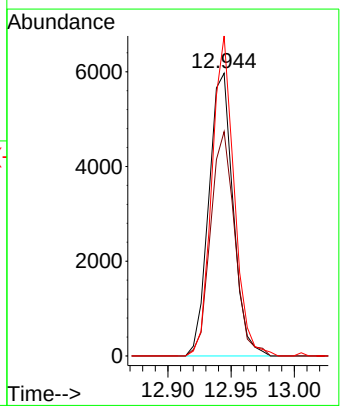
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

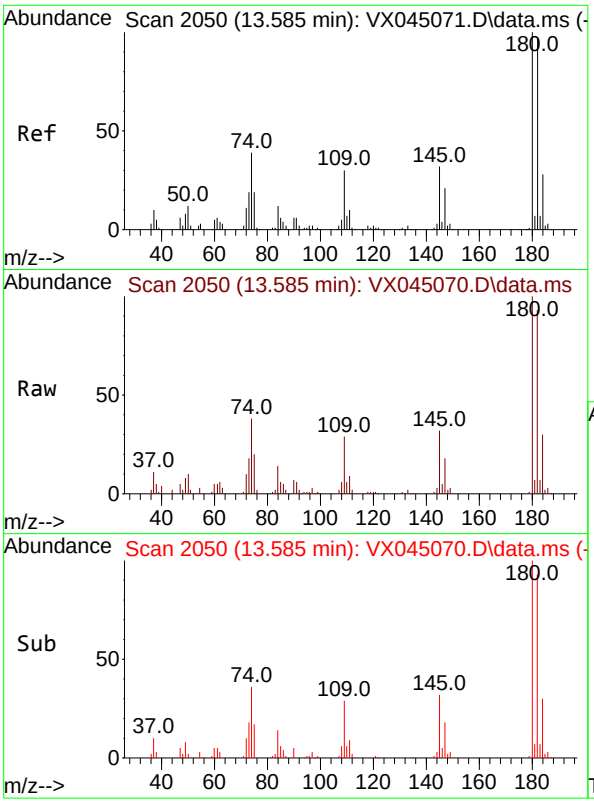


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.119 ug/l
RT: 12.944 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 7987

Ion	Ratio	Lower	Upper
75	100		
155	78.7	39.6	118.7
157	103.3	51.1	153.4

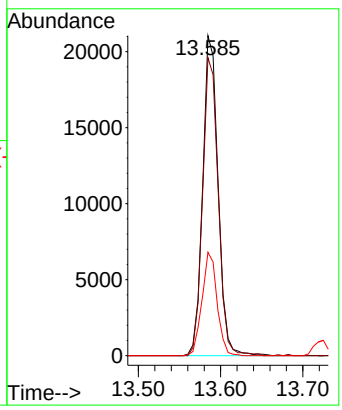




#93
1,2,4-Trichlorobenzene
Concen: 19.617 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:180 Resp: 2742

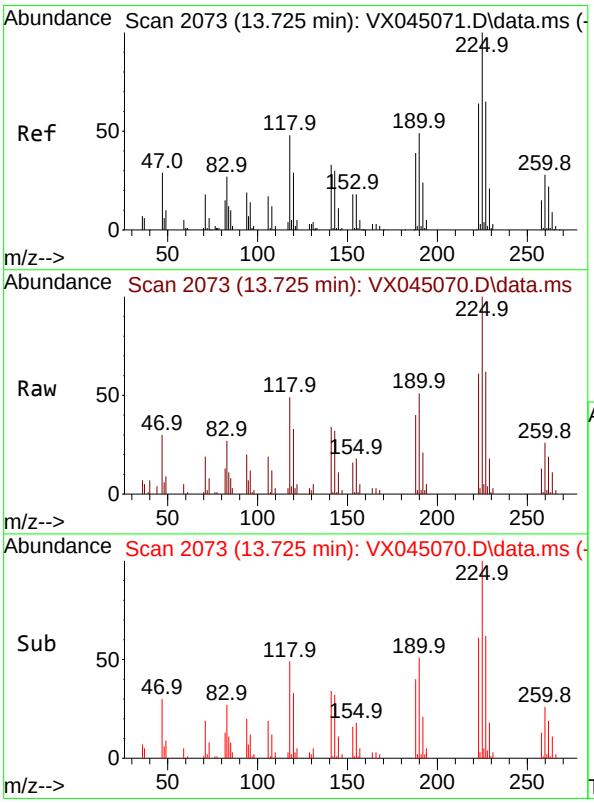
Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.3	141.9
145	31.5	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

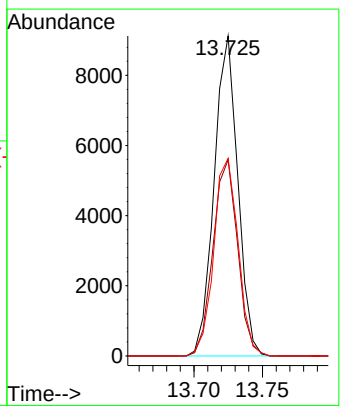
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

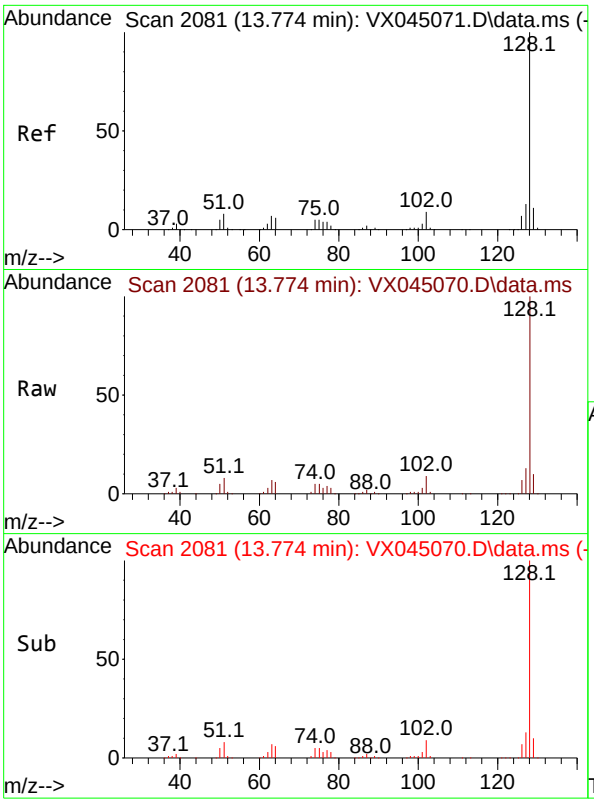


#94
Hexachlorobutadiene
Concen: 19.616 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:225 Resp: 10934

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.7
227	63.7	31.4	94.0

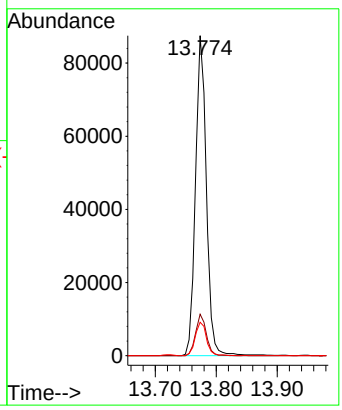




#95
Naphthalene
Concen: 21.279 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:128 Resp: 10835

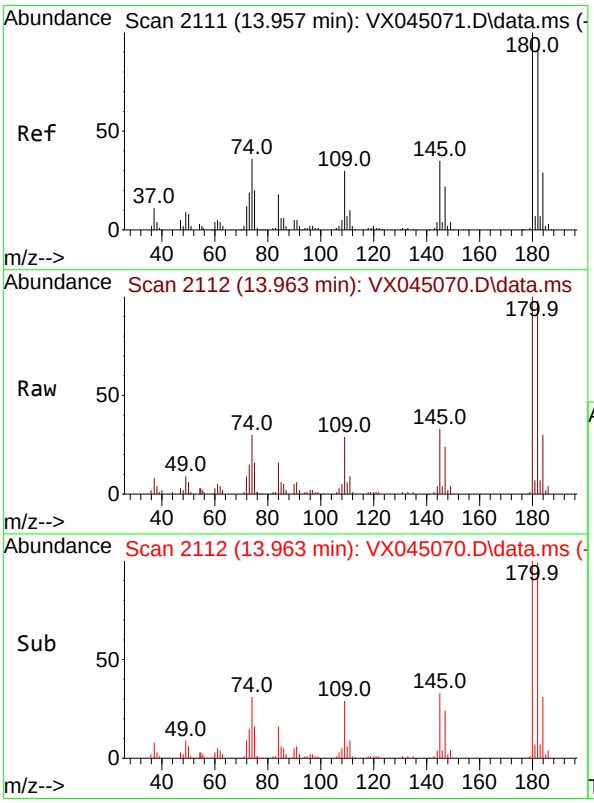
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.8	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

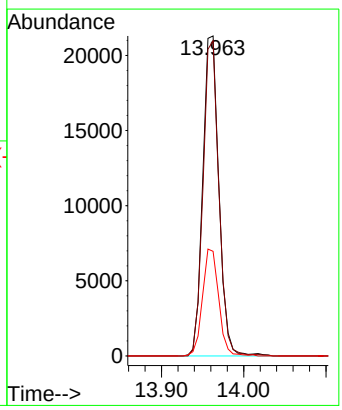
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.432 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:180 Resp: 28937

Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.5	142.6
145	33.7	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	103235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	186358	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162079	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78159	51.250	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.500%			
35) Dibromofluoromethane	5.385	113	61323	50.346	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.700%			
50) Toluene-d8	8.647	98	225493	49.449	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.900%			
62) 4-Bromofluorobenzene	11.079	95	74945	49.212	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	64743	45.502	ug/l	100
3) Chloromethane	1.307	50	77729	44.894	ug/l	100
4) Vinyl Chloride	1.374	62	78524	46.434	ug/l	100
5) Bromomethane	1.593	94	30169	57.066	ug/l	100
6) Chloroethane	1.660	64	38461	59.750	ug/l	100
7) Trichlorofluoromethane	1.868	101	108411	50.047	ug/l	100
8) Diethyl Ether	2.136	74	40001	50.814	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	61312	47.399	ug/l	100
10) Methyl Iodide	2.441	142	79357	47.854	ug/l	100
11) Tert butyl alcohol	2.983	59	69139	247.496	ug/l	100
12) 1,1-Dichloroethene	2.307	96	64327	48.434	ug/l	100
13) Acrolein	2.233	56	89603	296.189	ug/l	100
14) Allyl chloride	2.654	41	114313	47.875	ug/l	100
15) Acrylonitrile	3.062	53	211455	278.519	ug/l	100
16) Acetone	2.386	43	181429	289.130	ug/l	100
17) Carbon Disulfide	2.502	76	171353	47.419	ug/l	100
18) Methyl Acetate	2.703	43	89508	47.359	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	215043	50.642	ug/l	100
20) Methylene Chloride	2.782	84	72081	48.500	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	65093	49.832	ug/l	100
22) Diisopropyl ether	3.764	45	236563	51.816	ug/l	100
23) Vinyl Acetate	3.721	43	1018631	271.773	ug/l	100
24) 1,1-Dichloroethane	3.605	63	128235	50.270	ug/l	100
25) 2-Butanone	4.562	43	298785	295.330	ug/l	100
26) 2,2-Dichloropropane	4.471	77	61631	32.498	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	78657	49.955	ug/l	100
28) Bromochloromethane	4.898	49	62299	50.643	ug/l	100
29) Tetrahydrofuran	5.007	42	192607	287.345	ug/l	100
30) Chloroform	5.087	83	128581	51.532	ug/l	100
31) Cyclohexane	5.464	56	114333	48.836	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	105671	50.306	ug/l	100
36) 1,1-Dichloropropene	5.690	75	87338	49.861	ug/l	100
37) Ethyl Acetate	4.715	43	112892	56.641	ug/l	100
38) Carbon Tetrachloride	5.672	117	87123	50.593	ug/l	100
39) Methylcyclohexane	7.373	83	108974	48.715	ug/l	100
40) Benzene	6.031	78	278802	50.925	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	63454	59.598 ug/l		100
42) 1,2-Dichloroethane	6.080	62	98340	55.428 ug/l		100
43) Isopropyl Acetate	6.342	43	173045	54.544 ug/l		100
44) Trichloroethene	7.123	130	63513	50.756 ug/l		100
45) 1,2-Dichloropropane	7.428	63	69128	50.808 ug/l		100
46) Dibromomethane	7.580	93	50143	52.757 ug/l		100
47) Bromodichloromethane	7.818	83	97729	53.153 ug/l		100
48) Methyl methacrylate	7.690	41	86231	57.256 ug/l		100
49) 1,4-Dioxane	7.659	88	35053	1095.003 ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	568737	292.570 ug/l		100
52) Toluene	8.714	92	167431	51.505 ug/l		100
53) t-1,3-Dichloropropene	8.976	75	87373	48.078 ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	99713	49.079 ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	66379	52.724 ug/l		100
56) Ethyl methacrylate	9.116	69	106157	52.724 ug/l		100
57) 1,3-Dichloropropane	9.305	76	115488	52.594 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	264555	267.612 ug/l		100
59) 2-Hexanone	9.427	43	416984	297.362 ug/l		100
60) Dibromochloromethane	9.519	129	71569	53.284 ug/l		100
61) 1,2-Dibromoethane	9.604	107	66312	52.217 ug/l		100
64) Tetrachloroethene	9.269	164	52531	51.021 ug/l		100
65) Chlorobenzene	10.079	112	176922	50.853 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	57642	51.402 ug/l		100
67) Ethyl Benzene	10.189	91	316427	51.431 ug/l		100
68) m/p-Xylenes	10.299	106	234554	103.515 ug/l		100
69) o-Xylene	10.640	106	114440	50.341 ug/l		100
70) Styrene	10.653	104	191406	52.387 ug/l		100
71) Bromoform	10.799	173	44730	53.645 ug/l	#	100
73) Isopropylbenzene	10.963	105	294694	51.167 ug/l		100
74) N-amyl acetate	10.842	43	140869	53.881 ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	101089	50.945 ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	81743m	51.421 ug/l		
77) Bromobenzene	11.195	156	66904	51.173 ug/l		100
78) n-propylbenzene	11.305	91	342399	51.546 ug/l		100
79) 2-Chlorotoluene	11.360	91	204484	50.154 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	241129	51.613 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	24135	41.172 ug/l		100
82) 4-Chlorotoluene	11.451	91	230493	51.072 ug/l		100
83) tert-Butylbenzene	11.713	119	240510	50.895 ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	240719	52.326 ug/l		100
85) sec-Butylbenzene	11.890	105	300393	51.353 ug/l		100
86) p-Isopropyltoluene	12.006	119	244031	51.964 ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	118879	49.747 ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	120217	49.694 ug/l		100
89) n-Butylbenzene	12.329	91	214685	52.006 ug/l		100
90) Hexachloroethane	12.536	117	43086	49.188 ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	118896	50.557 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20610	56.123 ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	71897	50.571 ug/l		100
94) Hexachlorobutadiene	13.725	225	27916	49.245 ug/l		100
95) Naphthalene	13.774	128	278086	53.700 ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	75482	52.406 ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

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

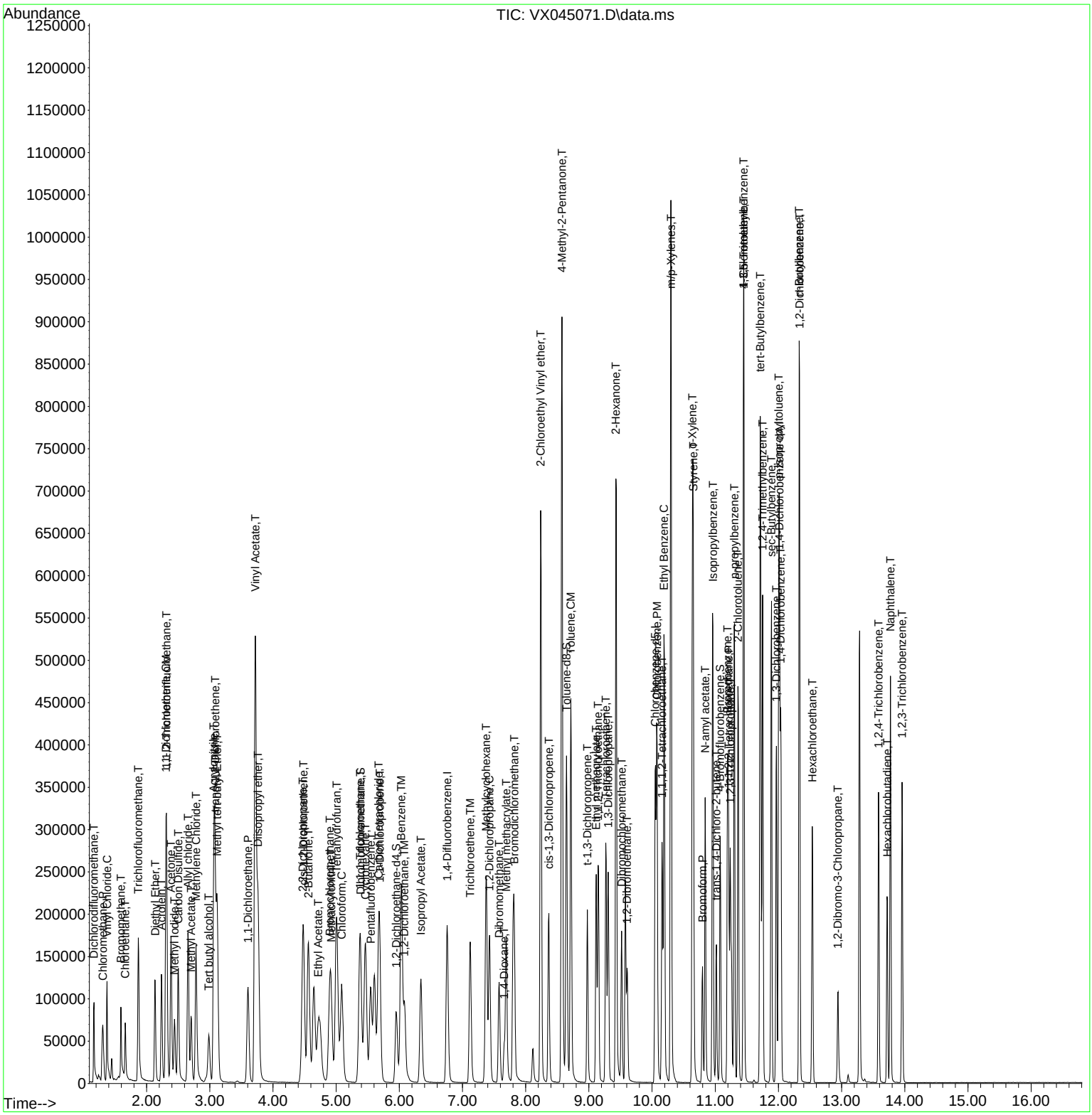
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

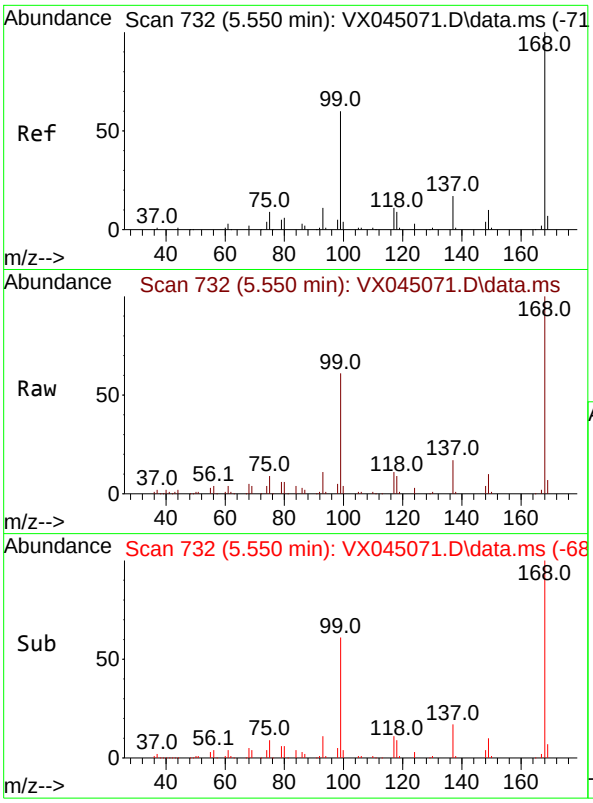
Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

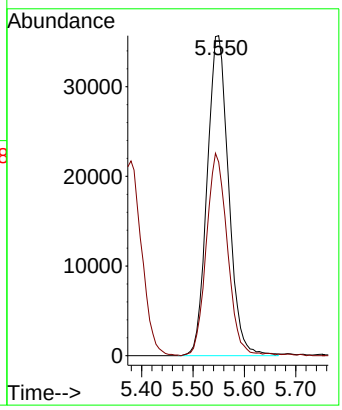




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:168 Resp: 10323

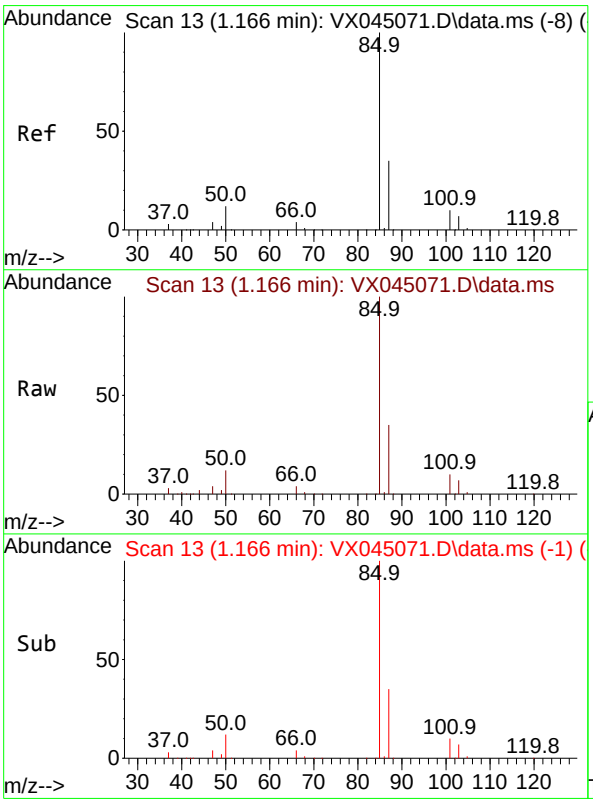
Ion	Ratio	Lower	Upper
168	100		
99	60.3	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

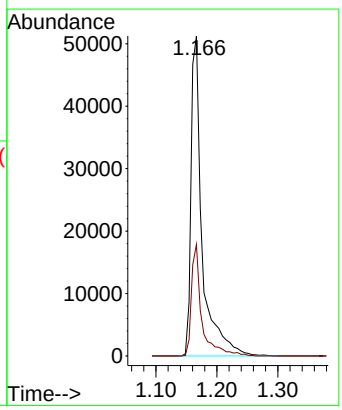
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

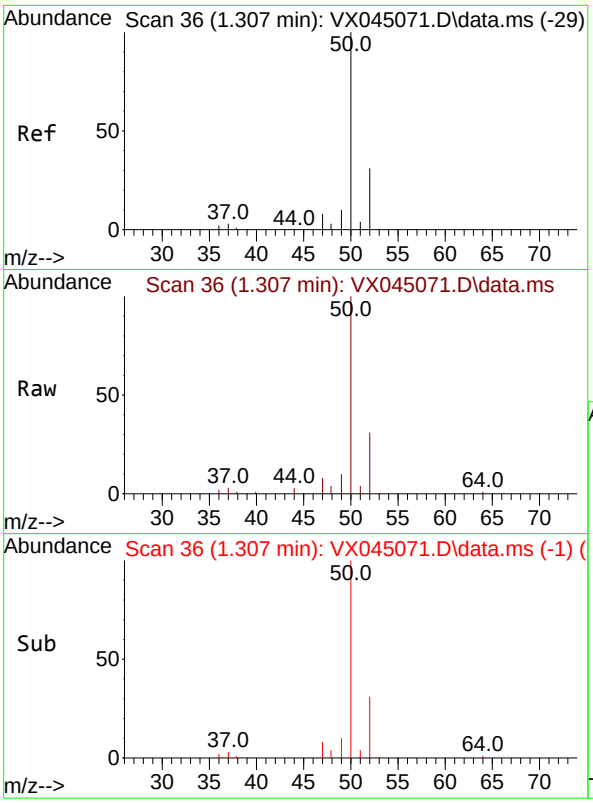


#2
Dichlorodifluoromethane
Concen: 45.502 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 85 Resp: 64743

Ion	Ratio	Lower	Upper
85	100		
87	34.9	17.4	52.3

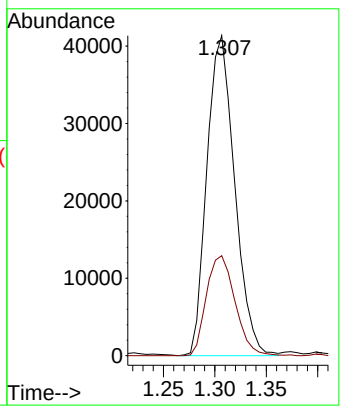




#3
Chloromethane
Concen: 44.894 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 50 Resp: 7772

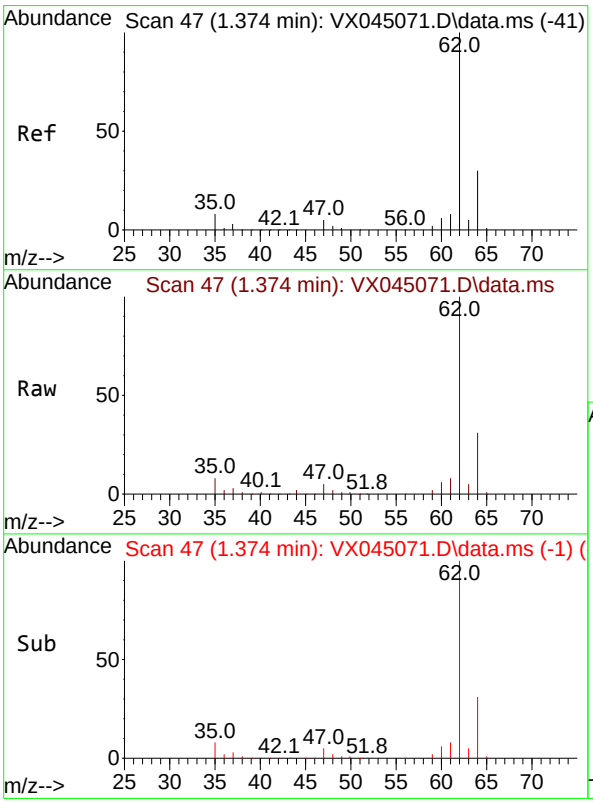
Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

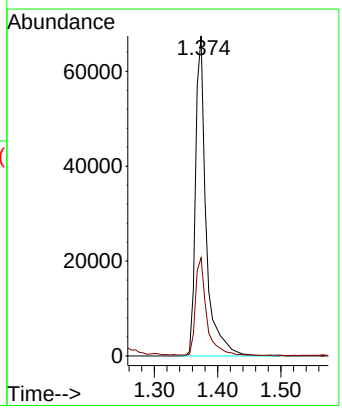
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

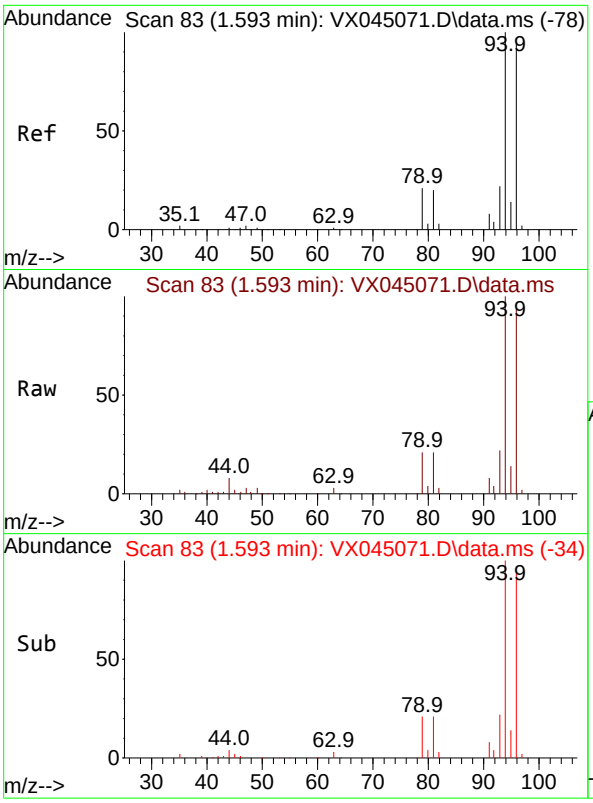


#4
Vinyl Chloride
Concen: 46.434 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 78524

Ion	Ratio	Lower	Upper
62	100		
64	30.4	24.3	36.5

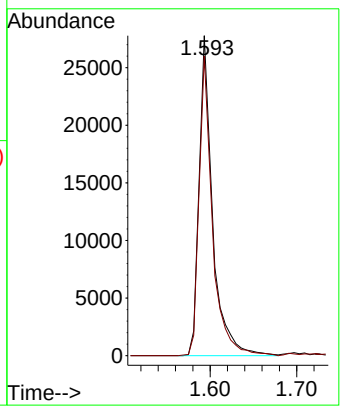




#5
Bromomethane
Concen: 57.066 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 94 Resp: 3016

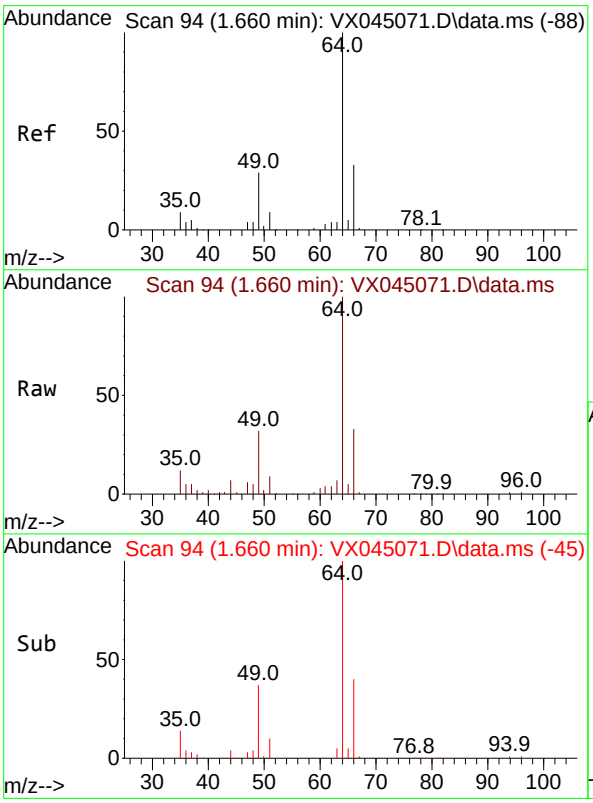
Ion	Ratio	Lower	Upper
94	100		
96	93.7	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

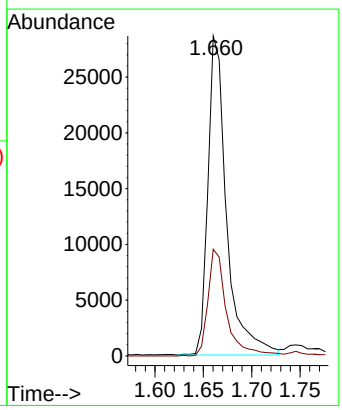
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

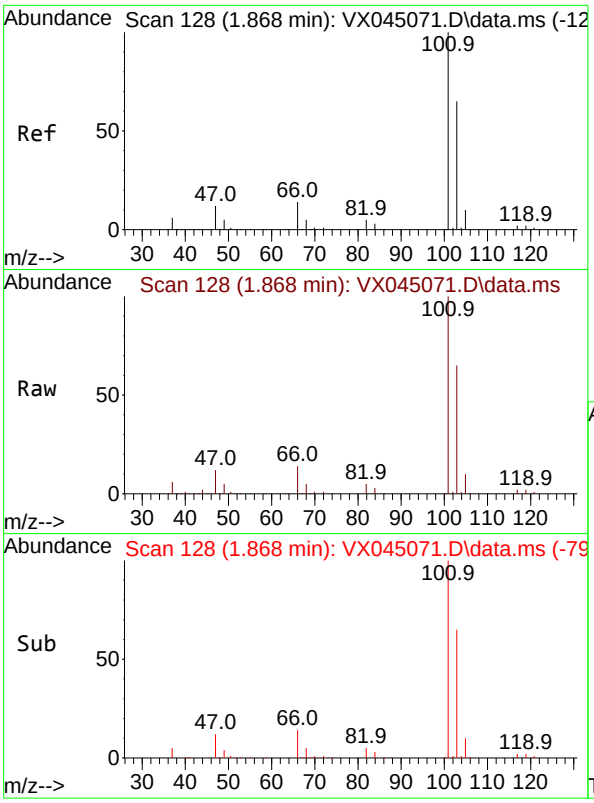


#6
Chloroethane
Concen: 59.750 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 64 Resp: 38461

Ion	Ratio	Lower	Upper
64	100		
66	33.4	26.7	40.1

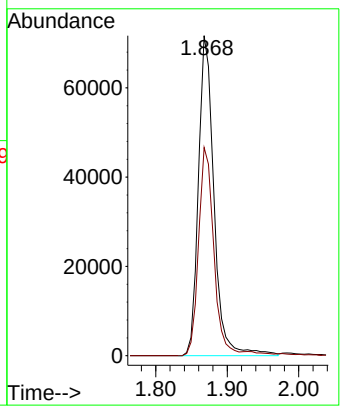




#7
Trichlorofluoromethane
Concen: 50.047 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:101 Resp: 10841

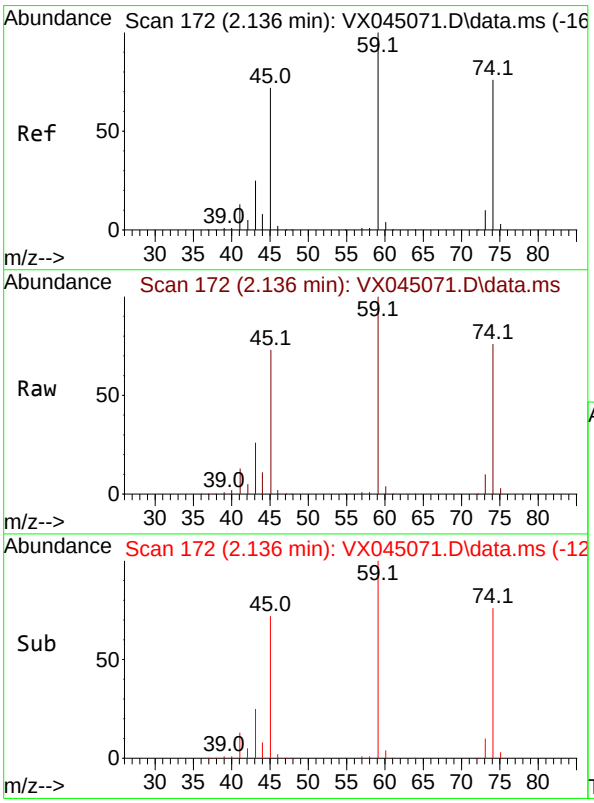
Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

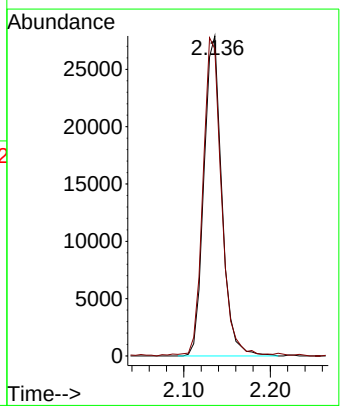
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

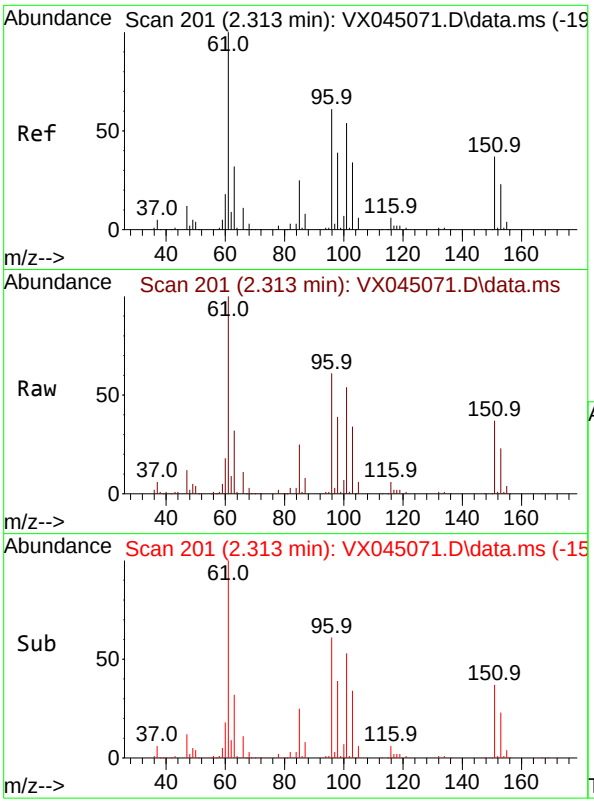


#8
Diethyl Ether
Concen: 50.814 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 74 Resp: 40001

Ion	Ratio	Lower	Upper
74	100		
45	103.0	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.399 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

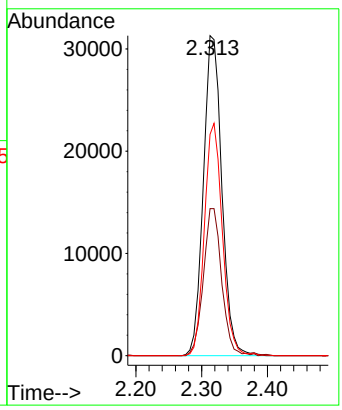
Tgt Ion:101 Resp: 6131

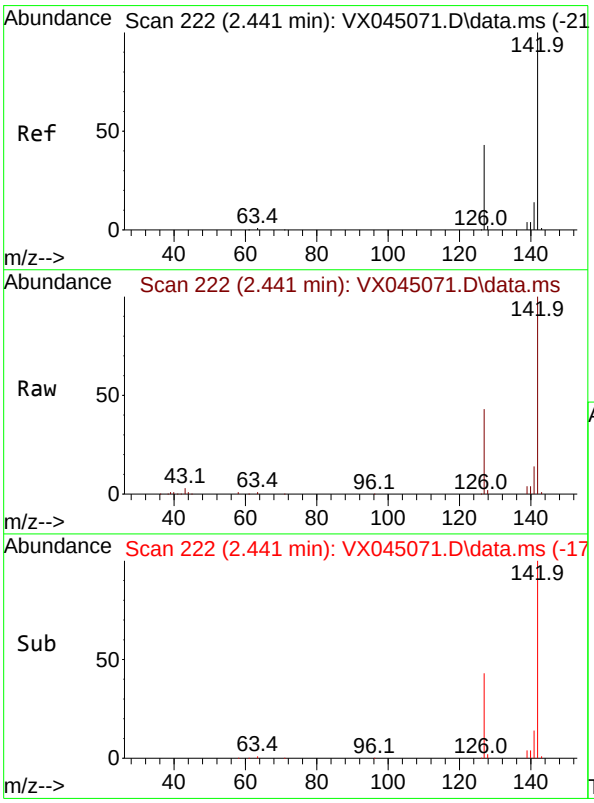
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	70.5	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

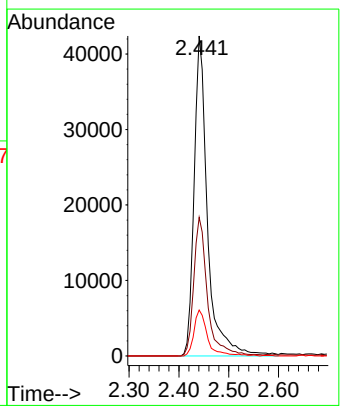


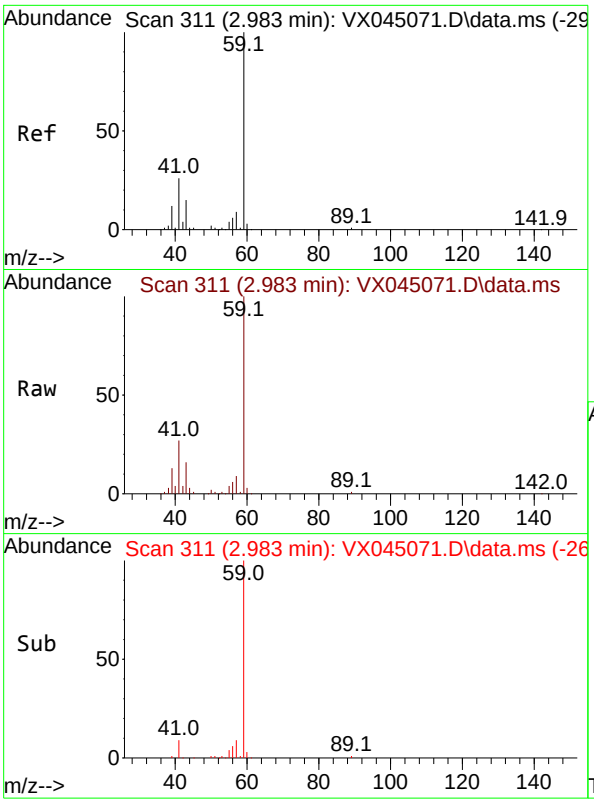


#10
Methyl Iodide
Concen: 47.854 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:142 Resp: 79357

Ion	Ratio	Lower	Upper
142	100		
127	44.3	35.4	53.2
141	14.5	11.6	17.4

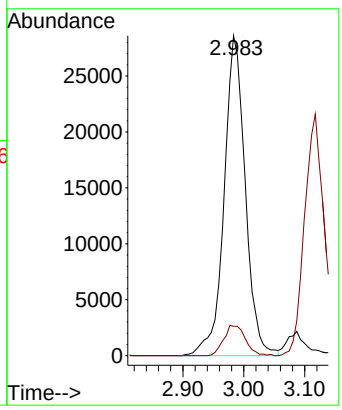




#11
Tert butyl alcohol
Concen: 247.496 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 59 Resp: 6913

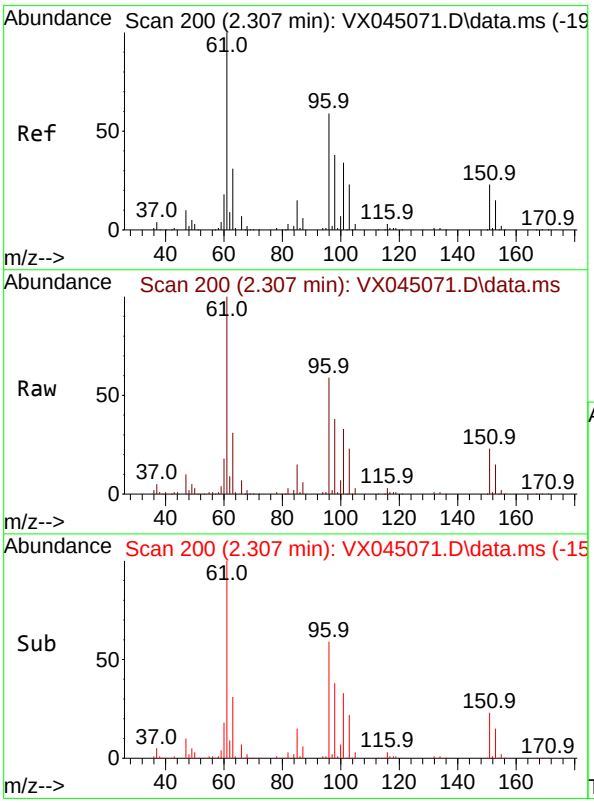
Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

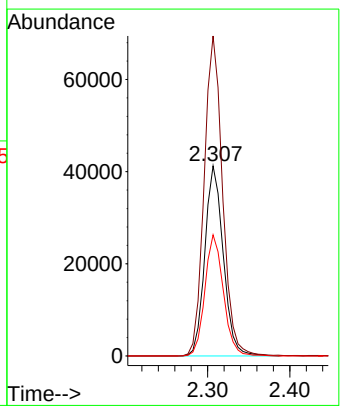
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

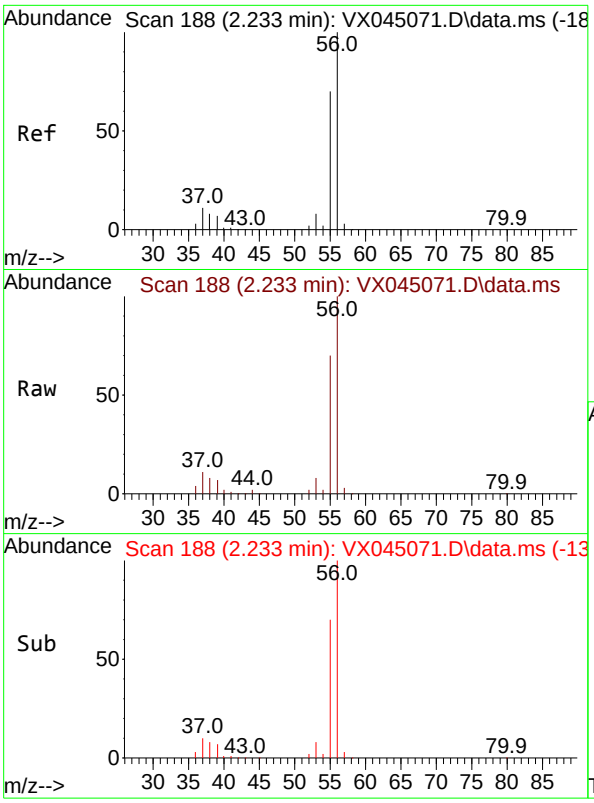


#12
1,1-Dichloroethene
Concen: 48.434 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 96 Resp: 64327

Ion	Ratio	Lower	Upper
96	100		
61	168.3	134.6	202.0
98	63.8	51.0	76.6

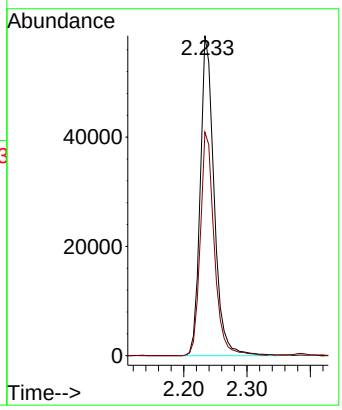




#13
Acrolein
Concen: 296.189 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 56 Resp: 8960

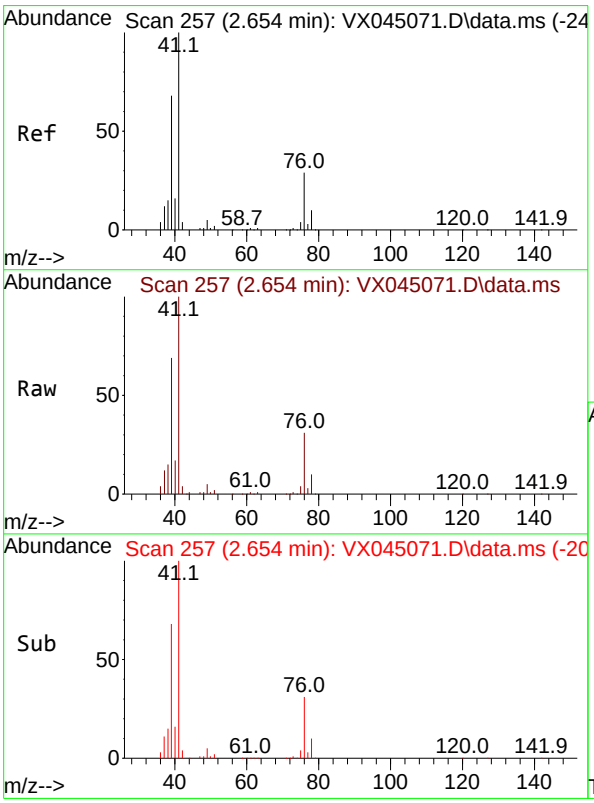
Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

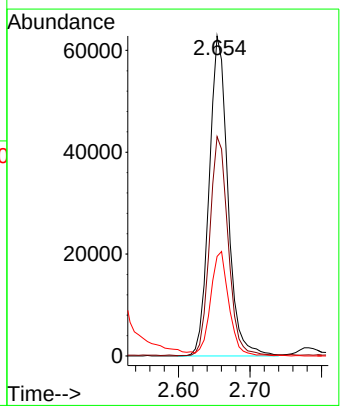
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

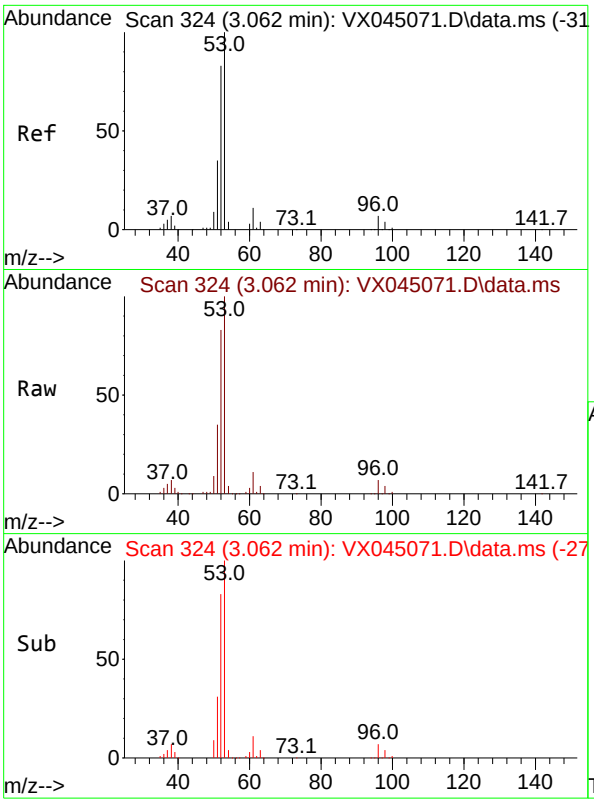


#14
Allyl chloride
Concen: 47.875 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 114313

Ion	Ratio	Lower	Upper
41	100		
39	67.3	53.8	80.8
76	31.5	25.2	37.8

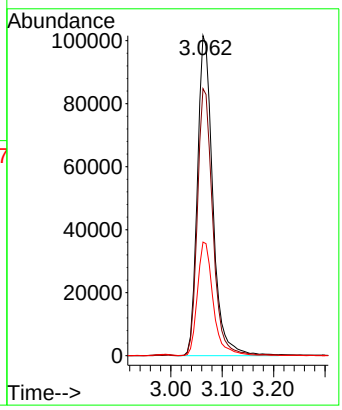




#15
Acrylonitrile
Concen: 278.519 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 53 Resp: 21145

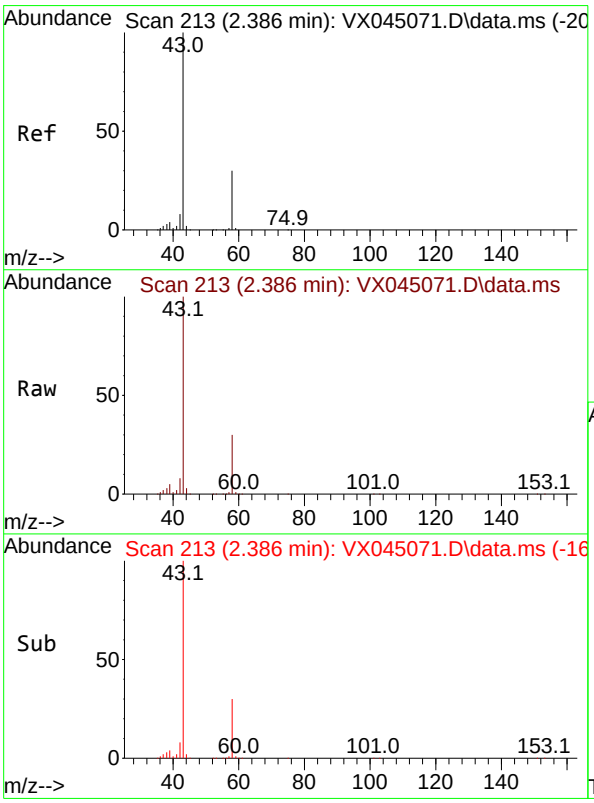
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.2	99.2
51	36.2	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

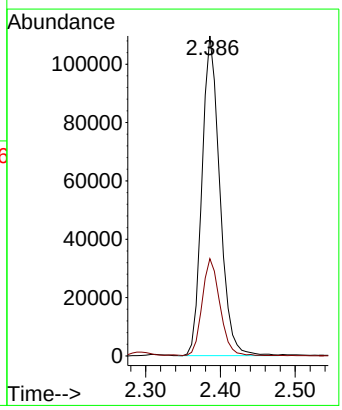
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

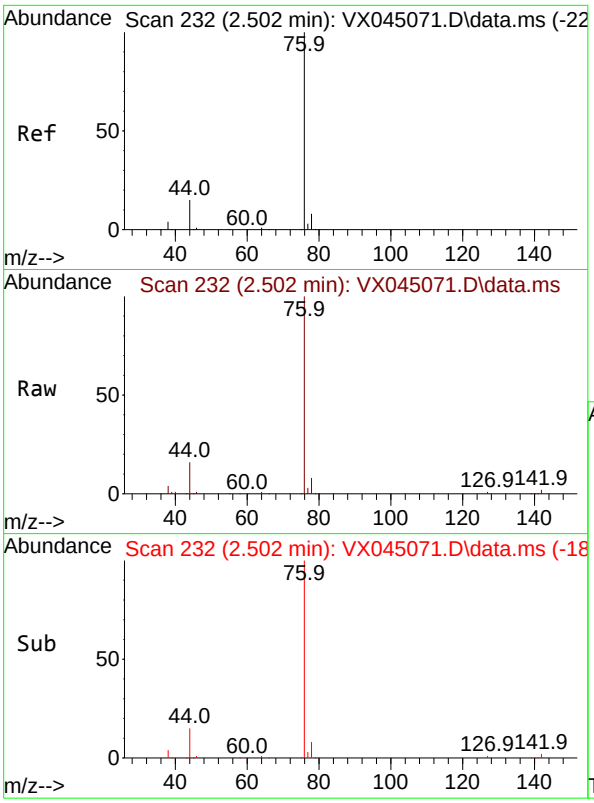


#16
Acetone
Concen: 289.130 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 181429

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4





#17
Carbon Disulfide
Concen: 47.419 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

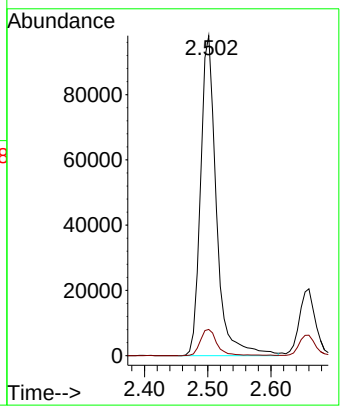
Tgt Ion: 76 Resp: 17135

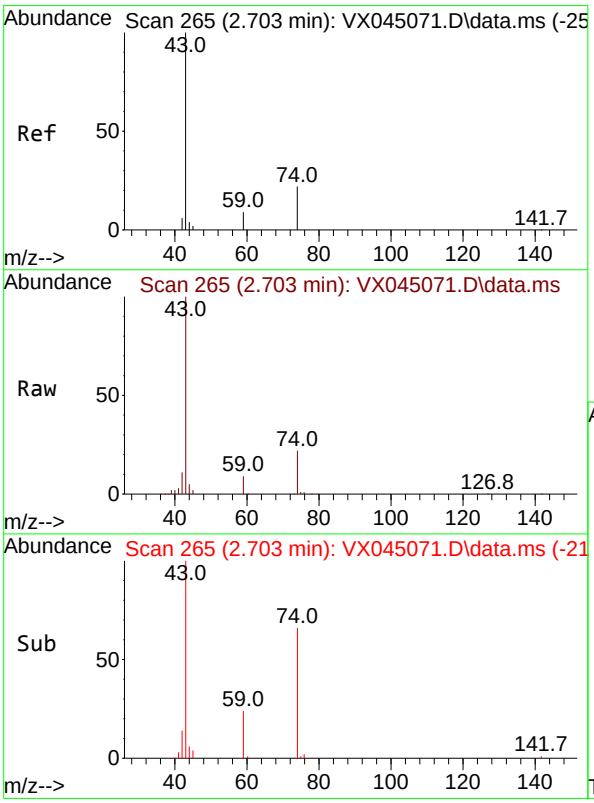
Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

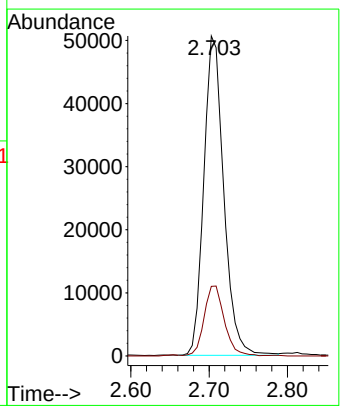


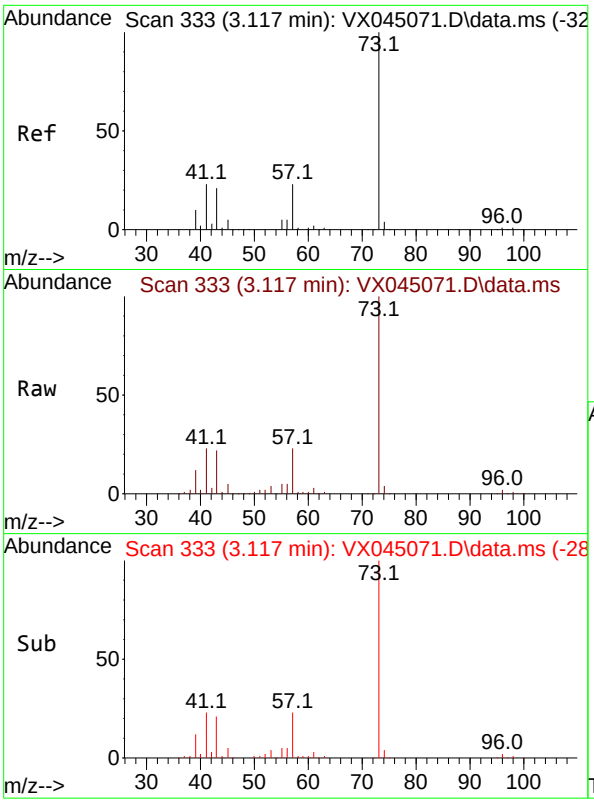


#18
Methyl Acetate
Concen: 47.359 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 89508

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

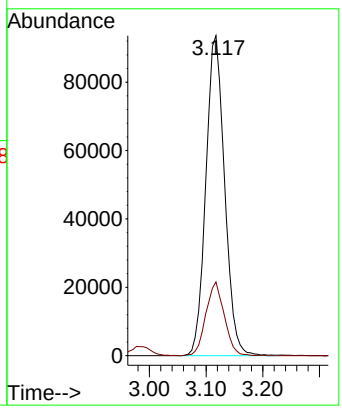




#19
Methyl tert-butyl Ether
Concen: 50.642 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 73 Resp: 21504

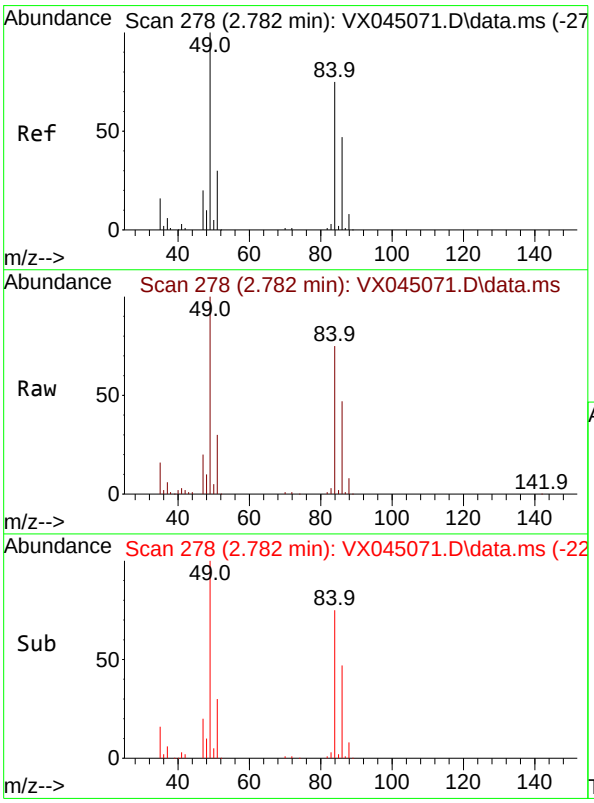
Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

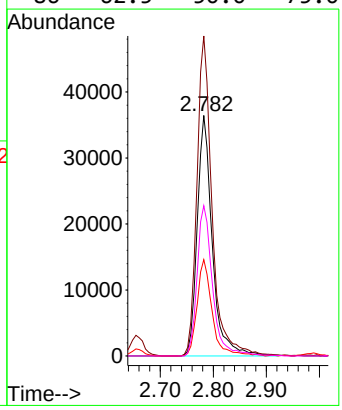
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

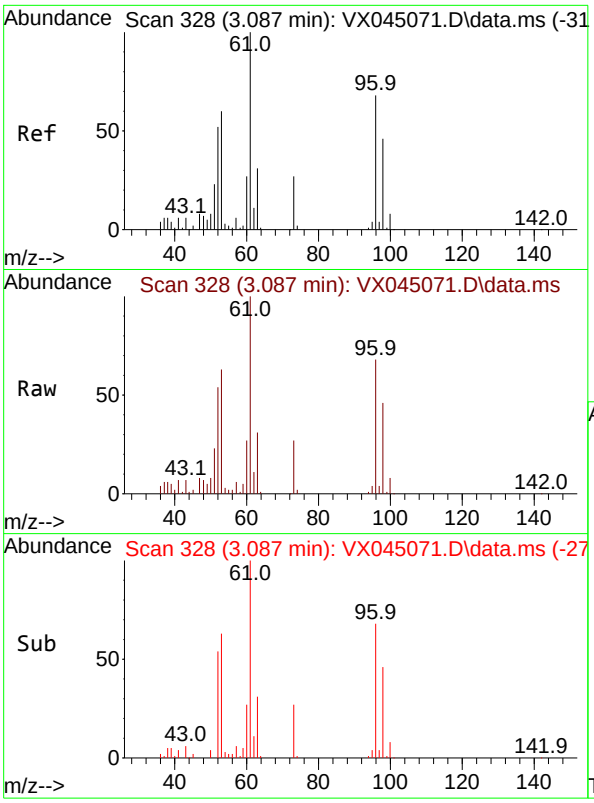


#20
Methylene Chloride
Concen: 48.500 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 84 Resp: 72081

Ion	Ratio	Lower	Upper
84	100		
49	133.1	106.5	159.7
51	40.1	32.1	48.1
86	62.5	50.0	75.0

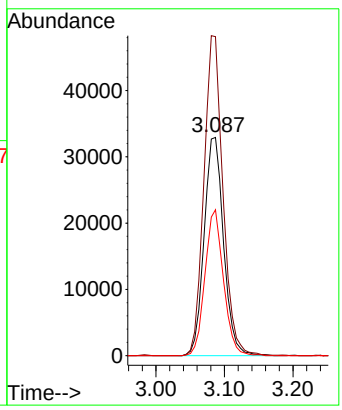




#21
trans-1,2-Dichloroethene
Concen: 49.832 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 96 Resp: 6509

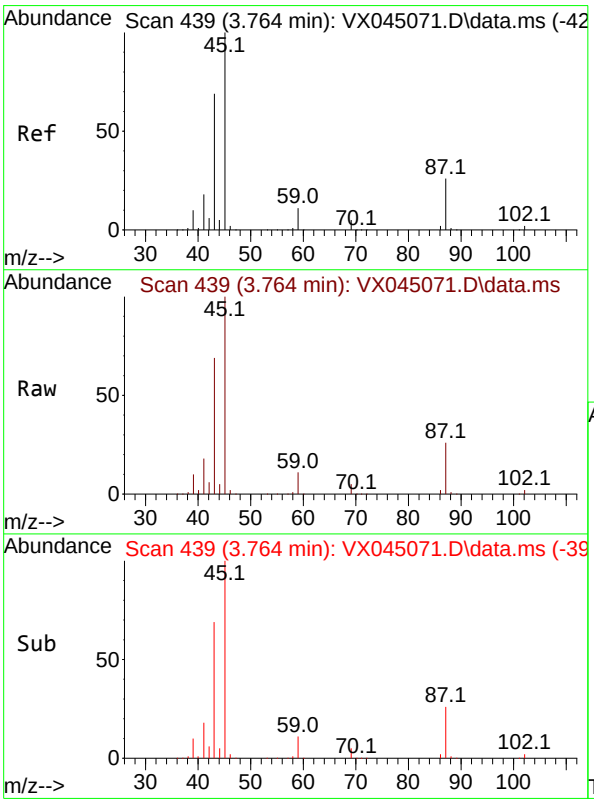
Ion	Ratio	Lower	Upper
96	100		
61	146.2	117.0	175.4
98	66.8	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

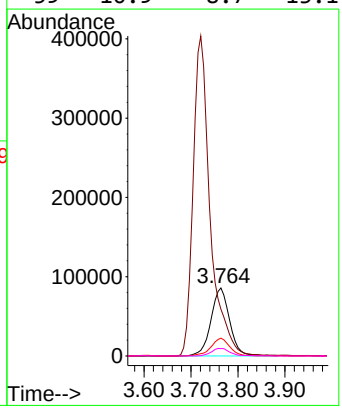
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

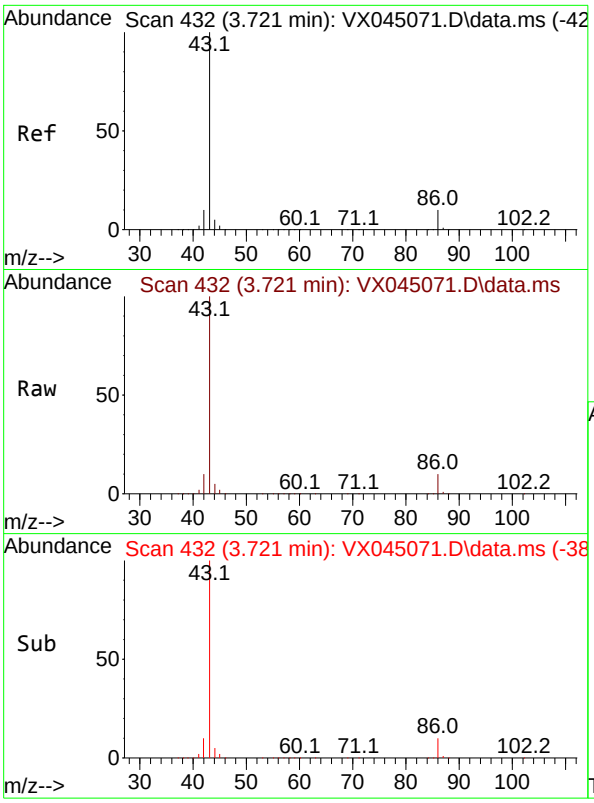


#22
Diisopropyl ether
Concen: 51.816 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 45 Resp: 236563

Ion	Ratio	Lower	Upper
45	100		
43	68.6	54.9	82.3
87	26.2	21.0	31.4
59	10.9	8.7	13.1

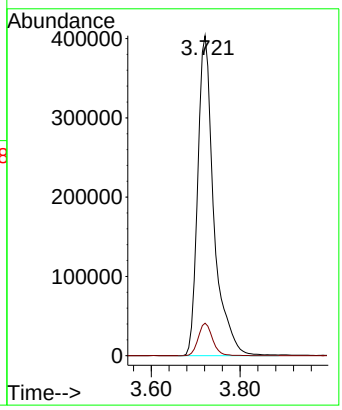




#23
Vinyl Acetate
Concen: 271.773 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 101863

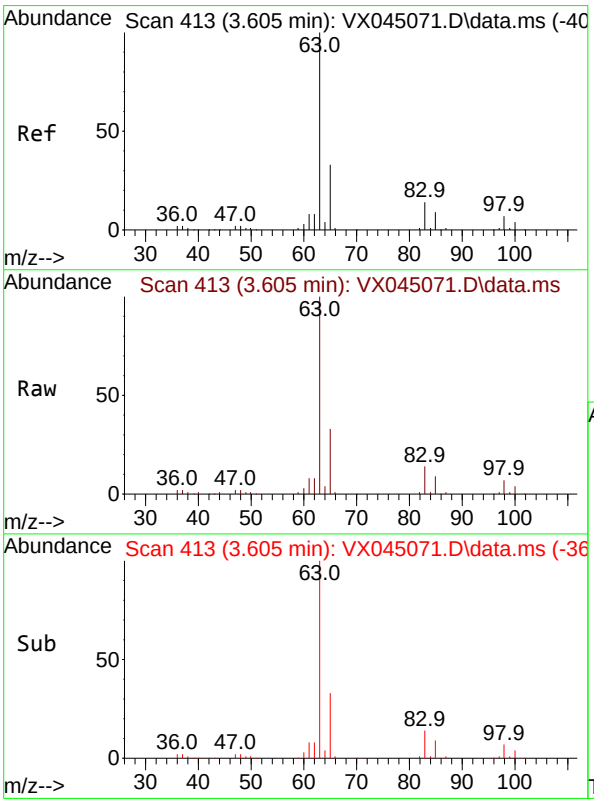
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

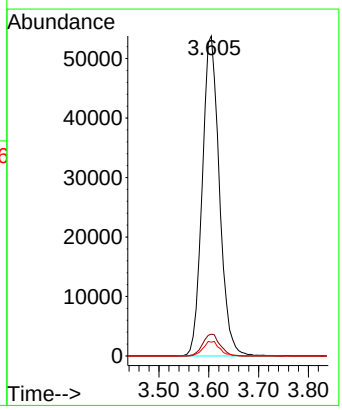
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

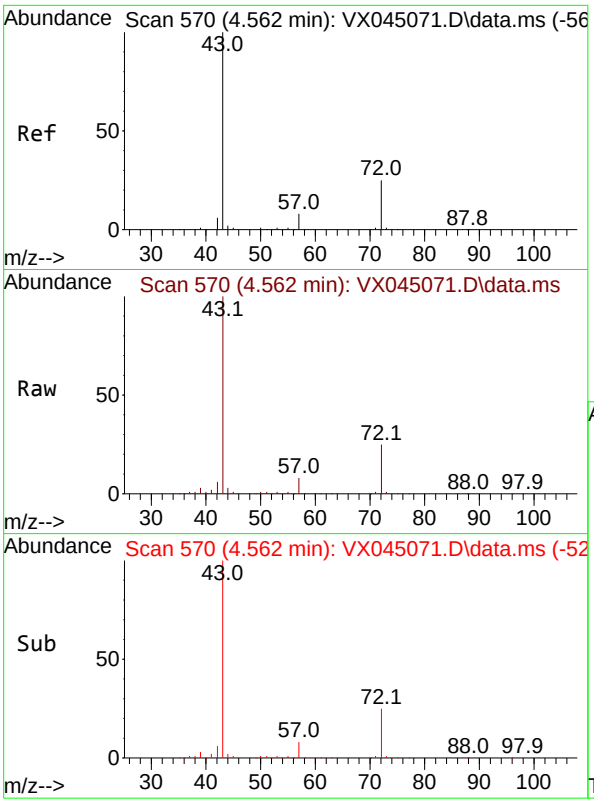


#24
1,1-Dichloroethane
Concen: 50.270 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 128235

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.3	2.1	6.5

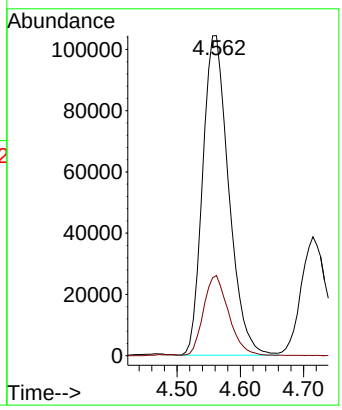




#25
2-Butanone
Concen: 295.330 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 29878

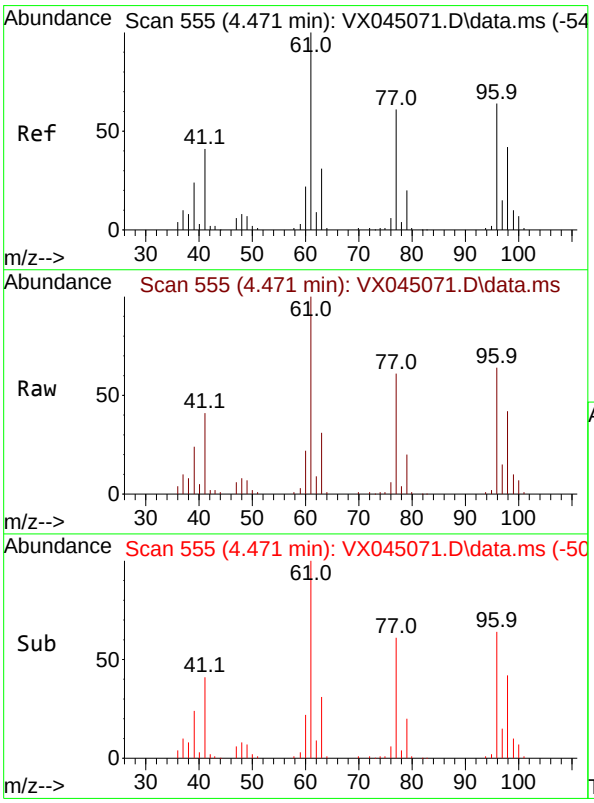
Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.0	30.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

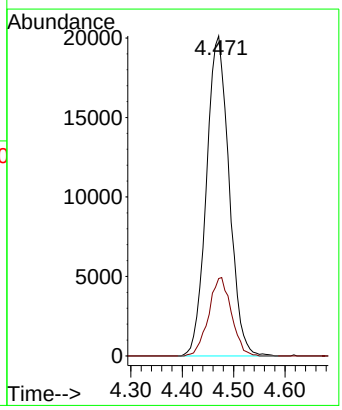
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

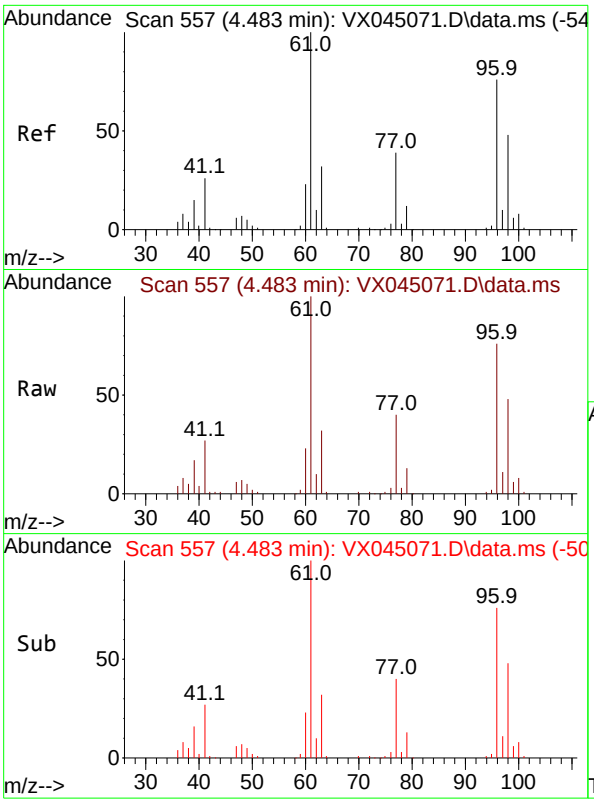


#26
2,2-Dichloropropane
Concen: 32.498 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 77 Resp: 61631

Ion	Ratio	Lower	Upper
77	100		
97	24.7	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 49.955 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

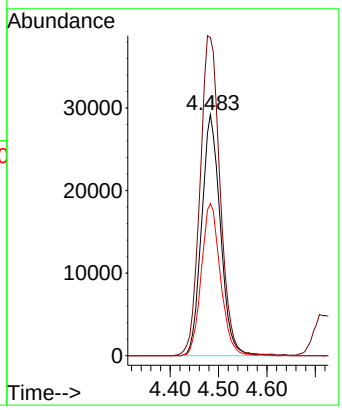
Tgt Ion: 96 Resp: 7865

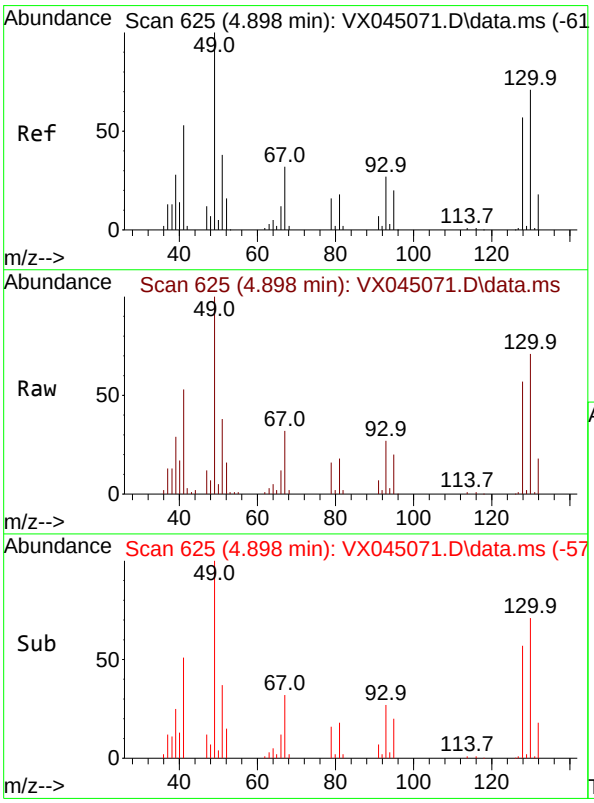
Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	283.2
98	64.0	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

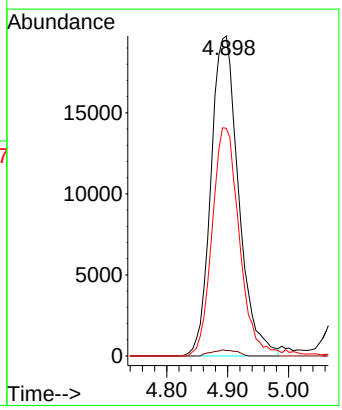


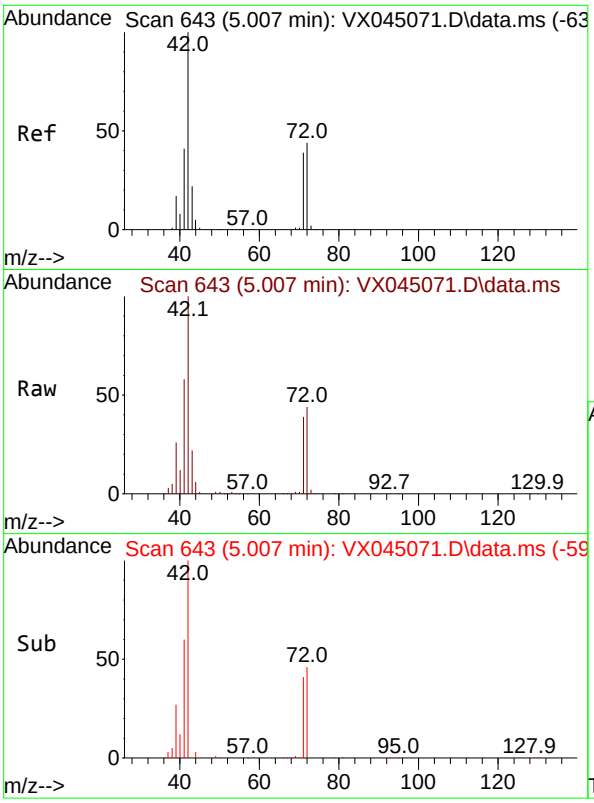


#28
Bromochloromethane
Concen: 50.643 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 49 Resp: 62299

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.1	56.1	84.1

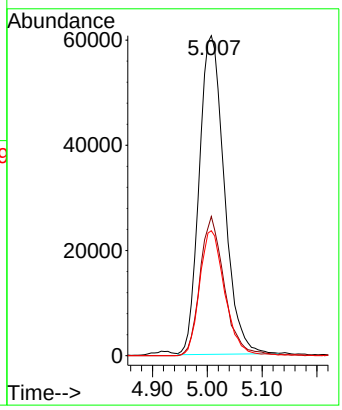




#29
Tetrahydrofuran
Concen: 287.345 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 42 Resp: 19260

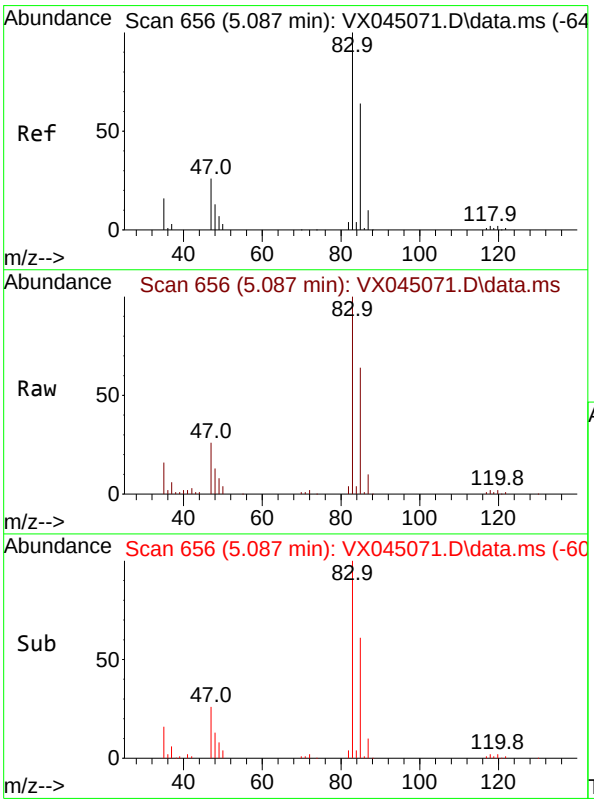
Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.1	51.1
71	39.2	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

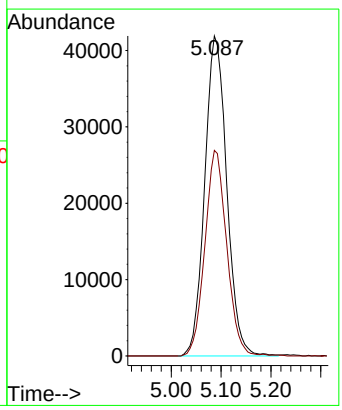
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

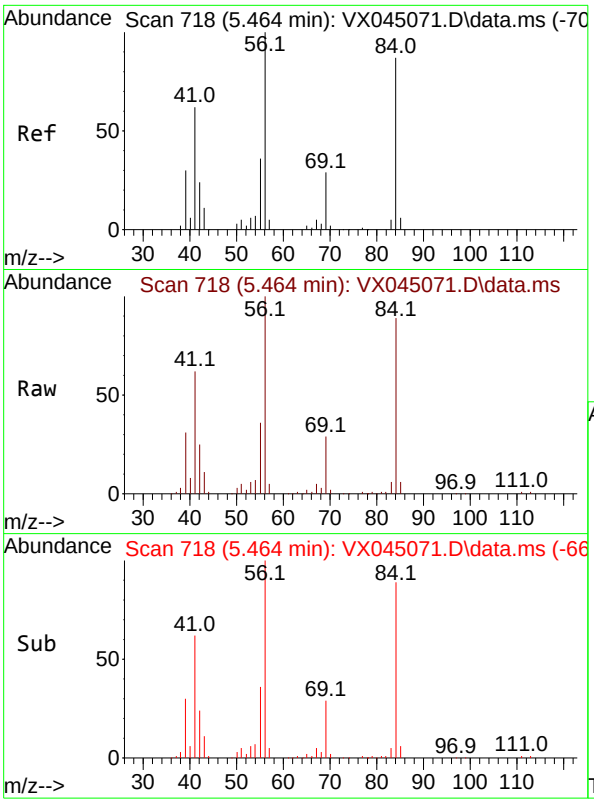


#30
Chloroform
Concen: 51.532 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 128581

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.4	77.2

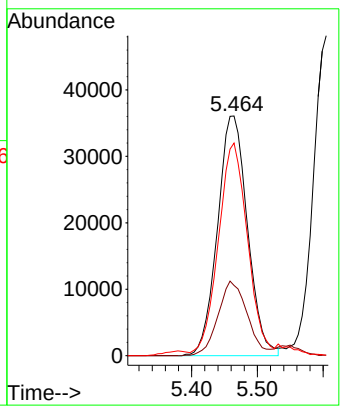




#31
Cyclohexane
Concen: 48.836 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 56 Resp: 11433

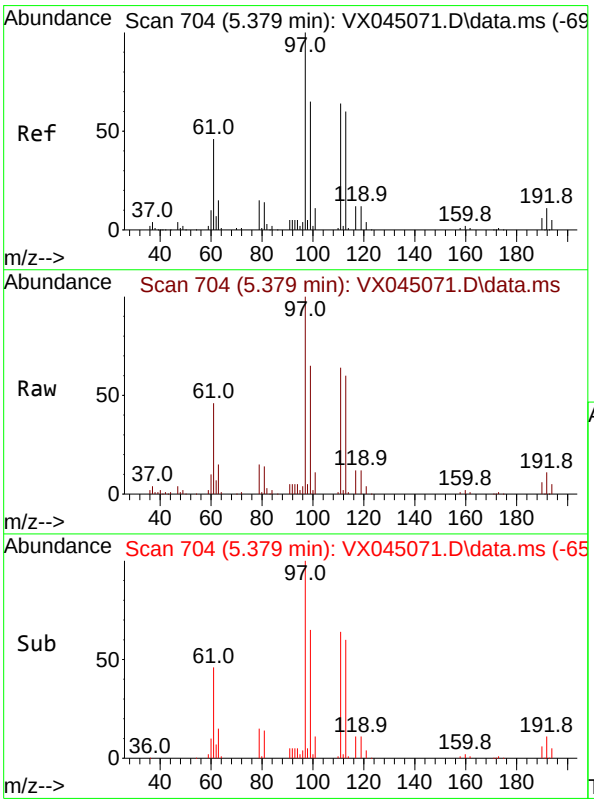
Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.4	35.2
84	86.8	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

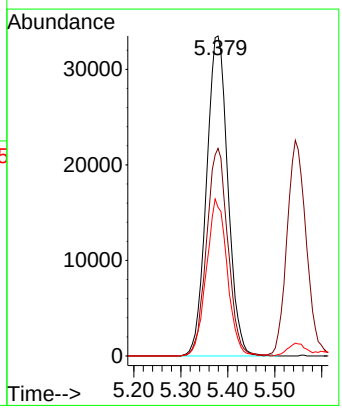
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

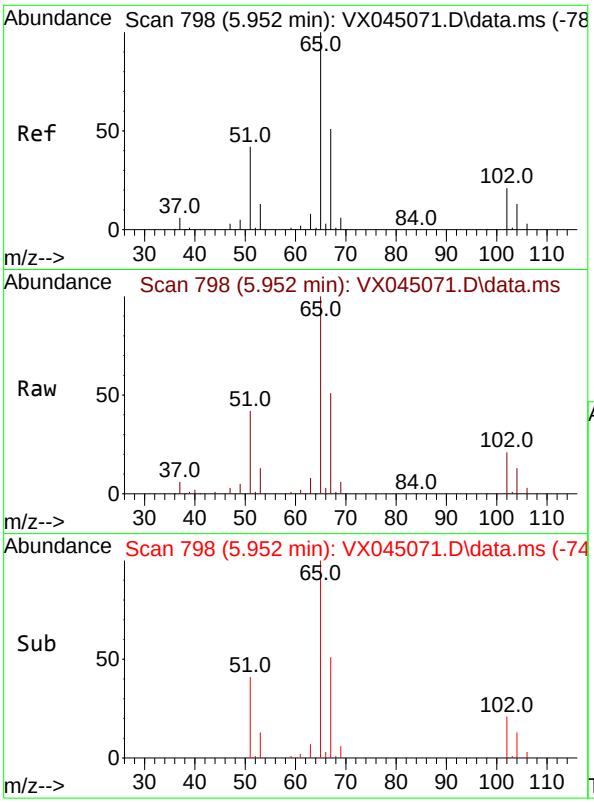


#32
1,1,1-Trichloroethane
Concen: 50.306 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 97 Resp: 105671

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	48.0	38.4	57.6

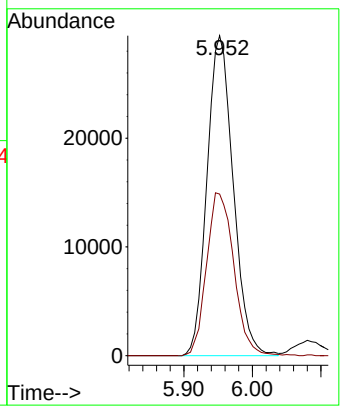




#33
1,2-Dichloroethane-d4
Concen: 51.250 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 65 Resp: 7815

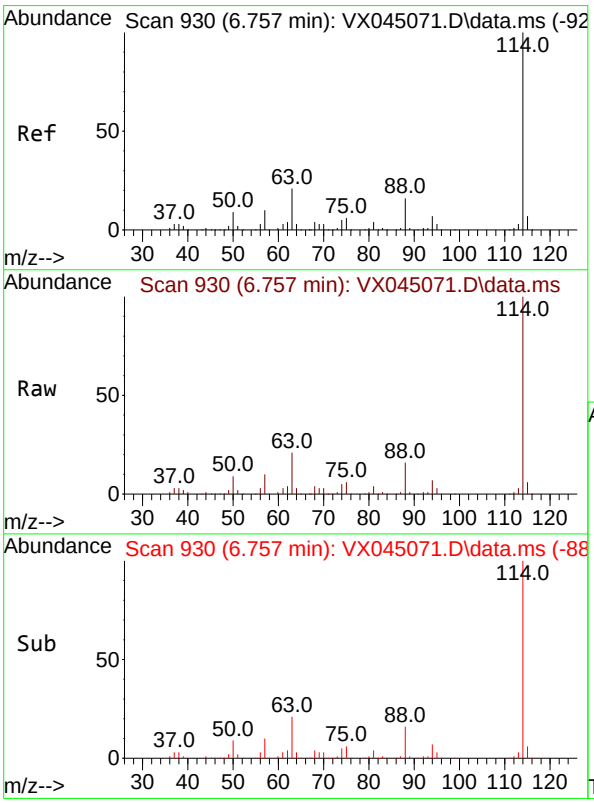
Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

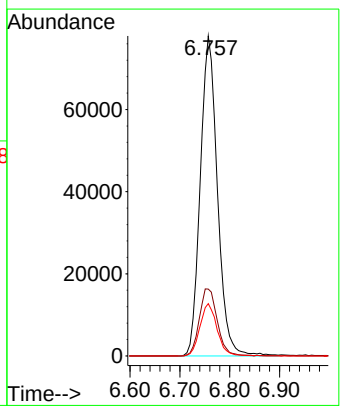
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

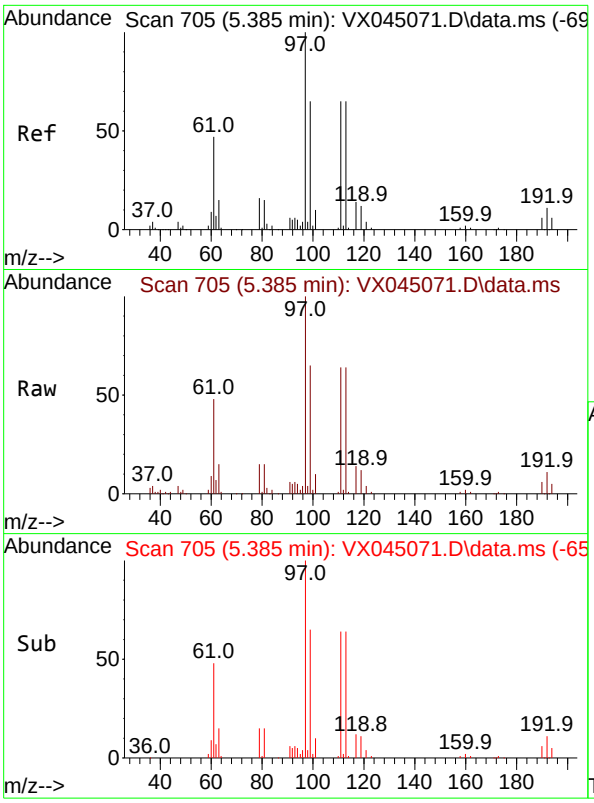


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:114 Resp: 186358

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	41.8
88	16.4	0.0	32.8

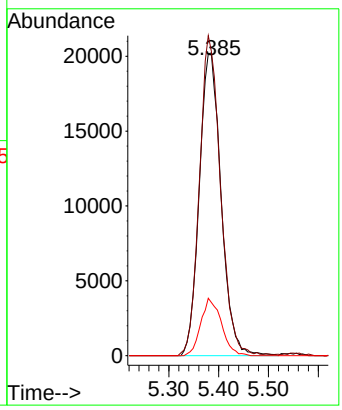




#35
Dibromofluoromethane
Concen: 50.346 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:113 Resp: 6132

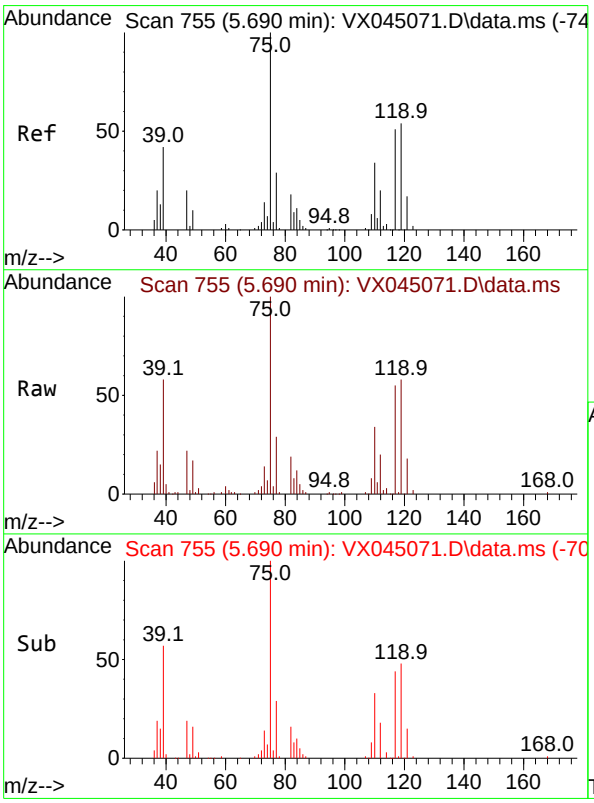
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	17.9	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

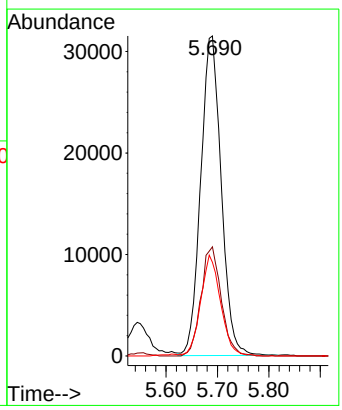
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

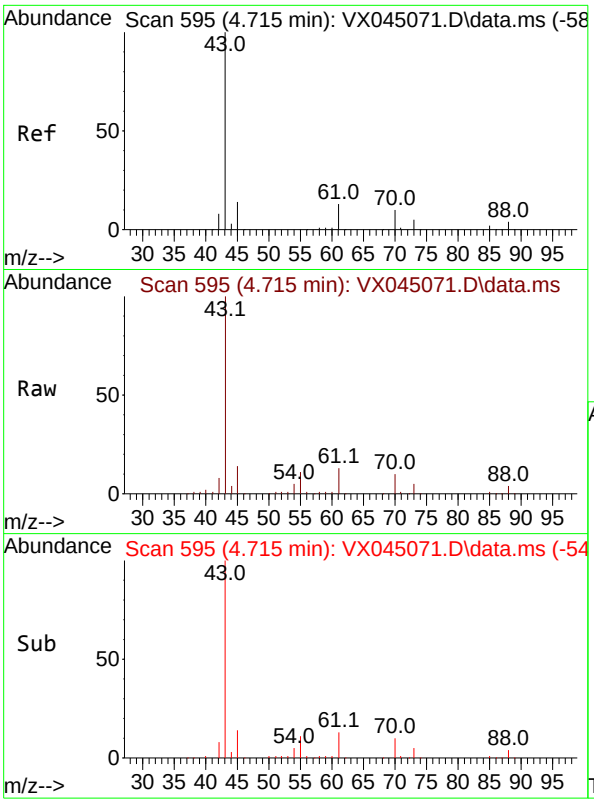


#36
1,1-Dichloropropene
Concen: 49.861 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 87338

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	30.6	24.5	36.7





#37
Ethyl Acetate
Concen: 56.641 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

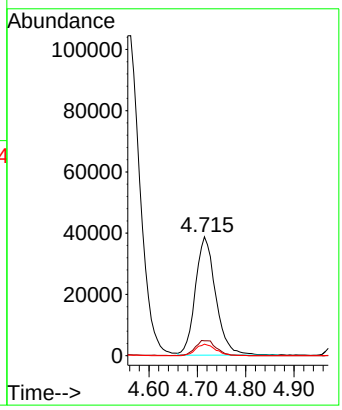
Tgt Ion: 43 Resp: 11289

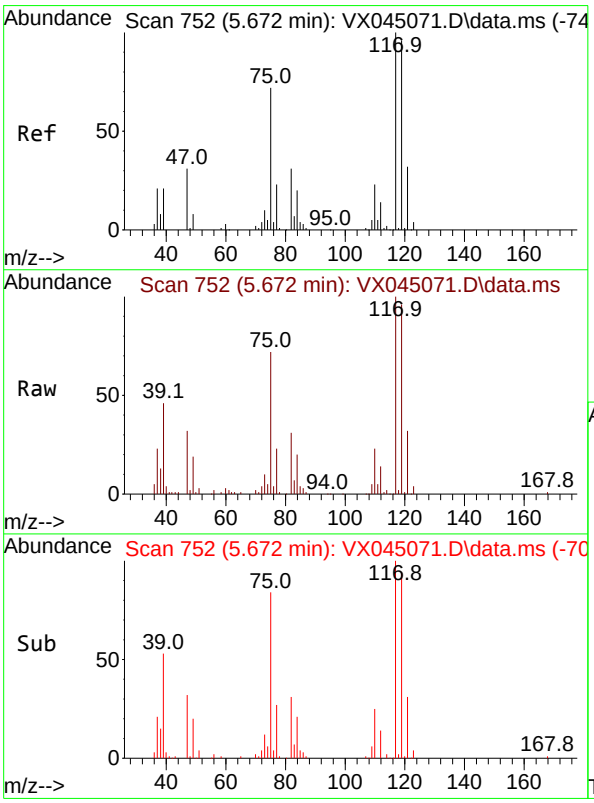
Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.8	16.2
70	9.6	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

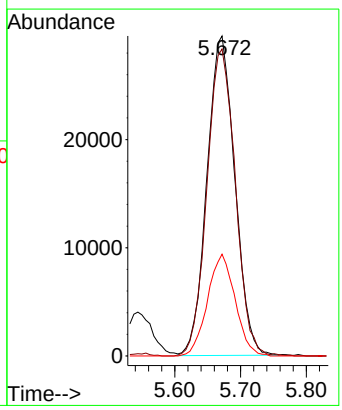


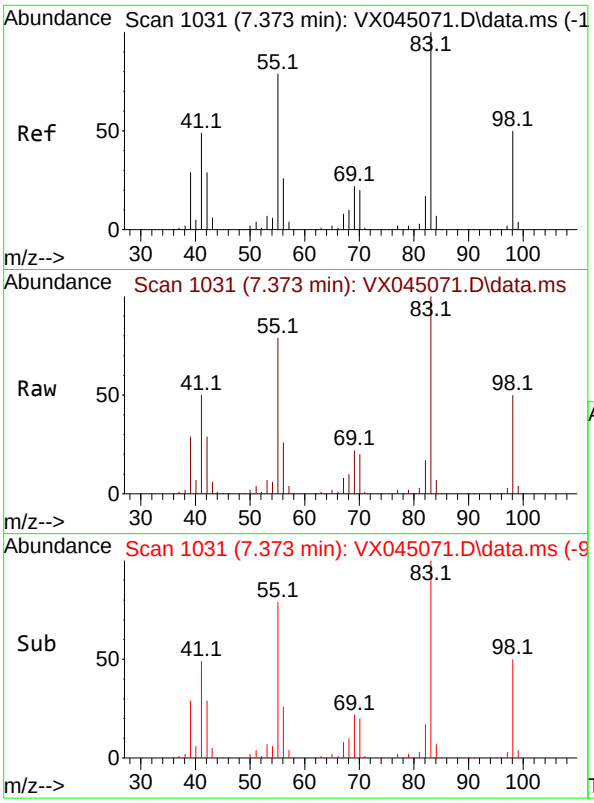


#38
Carbon Tetrachloride
Concen: 50.593 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:117 Resp: 87123

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
121	31.9	25.5	38.3

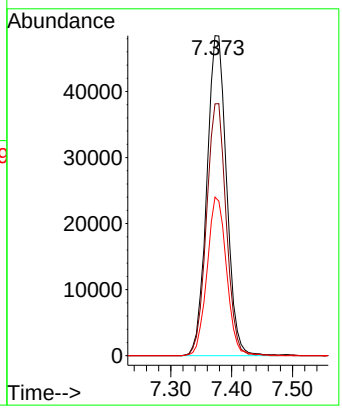




#39
Methylcyclohexane
Concen: 48.715 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 10897

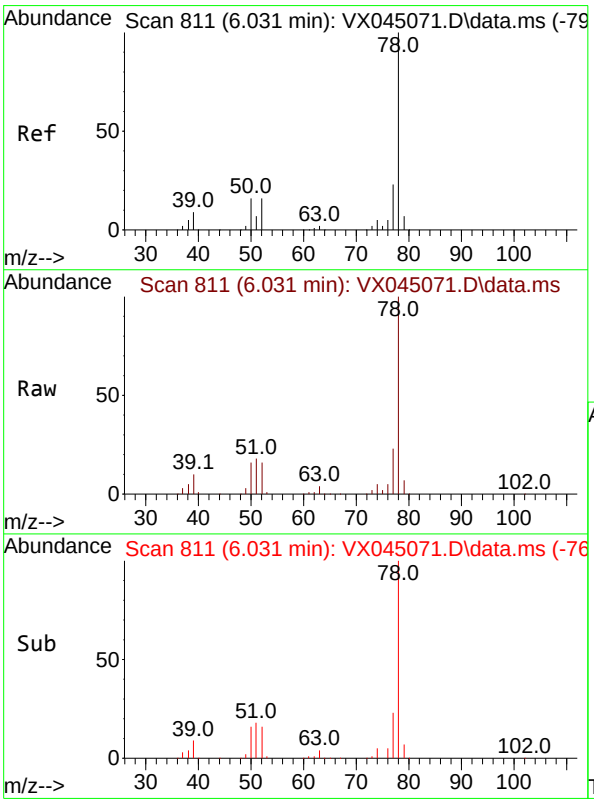
Ion	Ratio	Lower	Upper
83	100		
55	78.7	63.0	94.4
98	49.6	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

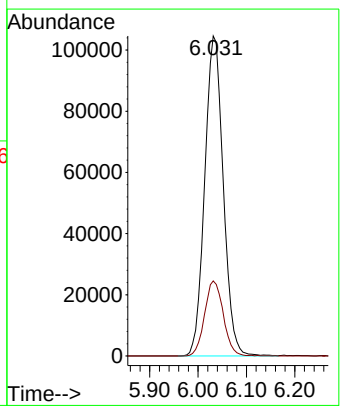
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

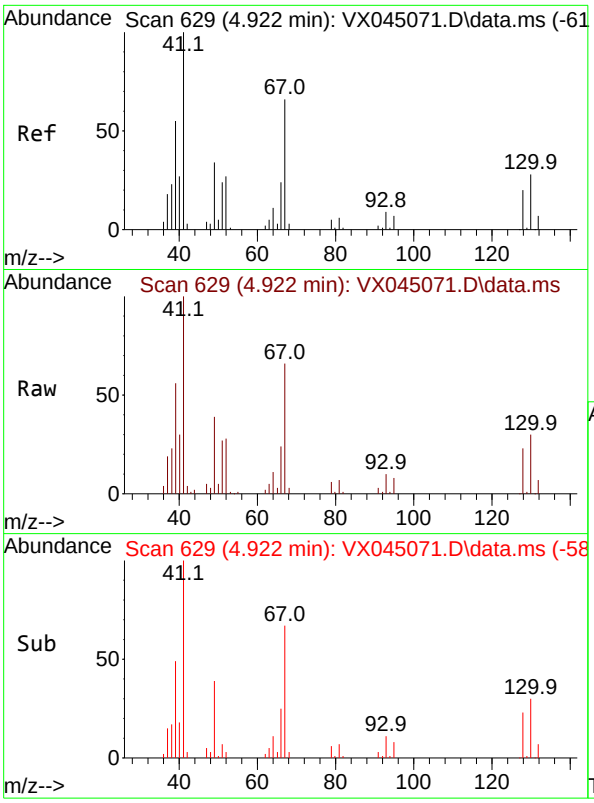


#40
Benzene
Concen: 50.925 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 78 Resp: 278802

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

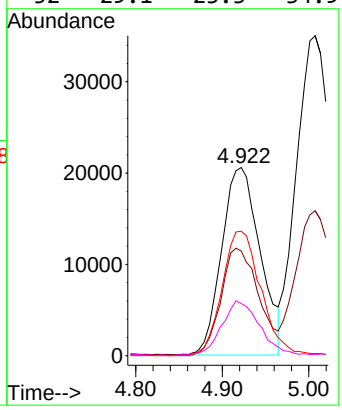




#41
Methacrylonitrile
Concen: 59.598 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 6345

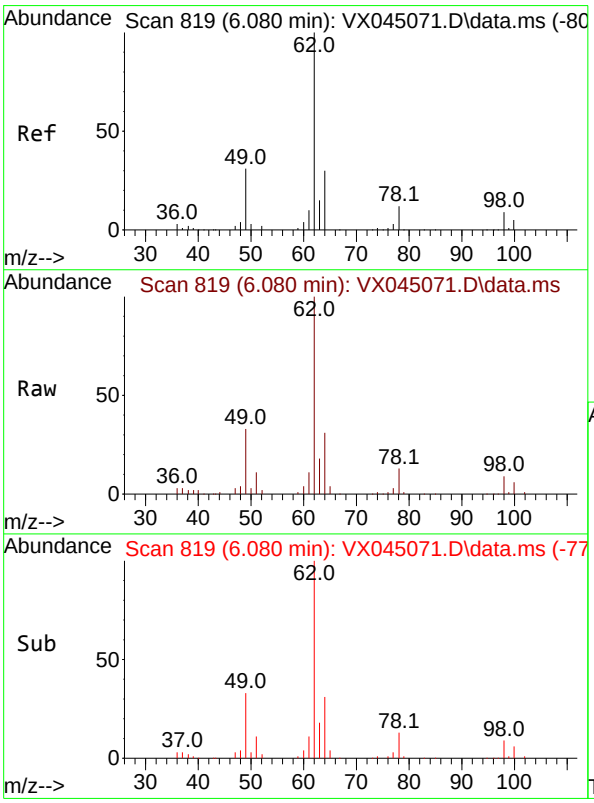
Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.6	67.0
67	67.4	53.9	80.9
52	29.1	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

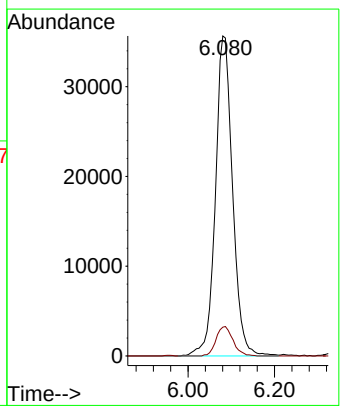
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

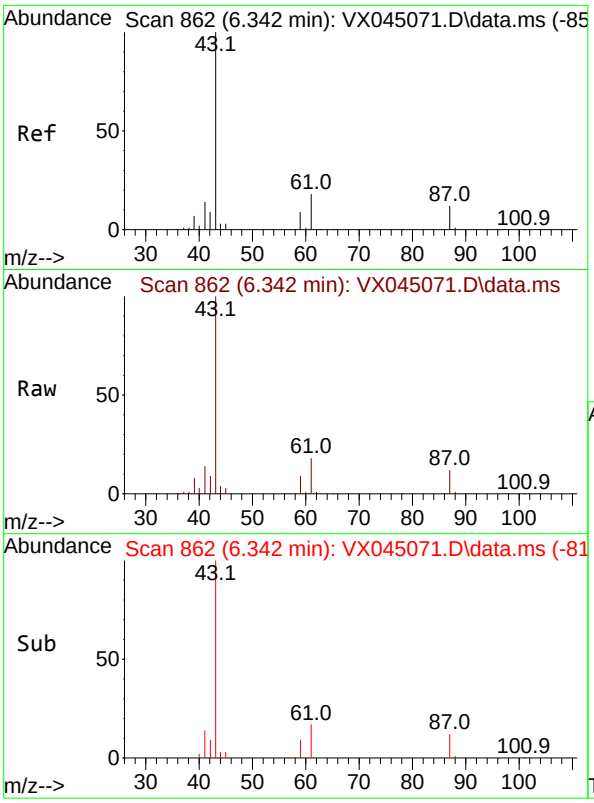


#42
1,2-Dichloroethane
Concen: 55.428 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 98340

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2

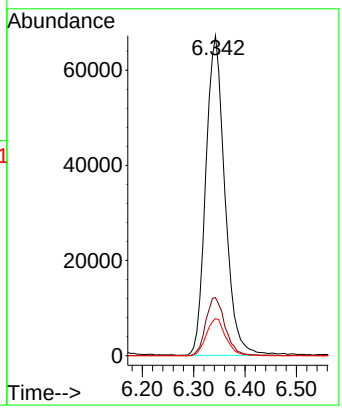




#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 17304

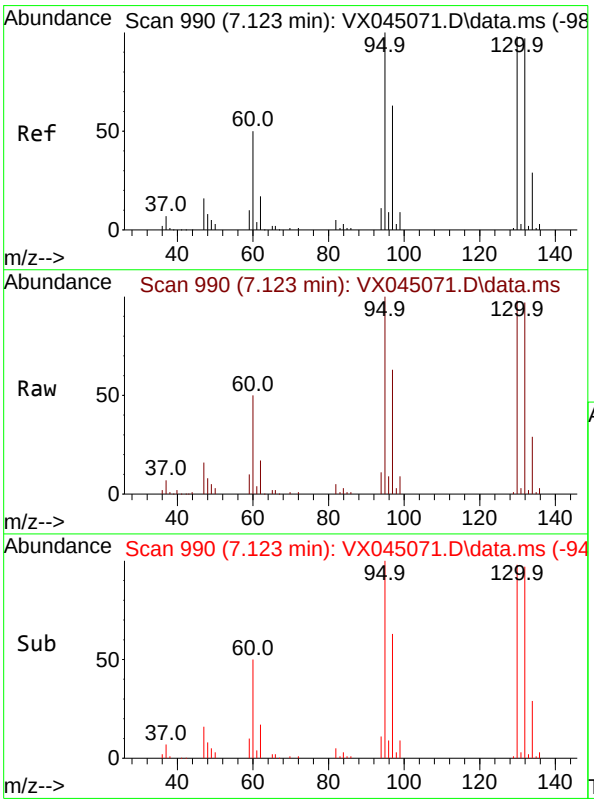
Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.9	22.3
87	11.8	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

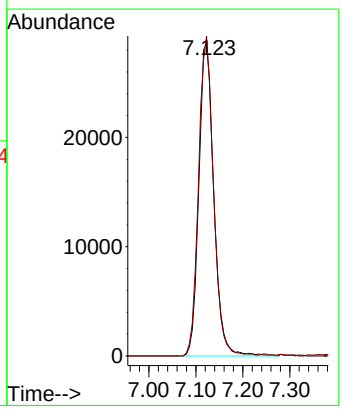
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

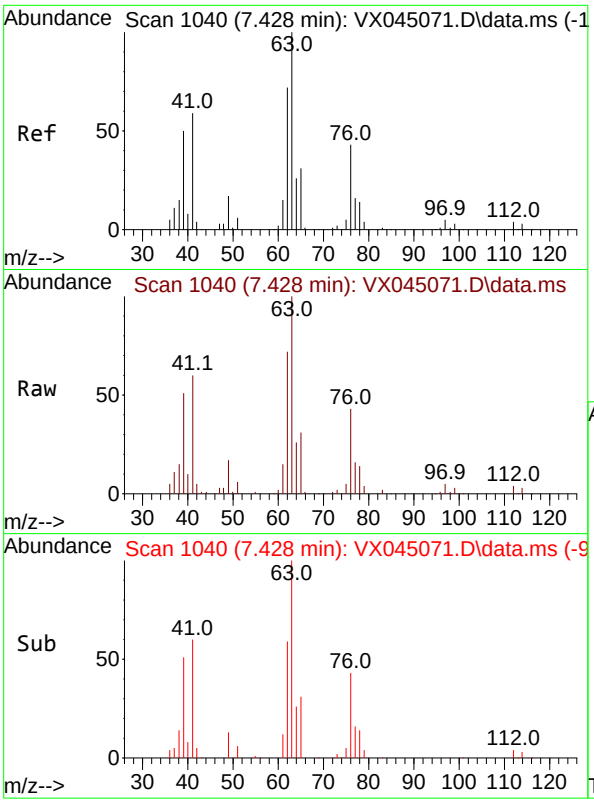


#44
Trichloroethene
Concen: 50.756 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:130 Resp: 63513

Ion	Ratio	Lower	Upper
130	100		
95	102.5	0.0	205.0

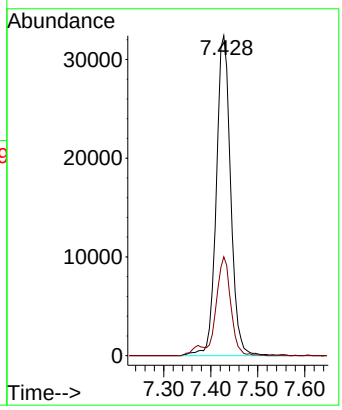




#45
1,2-Dichloropropane
Concen: 50.808 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 6912

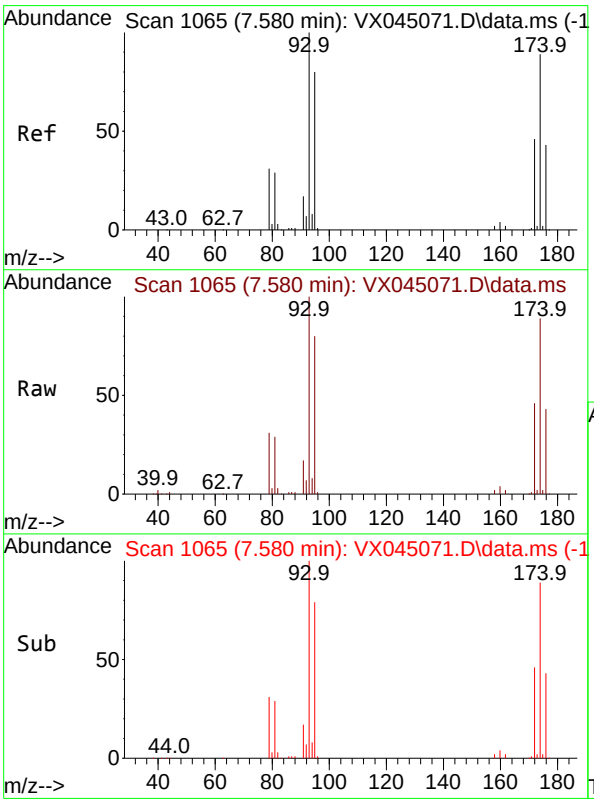
Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

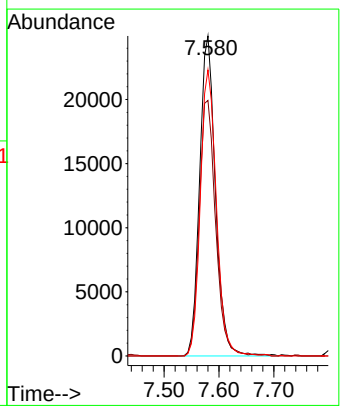
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

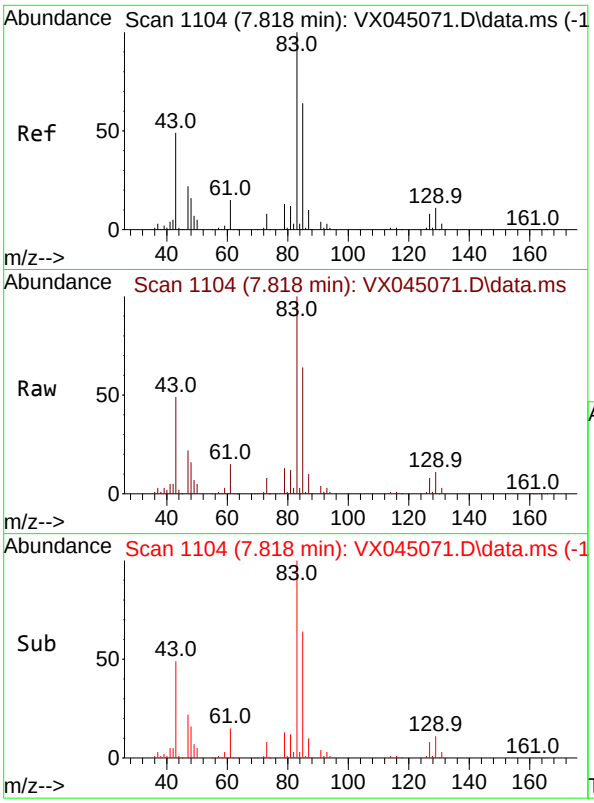


#46
Dibromomethane
Concen: 52.757 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 93 Resp: 50143

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.8	98.8
174	90.2	72.2	108.2

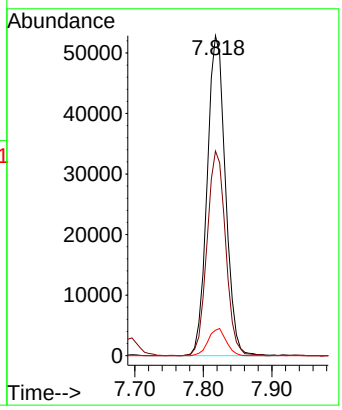




#47
Bromodichloromethane
Concen: 53.153 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 9772

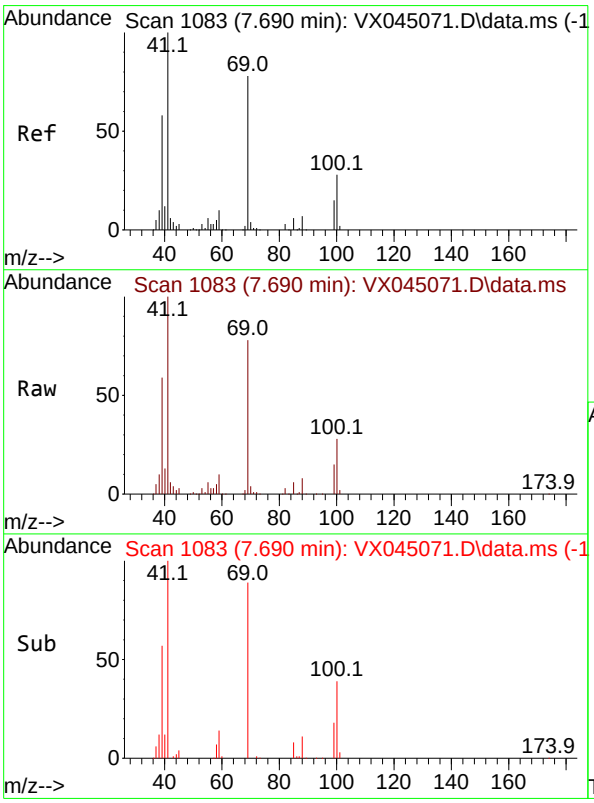
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

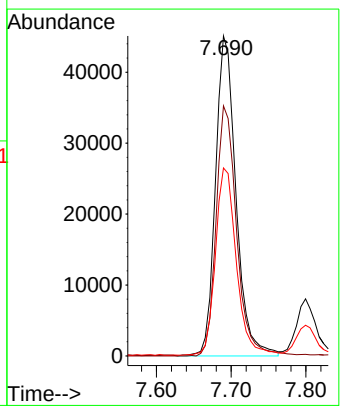
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

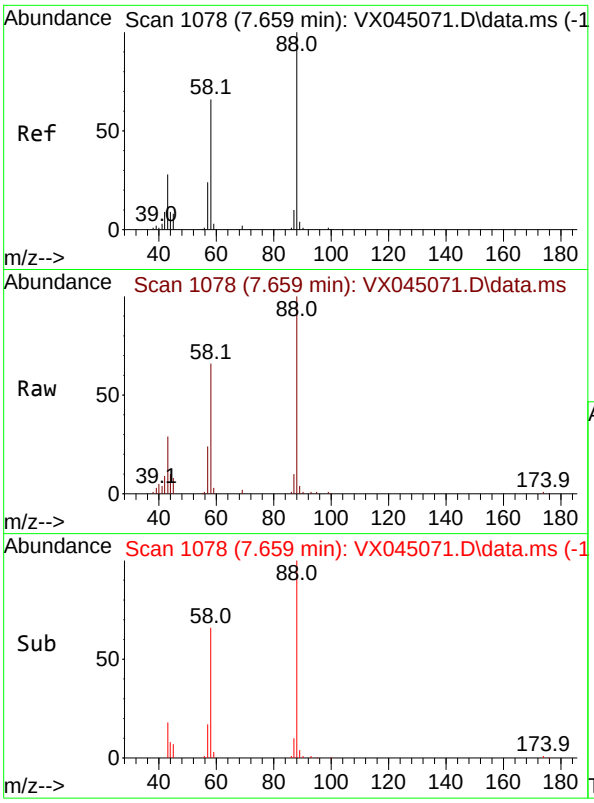


#48
Methyl methacrylate
Concen: 57.256 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 86231

Ion	Ratio	Lower	Upper
41	100		
69	78.8	63.0	94.6
39	59.4	47.5	71.3

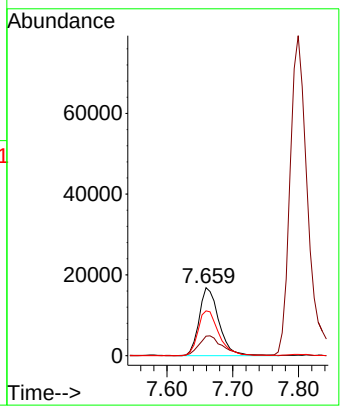




#49
1,4-Dioxane
Concen: 1095.003 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 88 Resp: 3505

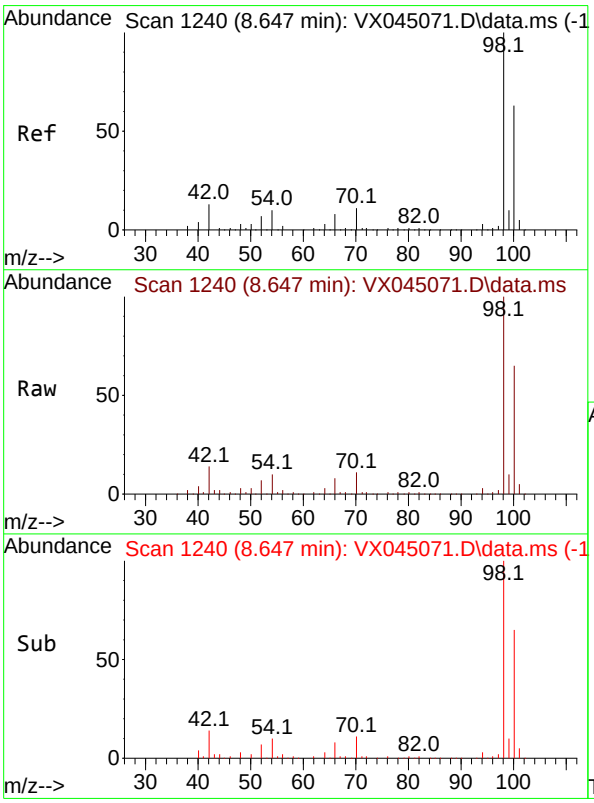
Ion	Ratio	Lower	Upper
88	100		
43	35.9	28.7	43.1
58	69.8	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

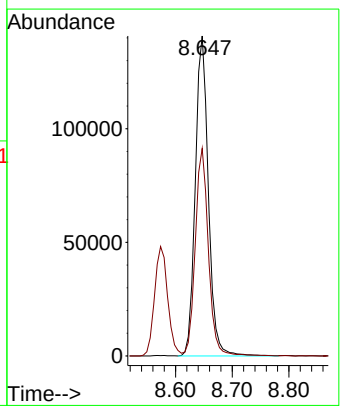
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

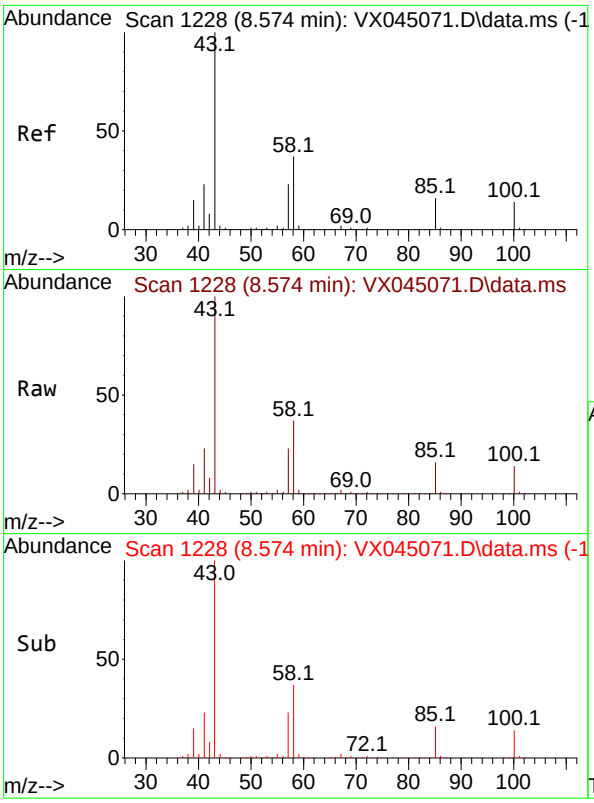


#50
Toluene-d8
Concen: 49.449 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 98 Resp: 225493

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0

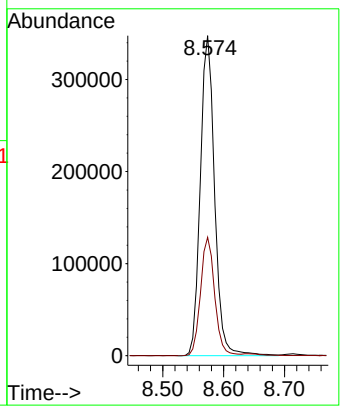




#51
4-Methyl-2-Pentanone
Concen: 292.570 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 56873

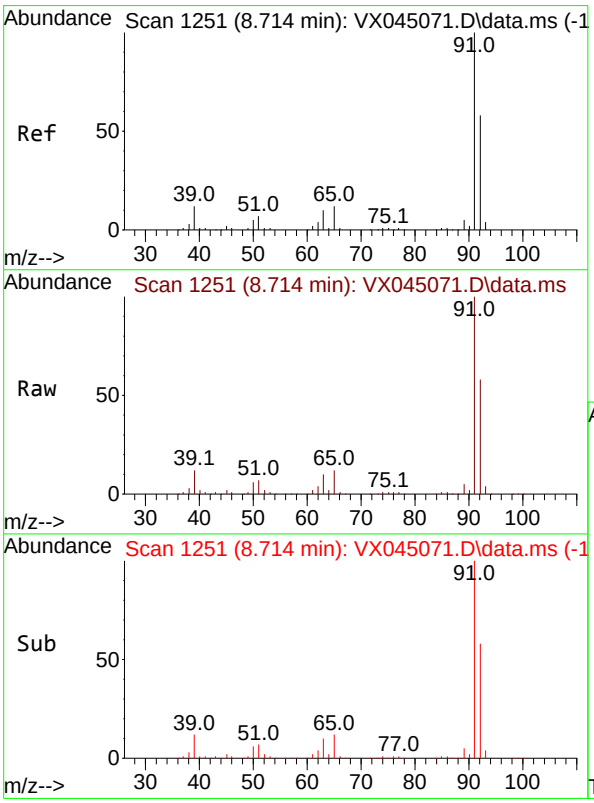
Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

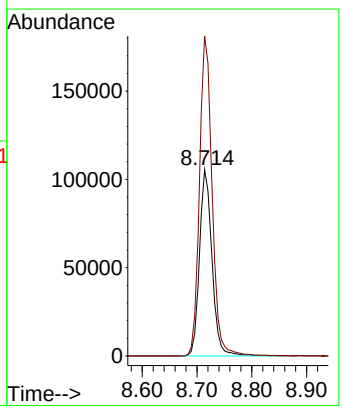
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

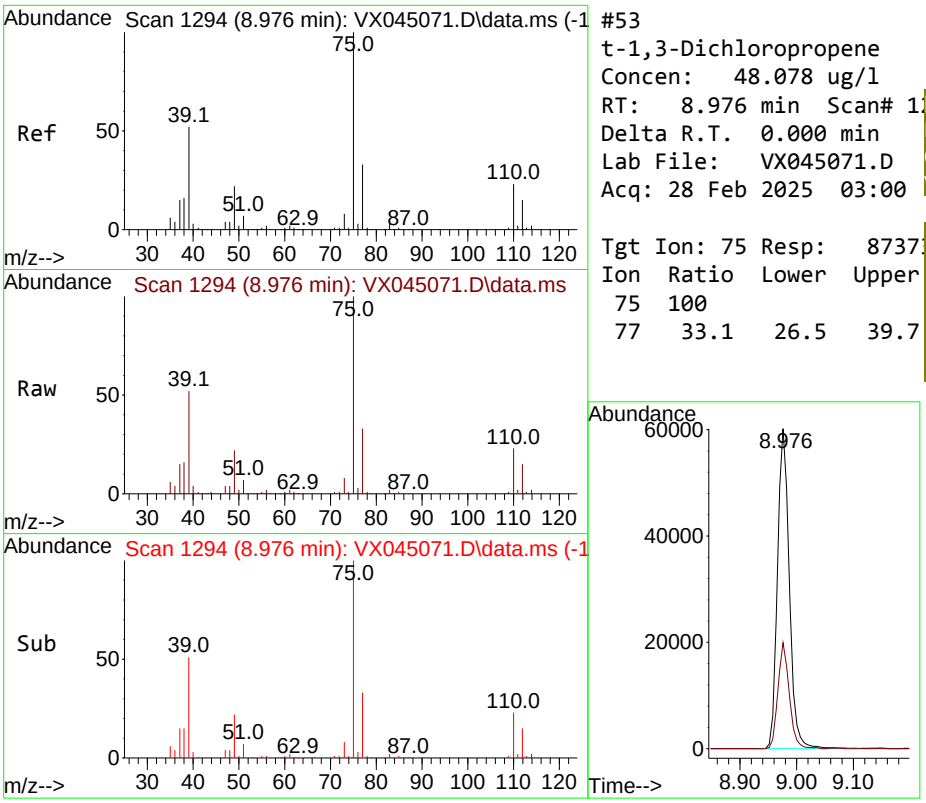


#52
Toluene
Concen: 51.505 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 92 Resp: 167431

Ion	Ratio	Lower	Upper
92	100		
91	173.6	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 48.078 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

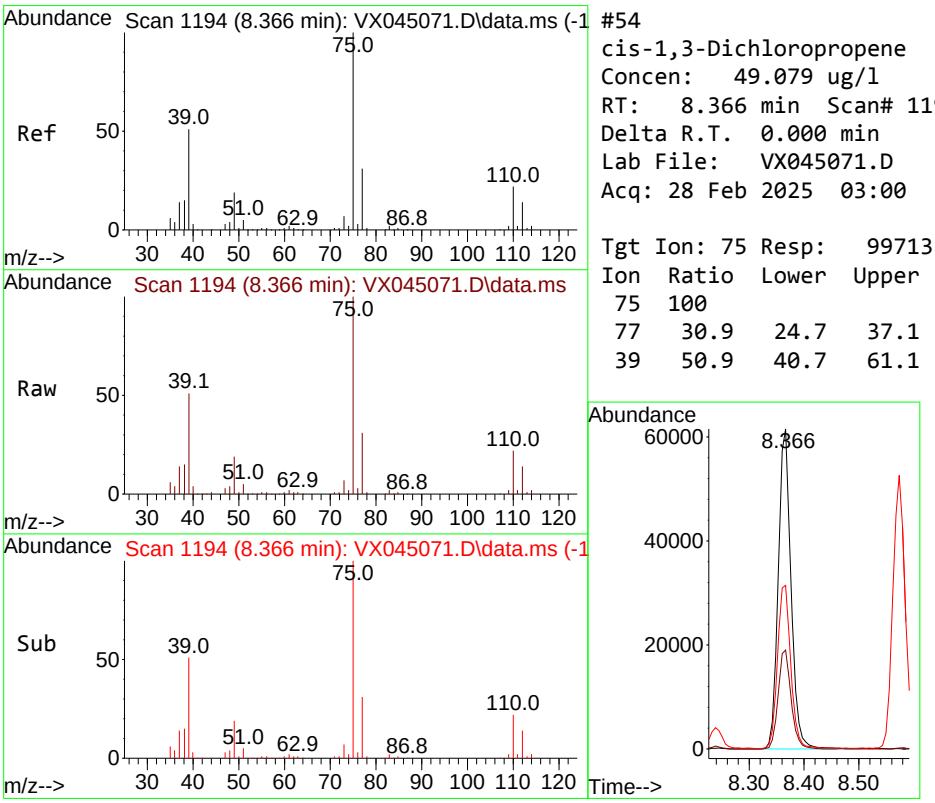
Tgt Ion: 75 Resp: 8737

Ion	Ratio	Lower	Upper
75	100		
77	33.1	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

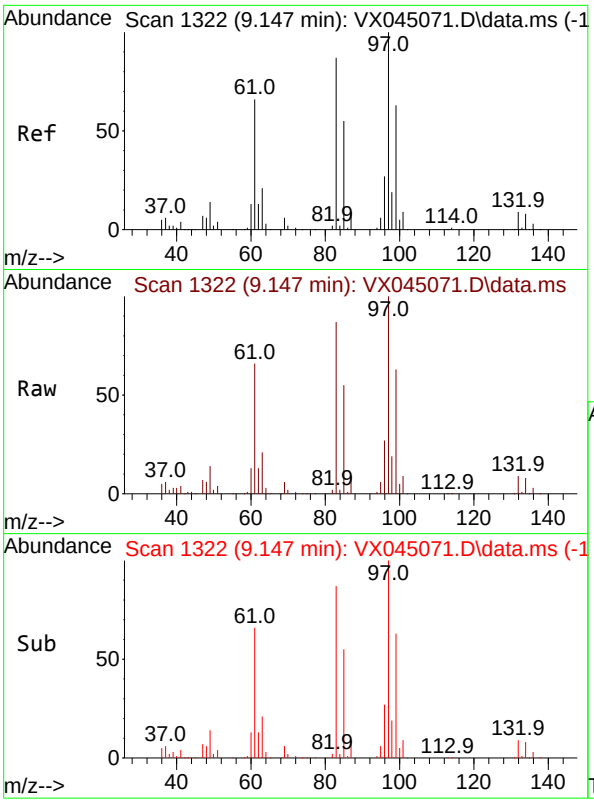
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#54
cis-1,3-Dichloropropene
Concen: 49.079 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 99713

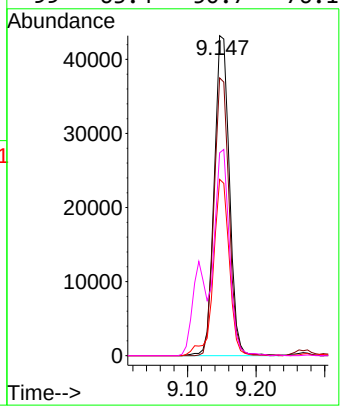
Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.9	40.7	61.1



#55
1,1,2-Trichloroethane
Concen: 52.724 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 97 Resp: 6637

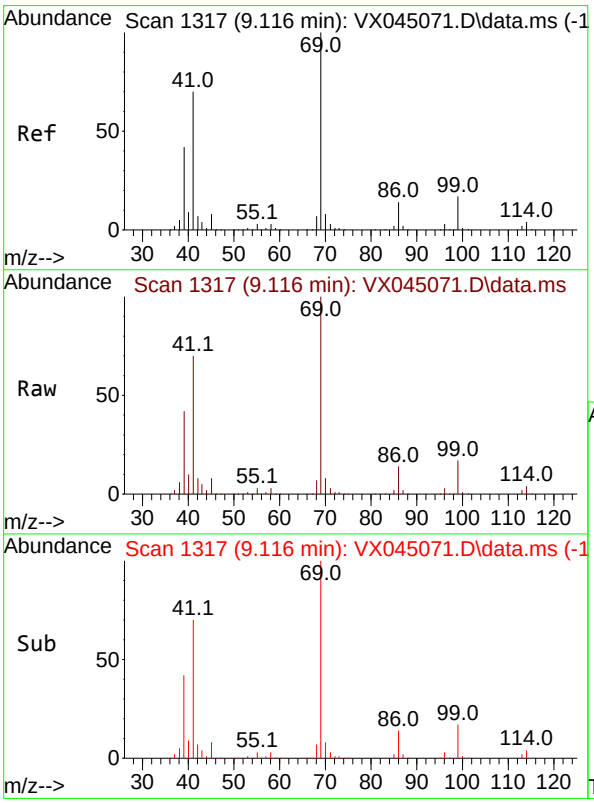
Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.4	104.2
85	55.1	44.1	66.1
99	63.4	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

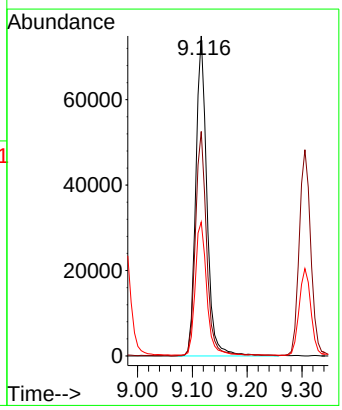
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

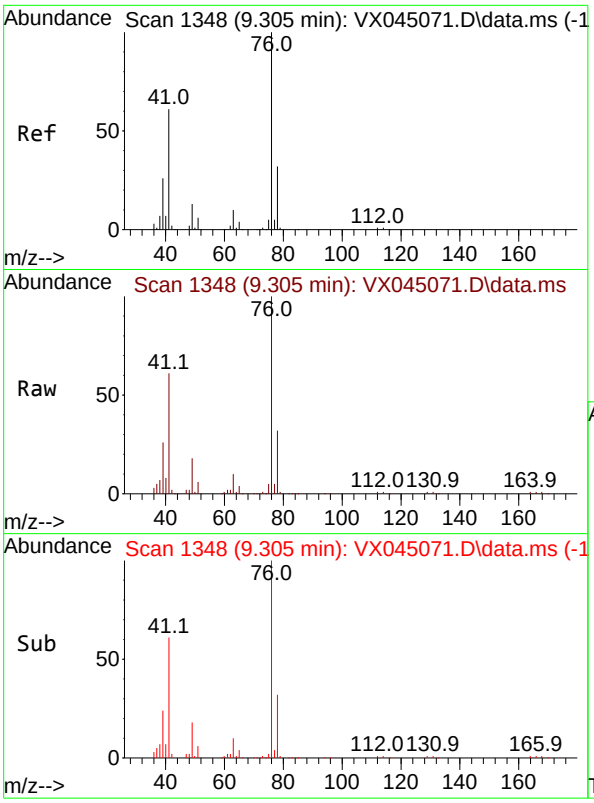


#56
Ethyl methacrylate
Concen: 52.724 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 69 Resp: 106157

Ion	Ratio	Lower	Upper
69	100		
41	71.2	57.0	85.4
39	42.8	34.2	51.4

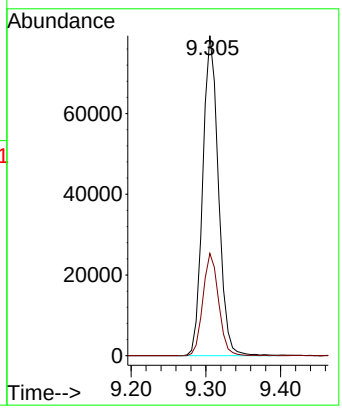




#57
1,3-Dichloropropane
Concen: 52.594 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 76 Resp: 11548

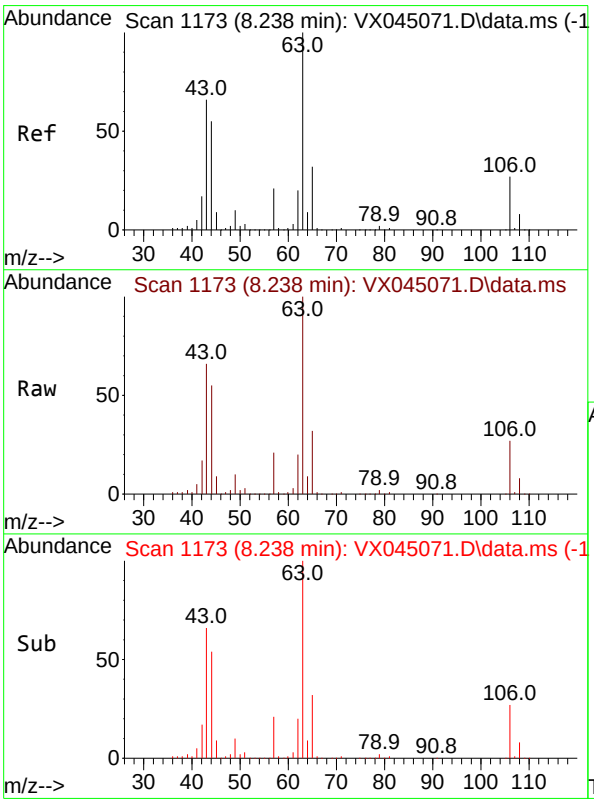
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

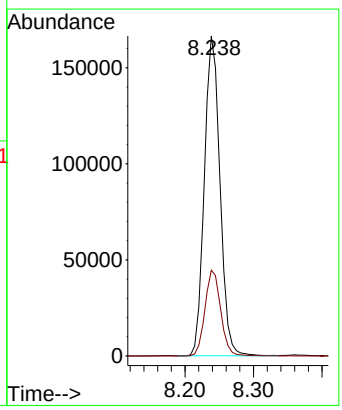
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

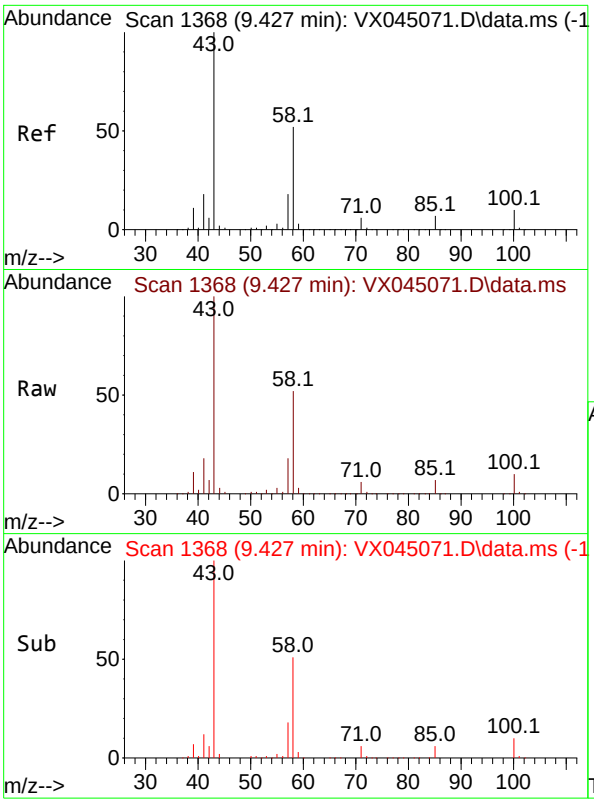


#58
2-Chloroethyl Vinyl ether
Concen: 267.612 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 264555

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.5	32.3





#59
2-Hexanone
Concen: 297.362 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

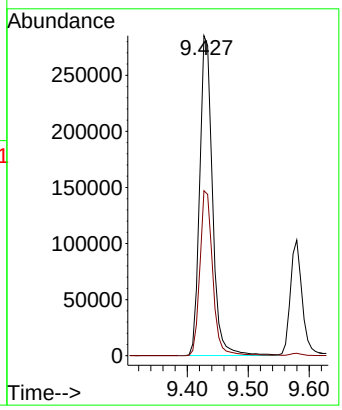
Tgt Ion: 43 Resp: 41698

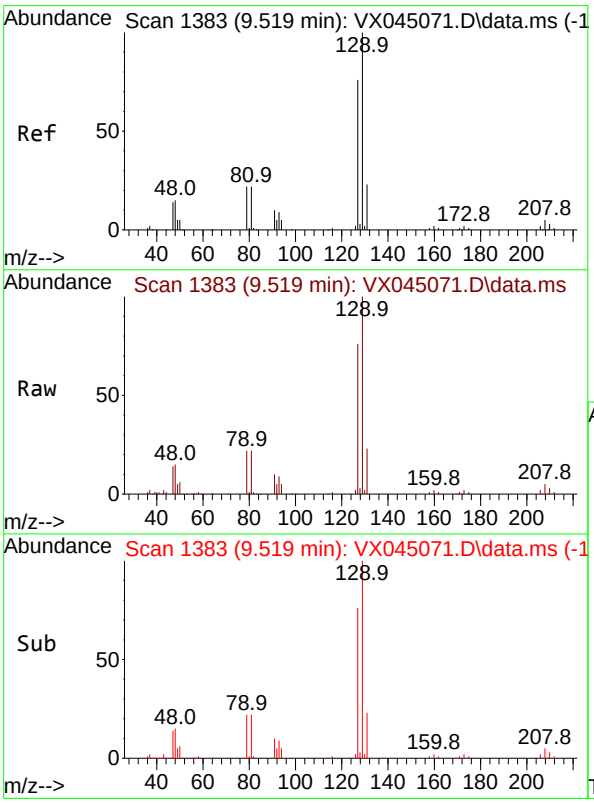
Ion	Ratio	Lower	Upper
43	100		
58	51.7	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

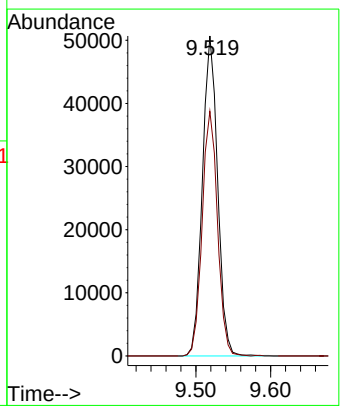


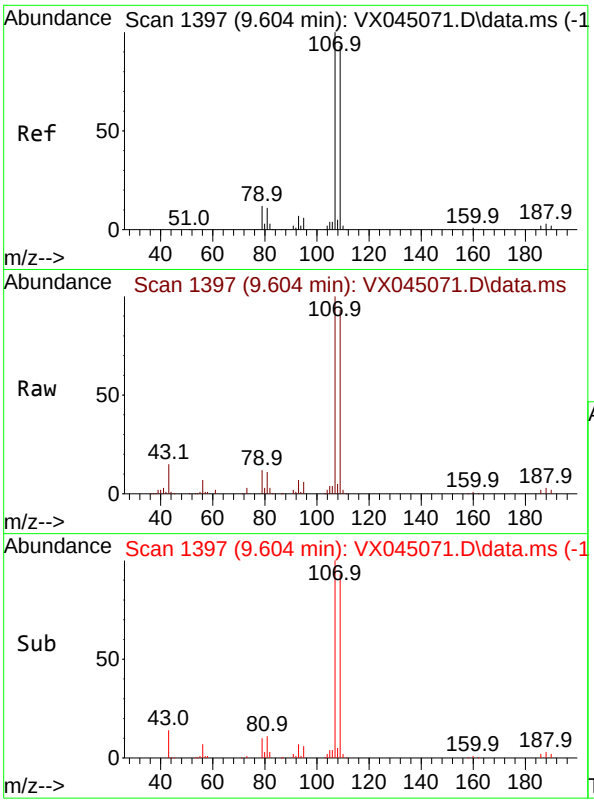


#60
Dibromochloromethane
Concen: 53.284 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:129 Resp: 71569

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5

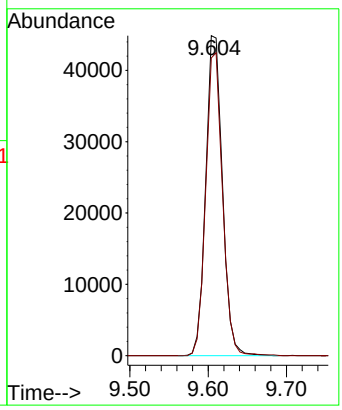




#61
1,2-Dibromoethane
Concen: 52.217 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:107 Resp: 6631

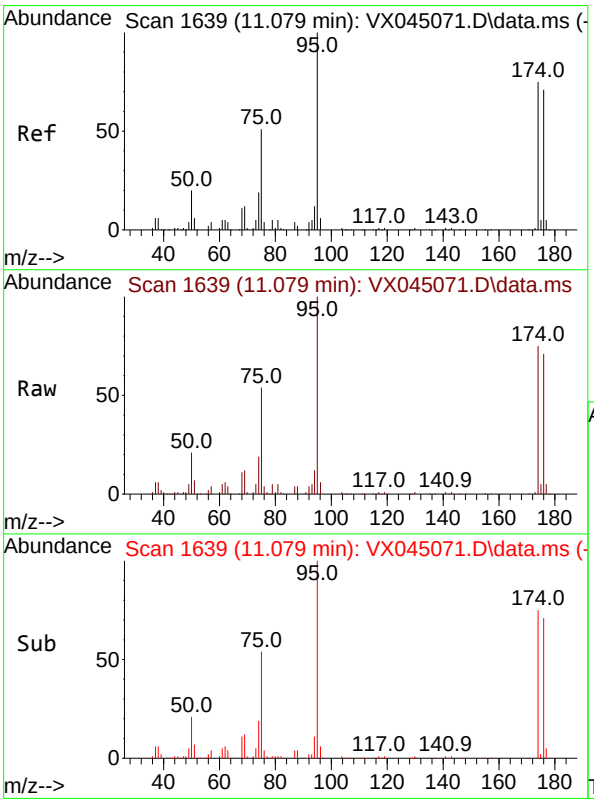
Ion	Ratio	Lower	Upper
107	100		
109	95.1	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

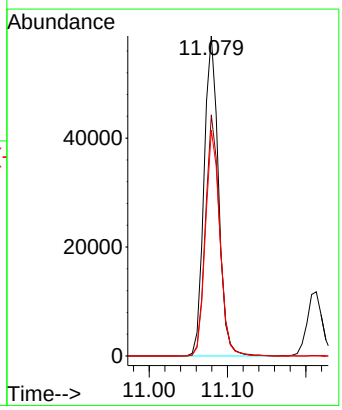
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

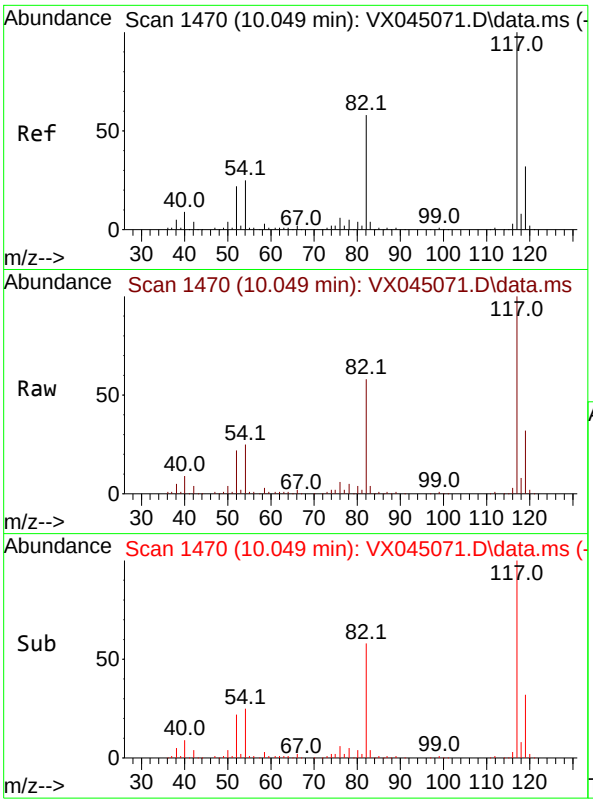


#62
4-Bromofluorobenzene
Concen: 49.212 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 95 Resp: 74945

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	148.2
176	70.7	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

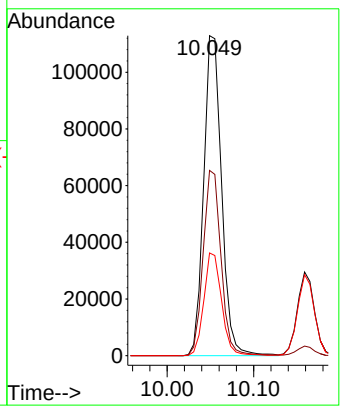
Tgt Ion:117 Resp: 16207

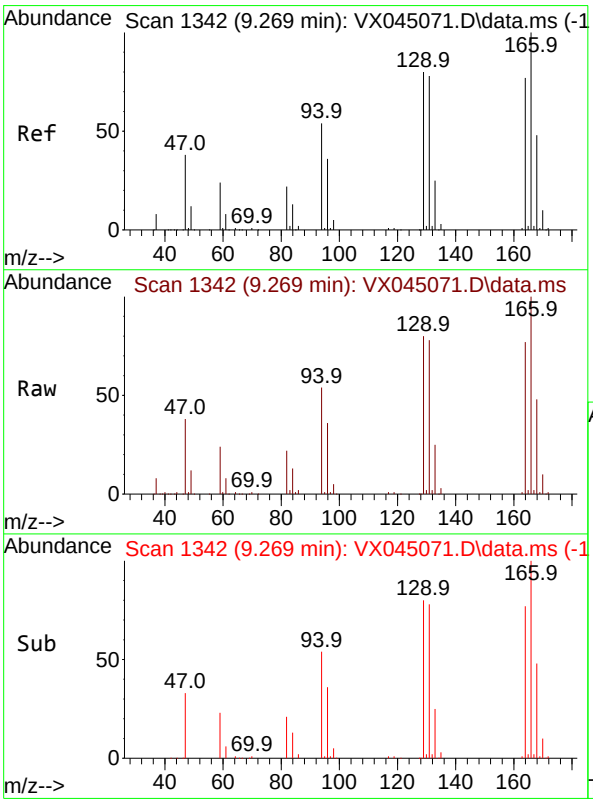
Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.3	69.5
119	32.1	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

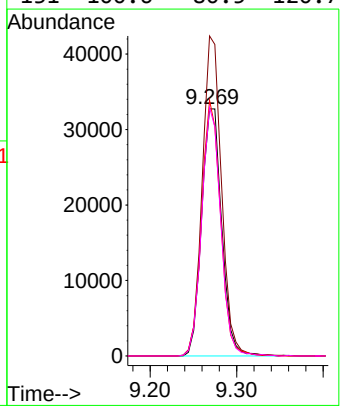


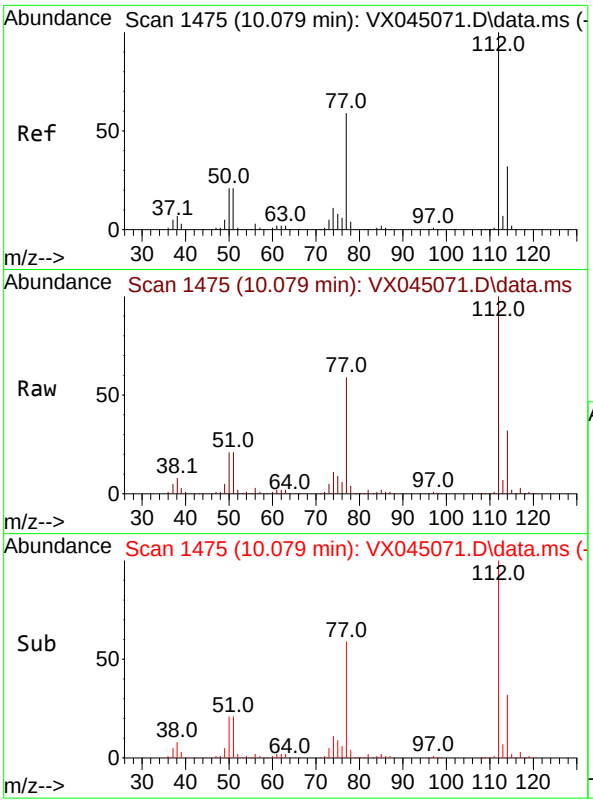


#64
Tetrachloroethene
Concen: 51.021 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:164 Resp: 52531

Ion	Ratio	Lower	Upper
164	100		
166	129.5	103.6	155.4
129	103.4	82.7	124.1
131	100.6	80.5	120.7

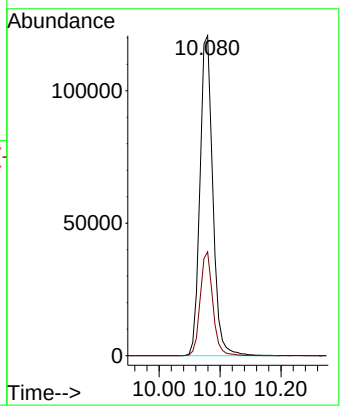




#65
Chlorobenzene
Concen: 50.853 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:112 Resp: 17692

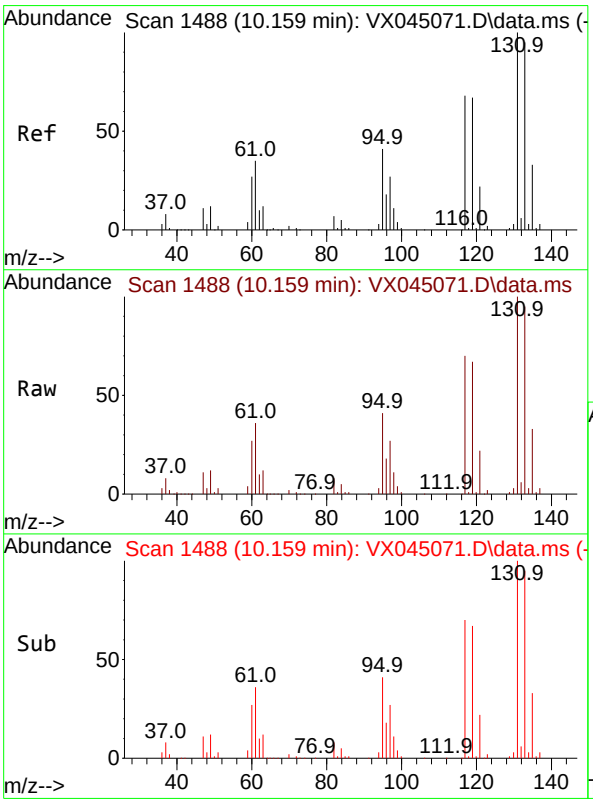
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

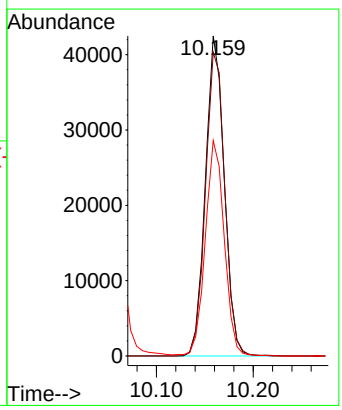
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

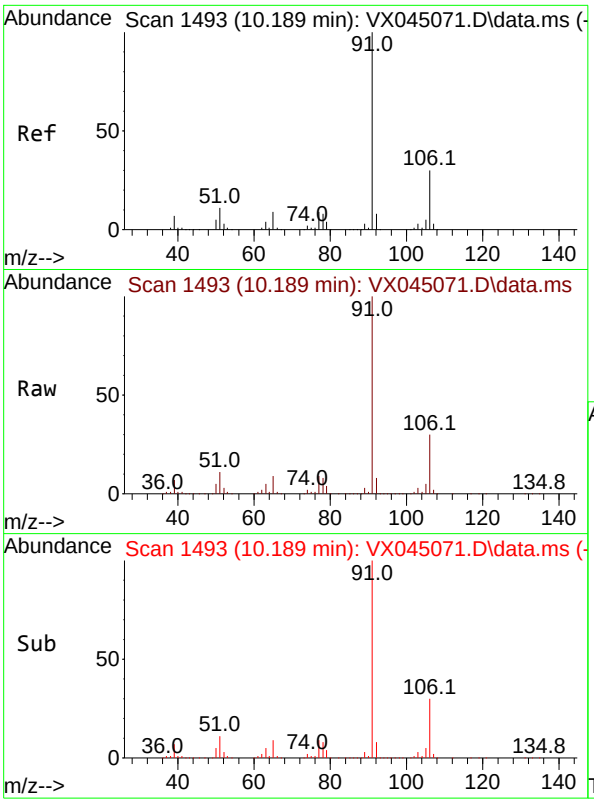


#66
1,1,1,2-Tetrachloroethane
Concen: 51.402 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:131 Resp: 57642

Ion	Ratio	Lower	Upper
131	100		
133	97.3	48.6	145.9
119	67.8	33.9	101.7

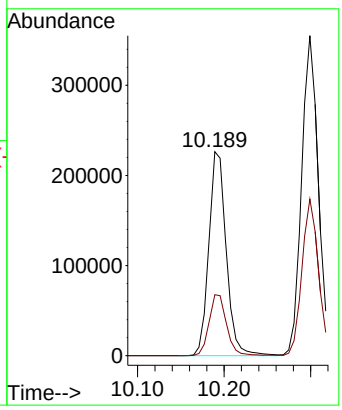




#67
Ethyl Benzene
Concen: 51.431 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 31642

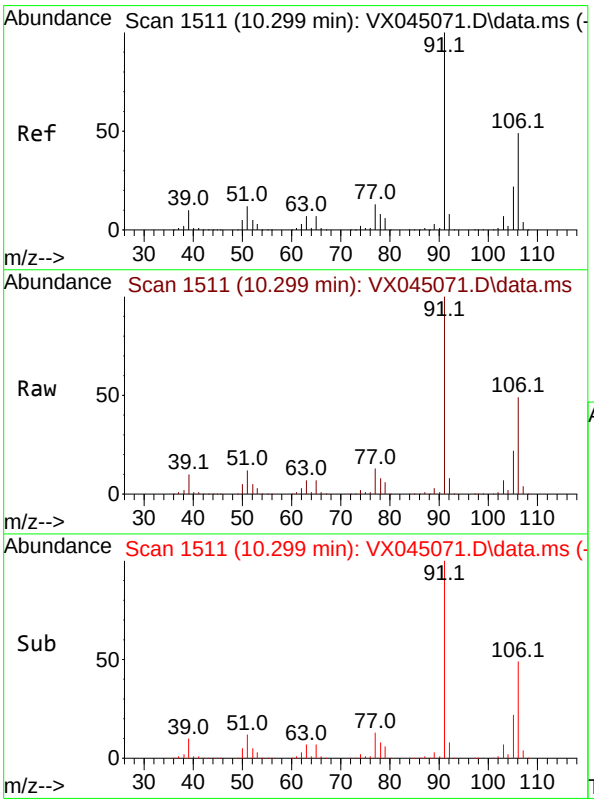
Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

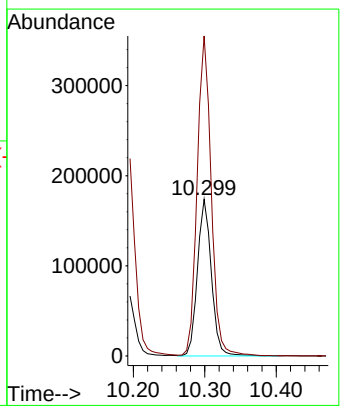
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

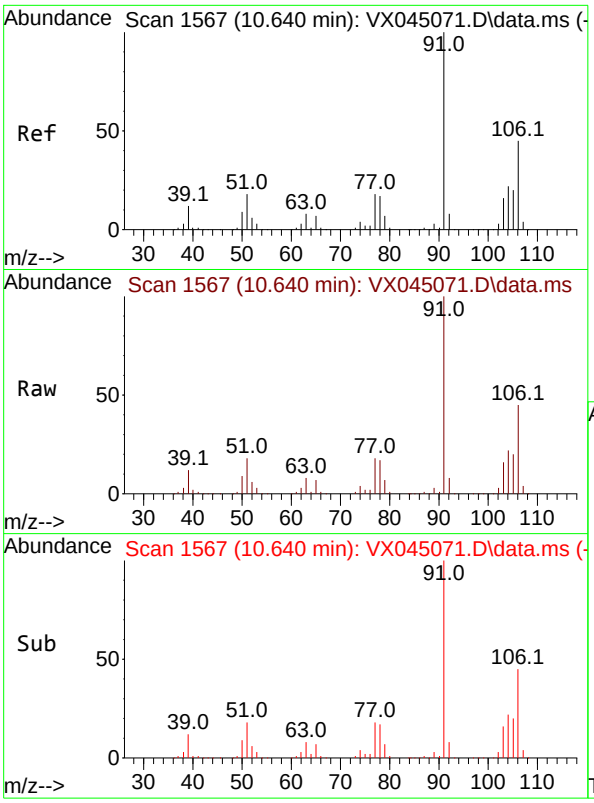


#68
m/p-Xylenes
Concen: 103.515 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:106 Resp: 234554

Ion	Ratio	Lower	Upper
106	100		
91	206.7	165.4	248.0

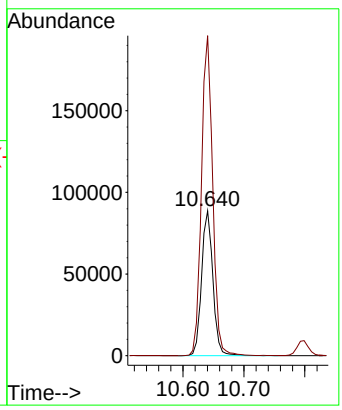




#69
o-Xylene
Concen: 50.341 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:106 Resp: 11444

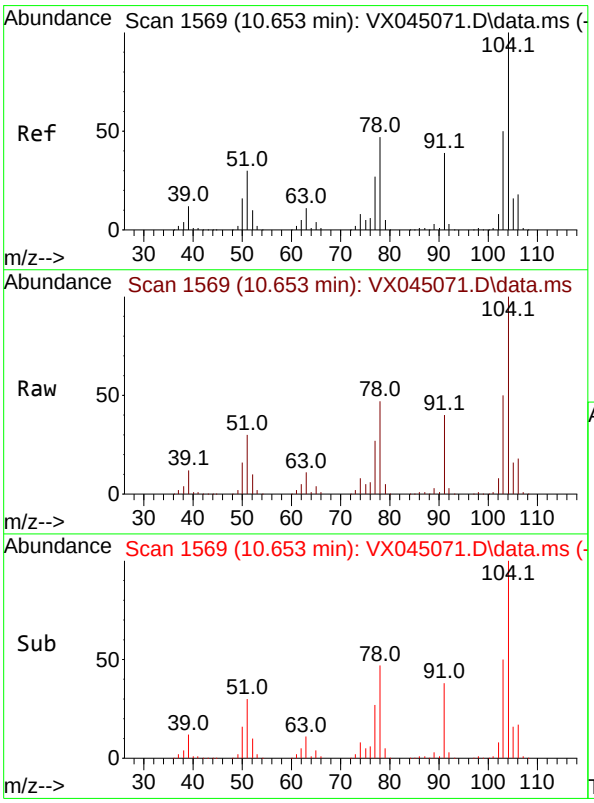
Ion	Ratio	Lower	Upper
106	100		
91	219.7	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

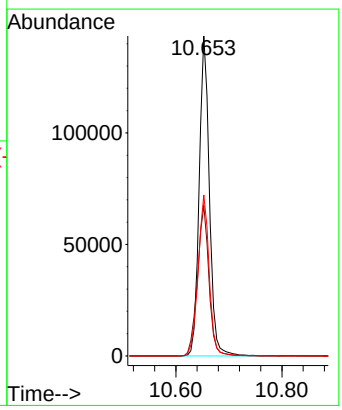
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

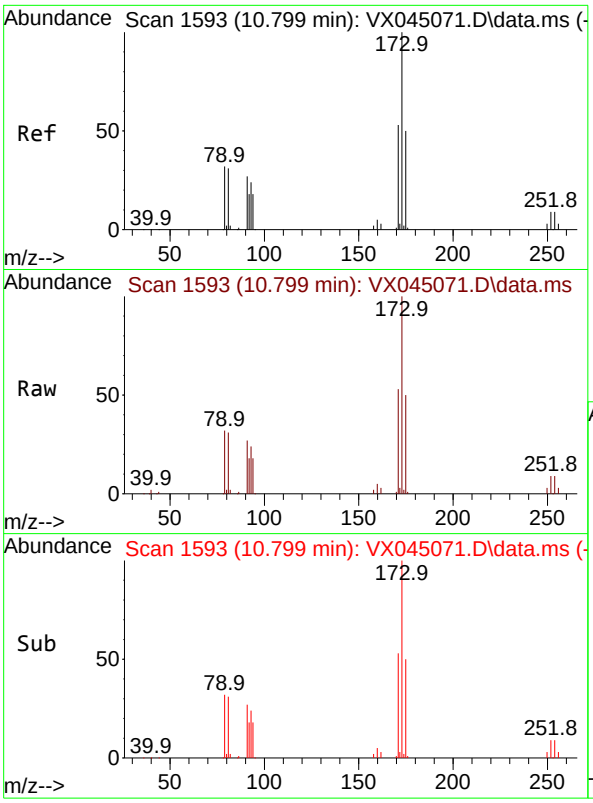


#70
Styrene
Concen: 52.387 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:104 Resp: 191406

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.8	43.8	65.8

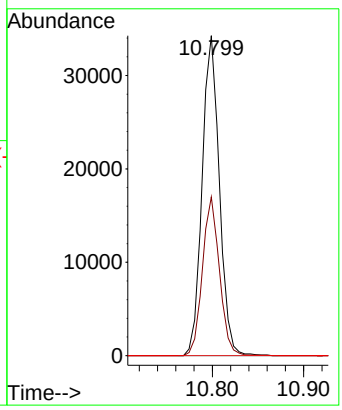




#71
Bromoform
Concen: 53.645 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:173 Resp: 4473

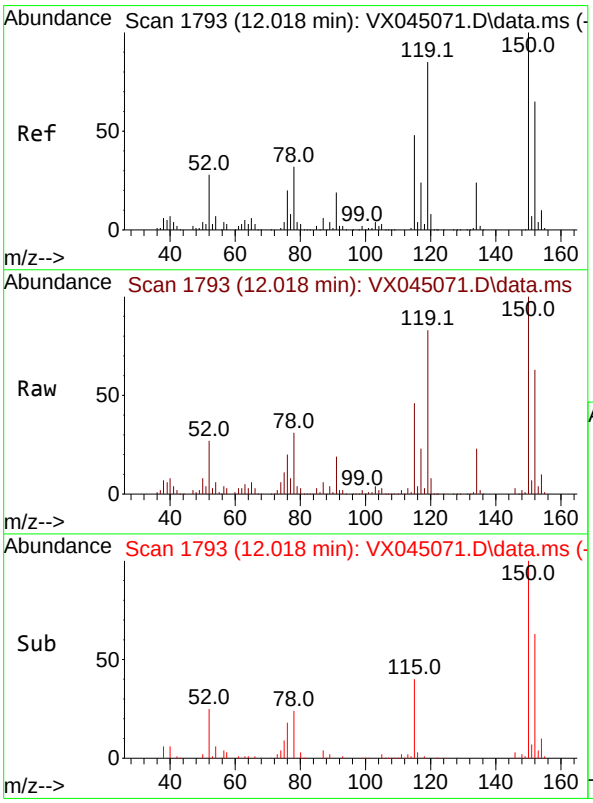
Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

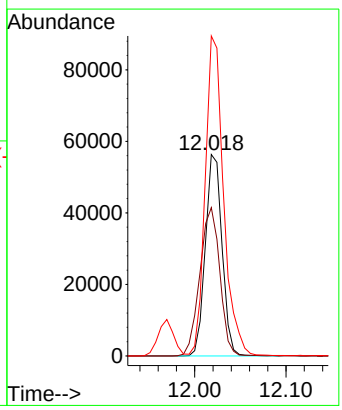
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

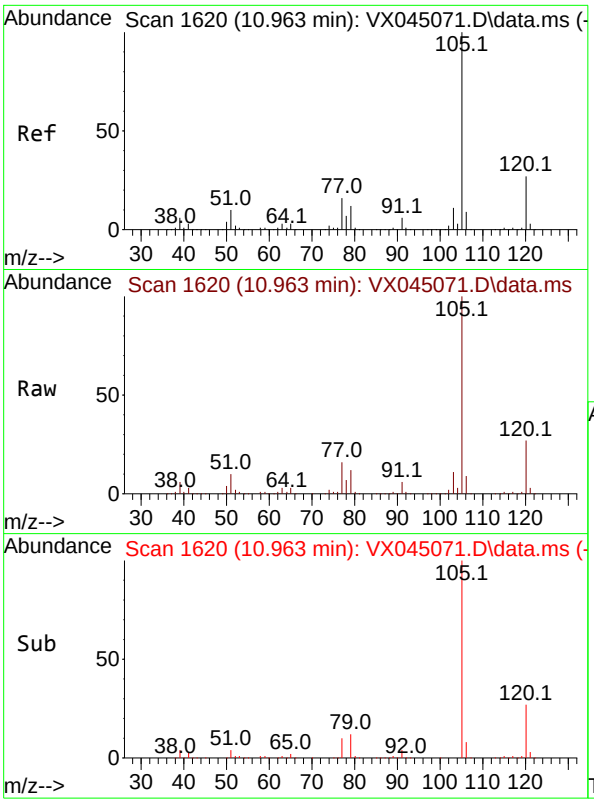


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:152 Resp: 71264

Ion	Ratio	Lower	Upper
152	100		
115	88.4	44.2	132.6
150	174.5	0.0	349.0

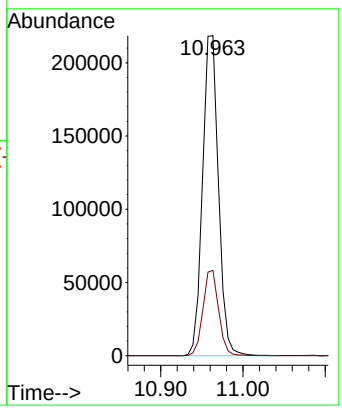




#73
Isopropylbenzene
Concen: 51.167 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 29469

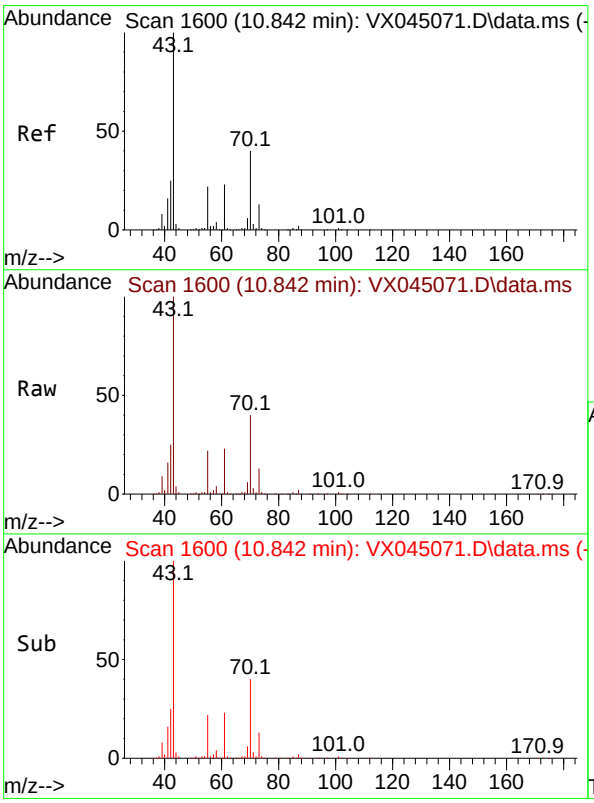
Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

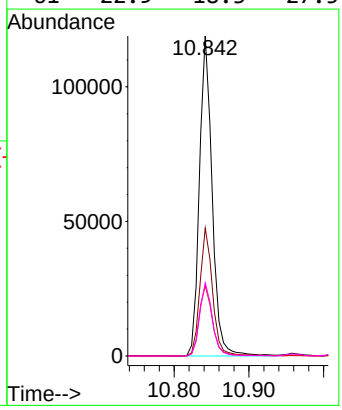
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

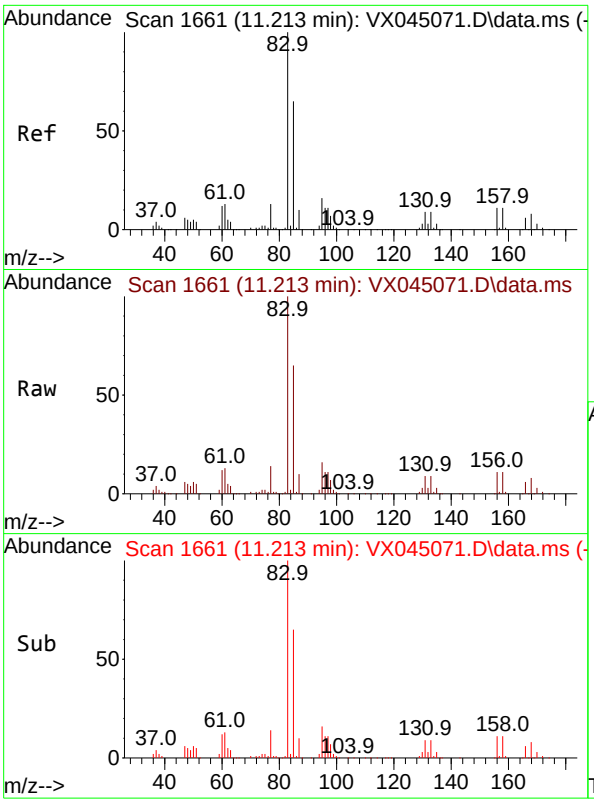


#74
N-amyl acetate
Concen: 53.881 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 140869

Ion	Ratio	Lower	Upper
43	100		
70	39.7	31.8	47.6
55	22.9	18.3	27.5
61	22.9	18.3	27.5

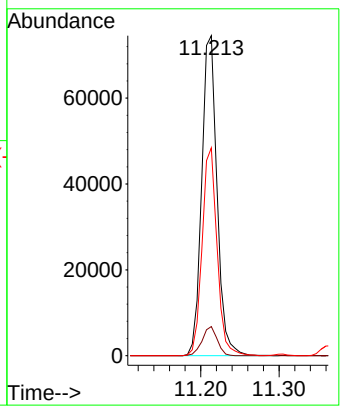




#75
1,1,2,2-Tetrachloroethane
Concen: 50.945 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 10108

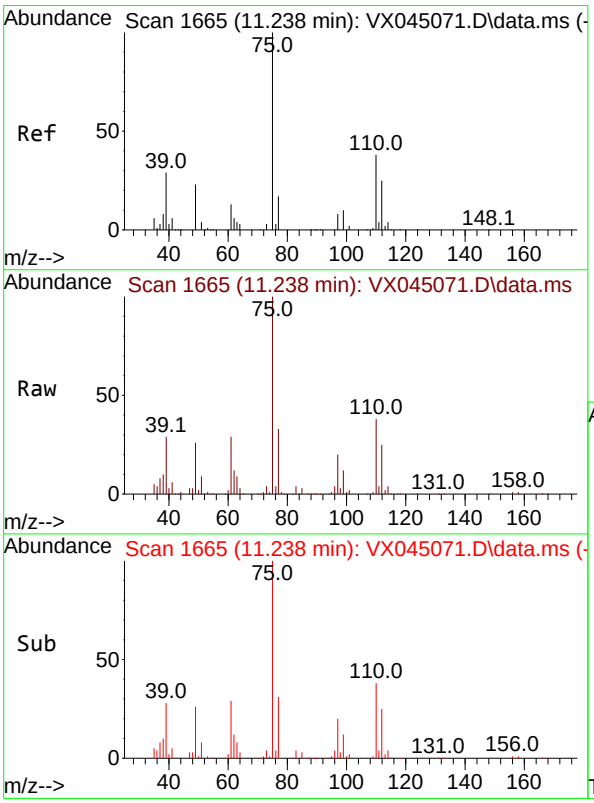
Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.4
85	63.4	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

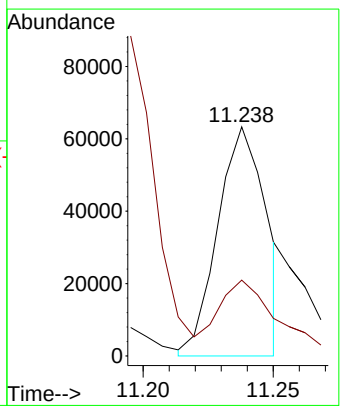
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

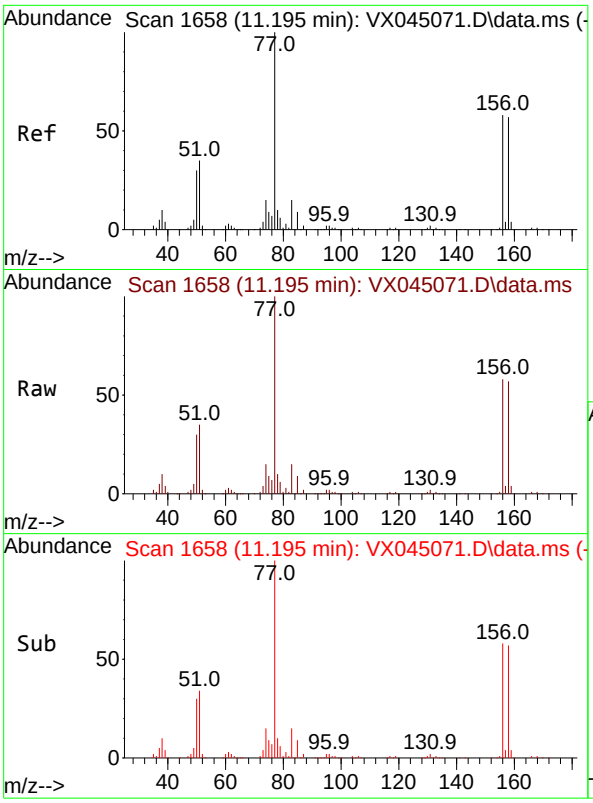


#76
1,2,3-Trichloropropane
Concen: 51.421 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 81743

Ion	Ratio	Lower	Upper
75	100		
77	41.4	20.7	62.1

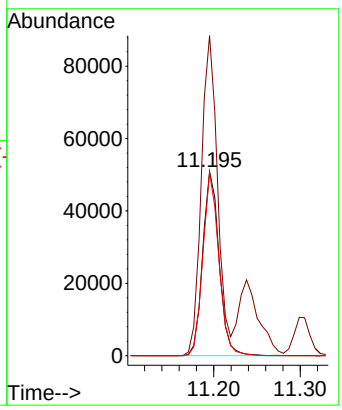




#77
Bromobenzene
Concen: 51.173 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:156 Resp: 6690

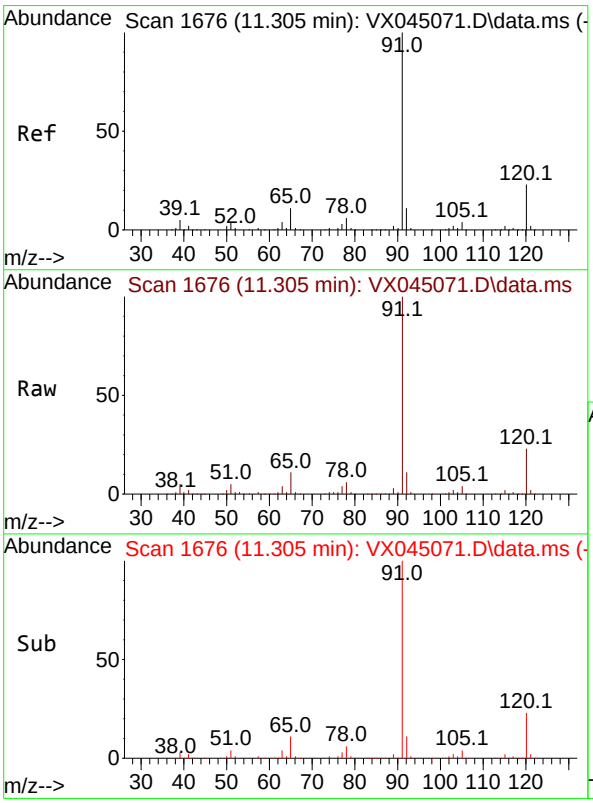
Ion	Ratio	Lower	Upper
156	100		
77	171.6	85.8	257.4
158	96.8	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

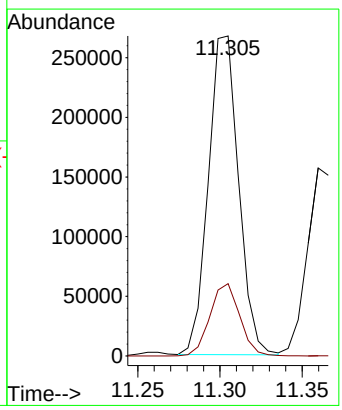
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

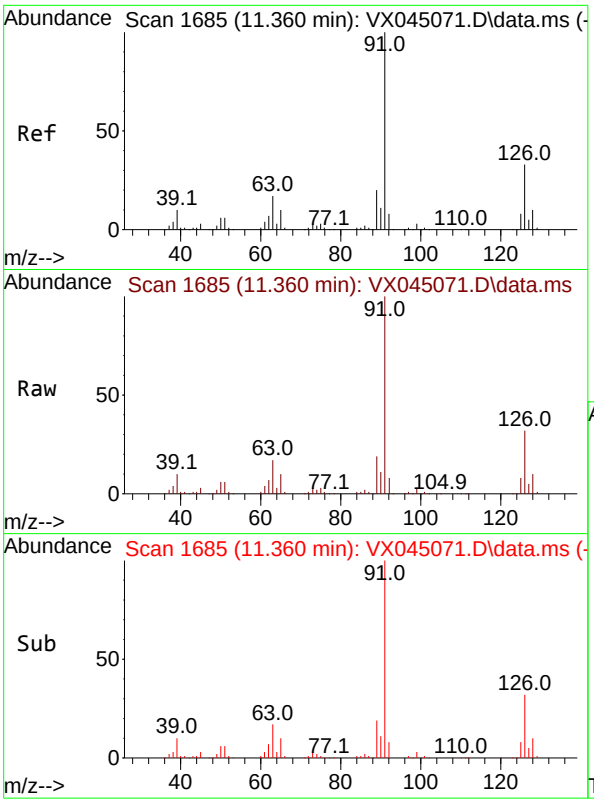


#78
n-propylbenzene
Concen: 51.546 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 342399

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.2	33.6

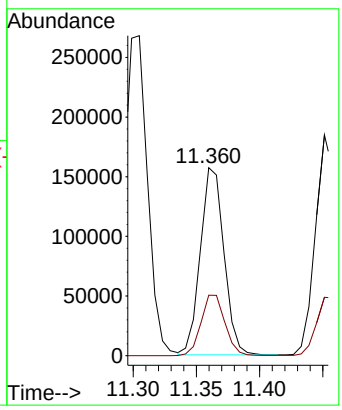




#79
2-Chlorotoluene
Concen: 50.154 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 20448

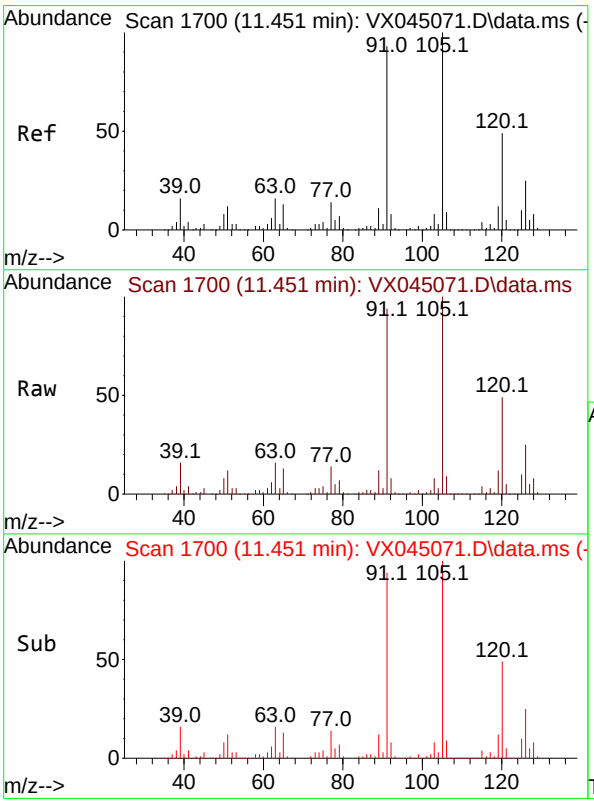
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

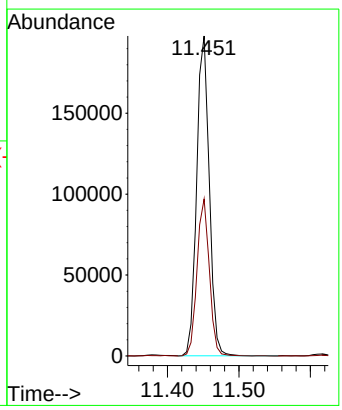
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

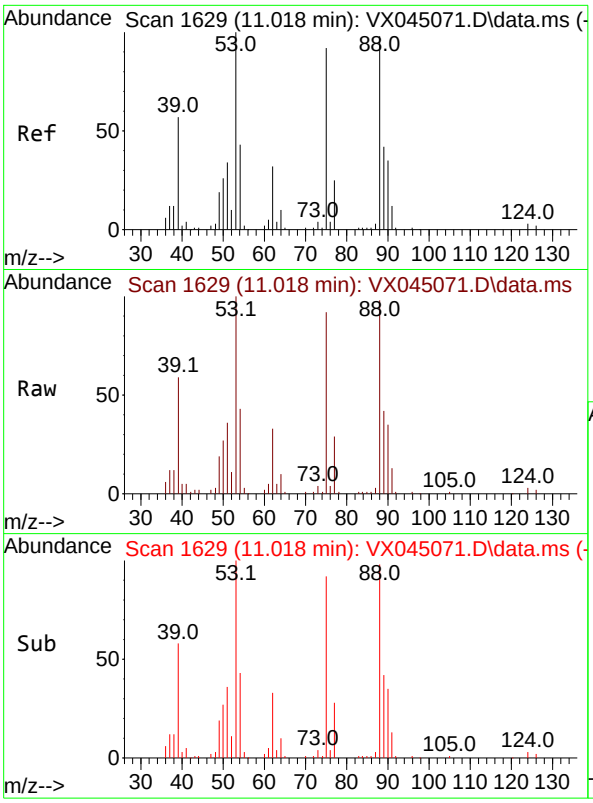


#80
1,3,5-Trimethylbenzene
Concen: 51.613 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 241129

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.1	72.2

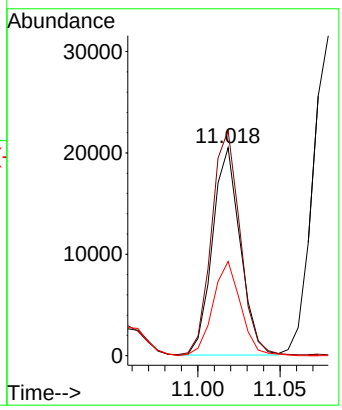




#81
trans-1,4-Dichloro-2-butene
Concen: 41.172 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 2413

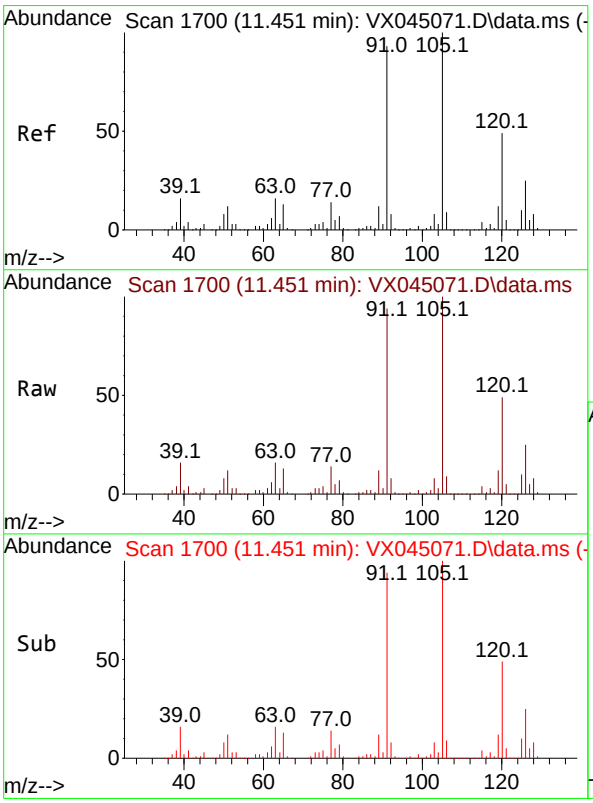
Ion	Ratio	Lower	Upper
75	100		
53	110.6	88.5	132.7
89	45.3	36.2	54.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

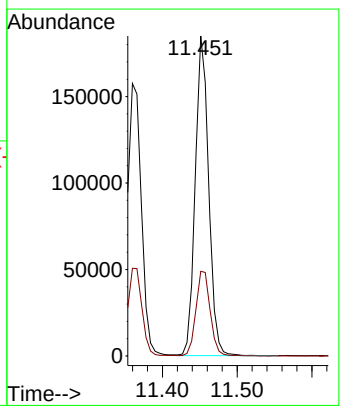
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

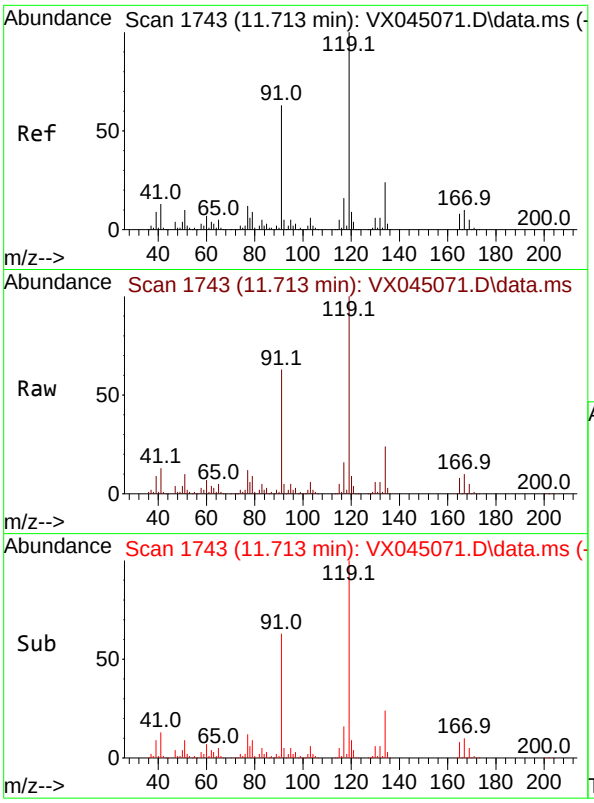


#82
4-Chlorotoluene
Concen: 51.072 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 230493

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.1	42.4

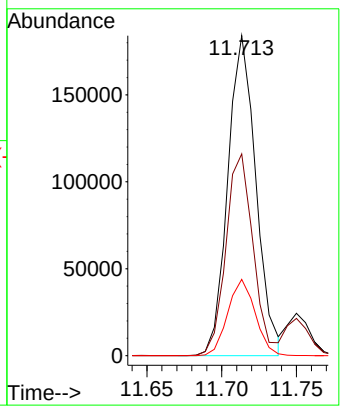




#83
tert-Butylbenzene
Concen: 50.895 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:119 Resp: 24051

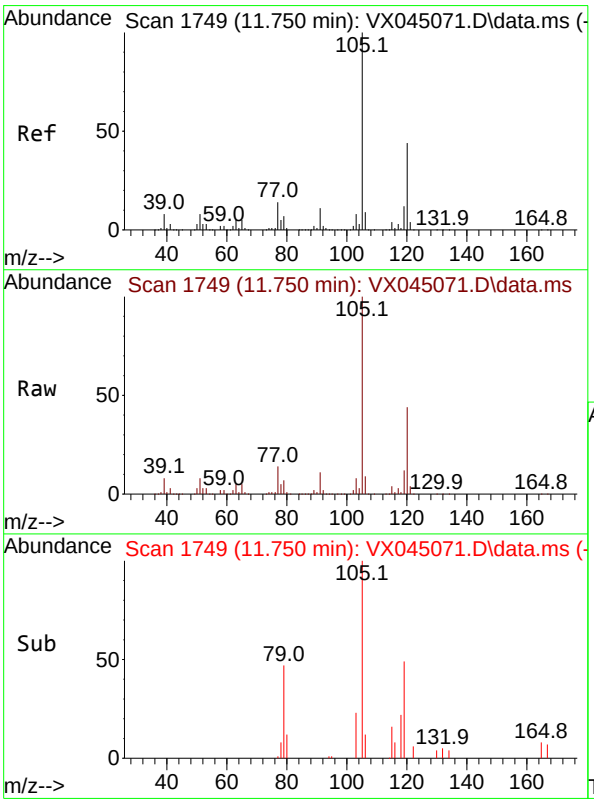
Ion	Ratio	Lower	Upper
119	100		
91	61.4	30.7	92.1
134	23.3	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

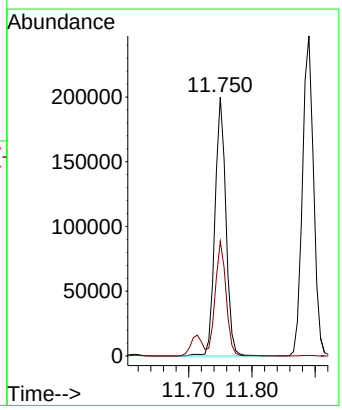
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

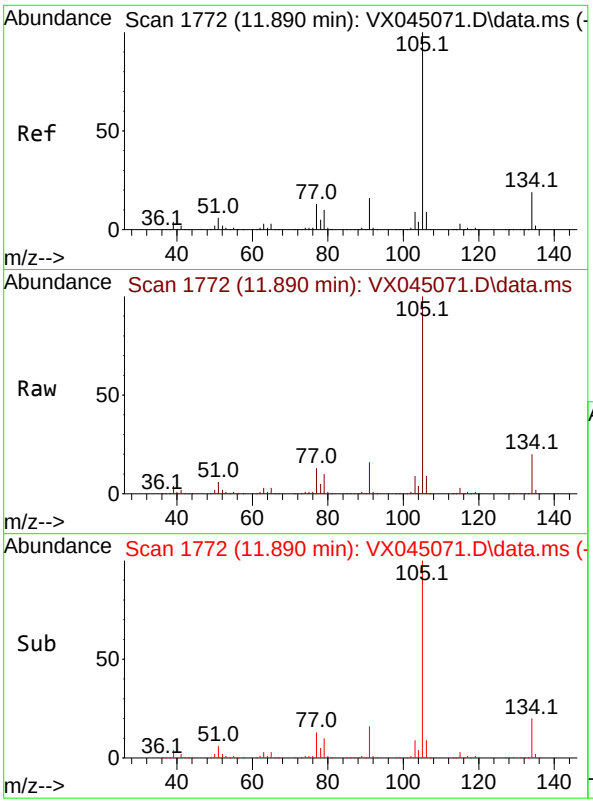


#84
1,2,4-Trimethylbenzene
Concen: 52.326 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 240719

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1





#85
sec-Butylbenzene
Concen: 51.353 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

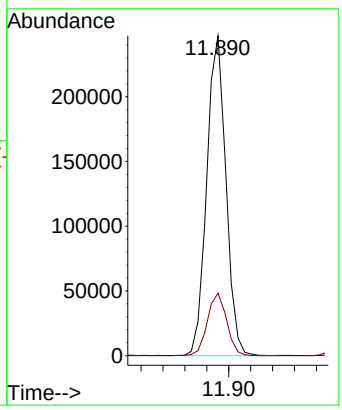
Tgt Ion:105 Resp: 30039

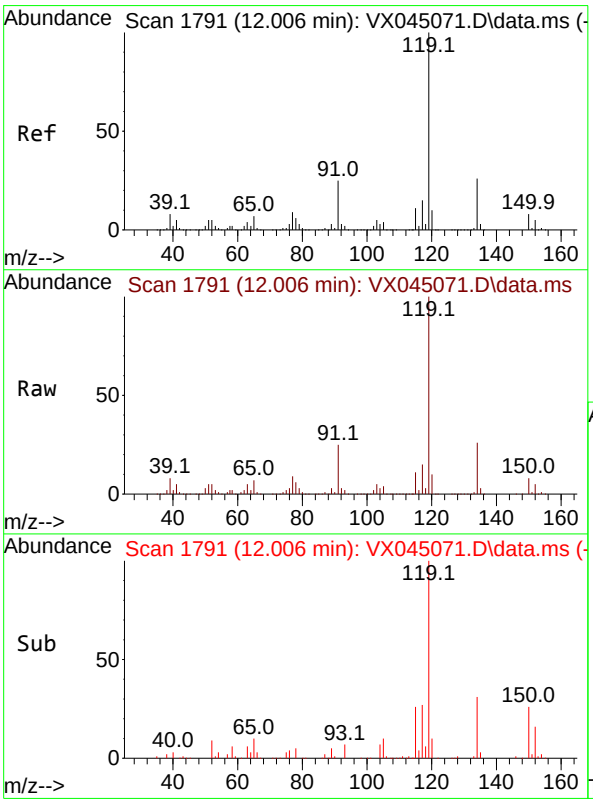
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

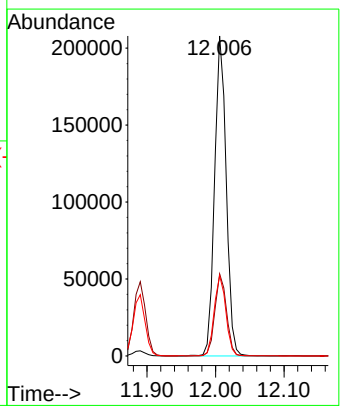


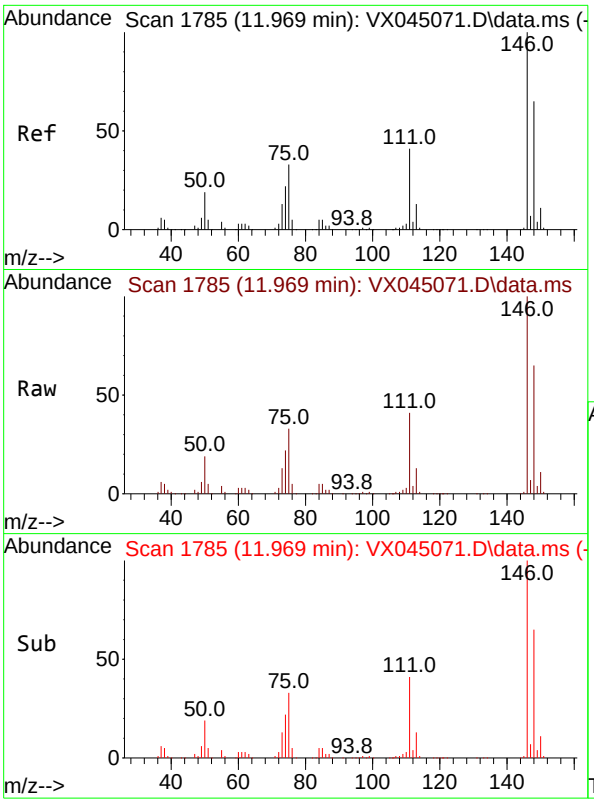


#86
p-Isopropyltoluene
Concen: 51.964 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:119 Resp: 244031

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	25.3	12.7	38.0

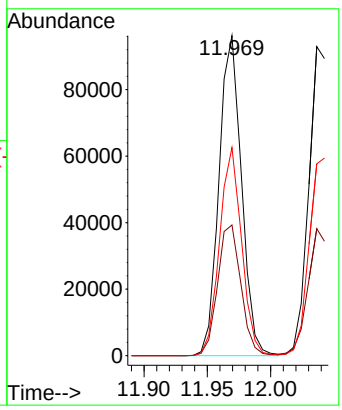




#87
1,3-Dichlorobenzene
Concen: 49.747 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:146 Resp: 11887

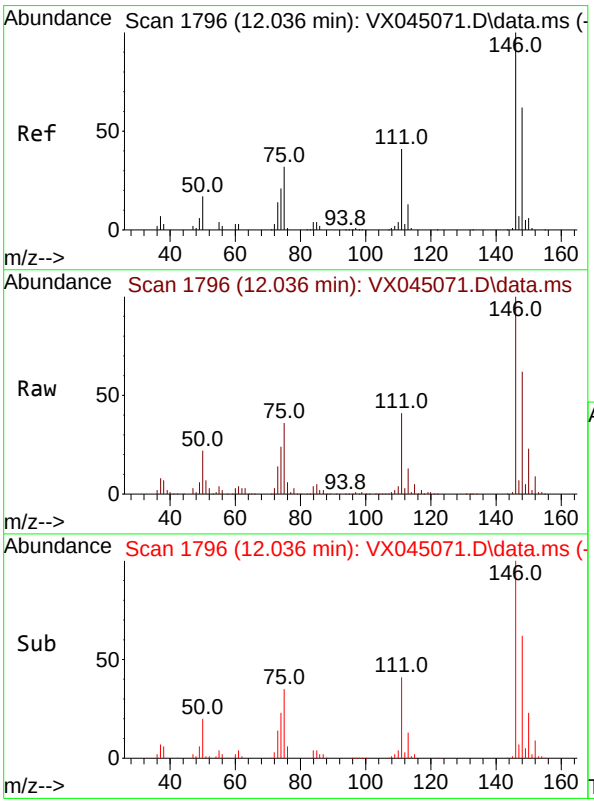
Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.1	63.4
148	63.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

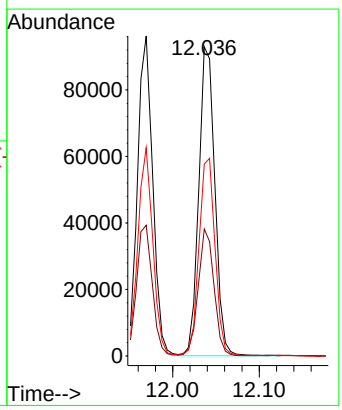
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

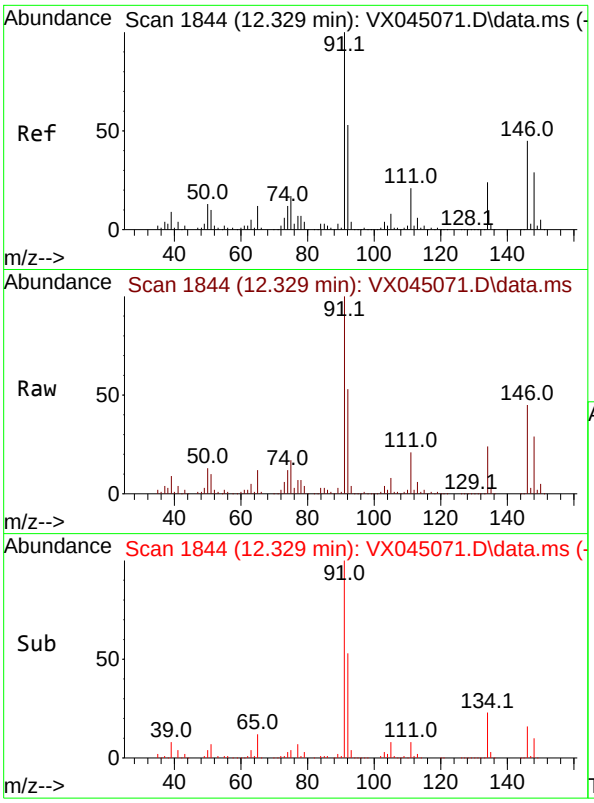


#88
1,4-Dichlorobenzene
Concen: 49.694 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:146 Resp: 120217

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.2	60.5
148	63.9	31.9	95.9

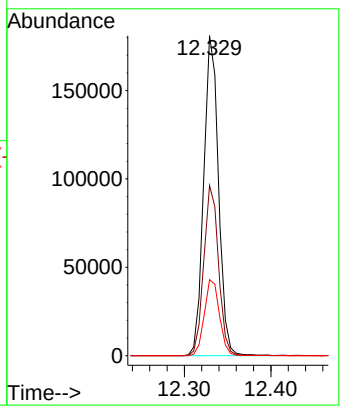




#89
n-Butylbenzene
Concen: 52.006 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 21468

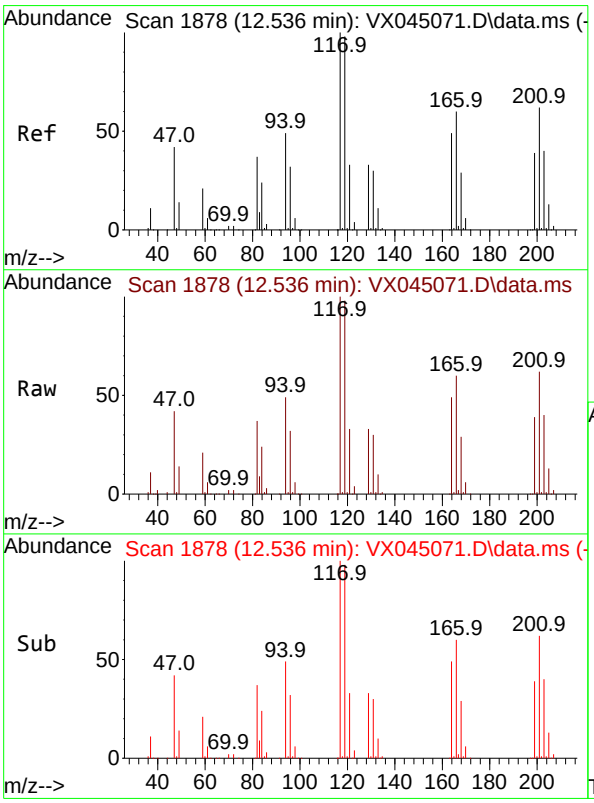
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.7	80.0
134	24.4	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

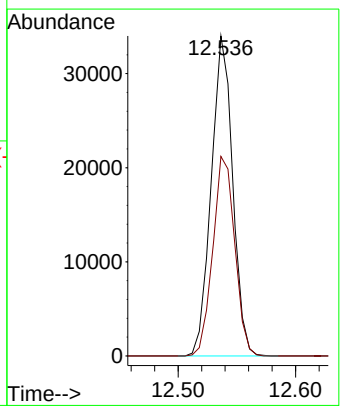
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

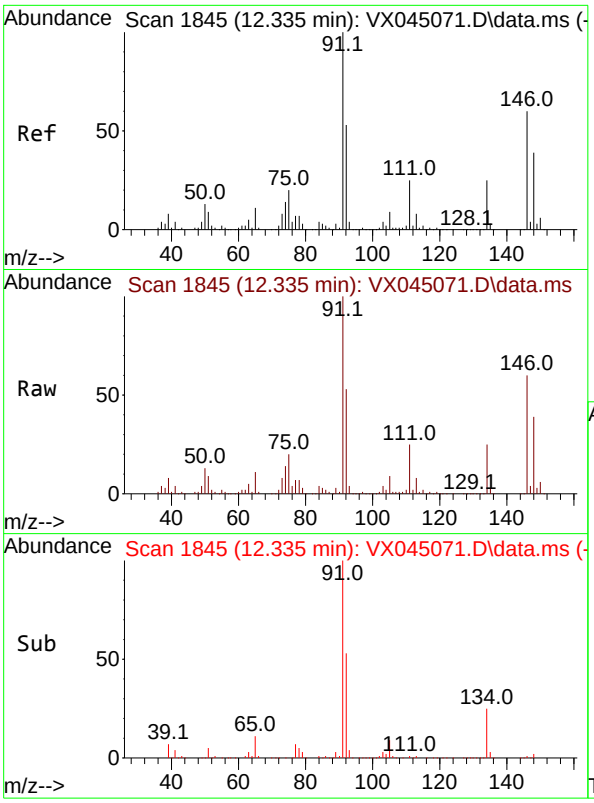


#90
Hexachloroethane
Concen: 49.188 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:117 Resp: 43086

Ion	Ratio	Lower	Upper
117	100		
201	63.9	31.9	95.9

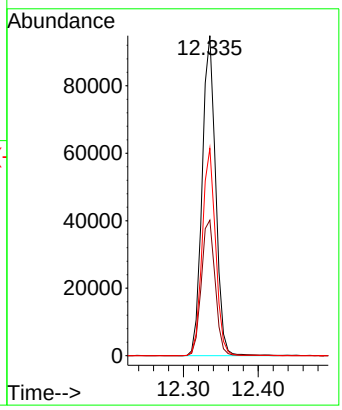




#91
1,2-Dichlorobenzene
Concen: 50.557 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:146 Resp: 11889

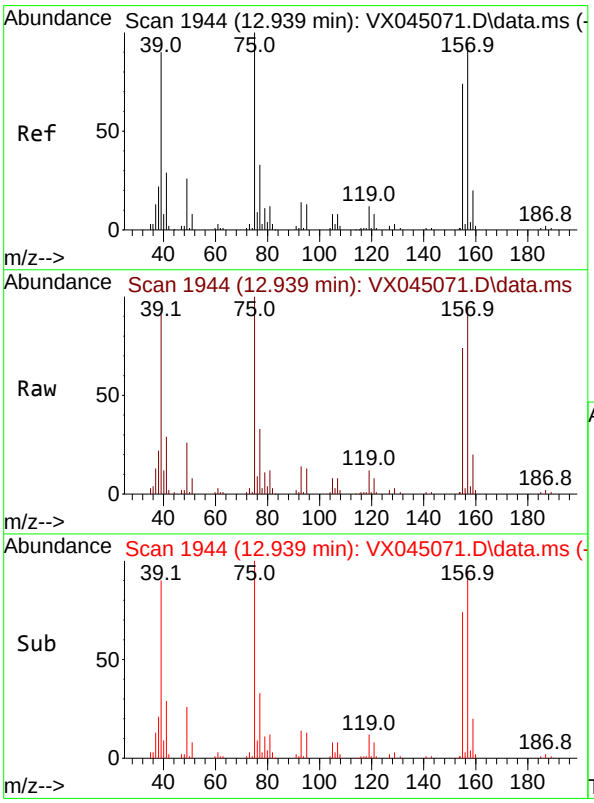
Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	65.0
148	63.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

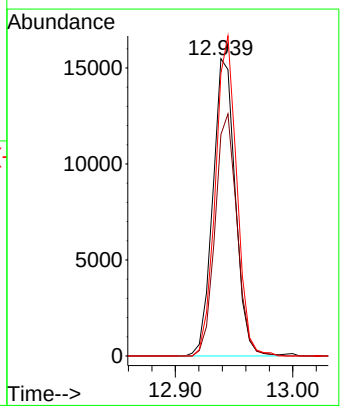
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

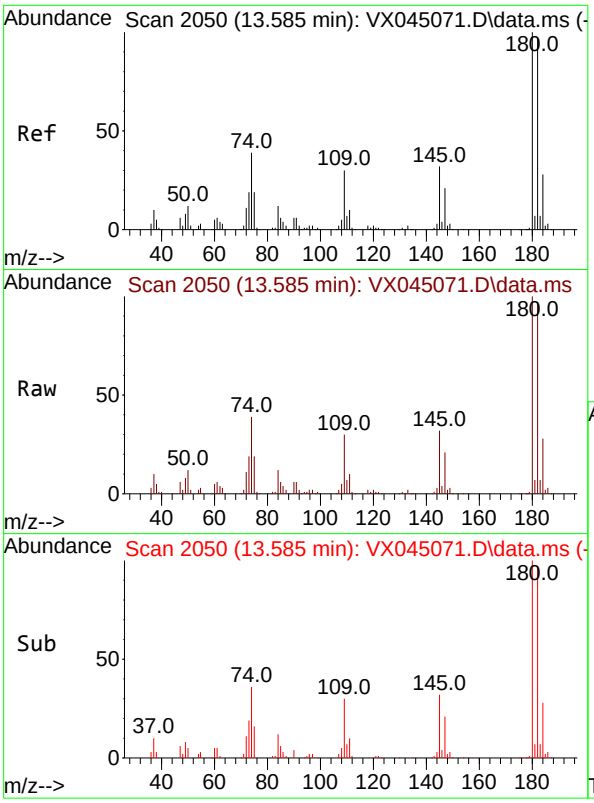


#92
1,2-Dibromo-3-Chloropropane
Concen: 56.123 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 20610

Ion	Ratio	Lower	Upper
75	100		
155	79.1	39.6	118.7
157	102.3	51.1	153.4

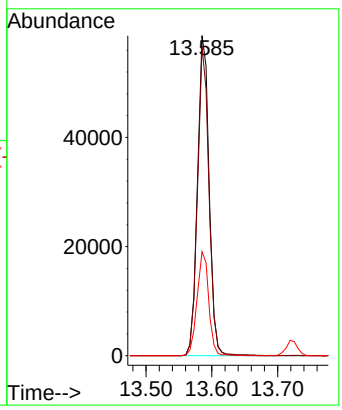




#93
1,2,4-Trichlorobenzene
Concen: 50.571 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:180 Resp: 7189

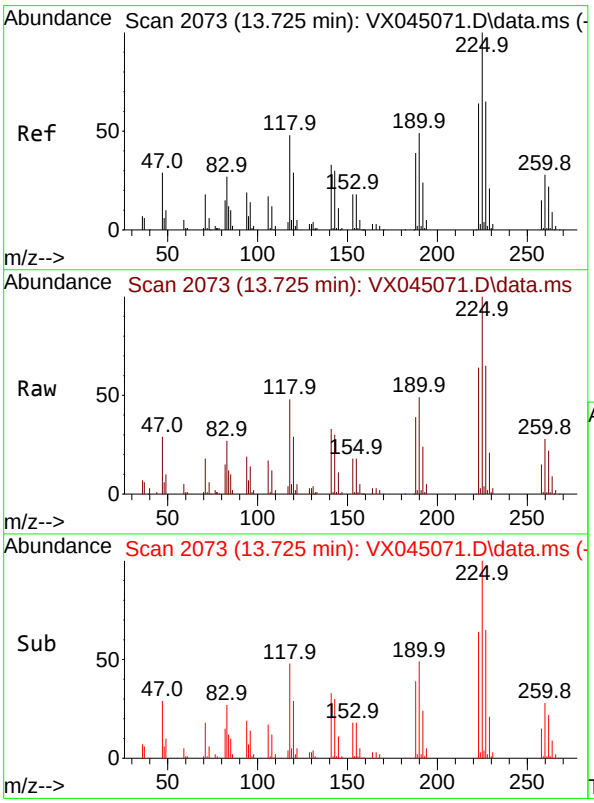
Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.3	141.9
145	32.6	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

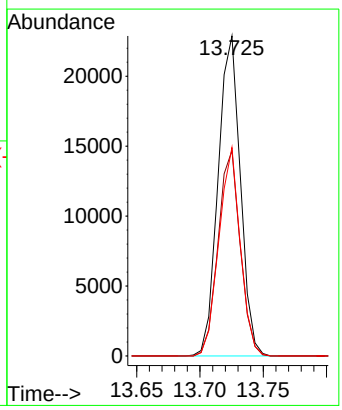
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

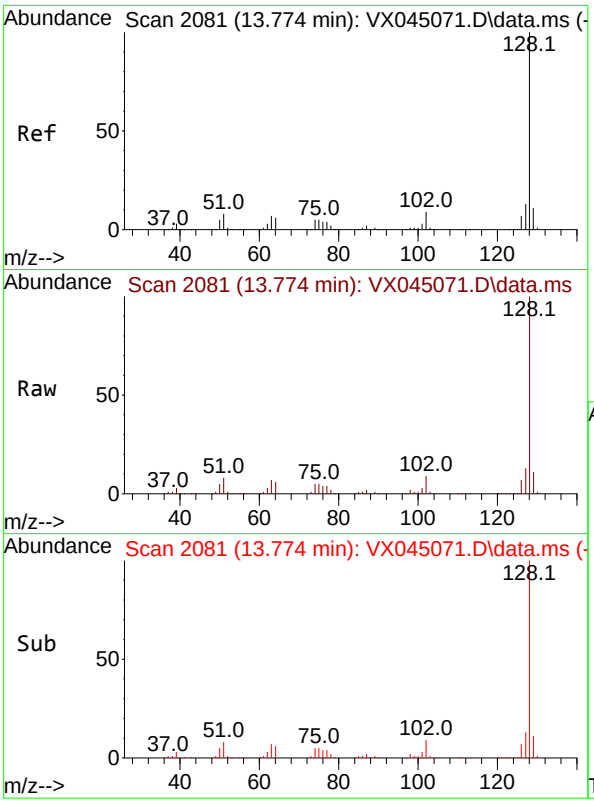


#94
Hexachlorobutadiene
Concen: 49.245 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:225 Resp: 27916

Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.9	95.7
227	62.7	31.4	94.0

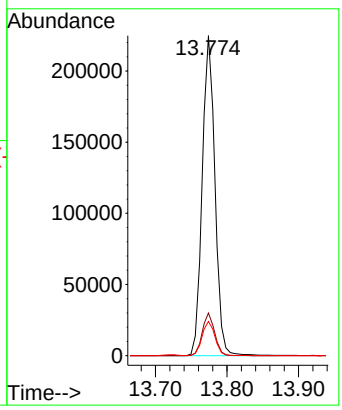




#95
Naphthalene
Concen: 53.700 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:128 Resp: 27808

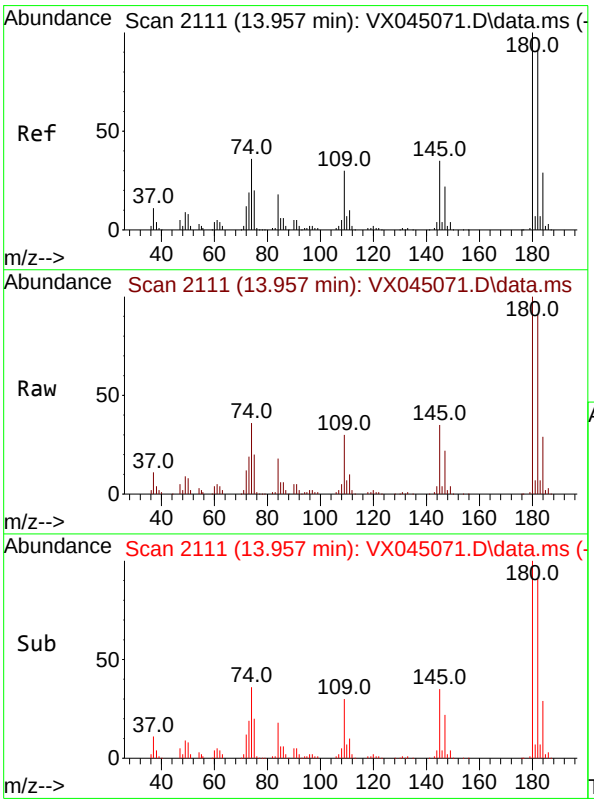
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

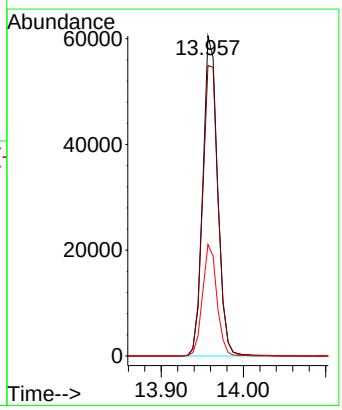
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.406 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:180 Resp: 75482

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.6
145	33.9	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	101178	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	181031	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	151175	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69086	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	158452	106.011	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 212.020%#			
35) Dibromofluoromethane	5.385	113	123185	104.110	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 208.220%#			
50) Toluene-d8	8.647	98	441188	99.595	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 199.200%#			
62) 4-Bromofluorobenzene	11.079	95	148476	100.365	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	126718	90.869	ug/l	95
3) Chloromethane	1.306	50	145825	85.936	ug/l	98
4) Vinyl Chloride	1.373	62	154734	93.360	ug/l	96
5) Bromomethane	1.593	94	57503	110.980	ug/l	97
6) Chloroethane	1.660	64	60155	95.351	ug/l	97
7) Trichlorofluoromethane	1.861	101	198701	93.594	ug/l	99
8) Diethyl Ether	2.135	74	78263	101.441	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	120518	95.064	ug/l	98
10) Methyl Iodide	2.440	142	153466	94.425	ug/l	99
11) Tert butyl alcohol	3.001	59	135016	493.141	ug/l	98
12) 1,1-Dichloroethene	2.306	96	125436	96.366	ug/l	98
13) Acrolein	2.239	56	180411	608.485	ug/l	99
14) Allyl chloride	2.654	41	220783	94.344	ug/l	98
15) Acrylonitrile	3.068	53	391946	526.749	ug/l	100
16) Acetone	2.392	43	348698	566.991	ug/l	99
17) Carbon Disulfide	2.495	76	345572	97.574	ug/l	98
18) Methyl Acetate	2.709	43	175784	94.899	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	431413	103.661	ug/l	100
20) Methylene Chloride	2.782	84	140388	96.381	ug/l	98
21) trans-1,2-Dichloroethene	3.080	96	128232	100.164	ug/l	98
22) Diisopropyl ether	3.763	45	467534	104.489	ug/l	98
23) Vinyl Acetate	3.721	43	2035880	554.219	ug/l	99
24) 1,1-Dichloroethane	3.605	63	257023	102.805	ug/l	100
25) 2-Butanone	4.562	43	559182	563.952	ug/l	99
26) 2,2-Dichloropropane	4.470	77	124805	67.148	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	155193	100.568	ug/l	99
28) Bromochloromethane	4.897	49	113848	94.428	ug/l	98
29) Tetrahydrofuran	5.007	42	365565	556.465	ug/l	100
30) Chloroform	5.092	83	248978	101.814	ug/l	97
31) Cyclohexane	5.464	56	231082	100.711	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	211302	102.638	ug/l	99
36) 1,1-Dichloropropene	5.690	75	172295	101.258	ug/l	99
37) Ethyl Acetate	4.720	43	220327	113.796	ug/l	99
38) Carbon Tetrachloride	5.671	117	177219	105.940	ug/l	97
39) Methylcyclohexane	7.372	83	219856	101.175	ug/l	99
40) Benzene	6.031	78	541974	101.908	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	120186	116.205	ug/l		98
42) 1,2-Dichloroethane	6.086	62	189857	110.158	ug/l		99
43) Isopropyl Acetate	6.342	43	338414	109.806	ug/l		99
44) Trichloroethene	7.122	130	128124	105.402	ug/l		96
45) 1,2-Dichloropropane	7.427	63	135997	102.898	ug/l		100
46) Dibromomethane	7.580	93	97248	105.329	ug/l		99
47) Bromodichloromethane	7.817	83	191016	106.947	ug/l		97
48) Methyl methacrylate	7.695	41	165825	113.344	ug/l		99
49) 1,4-Dioxane	7.665	88	66308	2132.314	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	1048140	555.050	ug/l		99
52) Toluene	8.714	92	316349	100.178	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	177352	100.462	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	200943	101.815	ug/l		98
55) 1,1,2-Trichloroethane	9.146	97	123426	100.920	ug/l		99
56) Ethyl methacrylate	9.116	69	208782	106.744	ug/l		100
57) 1,3-Dichloropropane	9.305	76	216267	101.387	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	494551	514.987	ug/l		99
59) 2-Hexanone	9.433	43	779492	572.233	ug/l		99
60) Dibromochloromethane	9.518	129	139245	106.719	ug/l		99
61) 1,2-Dibromoethane	9.610	107	128617	104.259	ug/l		99
64) Tetrachloroethene	9.268	164	99386	103.491	ug/l		98
65) Chlorobenzene	10.079	112	332473	102.456	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	112451	107.511	ug/l		96
67) Ethyl Benzene	10.189	91	596257	103.905	ug/l		100
68) m/p-Xylenes	10.299	106	432214	204.507	ug/l		99
69) o-Xylene	10.640	106	213835	100.849	ug/l		99
70) Styrene	10.652	104	357649	104.948	ug/l		99
71) Bromoform	10.799	173	90800	116.751	ug/l	#	99
73) Isopropylbenzene	10.963	105	553533	99.138	ug/l		99
74) N-amyl acetate	10.841	43	287104	113.277	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	192217	99.923	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	156259m	101.395	ug/l		
77) Bromobenzene	11.195	156	125700	99.175	ug/l		97
78) n-propylbenzene	11.305	91	648835	100.758	ug/l		99
79) 2-Chlorotoluene	11.359	91	382703	96.825	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	445466	98.356	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	51975	91.460	ug/l		99
82) 4-Chlorotoluene	11.451	91	433881	99.168	ug/l		100
83) tert-Butylbenzene	11.713	119	454859	99.288	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	450108	100.926	ug/l		99
85) sec-Butylbenzene	11.890	105	570006	100.517	ug/l		100
86) p-Isopropyltoluene	12.006	119	465512	102.252	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	231440	99.903	ug/l		100
88) 1,4-Dichlorobenzene	12.042	146	230663	98.355	ug/l		99
89) n-Butylbenzene	12.329	91	428209	107.000	ug/l		99
90) Hexachloroethane	12.536	117	87448	102.980	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	233125	102.254	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	41402	116.296	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	148368	107.648	ug/l		99
94) Hexachlorobutadiene	13.725	225	56065	102.019	ug/l		99
95) Naphthalene	13.774	128	565250	112.593	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	152970	109.554	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

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

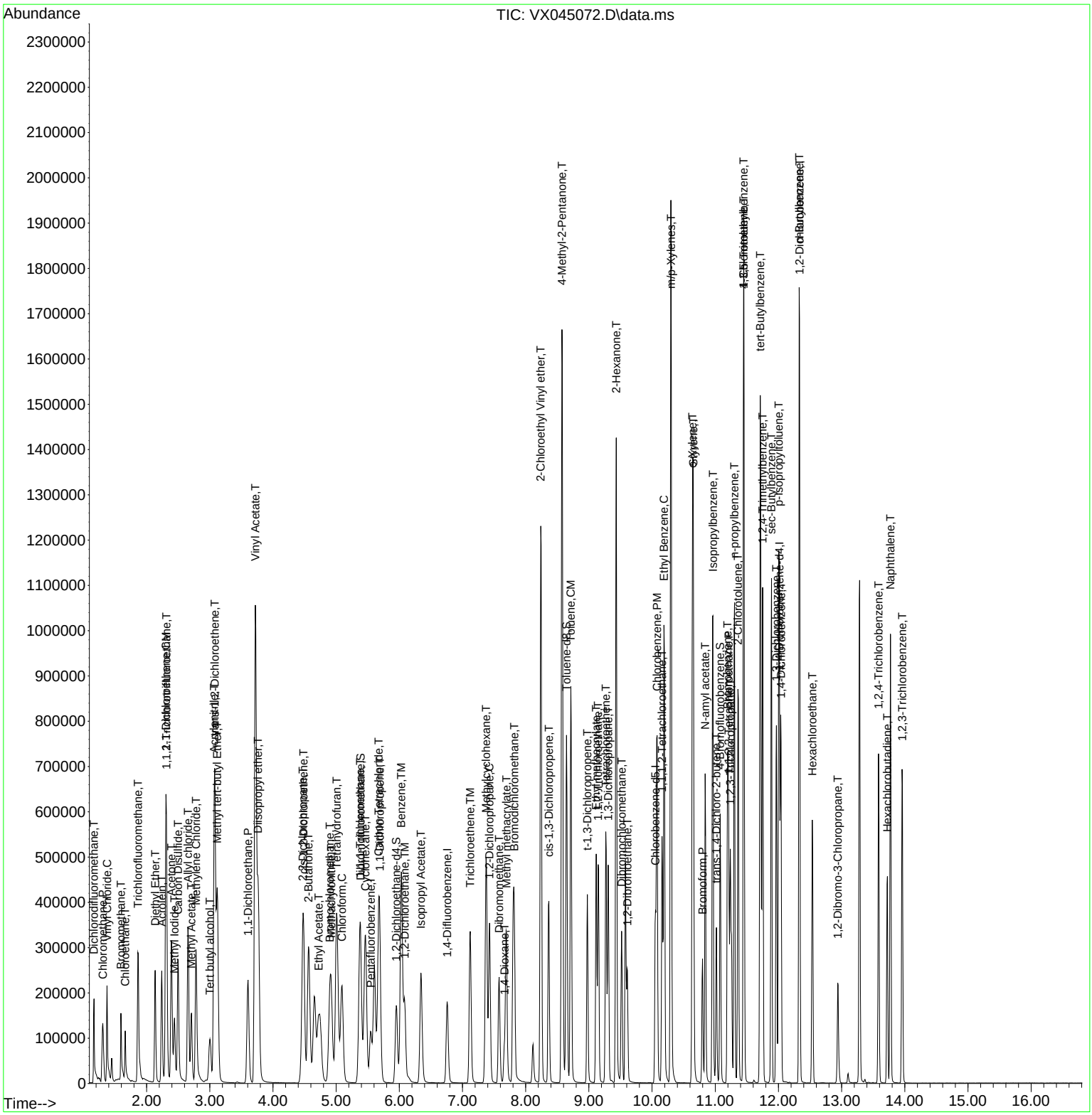
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

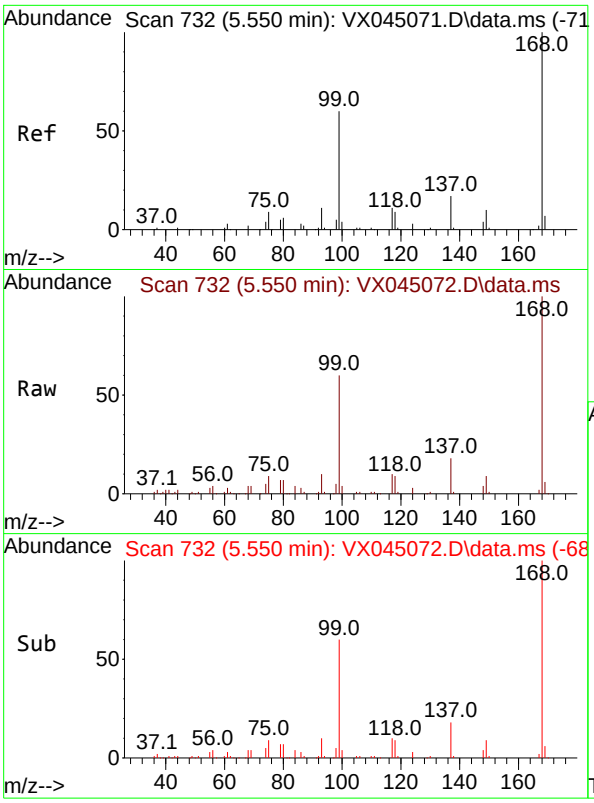
Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

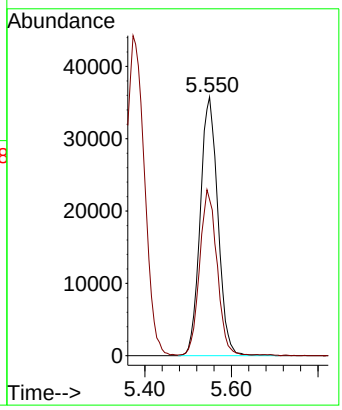




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:168 Resp: 10117

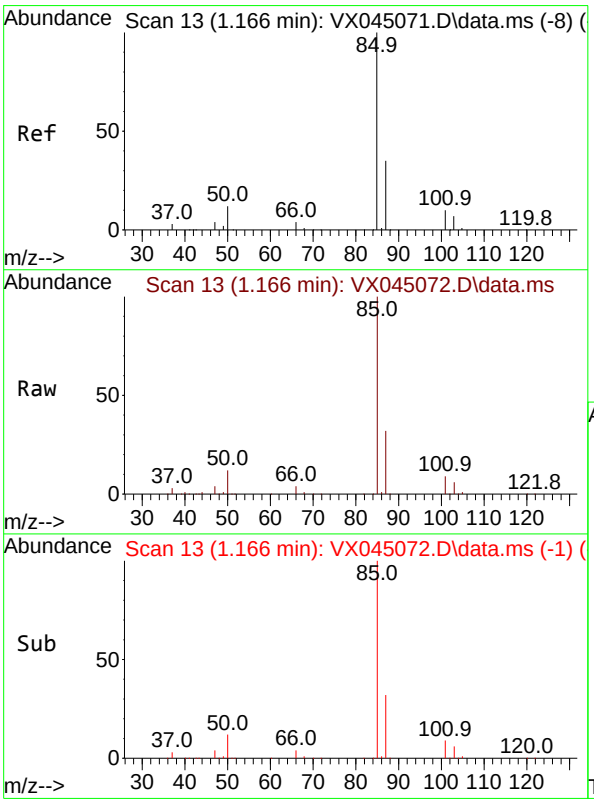
Ion	Ratio	Lower	Upper
168	100		
99	60.2	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

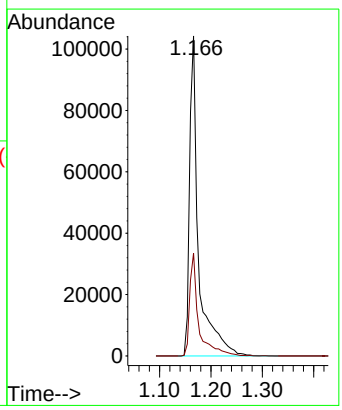
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

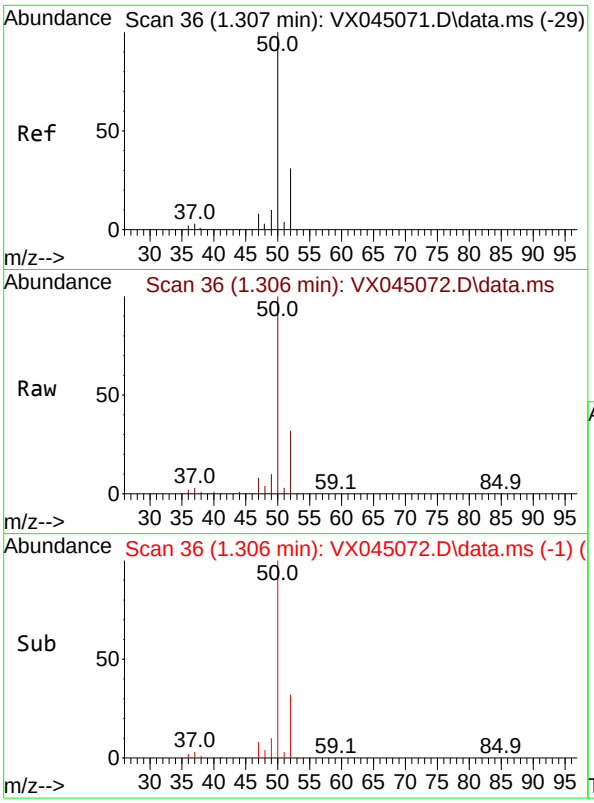


#2
Dichlorodifluoromethane
Concen: 90.869 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 85 Resp: 126718

Ion	Ratio	Lower	Upper
85	100		
87	32.1	17.4	52.3

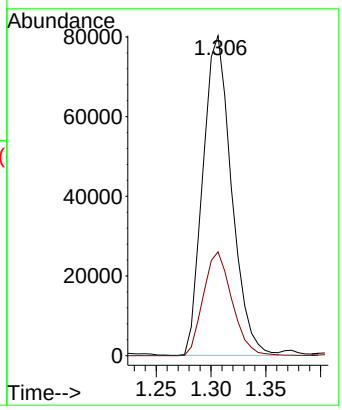




#3
Chloromethane
Concen: 85.936 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 50 Resp: 14582

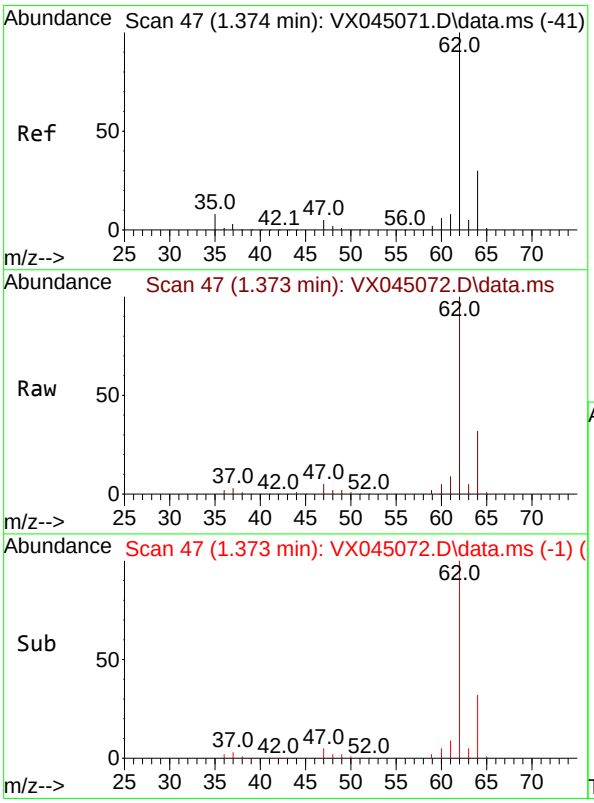
Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

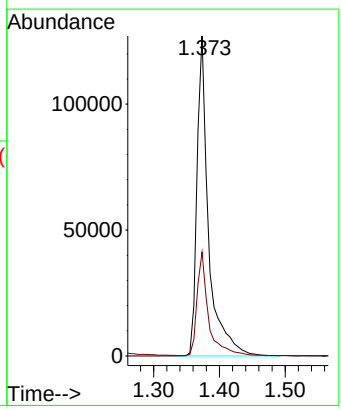
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

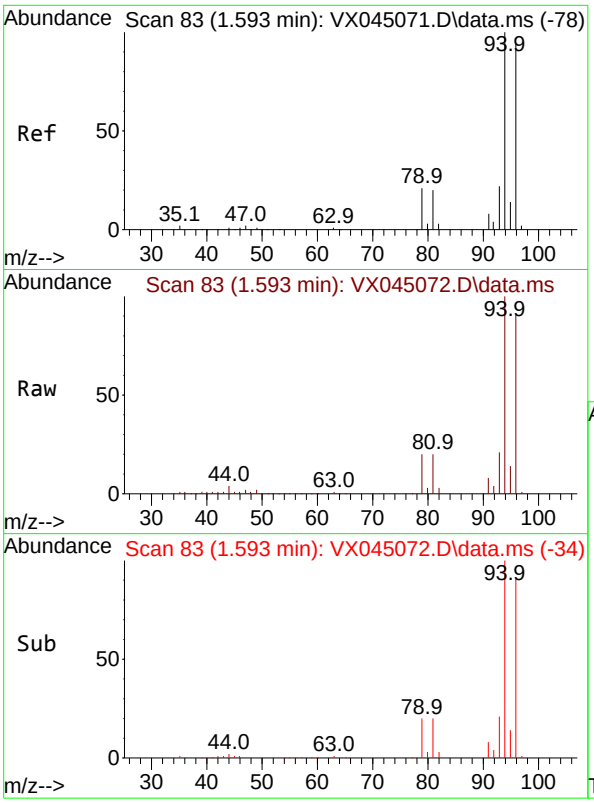


#4
Vinyl Chloride
Concen: 93.360 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 154734

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.3	36.5

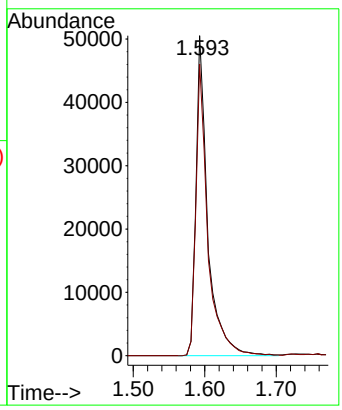




#5
Bromomethane
Concen: 110.980 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 94 Resp: 5750

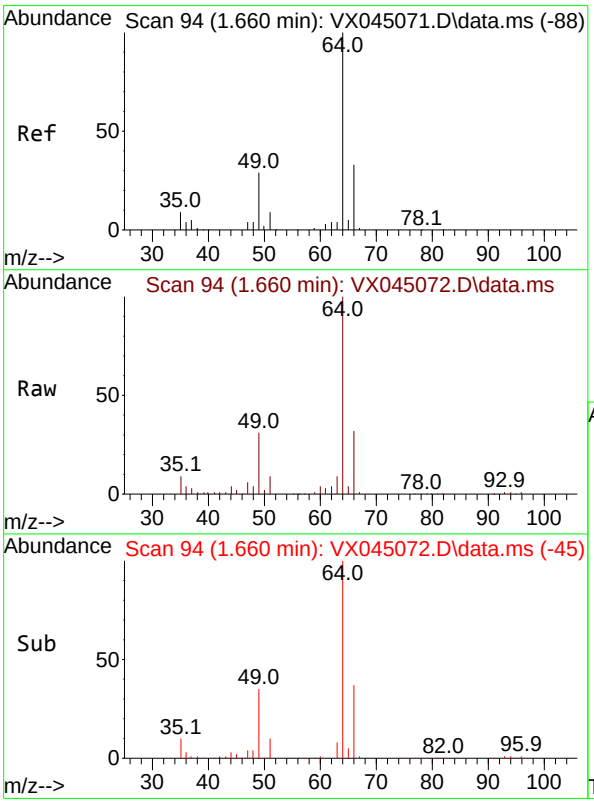
Ion	Ratio	Lower	Upper
94	100		
96	91.2	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

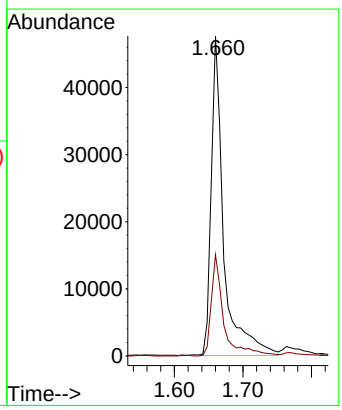
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

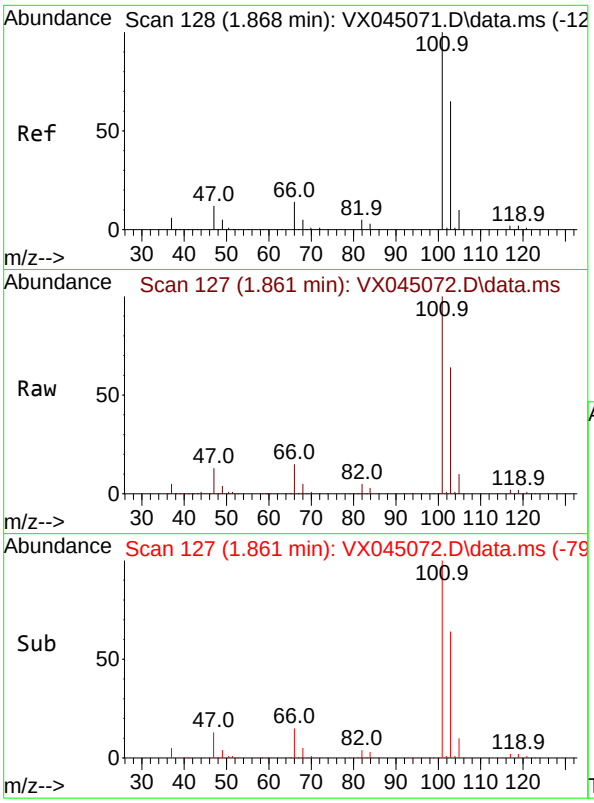


#6
Chloroethane
Concen: 95.351 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 64 Resp: 60155

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.7	40.1

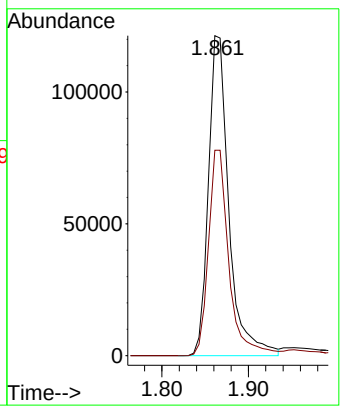




#7
Trichlorofluoromethane
Concen: 93.594 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:101 Resp: 19870

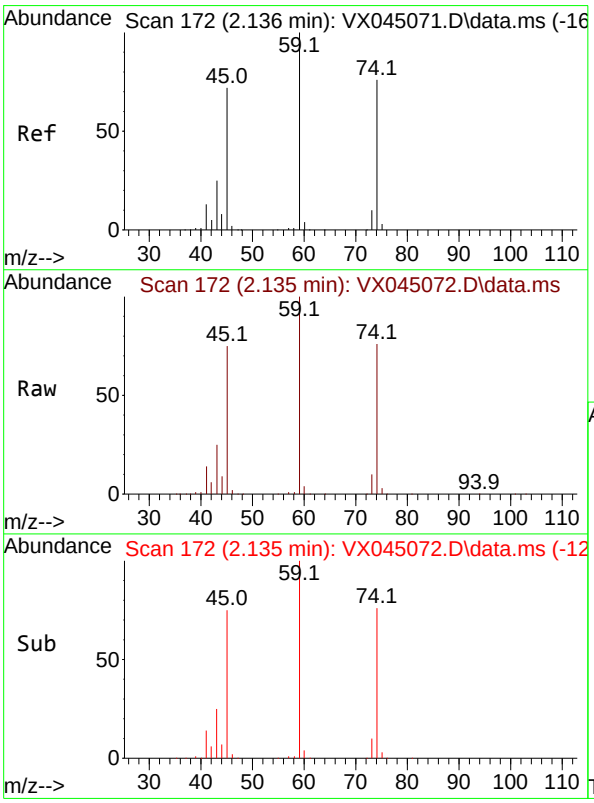
Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

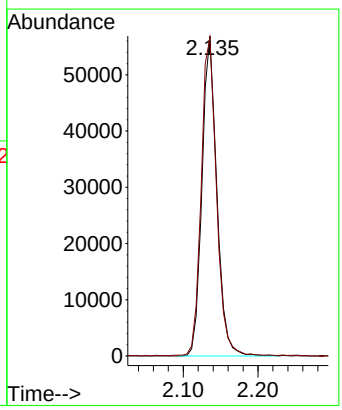
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

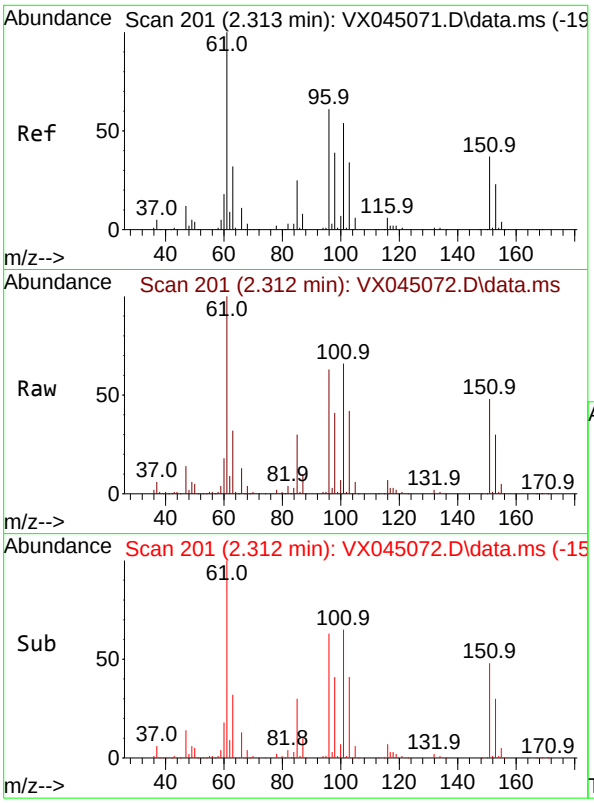


#8
Diethyl Ether
Concen: 101.441 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 74 Resp: 78263

Ion	Ratio	Lower	Upper
74	100		
45	102.7	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 95.064 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

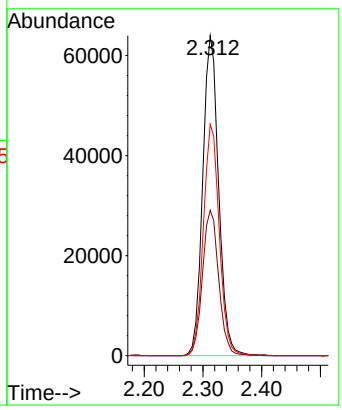
Tgt Ion:101 Resp: 12051

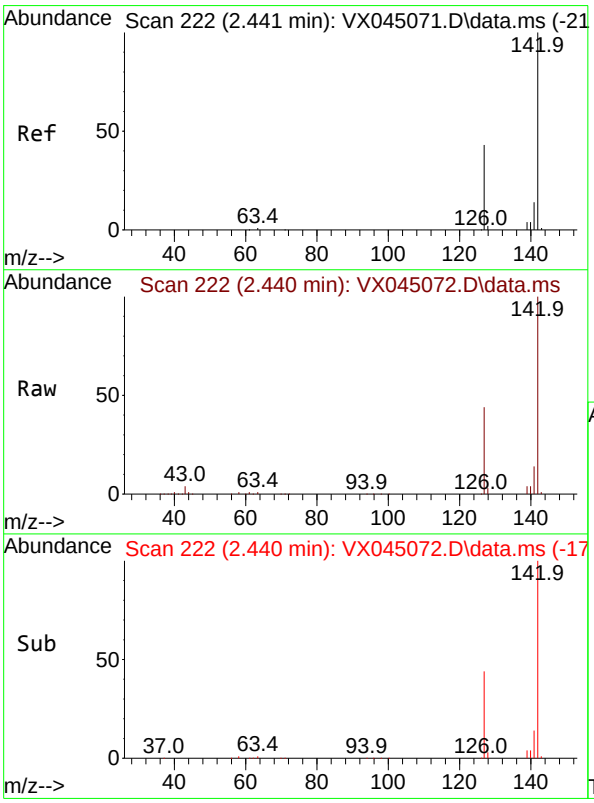
Ion	Ratio	Lower	Upper
101	100		
85	46.5	36.2	54.4
151	72.4	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

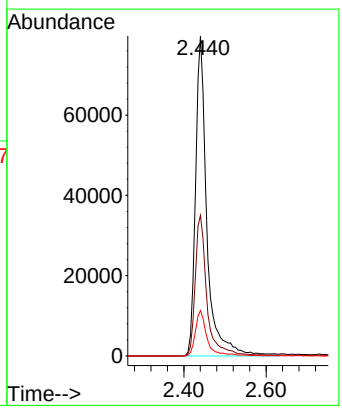


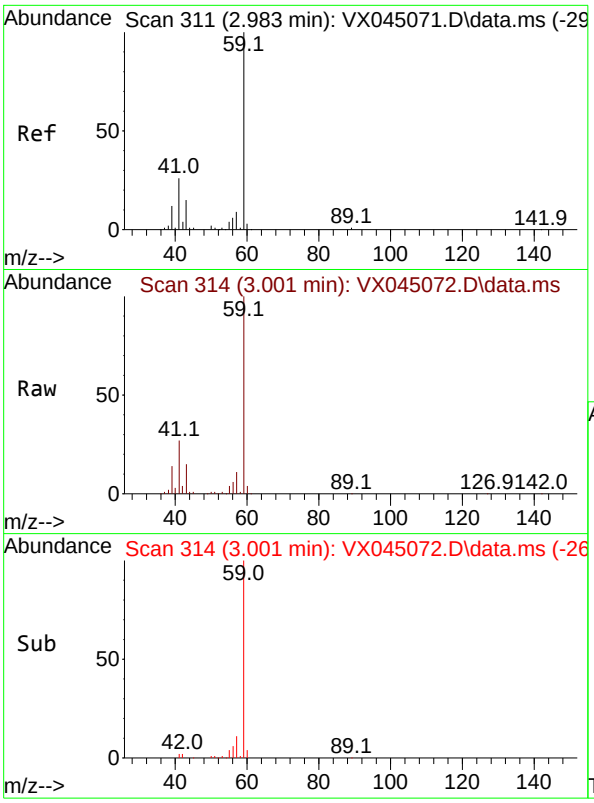


#10
Methyl Iodide
Concen: 94.425 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:142 Resp: 153466

Ion	Ratio	Lower	Upper
142	100		
127	45.0	35.4	53.2
141	14.4	11.6	17.4

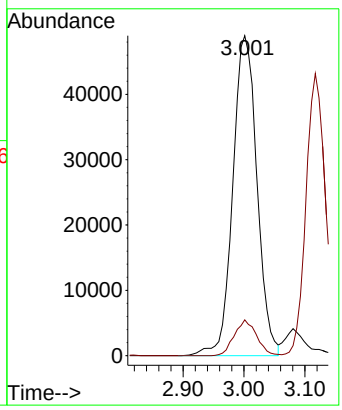




#11
Tert butyl alcohol
Concen: 493.141 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 59 Resp: 13501

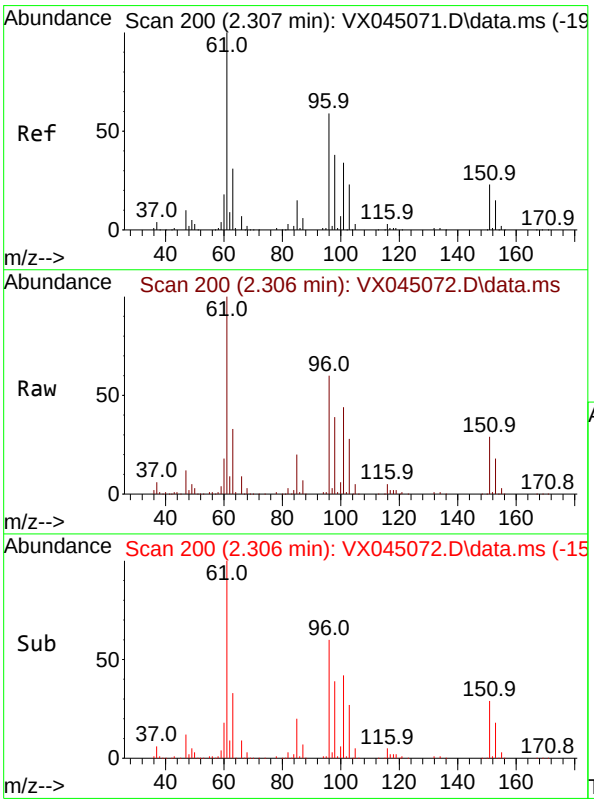
Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

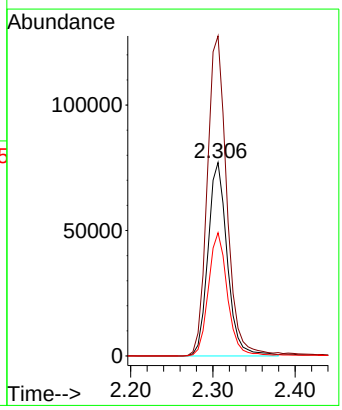
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

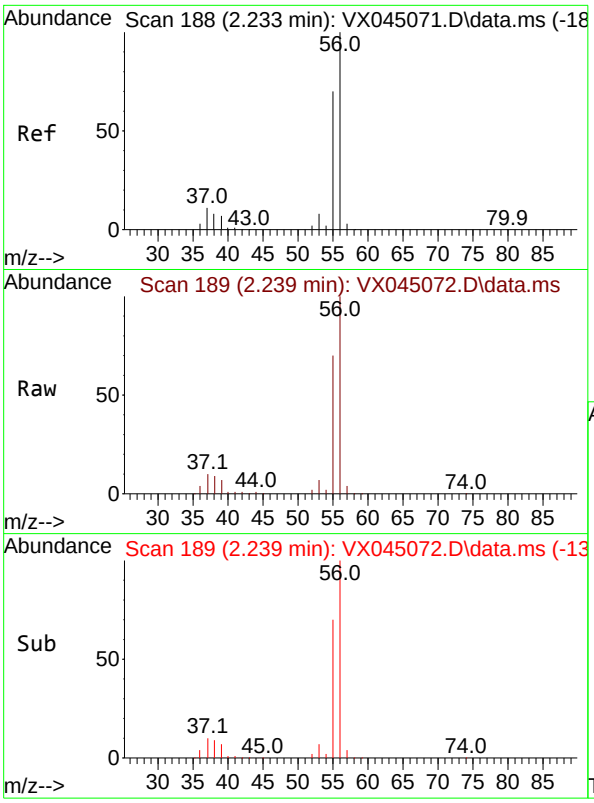


#12
1,1-Dichloroethene
Concen: 96.366 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 96 Resp: 125436

Ion	Ratio	Lower	Upper
96	100		
61	165.4	134.6	202.0
98	63.7	51.0	76.6

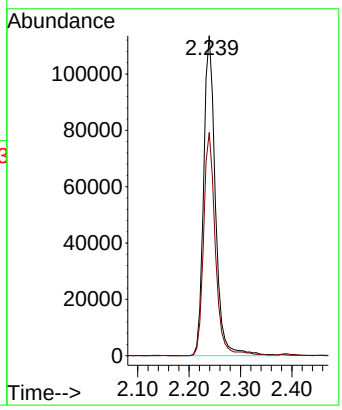




#13
Acrolein
Concen: 608.485 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 56 Resp: 18041

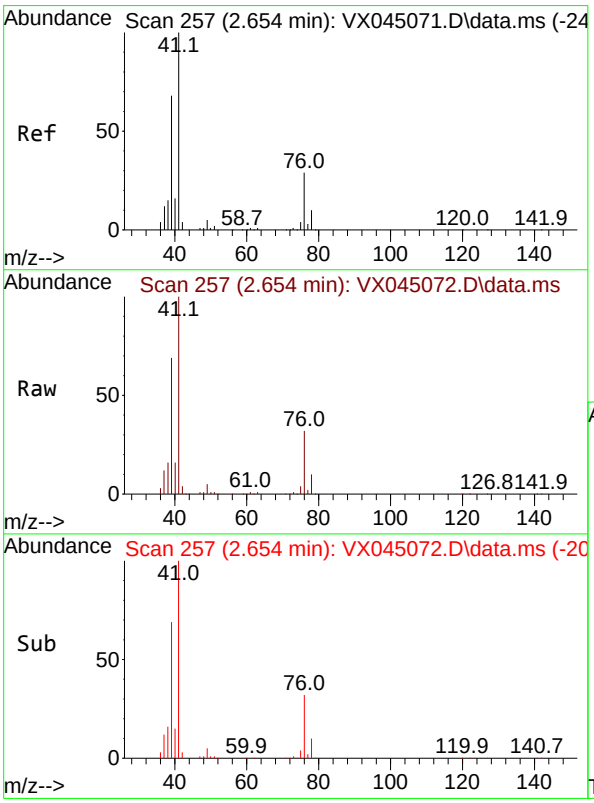
Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

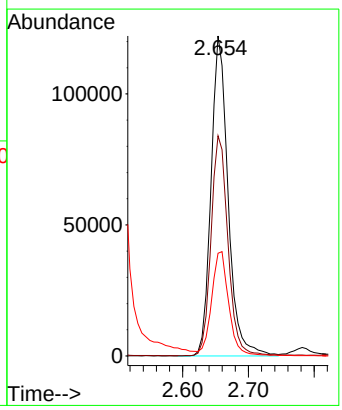
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

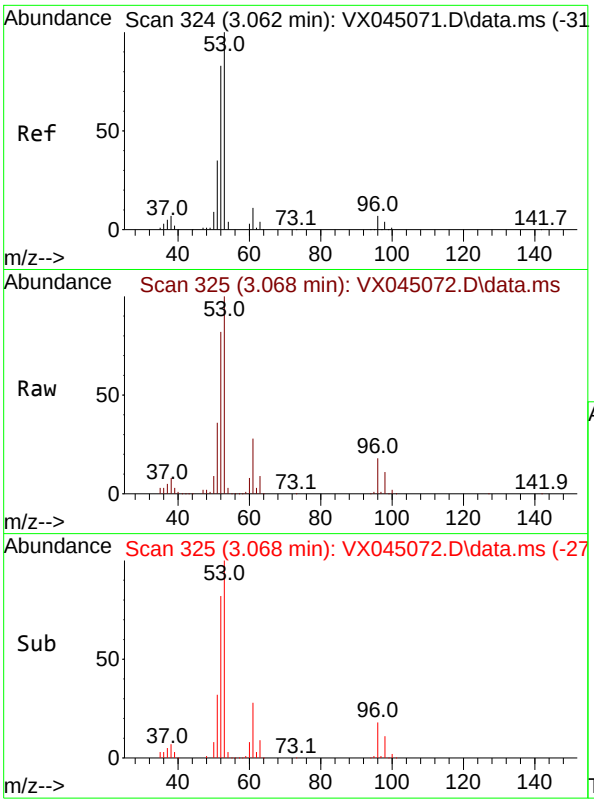


#14
Allyl chloride
Concen: 94.344 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 220783

Ion	Ratio	Lower	Upper
41	100		
39	68.4	53.8	80.8
76	32.6	25.2	37.8

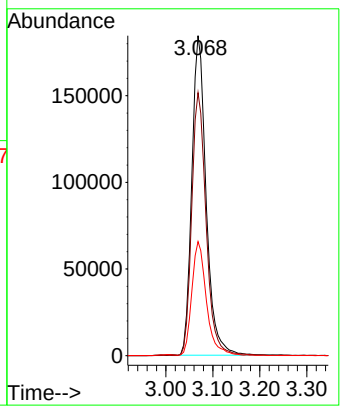




#15
Acrylonitrile
Concen: 526.749 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 53 Resp: 39194

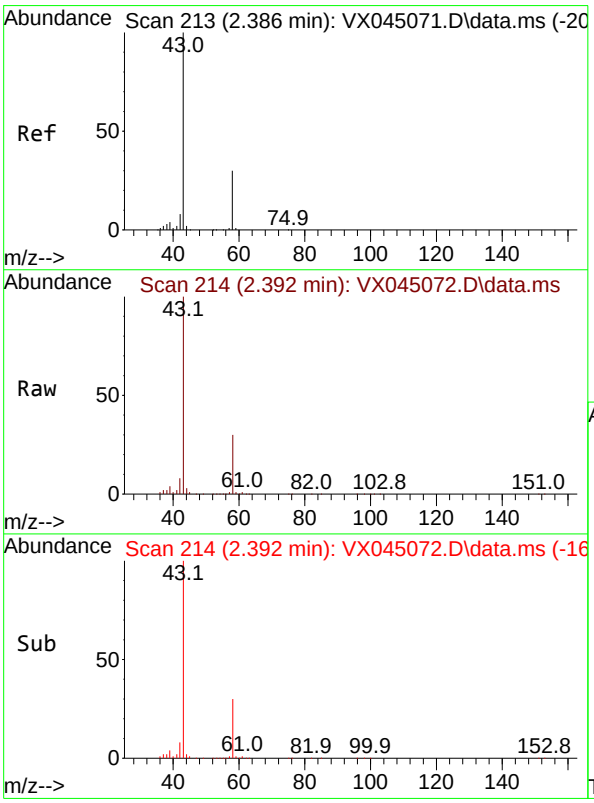
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.2	99.2
51	36.6	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

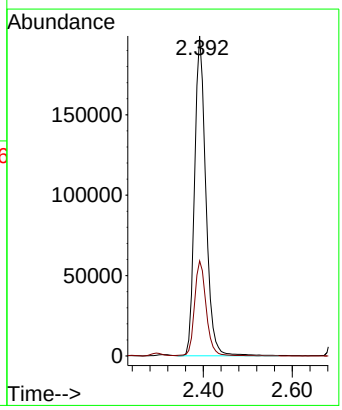
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

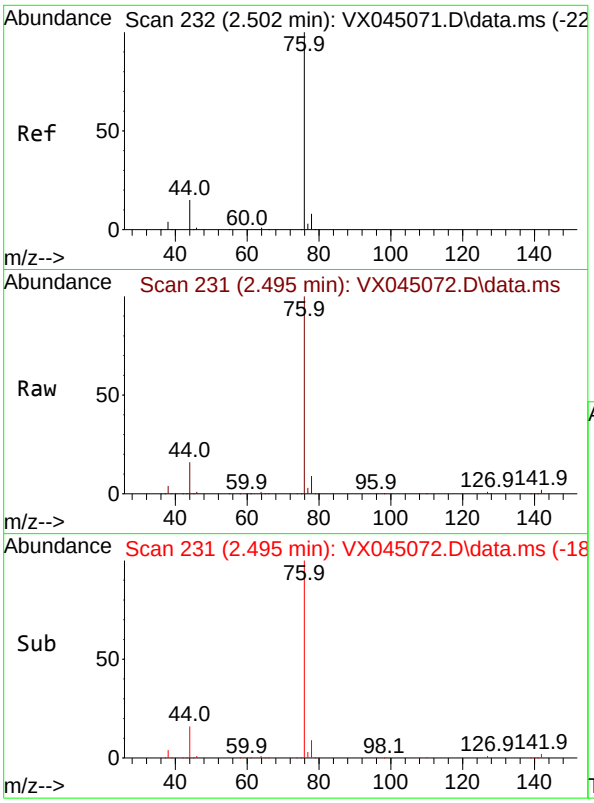


#16
Acetone
Concen: 566.991 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 348698

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4

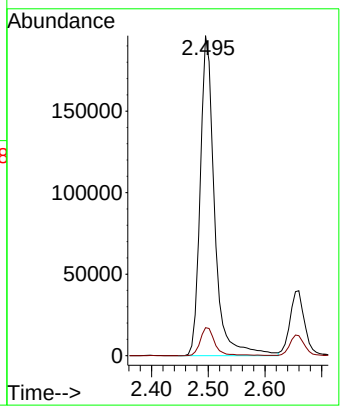




#17
Carbon Disulfide
Concen: 97.574 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 76 Resp: 34557

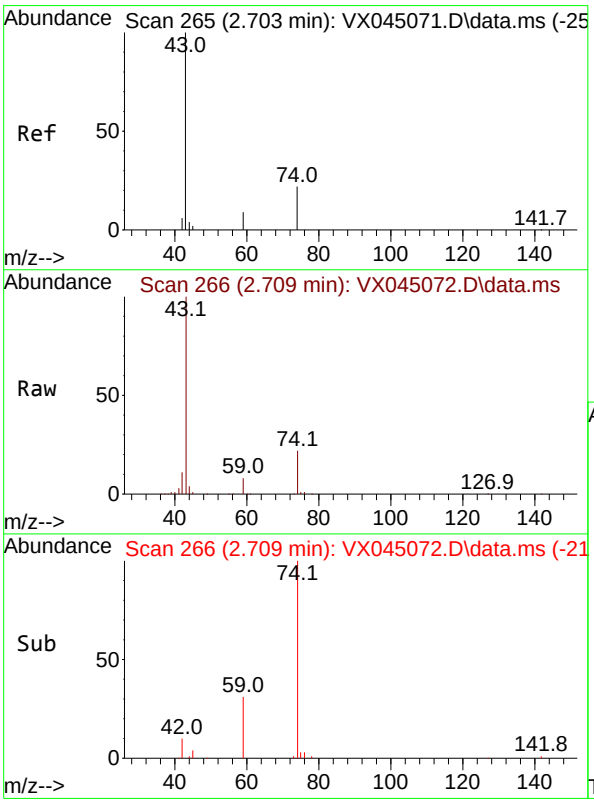
Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

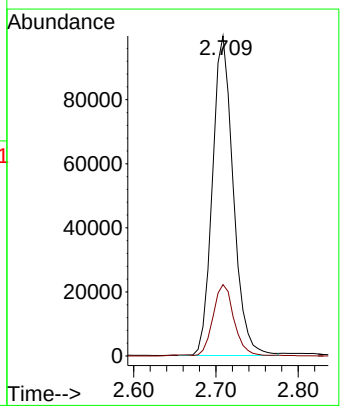
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

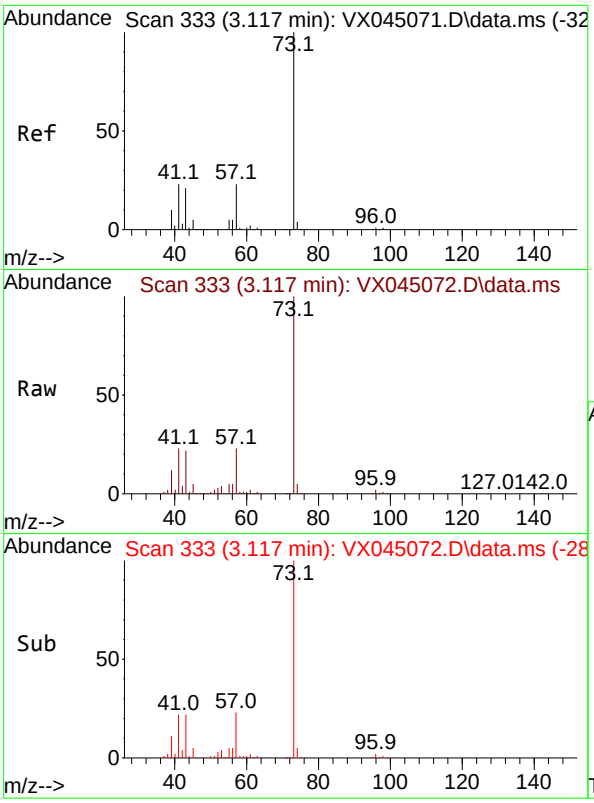


#18
Methyl Acetate
Concen: 94.899 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 175784

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

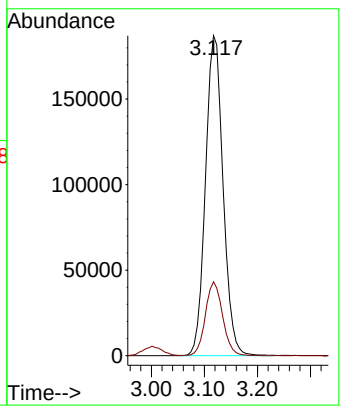




#19
Methyl tert-butyl Ether
Concen: 103.661 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 73 Resp: 43141

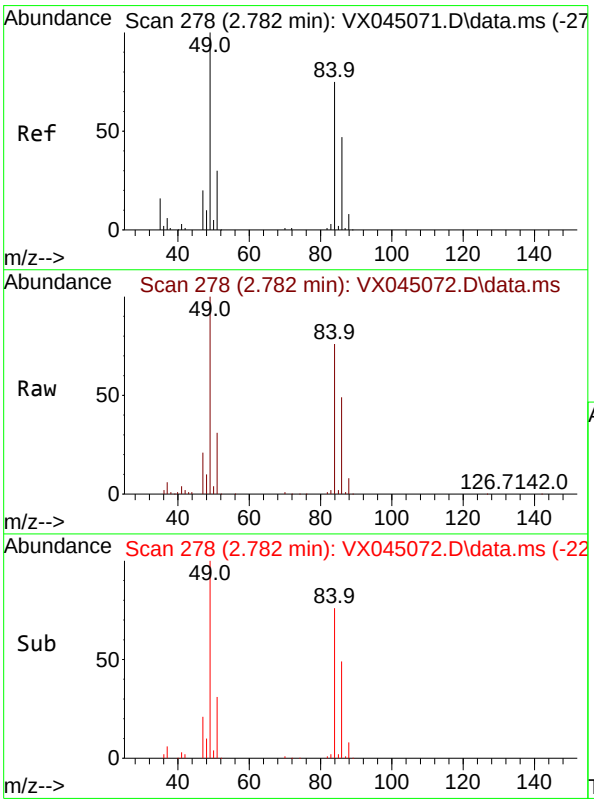
Ion	Ratio	Lower	Upper
73	100		
57	23.0	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

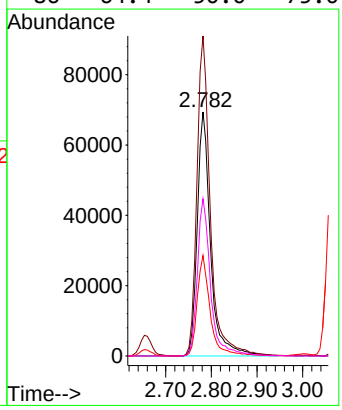
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

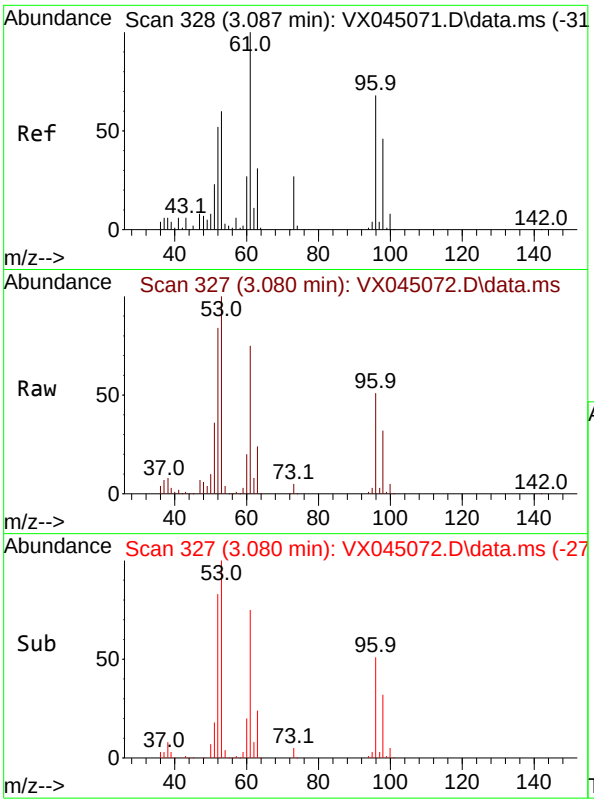


#20
Methylene Chloride
Concen: 96.381 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 84 Resp: 140388

Ion	Ratio	Lower	Upper
84	100		
49	131.2	106.5	159.7
51	41.2	32.1	48.1
86	64.4	50.0	75.0

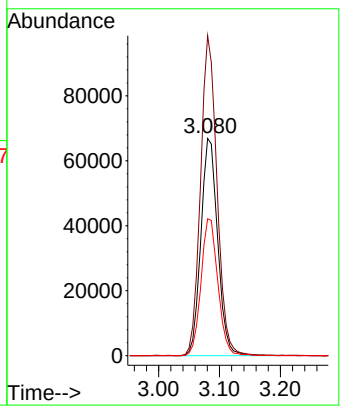




#21
trans-1,2-Dichloroethene
Concen: 100.164 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 96 Resp: 12823

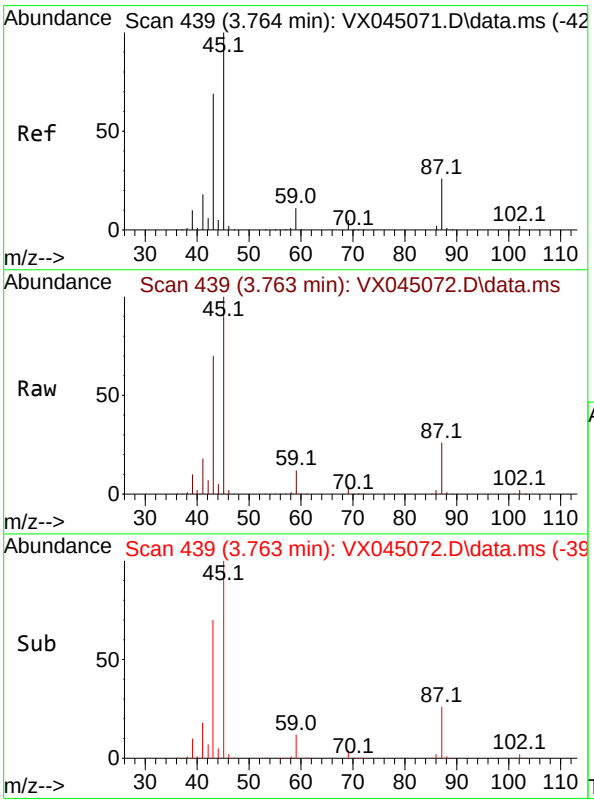
Ion	Ratio	Lower	Upper
96	100		
61	147.3	117.0	175.4
98	63.0	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

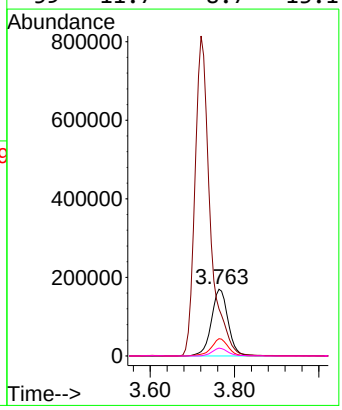
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

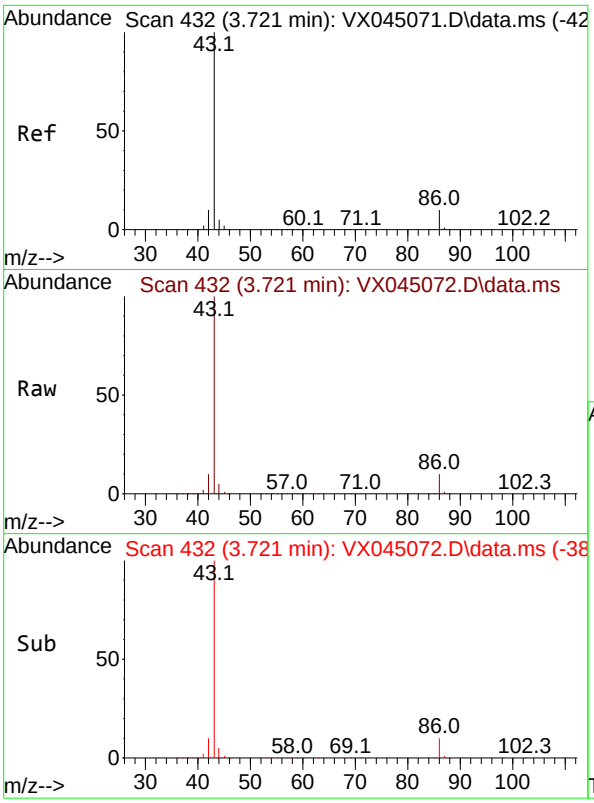


#22
Diisopropyl ether
Concen: 104.489 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 45 Resp: 467534

Ion	Ratio	Lower	Upper
45	100		
43	70.4	54.9	82.3
87	26.0	21.0	31.4
59	11.7	8.7	13.1

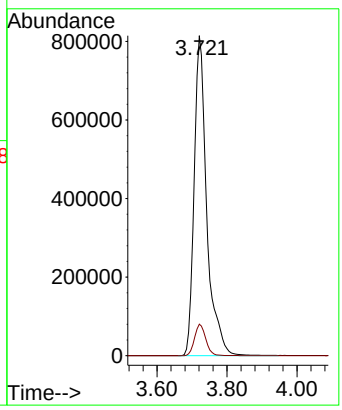




#23
Vinyl Acetate
Concen: 554.219 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 203588

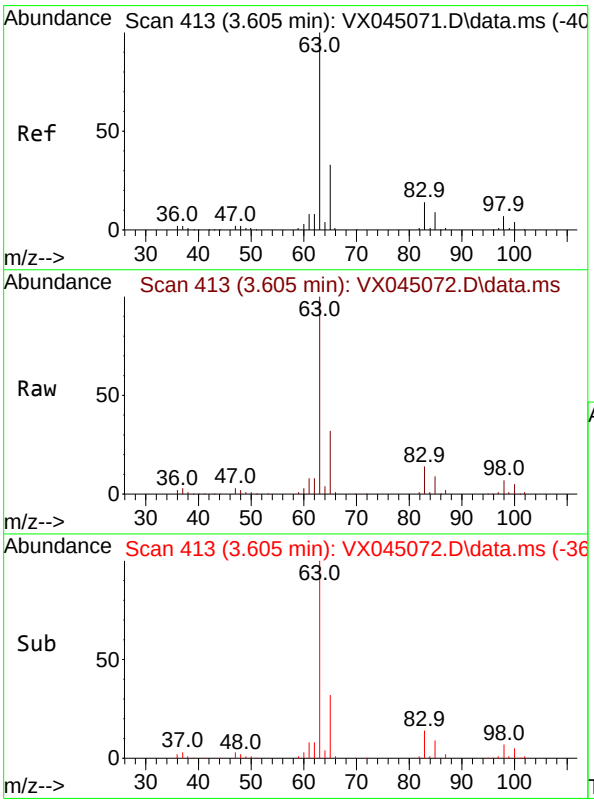
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

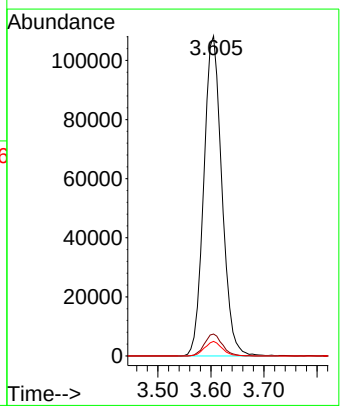
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

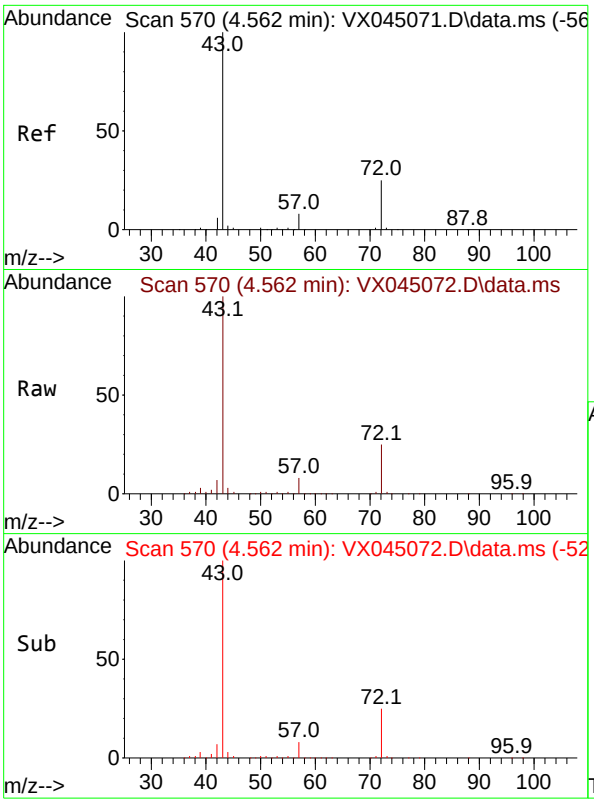


#24
1,1-Dichloroethane
Concen: 102.805 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 257023

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.6	2.1	6.5

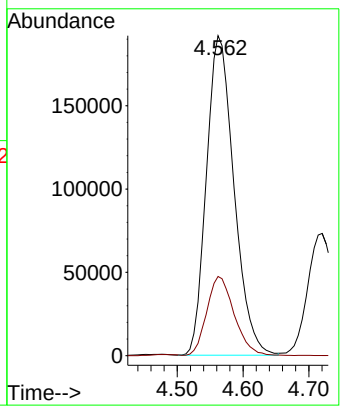




#25
2-Butanone
Concen: 563.952 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 55918

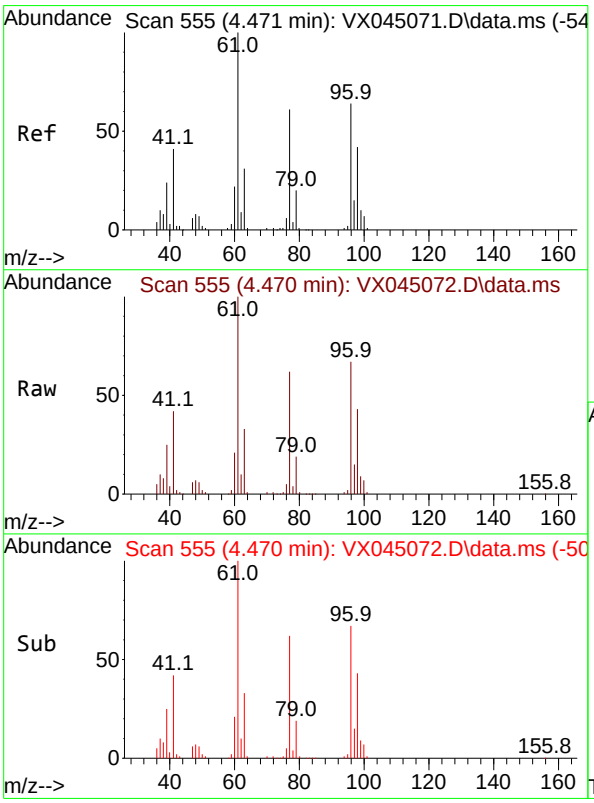
Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.0	30.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

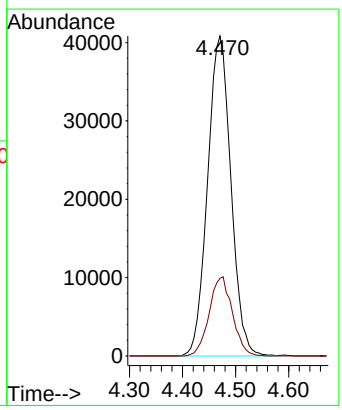
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

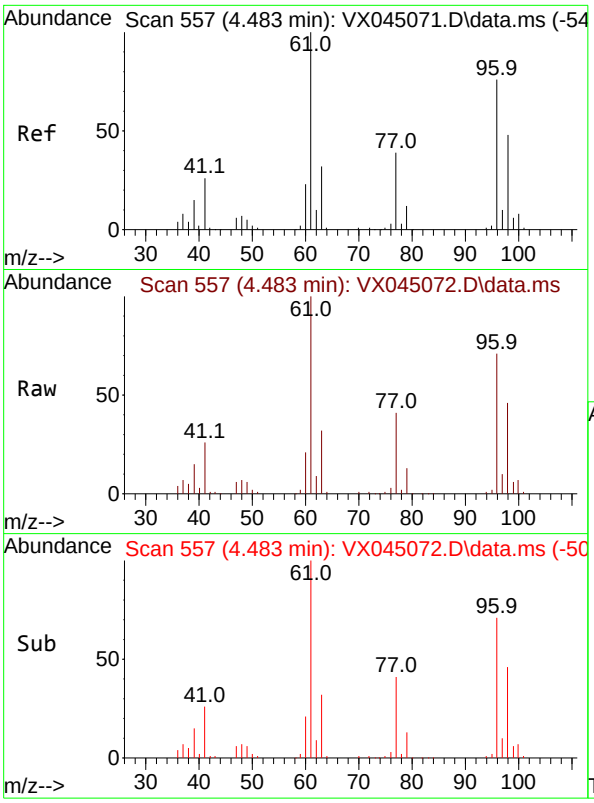


#26
2,2-Dichloropropane
Concen: 67.148 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 77 Resp: 124805

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.4	37.0

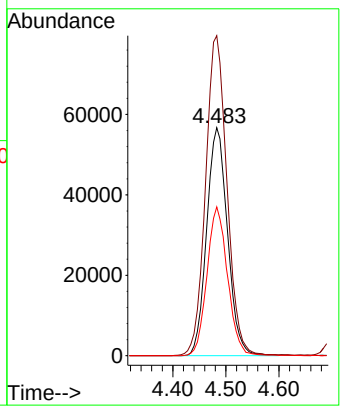




#27
cis-1,2-Dichloroethene
Concen: 100.568 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 96 Resp: 15519

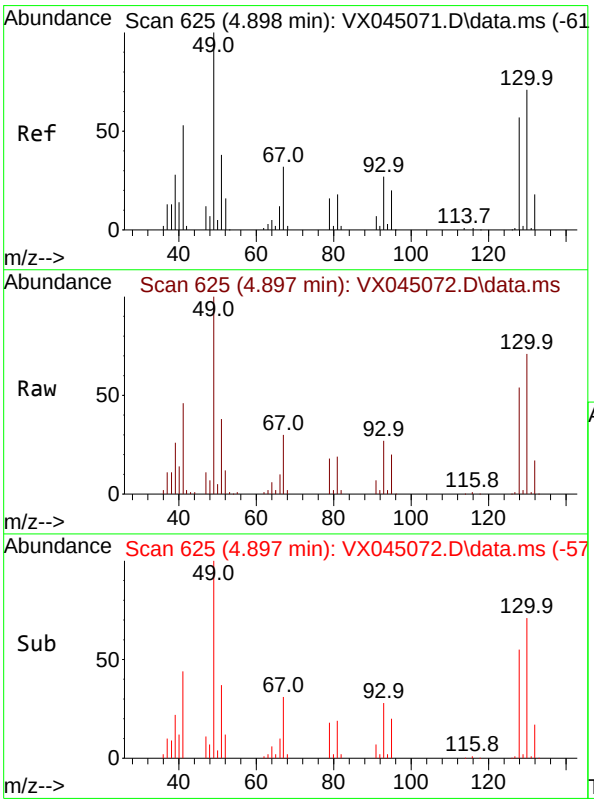
Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	283.2
98	64.3	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

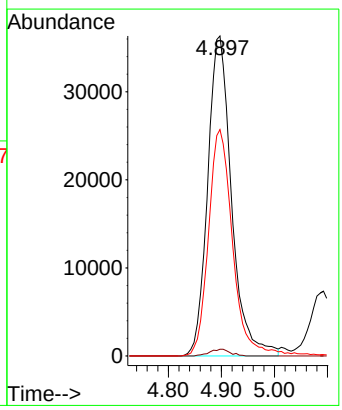
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

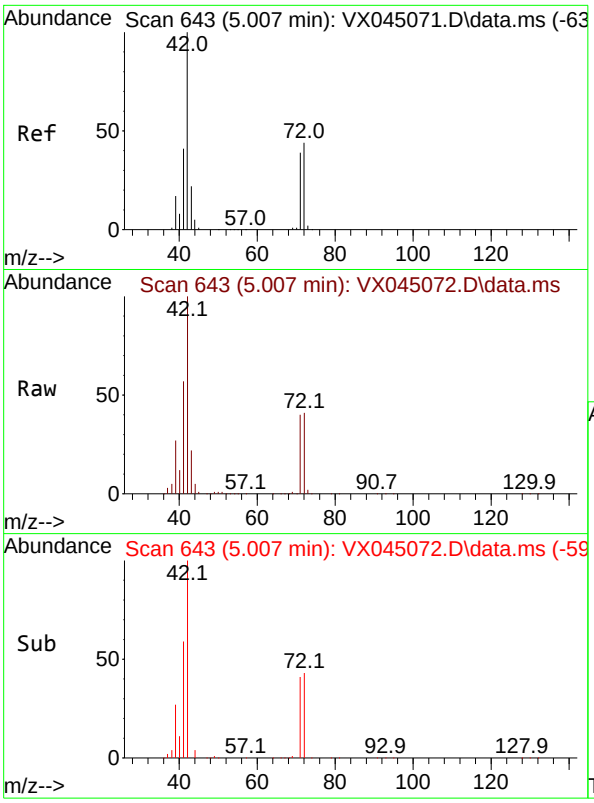


#28
Bromochloromethane
Concen: 94.428 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 49 Resp: 113848

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	72.2	56.1	84.1





#29
Tetrahydrofuran
Concen: 556.465 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

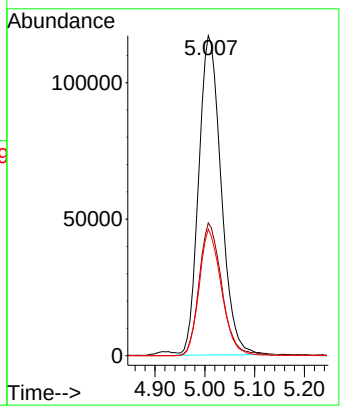
Tgt Ion: 42 Resp: 36556

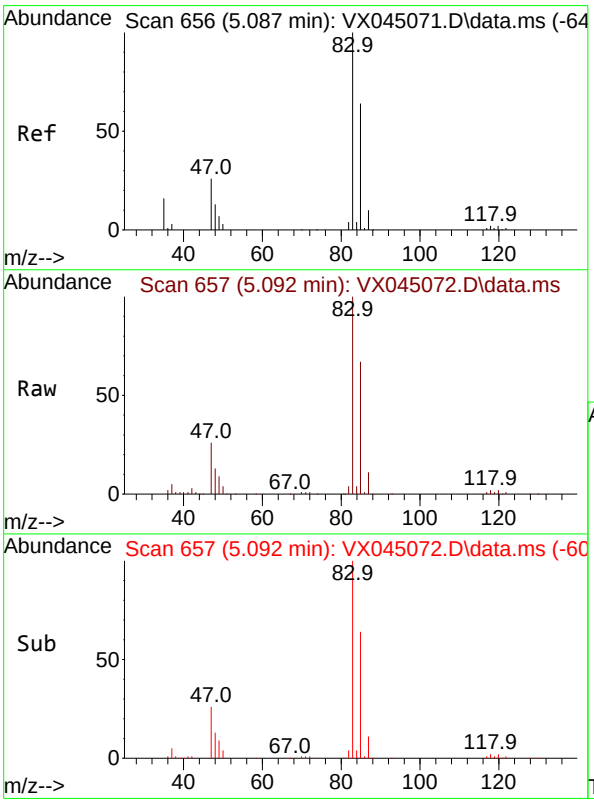
Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.1	51.1
71	39.2	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

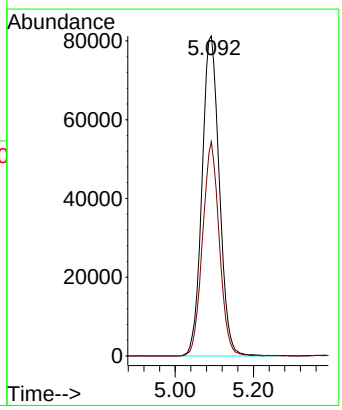


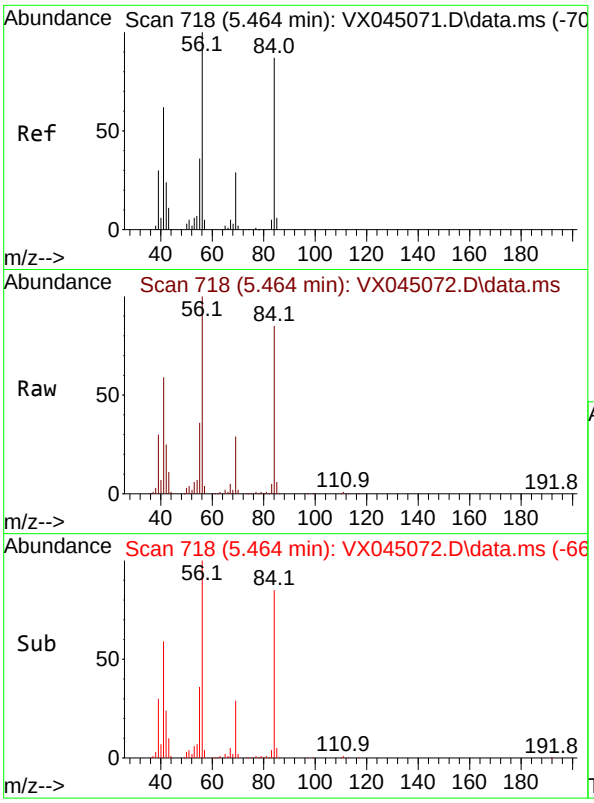


#30
Chloroform
Concen: 101.814 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 248978

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.4	77.2

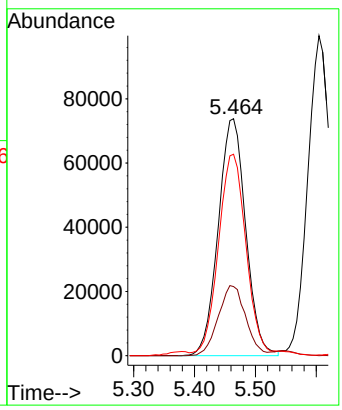




#31
Cyclohexane
Concen: 100.711 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 56 Resp: 23108

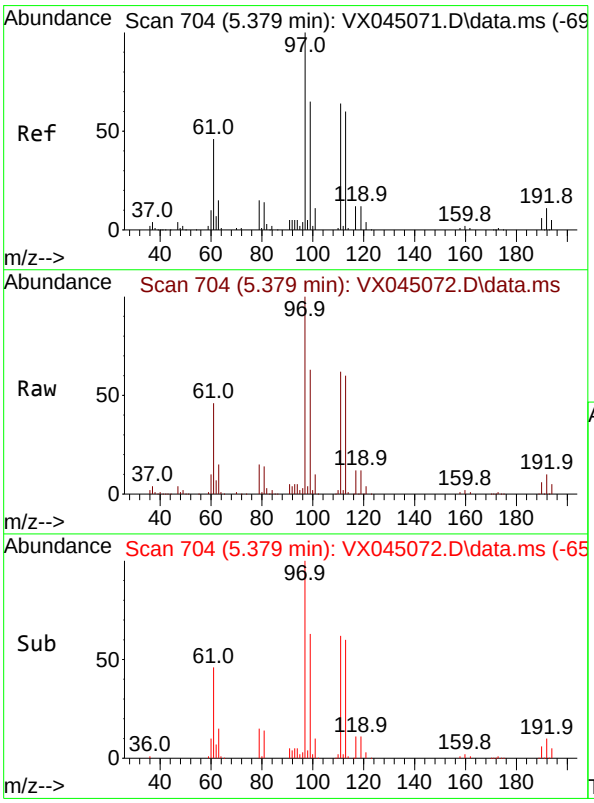
Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.4	35.2
84	83.3	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

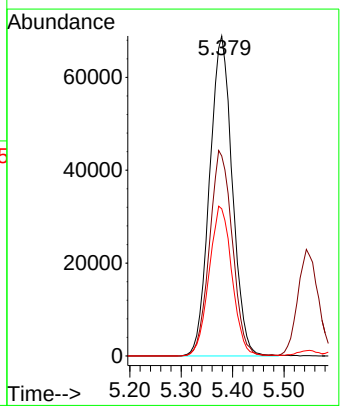
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

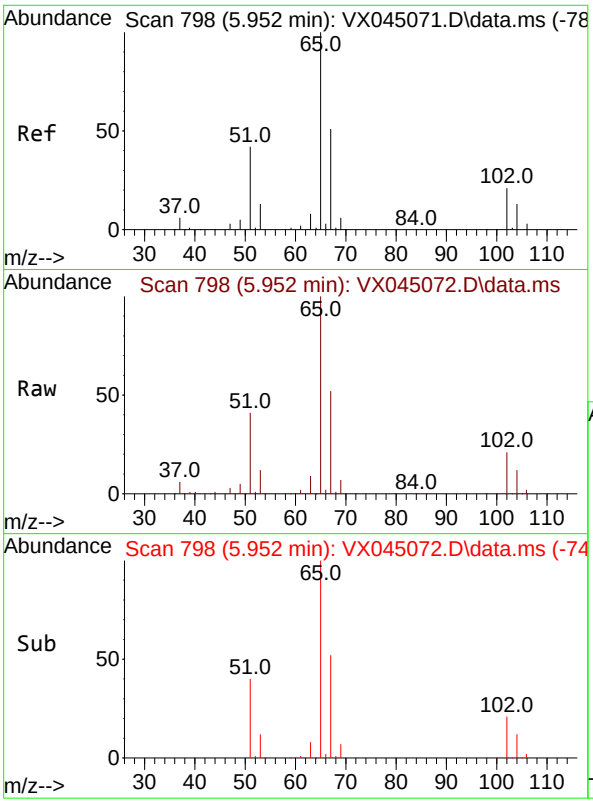


#32
1,1,1-Trichloroethane
Concen: 102.638 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 97 Resp: 211302

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	47.3	38.4	57.6

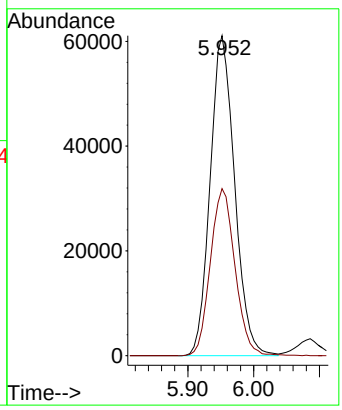




#33
1,2-Dichloroethane-d4
Concen: 106.011 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 65 Resp: 15845

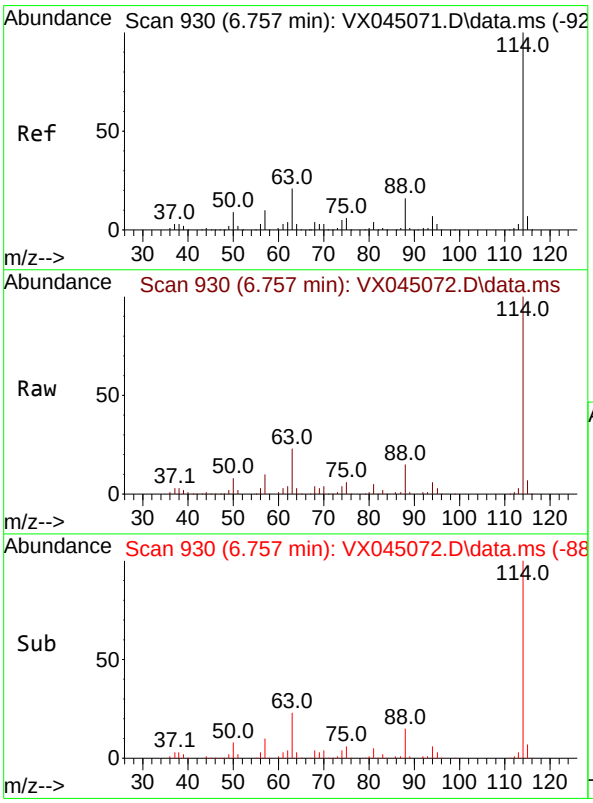
Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

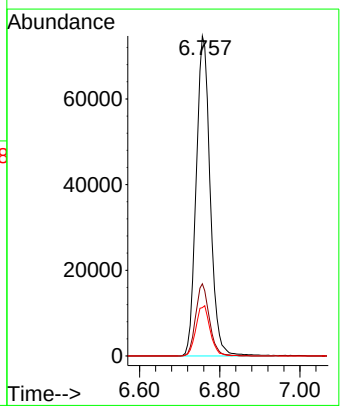
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

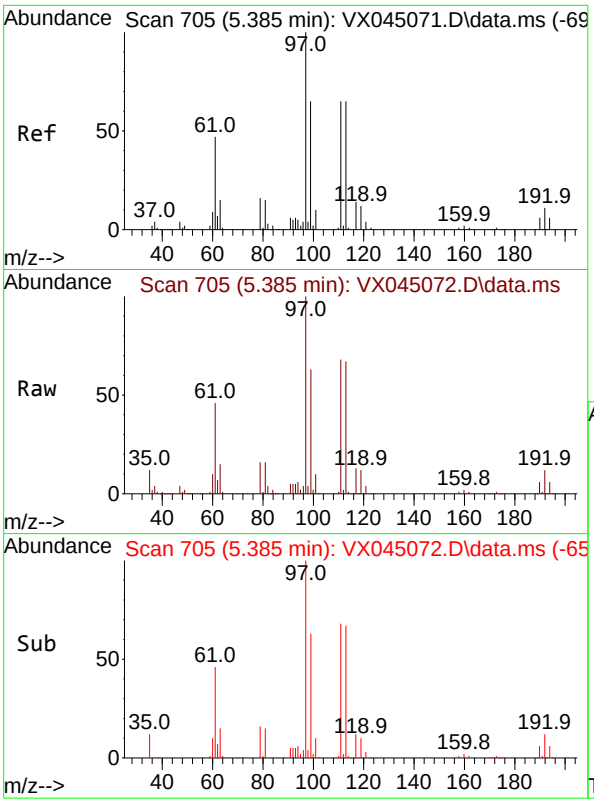


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:114 Resp: 181031

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	41.8
88	15.1	0.0	32.8

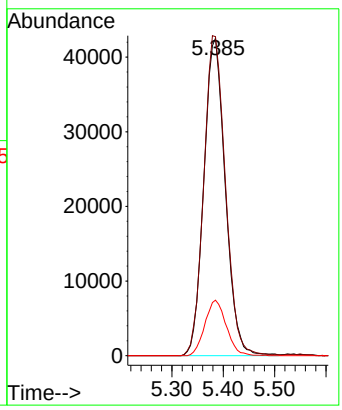




#35
Dibromofluoromethane
Concen: 104.110 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:113 Resp: 12318

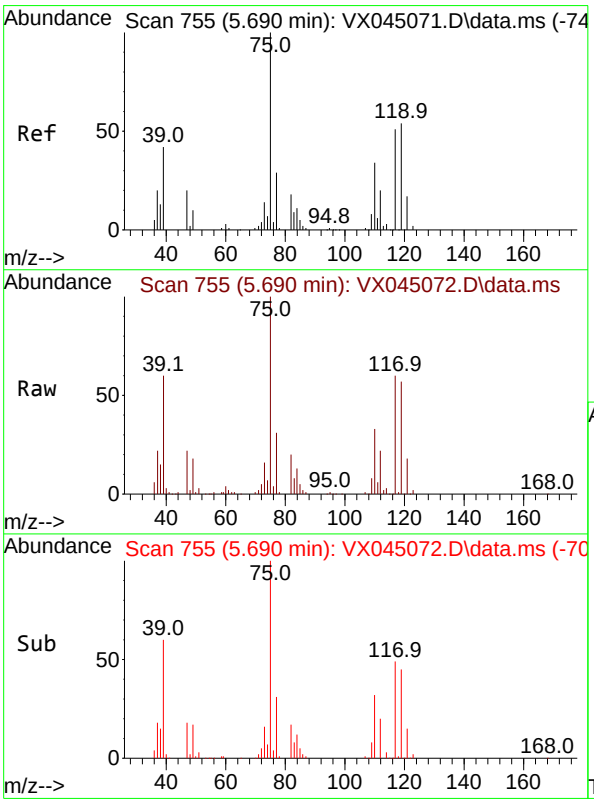
Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	17.5	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

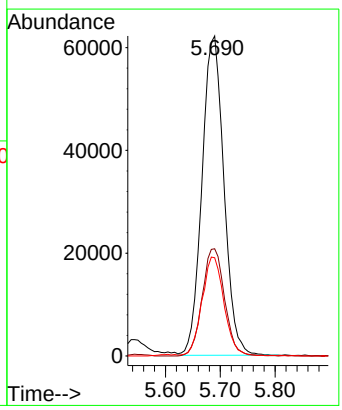
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

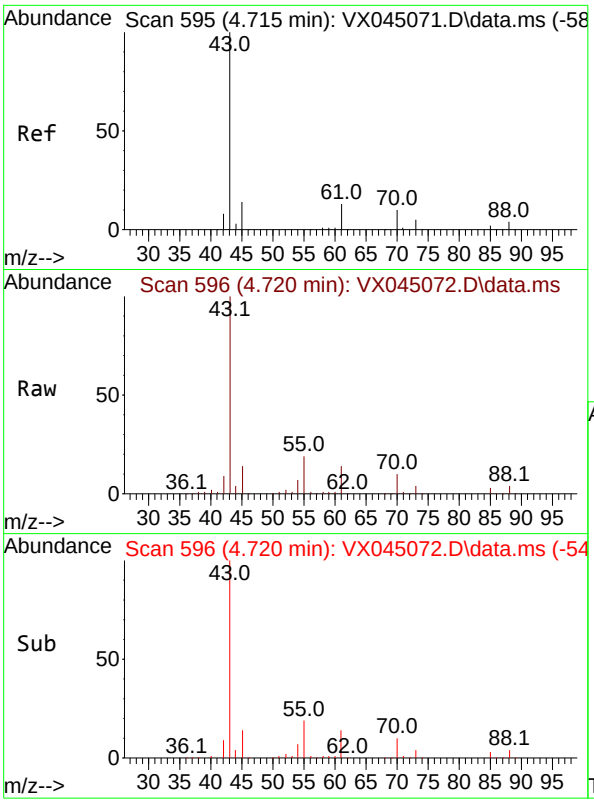


#36
1,1-Dichloropropene
Concen: 101.258 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 172295

Ion	Ratio	Lower	Upper
75	100		
110	34.4	16.9	50.6
77	31.0	24.5	36.7

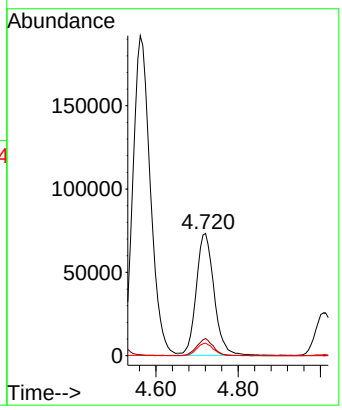




#37
Ethyl Acetate
Concen: 113.796 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 22032

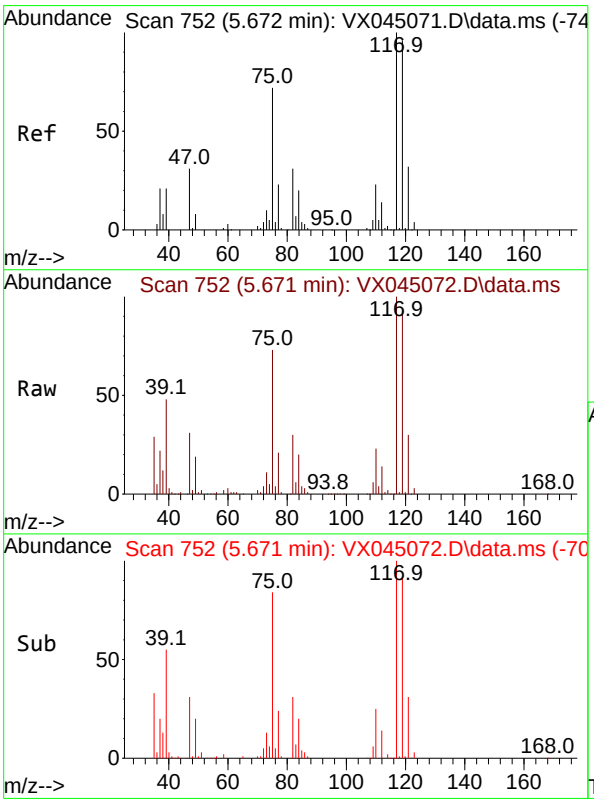
Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.8	16.2
70	9.6	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

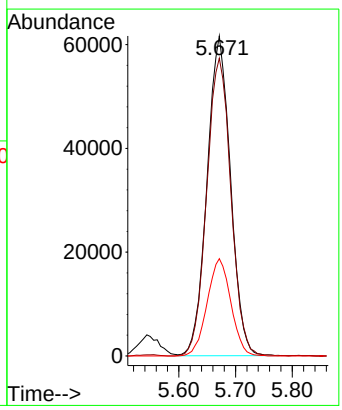
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

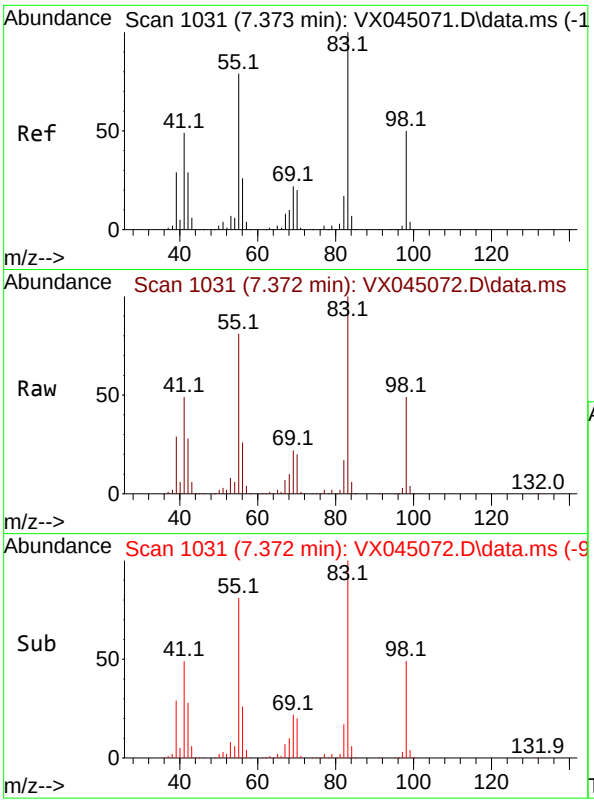


#38
Carbon Tetrachloride
Concen: 105.940 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 177219

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.7	115.1
121	30.4	25.5	38.3

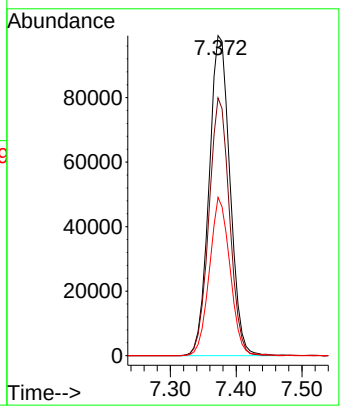




#39
Methylcyclohexane
Concen: 101.175 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 21985

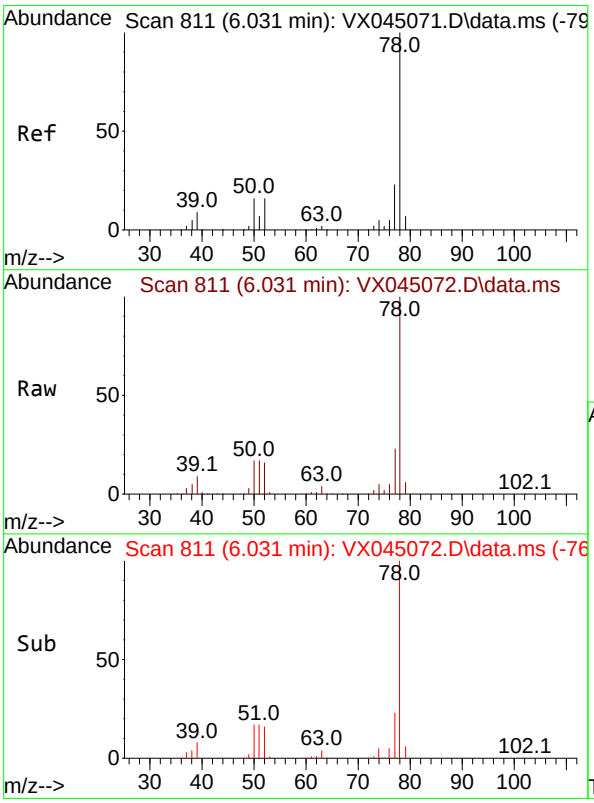
Ion	Ratio	Lower	Upper
83	100		
55	80.6	63.0	94.4
98	49.5	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

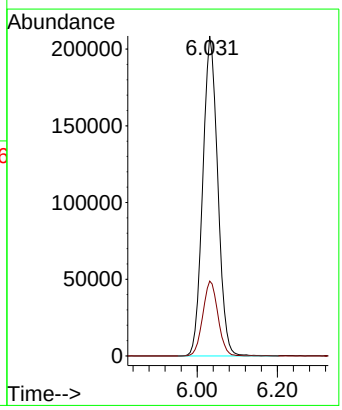
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

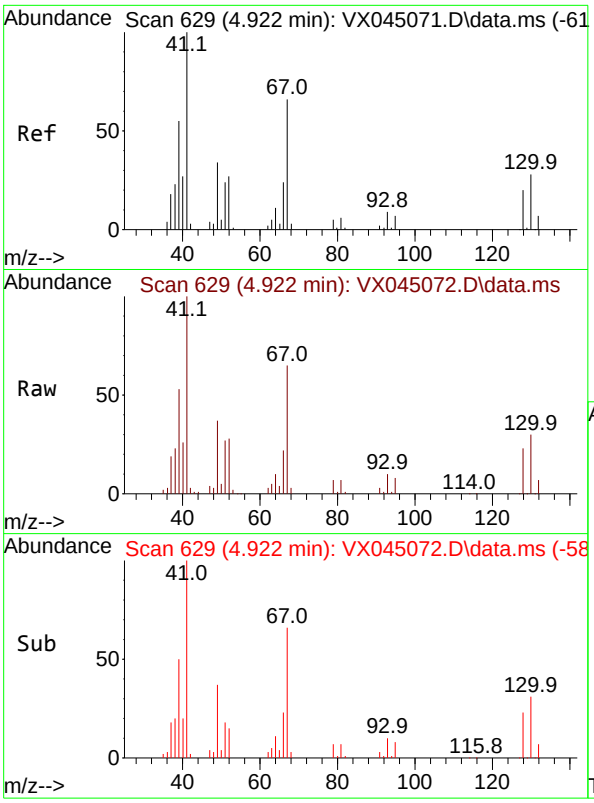


#40
Benzene
Concen: 101.908 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 78 Resp: 541974

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2

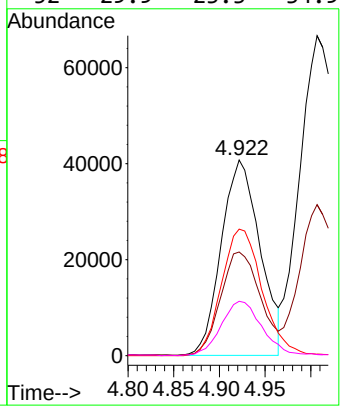




#41
Methacrylonitrile
Concen: 116.205 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 12018

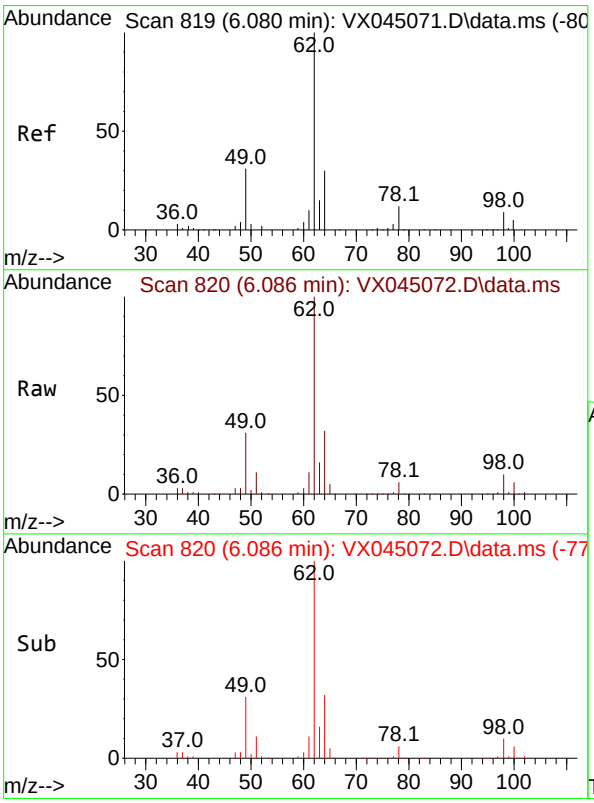
Ion	Ratio	Lower	Upper
41	100		
39	54.3	44.6	67.0
67	68.3	53.9	80.9
52	29.9	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

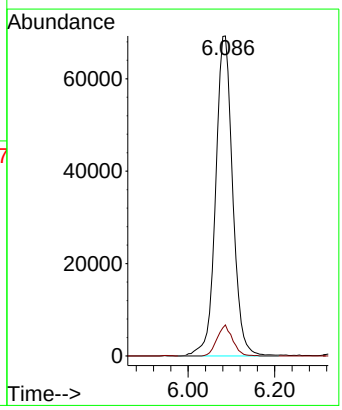
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

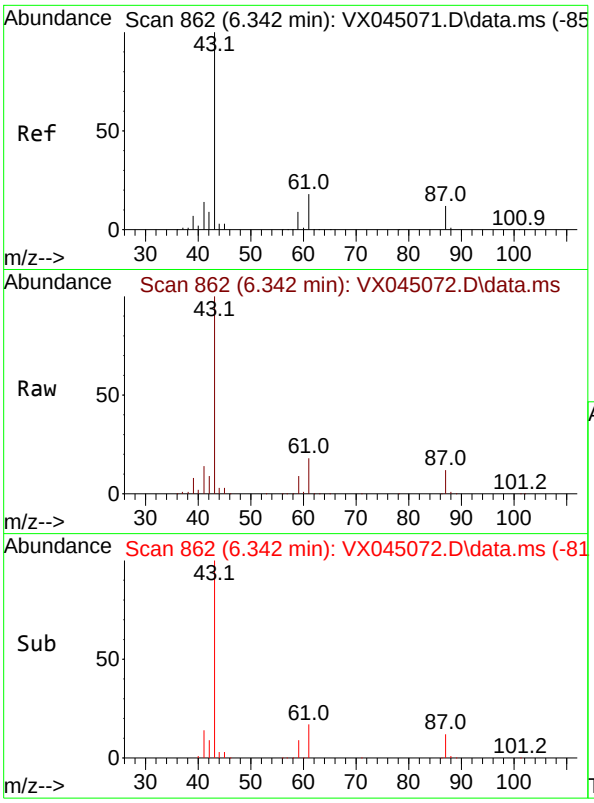


#42
1,2-Dichloroethane
Concen: 110.158 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 189857

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2





#43
Isopropyl Acetate
Concen: 109.806 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

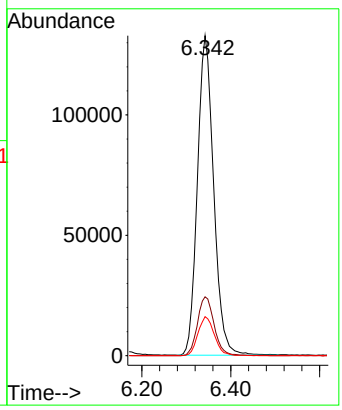
Tgt Ion: 43 Resp: 33841

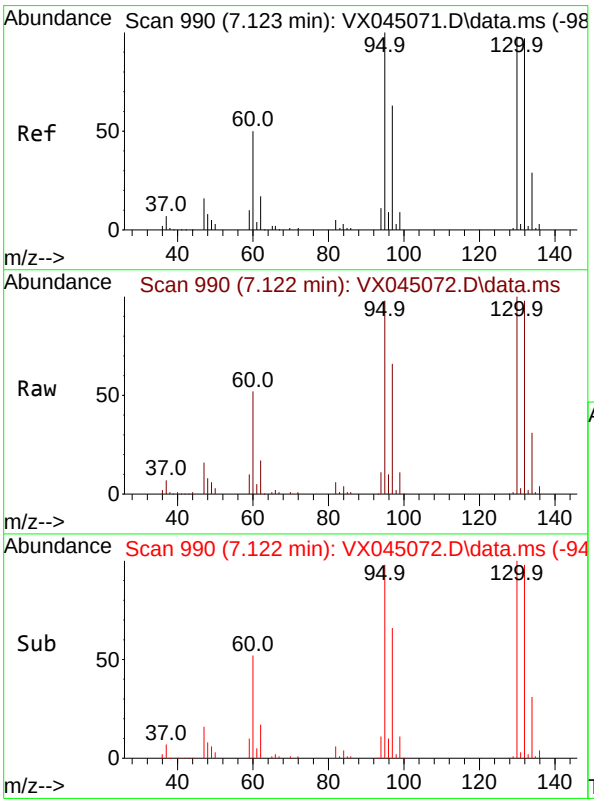
Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	12.3	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

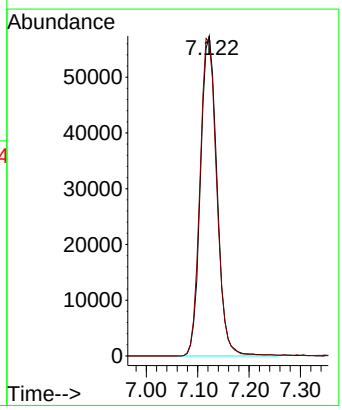


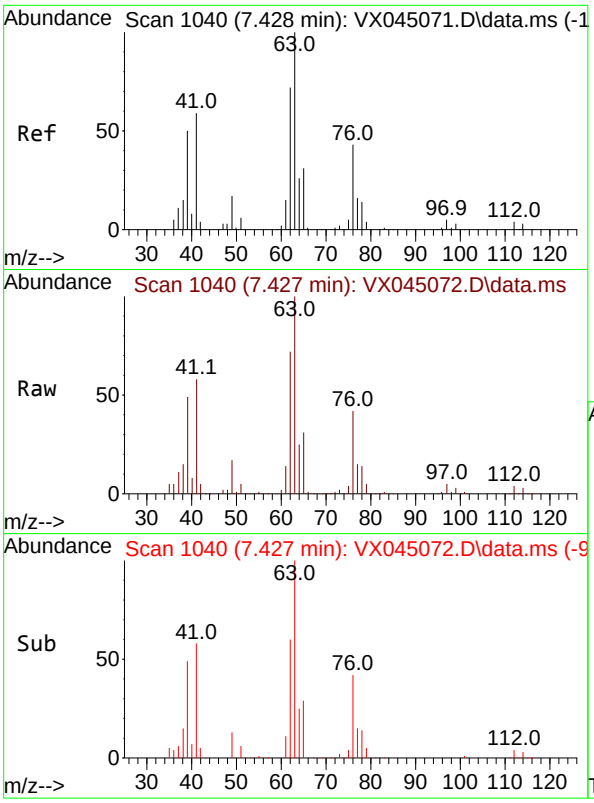


#44
Trichloroethene
Concen: 105.402 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:130 Resp: 128124

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	205.0

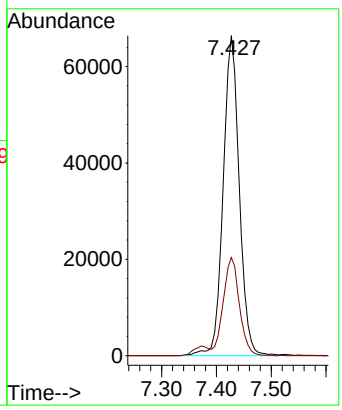




#45
1,2-Dichloropropane
Concen: 102.898 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 13599

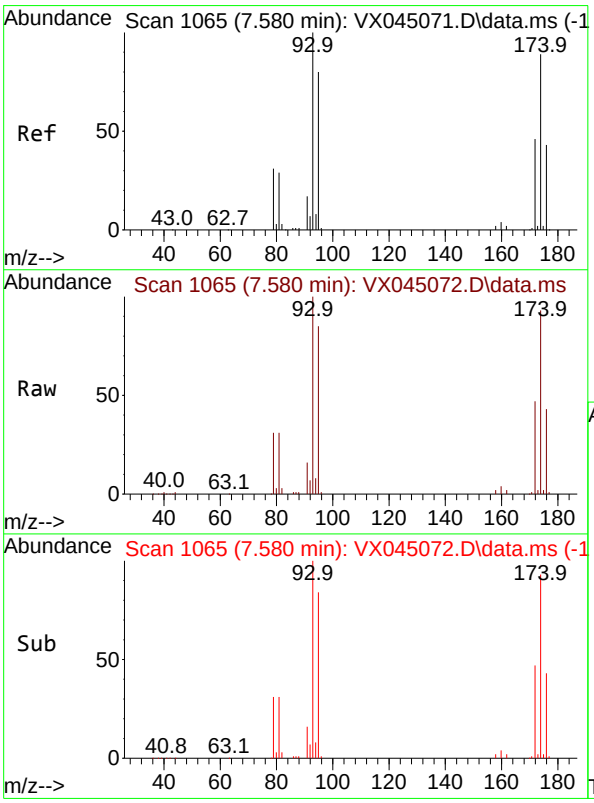
Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

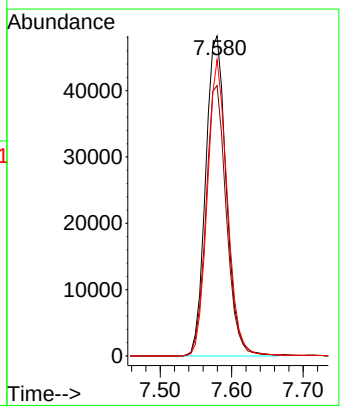
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

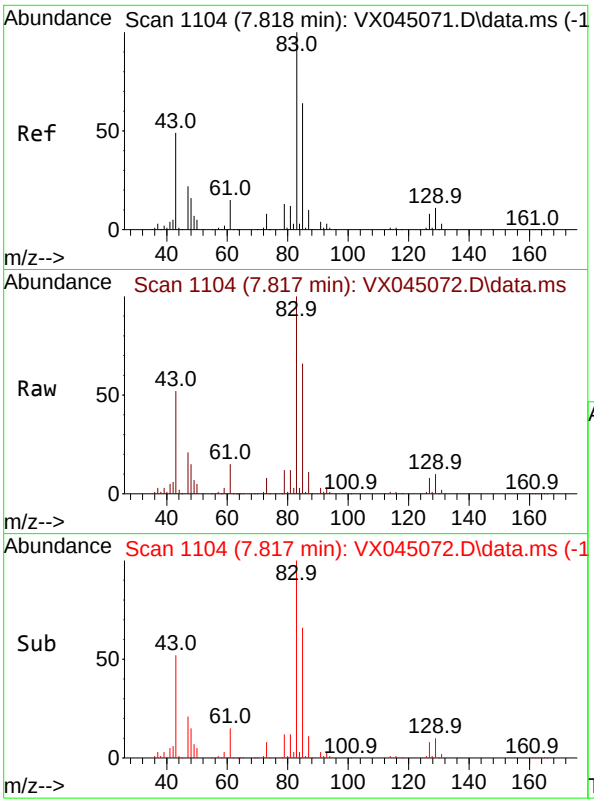


#46
Dibromomethane
Concen: 105.329 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 93 Resp: 97248

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.8	98.8
174	89.0	72.2	108.2

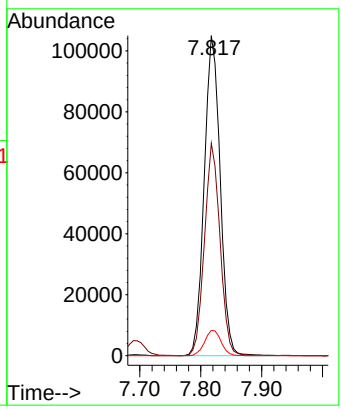




#47
Bromodichloromethane
Concen: 106.947 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 19101

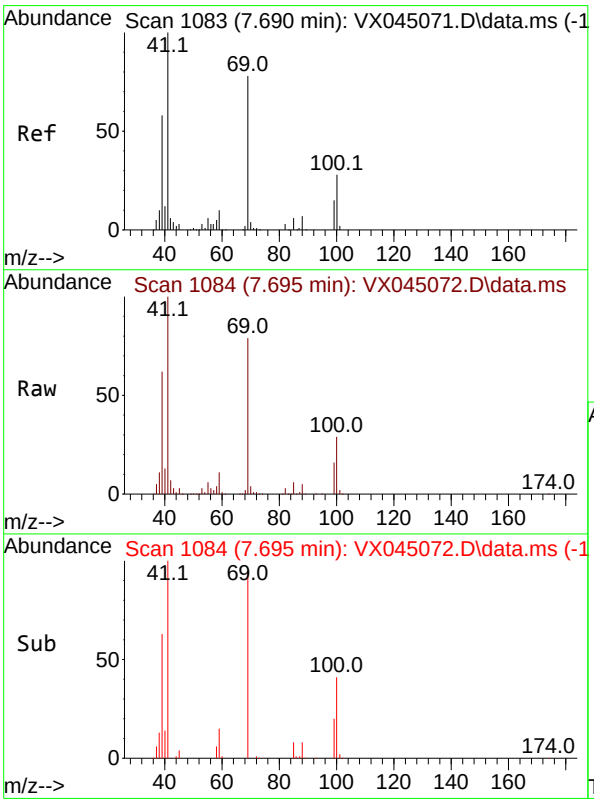
Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7
127	7.9	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

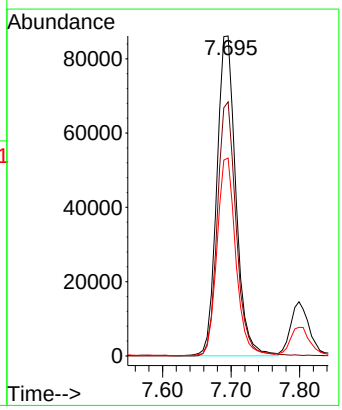
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

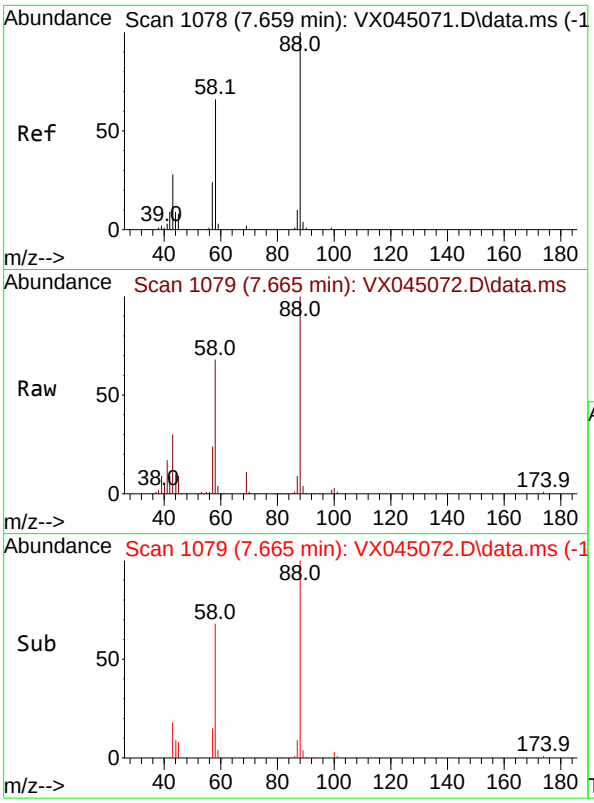


#48
Methyl methacrylate
Concen: 113.344 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 165825

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.0	94.6
39	60.9	47.5	71.3

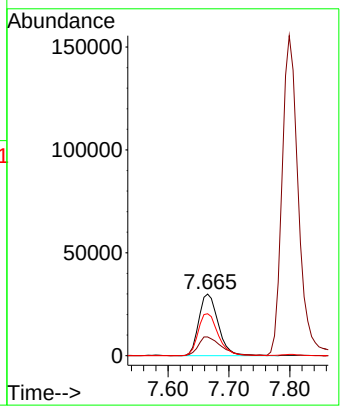




#49
1,4-Dioxane
Concen: 2132.314 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 88 Resp: 6630

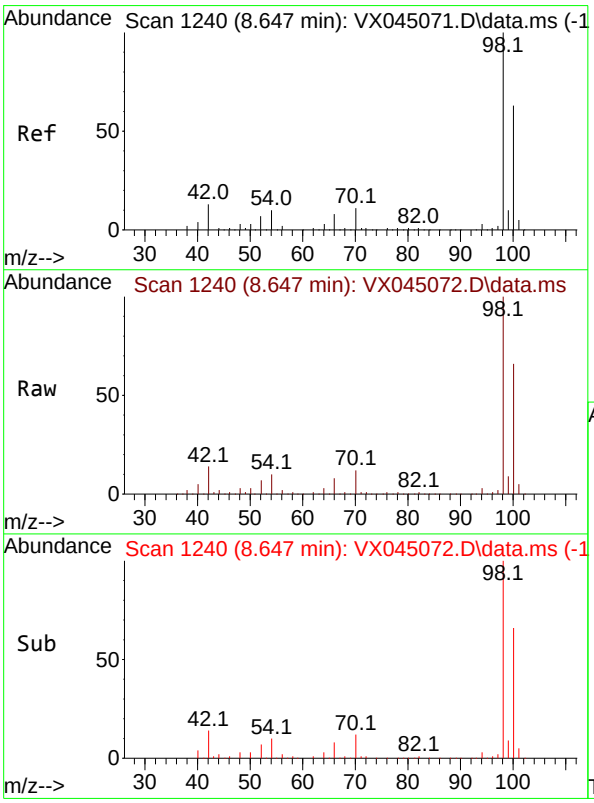
Ion	Ratio	Lower	Upper
88	100		
43	35.6	28.7	43.1
58	70.5	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

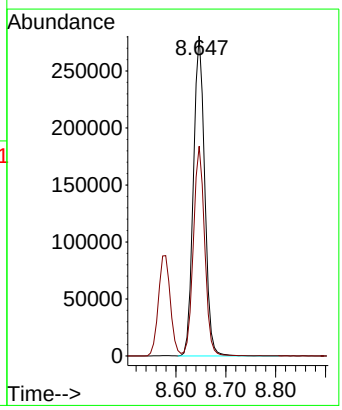
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

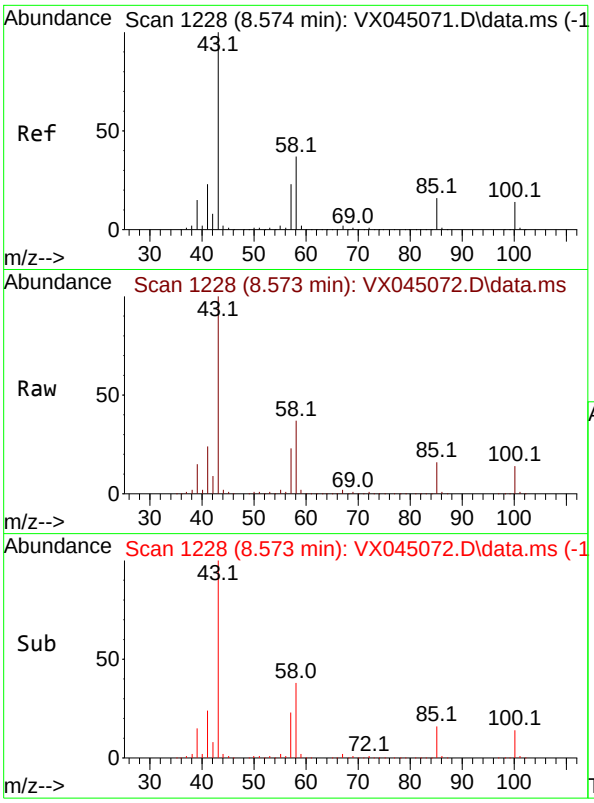


#50
Toluene-d8
Concen: 99.595 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 98 Resp: 441188

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.0	78.0

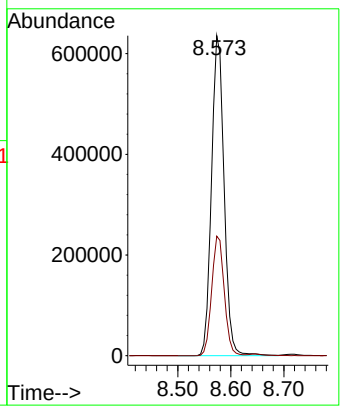




#51
4-Methyl-2-Pentanone
Concen: 555.050 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 104814

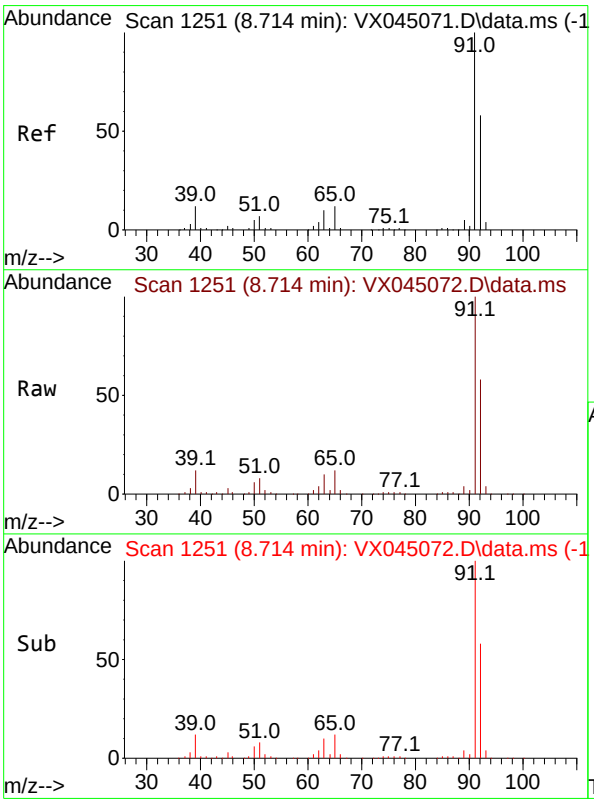
Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

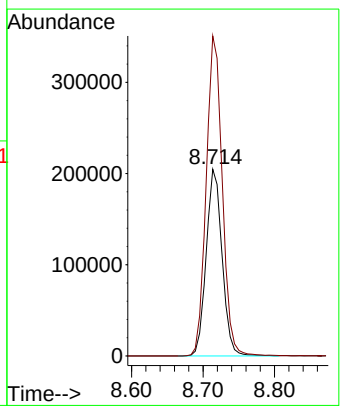
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

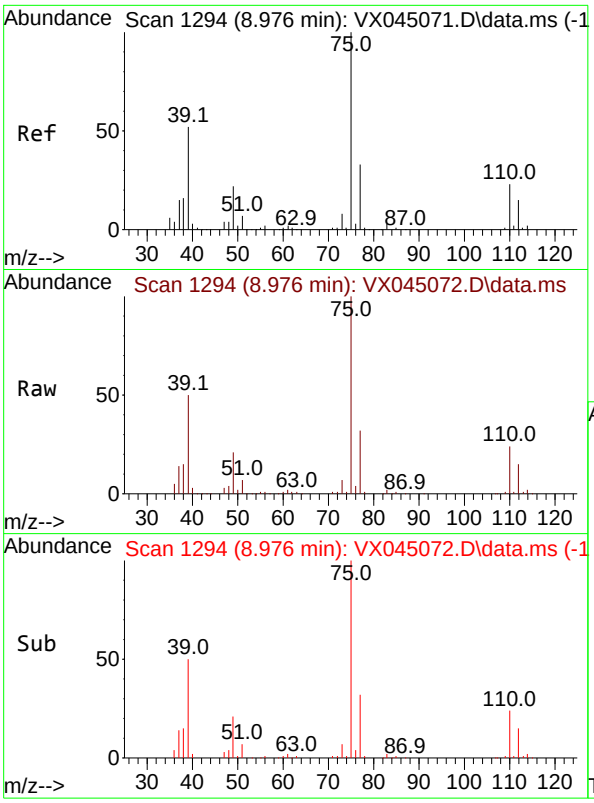


#52
Toluene
Concen: 100.178 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 92 Resp: 316349

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.9	208.3

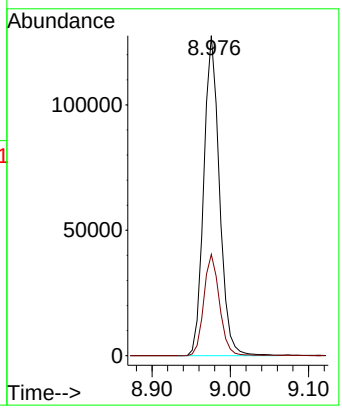




#53
t-1,3-Dichloropropene
Concen: 100.462 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 17735

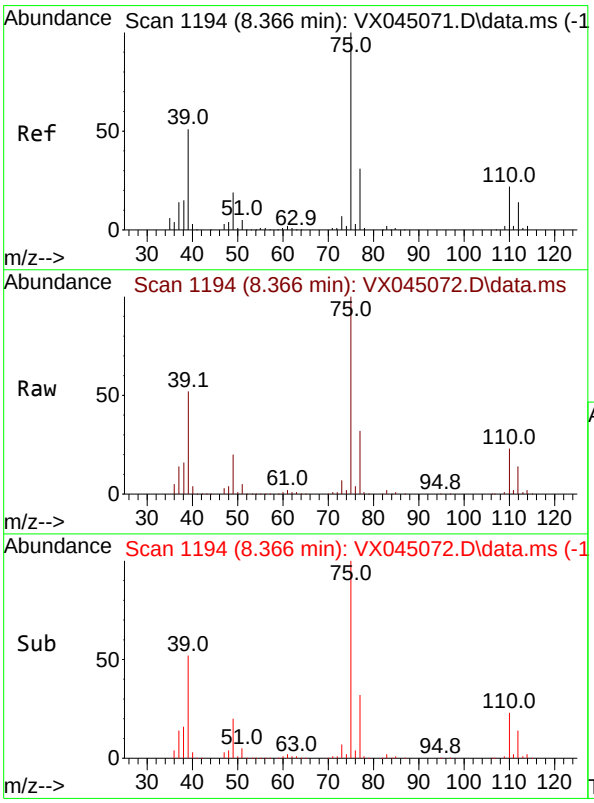
Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

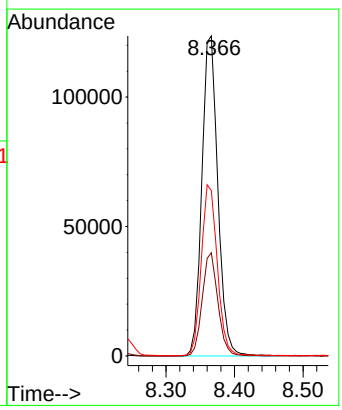
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

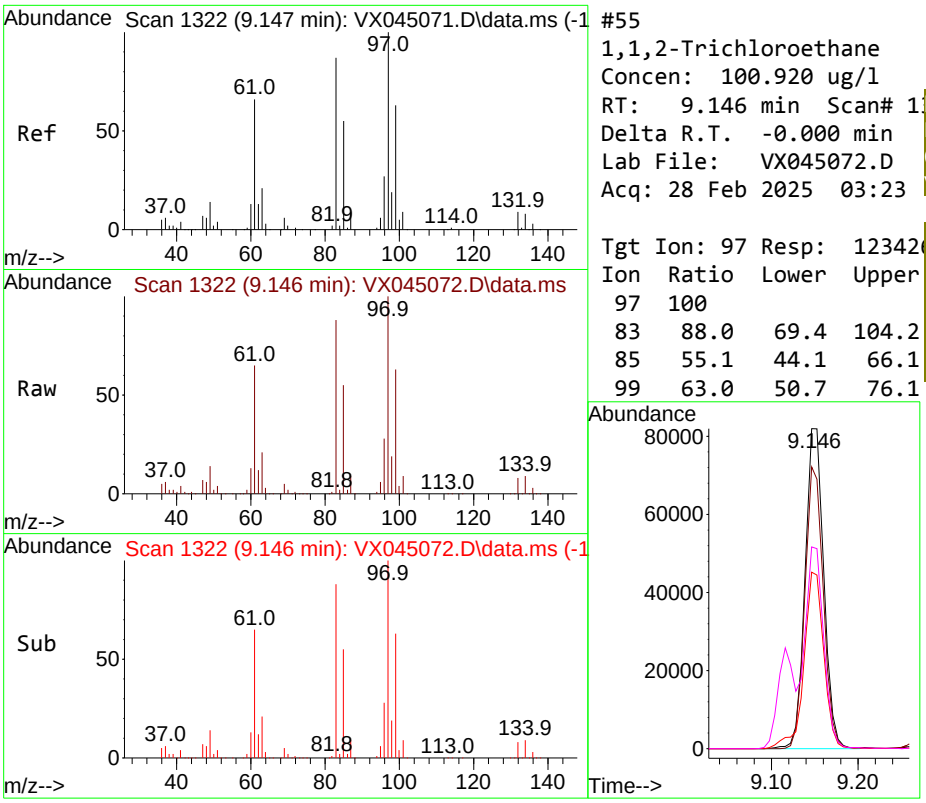


#54
cis-1,3-Dichloropropene
Concen: 101.815 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 200943

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	51.6	40.7	61.1





#55
1,1,2-Trichloroethane
Concen: 100.920 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

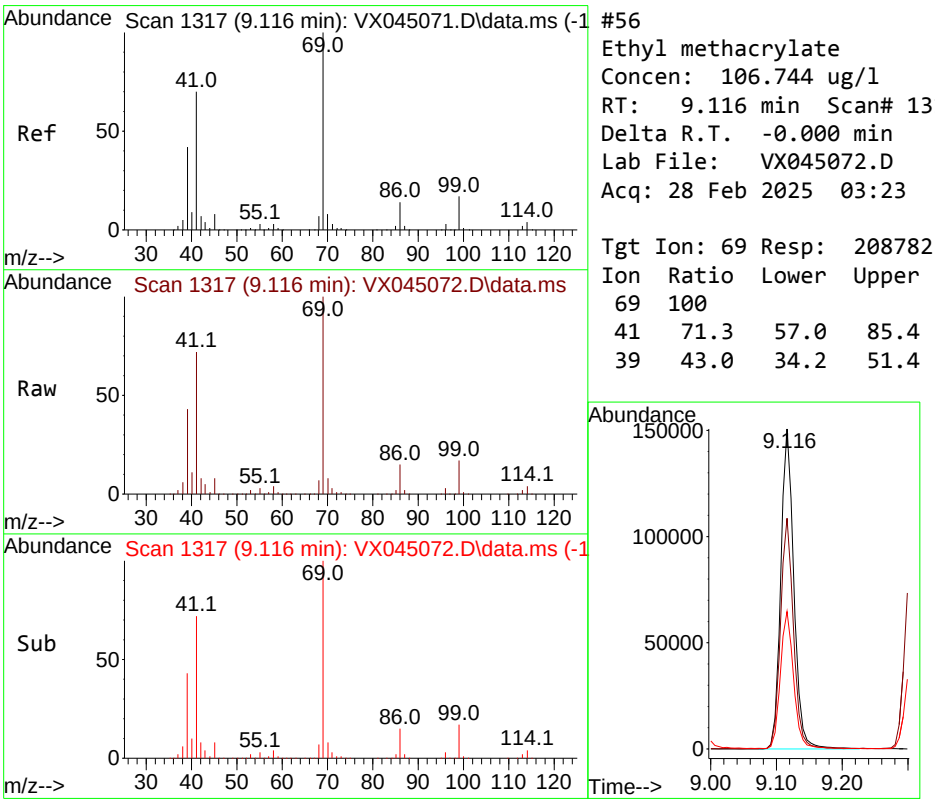
Tgt Ion: 97 Resp: 12342

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.4	104.2
85	55.1	44.1	66.1
99	63.0	50.7	76.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

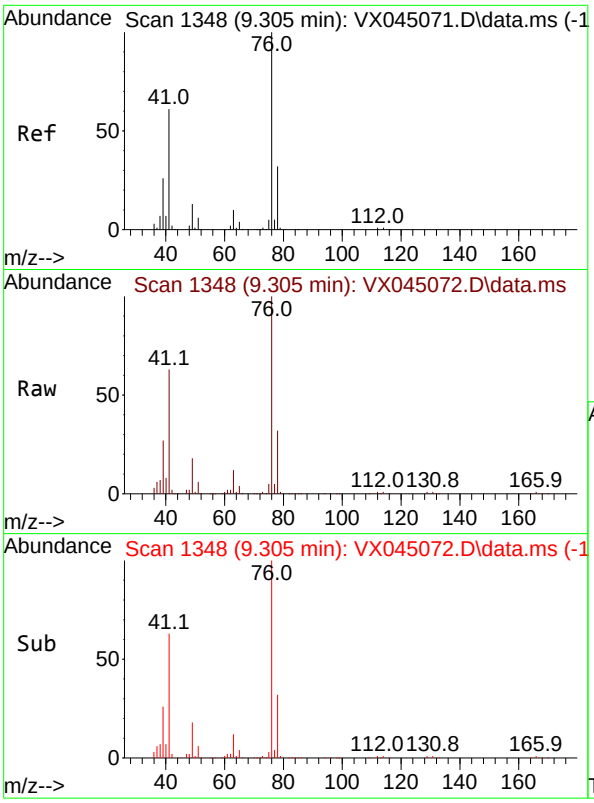
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#56
Ethyl methacrylate
Concen: 106.744 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 69 Resp: 208782

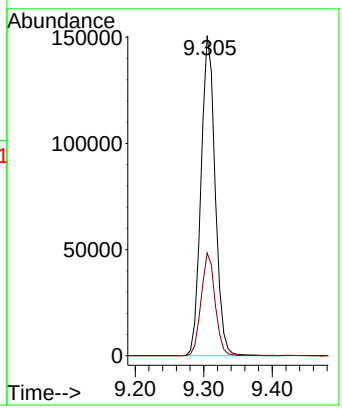
Ion	Ratio	Lower	Upper
69	100		
41	71.3	57.0	85.4
39	43.0	34.2	51.4



#57
1,3-Dichloropropane
Concen: 101.387 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 76 Resp: 21626

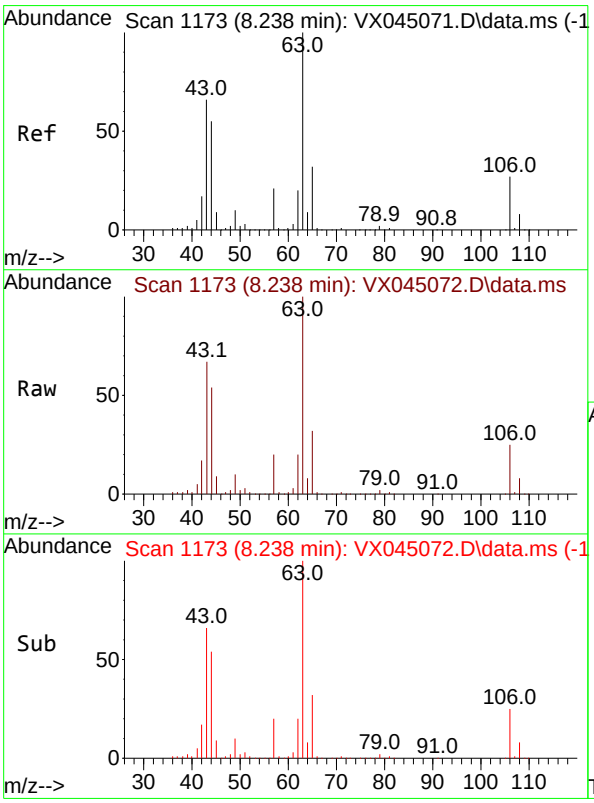
Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

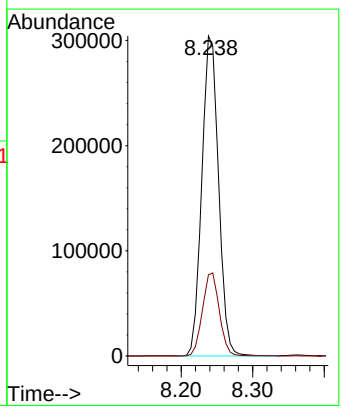
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

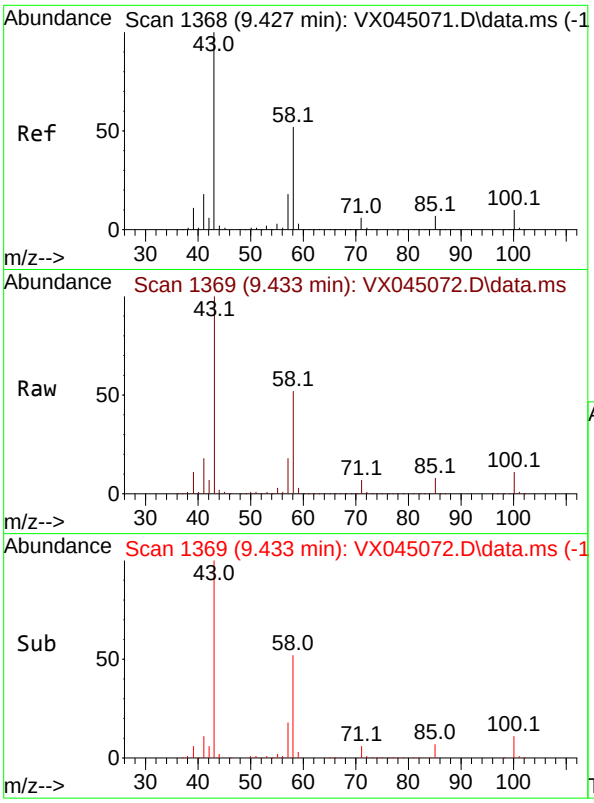


#58
2-Chloroethyl Vinyl ether
Concen: 514.987 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 494551

Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.5	32.3

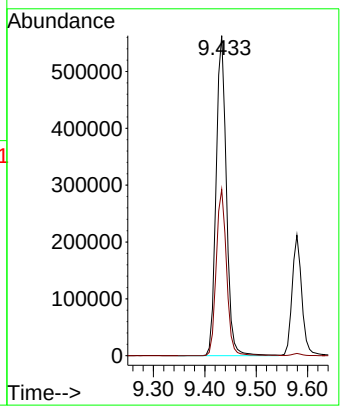




#59
2-Hexanone
Concen: 572.233 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 77949

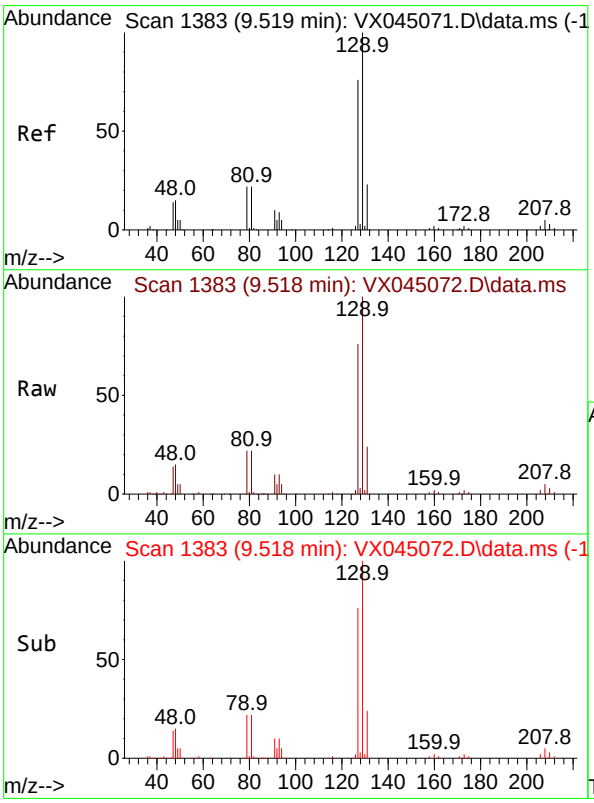
Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.9	77.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

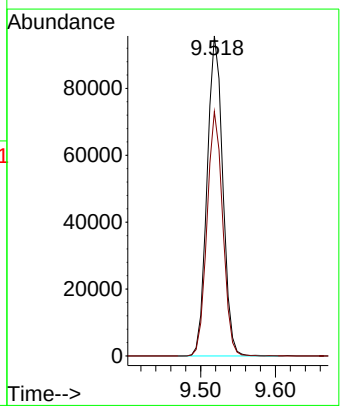
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

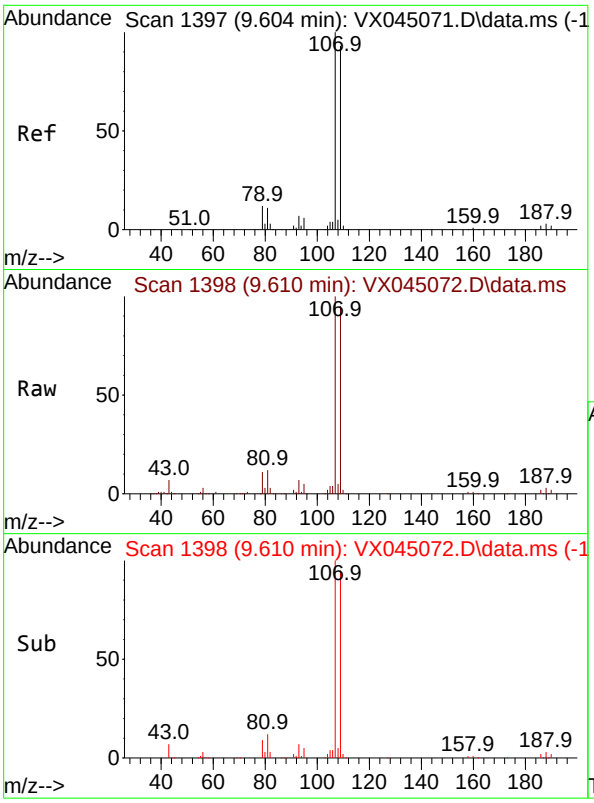


#60
Dibromochloromethane
Concen: 106.719 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:129 Resp: 139245

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.5	115.5

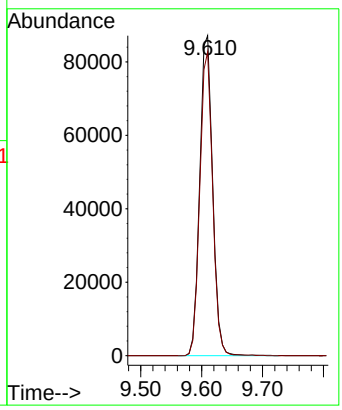




#61
1,2-Dibromoethane
Concen: 104.259 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:107 Resp: 12861

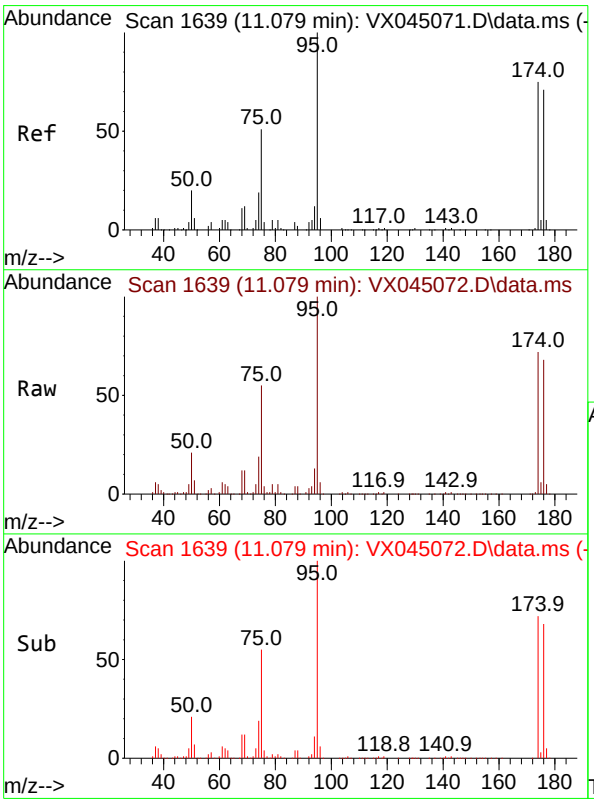
Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

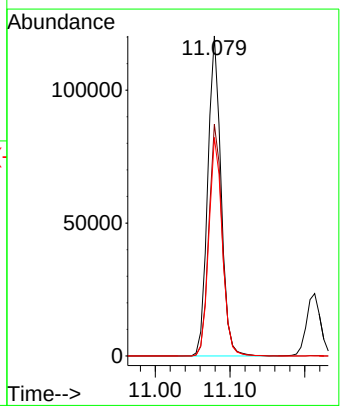
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

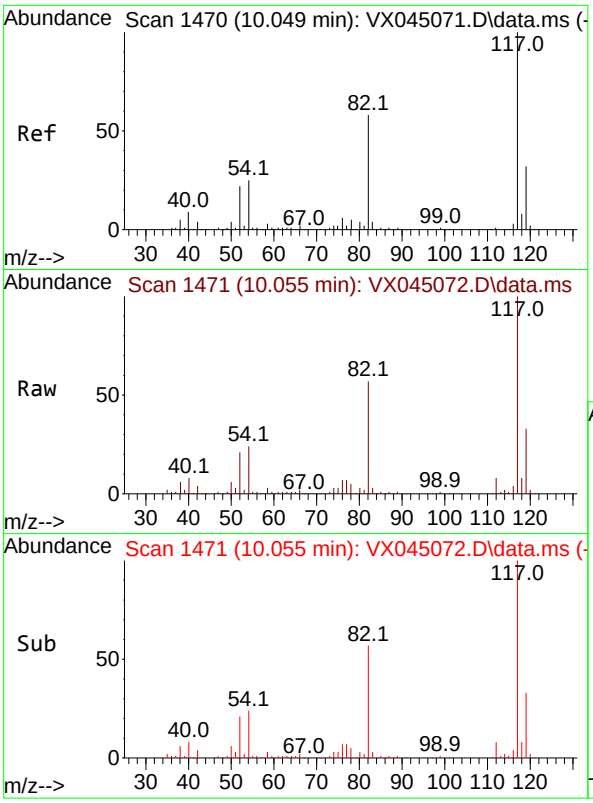


#62
4-Bromofluorobenzene
Concen: 100.365 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 95 Resp: 148476

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	148.2
176	69.2	0.0	141.4

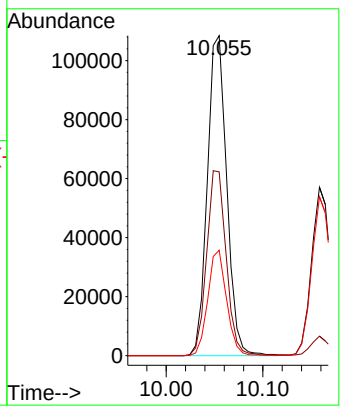




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 15117

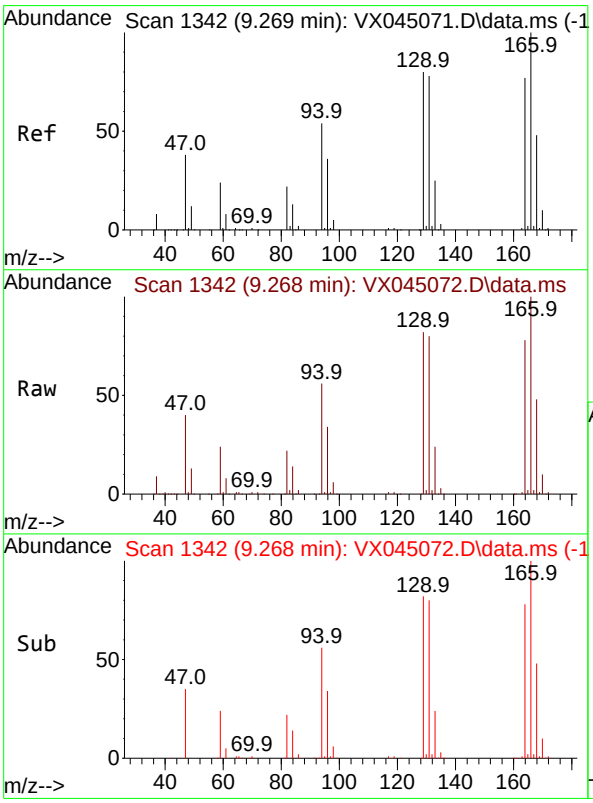
Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.3	69.5
119	33.0	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

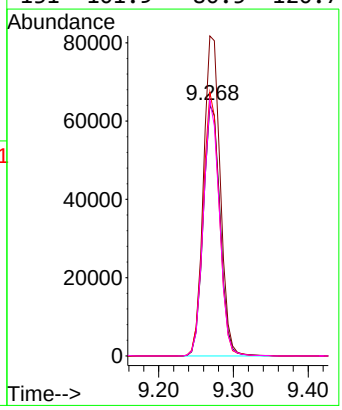
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

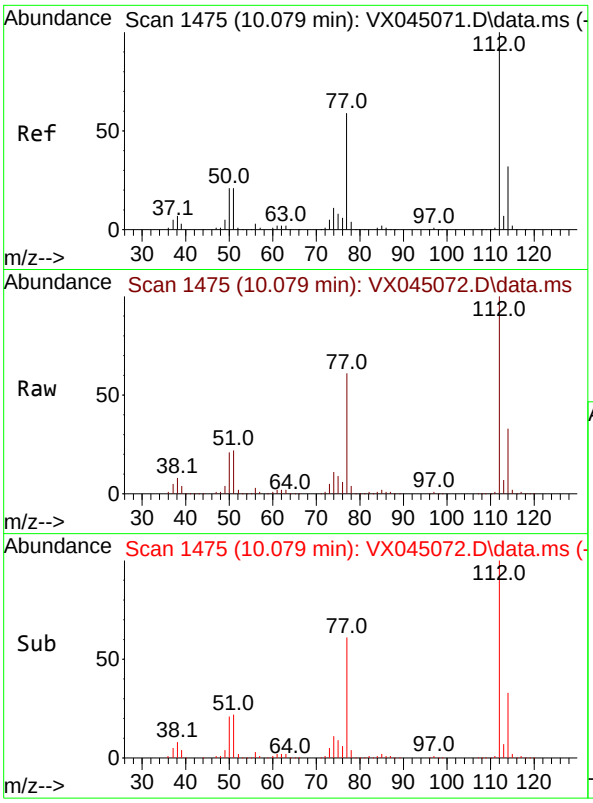


#64
Tetrachloroethene
Concen: 103.491 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:164 Resp: 99386

Ion	Ratio	Lower	Upper
164	100		
166	127.6	103.6	155.4
129	105.2	82.7	124.1
131	101.9	80.5	120.7

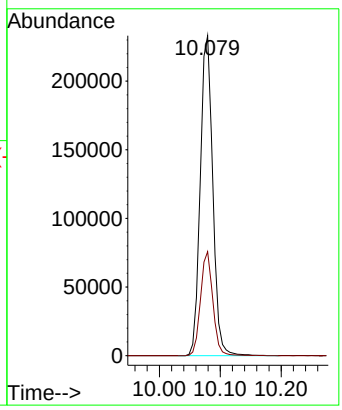




#65
Chlorobenzene
Concen: 102.456 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:112 Resp: 33247

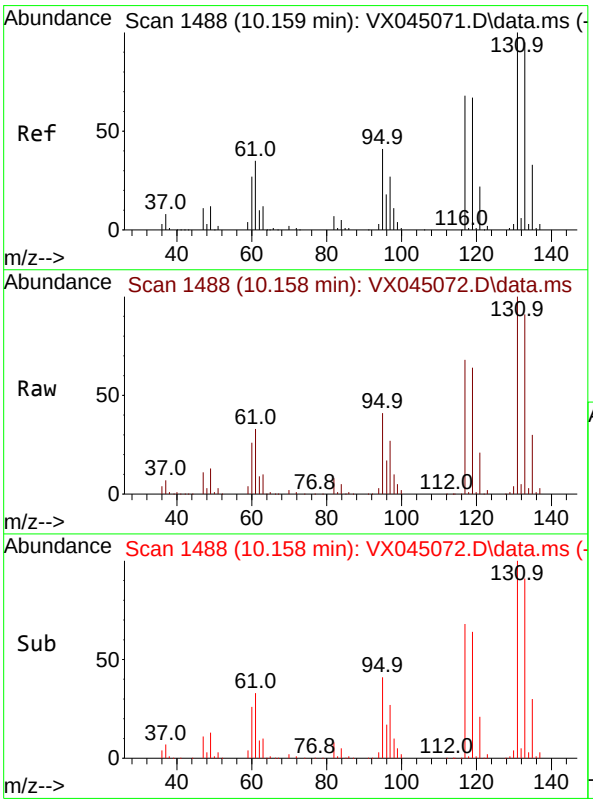
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

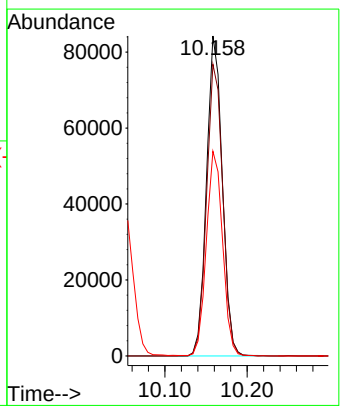
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

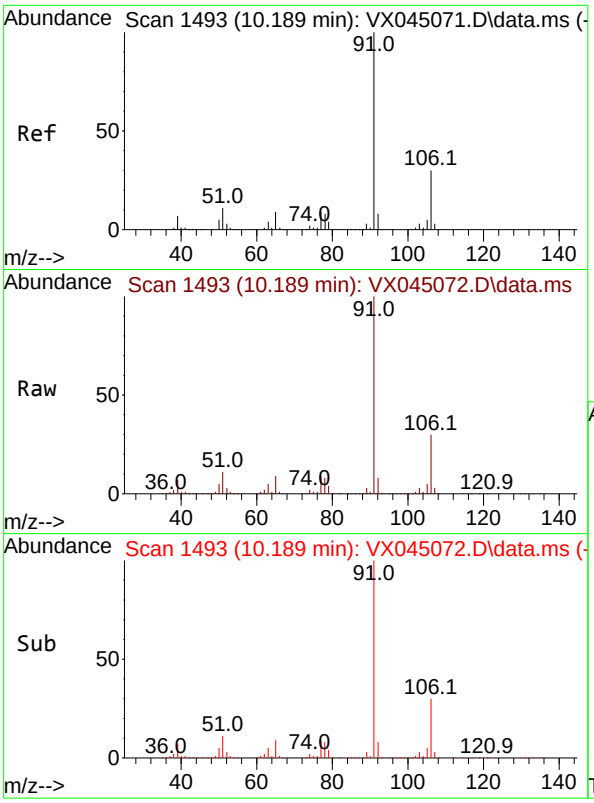


#66
1,1,1,2-Tetrachloroethane
Concen: 107.511 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:131 Resp: 112451

Ion	Ratio	Lower	Upper
131	100		
133	93.1	48.6	145.9
119	65.8	33.9	101.7

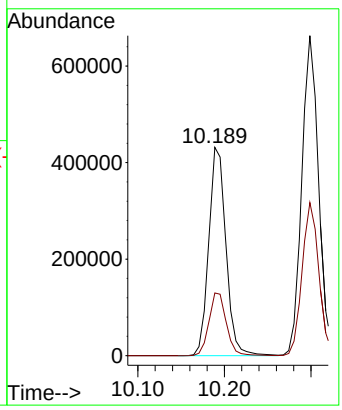




#67
Ethyl Benzene
Concen: 103.905 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 59625

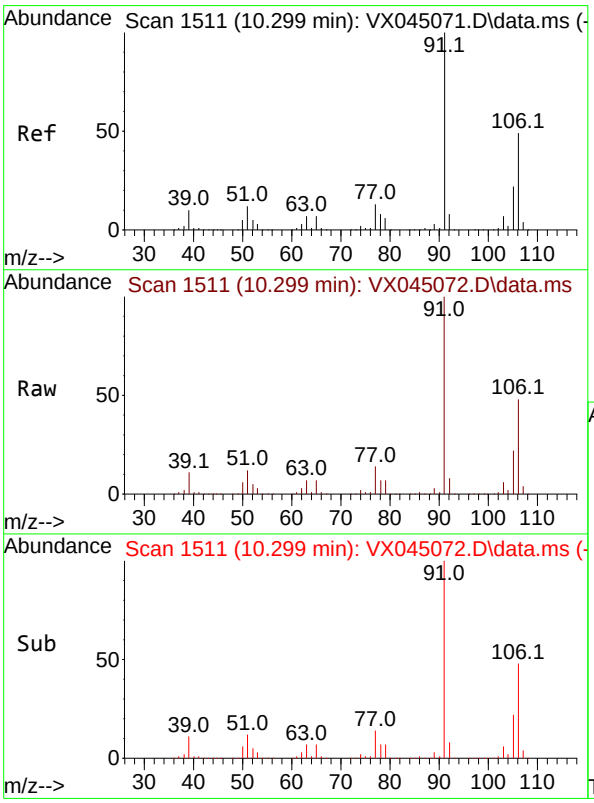
Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

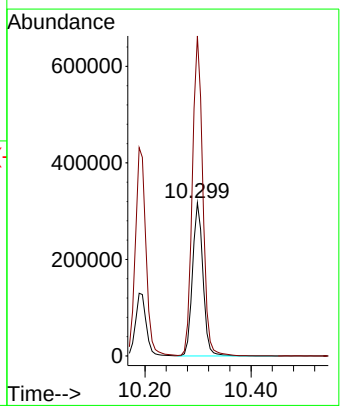
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

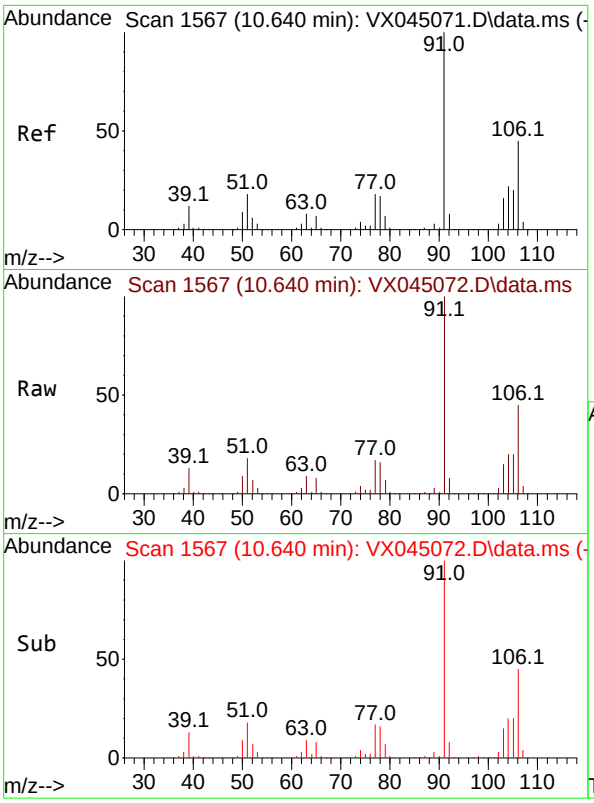


#68
m/p-Xylenes
Concen: 204.507 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:106 Resp: 432214

Ion	Ratio	Lower	Upper
106	100		
91	208.9	165.4	248.0

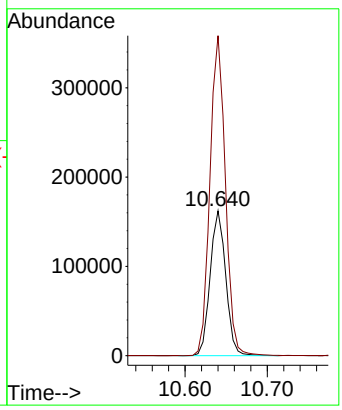




#69
o-Xylene
Concen: 100.849 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:106 Resp: 21383

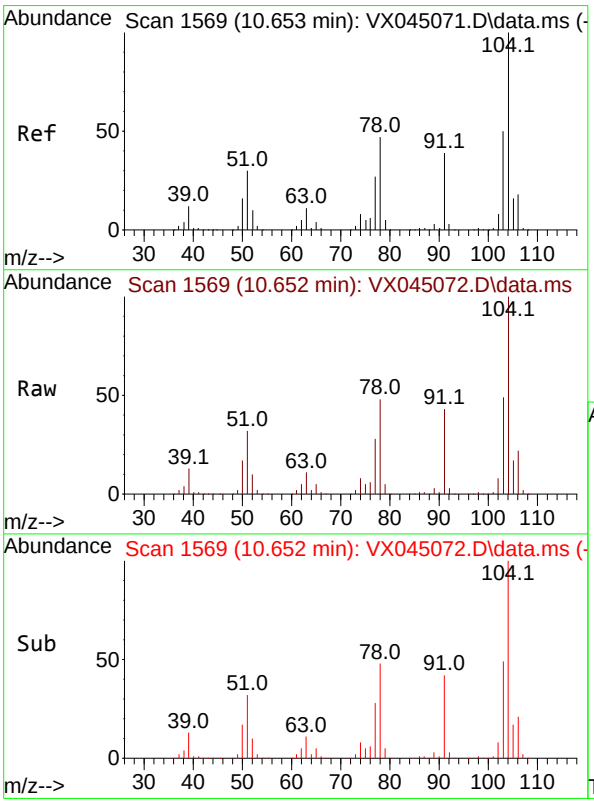
Ion	Ratio	Lower	Upper
106	100		
91	218.2	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

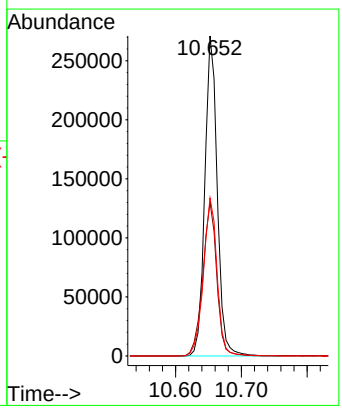
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

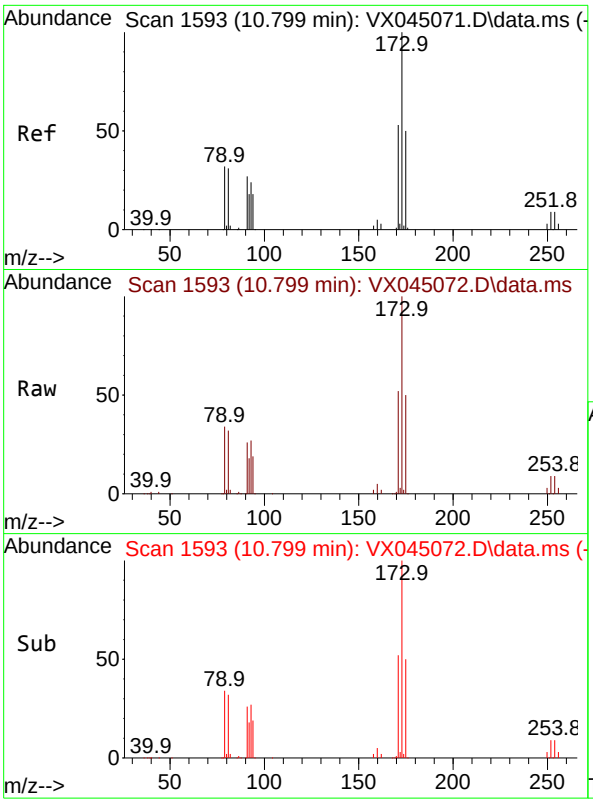


#70
Styrene
Concen: 104.948 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:104 Resp: 357649

Ion	Ratio	Lower	Upper
104	100		
78	53.7	42.2	63.4
103	54.3	43.8	65.8

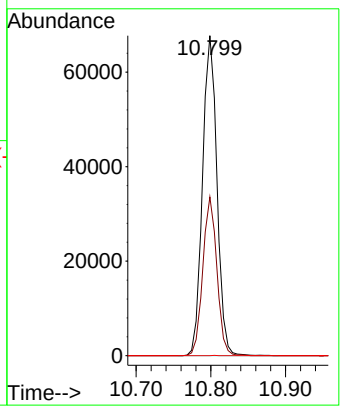




#71
Bromoform
Concen: 116.751 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:173 Resp: 9080

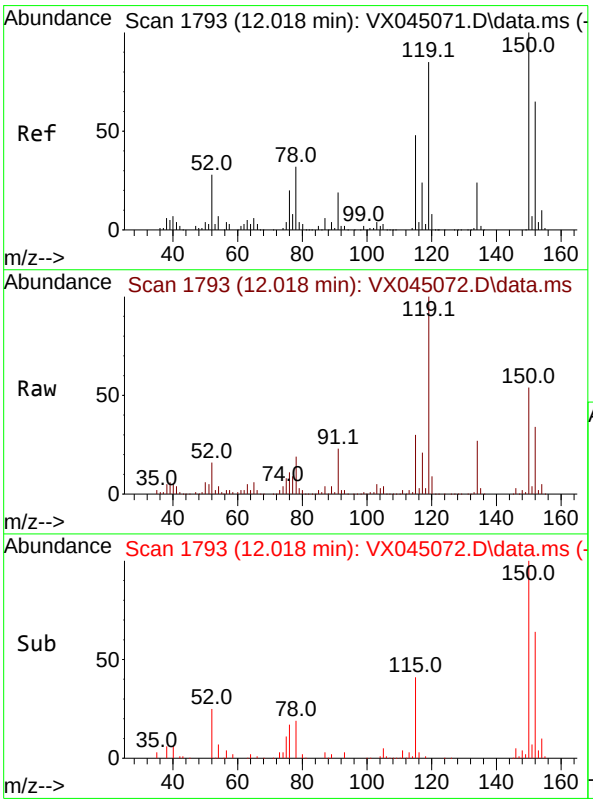
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

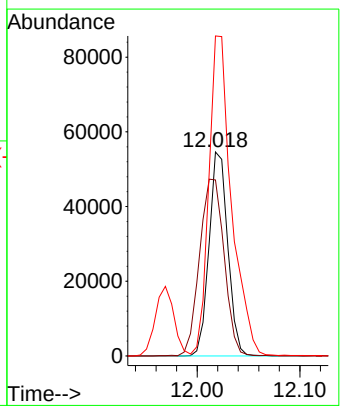
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

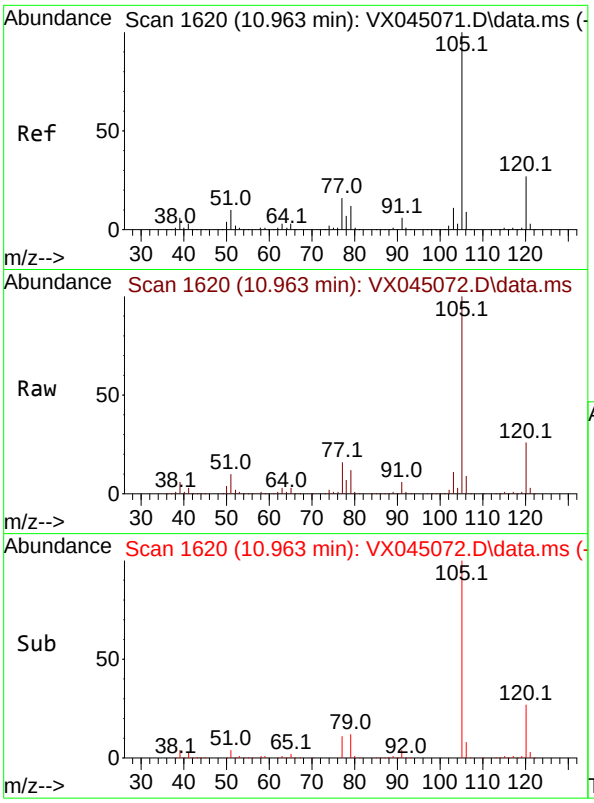


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:152 Resp: 69086

Ion	Ratio	Lower	Upper
152	100		
115	114.1	44.2	132.6
150	190.7	0.0	349.0

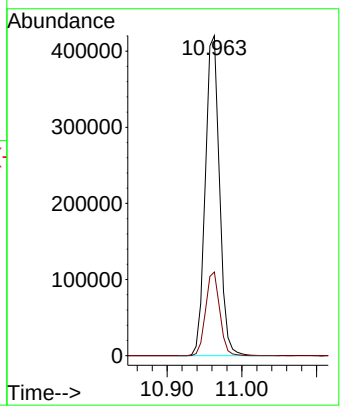




#73
Isopropylbenzene
Concen: 99.138 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 55353

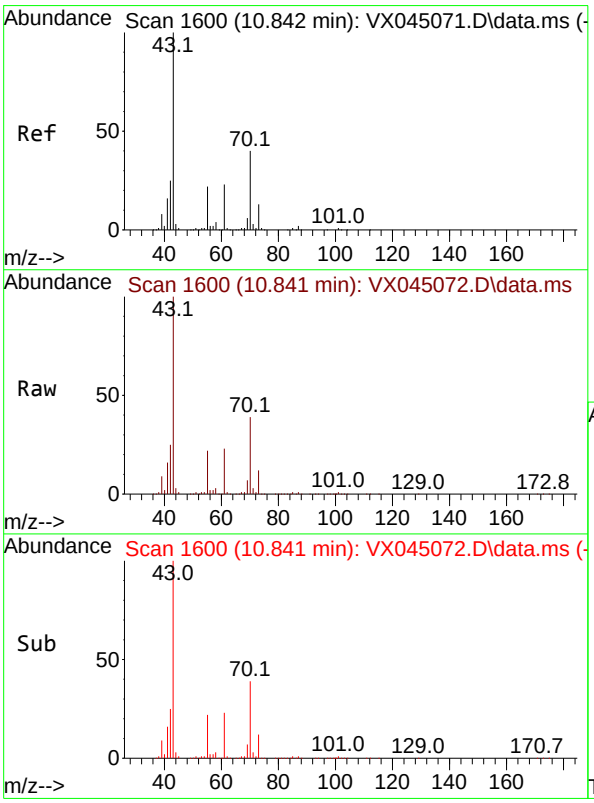
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

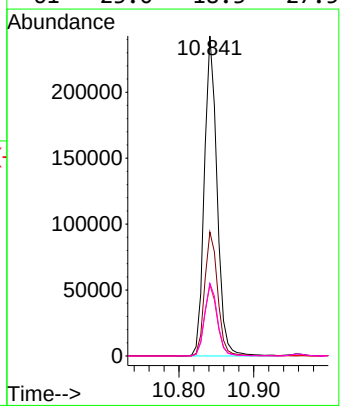
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

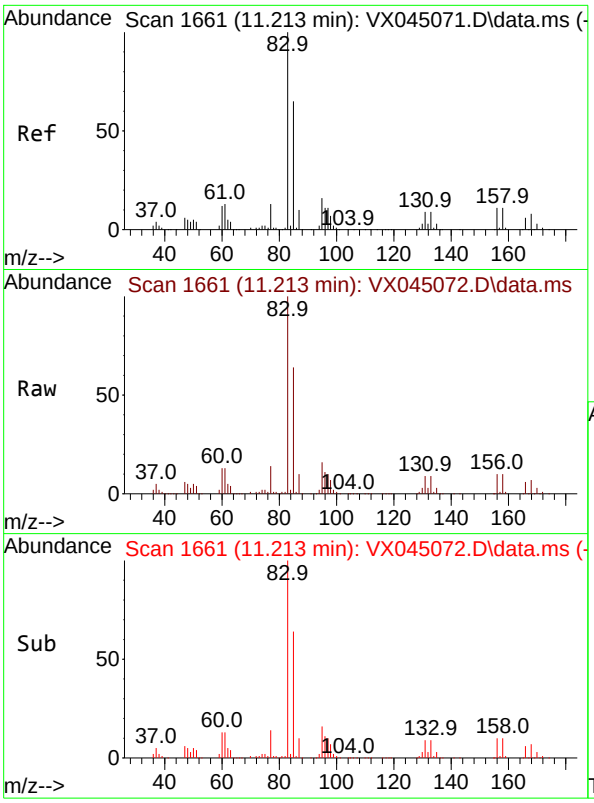


#74
N-amyl acetate
Concen: 113.277 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 287104

Ion	Ratio	Lower	Upper
43	100		
70	39.6	31.8	47.6
55	22.3	18.3	27.5
61	23.0	18.3	27.5

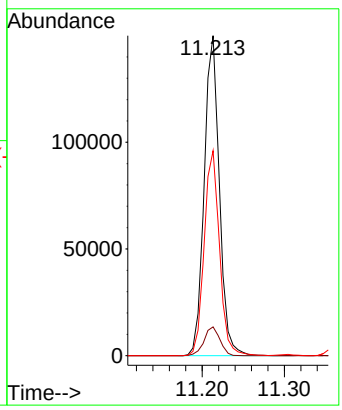




#75
1,1,2,2-Tetrachloroethane
Concen: 99.923 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 19221

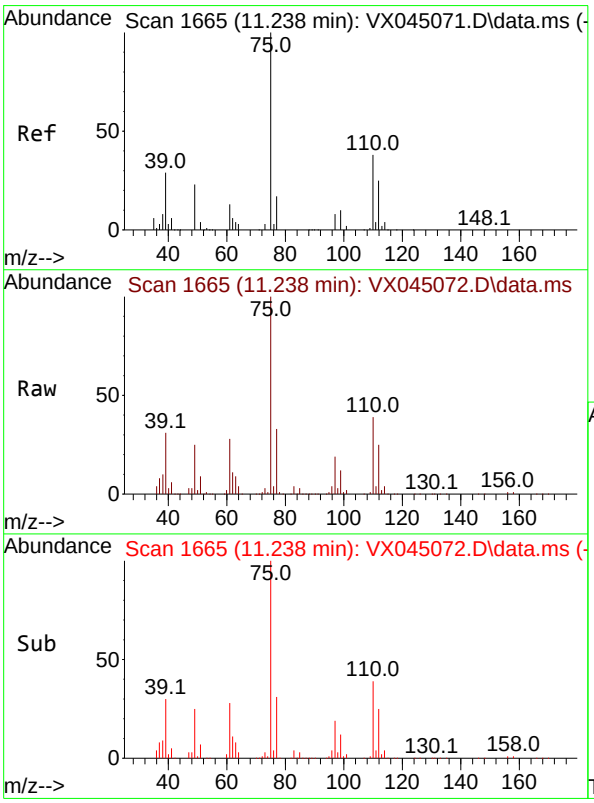
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.4
85	64.7	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

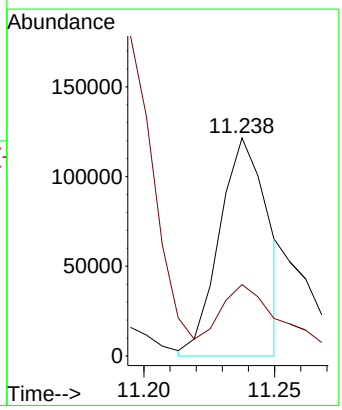
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

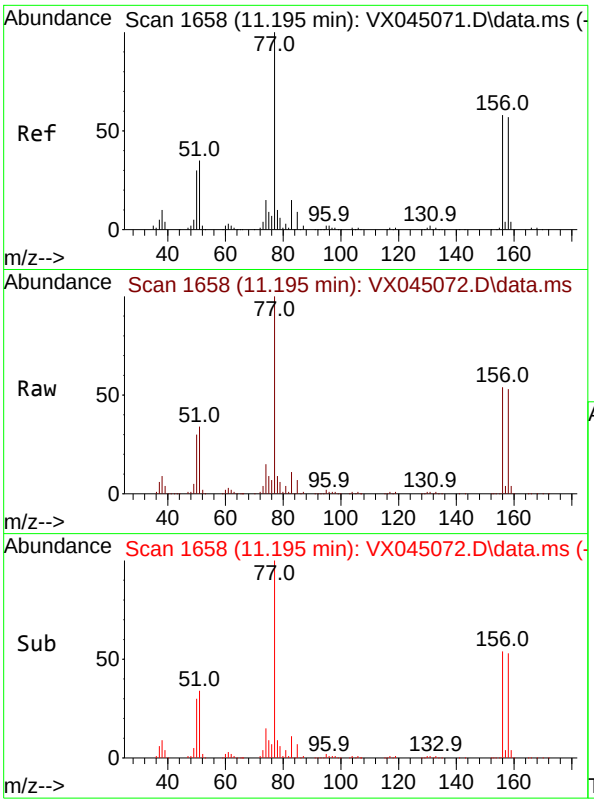


#76
1,2,3-Trichloropropane
Concen: 101.395 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 156259

Ion	Ratio	Lower	Upper
75	100		
77	42.7	20.7	62.1

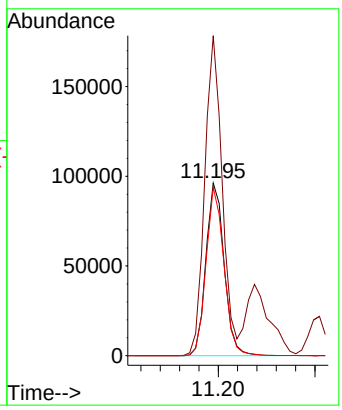




#77
Bromobenzene
Concen: 99.175 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:156 Resp: 12570

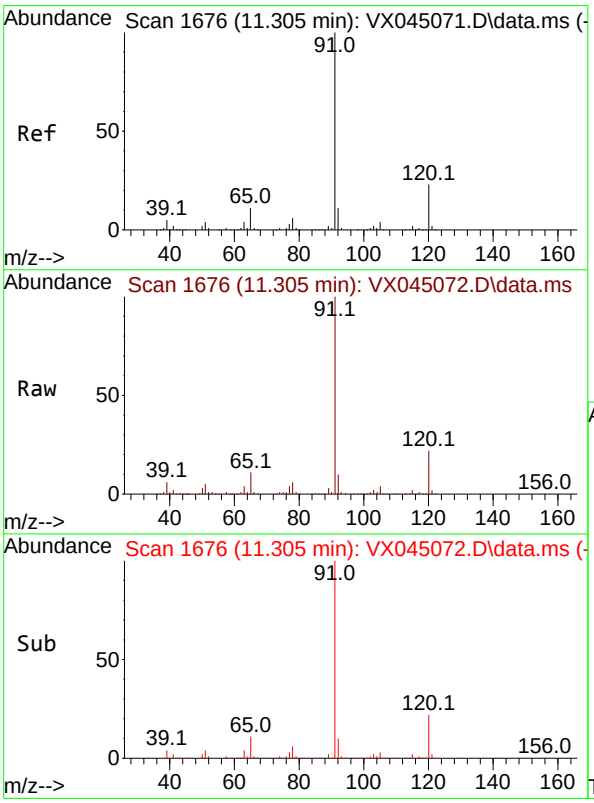
Ion	Ratio	Lower	Upper
156	100		
77	177.3	85.8	257.4
158	95.9	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

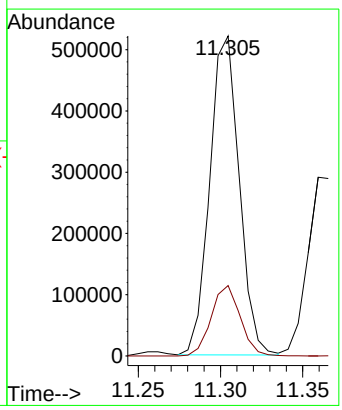
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

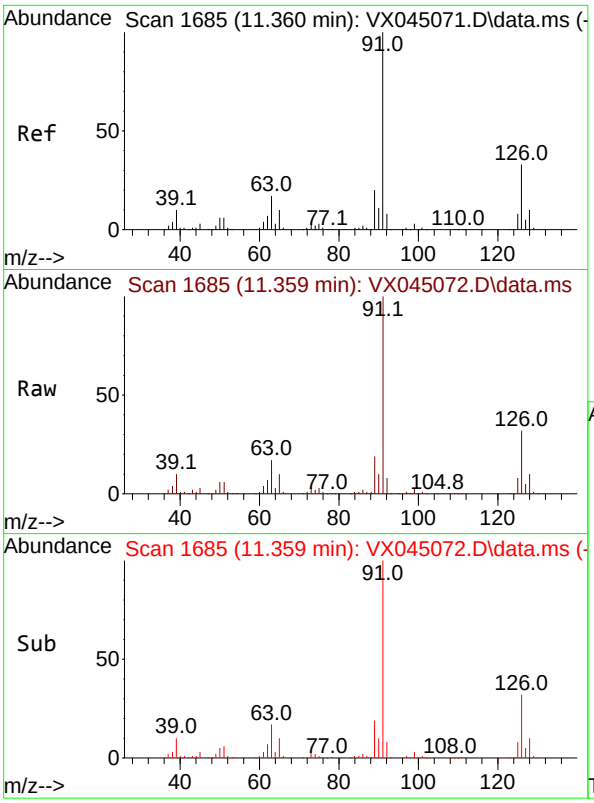


#78
n-propylbenzene
Concen: 100.758 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 648835

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6

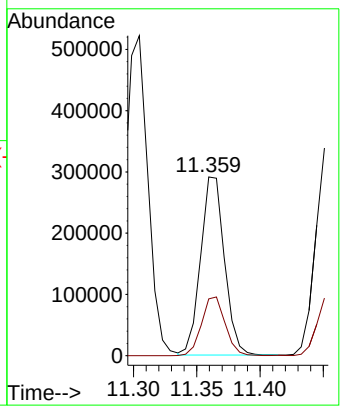




#79
2-Chlorotoluene
Concen: 96.825 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 38270

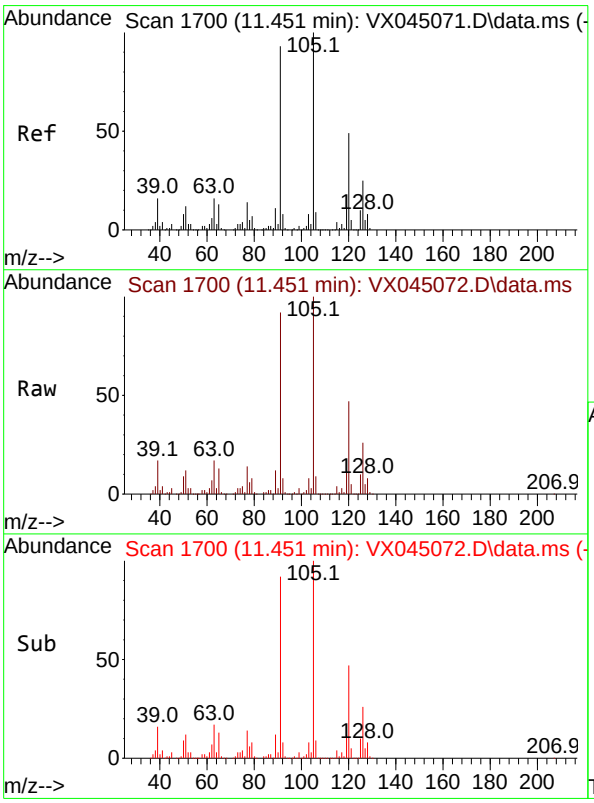
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

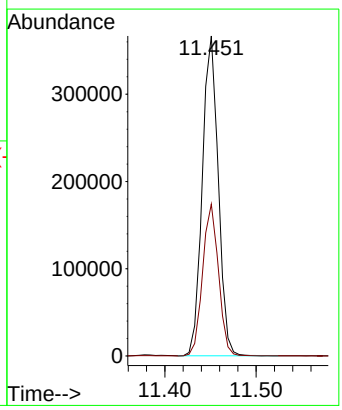
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

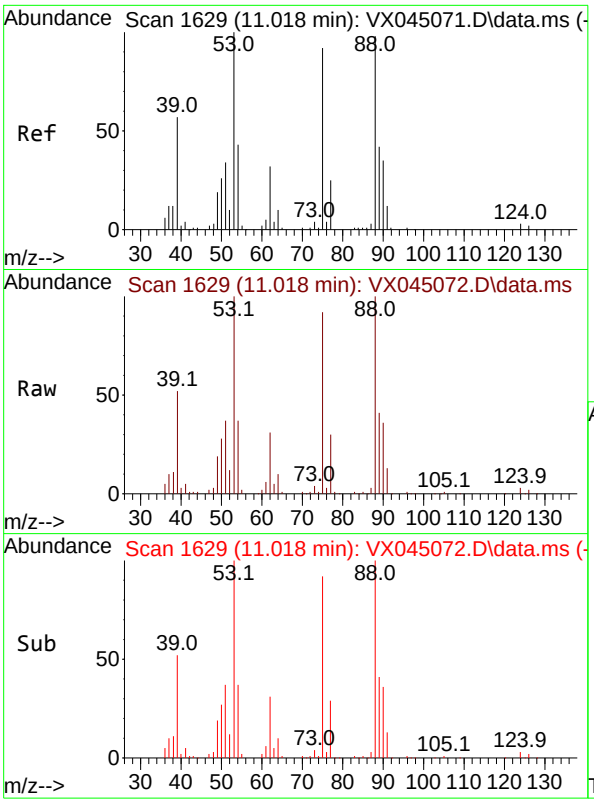


#80
1,3,5-Trimethylbenzene
Concen: 98.356 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 445466

Ion	Ratio	Lower	Upper
105	100		
120	47.1	24.1	72.2

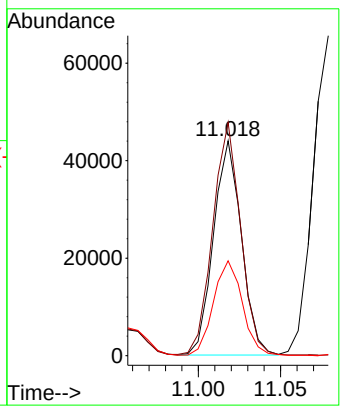




#81
trans-1,4-Dichloro-2-butene
Concen: 91.460 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 5197

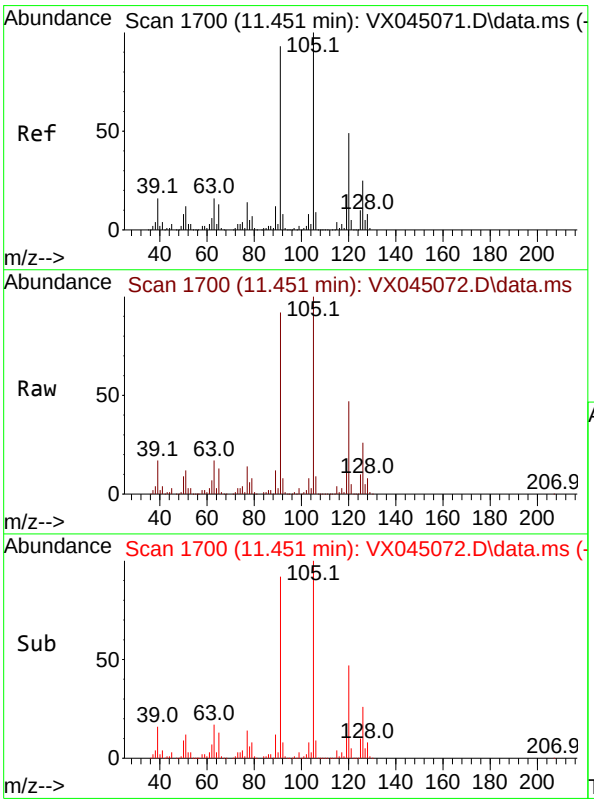
Ion	Ratio	Lower	Upper
75	100		
53	109.9	88.5	132.7
89	45.7	36.2	54.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

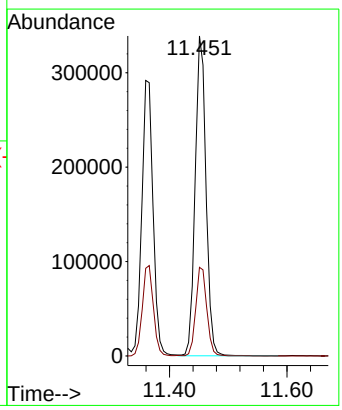
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

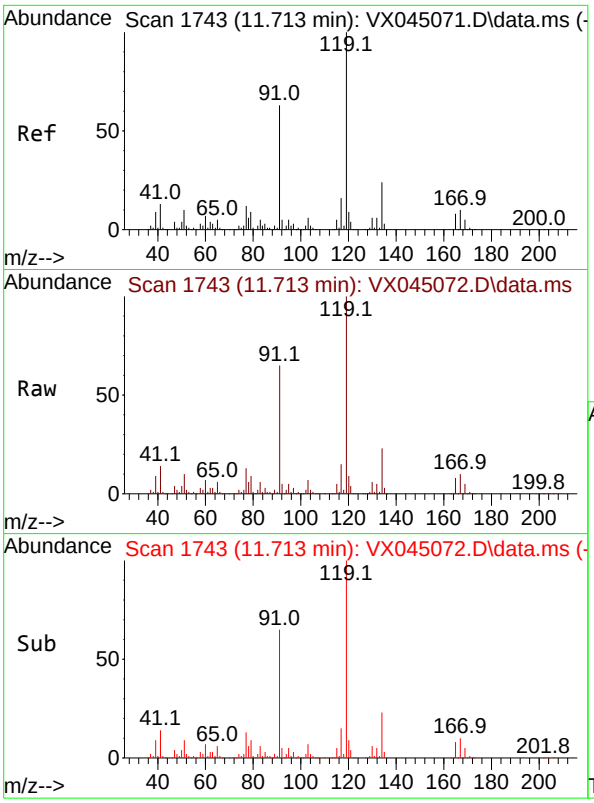


#82
4-Chlorotoluene
Concen: 99.168 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 433881

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.4

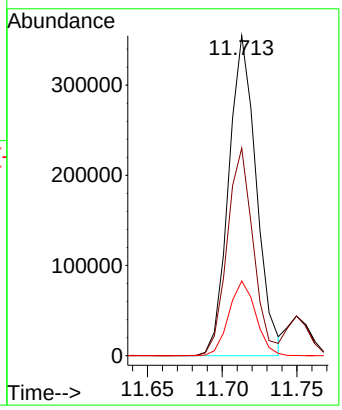




#83
tert-Butylbenzene
Concen: 99.288 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:119 Resp: 45485

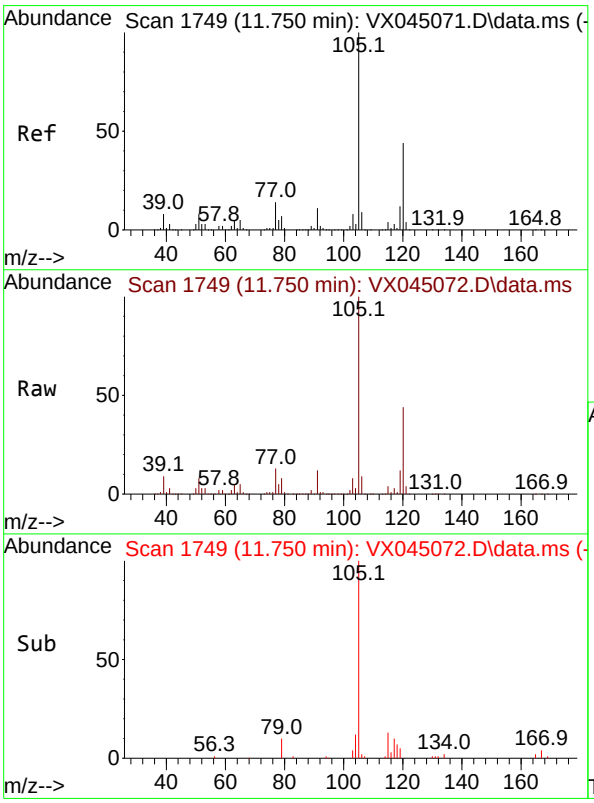
Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.7	92.1
134	22.8	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

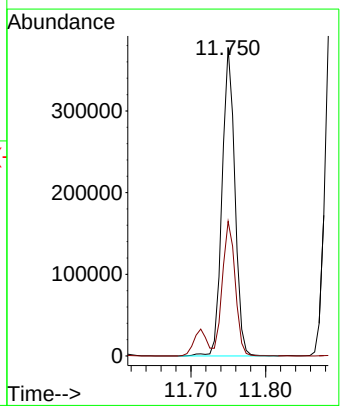
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

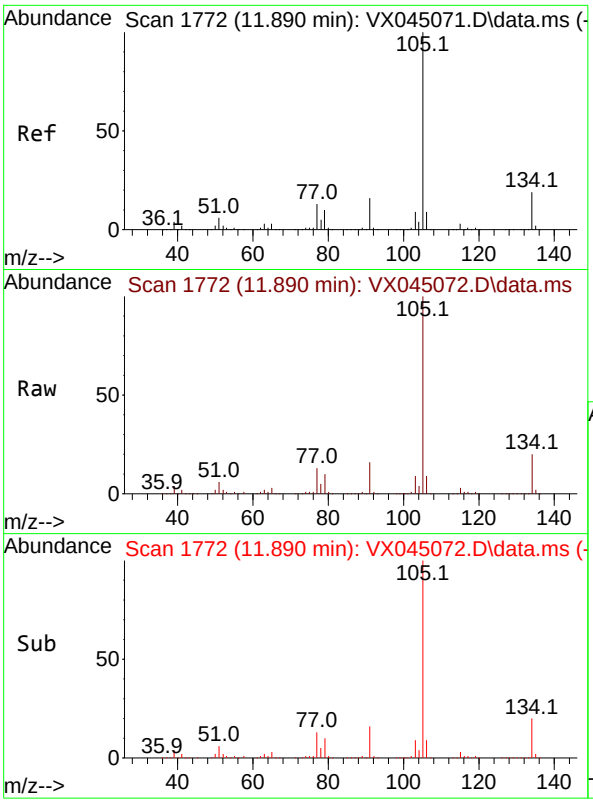


#84
1,2,4-Trimethylbenzene
Concen: 100.926 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 450108

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1





#85
sec-Butylbenzene
Concen: 100.517 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

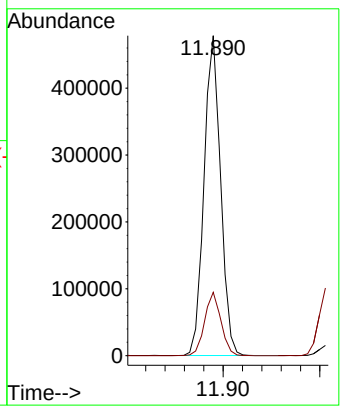
Tgt Ion:105 Resp: 57000

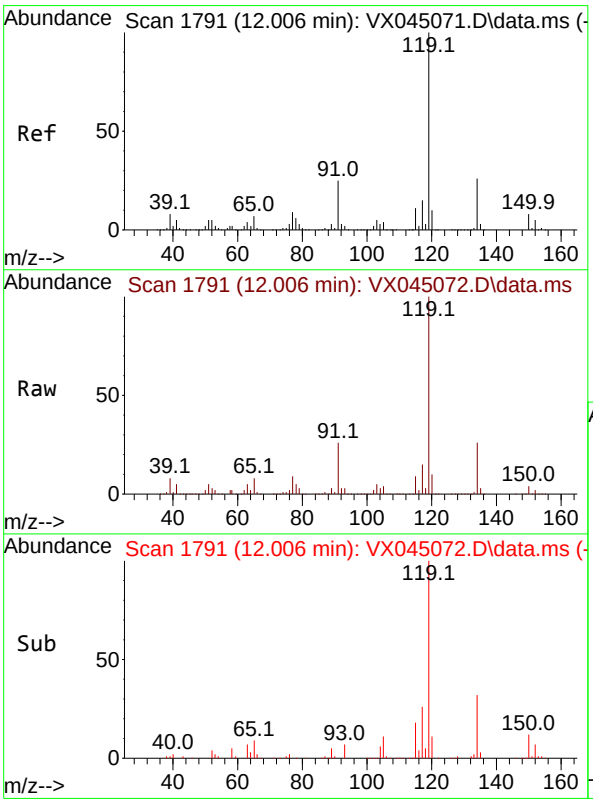
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

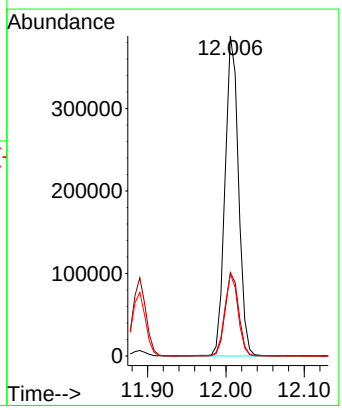


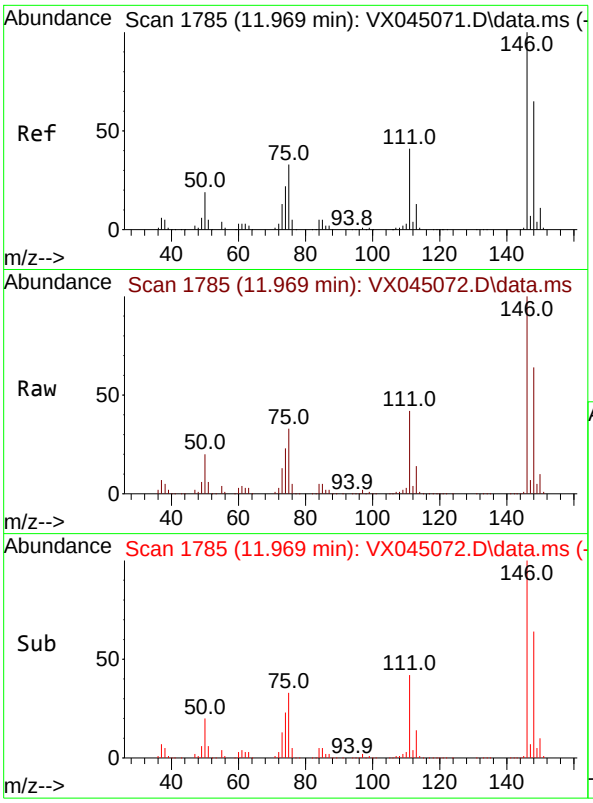


#86
p-Isopropyltoluene
Concen: 102.252 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:119 Resp: 465512

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.6
91	25.3	12.7	38.0

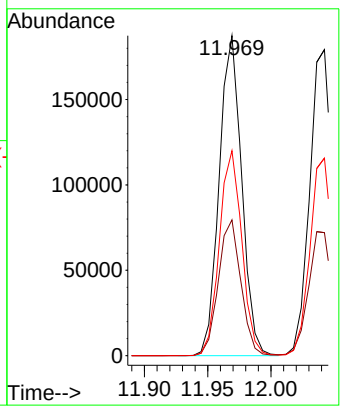




#87
1,3-Dichlorobenzene
Concen: 99.903 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:146 Resp: 23144

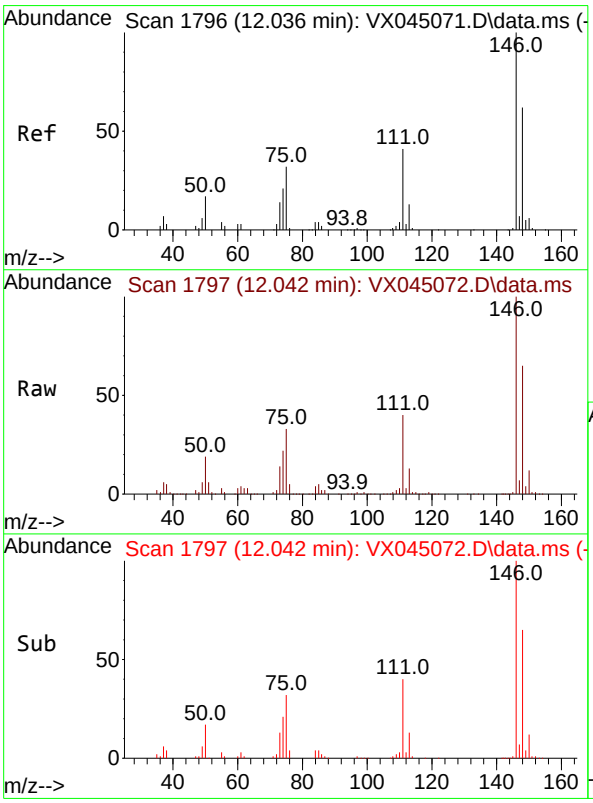
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.1	63.4
148	64.1	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

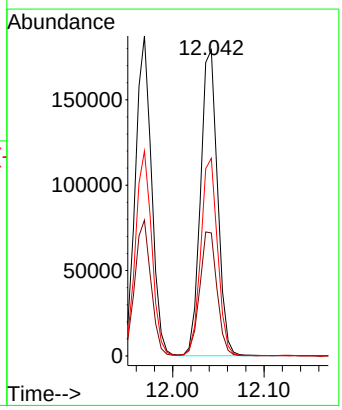
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

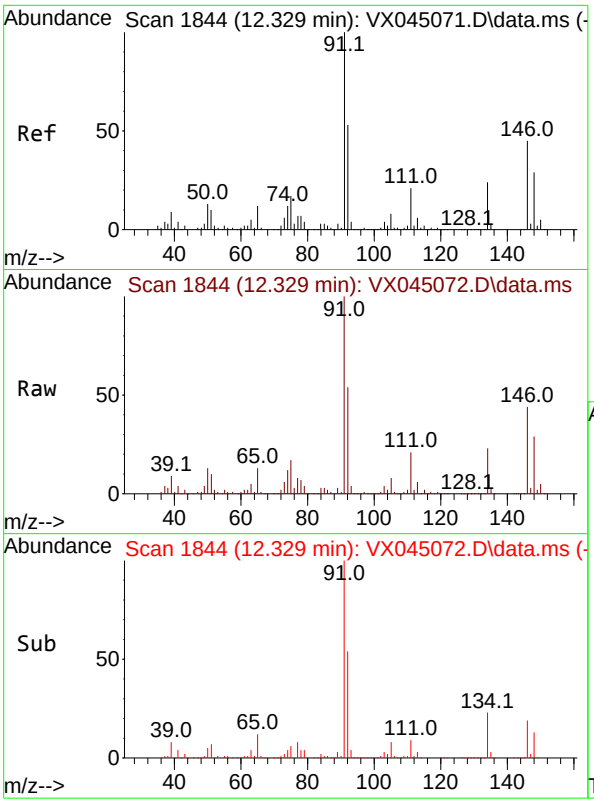


#88
1,4-Dichlorobenzene
Concen: 98.355 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:146 Resp: 230663

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.5
148	63.9	31.9	95.9

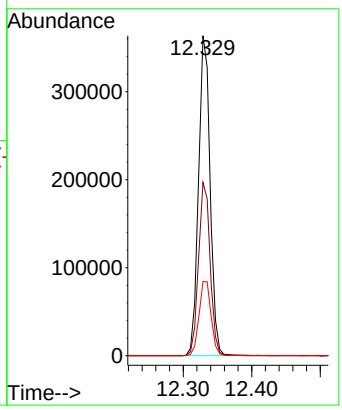




#89
n-Butylbenzene
Concen: 107.000 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 42820

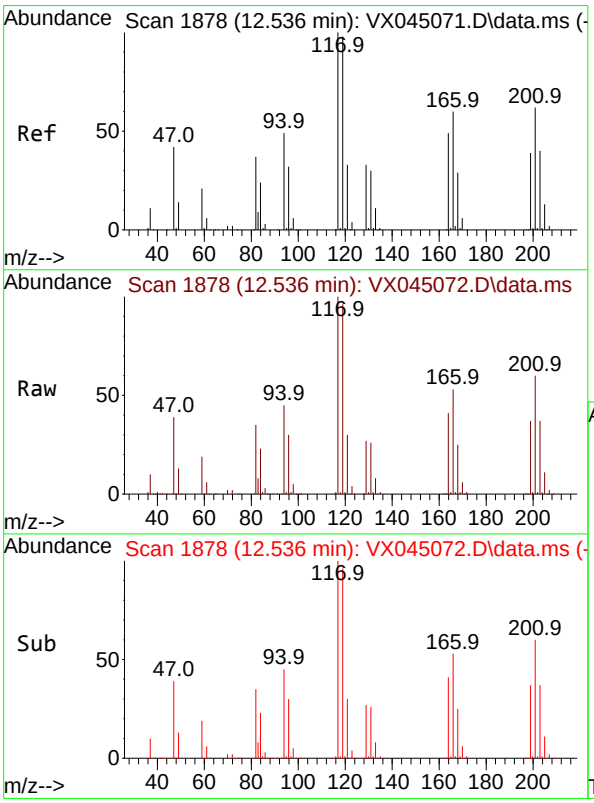
Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.7	80.0
134	24.2	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

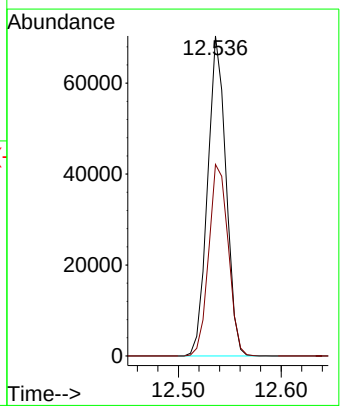
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

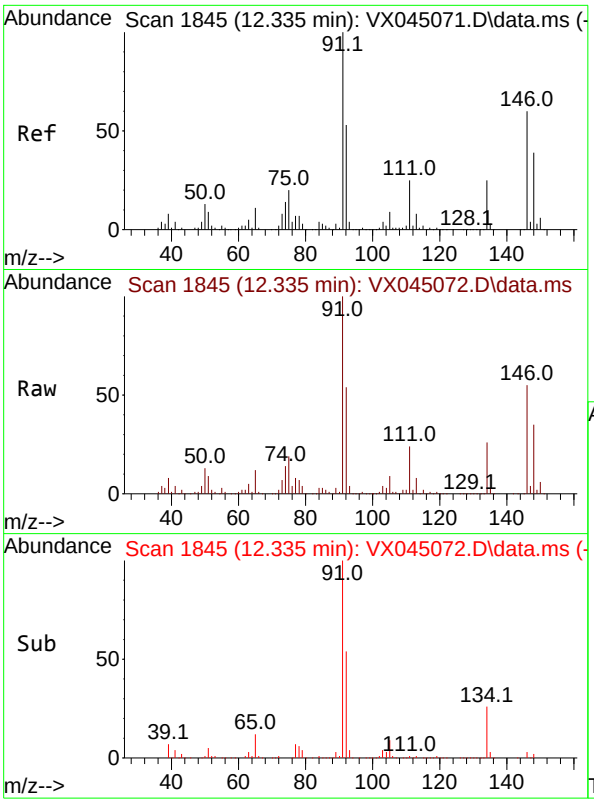


#90
Hexachloroethane
Concen: 102.980 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 87448

Ion	Ratio	Lower	Upper
117	100		
201	63.4	31.9	95.9

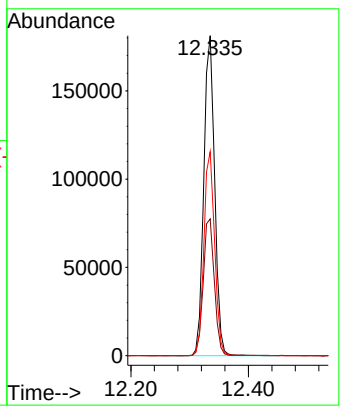




#91
1,2-Dichlorobenzene
Concen: 102.254 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:146 Resp: 23312

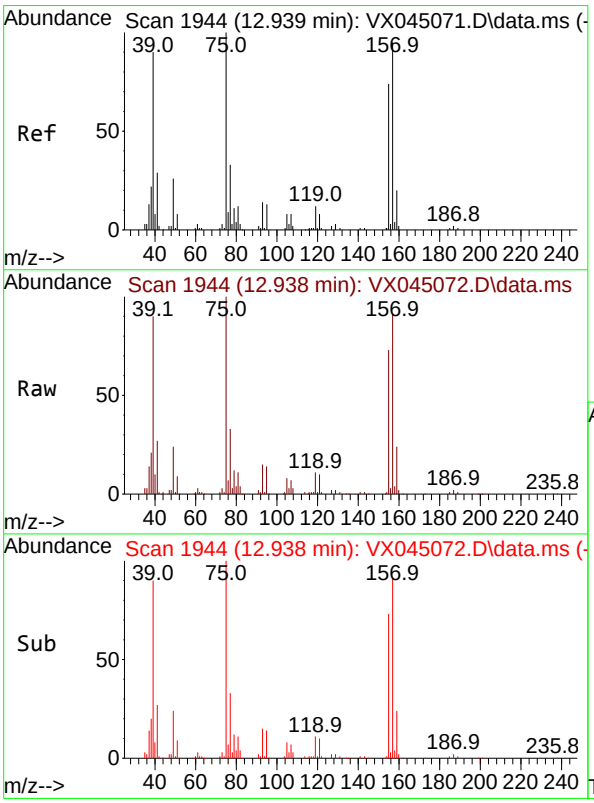
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	65.0
148	63.2	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

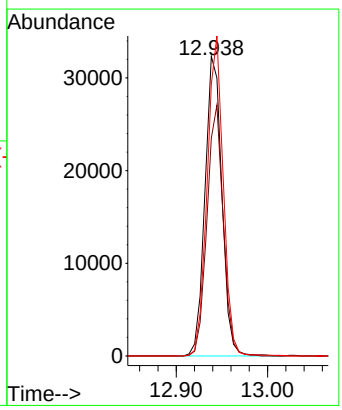
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

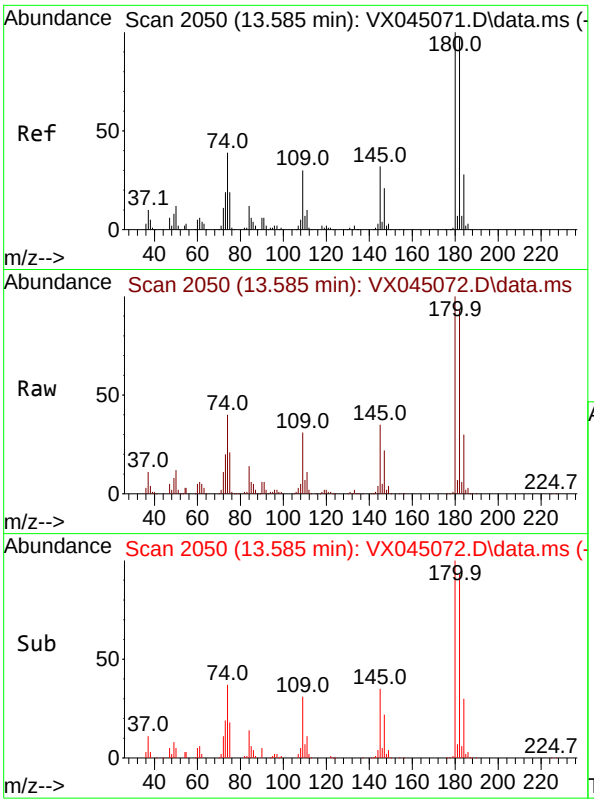


#92
1,2-Dibromo-3-Chloropropane
Concen: 116.296 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 41402

Ion	Ratio	Lower	Upper
75	100		
155	80.6	39.6	118.7
157	101.8	51.1	153.4

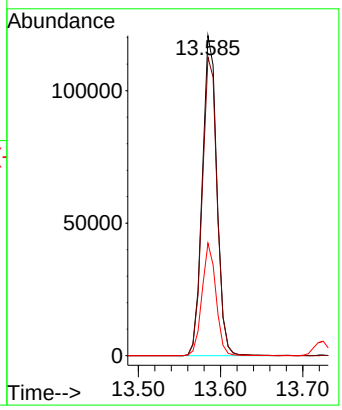




#93
1,2,4-Trichlorobenzene
Concen: 107.648 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:180 Resp: 14836

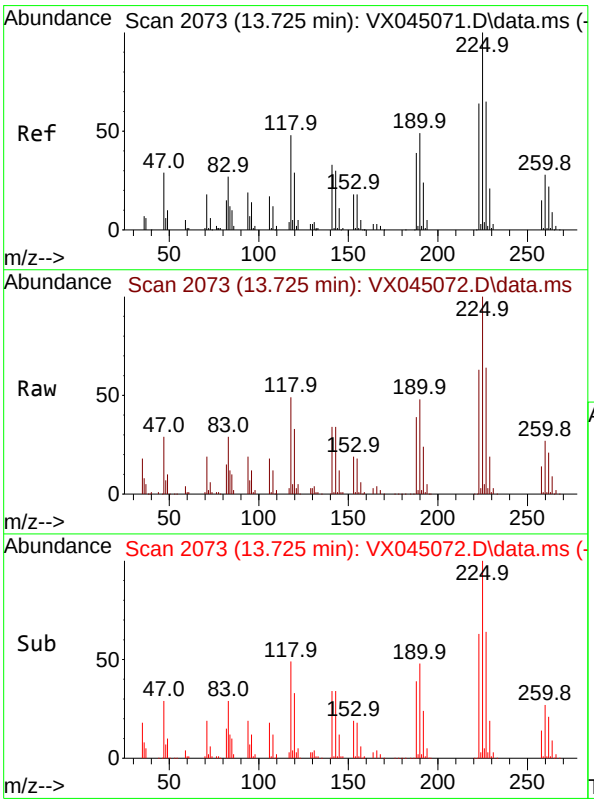
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.3	141.9
145	33.6	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

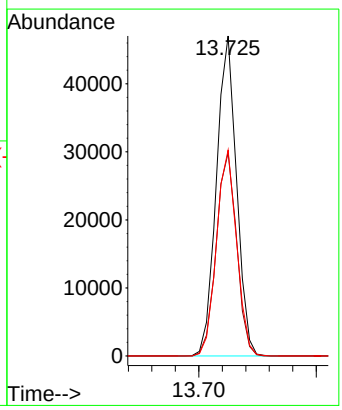
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

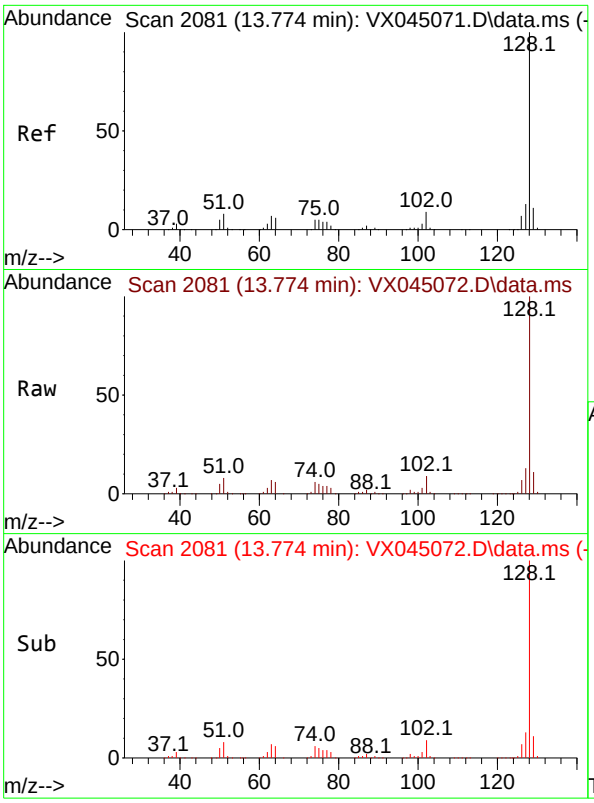


#94
Hexachlorobutadiene
Concen: 102.019 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:225 Resp: 56065

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.9	95.7
227	64.4	31.4	94.0

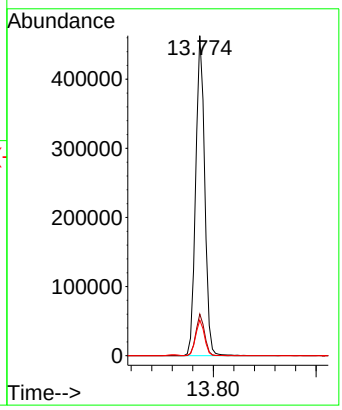




#95
Naphthalene
Concen: 112.593 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:128 Resp: 56525

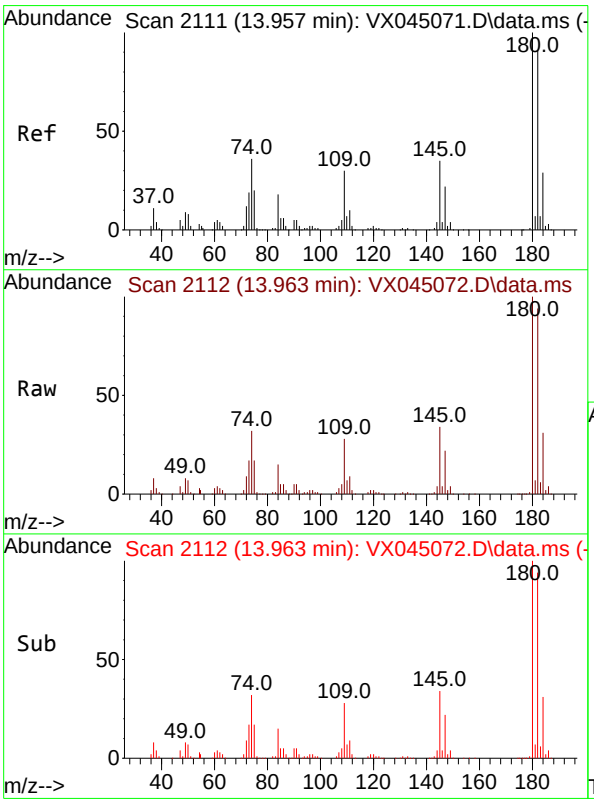
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

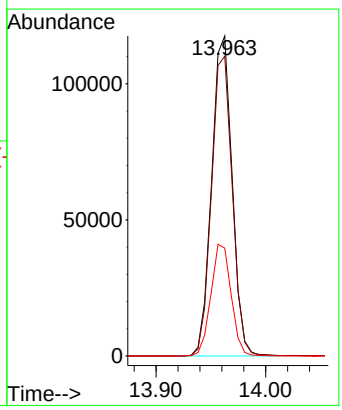
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 109.554 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:180 Resp: 152970

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.6
145	34.5	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	95754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	176991	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	150547	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67685	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	234624	165.865	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 331.740%#			
35) Dibromofluoromethane	5.379	113	179722	155.359	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 310.720%#			
50) Toluene-d8	8.647	98	638979	147.538	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.080%#			
62) 4-Bromofluorobenzene	11.079	95	223346	154.420	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 308.840%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	174297	132.067	ug/l	96
3) Chloromethane	1.307	50	213704	133.072	ug/l	97
4) Vinyl Chloride	1.374	62	217672	138.774	ug/l	97
5) Bromomethane	1.593	94	83547	170.379	ug/l	98
6) Chloroethane	1.660	64	82101	137.509	ug/l	95
7) Trichlorofluoromethane	1.861	101	272235	135.494	ug/l	98
8) Diethyl Ether	2.136	74	110005	150.660	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	161825	134.877	ug/l	99
10) Methyl Iodide	2.441	142	212355	138.059	ug/l	99
11) Tert butyl alcohol	3.014	59	195415	754.176	ug/l	97
12) 1,1-Dichloroethene	2.300	96	173271	140.655	ug/l	96
13) Acrolein	2.239	56	263999	940.846	ug/l	98
14) Allyl chloride	2.654	41	308018	139.077	ug/l	98
15) Acrylonitrile	3.069	53	573208	813.990	ug/l	99
16) Acetone	2.392	43	511828	879.387	ug/l	100
17) Carbon Disulfide	2.495	76	487720	145.511	ug/l	98
18) Methyl Acetate	2.709	43	258303	147.347	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	619778	157.358	ug/l	99
20) Methylene Chloride	2.782	84	202913	147.198	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	176924	146.027	ug/l	98
22) Diisopropyl ether	3.764	45	662828	156.526	ug/l	98
23) Vinyl Acetate	3.721	43	2943150	846.586	ug/l	99
24) 1,1-Dichloroethane	3.605	63	363081	153.453	ug/l	99
25) 2-Butanone	4.568	43	818497	872.239	ug/l	99
26) 2,2-Dichloropropane	4.465	77	179826	102.231	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	220826	151.205	ug/l	98
28) Bromochloromethane	4.891	49	171273	150.105	ug/l	100
29) Tetrahydrofuran	5.007	42	528574	850.174	ug/l	99
30) Chloroform	5.093	83	351934	152.067	ug/l	97
31) Cyclohexane	5.458	56	302215	139.174	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	294434	151.120	ug/l	100
36) 1,1-Dichloropropene	5.684	75	241405	145.112	ug/l	100
37) Ethyl Acetate	4.721	43	316250	167.067	ug/l	99
38) Carbon Tetrachloride	5.672	117	245917	150.363	ug/l	99
39) Methylcyclohexane	7.373	83	292216	137.544	ug/l	97
40) Benzene	6.031	78	755854	145.368	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	175023	173.088	ug/l		99
42) 1,2-Dichloroethane	6.080	62	276129	163.872	ug/l		99
43) Isopropyl Acetate	6.342	43	511643	169.804	ug/l		99
44) Trichloroethene	7.123	130	178483	150.181	ug/l		97
45) 1,2-Dichloropropane	7.428	63	198135	153.334	ug/l		100
46) Dibromomethane	7.580	93	142119	157.443	ug/l		99
47) Bromodichloromethane	7.818	83	280255	160.492	ug/l		99
48) Methyl methacrylate	7.696	41	252275	176.370	ug/l		99
49) 1,4-Dioxane	7.665	88	96268	3166.423	ug/l		99
51) 4-Methyl-2-Pentanone	8.580	43	1536157	832.051	ug/l		99
52) Toluene	8.714	92	448664	145.321	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	266444	154.373	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	293521	152.117	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	178217	149.046	ug/l		98
56) Ethyl methacrylate	9.116	69	310992	162.631	ug/l		98
57) 1,3-Dichloropropane	9.305	76	312196	149.699	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	717328	764.019	ug/l		99
59) 2-Hexanone	9.433	43	1156653	868.492	ug/l		100
60) Dibromochloromethane	9.519	129	201906	158.276	ug/l		99
61) 1,2-Dibromoethane	9.610	107	185828	154.074	ug/l		100
64) Tetrachloroethene	9.269	164	139536	145.906	ug/l		94
65) Chlorobenzene	10.079	112	472117	146.096	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	163370	156.845	ug/l		97
67) Ethyl Benzene	10.189	91	852575	149.191	ug/l		99
68) m/p-Xylenes	10.299	106	607523	288.655	ug/l		97
69) o-Xylene	10.640	106	302495	143.259	ug/l		99
70) Styrene	10.653	104	512379	150.979	ug/l		99
71) Bromoform	10.799	173	135388	174.808	ug/l	#	99
73) Isopropylbenzene	10.963	105	780706	142.719	ug/l		99
74) N-amyl acetate	10.842	43	429686	173.042	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	283558	150.458	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	229435m	151.960	ug/l		
77) Bromobenzene	11.195	156	180997	145.760	ug/l		96
78) n-propylbenzene	11.305	91	923593	146.395	ug/l		99
79) 2-Chlorotoluene	11.366	91	548695	141.695	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	635832	143.293	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	82267	147.761	ug/l		98
82) 4-Chlorotoluene	11.451	91	627816	146.464	ug/l		99
83) tert-Butylbenzene	11.713	119	641713	142.974	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	647248	148.135	ug/l		100
85) sec-Butylbenzene	11.890	105	807713	145.383	ug/l		100
86) p-Isopropyltoluene	12.006	119	664916	149.075	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	334751	147.488	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	333594	145.189	ug/l		99
89) n-Butylbenzene	12.329	91	620757	158.324	ug/l		99
90) Hexachloroethane	12.536	117	128582	154.554	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	329318	147.436	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64958	186.240	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	219313	162.416	ug/l		99
94) Hexachlorobutadiene	13.725	225	80241	149.034	ug/l		99
95) Naphthalene	13.774	128	828949	168.538	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	222608	162.727	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

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

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

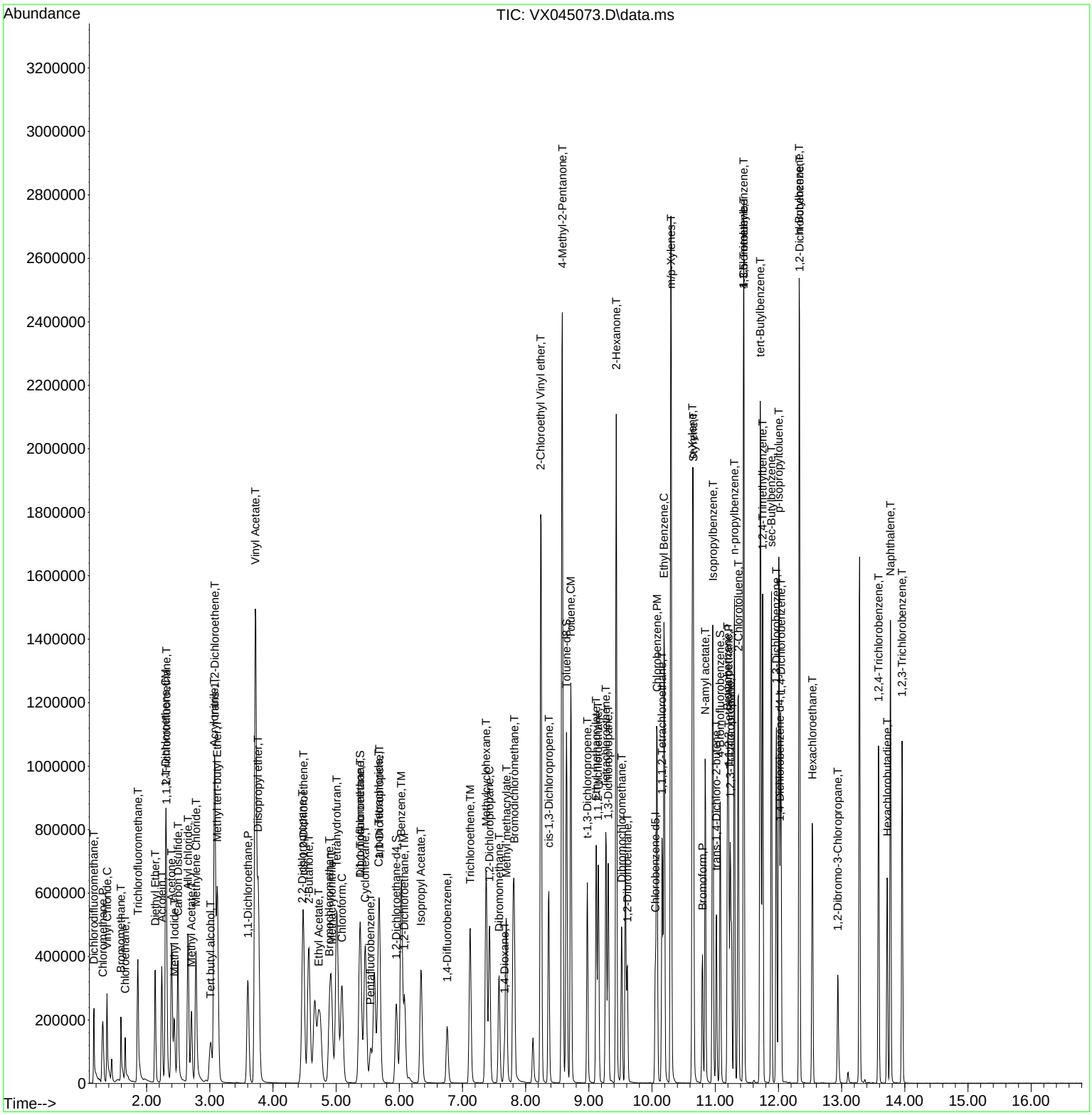
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

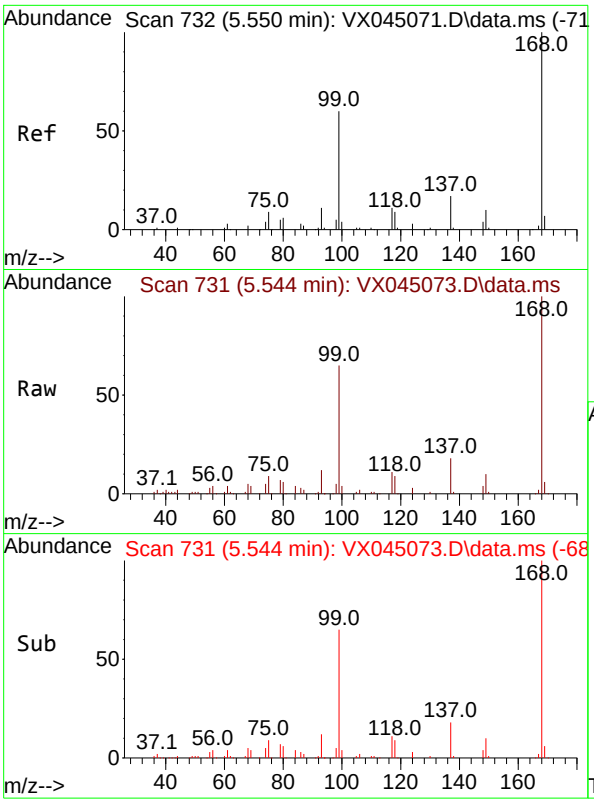
Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

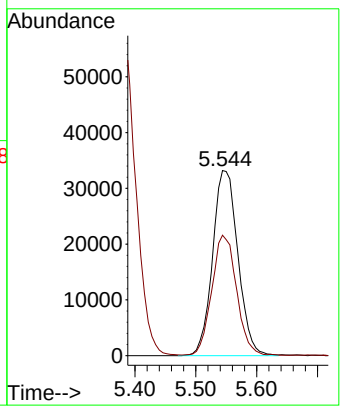




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:168 Resp: 9575

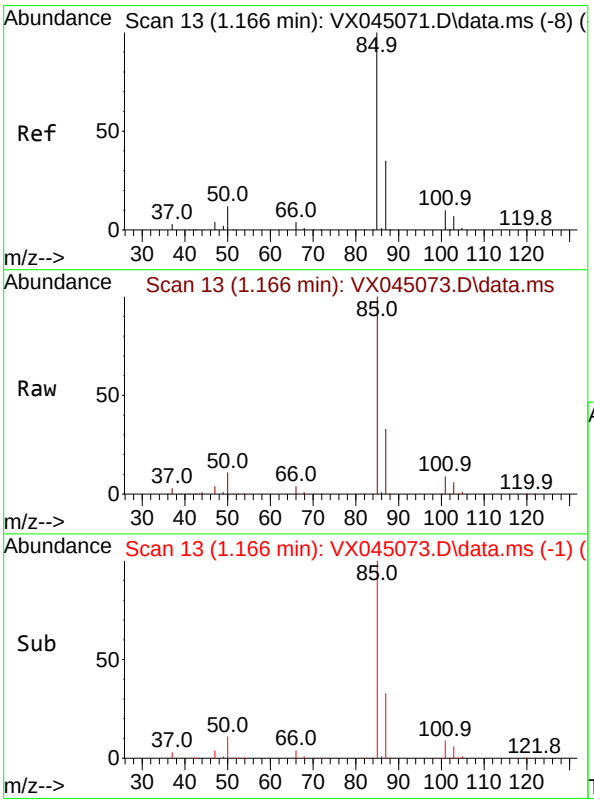
Ion	Ratio	Lower	Upper
168	100		
99	64.8	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

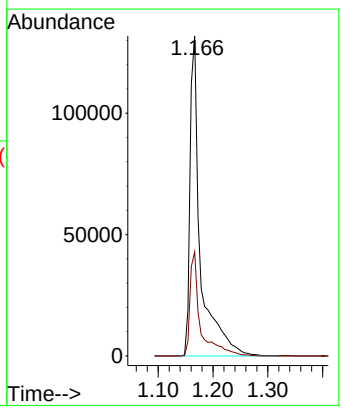
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

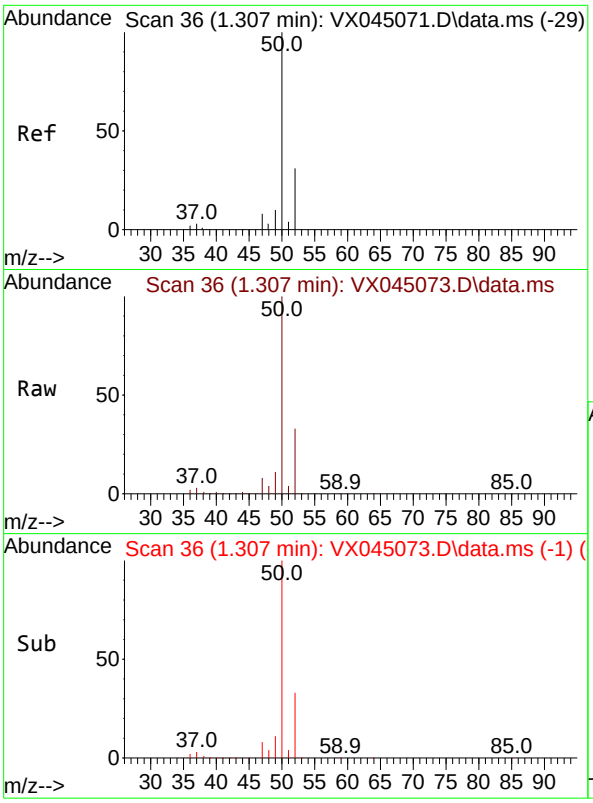


#2
Dichlorodifluoromethane
Concen: 132.067 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 85 Resp: 174297

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.4	52.3

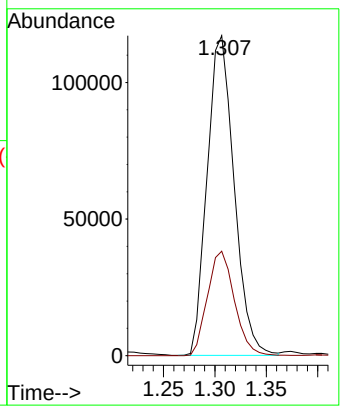




#3
Chloromethane
Concen: 133.072 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 50 Resp: 21370

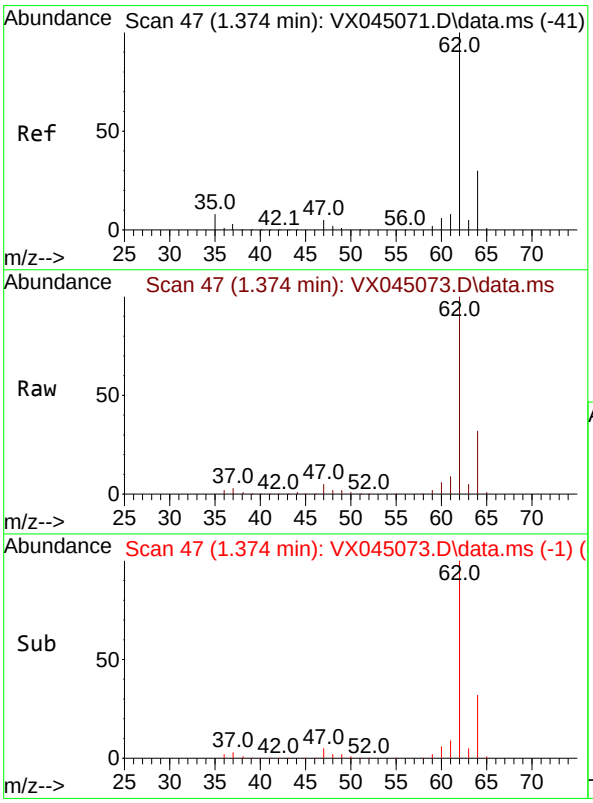
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

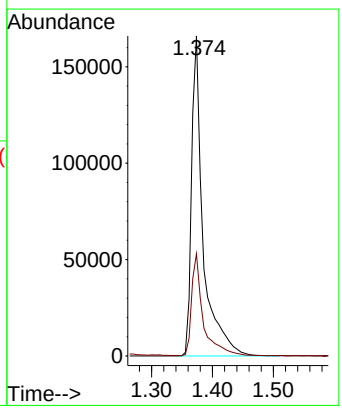
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

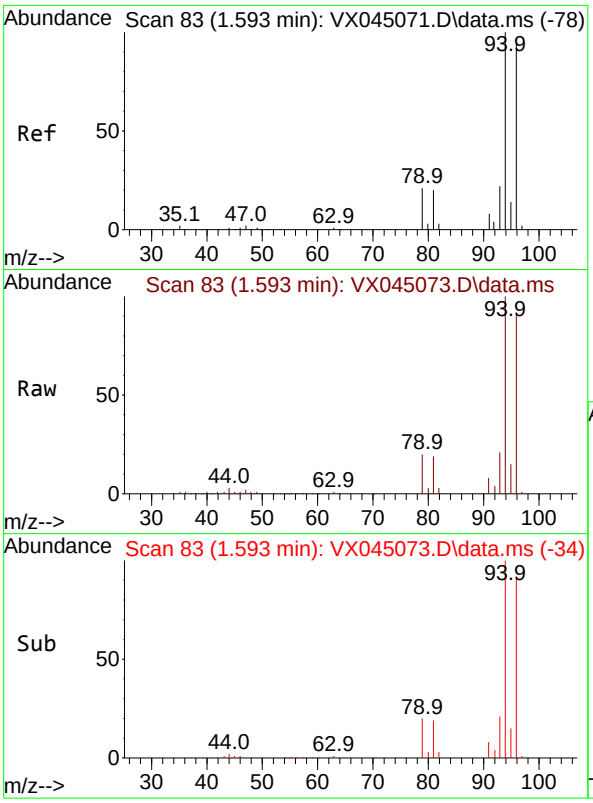


#4
Vinyl Chloride
Concen: 138.774 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 217672

Ion	Ratio	Lower	Upper
62	100		
64	31.8	24.3	36.5

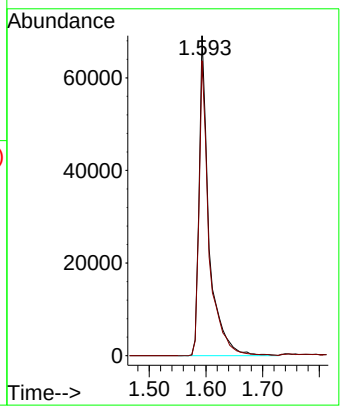




#5
Bromomethane
Concen: 170.379 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 94 Resp: 8354

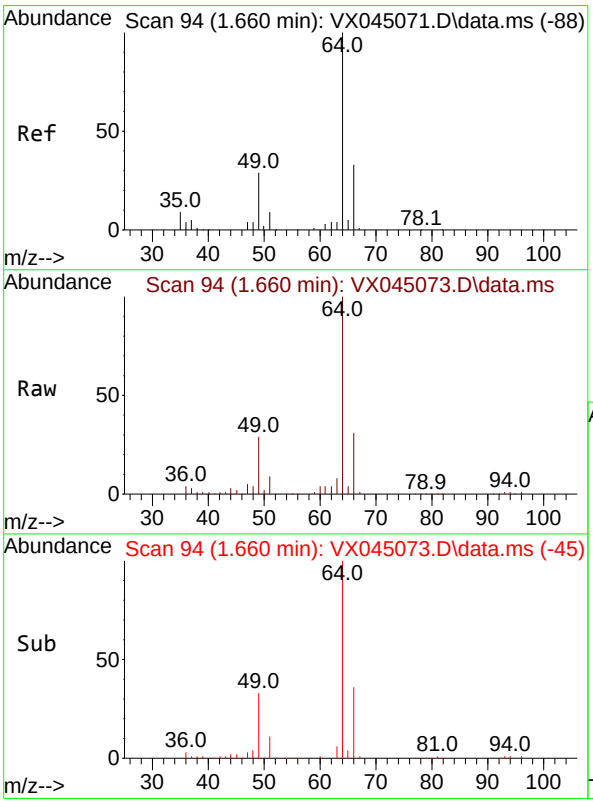
Ion	Ratio	Lower	Upper
94	100		
96	92.2	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

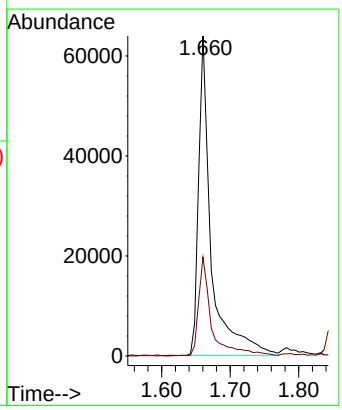
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

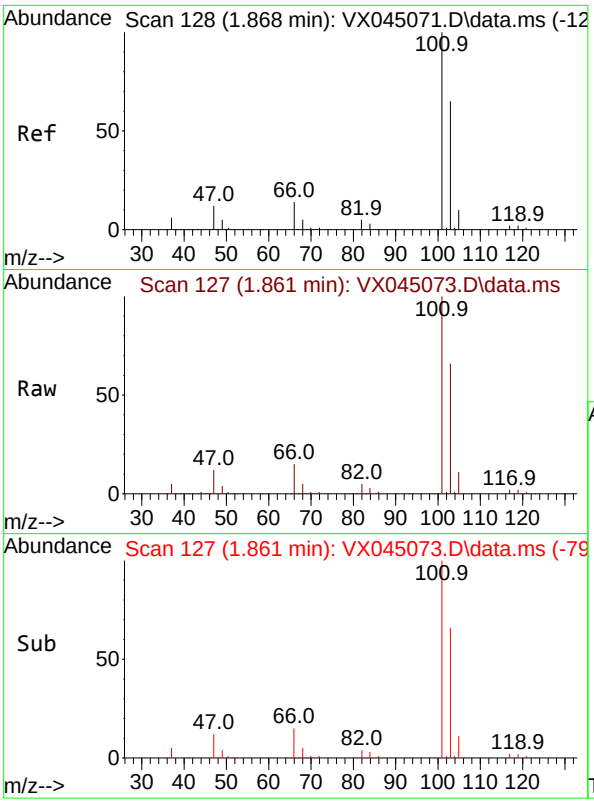


#6
Chloroethane
Concen: 137.509 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 64 Resp: 82101

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.7	40.1

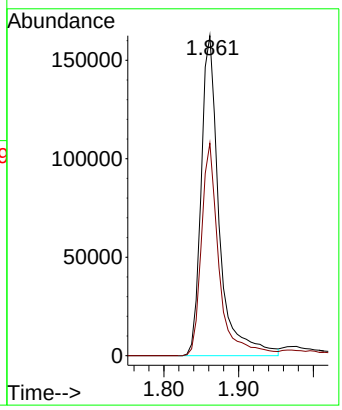




#7
Trichlorofluoromethane
Concen: 135.494 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:101 Resp: 27223

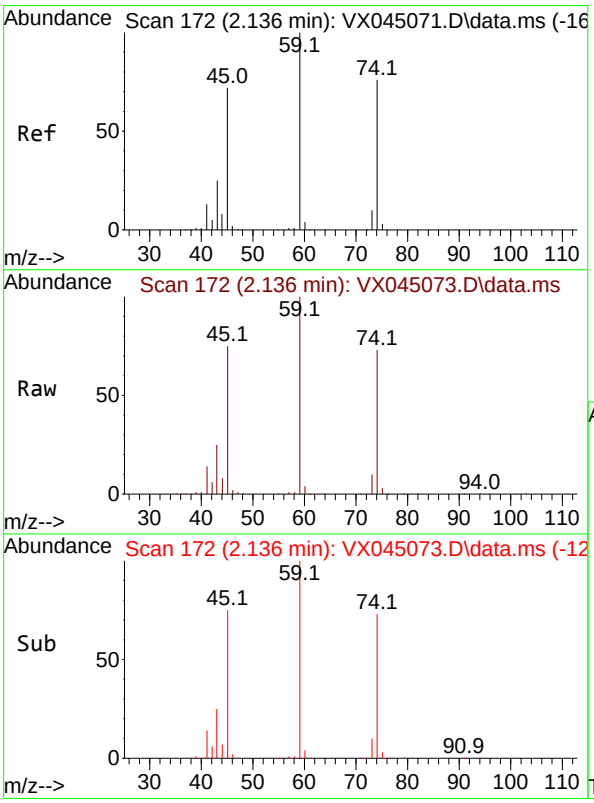
Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

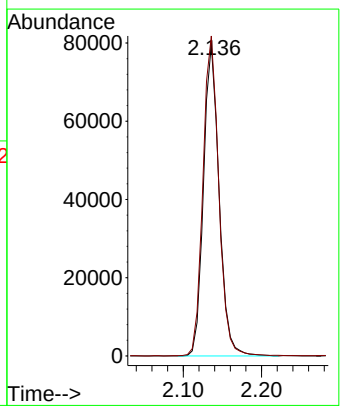
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

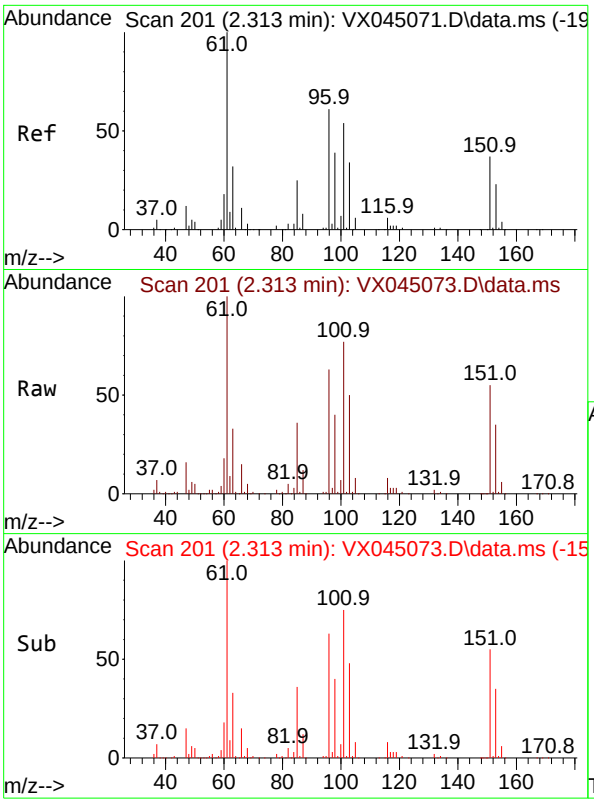


#8
Diethyl Ether
Concen: 150.660 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 74 Resp: 110005

Ion	Ratio	Lower	Upper
74	100		
45	104.9	51.5	154.5

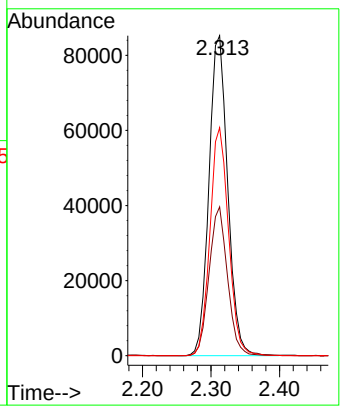




#9
1,1,2-Trichlorotrifluoroethane
Concen: 134.877 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:101 Resp: 16182

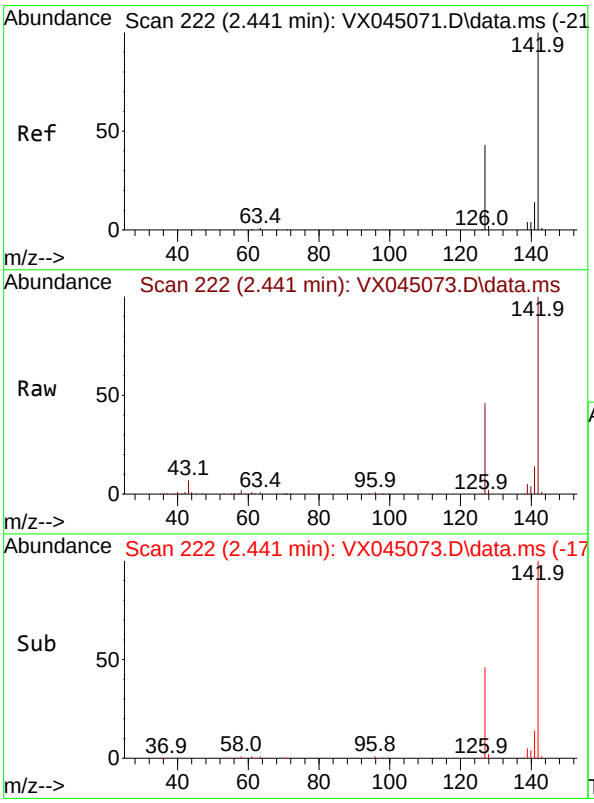
Ion	Ratio	Lower	Upper
101	100		
85	45.8	36.2	54.4
151	70.8	56.4	84.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

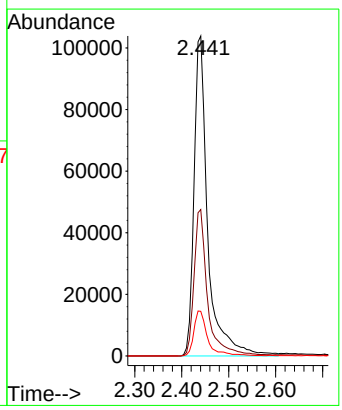
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

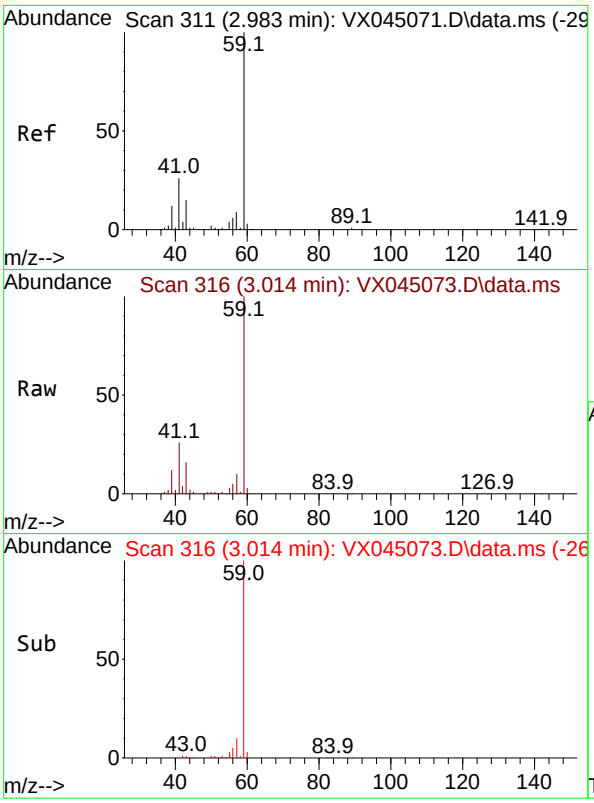


#10
Methyl Iodide
Concen: 138.059 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:142 Resp: 212355

Ion	Ratio	Lower	Upper
142	100		
127	45.2	35.4	53.2
141	14.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 754.176 ug/l
RT: 3.014 min Scan# 3
Delta R.T. 0.030 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

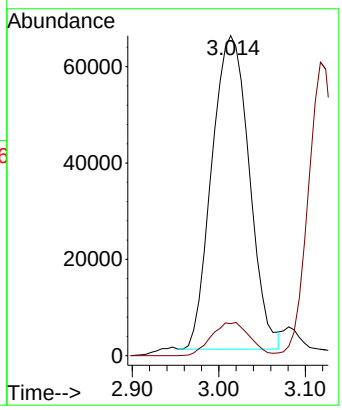
Tgt Ion: 59 Resp: 19541

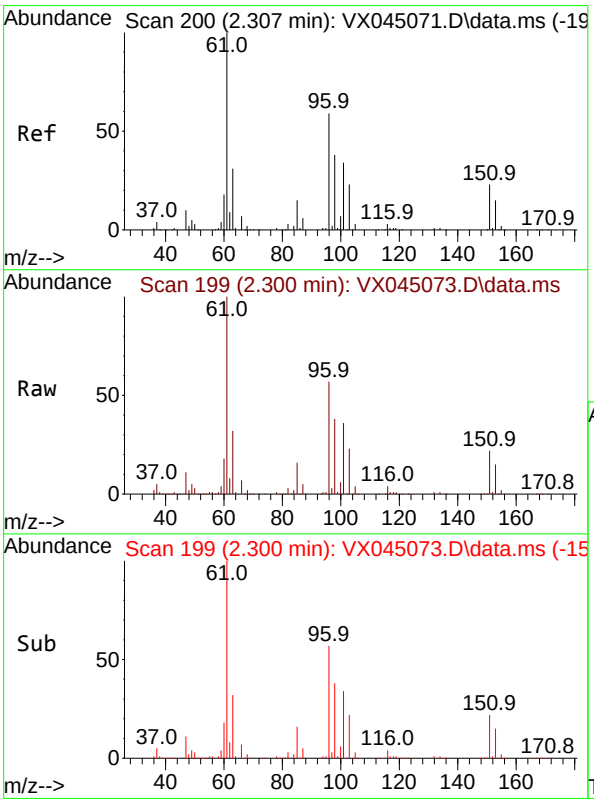
Ion	Ratio	Lower	Upper
59	100		
57	10.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

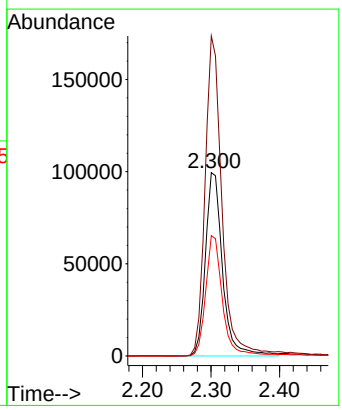


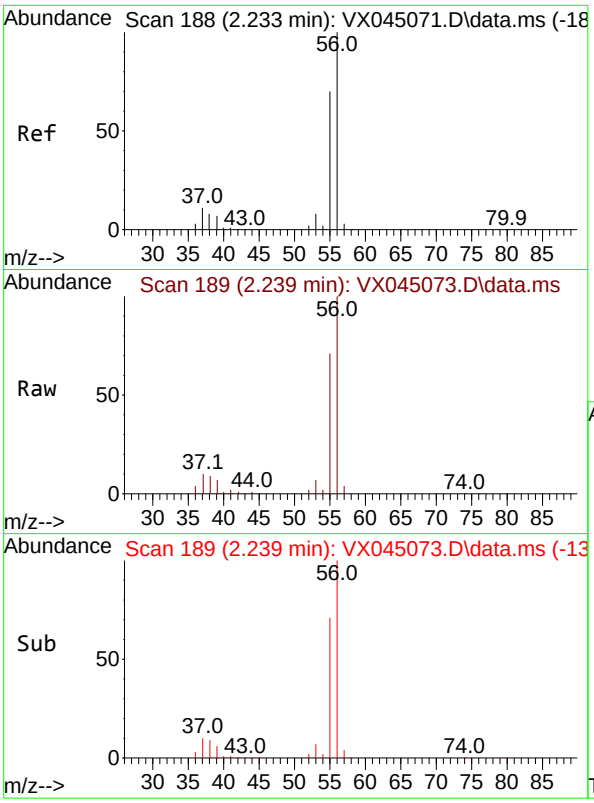


#12
1,1-Dichloroethene
Concen: 140.655 ug/l
RT: 2.300 min Scan# 199
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 96 Resp: 173271

Ion	Ratio	Lower	Upper
96	100		
61	174.5	134.6	202.0
98	65.6	51.0	76.6

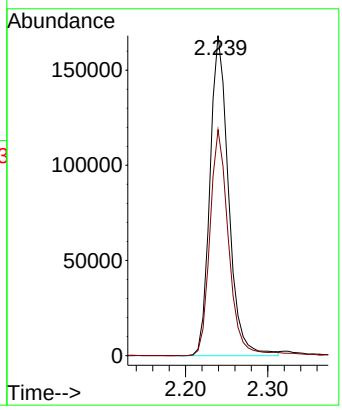




#13
Acrolein
Concen: 940.846 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 56 Resp: 26399

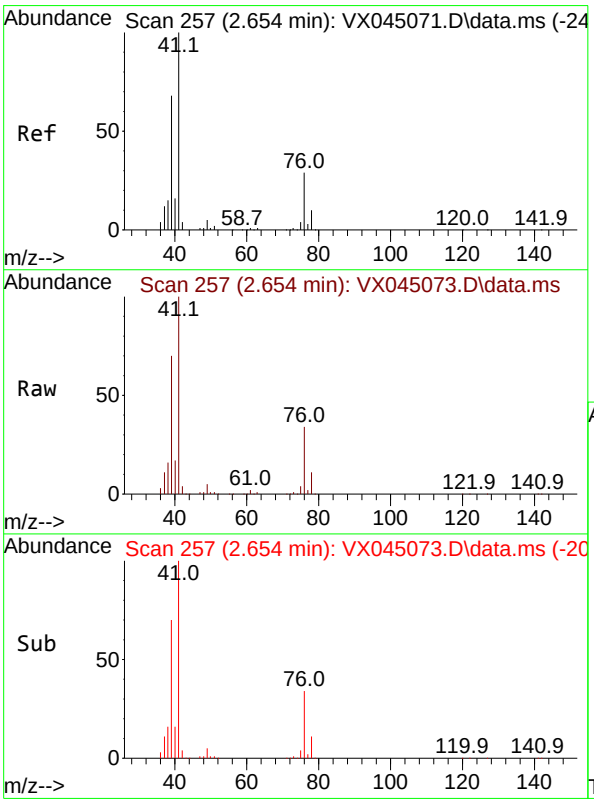
Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

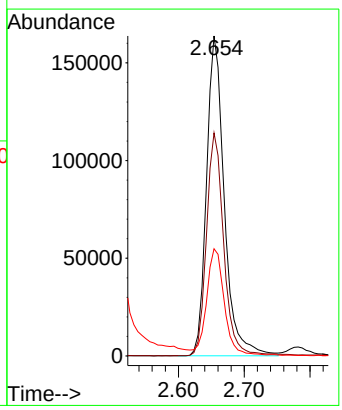
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

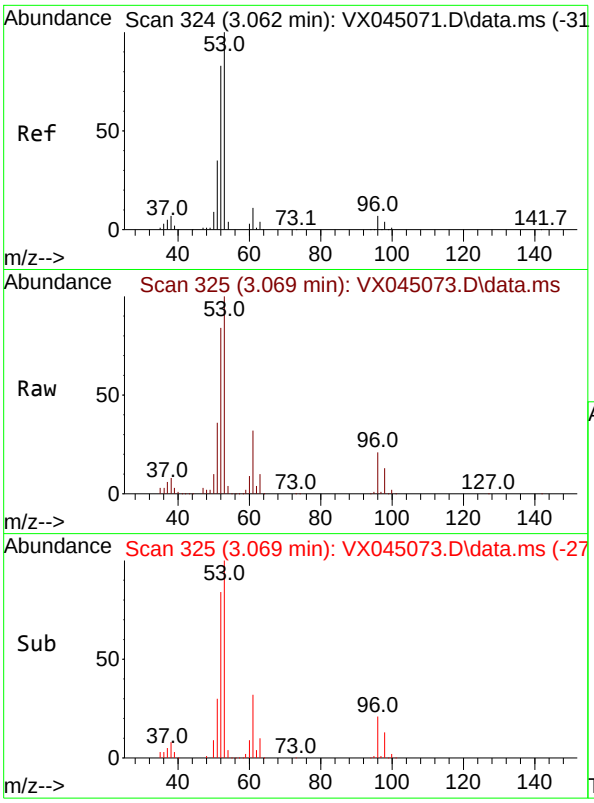


#14
Allyl chloride
Concen: 139.077 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 308018

Ion	Ratio	Lower	Upper
41	100		
39	67.9	53.8	80.8
76	33.8	25.2	37.8

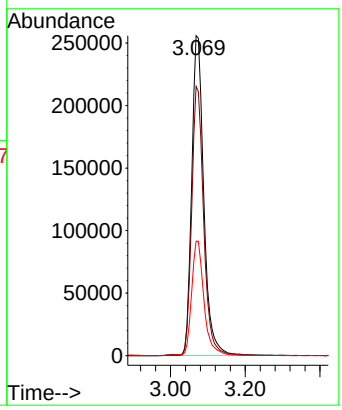




#15
Acrylonitrile
Concen: 813.990 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 53 Resp: 57320

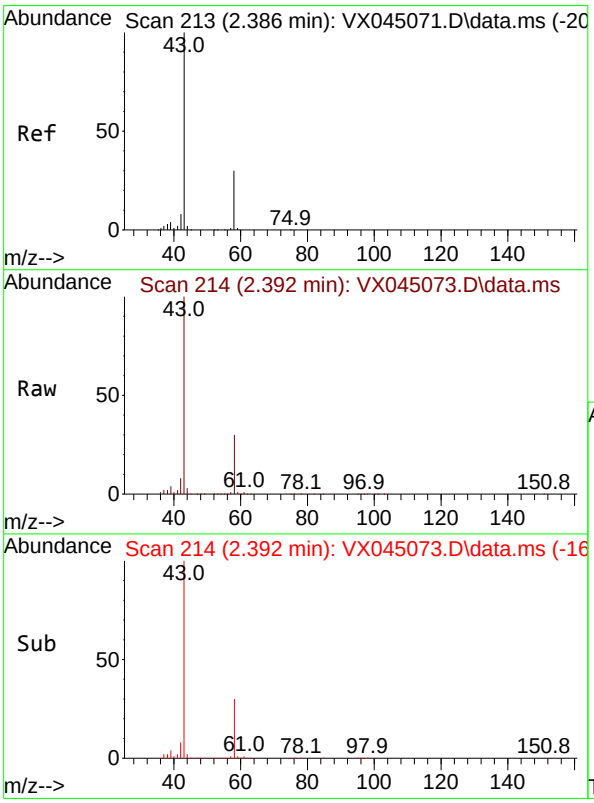
Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.2	99.2
51	37.0	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

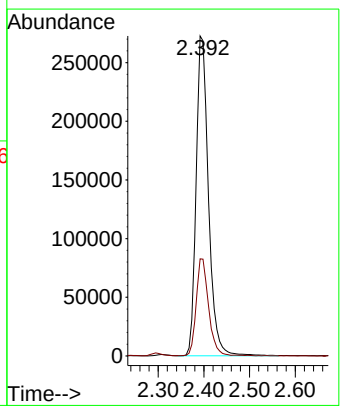
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

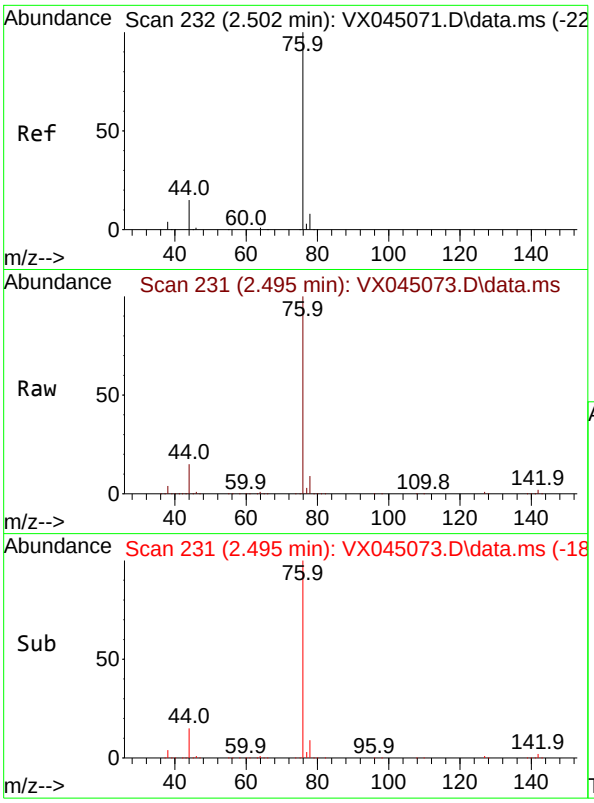


#16
Acetone
Concen: 879.387 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 511828

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4

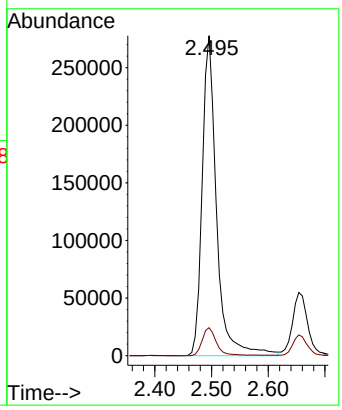




#17
Carbon Disulfide
Concen: 145.511 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 76 Resp: 48772

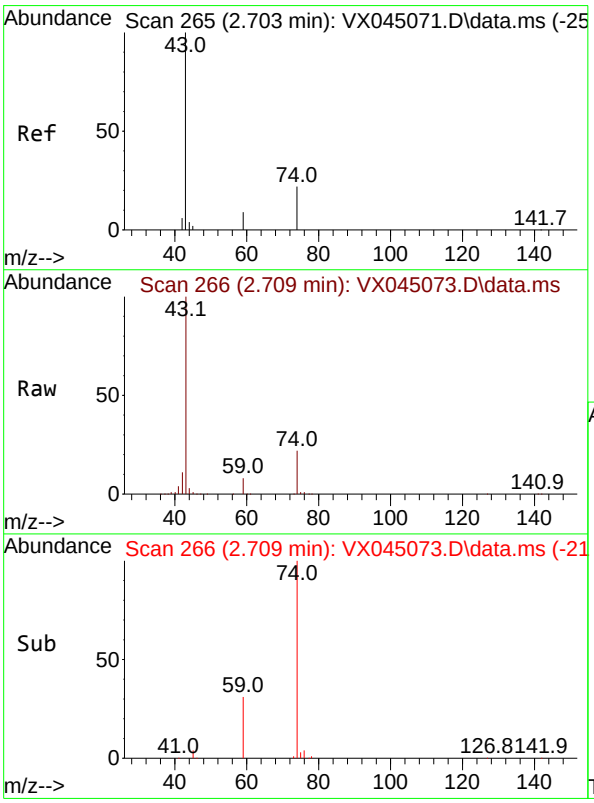
Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

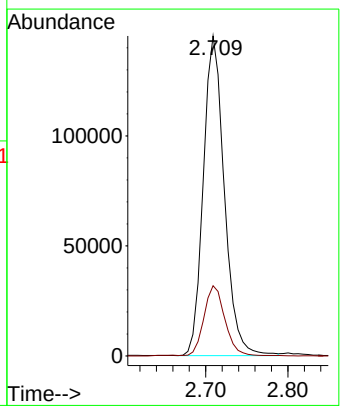
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

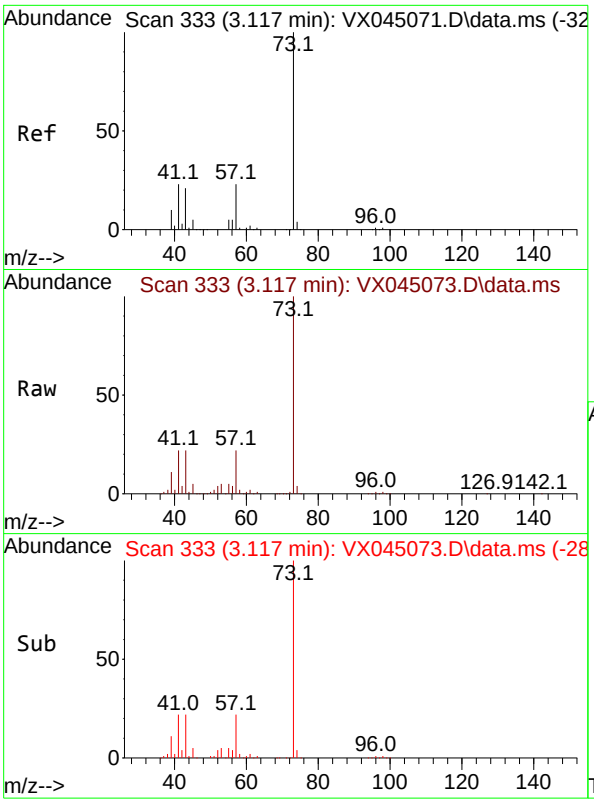


#18
Methyl Acetate
Concen: 147.347 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 258303

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

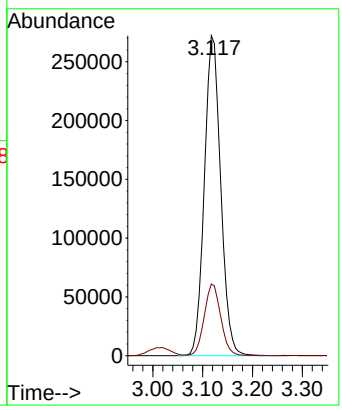




#19
Methyl tert-butyl Ether
Concen: 157.358 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 73 Resp: 61977

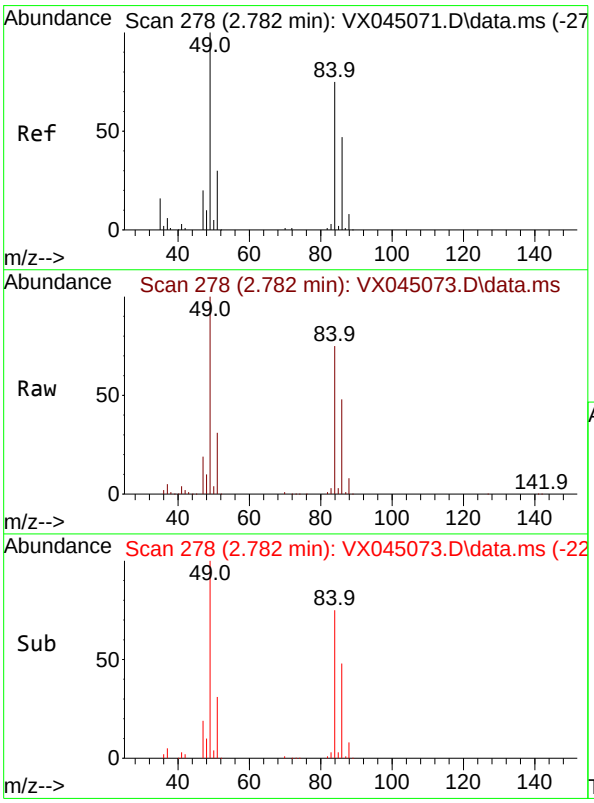
Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

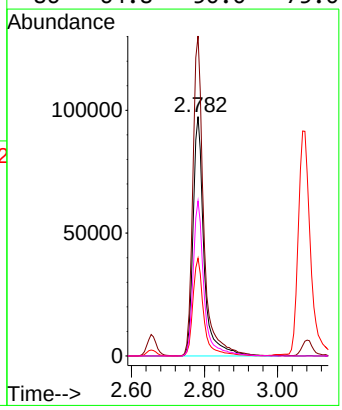
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

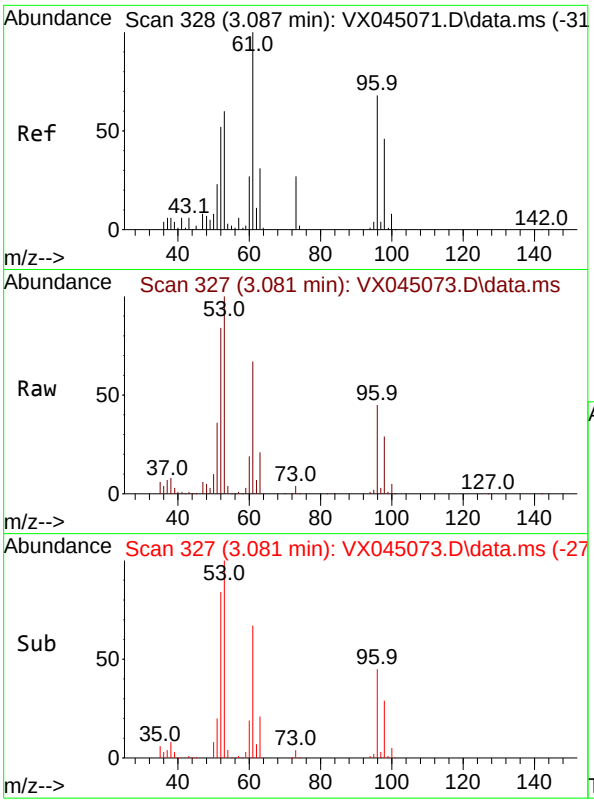


#20
Methylene Chloride
Concen: 147.198 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 84 Resp: 202913

Ion	Ratio	Lower	Upper
84	100		
49	133.6	106.5	159.7
51	40.9	32.1	48.1
86	64.8	50.0	75.0

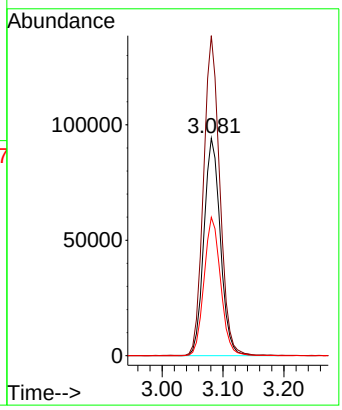




#21
trans-1,2-Dichloroethene
Concen: 146.027 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 96 Resp: 17692

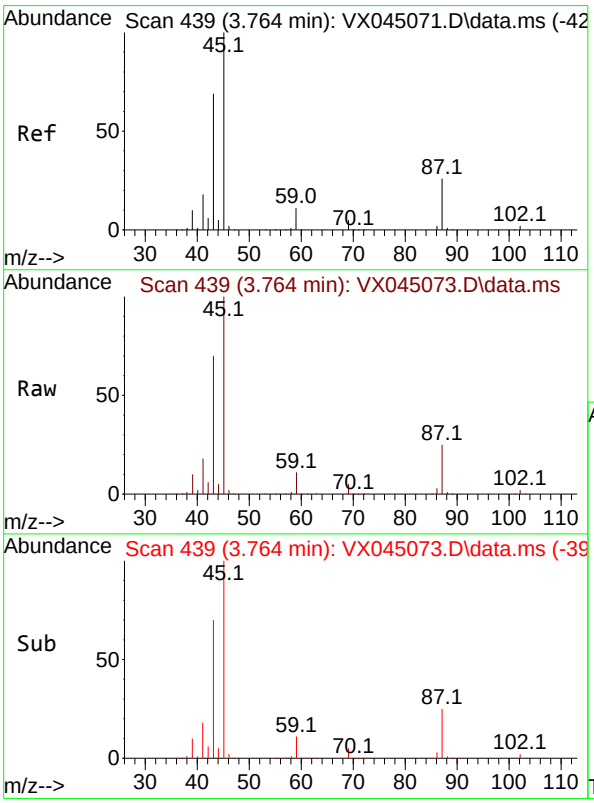
Ion	Ratio	Lower	Upper
96	100		
61	147.0	117.0	175.4
98	63.6	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

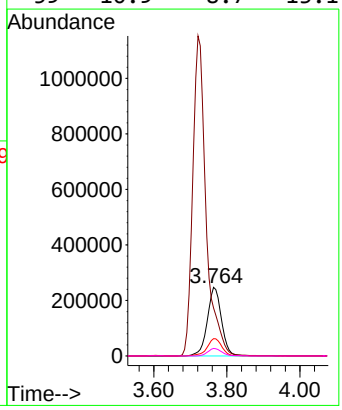
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

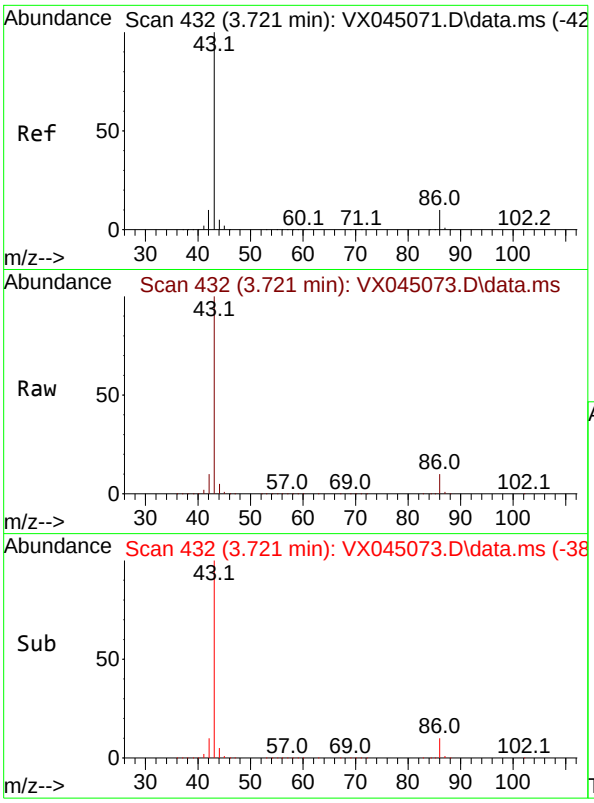


#22
Diisopropyl ether
Concen: 156.526 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 45 Resp: 662828

Ion	Ratio	Lower	Upper
45	100		
43	70.0	54.9	82.3
87	25.2	21.0	31.4
59	10.9	8.7	13.1

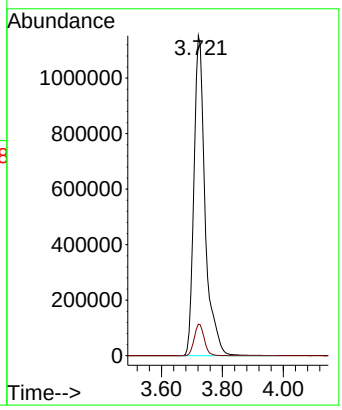




#23
Vinyl Acetate
Concen: 846.586 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 294315

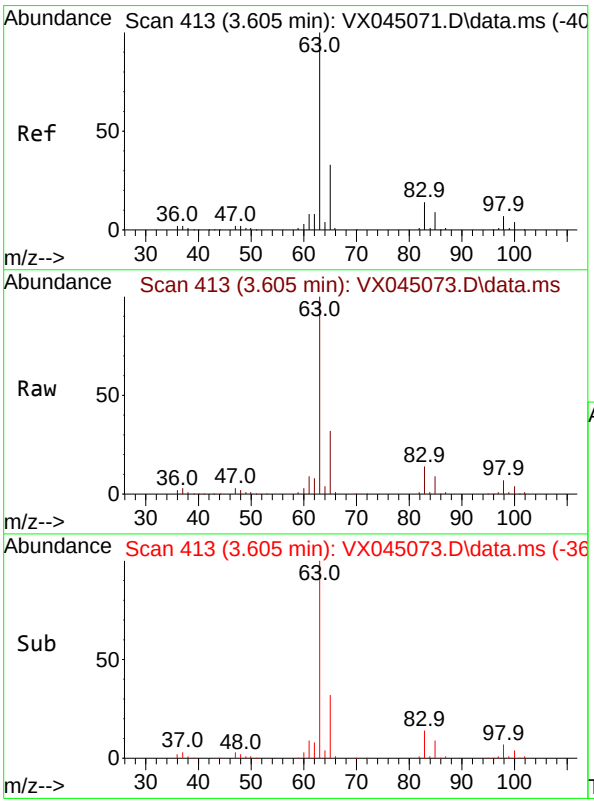
Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

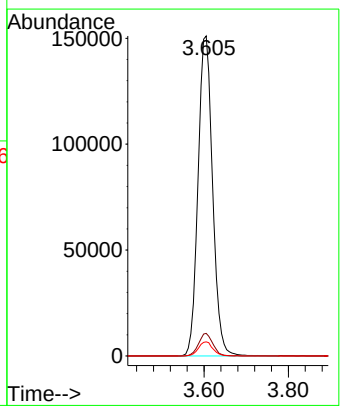
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

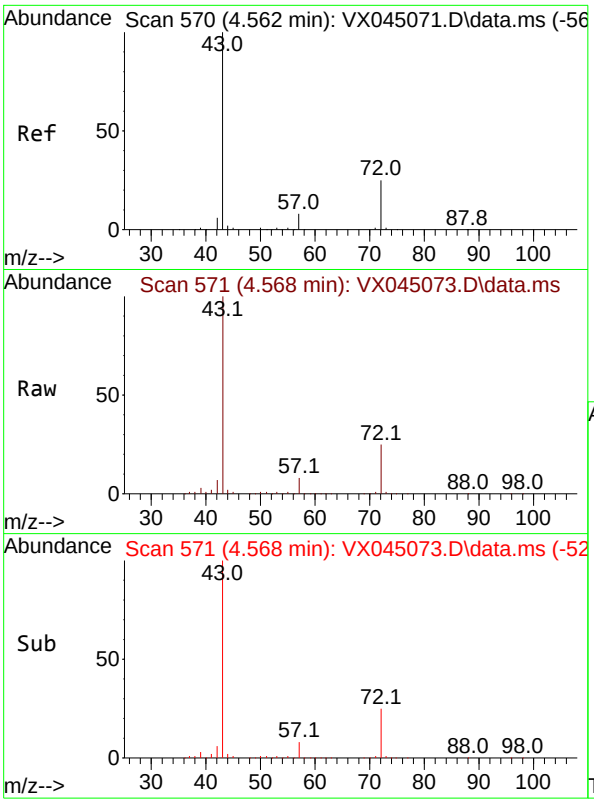


#24
1,1-Dichloroethane
Concen: 153.453 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 363081

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.4	10.2
100	4.4	2.1	6.5

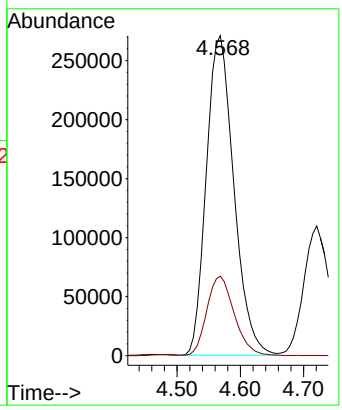




#25
2-Butanone
Concen: 872.239 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 81849

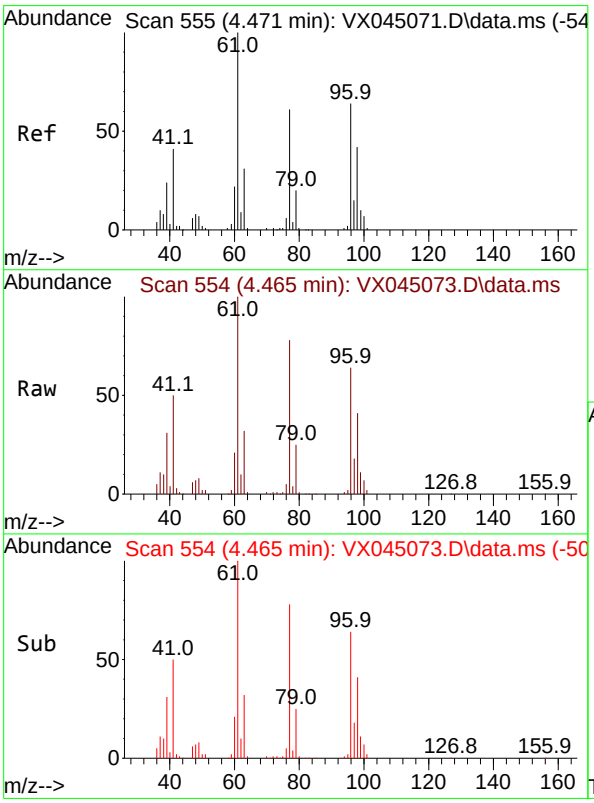
Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.0	30.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

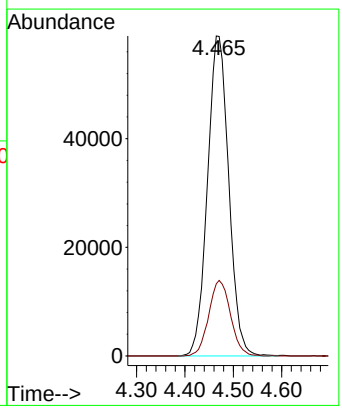
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

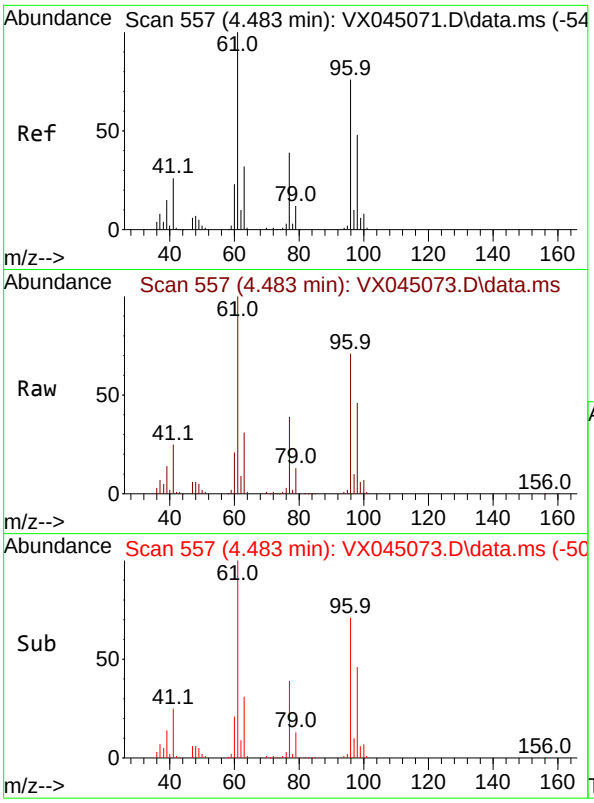


#26
2,2-Dichloropropane
Concen: 102.231 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 77 Resp: 179826

Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.4	37.0

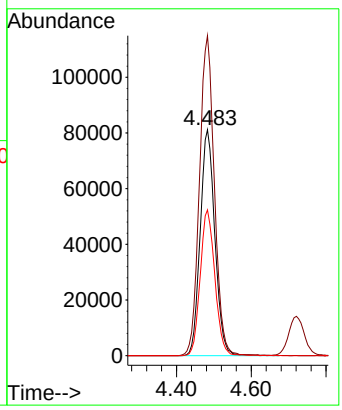




#27
cis-1,2-Dichloroethene
Concen: 151.205 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 96 Resp: 22082

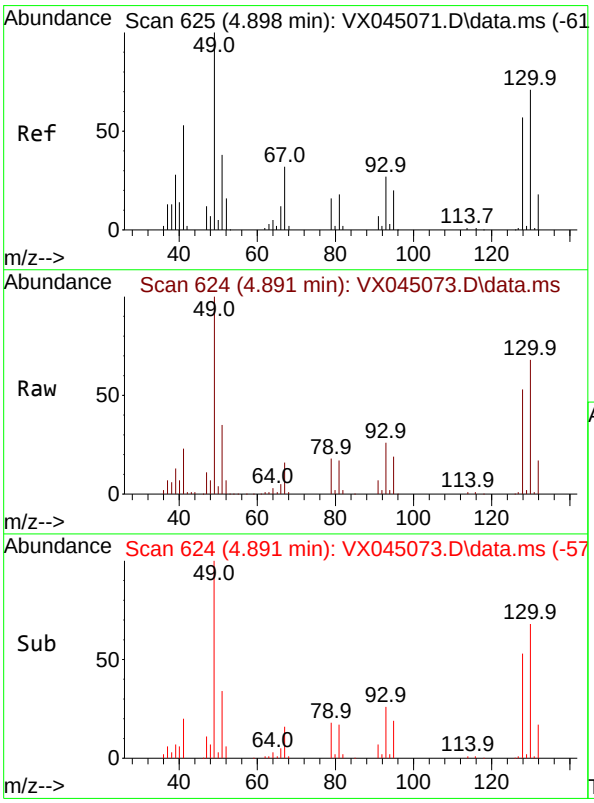
Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	283.2
98	64.3	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

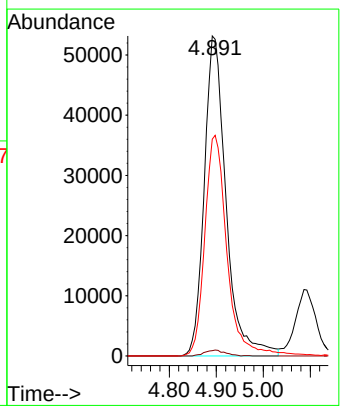
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

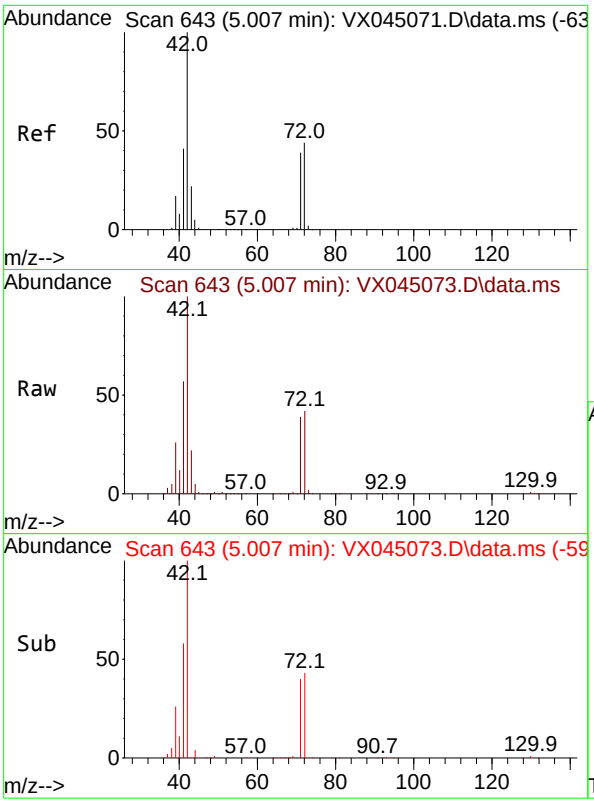


#28
Bromochloromethane
Concen: 150.105 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 49 Resp: 171273

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.3	56.1	84.1





#29
Tetrahydrofuran
Concen: 850.174 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

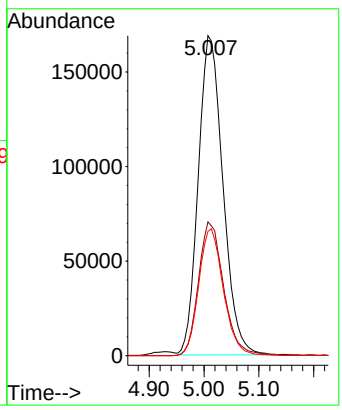
Tgt Ion: 42 Resp: 52857

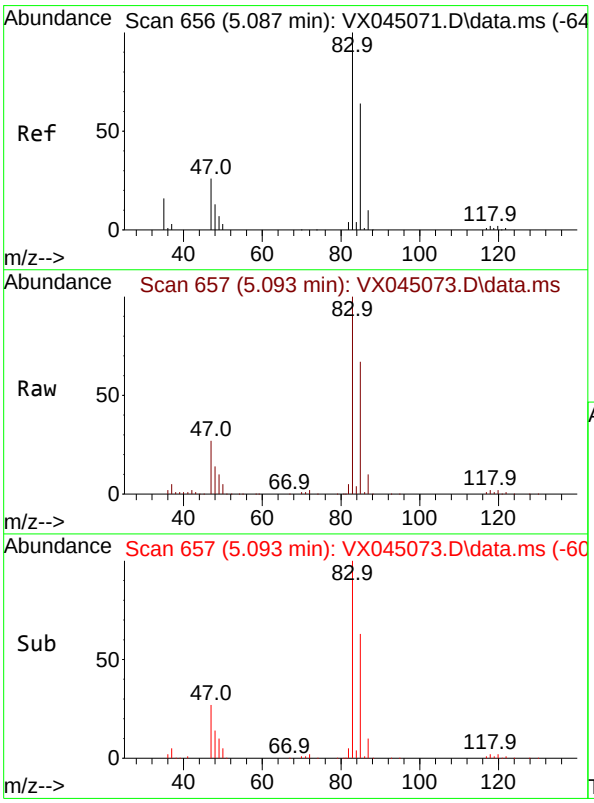
Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.1	51.1
71	39.7	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

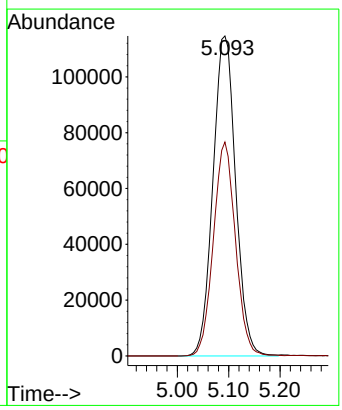


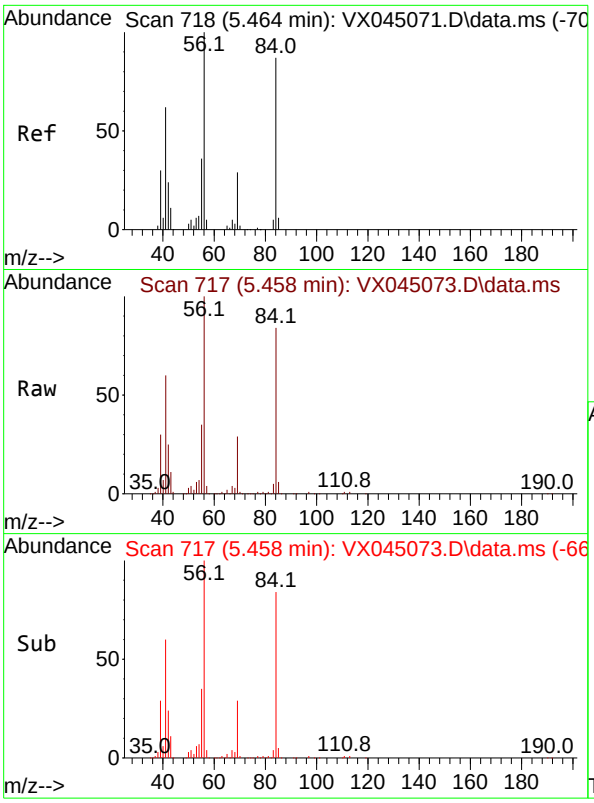


#30
Chloroform
Concen: 152.067 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 83 Resp: 351934

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.4	77.2

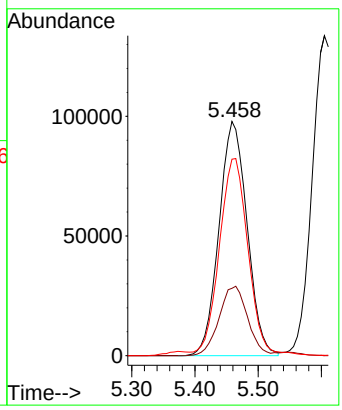




#31
Cyclohexane
Concen: 139.174 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 56 Resp: 30221

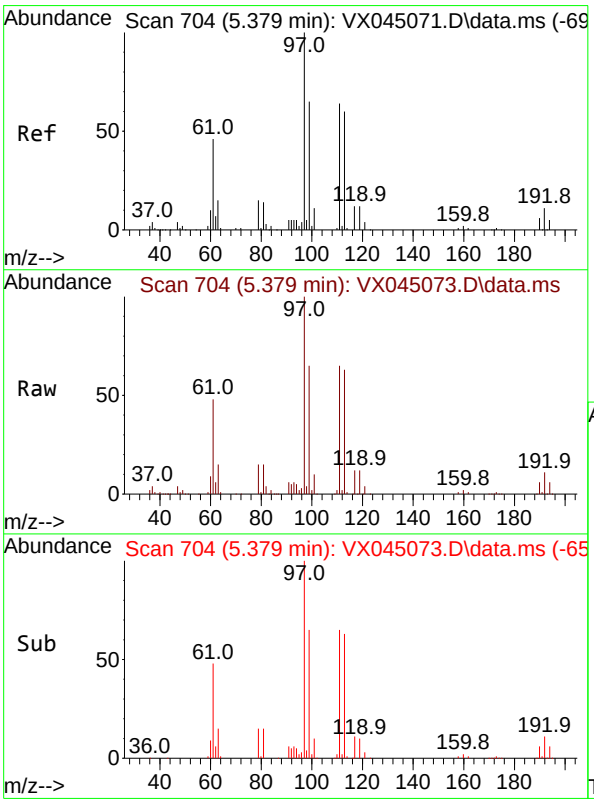
Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	82.2	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

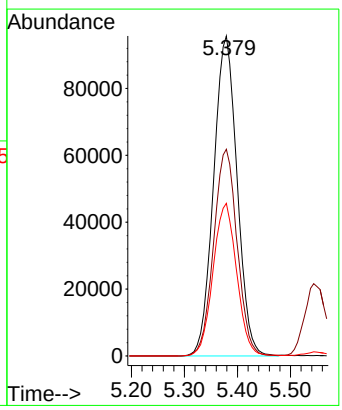
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

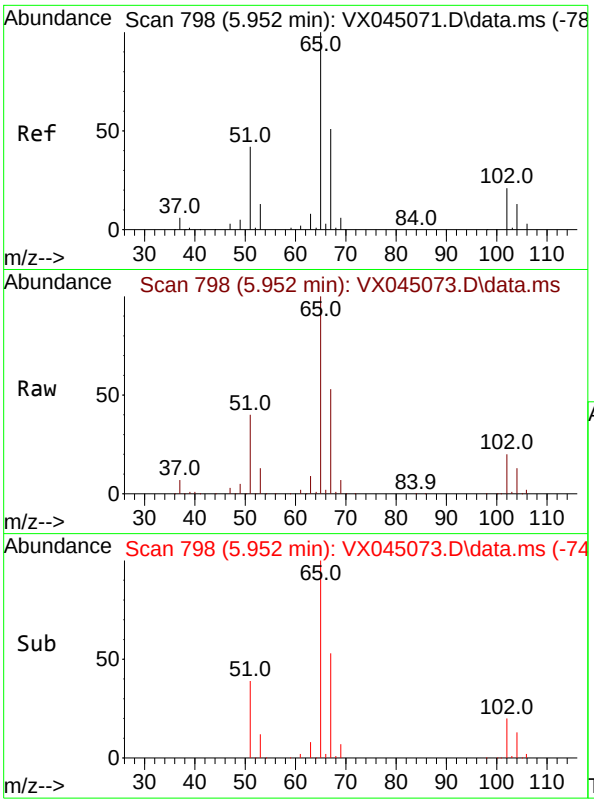


#32
1,1,1-Trichloroethane
Concen: 151.120 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 97 Resp: 294434

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	48.1	38.4	57.6

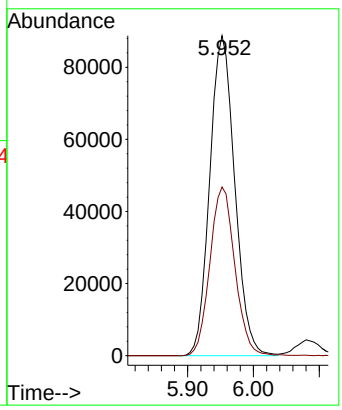




#33
1,2-Dichloroethane-d4
Concen: 165.865 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 65 Resp: 23462

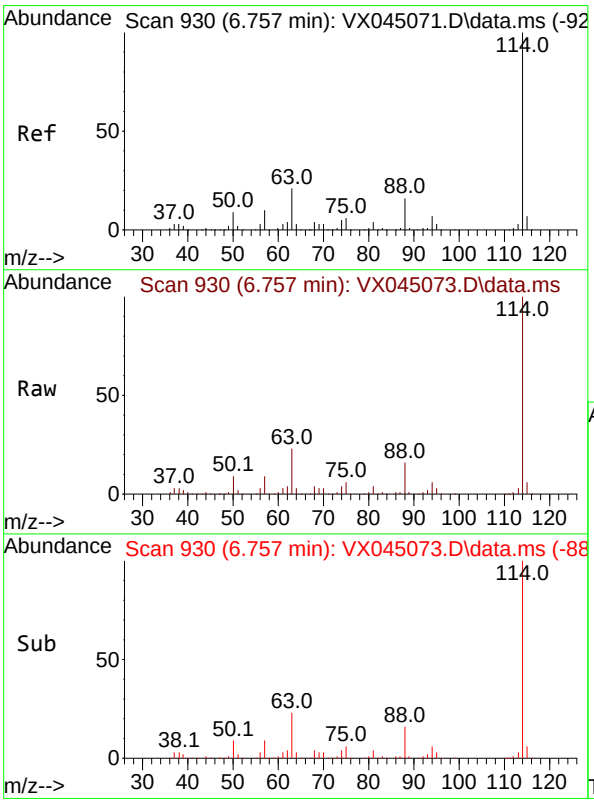
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

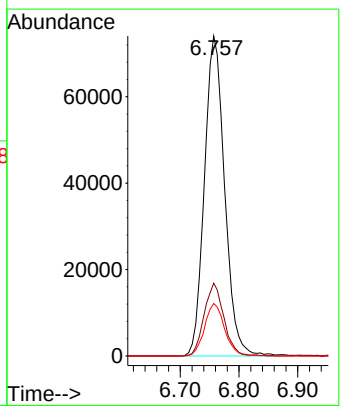
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

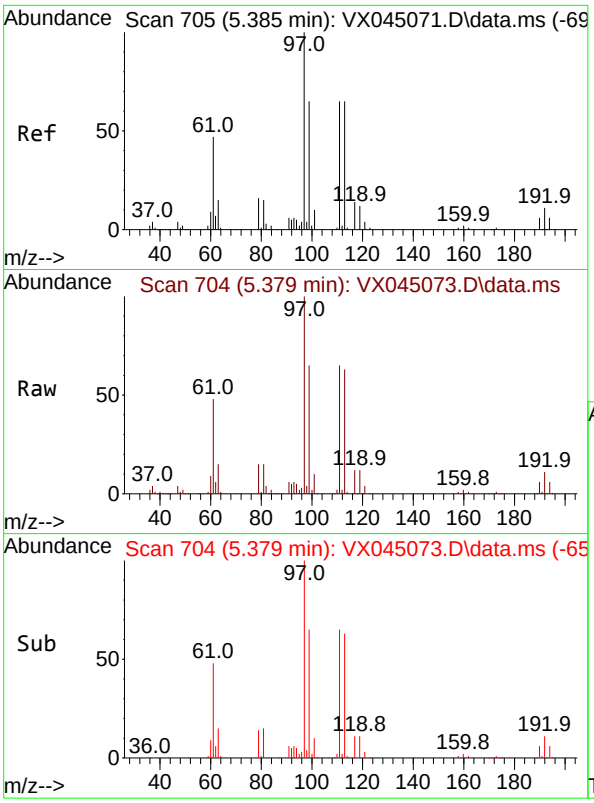


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:114 Resp: 176991

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	41.8
88	16.4	0.0	32.8

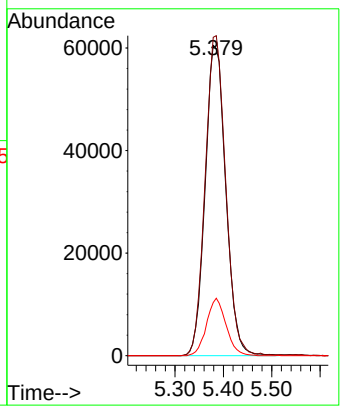




#35
Dibromofluoromethane
Concen: 155.359 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:113 Resp: 17972

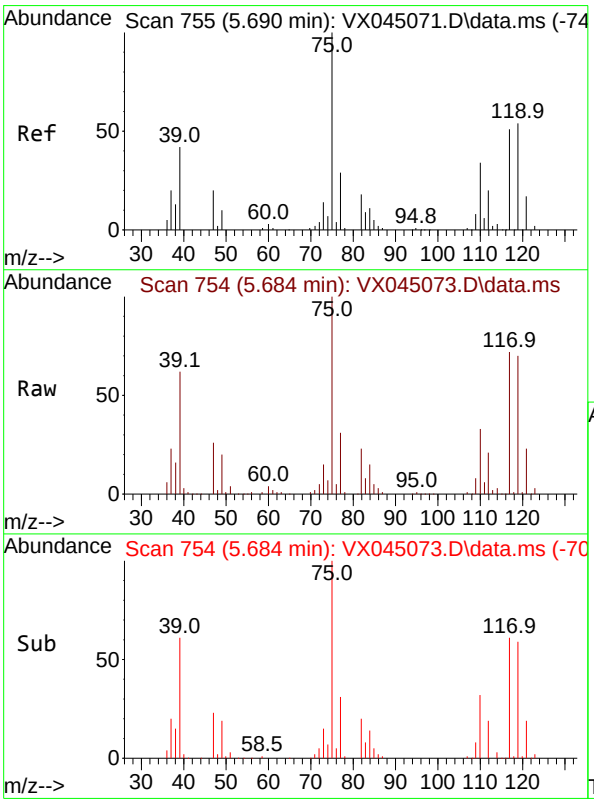
Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	17.5	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

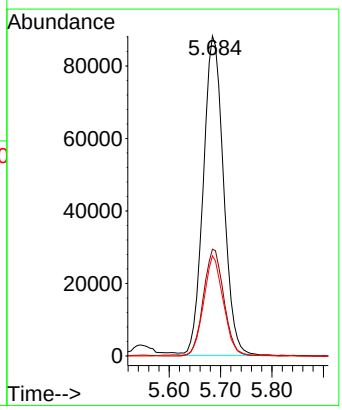
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

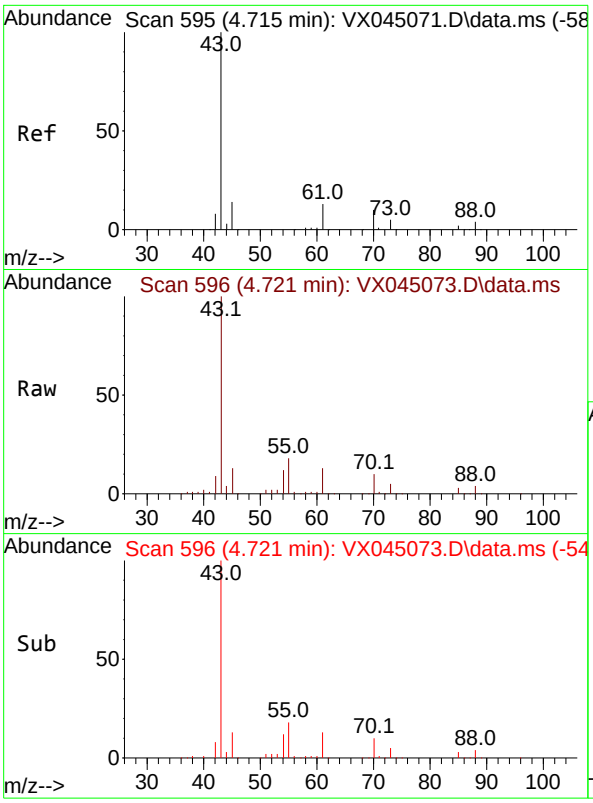


#36
1,1-Dichloropropene
Concen: 145.112 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 241405

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	30.5	24.5	36.7

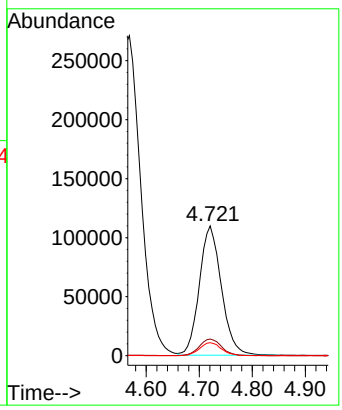




#37
Ethyl Acetate
Concen: 167.067 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 31625

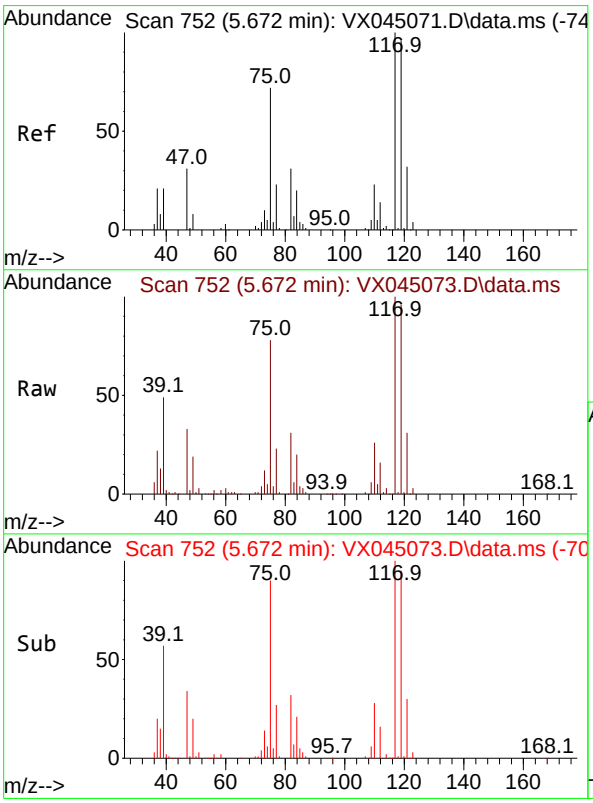
Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.8	16.2
70	10.1	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

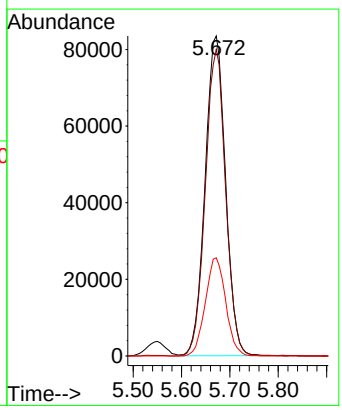
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

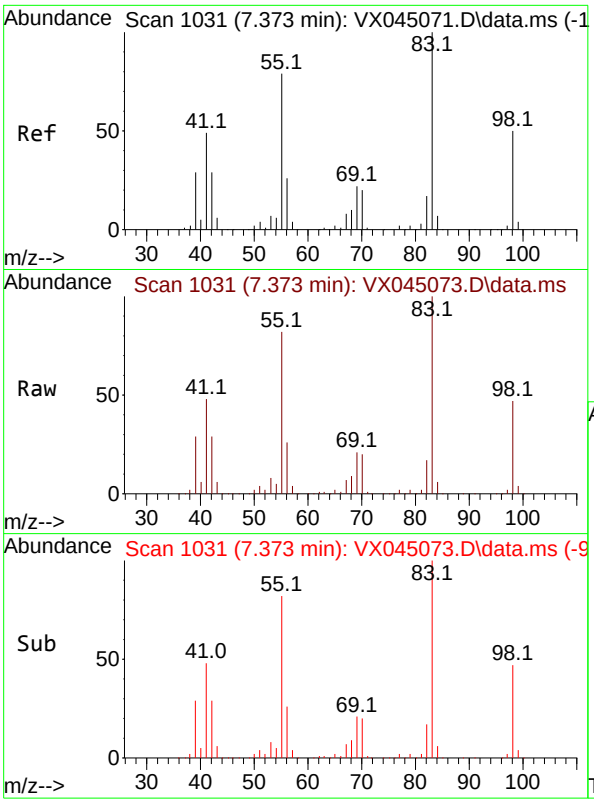


#38
Carbon Tetrachloride
Concen: 150.363 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 245917

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
121	30.7	25.5	38.3

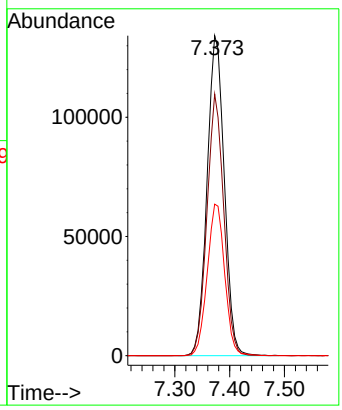




#39
Methylcyclohexane
Concen: 137.544 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 83 Resp: 29221

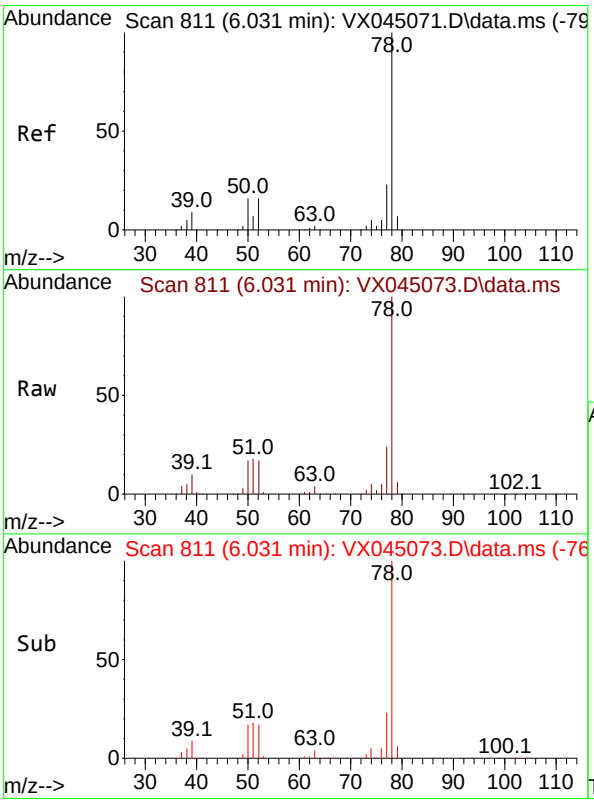
Ion	Ratio	Lower	Upper
83	100		
55	81.7	63.0	94.4
98	47.4	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

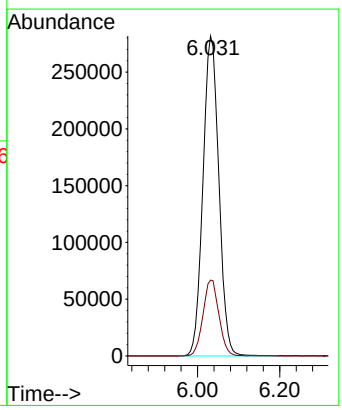
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

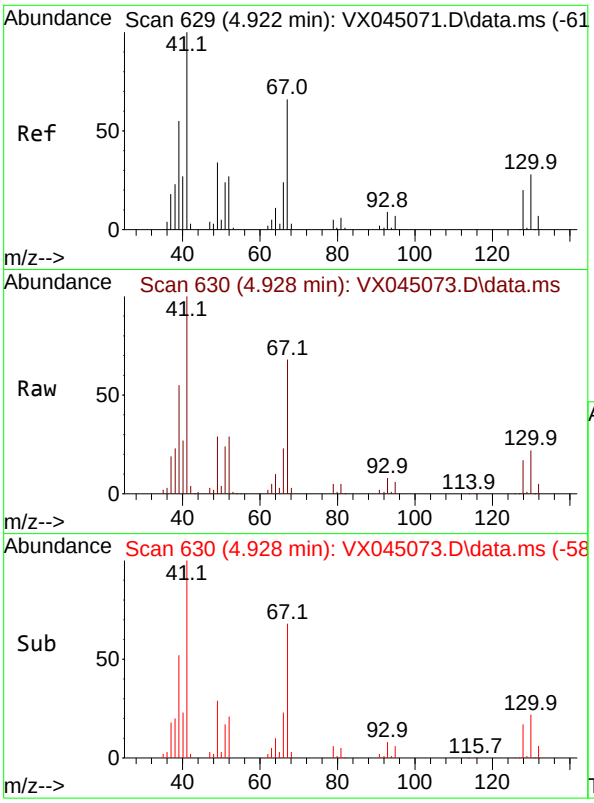


#40
Benzene
Concen: 145.368 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 78 Resp: 755854

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2

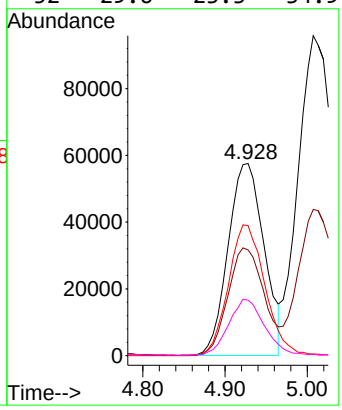




#41
Methacrylonitrile
Concen: 173.088 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 17502

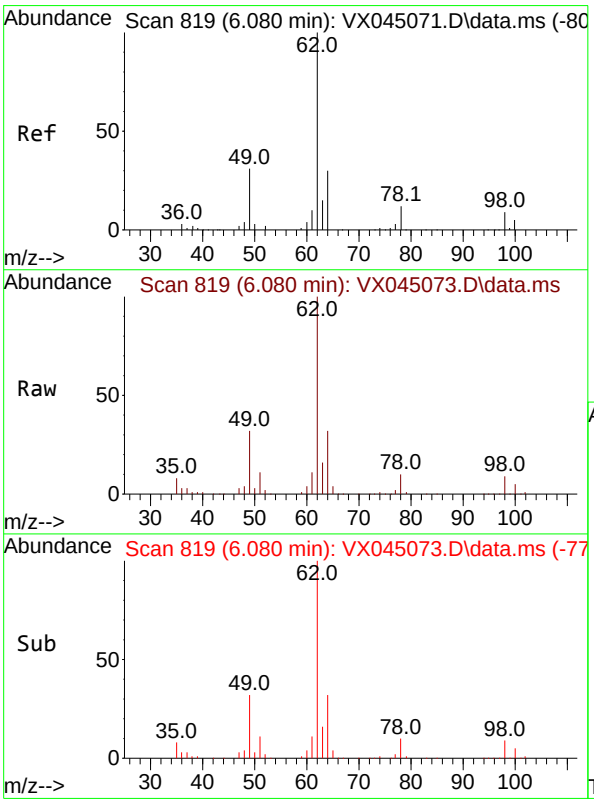
Ion	Ratio	Lower	Upper
41	100		
39	55.9	44.6	67.0
67	69.5	53.9	80.9
52	29.6	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

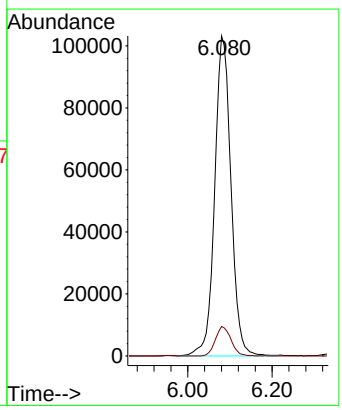
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

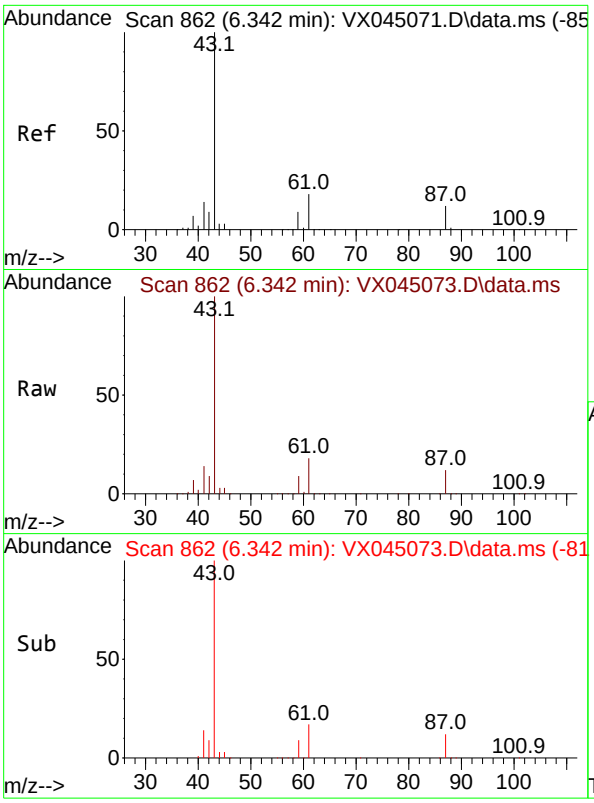


#42
1,2-Dichloroethane
Concen: 163.872 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 276129

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2

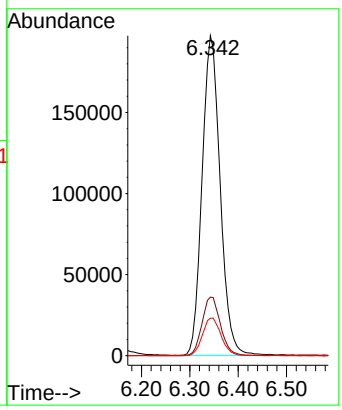




#43
Isopropyl Acetate
Concen: 169.804 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 51164

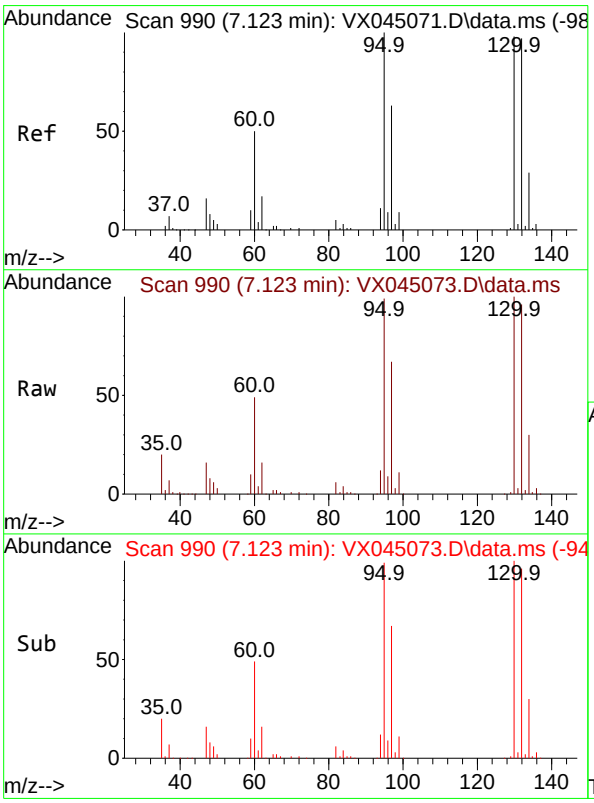
Ion	Ratio	Lower	Upper
43	100		
61	18.7	14.9	22.3
87	12.1	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

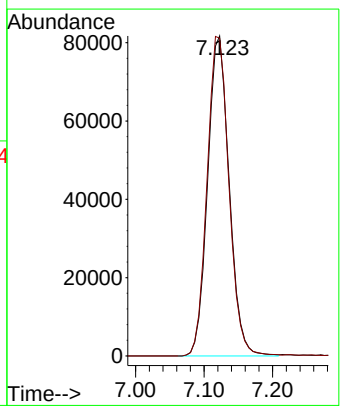
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

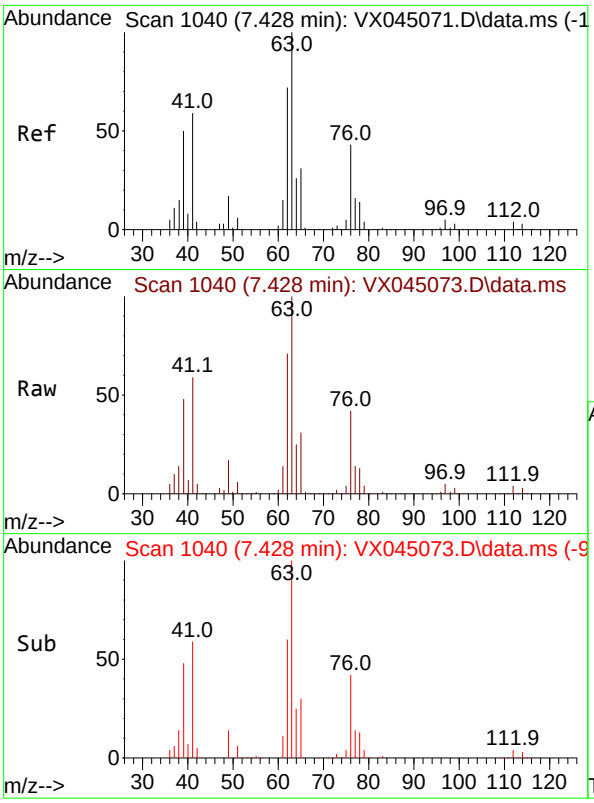


#44
Trichloroethene
Concen: 150.181 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:130 Resp: 178483

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	205.0

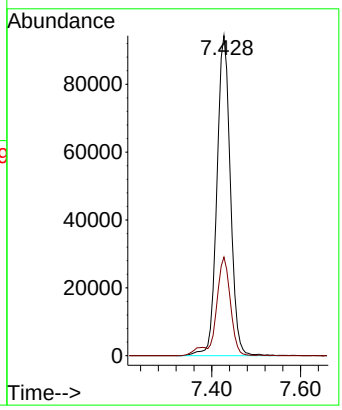




#45
1,2-Dichloropropane
Concen: 153.334 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 19813

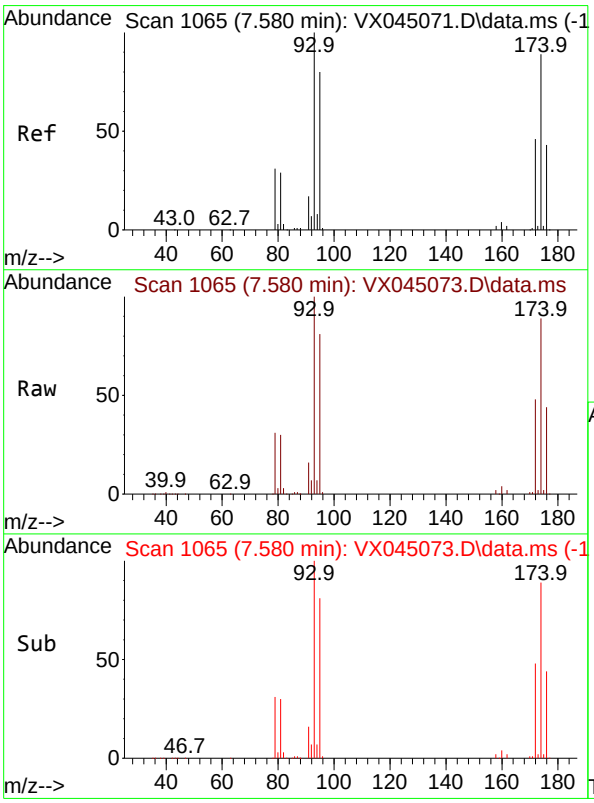
Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

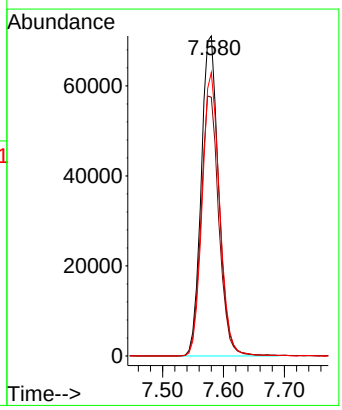
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

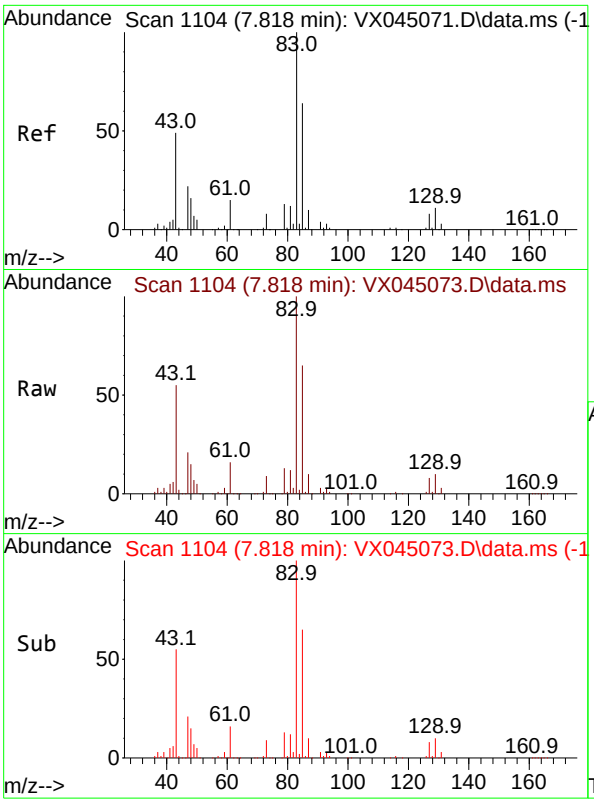


#46
Dibromomethane
Concen: 157.443 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 93 Resp: 142119

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.8	98.8
174	88.2	72.2	108.2

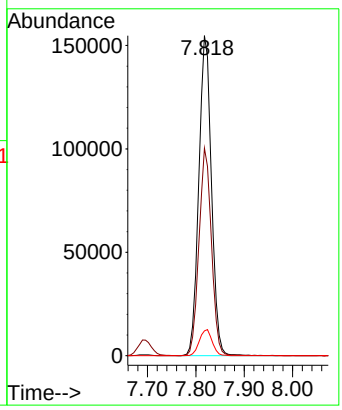




#47
Bromodichloromethane
Concen: 160.492 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 83 Resp: 28025

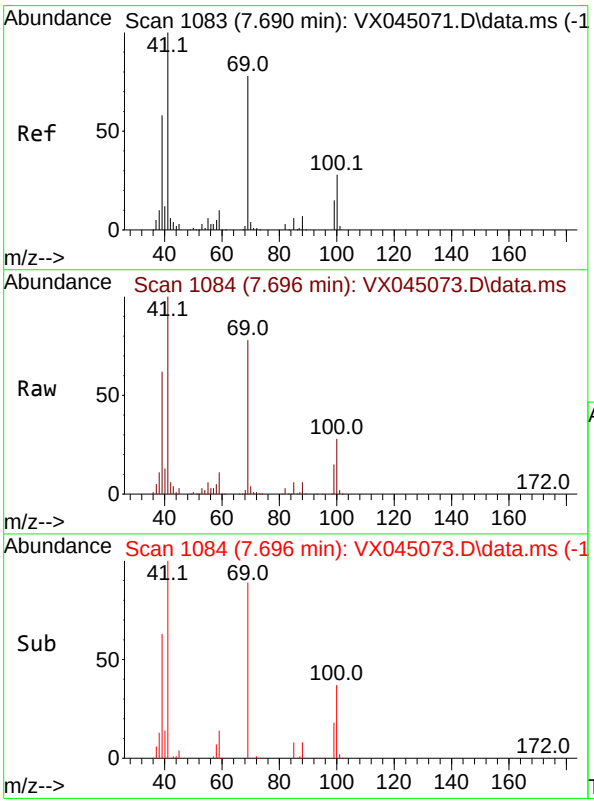
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.1	76.7
127	7.8	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

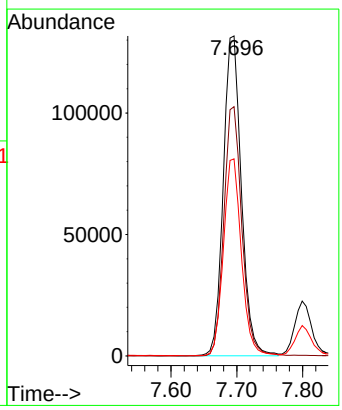
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

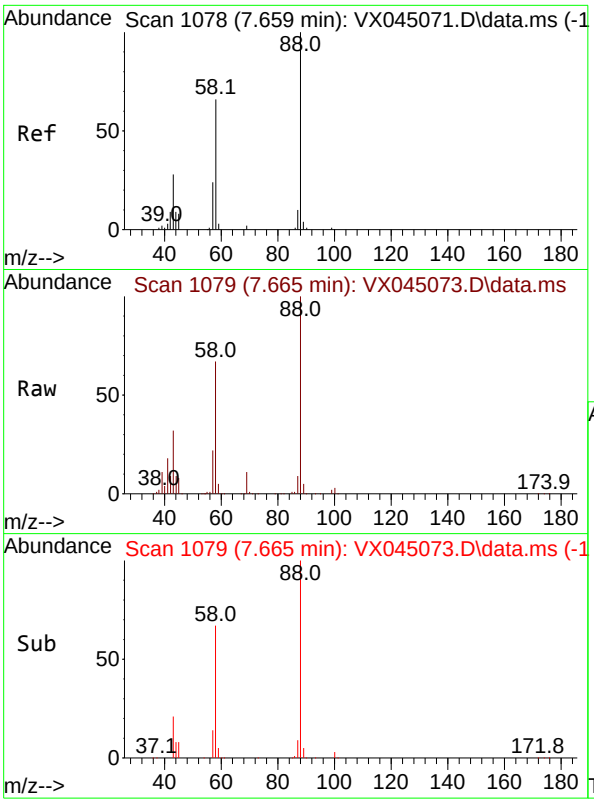


#48
Methyl methacrylate
Concen: 176.370 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 252275

Ion	Ratio	Lower	Upper
41	100		
69	78.1	63.0	94.6
39	61.1	47.5	71.3

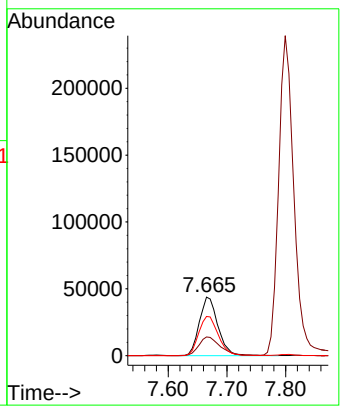




#49
1,4-Dioxane
Concen: 3166.423 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 88 Resp: 9626

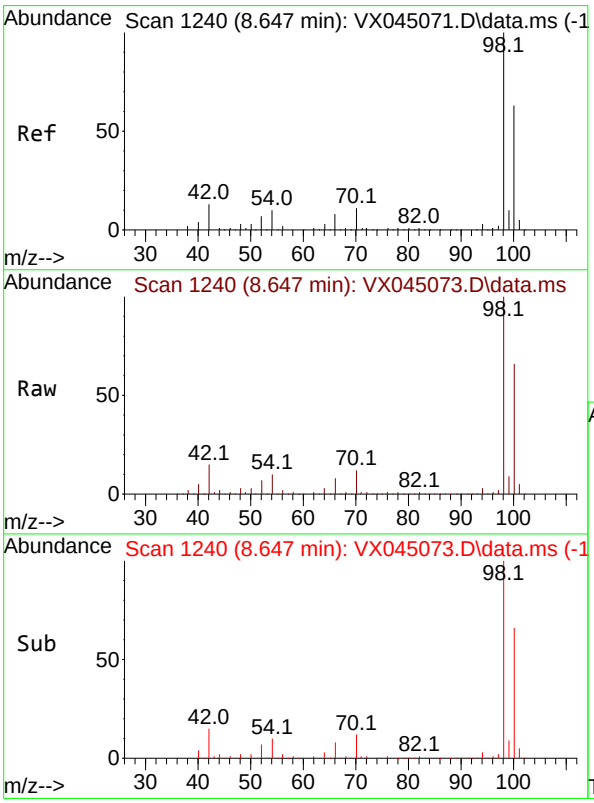
Ion	Ratio	Lower	Upper
88	100		
43	37.0	28.7	43.1
58	70.8	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

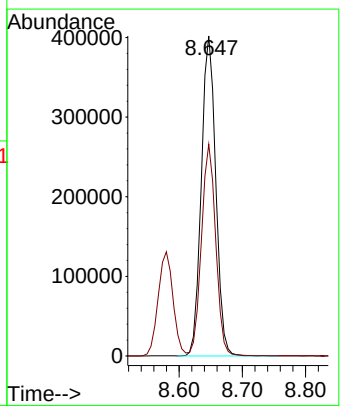
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

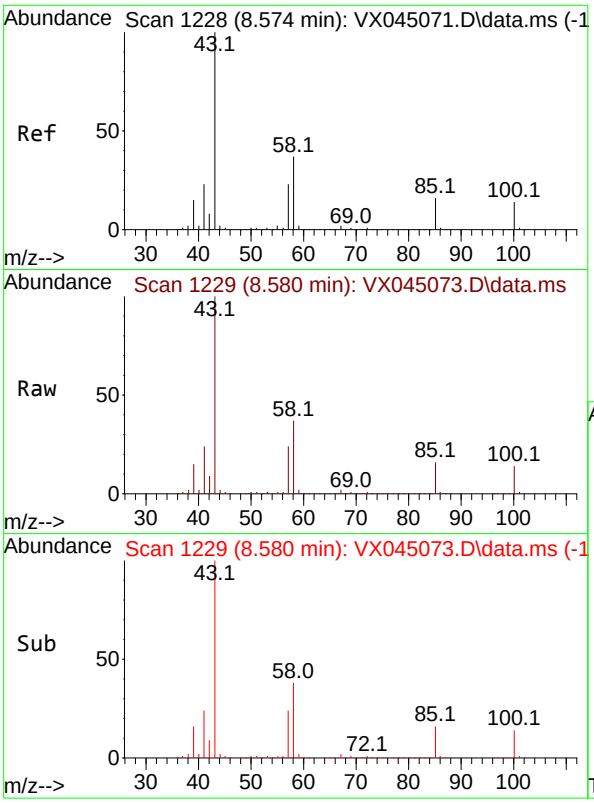


#50
Toluene-d8
Concen: 147.538 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 98 Resp: 638979

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 832.051 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

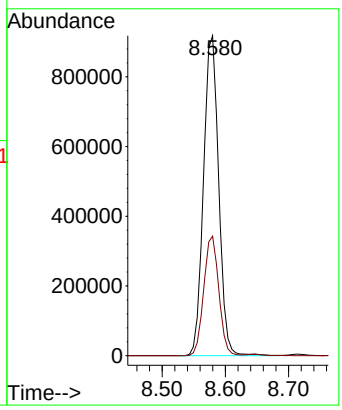
Tgt Ion: 43 Resp: 153615

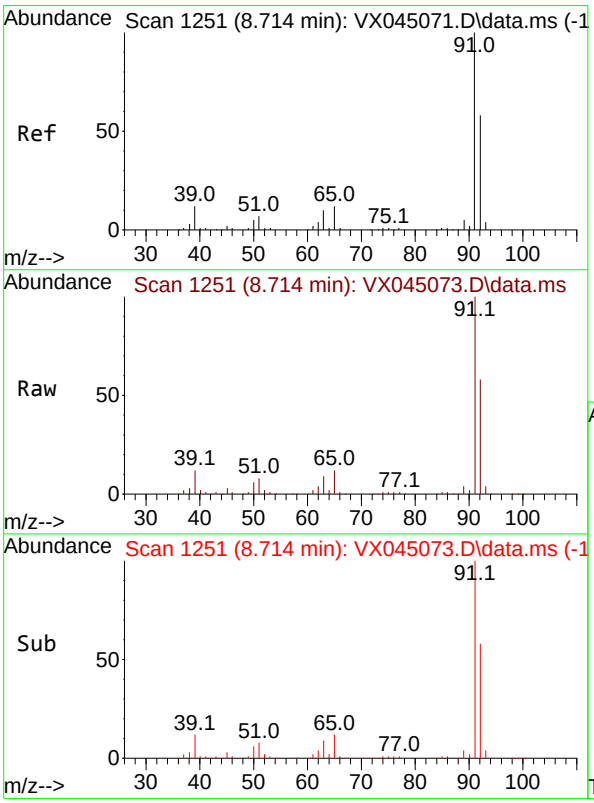
Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

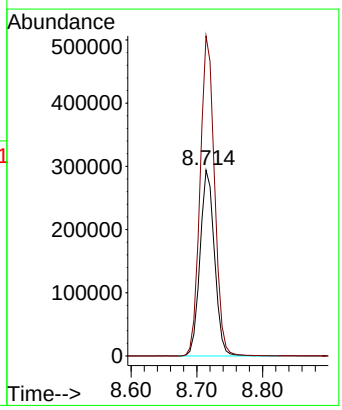


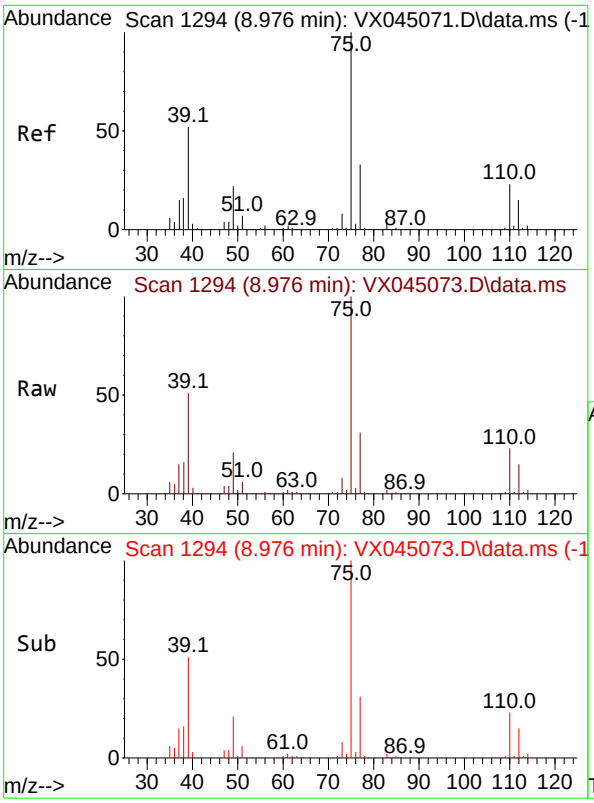


#52
Toluene
Concen: 145.321 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 92 Resp: 448664

Ion	Ratio	Lower	Upper
92	100		
91	172.3	138.9	208.3

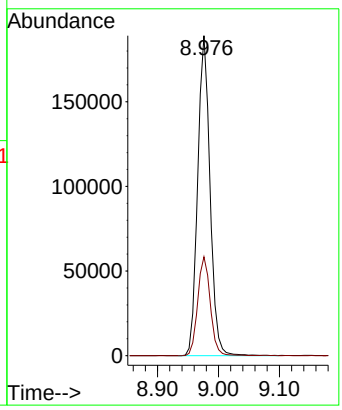




#53
t-1,3-Dichloropropene
Concen: 154.373 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 26644

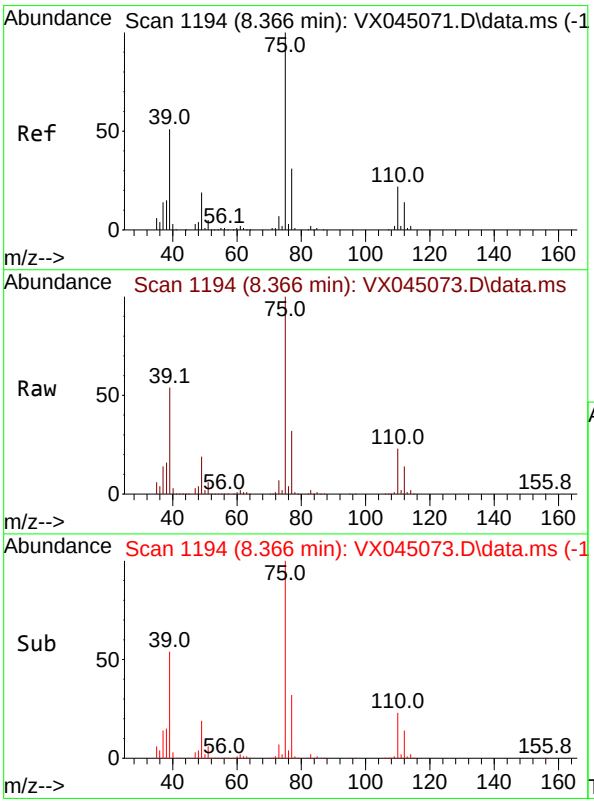
Ion	Ratio	Lower	Upper
75	100		
77	30.9	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

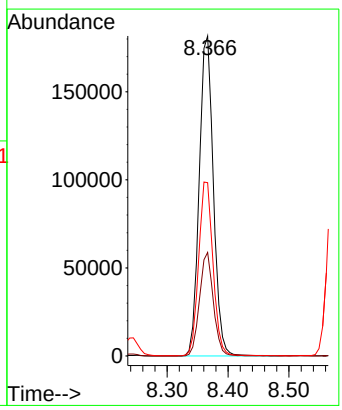
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

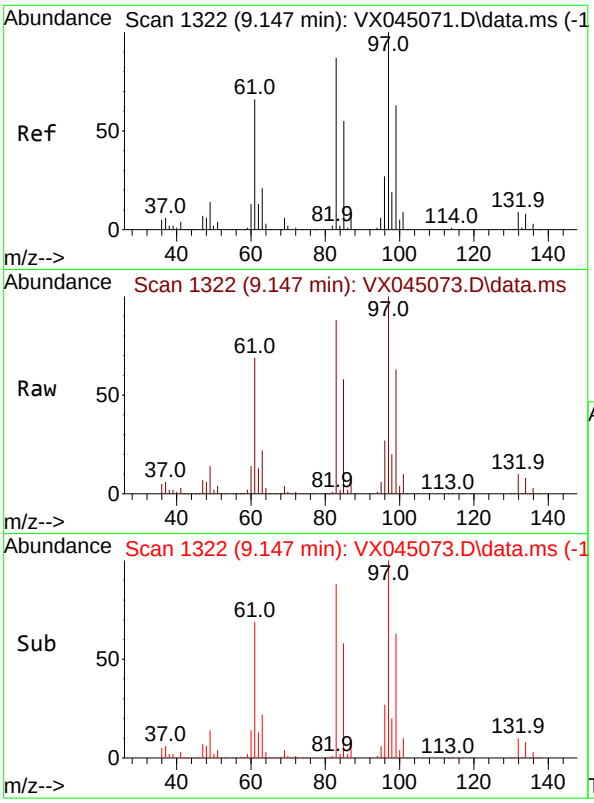


#54
cis-1,3-Dichloropropene
Concen: 152.117 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 293521

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	54.0	40.7	61.1

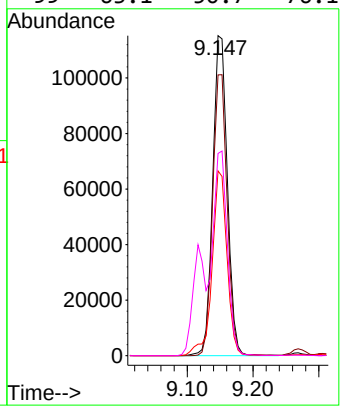




#55
1,1,2-Trichloroethane
Concen: 149.046 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 97 Resp: 17821

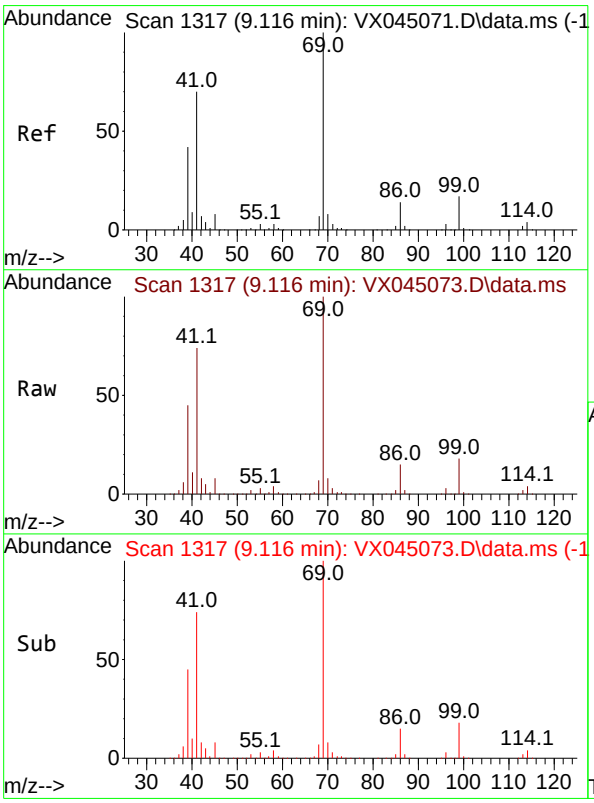
Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.4	104.2
85	57.8	44.1	66.1
99	63.1	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

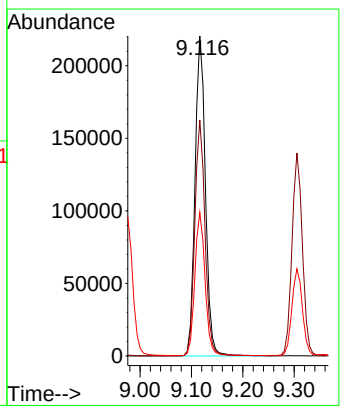
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

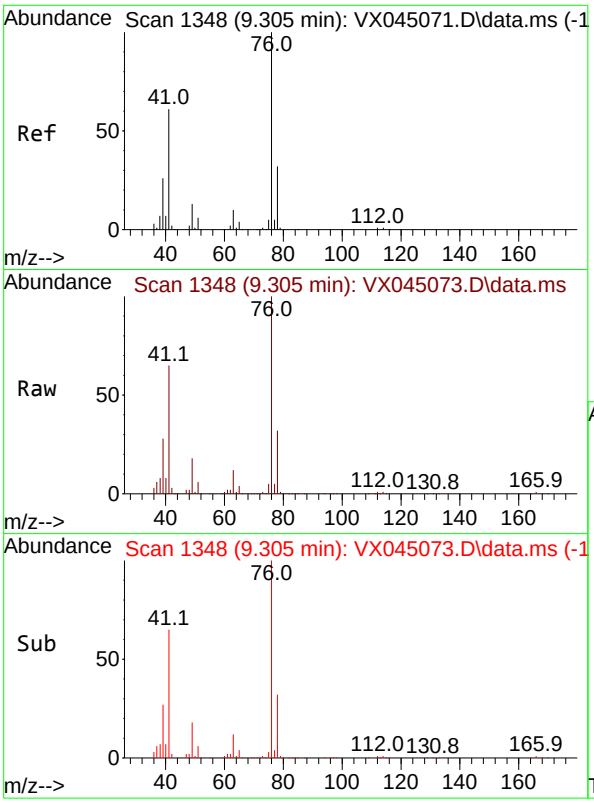


#56
Ethyl methacrylate
Concen: 162.631 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 69 Resp: 310992

Ion	Ratio	Lower	Upper
69	100		
41	72.6	57.0	85.4
39	44.2	34.2	51.4

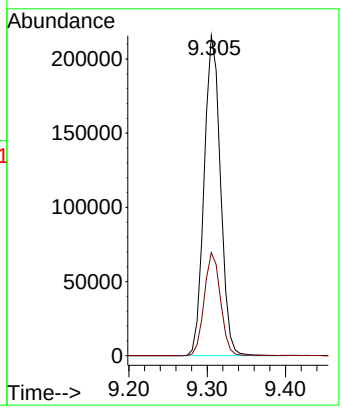




#57
1,3-Dichloropropane
Concen: 149.699 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 76 Resp: 31219

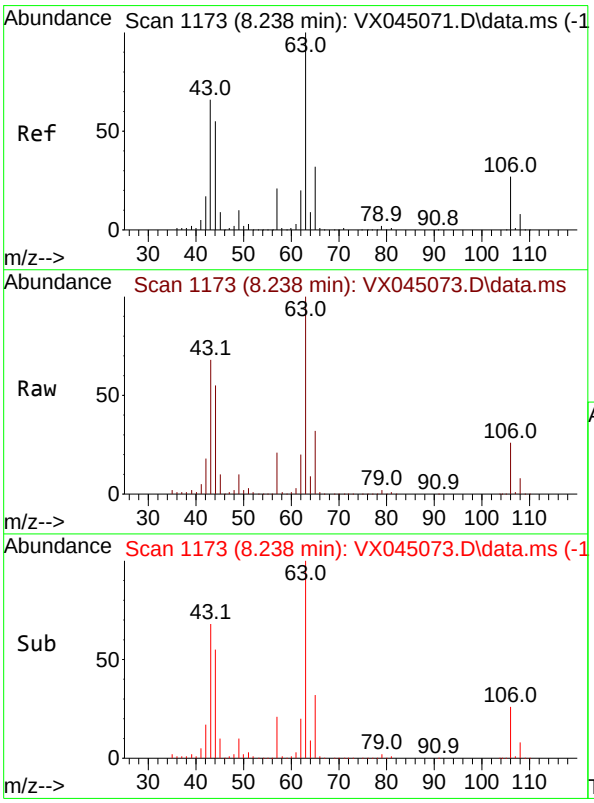
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

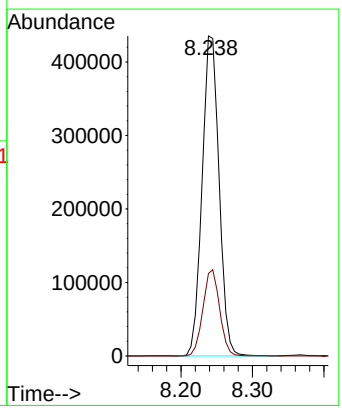
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

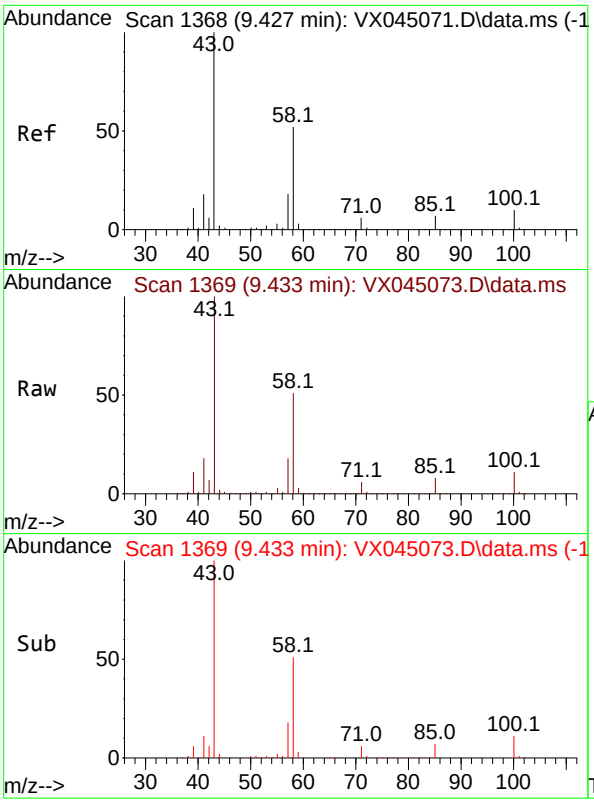


#58
2-Chloroethyl Vinyl ether
Concen: 764.019 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 717328

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3

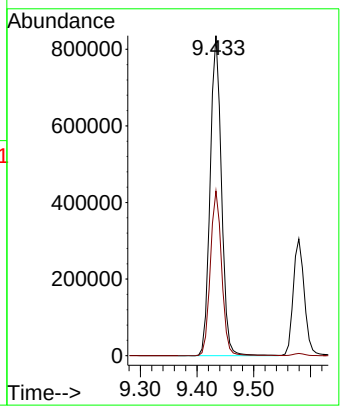




#59
2-Hexanone
Concen: 868.492 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 115665

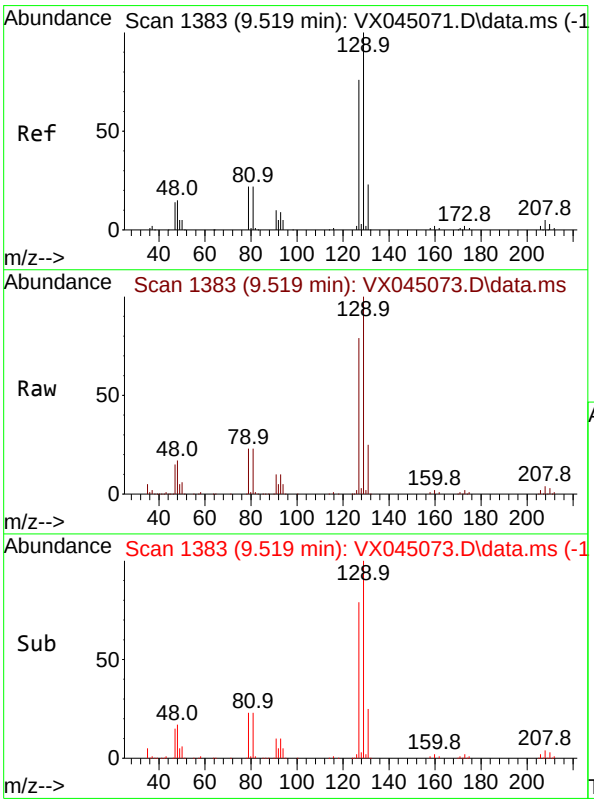
Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.9	77.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

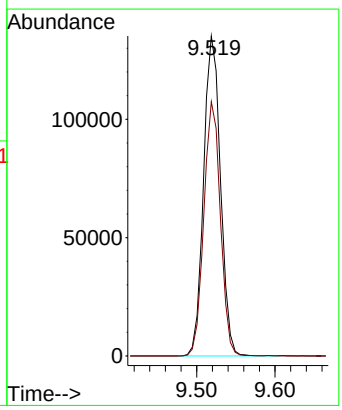
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

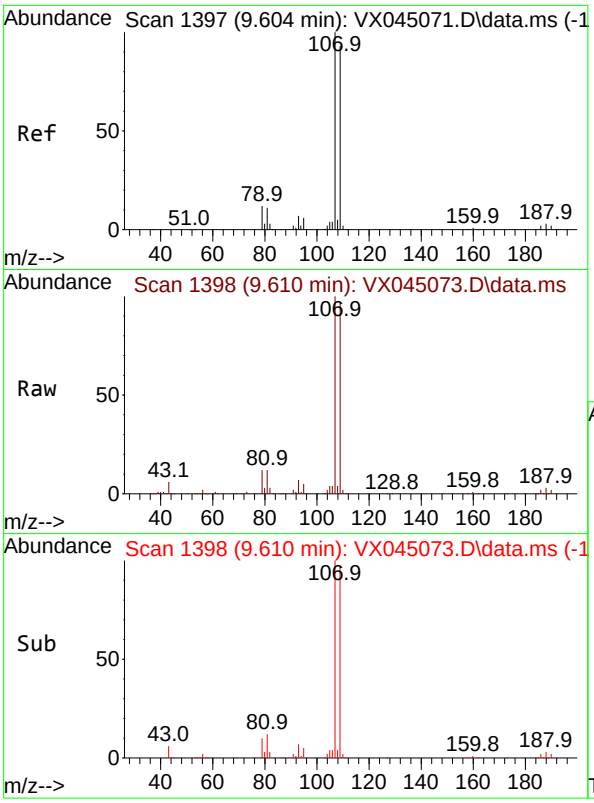


#60
Dibromochloromethane
Concen: 158.276 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:129 Resp: 201906

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.5	115.5

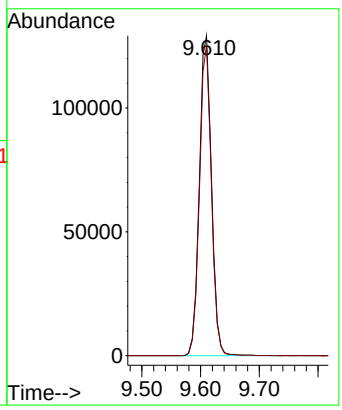




#61
1,2-Dibromoethane
Concen: 154.074 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:107 Resp: 18582

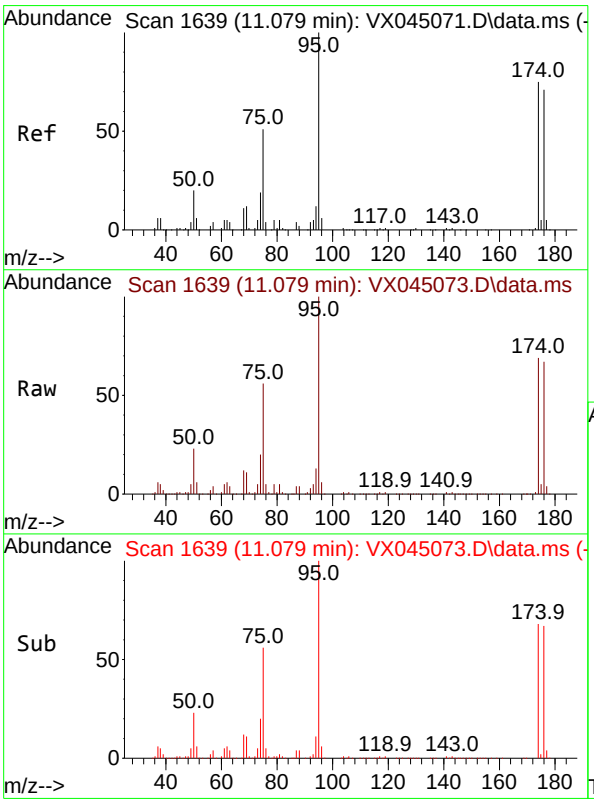
Ion	Ratio	Lower	Upper
107	100		
109	95.2	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

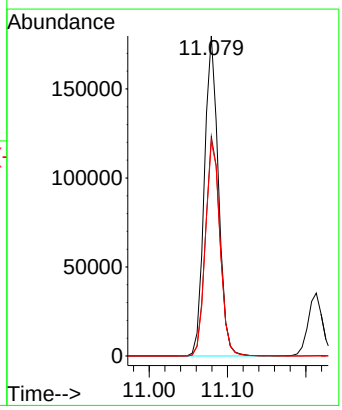
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

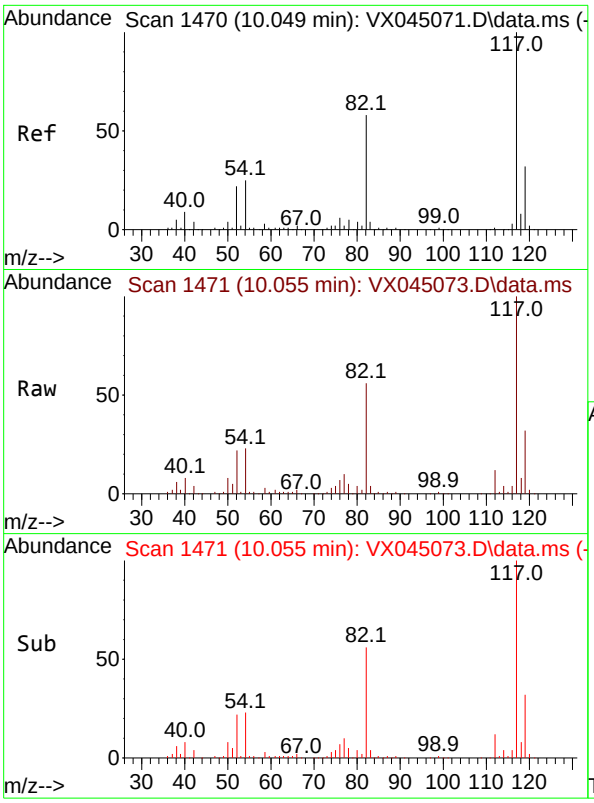


#62
4-Bromofluorobenzene
Concen: 154.420 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 95 Resp: 223346

Ion	Ratio	Lower	Upper
95	100		
174	70.4	0.0	148.2
176	69.4	0.0	141.4

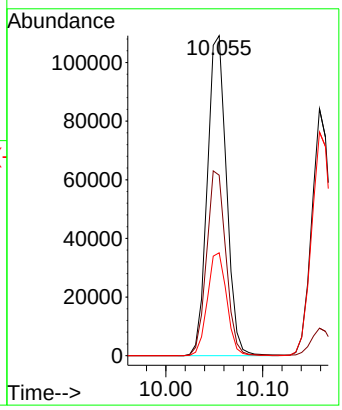




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 15054

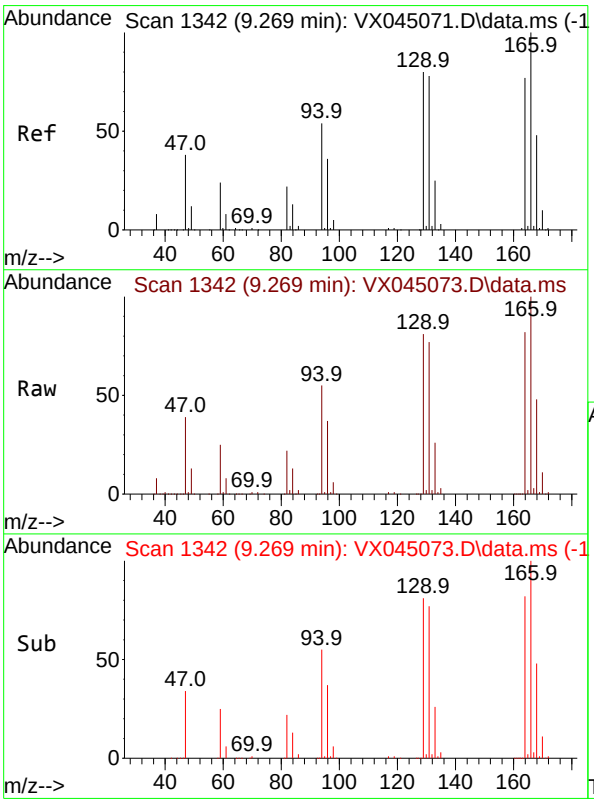
Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.3	69.5
119	32.1	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

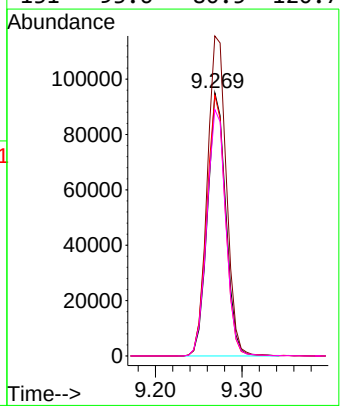
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

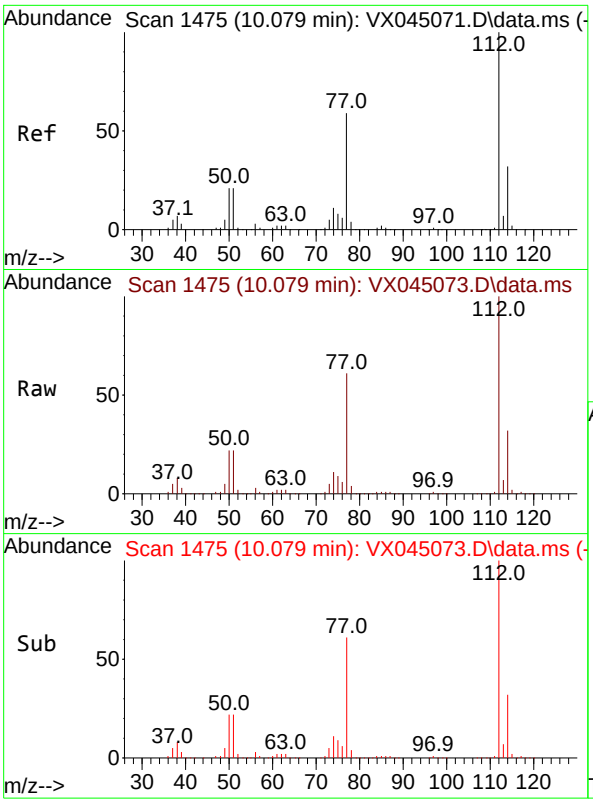


#64
Tetrachloroethene
Concen: 145.906 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:164 Resp: 139536

Ion	Ratio	Lower	Upper
164	100		
166	121.6	103.6	155.4
129	99.0	82.7	124.1
131	93.6	80.5	120.7

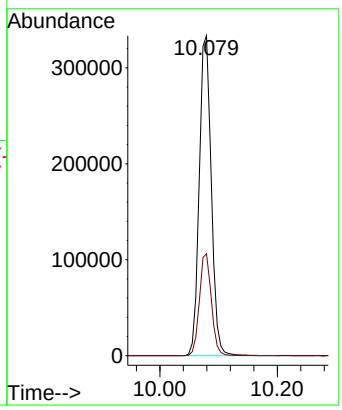




#65
Chlorobenzene
Concen: 146.096 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:112 Resp: 47211

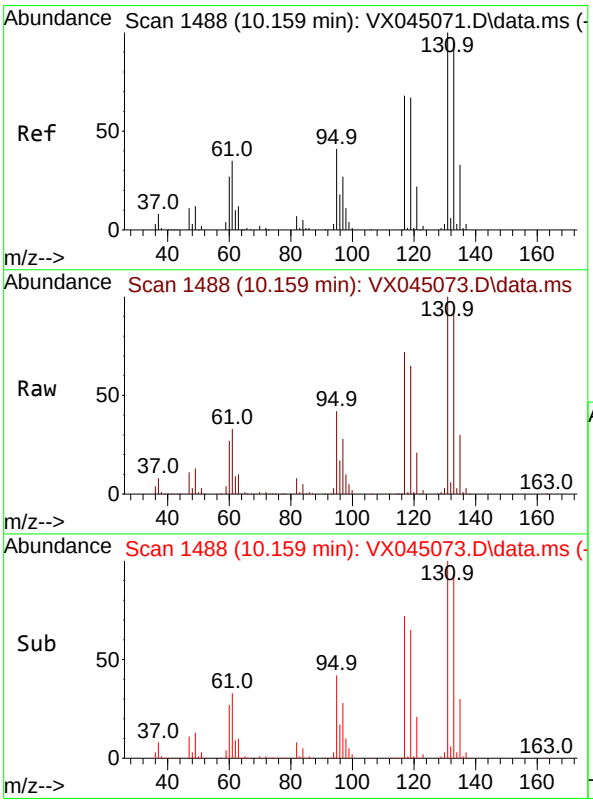
Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

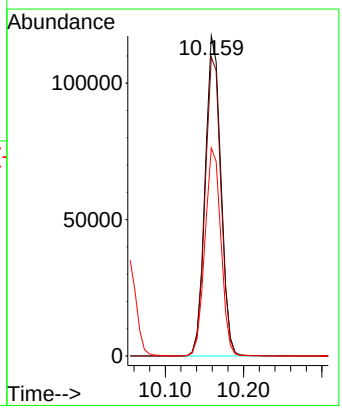
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

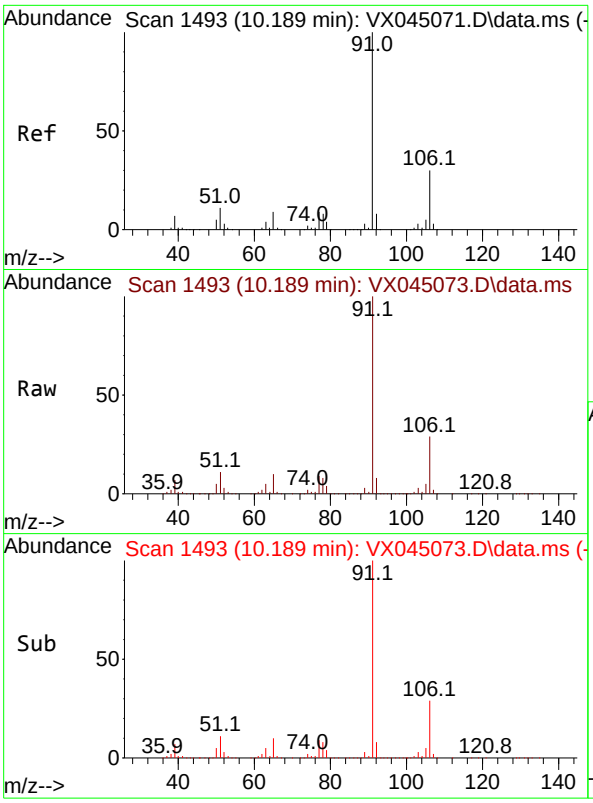


#66
1,1,1,2-Tetrachloroethane
Concen: 156.845 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:131 Resp: 163370

Ion	Ratio	Lower	Upper
131	100		
133	94.2	48.6	145.9
119	66.0	33.9	101.7





#67
Ethyl Benzene
Concen: 149.191 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

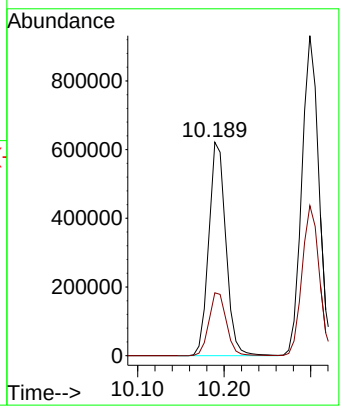
Tgt Ion: 91 Resp: 85257

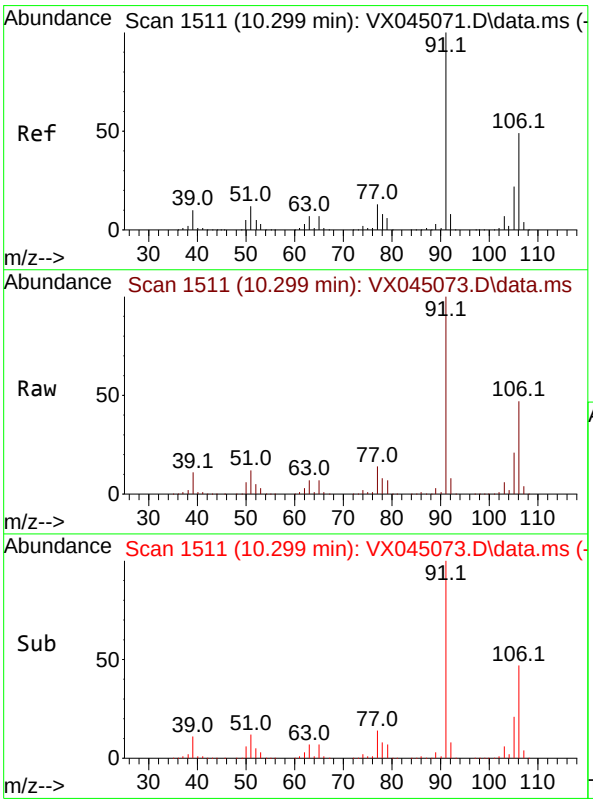
Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

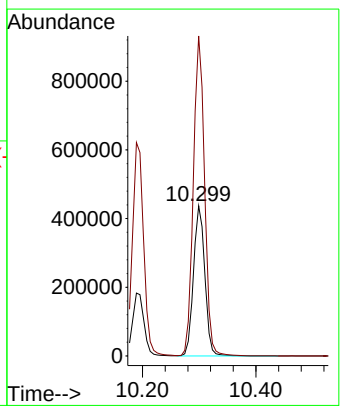


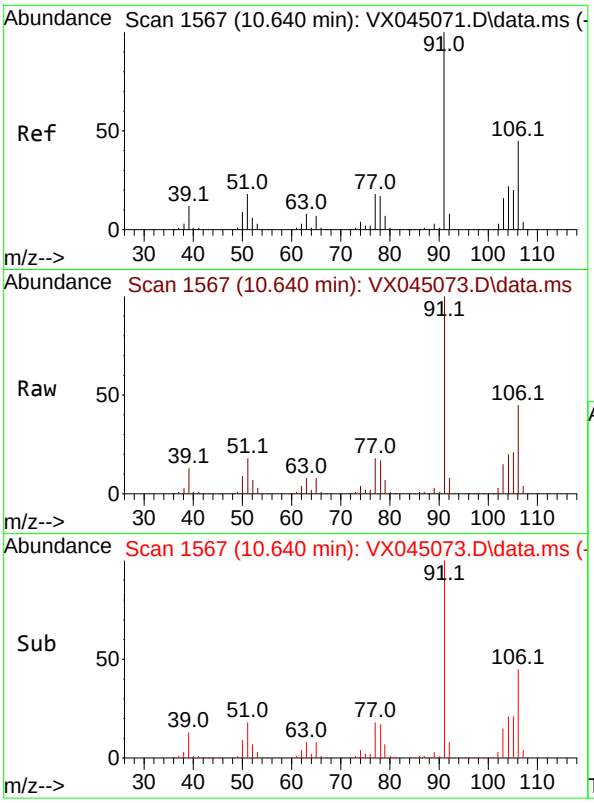


#68
m/p-Xylenes
Concen: 288.655 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:106 Resp: 607523

Ion	Ratio	Lower	Upper
106	100		
91	211.2	165.4	248.0

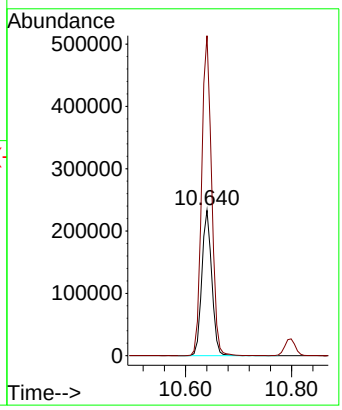




#69
o-Xylene
Concen: 143.259 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:106 Resp: 30249

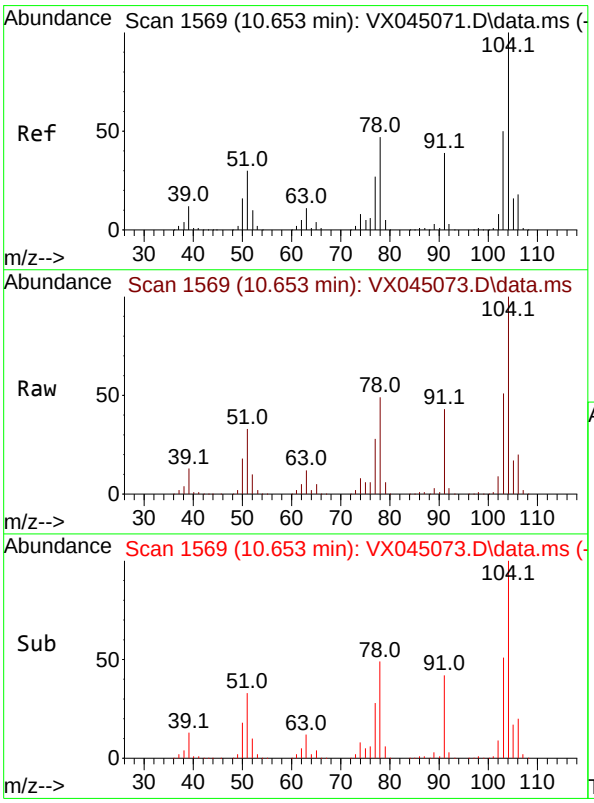
Ion	Ratio	Lower	Upper
106	100		
91	221.3	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

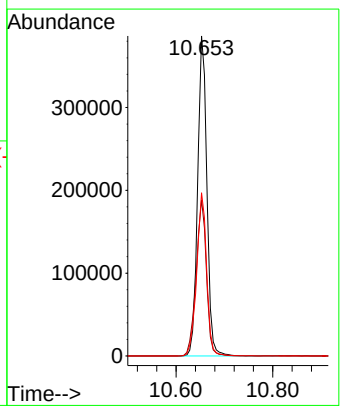
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

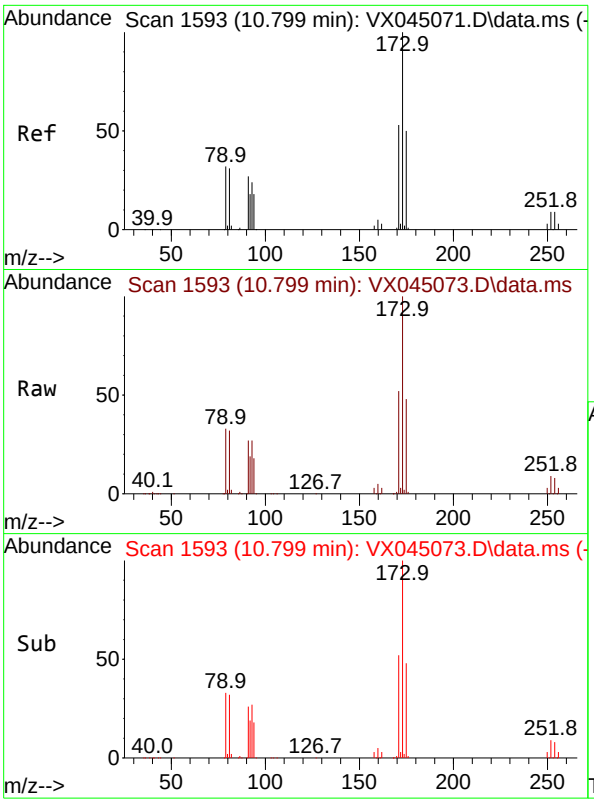


#70
Styrene
Concen: 150.979 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:104 Resp: 512379

Ion	Ratio	Lower	Upper
104	100		
78	54.4	42.2	63.4
103	54.8	43.8	65.8

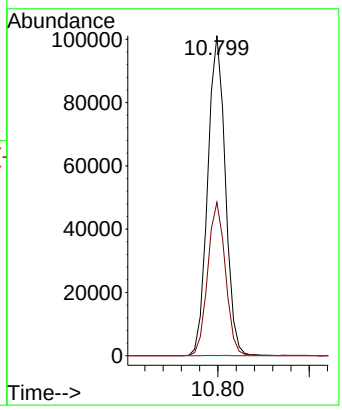




#71
Bromoform
Concen: 174.808 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:173 Resp: 13538

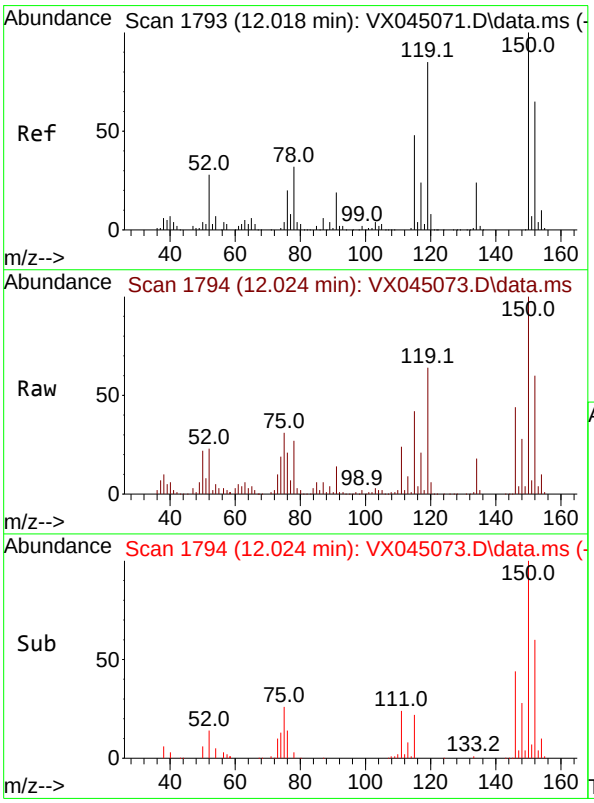
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

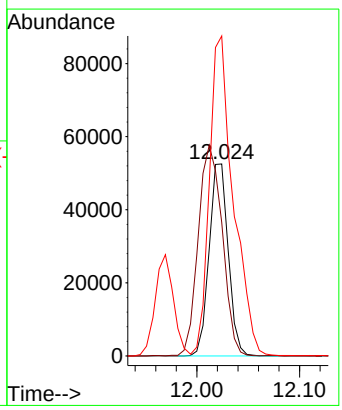
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

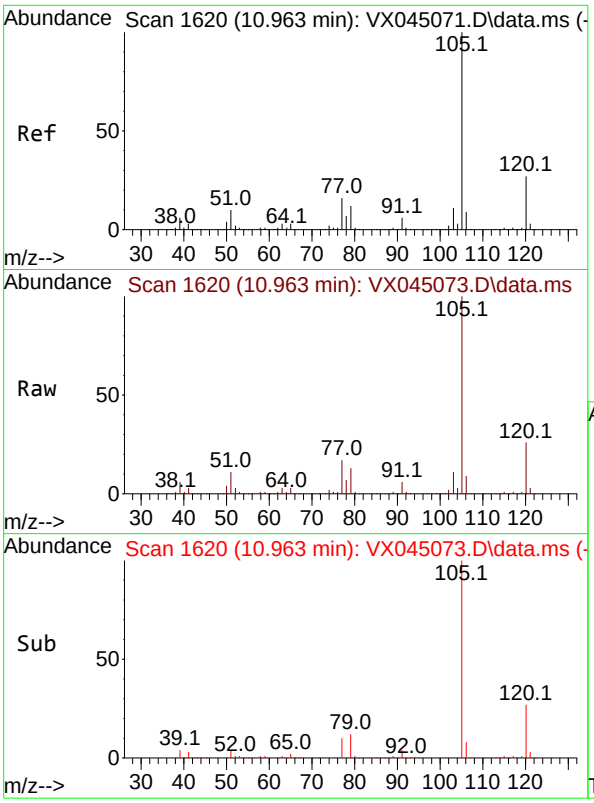


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:152 Resp: 67685

Ion	Ratio	Lower	Upper
152	100		
115	138.4	44.2	132.6#
150	208.8	0.0	349.0

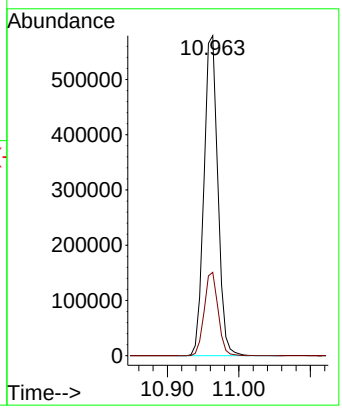




#73
Isopropylbenzene
Concen: 142.719 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 78070

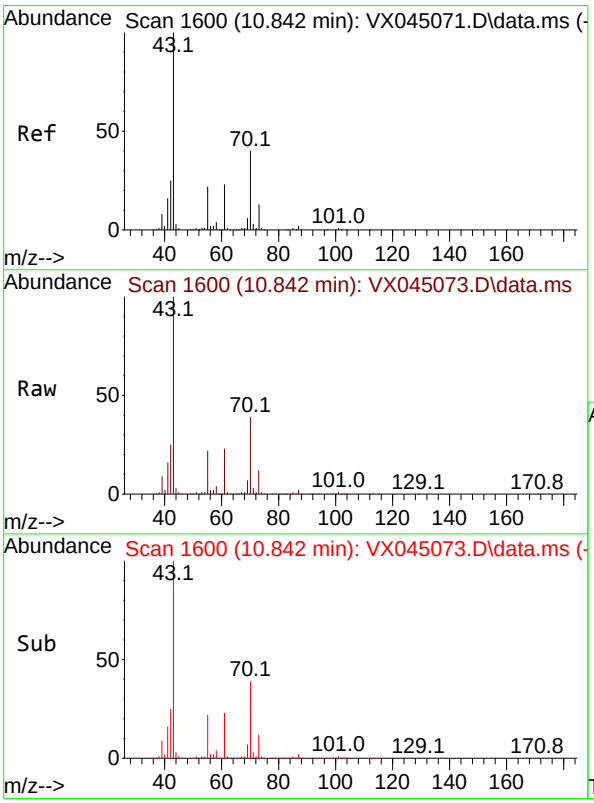
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

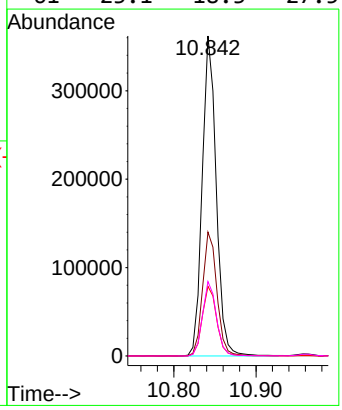
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

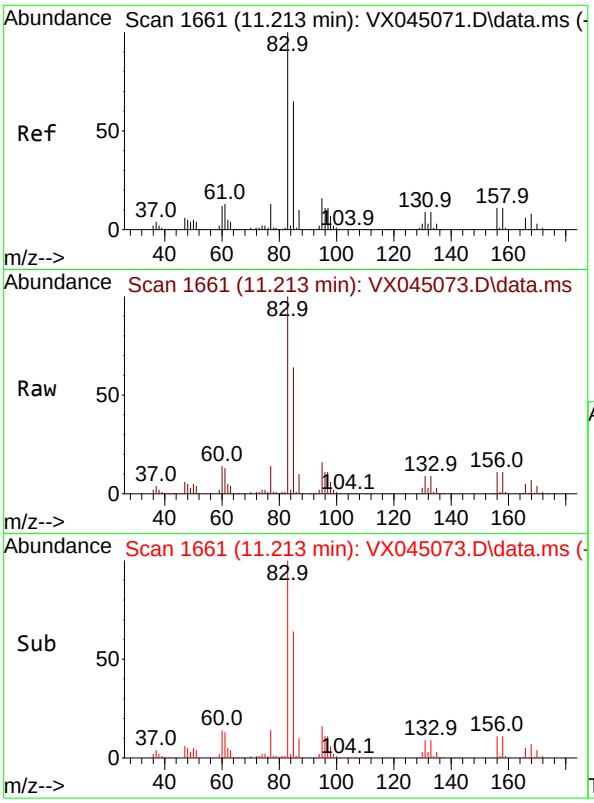


#74
N-amyl acetate
Concen: 173.042 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 429686

Ion	Ratio	Lower	Upper
43	100		
70	39.6	31.8	47.6
55	22.5	18.3	27.5
61	23.1	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 150.458 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

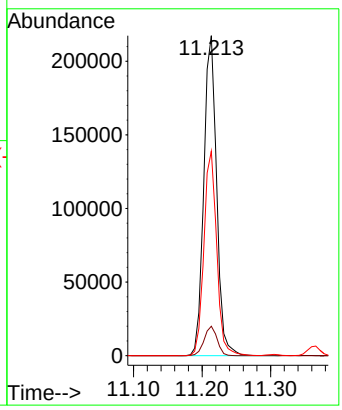
Tgt Ion: 83 Resp: 28355

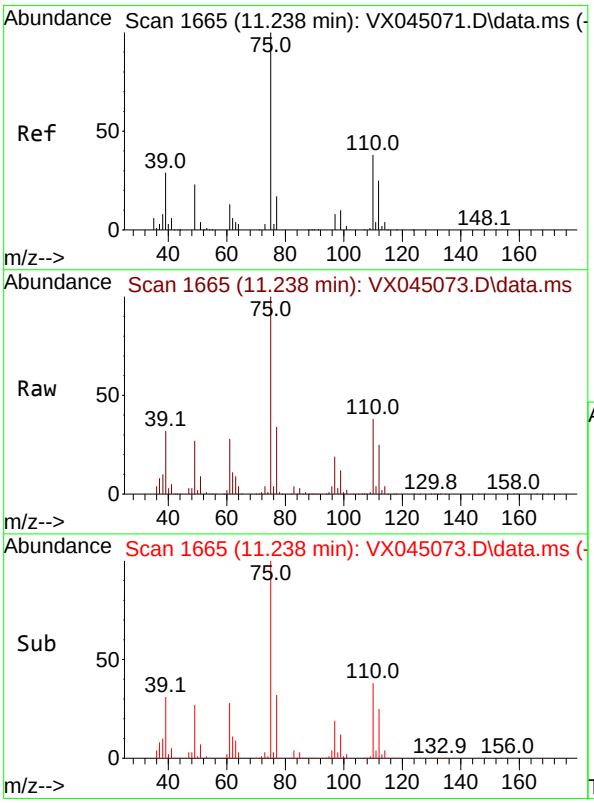
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.4
85	63.8	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

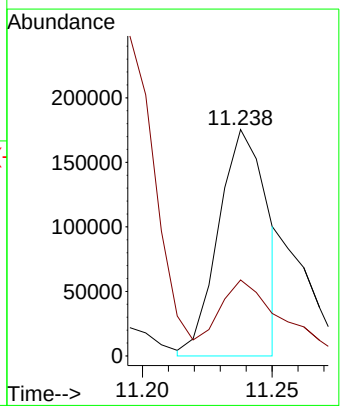


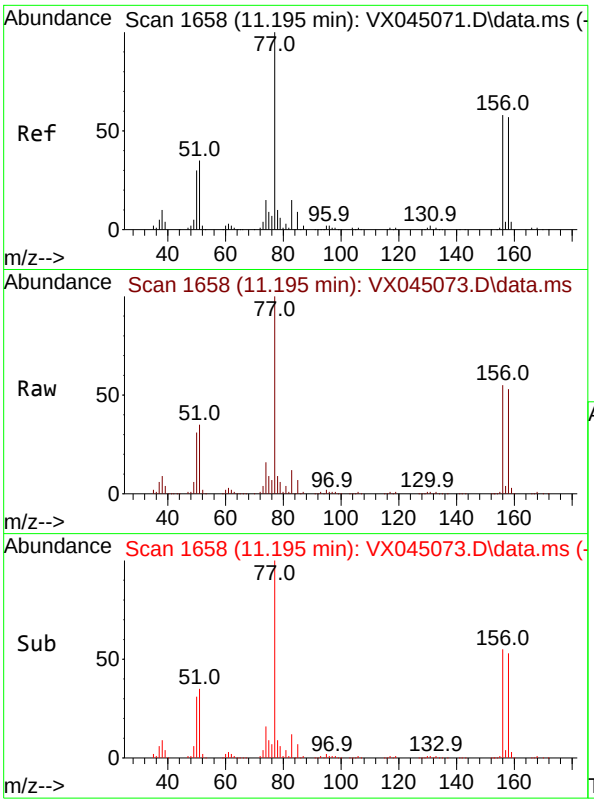


#76
1,2,3-Trichloropropane
Concen: 151.960 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 229435

Ion	Ratio	Lower	Upper
75	100		
77	43.2	20.7	62.1

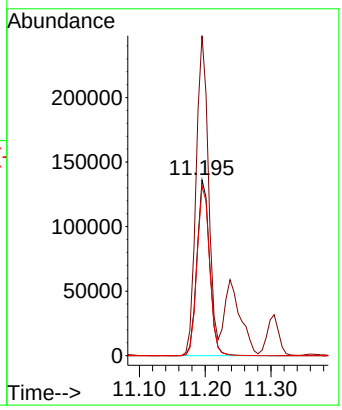




#77
Bromobenzene
Concen: 145.760 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:156 Resp: 18099

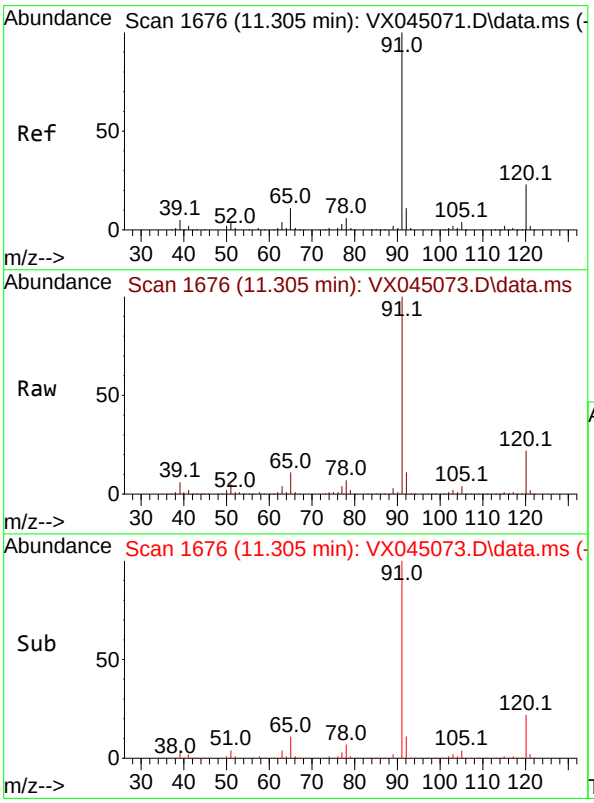
Ion	Ratio	Lower	Upper
156	100		
77	179.4	85.8	257.4
158	97.1	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

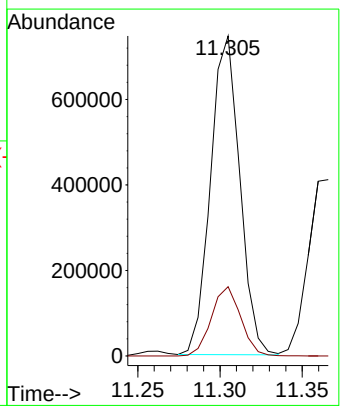
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

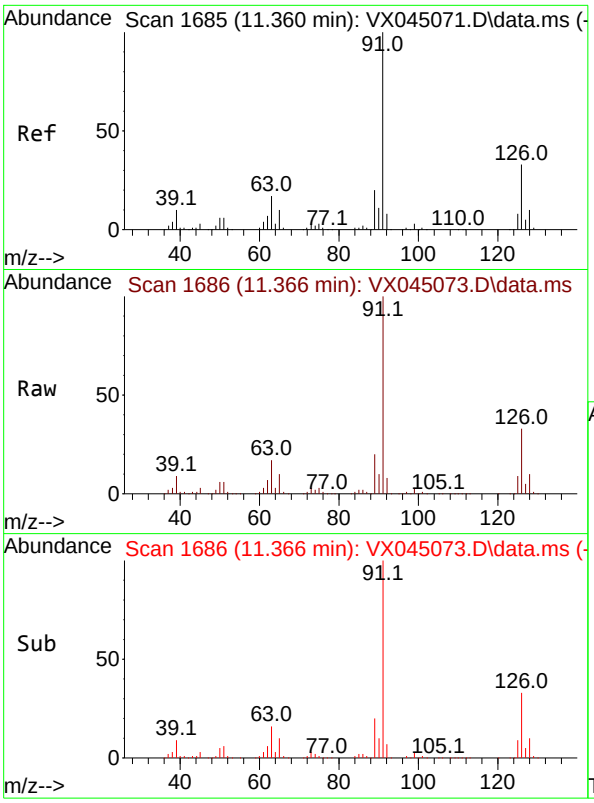


#78
n-propylbenzene
Concen: 146.395 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 923593

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6





#79
2-Chlorotoluene
Concen: 141.695 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

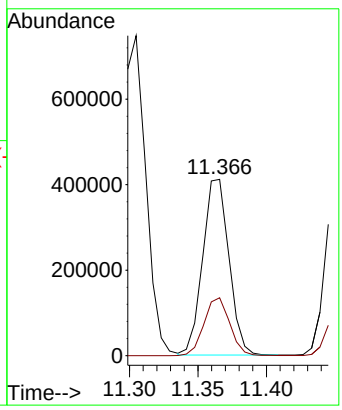
Tgt Ion: 91 Resp: 54869

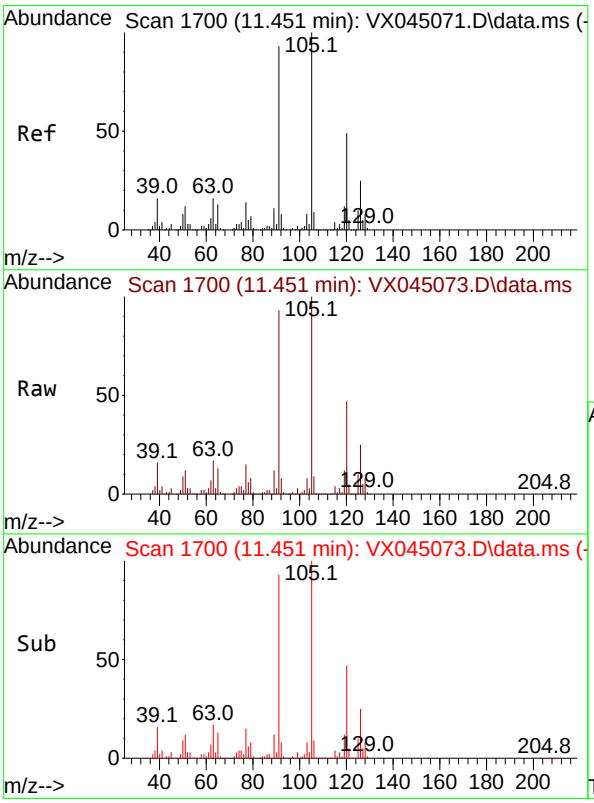
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

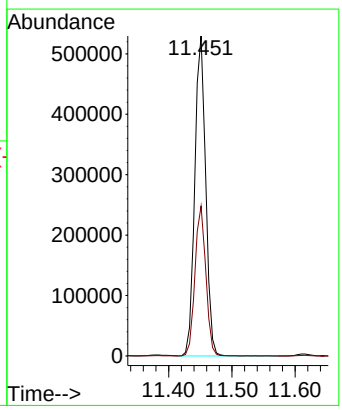


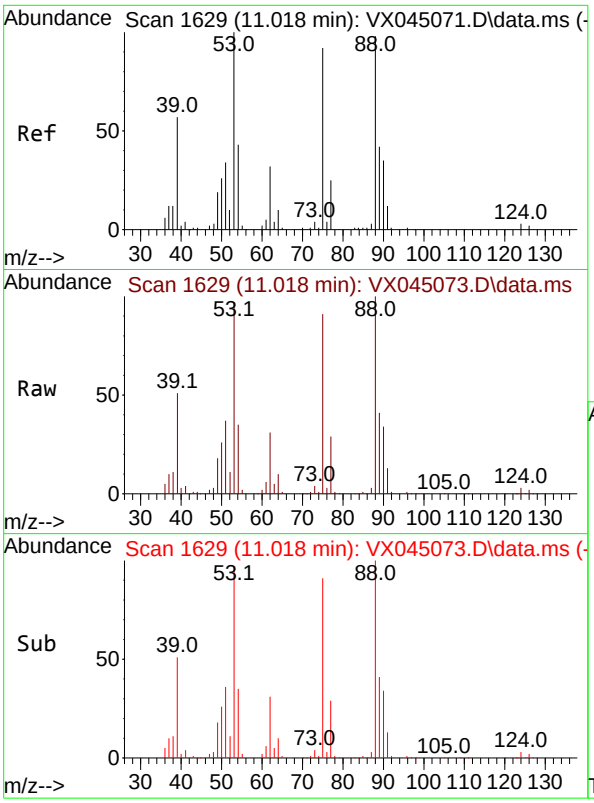


#80
1,3,5-Trimethylbenzene
Concen: 143.293 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 635832

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.1	72.2

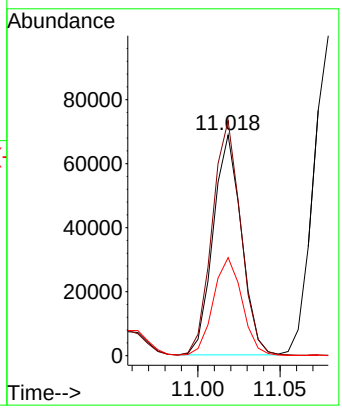




#81
trans-1,4-Dichloro-2-butene
Concen: 147.761 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 8226

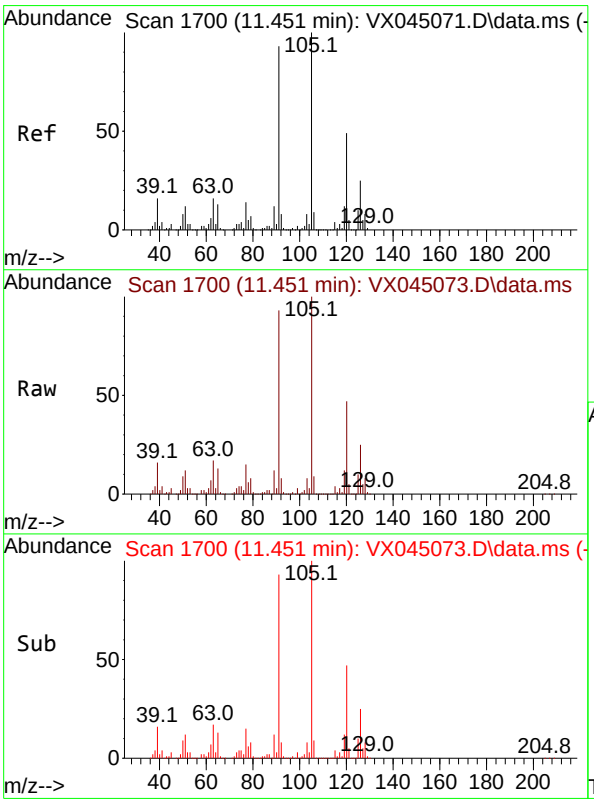
Ion	Ratio	Lower	Upper
75	100		
53	107.7	88.5	132.7
89	45.2	36.2	54.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

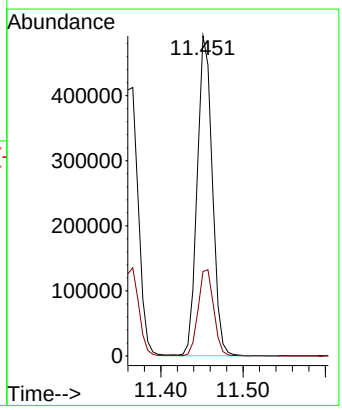
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

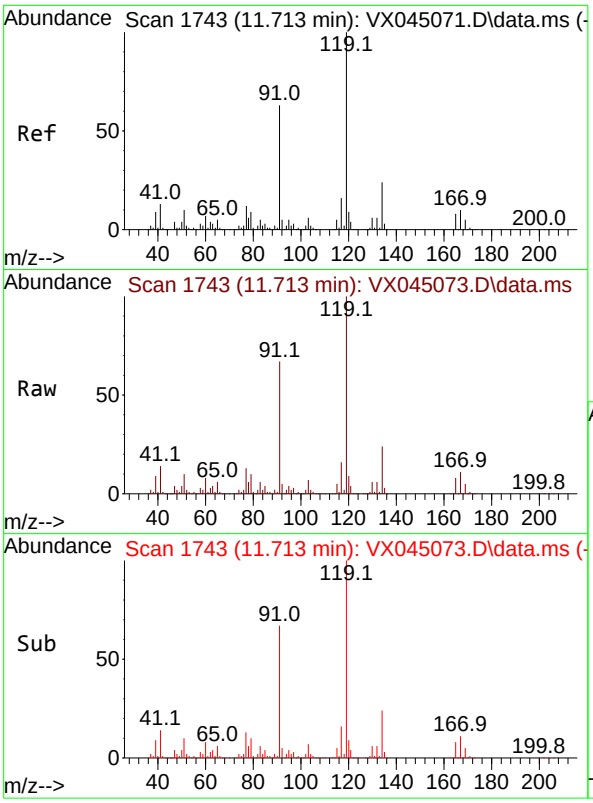


#82
4-Chlorotoluene
Concen: 146.464 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 627816

Ion	Ratio	Lower	Upper
91	100		
126	27.8	14.1	42.4





#83
tert-Butylbenzene
Concen: 142.974 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

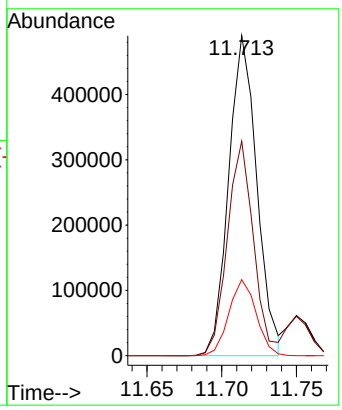
Tgt Ion:119 Resp: 64171

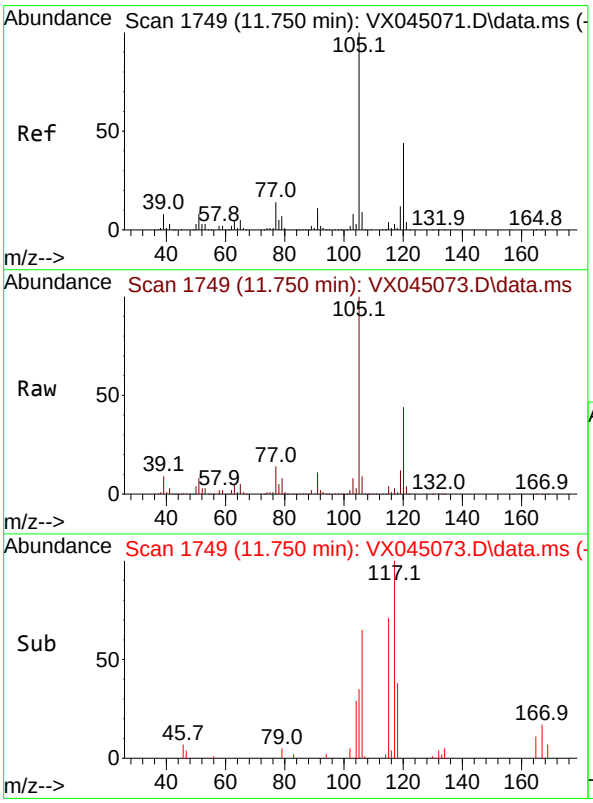
Ion	Ratio	Lower	Upper
119	100		
91	62.5	30.7	92.1
134	23.0	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

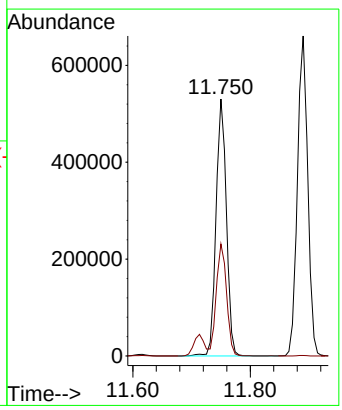


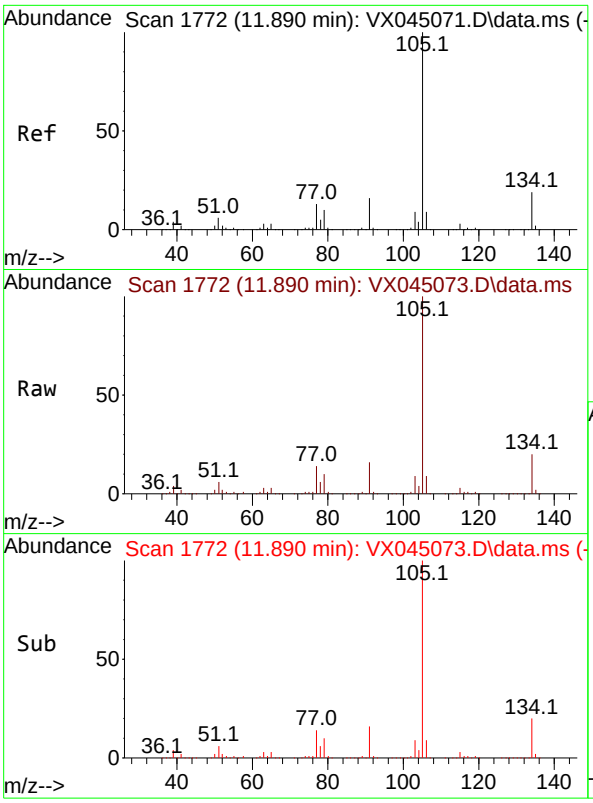


#84
1,2,4-Trimethylbenzene
Concen: 148.135 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 647248

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

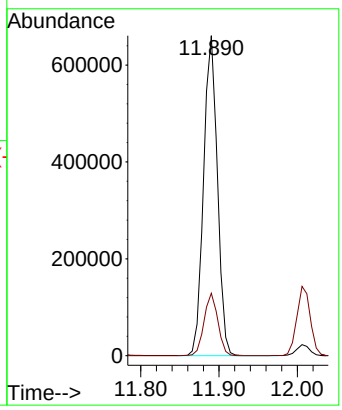




#85
sec-Butylbenzene
Concen: 145.383 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 80771

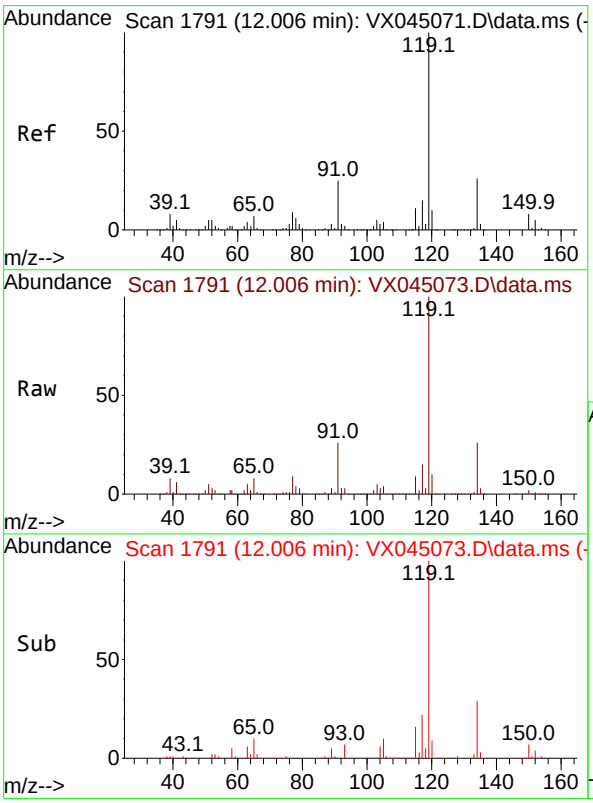
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

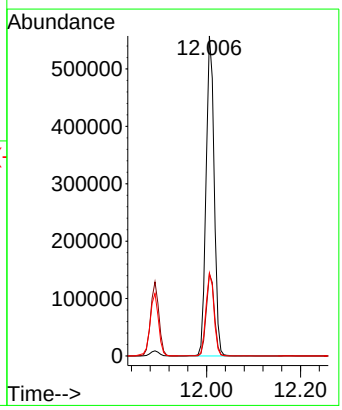
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

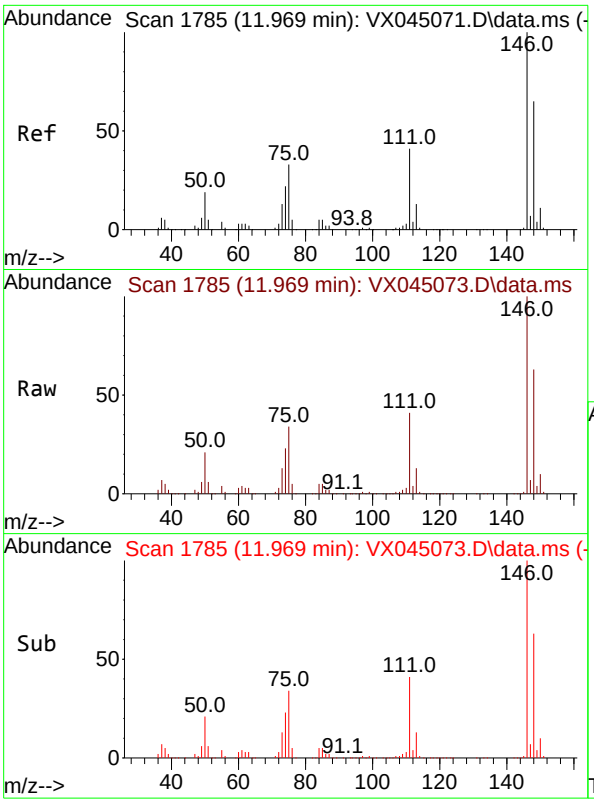


#86
p-Isopropyltoluene
Concen: 149.075 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:119 Resp: 664916

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	25.8	12.7	38.0

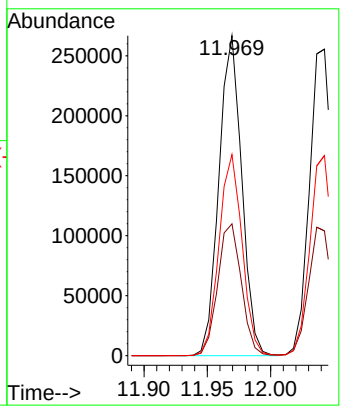




#87
1,3-Dichlorobenzene
Concen: 147.488 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:146 Resp: 33475

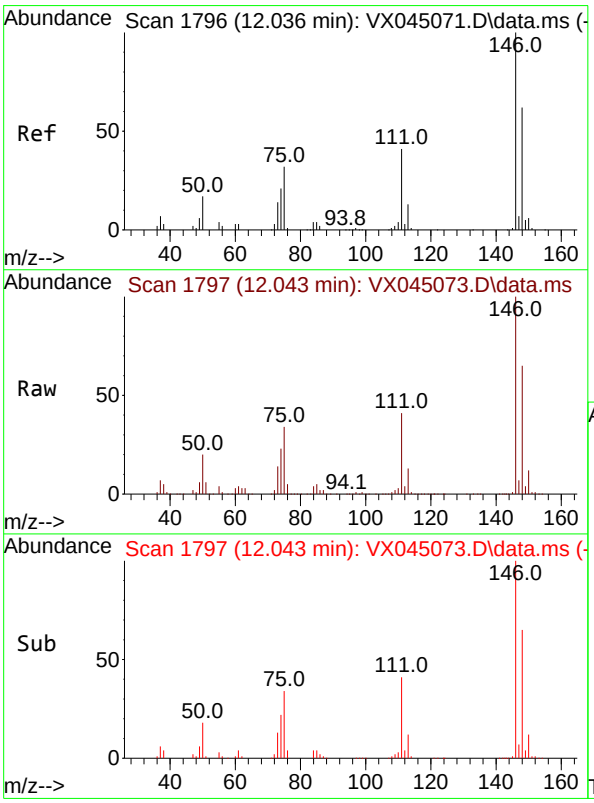
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.1	63.4
148	63.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

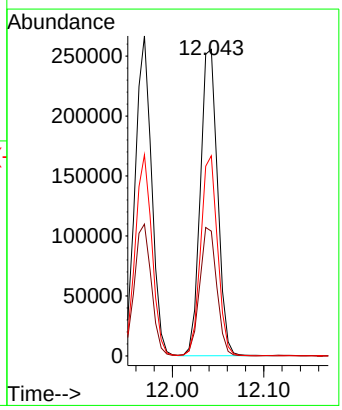
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

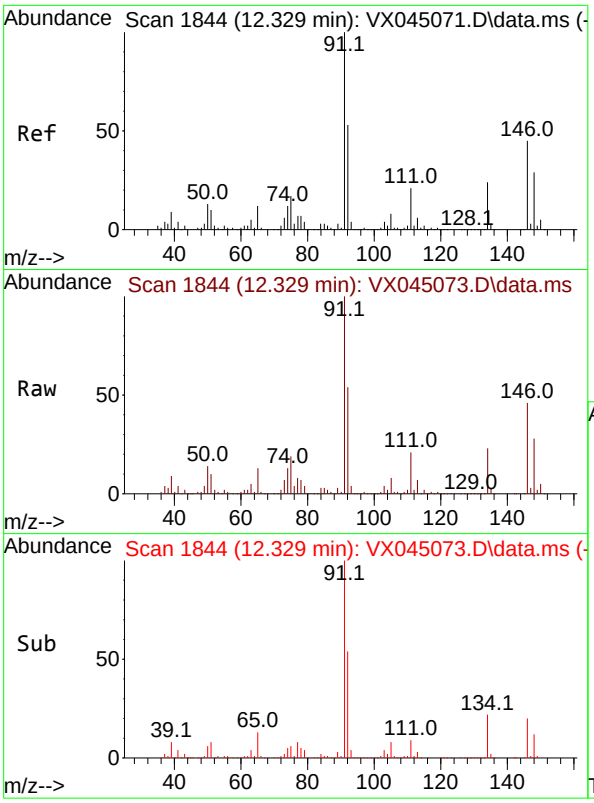


#88
1,4-Dichlorobenzene
Concen: 145.189 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:146 Resp: 333594

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.2	60.5
148	64.0	31.9	95.9

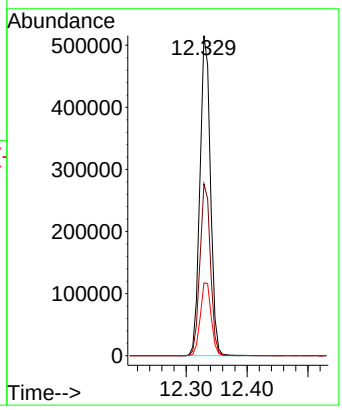




#89
n-Butylbenzene
Concen: 158.324 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 62075

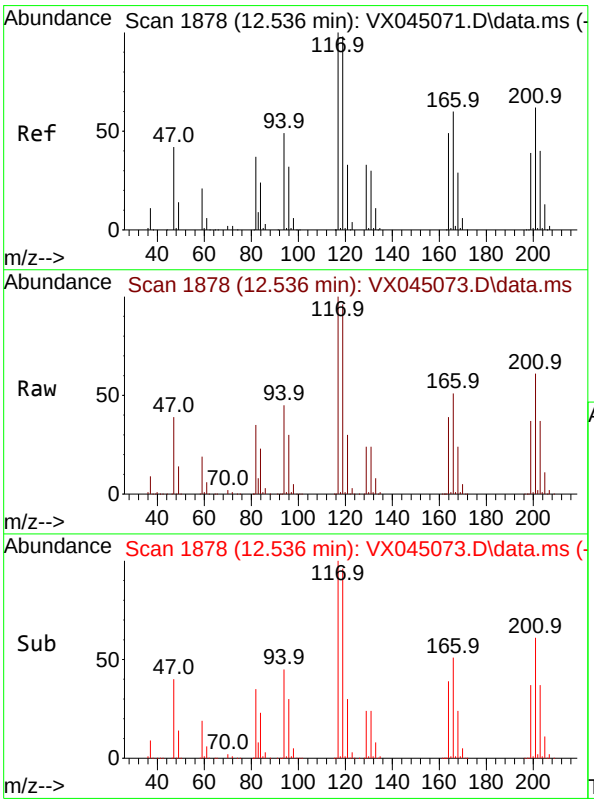
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	23.6	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

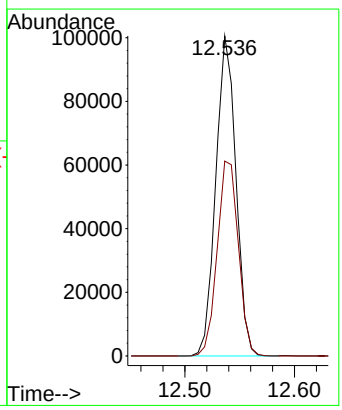
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

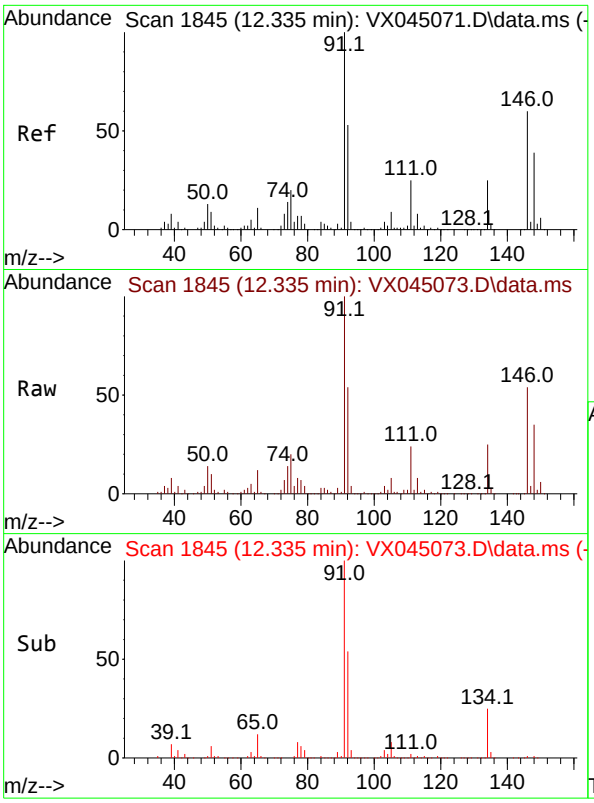


#90
Hexachloroethane
Concen: 154.554 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 128582

Ion	Ratio	Lower	Upper
117	100		
201	64.2	31.9	95.9

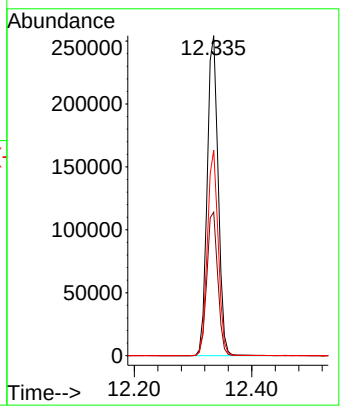




#91
1,2-Dichlorobenzene
Concen: 147.436 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:146 Resp: 32931

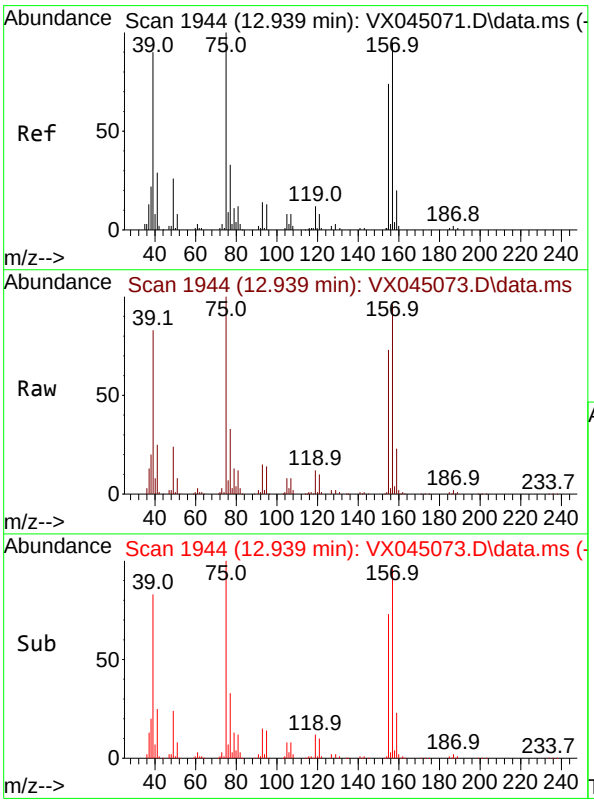
Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.6	65.0
148	63.4	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

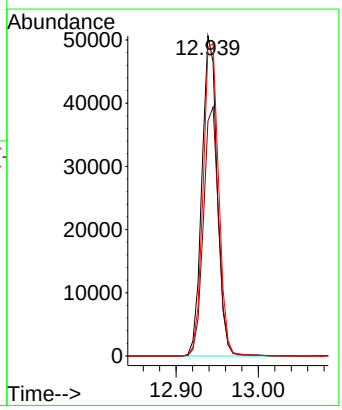
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

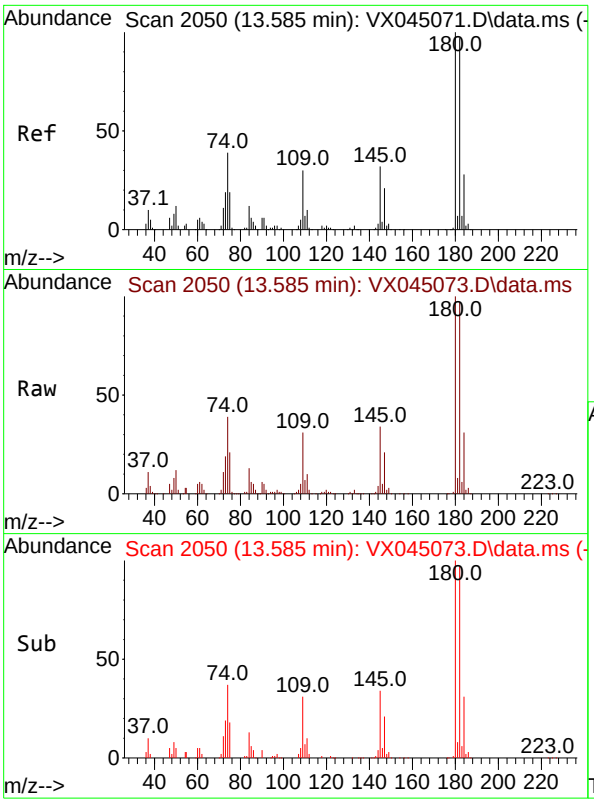


#92
1,2-Dibromo-3-Chloropropane
Concen: 186.240 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 64958

Ion	Ratio	Lower	Upper
75	100		
155	77.9	39.6	118.7
157	100.1	51.1	153.4

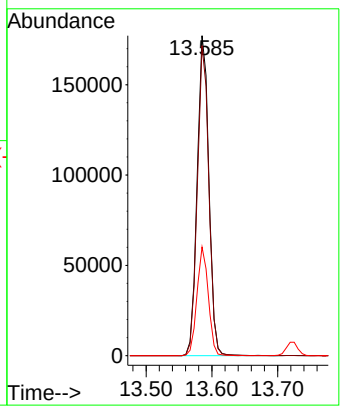




#93
1,2,4-Trichlorobenzene
Concen: 162.416 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:180 Resp: 21931

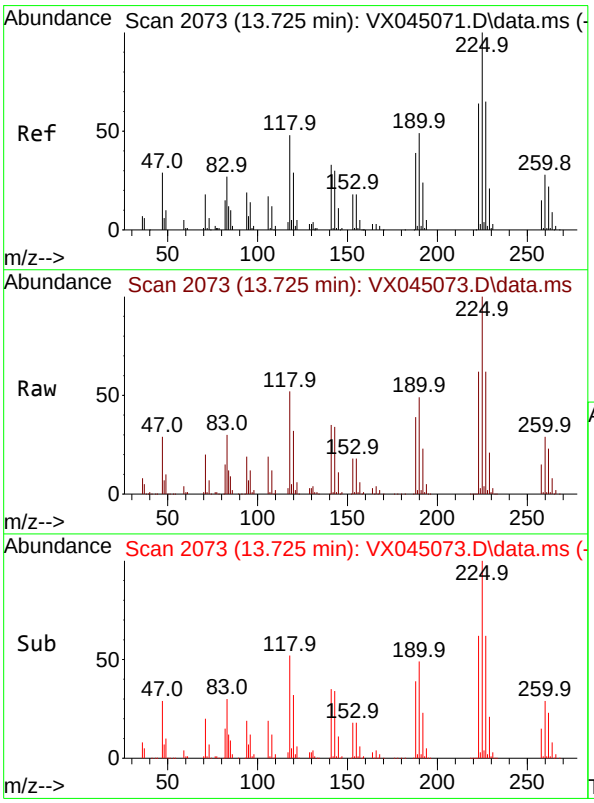
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	141.9
145	32.9	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

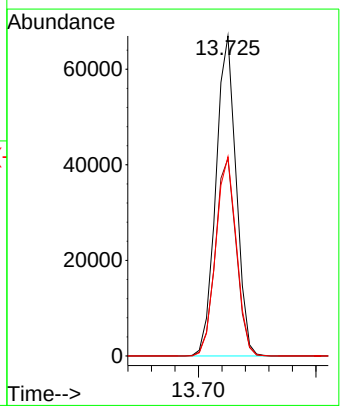
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

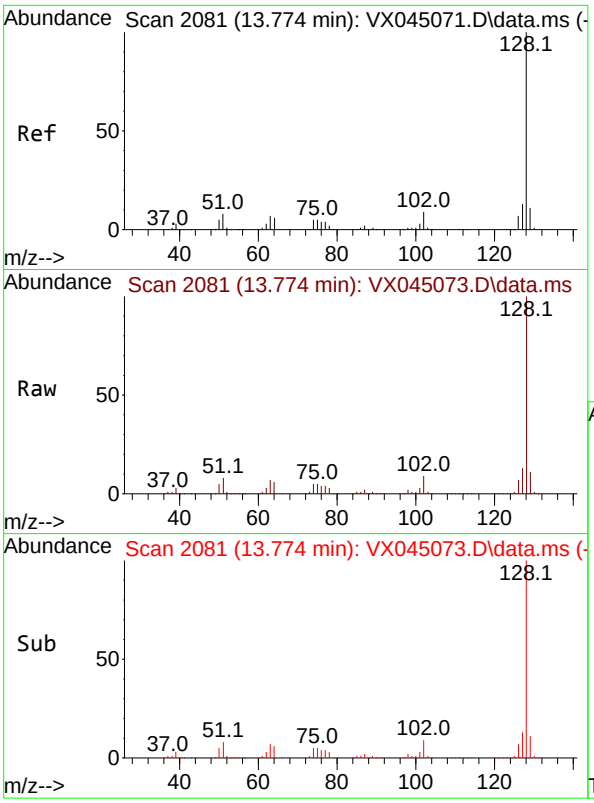


#94
Hexachlorobutadiene
Concen: 149.034 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:225 Resp: 80241

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.7
227	63.4	31.4	94.0

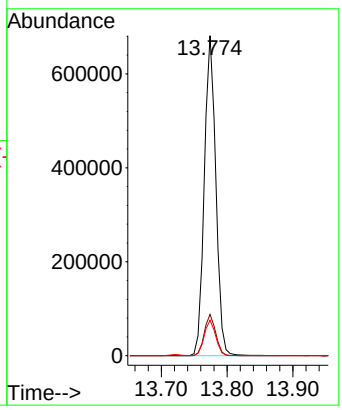




#95
Naphthalene
Concen: 168.538 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:128 Resp: 82894

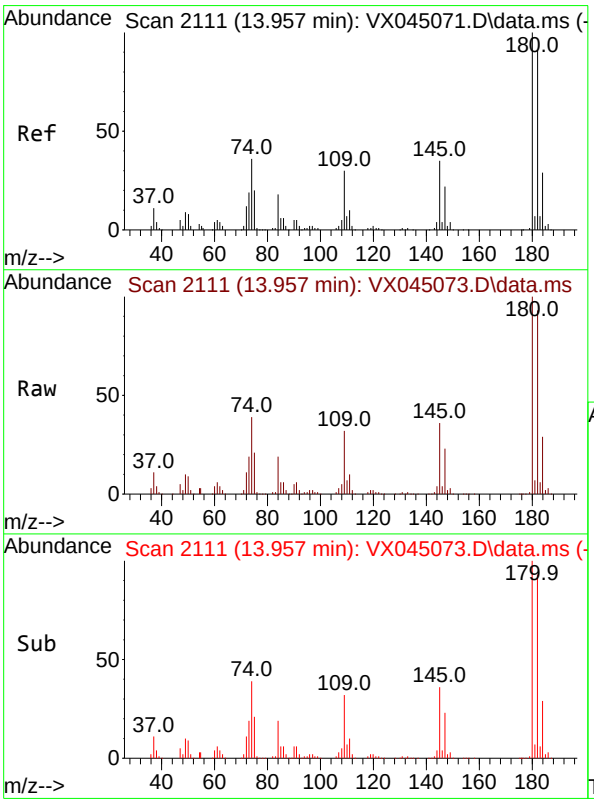
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	11.1	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

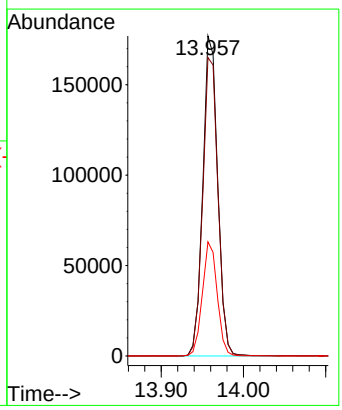
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 162.727 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:180 Resp: 222608

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.5	142.6
145	35.5	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	101603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	184964	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157797	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69357	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	81288	50.297	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.600%			
35) Dibromofluoromethane	5.385	113	62880	50.841	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.680%			
50) Toluene-d8	8.647	98	225823	50.364	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.720%			
62) 4-Bromofluorobenzene	11.079	95	73162	49.240	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	61303	47.933	ug/l	95
3) Chloromethane	1.306	50	76216	48.696	ug/l	94
4) Vinyl Chloride	1.373	62	76901	49.529	ug/l	97
5) Bromomethane	1.593	94	28193	46.190	ug/l	97
6) Chloroethane	1.660	64	30042	41.948	ug/l	99
7) Trichlorofluoromethane	1.867	101	101886	49.569	ug/l	98
8) Diethyl Ether	2.136	74	39113	48.651	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	59477	50.367	ug/l	100
10) Methyl Iodide	2.440	142	74585	50.541	ug/l	98
11) Tert butyl alcohol	2.989	59	73034	238.577	ug/l	98
12) 1,1-Dichloroethene	2.306	96	61885	49.568	ug/l	98
13) Acrolein	2.239	56	95989	271.255	ug/l	99
14) Allyl chloride	2.654	41	114875	51.691	ug/l	98
15) Acrylonitrile	3.068	53	209607	255.479	ug/l	99
16) Acetone	2.392	43	182119	242.877	ug/l	100
17) Carbon Disulfide	2.501	76	166105	49.952	ug/l	97
18) Methyl Acetate	2.709	43	90756	50.312	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	222475	53.114	ug/l	99
20) Methylene Chloride	2.782	84	73731	49.639	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	63117	51.172	ug/l	98
22) Diisopropyl ether	3.763	45	243860	53.955	ug/l	97
23) Vinyl Acetate	3.721	43	1064817	282.313	ug/l	100
24) 1,1-Dichloroethane	3.605	63	129666	51.190	ug/l	100
25) 2-Butanone	4.562	43	298021	264.040	ug/l	98
26) 2,2-Dichloropropane	4.471	77	58694	49.401	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	78576	51.606	ug/l	100
28) Bromochloromethane	4.891	49	60849	50.399	ug/l	100
29) Tetrahydrofuran	5.007	42	195768	258.277	ug/l	99
30) Chloroform	5.086	83	126437	50.236	ug/l	98
31) Cyclohexane	5.464	56	110288	50.158	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	103546	50.939	ug/l	99
36) 1,1-Dichloropropene	5.684	75	82722	48.770	ug/l	99
37) Ethyl Acetate	4.714	43	112768	51.596	ug/l	99
38) Carbon Tetrachloride	5.672	117	85110	49.425	ug/l	99
39) Methylcyclohexane	7.372	83	103996	51.169	ug/l	98
40) Benzene	6.031	78	274206	51.195	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	63051	53.352	ug/l		99
42) 1,2-Dichloroethane	6.080	62	97821	50.718	ug/l		100
43) Isopropyl Acetate	6.342	43	175982	54.452	ug/l		100
44) Trichloroethene	7.122	130	61530	48.924	ug/l		99
45) 1,2-Dichloropropane	7.427	63	70350	51.086	ug/l		97
46) Dibromomethane	7.580	93	50284	51.661	ug/l		99
47) Bromodichloromethane	7.817	83	97236	50.930	ug/l		99
48) Methyl methacrylate	7.689	41	87582	54.016	ug/l		100
49) 1,4-Dioxane	7.665	88	35878	1049.007	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	564197	259.995	ug/l		99
52) Toluene	8.714	92	160331	51.020	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	86584	54.247	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	98146	52.732	ug/l		95
55) 1,1,2-Trichloroethane	9.146	97	64985	50.232	ug/l		99
56) Ethyl methacrylate	9.116	69	106405	54.109	ug/l		100
57) 1,3-Dichloropropane	9.305	76	114880	51.312	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	264335	275.557	ug/l		99
59) 2-Hexanone	9.427	43	416731	265.049	ug/l		99
60) Dibromochloromethane	9.518	129	69492	51.374	ug/l		98
61) 1,2-Dibromoethane	9.610	107	66501	51.492	ug/l		99
64) Tetrachloroethene	9.268	164	50659	50.126	ug/l		96
65) Chlorobenzene	10.079	112	168885	50.580	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	56822	51.102	ug/l		98
67) Ethyl Benzene	10.189	91	300324	51.621	ug/l		100
68) m/p-Xylenes	10.299	106	220335	103.454	ug/l		99
69) o-Xylene	10.640	106	108836	50.668	ug/l		100
70) Styrene	10.652	104	181349	52.177	ug/l		100
71) Bromoform	10.799	173	44135	52.636	ug/l	#	100
73) Isopropylbenzene	10.957	105	279278	51.589	ug/l		99
74) N-amyl acetate	10.841	43	144412	56.851	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	100800	50.741	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	80618m	49.940	ug/l		
77) Bromobenzene	11.195	156	64324	50.360	ug/l		100
78) n-propylbenzene	11.305	91	319235	52.203	ug/l		99
79) 2-Chlorotoluene	11.360	91	192150	49.338	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	225622	51.544	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	23943	50.757	ug/l		99
82) 4-Chlorotoluene	11.451	91	216511	51.009	ug/l		100
83) tert-Butylbenzene	11.713	119	227357	50.552	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	228729	51.932	ug/l		100
85) sec-Butylbenzene	11.890	105	283931	52.703	ug/l		100
86) p-Isopropyltoluene	12.006	119	229894	52.803	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	114778	50.372	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	115486	50.097	ug/l		99
89) n-Butylbenzene	12.329	91	204972	54.662	ug/l		99
90) Hexachloroethane	12.536	117	40844	51.866	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	116343	50.899	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	20589	53.199	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	71368	54.834	ug/l		98
94) Hexachlorobutadiene	13.725	225	26697	50.032	ug/l		99
95) Naphthalene	13.774	128	275844	55.163	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	74211	54.049	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

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

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

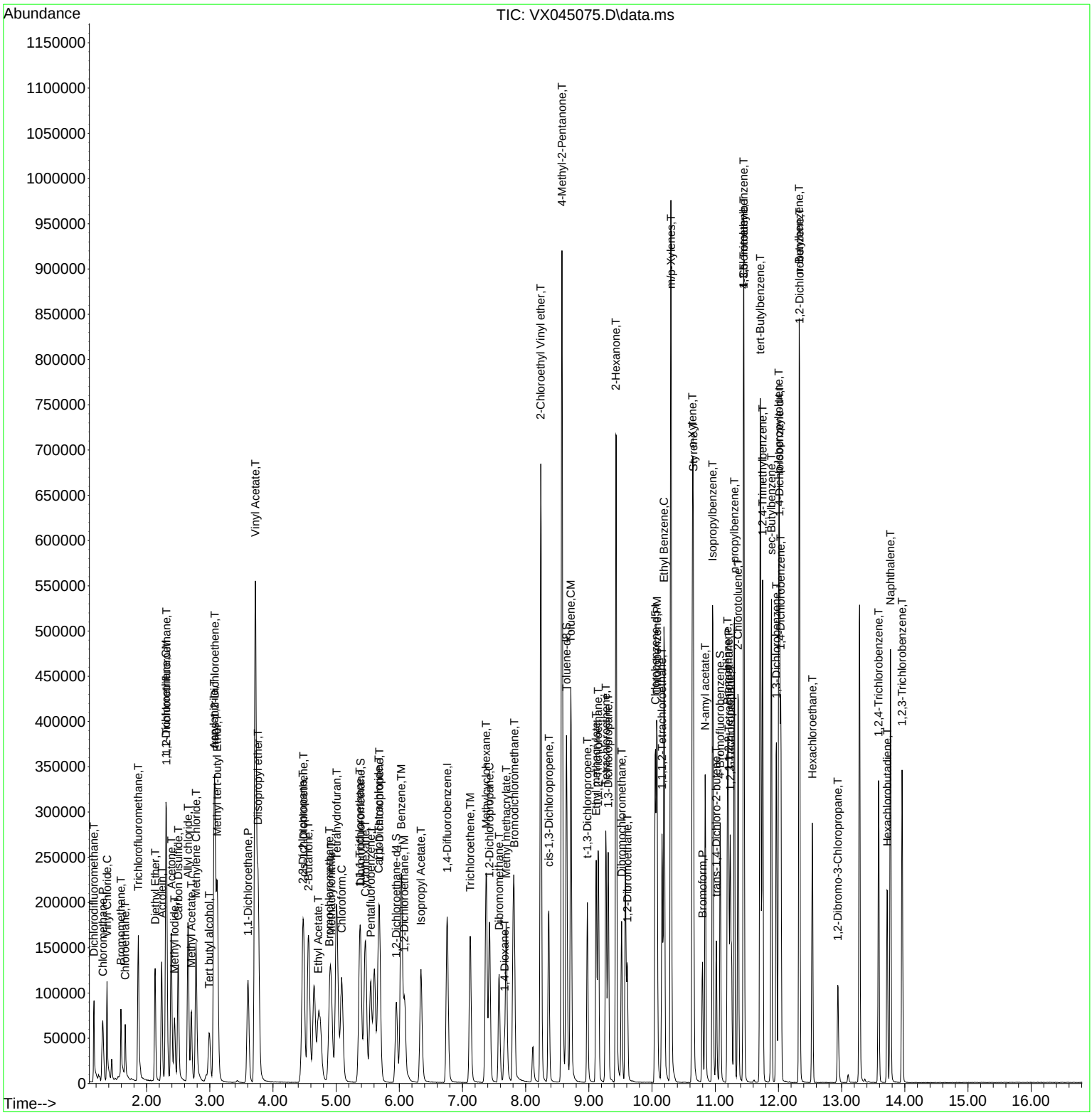
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

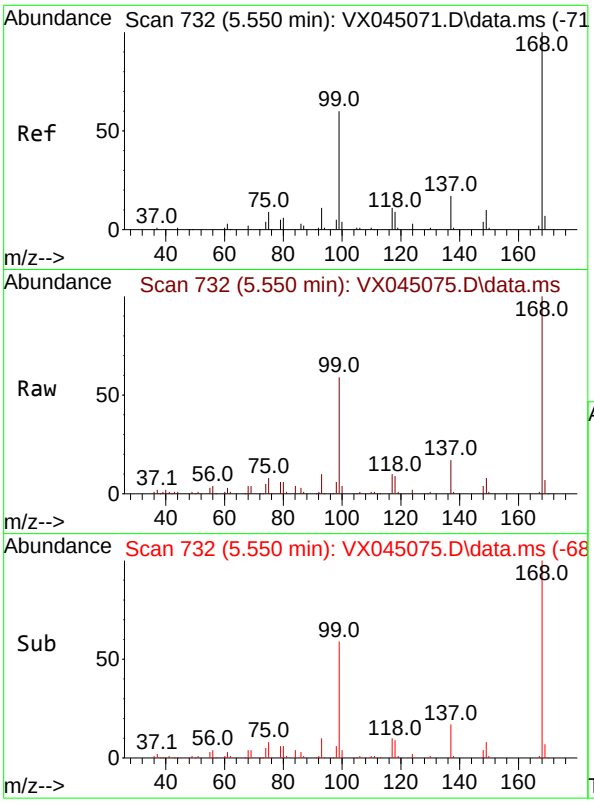
Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

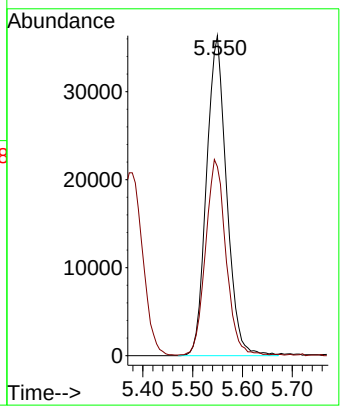




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:168 Resp: 10160

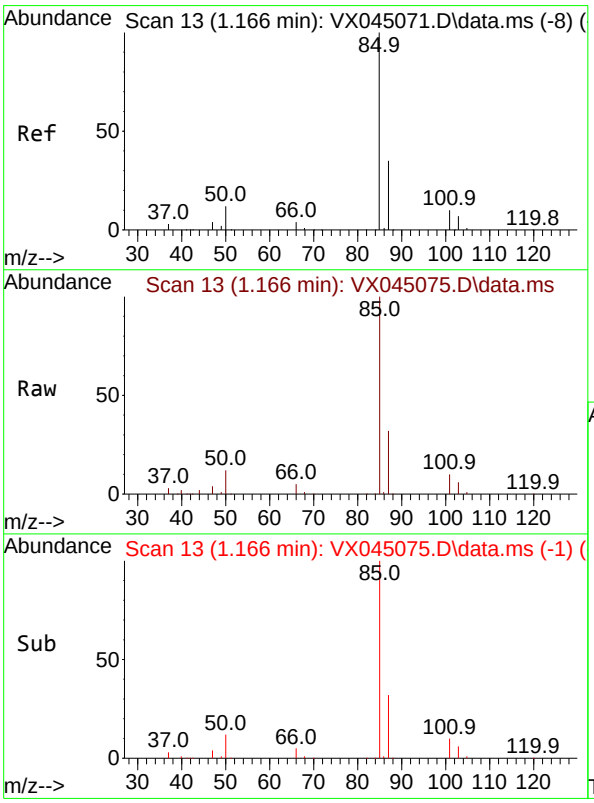
Ion	Ratio	Lower	Upper
168	100		
99	58.9	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

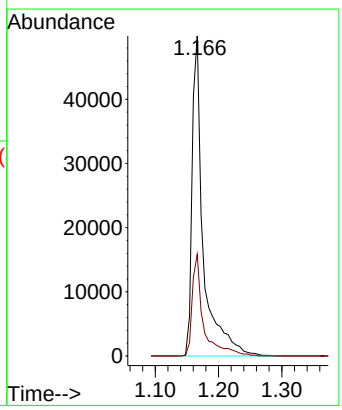
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

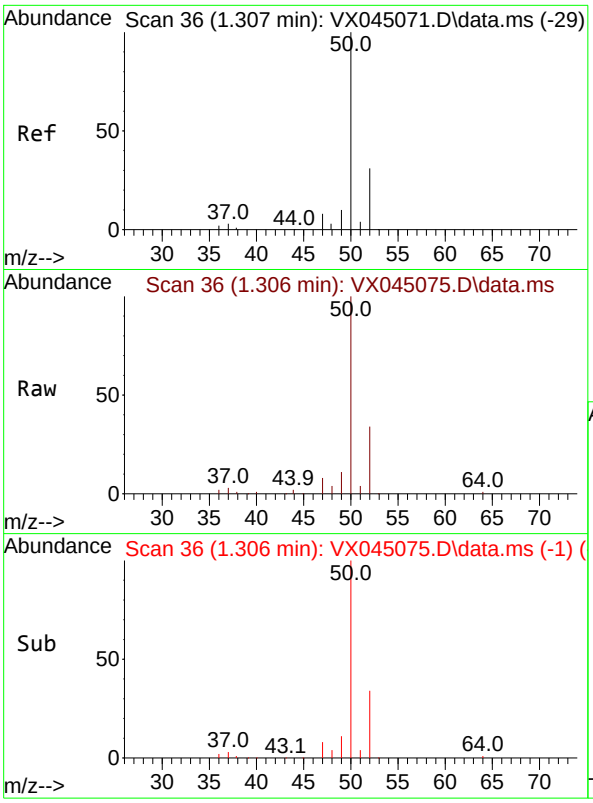


#2
Dichlorodifluoromethane
Concen: 47.933 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 85 Resp: 61303

Ion	Ratio	Lower	Upper
85	100		
87	31.8	17.4	52.3

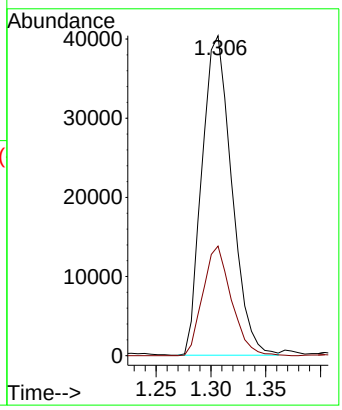




#3
Chloromethane
Concen: 48.696 ug/l
RT: 1.306 min Scan# 3(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 50 Resp: 7621(

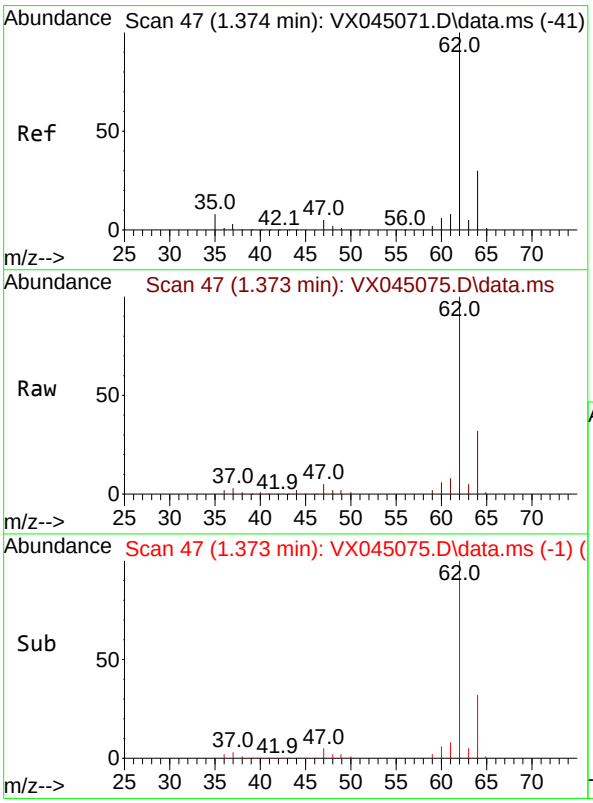
Ion	Ratio	Lower	Upper
50	100		
52	34.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

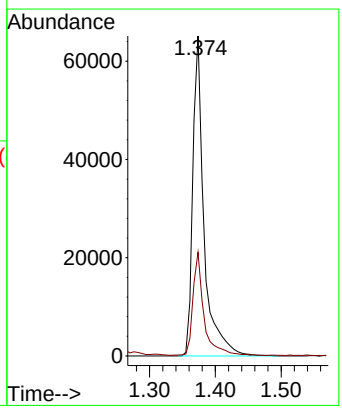
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

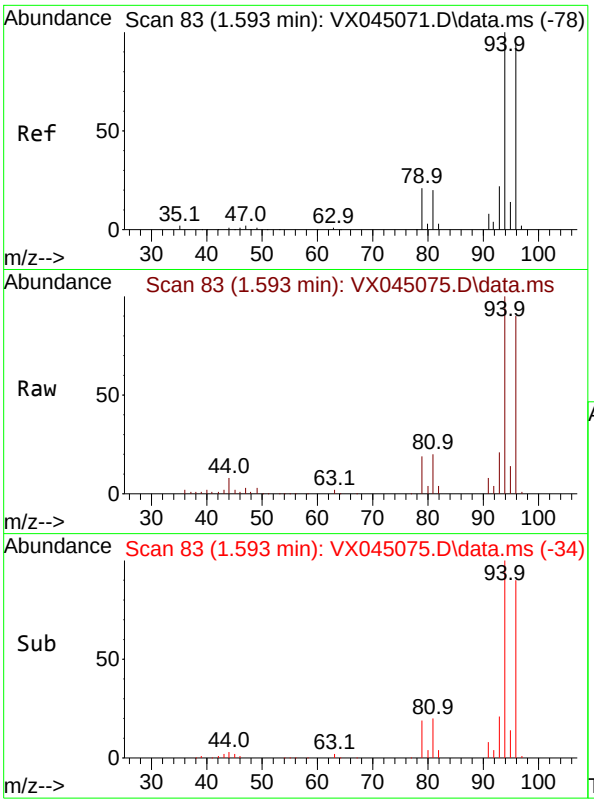


#4
Vinyl Chloride
Concen: 49.529 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 62 Resp: 76901

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.3	36.5

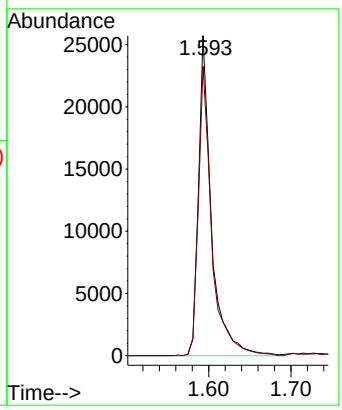




#5
Bromomethane
Concen: 46.190 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 94 Resp: 2819

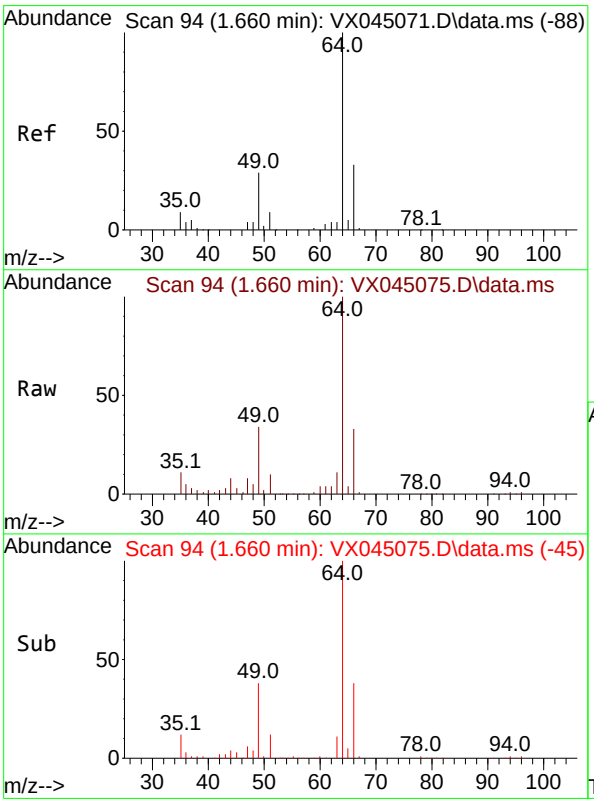
Ion	Ratio	Lower	Upper
94	100		
96	90.5	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

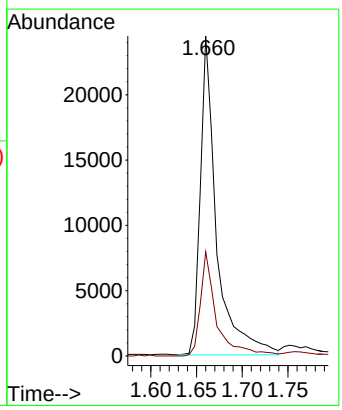
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

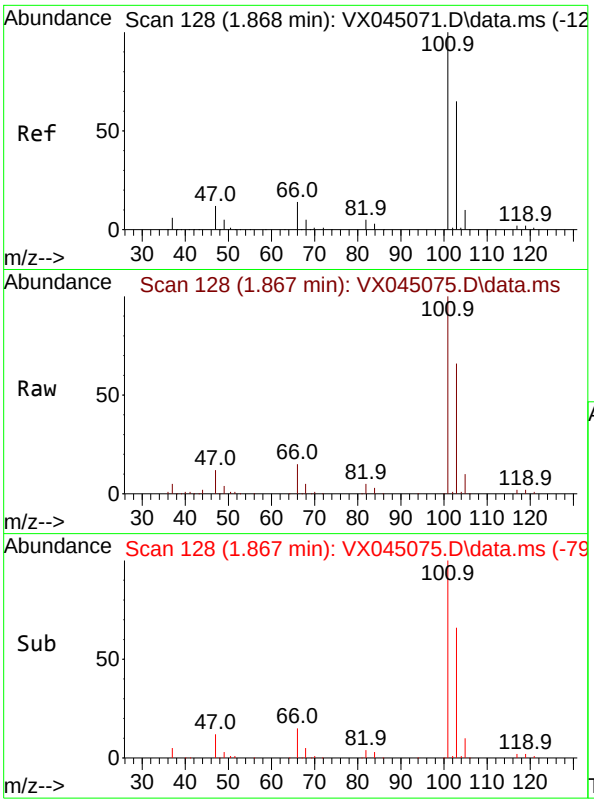


#6
Chloroethane
Concen: 41.948 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 64 Resp: 30042

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.7	40.1

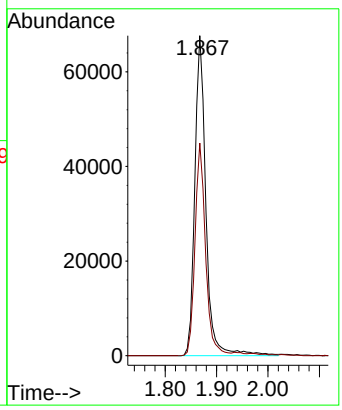




#7
Trichlorofluoromethane
Concen: 49.569 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:101 Resp: 10188

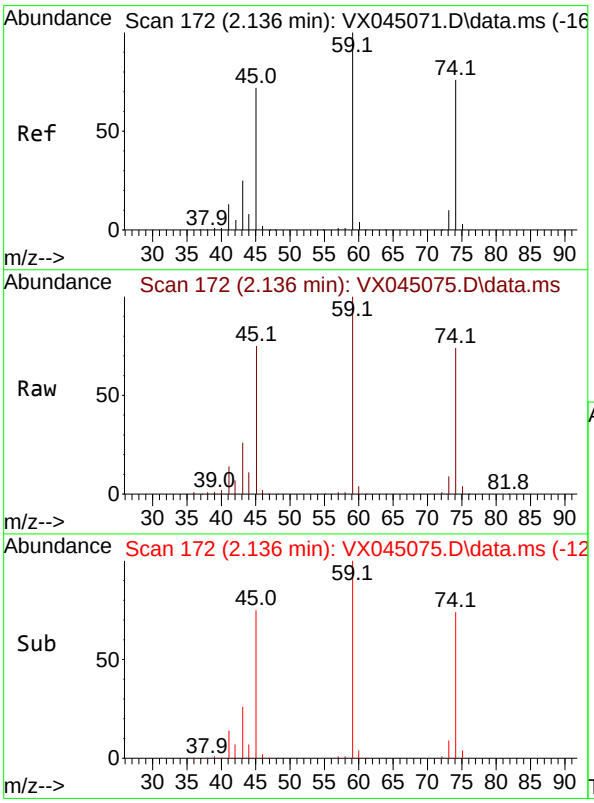
Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

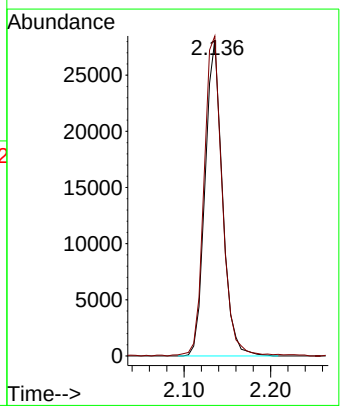
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

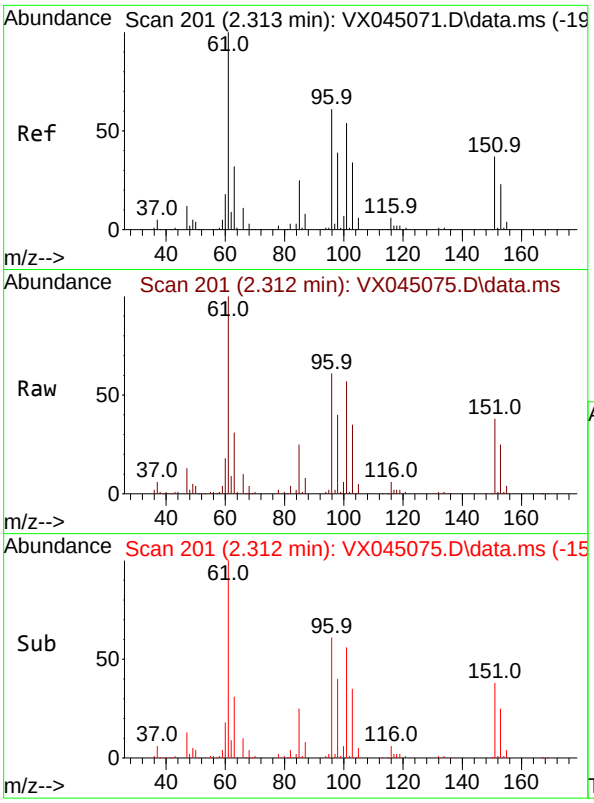


#8
Diethyl Ether
Concen: 48.651 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 74 Resp: 39113

Ion	Ratio	Lower	Upper
74	100		
45	107.2	51.5	154.5

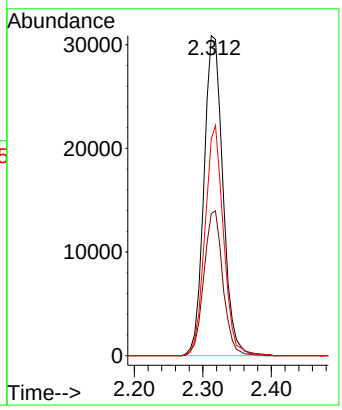




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.367 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:101 Resp: 5947

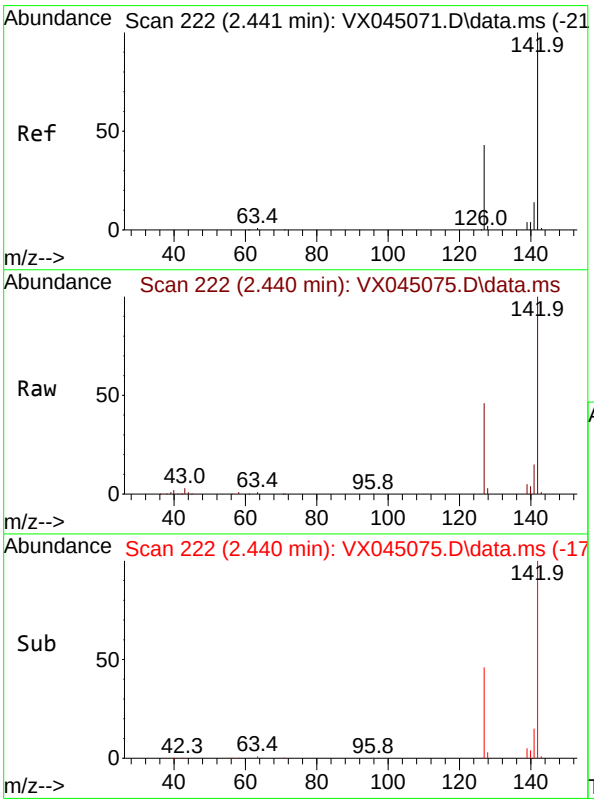
Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.2	54.4
151	70.2	56.4	84.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

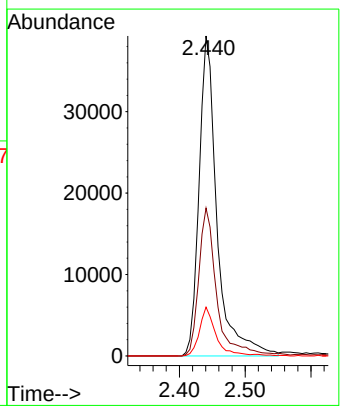
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

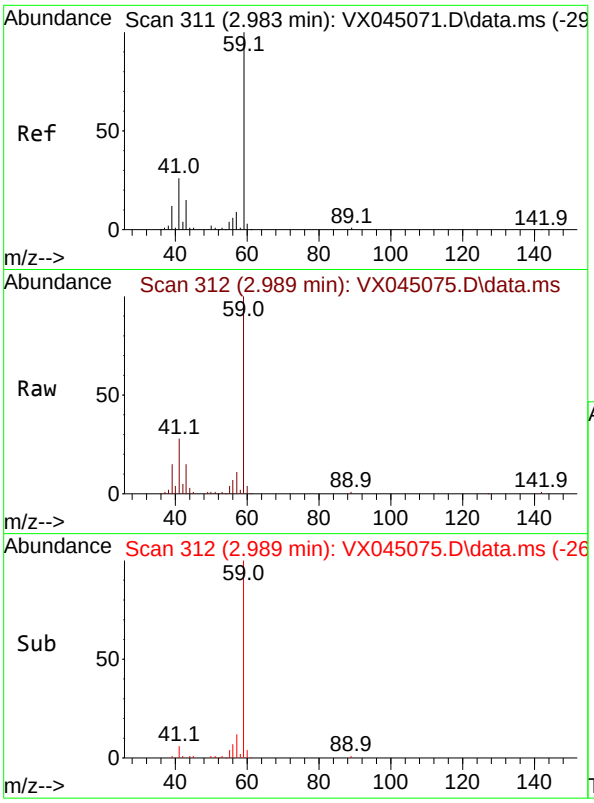


#10
Methyl Iodide
Concen: 50.541 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:142 Resp: 74585

Ion	Ratio	Lower	Upper
142	100		
127	46.3	35.4	53.2
141	14.3	11.6	17.4

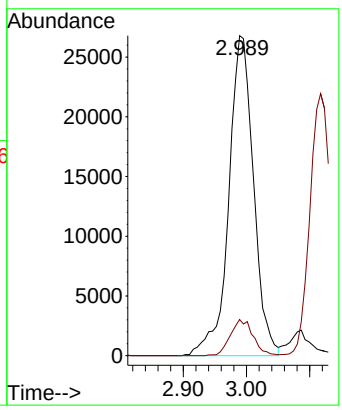




#11
Tert butyl alcohol
Concen: 238.577 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 59 Resp: 7303

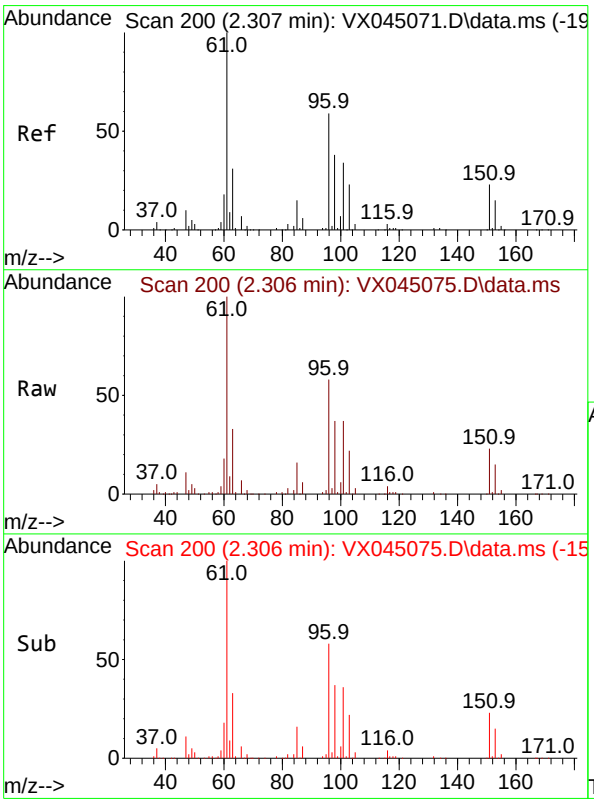
Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

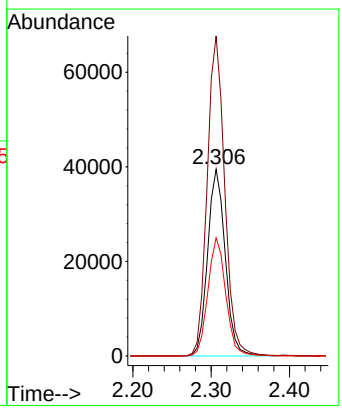
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

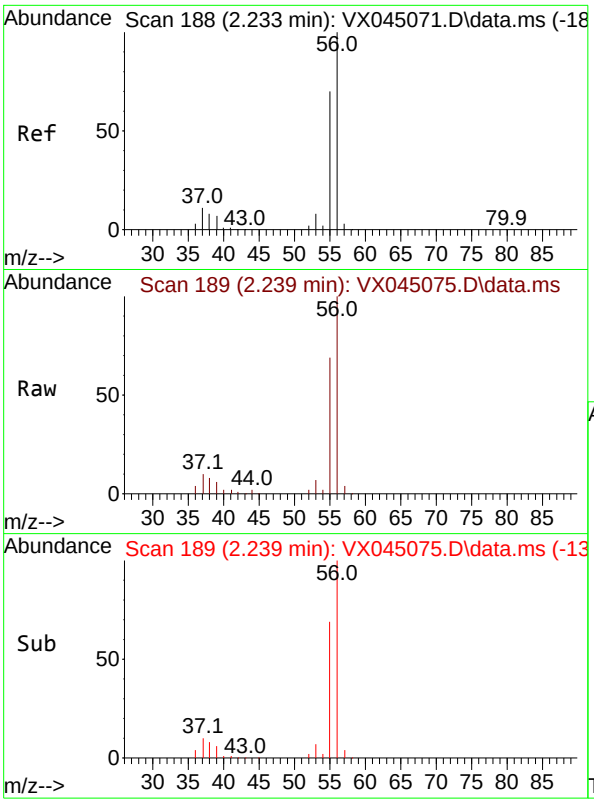


#12
1,1-Dichloroethene
Concen: 49.568 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 96 Resp: 61885

Ion	Ratio	Lower	Upper
96	100		
61	171.3	134.6	202.0
98	63.2	51.0	76.6

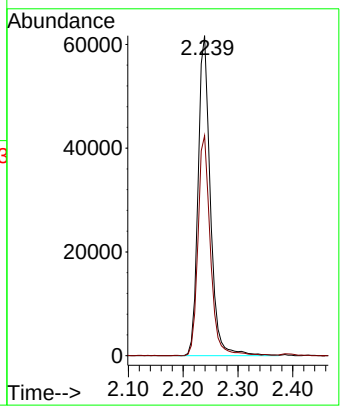




#13
Acrolein
Concen: 271.255 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 56 Resp: 9598

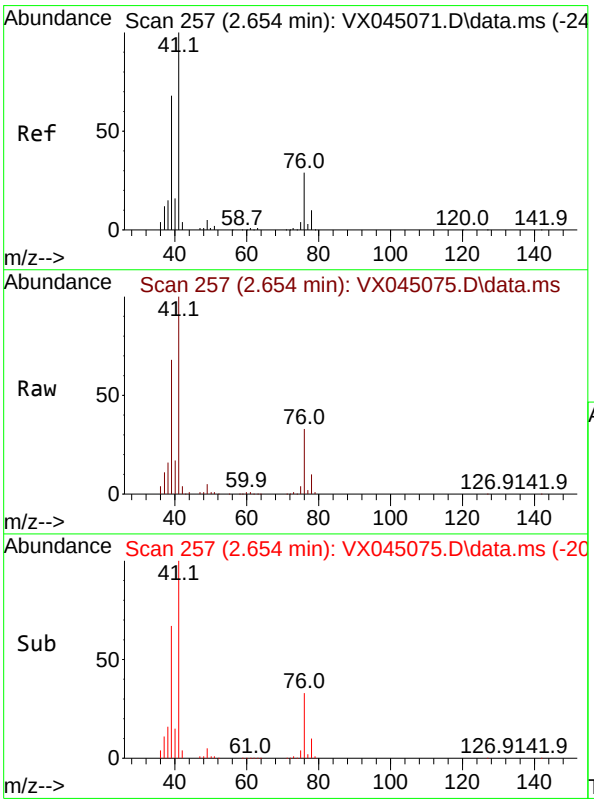
Ion	Ratio	Lower	Upper
56	100		
55	69.5	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

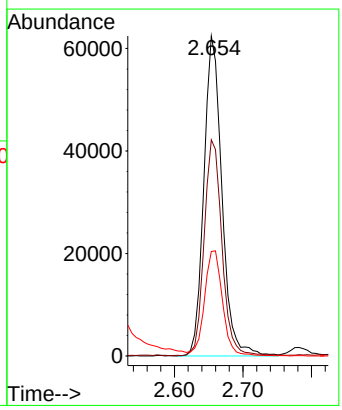
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

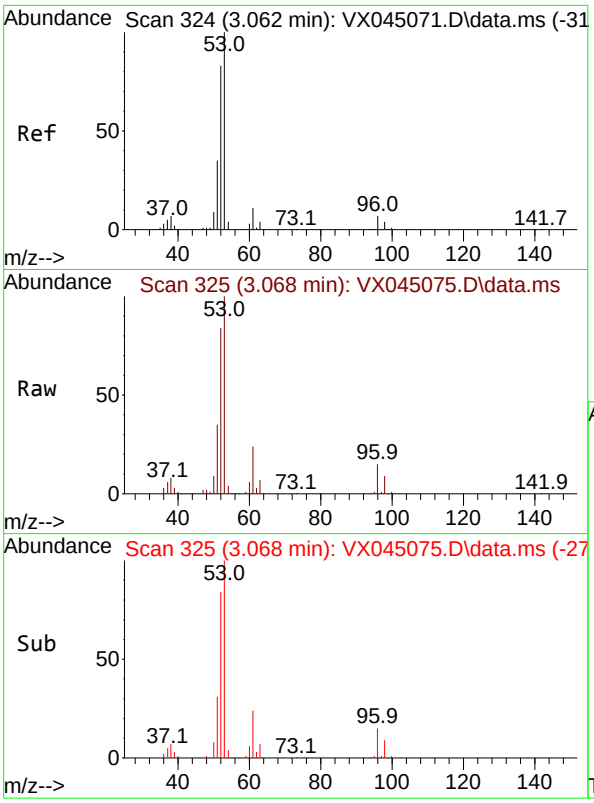


#14
Allyl chloride
Concen: 51.691 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 114875

Ion	Ratio	Lower	Upper
41	100		
39	66.3	53.8	80.8
76	33.0	25.2	37.8

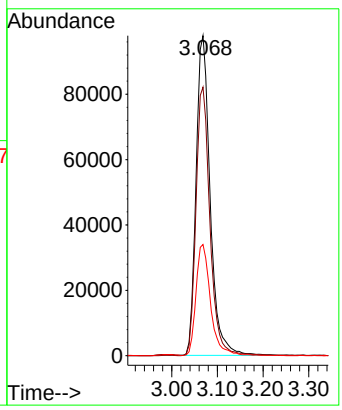




#15
Acrylonitrile
Concen: 255.479 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 53 Resp: 20960

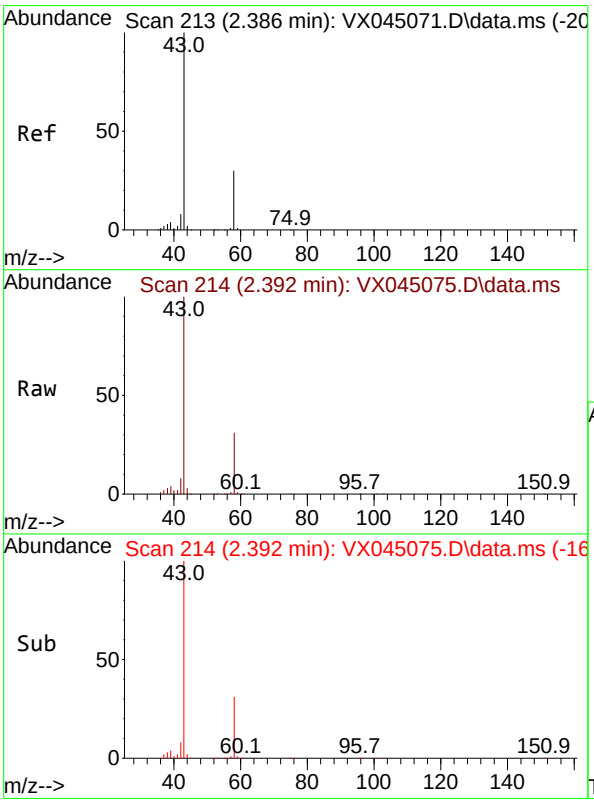
Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.2	99.2
51	35.8	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

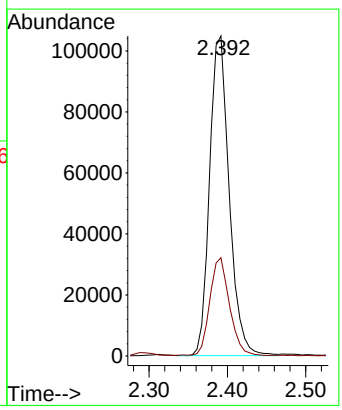
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

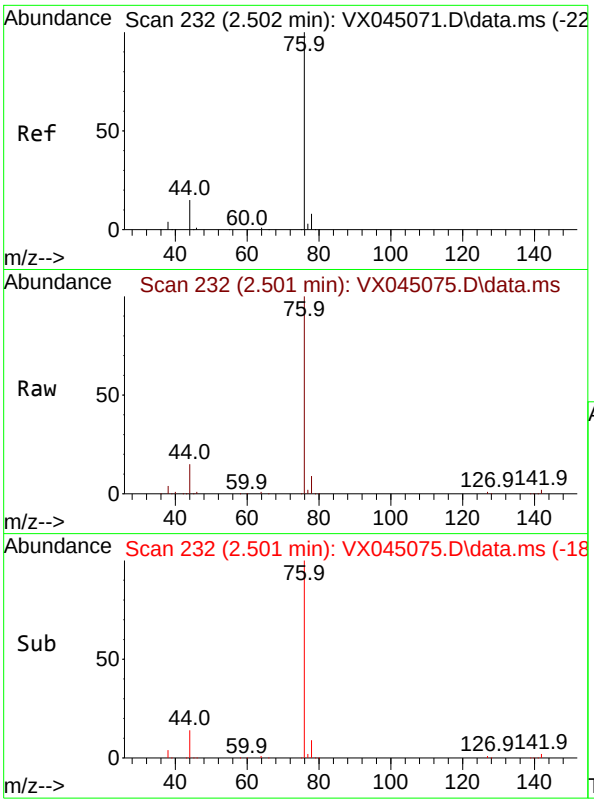


#16
Acetone
Concen: 242.877 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 182119

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.2	36.4





#17
Carbon Disulfide
Concen: 49.952 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

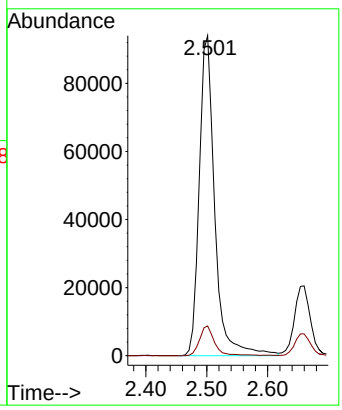
Tgt Ion: 76 Resp: 16610

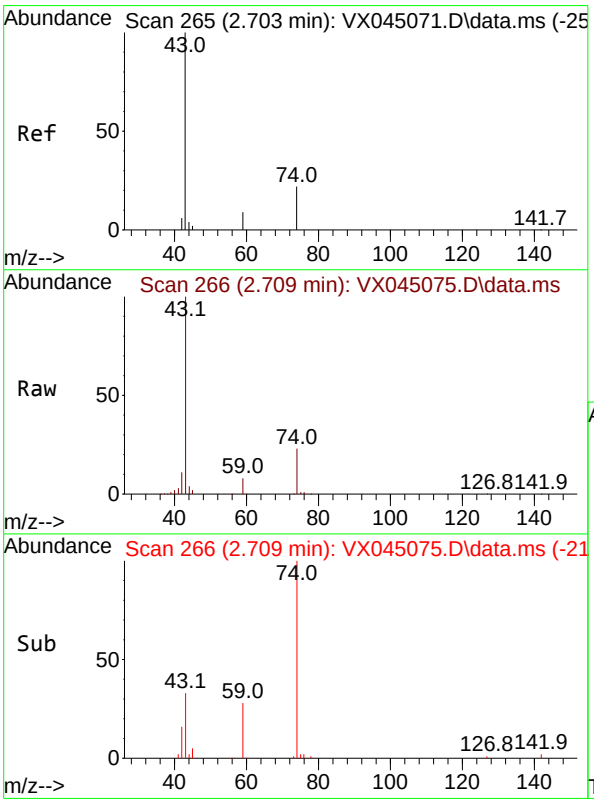
Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

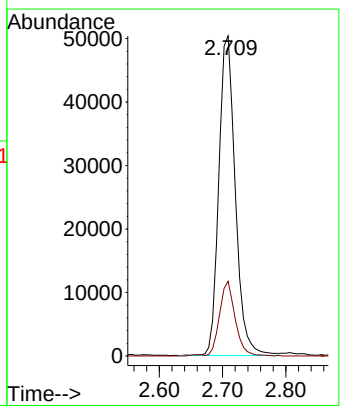


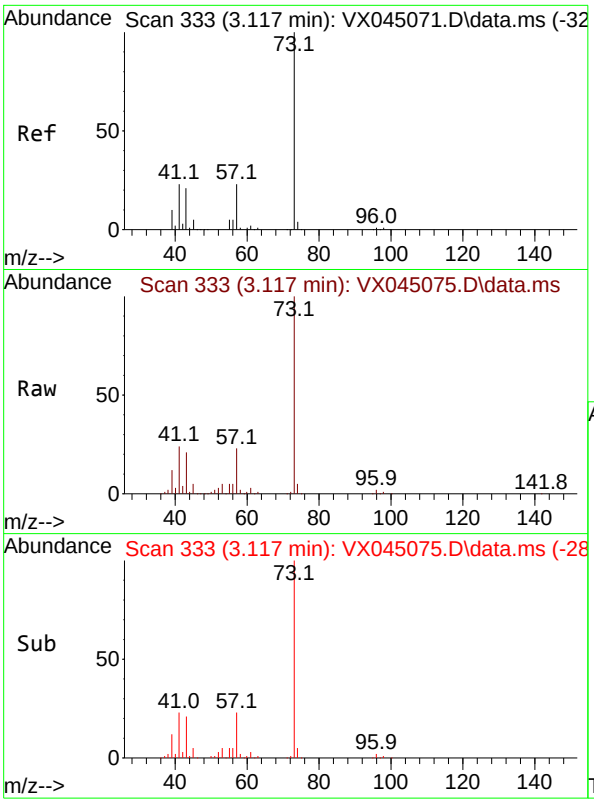


#18
Methyl Acetate
Concen: 50.312 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 90756

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2

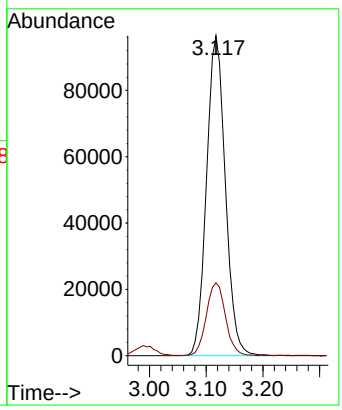




#19
Methyl tert-butyl Ether
Concen: 53.114 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 73 Resp: 22247

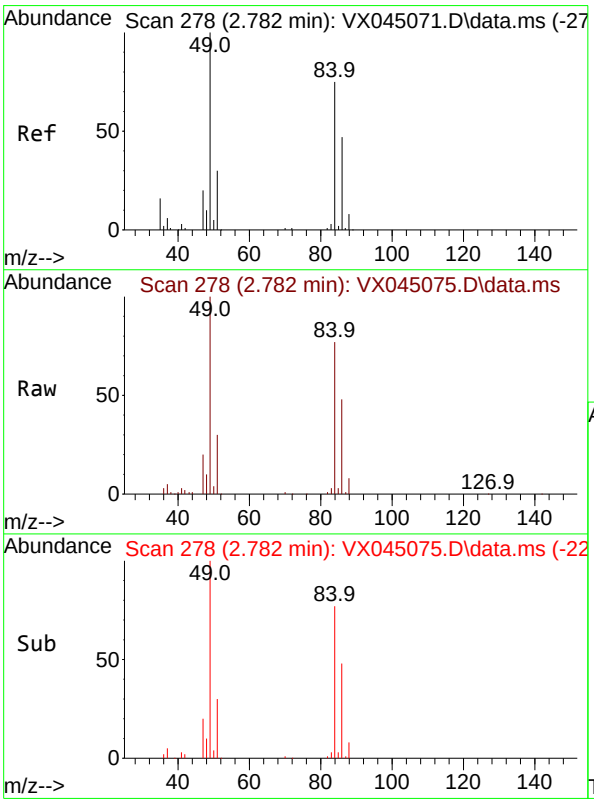
Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

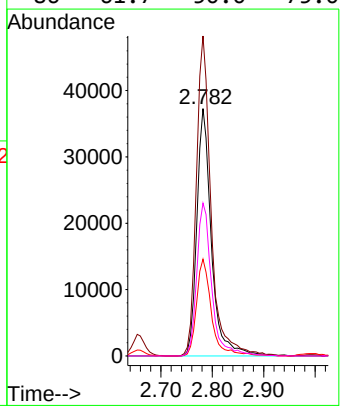
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

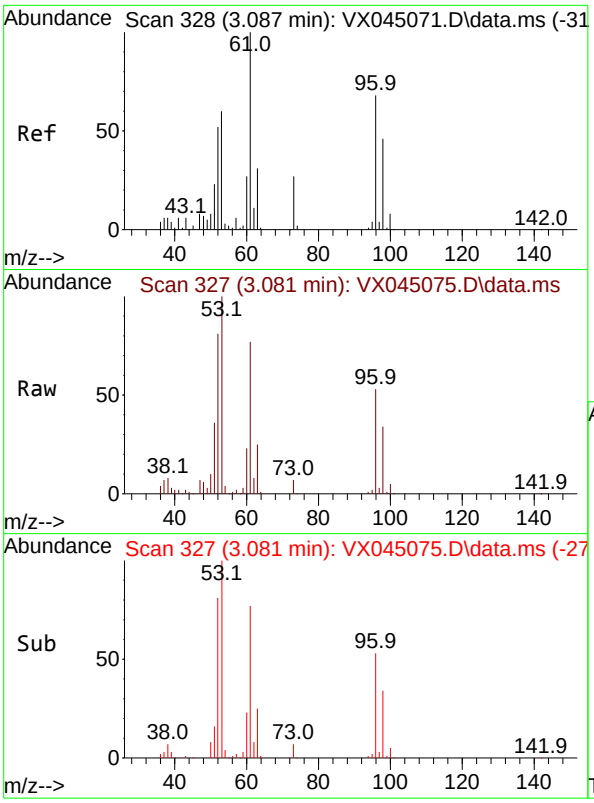


#20
Methylene Chloride
Concen: 49.639 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 84 Resp: 73731

Ion	Ratio	Lower	Upper
84	100		
49	129.3	106.5	159.7
51	39.1	32.1	48.1
86	61.7	50.0	75.0

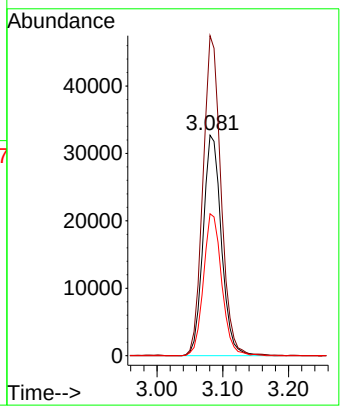




#21
trans-1,2-Dichloroethene
Concen: 51.172 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 96 Resp: 6311

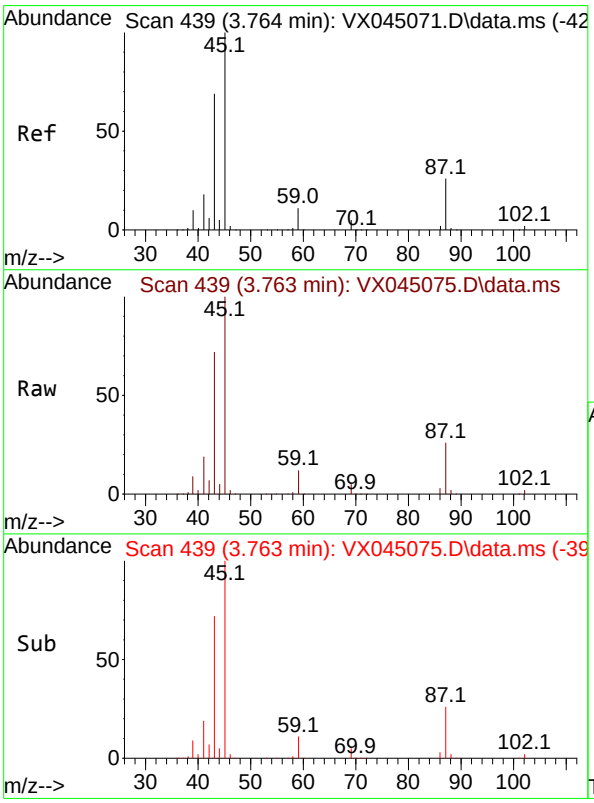
Ion	Ratio	Lower	Upper
96	100		
61	145.2	117.0	175.4
98	64.4	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

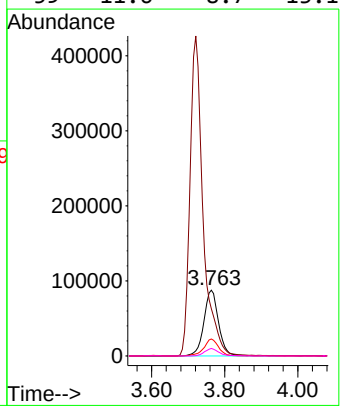
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

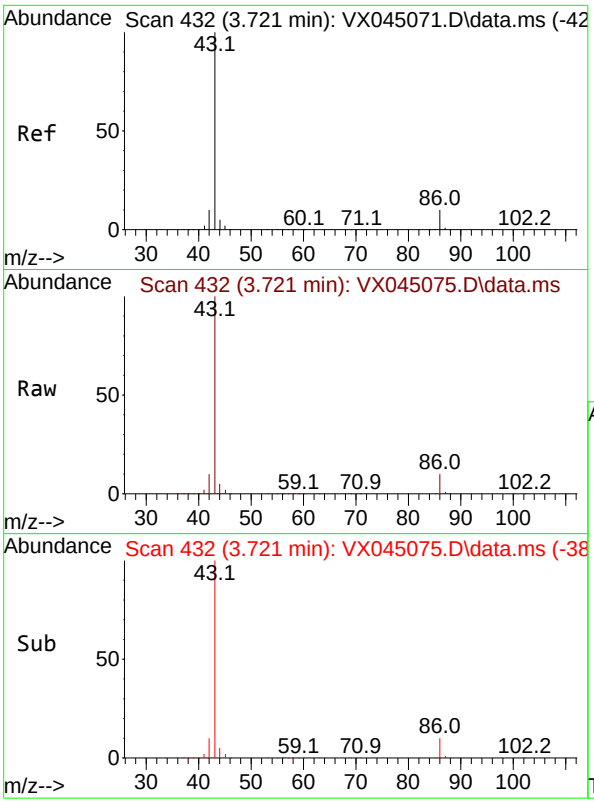


#22
Diisopropyl ether
Concen: 53.955 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 45 Resp: 243860

Ion	Ratio	Lower	Upper
45	100		
43	71.9	54.9	82.3
87	25.8	21.0	31.4
59	11.6	8.7	13.1

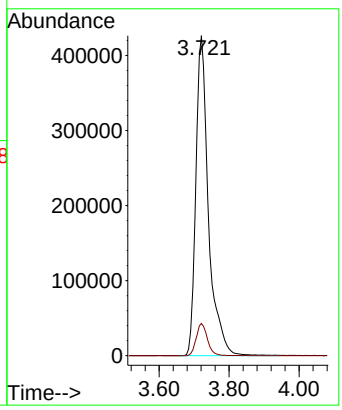




#23
Vinyl Acetate
Concen: 282.313 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 106481

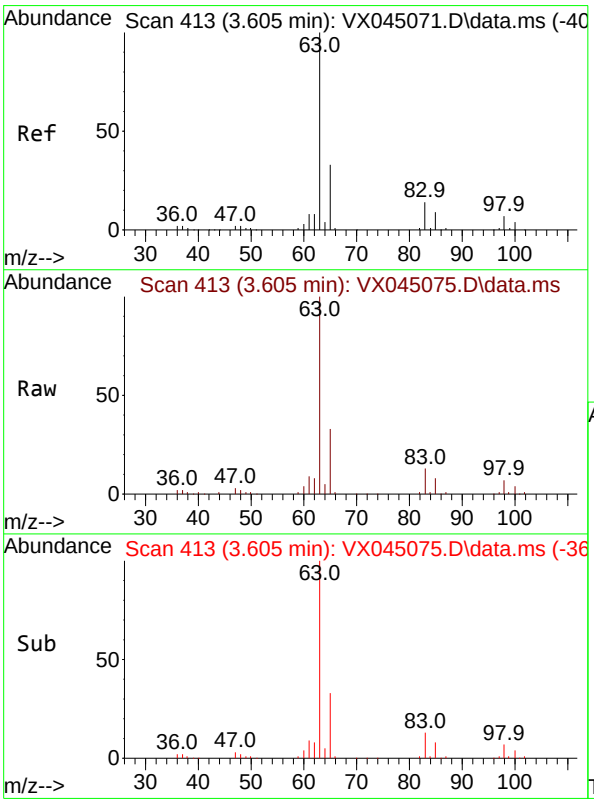
Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

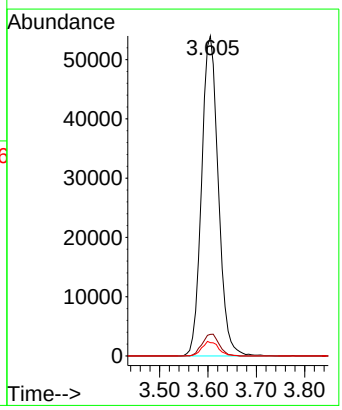
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

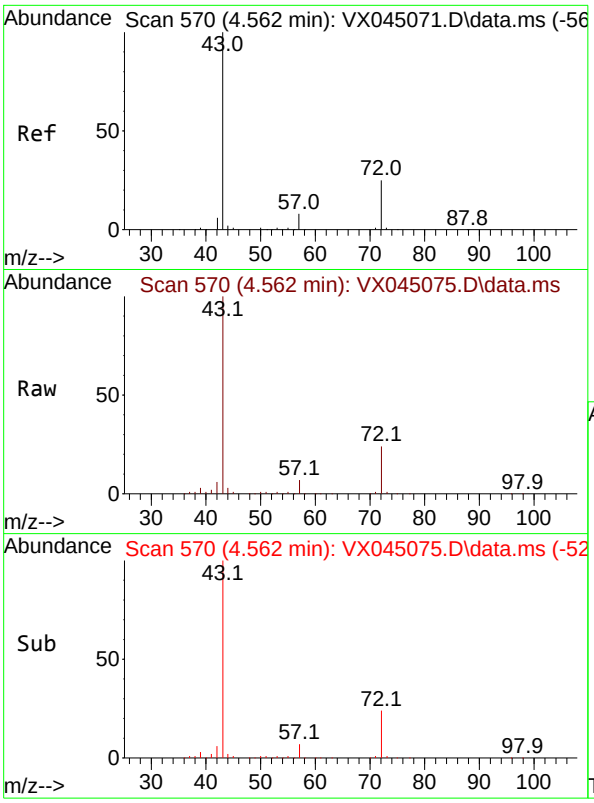


#24
1,1-Dichloroethane
Concen: 51.190 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 129666

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.1	2.1	6.5





#25
2-Butanone
Concen: 264.040 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

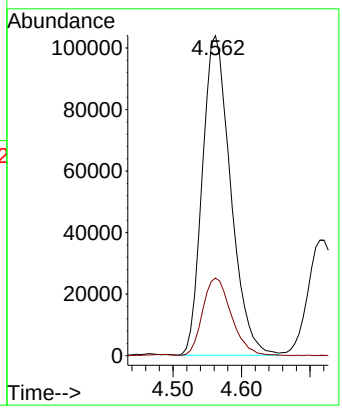
Tgt Ion: 43 Resp: 29802

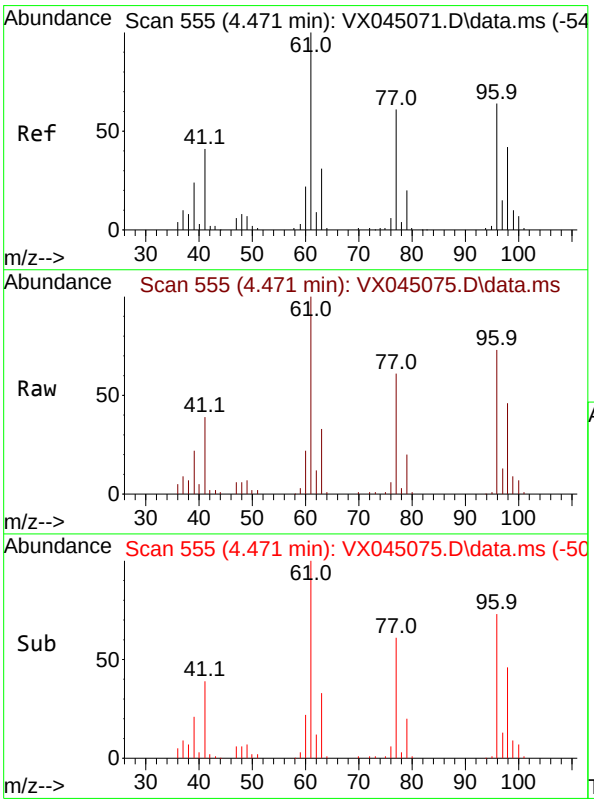
Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

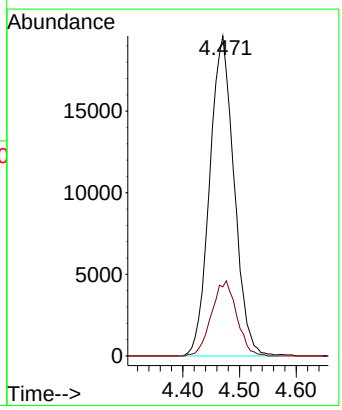


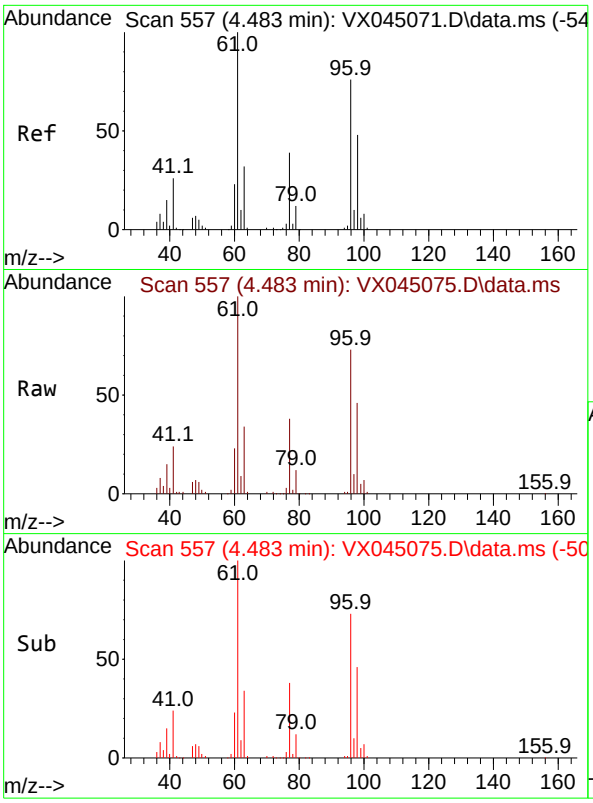


#26
2,2-Dichloropropane
Concen: 49.401 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 77 Resp: 58694

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.4	37.0

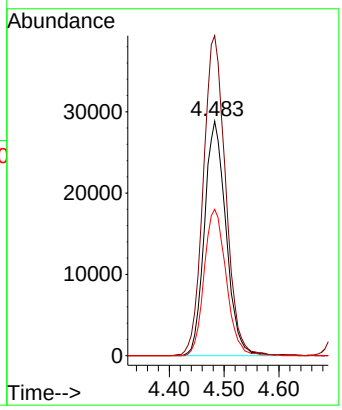




#27
cis-1,2-Dichloroethene
Concen: 51.606 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 96 Resp: 7857

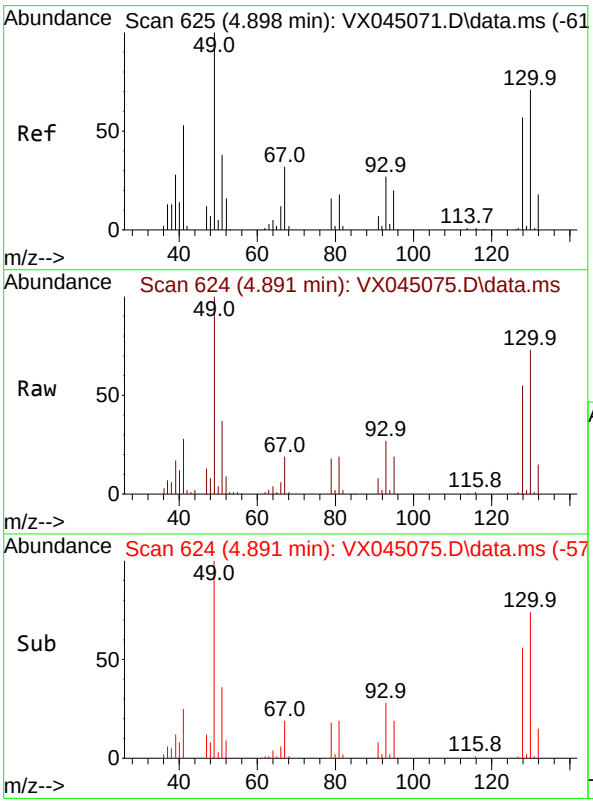
Ion	Ratio	Lower	Upper
96	100		
61	141.2	0.0	283.2
98	63.8	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

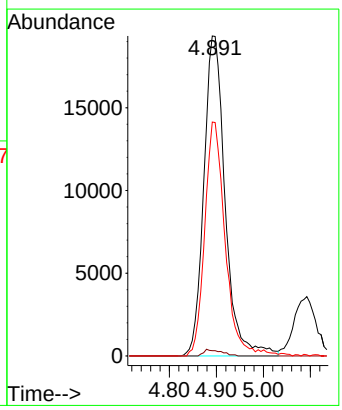
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

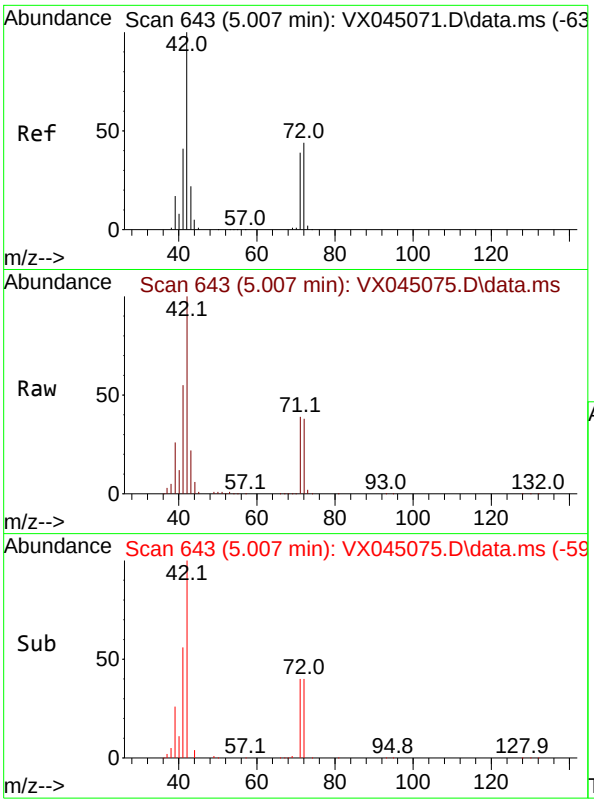


#28
Bromochloromethane
Concen: 50.399 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 49 Resp: 60849

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.0	56.1	84.1

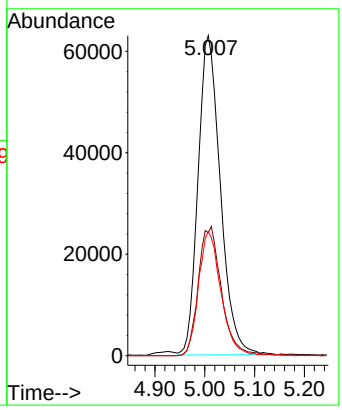




#29
Tetrahydrofuran
Concen: 258.277 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 42 Resp: 19576

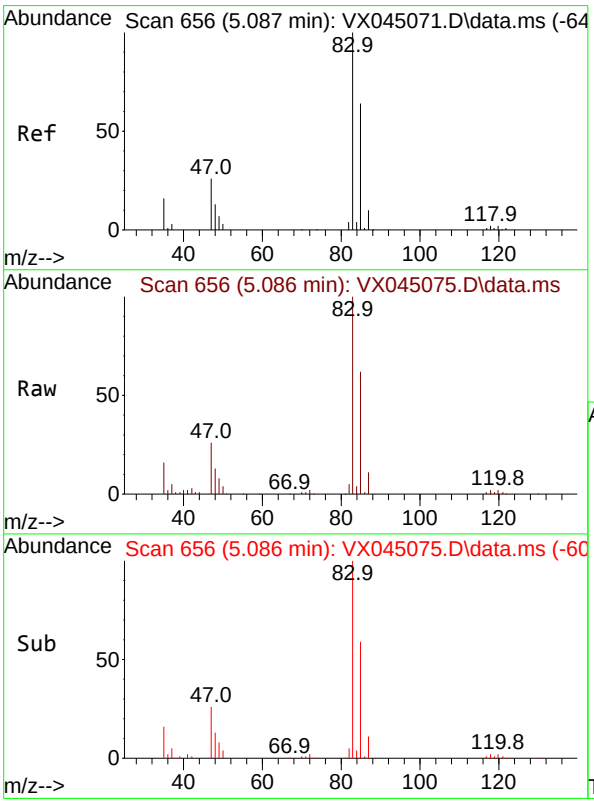
Ion	Ratio	Lower	Upper
42	100		
72	42.0	34.1	51.1
71	38.9	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

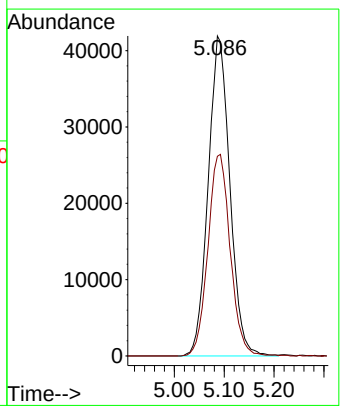
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

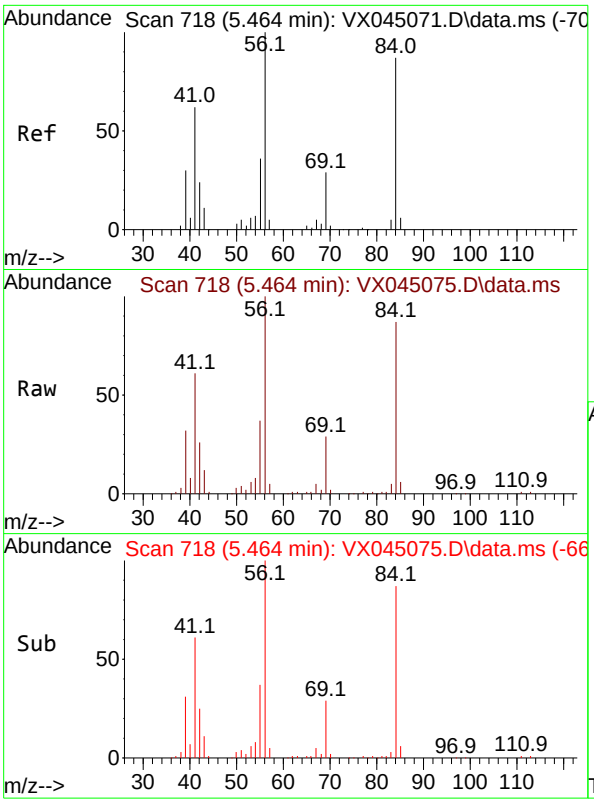


#30
Chloroform
Concen: 50.236 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 126437

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.4	77.2

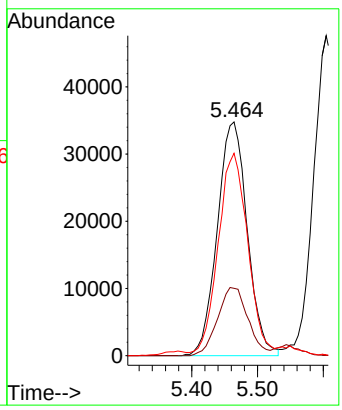




#31
Cyclohexane
Concen: 50.158 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 56 Resp: 11028

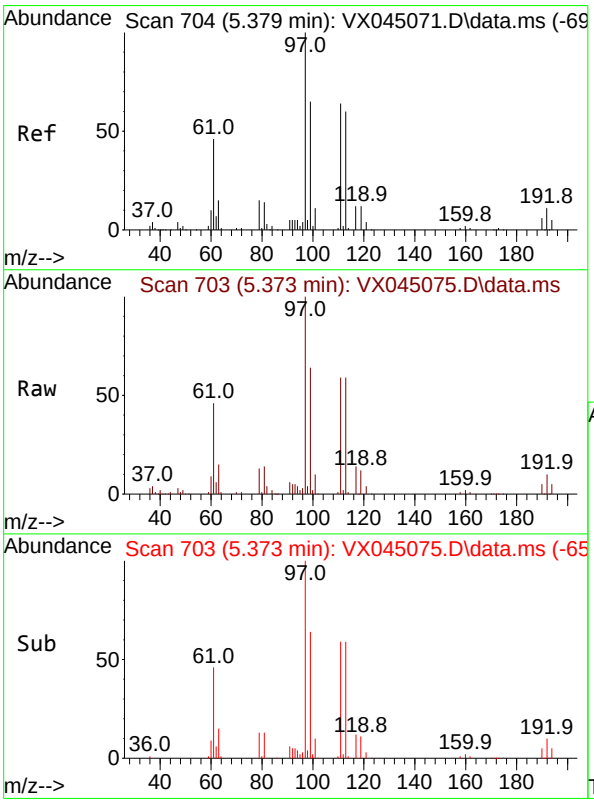
Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	84.6	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

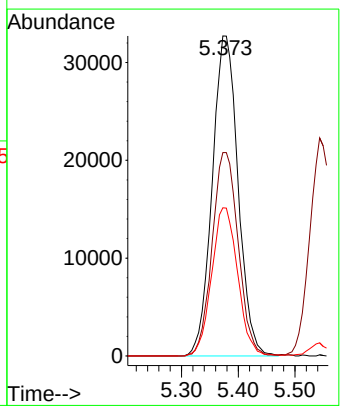
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

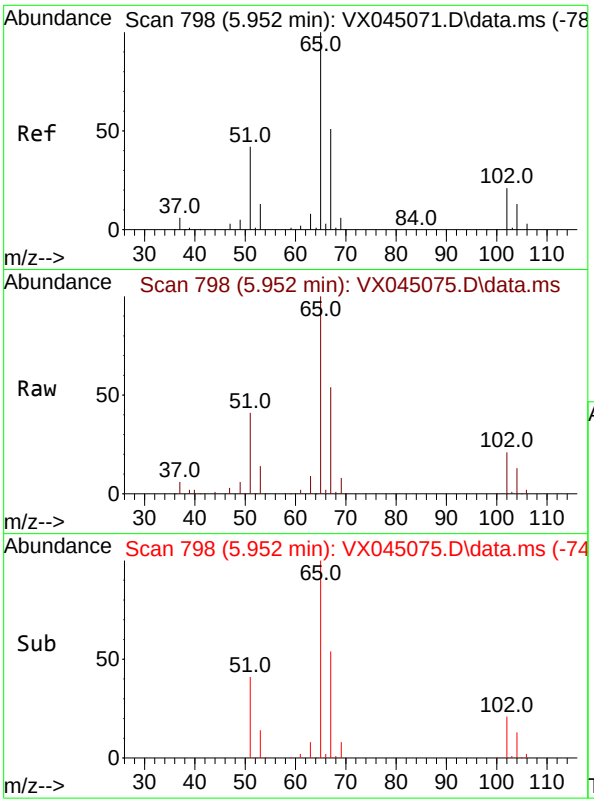


#32
1,1,1-Trichloroethane
Concen: 50.939 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 97 Resp: 103546

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.6	77.4
61	46.7	38.4	57.6

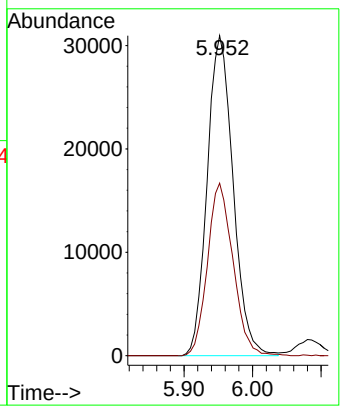




#33
1,2-Dichloroethane-d4
Concen: 50.297 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 65 Resp: 8128

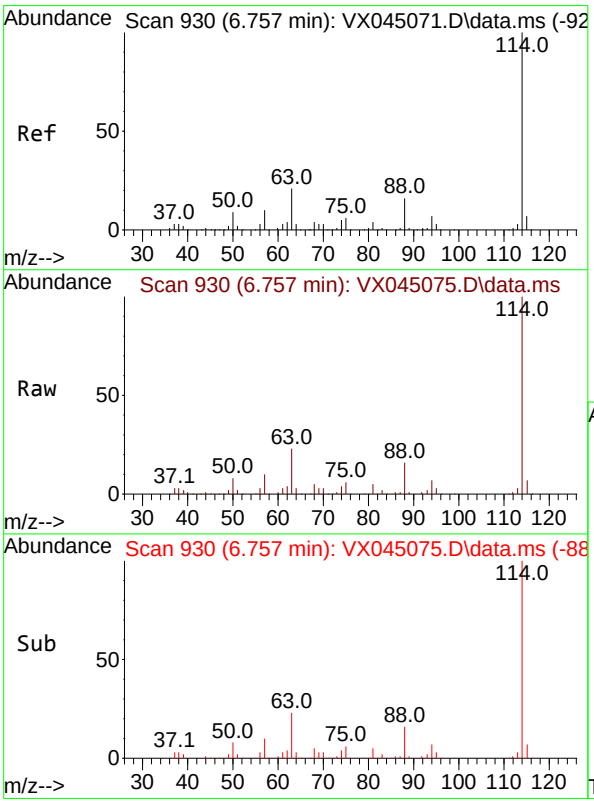
Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

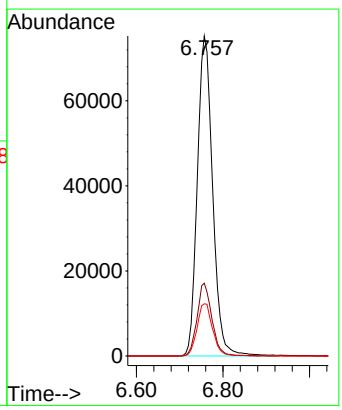
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

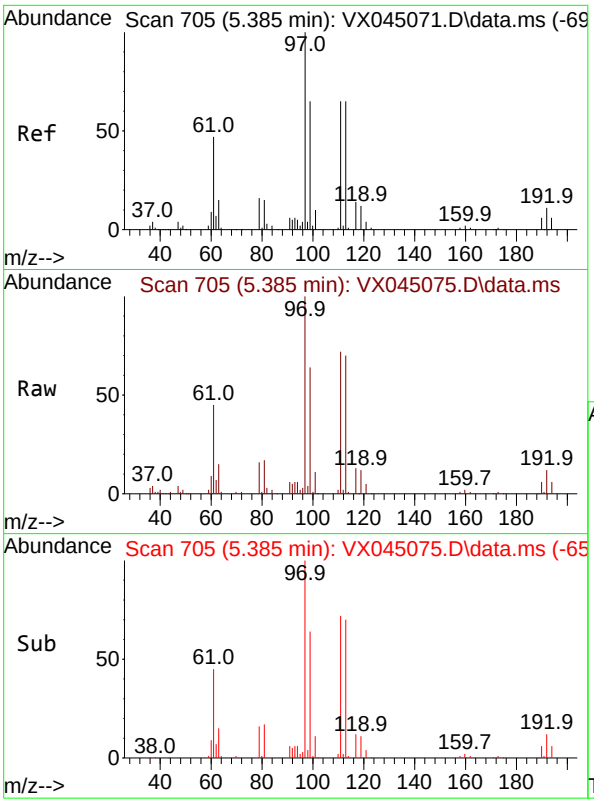


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:114 Resp: 184964

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	41.8
88	16.3	0.0	32.8

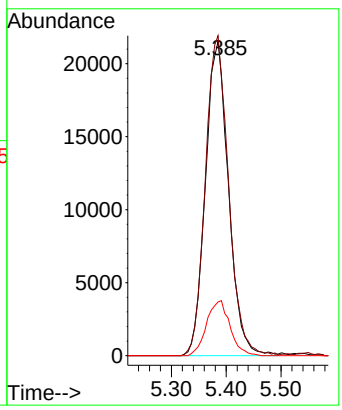




#35
Dibromofluoromethane
Concen: 50.841 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:113 Resp: 6288

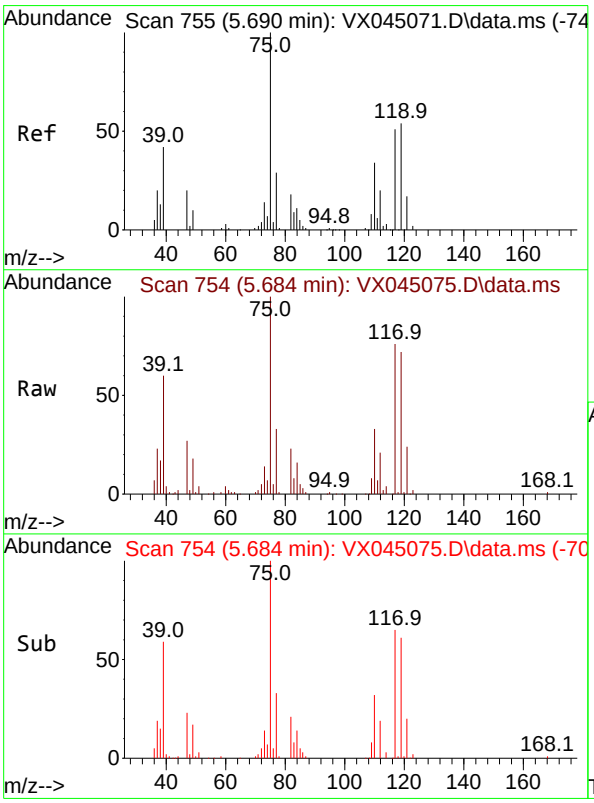
Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.6
192	17.8	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

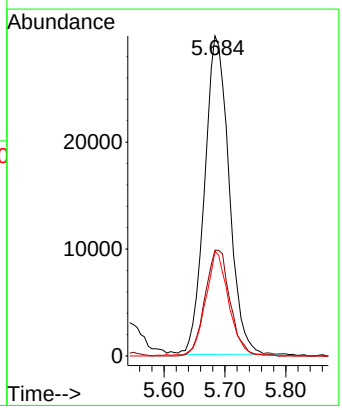
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

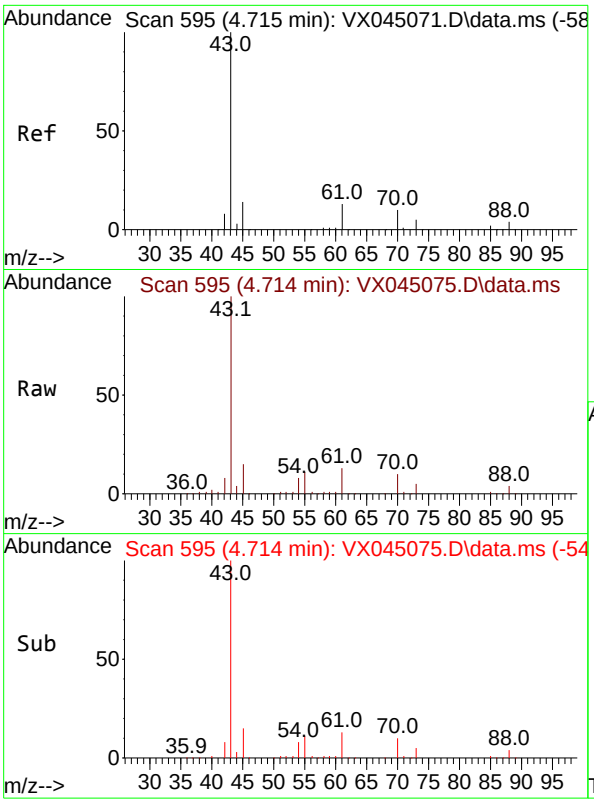


#36
1,1-Dichloropropene
Concen: 48.770 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 82722

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.9	50.6
77	31.2	24.5	36.7





#37
Ethyl Acetate
Concen: 51.596 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

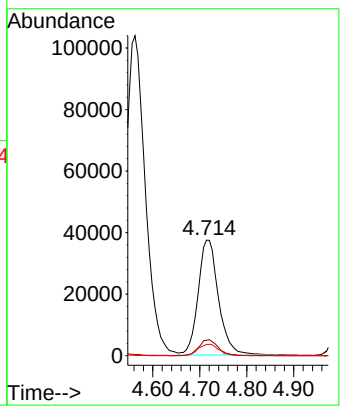
Tgt Ion: 43 Resp: 11276

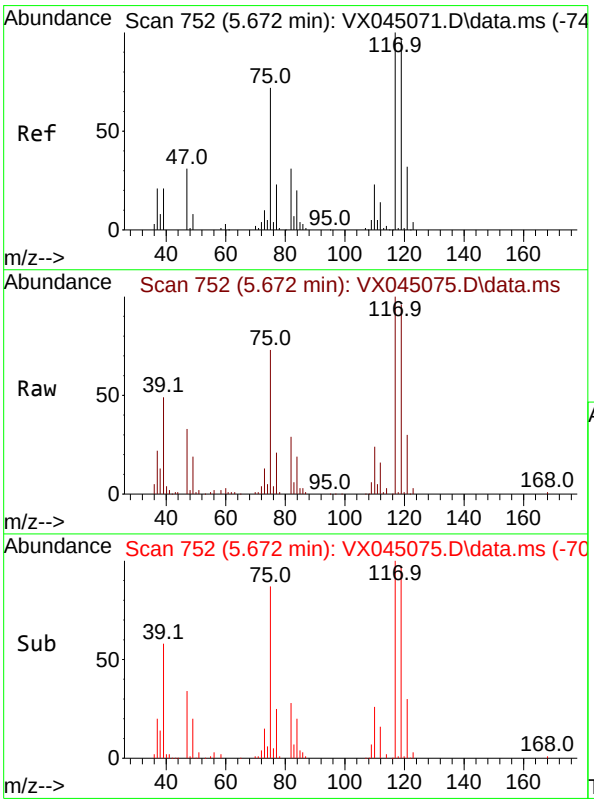
Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.8	16.2
70	10.1	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

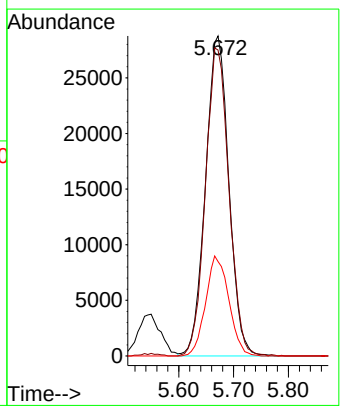


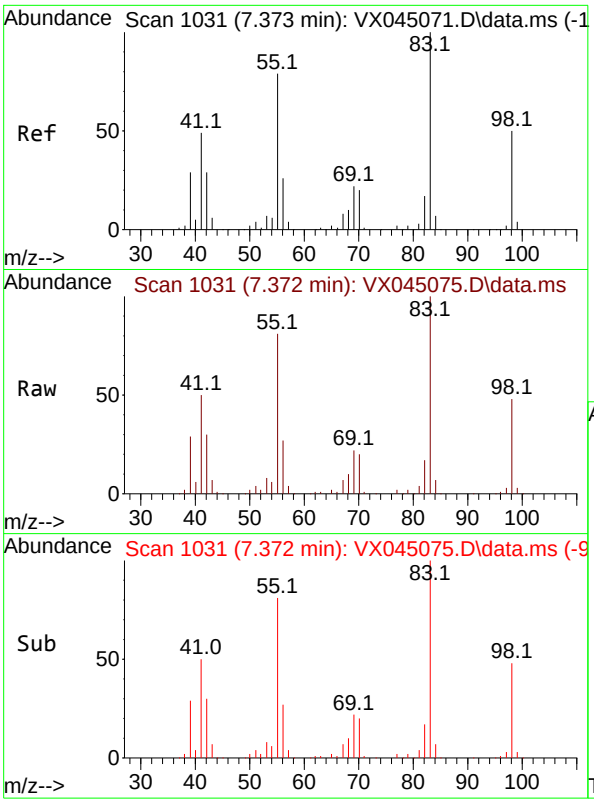


#38
Carbon Tetrachloride
Concen: 49.425 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 85110

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.7	115.1
121	29.5	25.5	38.3

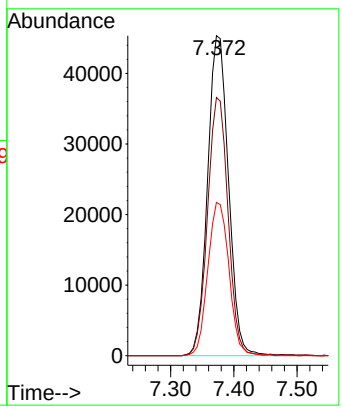




#39
Methylcyclohexane
Concen: 51.169 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 10399

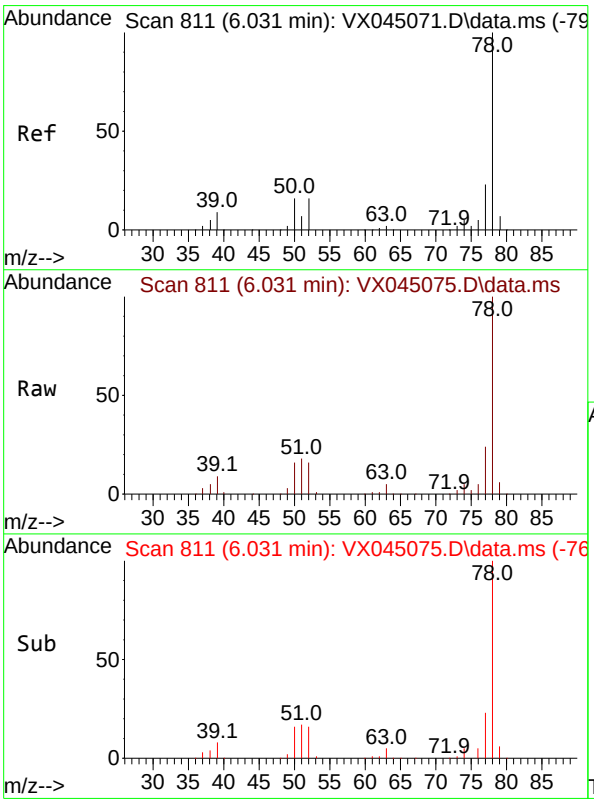
Ion	Ratio	Lower	Upper
83	100		
55	80.7	63.0	94.4
98	47.9	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

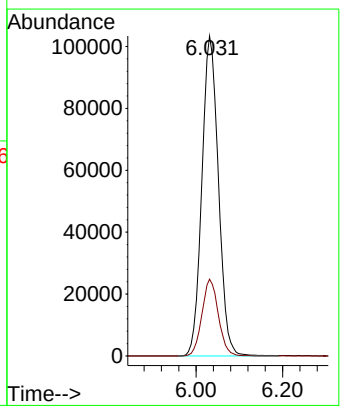
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

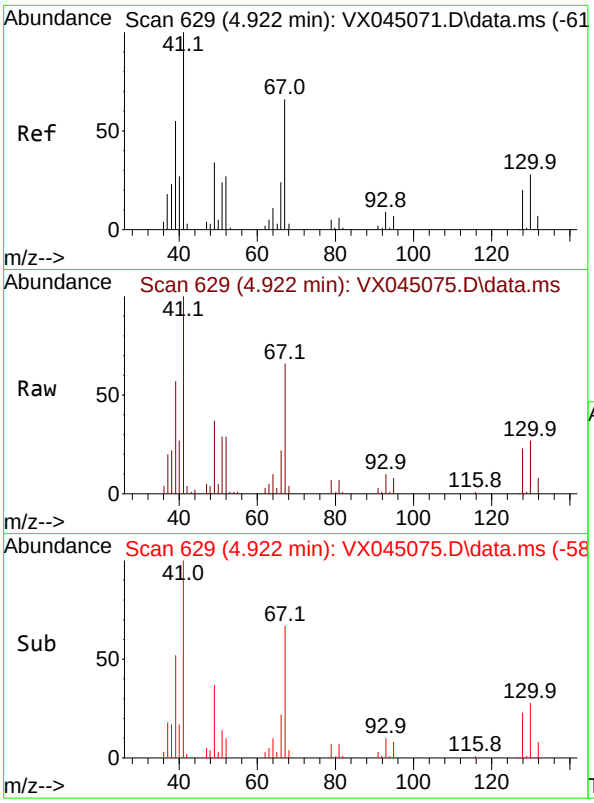


#40
Benzene
Concen: 51.195 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 78 Resp: 274206

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2

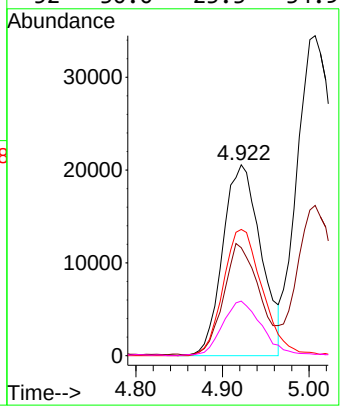




#41
Methacrylonitrile
Concen: 53.352 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 6305

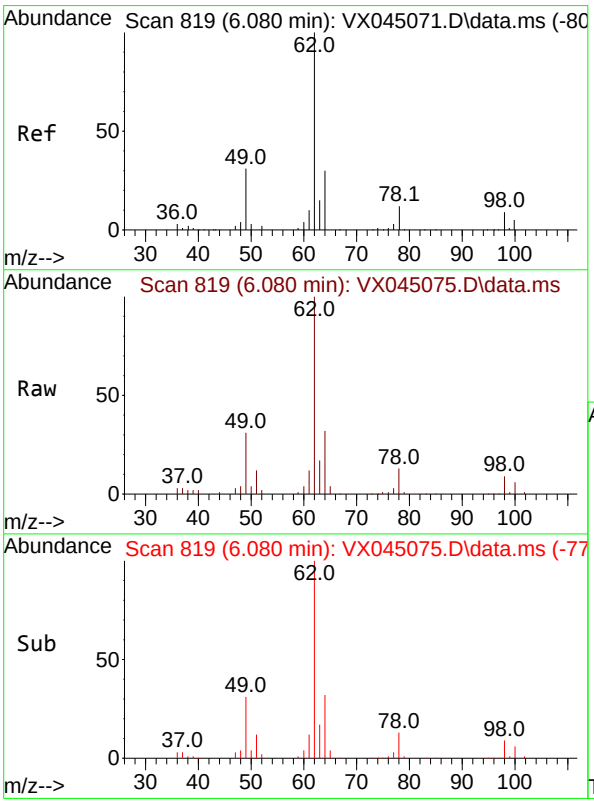
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.6	67.0
67	68.1	53.9	80.9
52	30.0	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

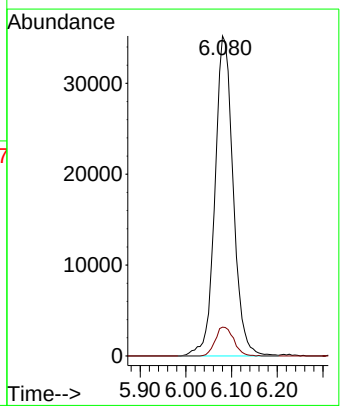
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

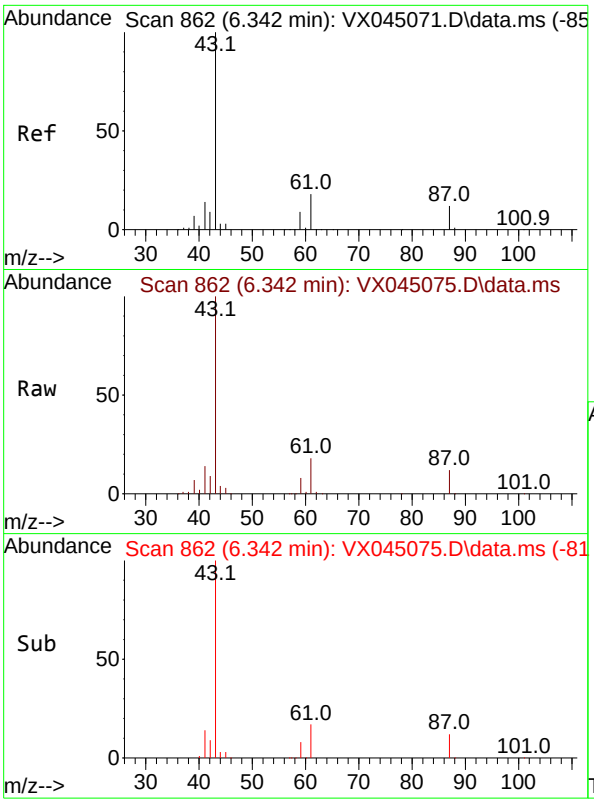


#42
1,2-Dichloroethane
Concen: 50.718 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 62 Resp: 97821

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2





#43
Isopropyl Acetate
Concen: 54.452 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

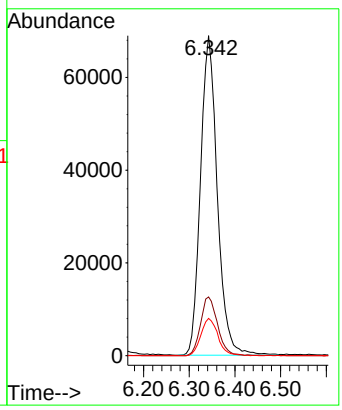
Tgt Ion: 43 Resp: 17598

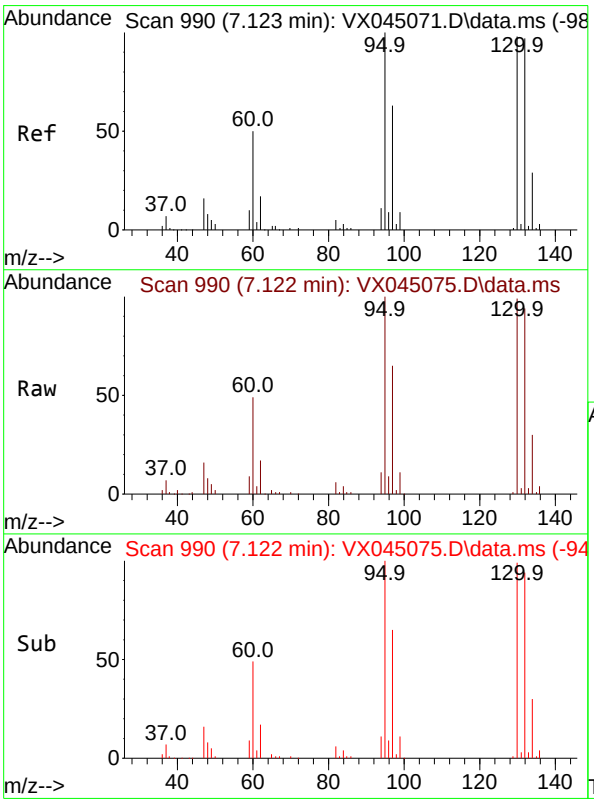
Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.9	22.3
87	11.8	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

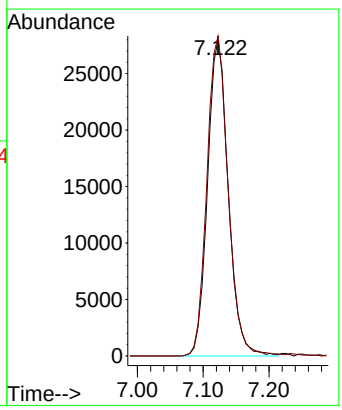


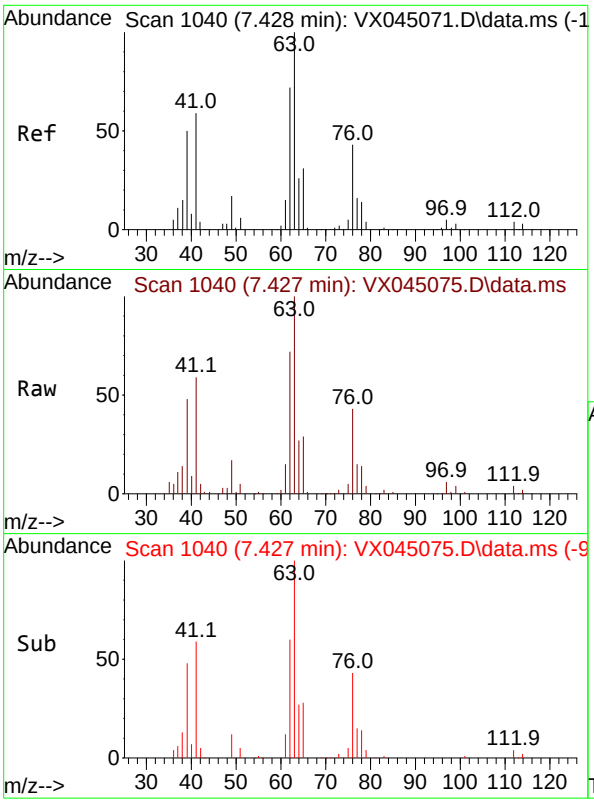


#44
Trichloroethene
Concen: 48.924 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:130 Resp: 61530

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	205.0

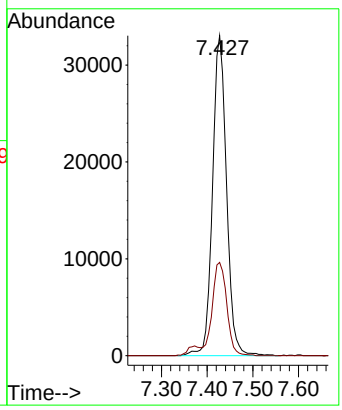




#45
1,2-Dichloropropane
Concen: 51.086 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 7035

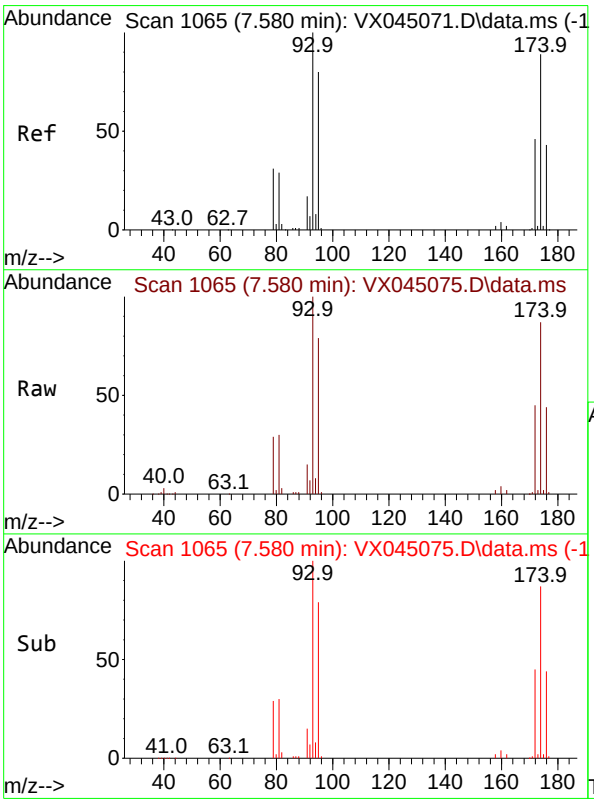
Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

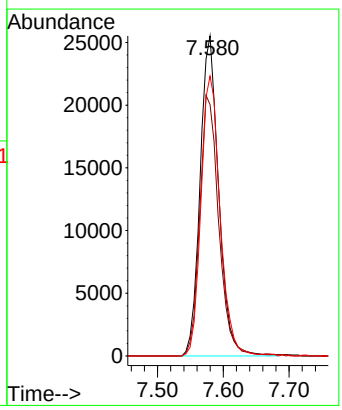
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

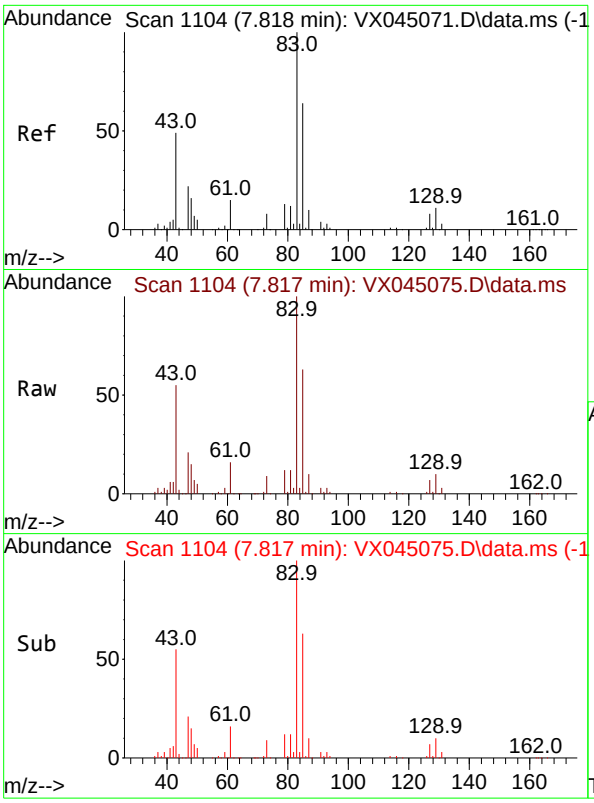


#46
Dibromomethane
Concen: 51.661 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 93 Resp: 50284

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.8	98.8
174	89.4	72.2	108.2

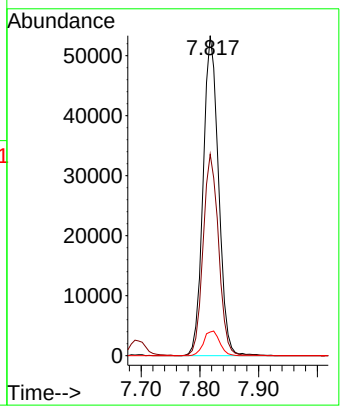




#47
Bromodichloromethane
Concen: 50.930 ug/l
RT: 7.817 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 9723

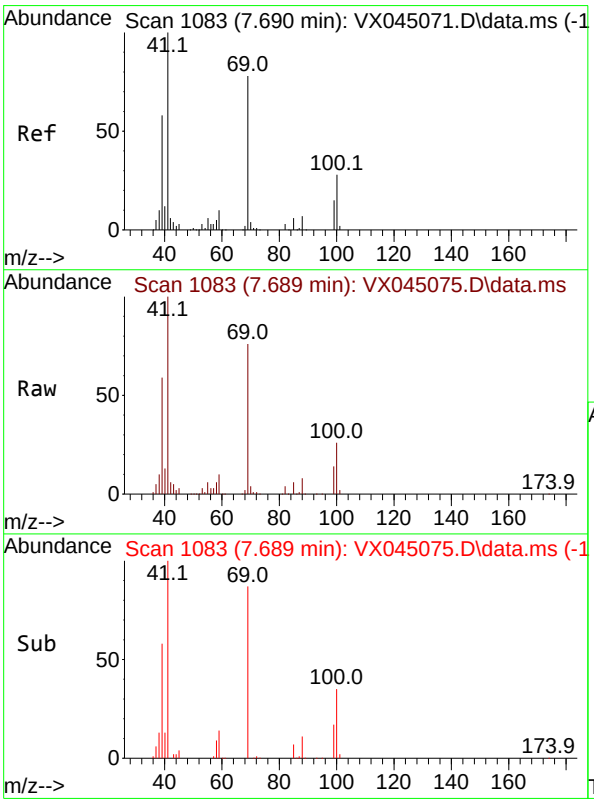
Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7
127	7.4	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

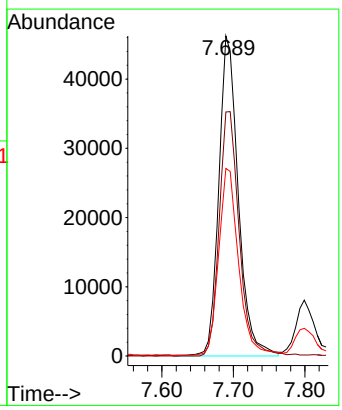
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

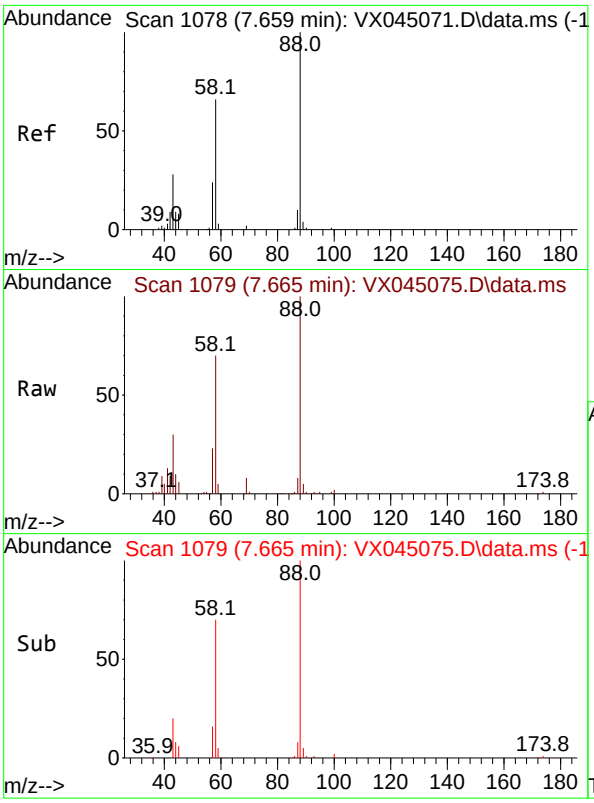


#48
Methyl methacrylate
Concen: 54.016 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 87582

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.0	94.6
39	59.4	47.5	71.3

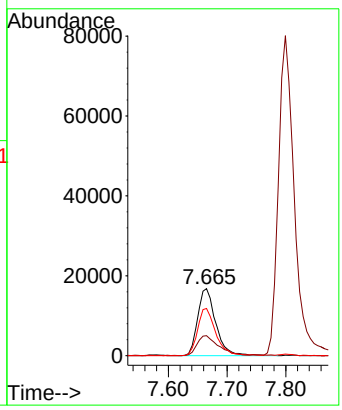




#49
1,4-Dioxane
Concen: 1049.007 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 88 Resp: 3587

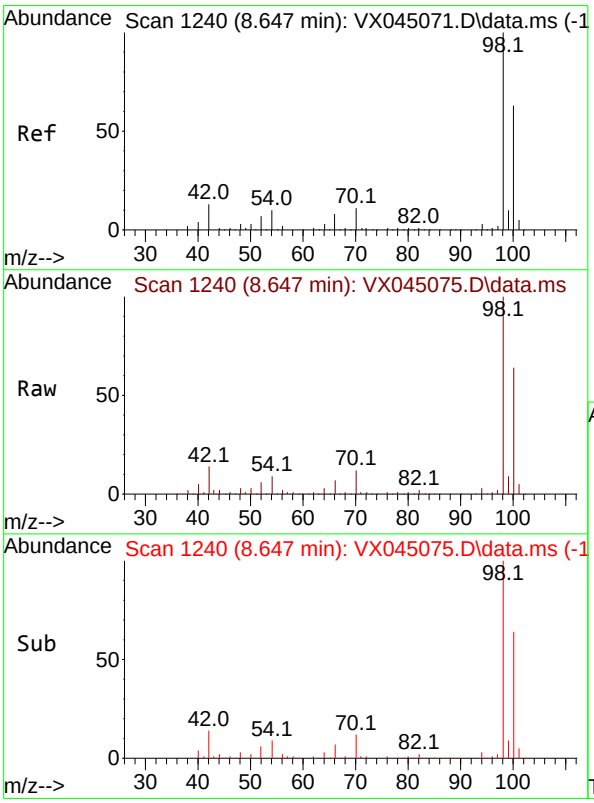
Ion	Ratio	Lower	Upper
88	100		
43	34.3	28.7	43.1
58	70.8	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

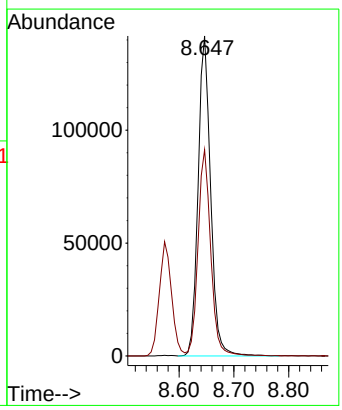
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

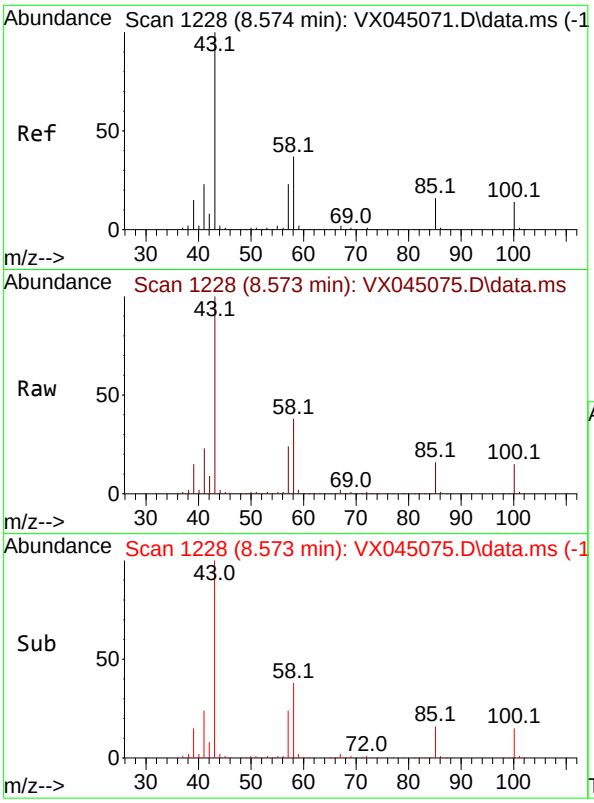


#50
Toluene-d8
Concen: 50.364 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 98 Resp: 225823

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.0	78.0

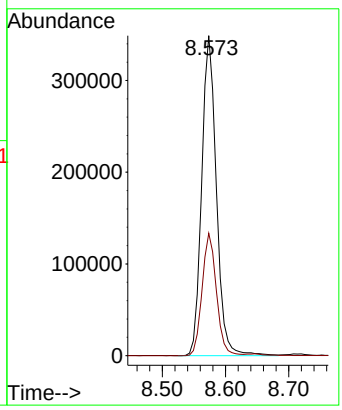




#51
4-Methyl-2-Pentanone
Concen: 259.995 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 56419

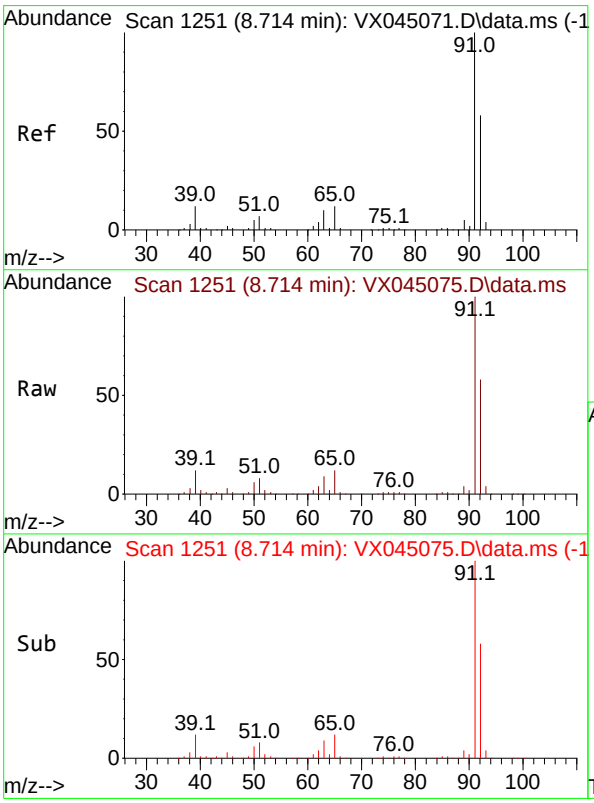
Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

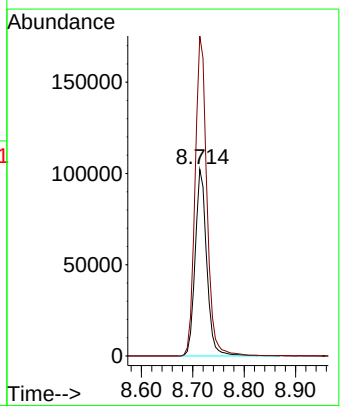
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

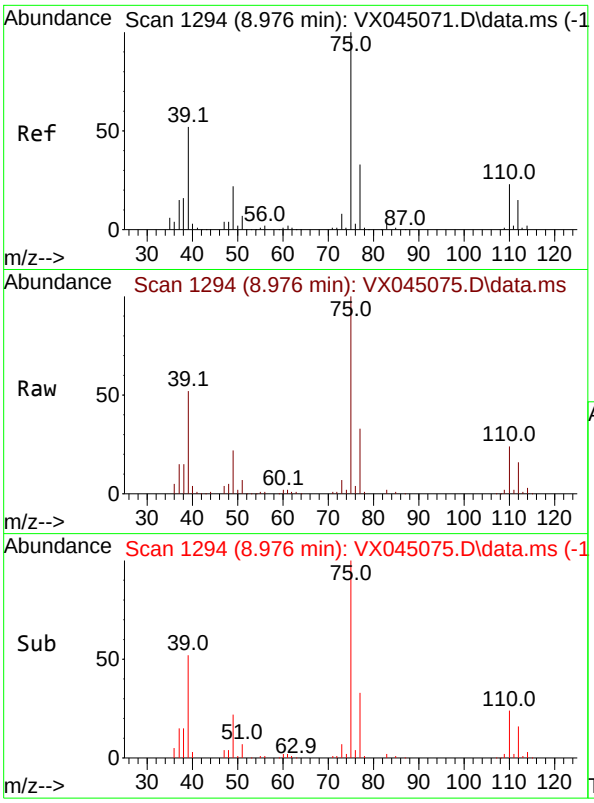


#52
Toluene
Concen: 51.020 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 92 Resp: 160331

Ion	Ratio	Lower	Upper
92	100		
91	175.1	138.9	208.3

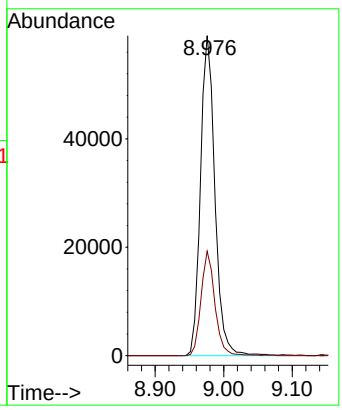




#53
t-1,3-Dichloropropene
Concen: 54.247 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 8658

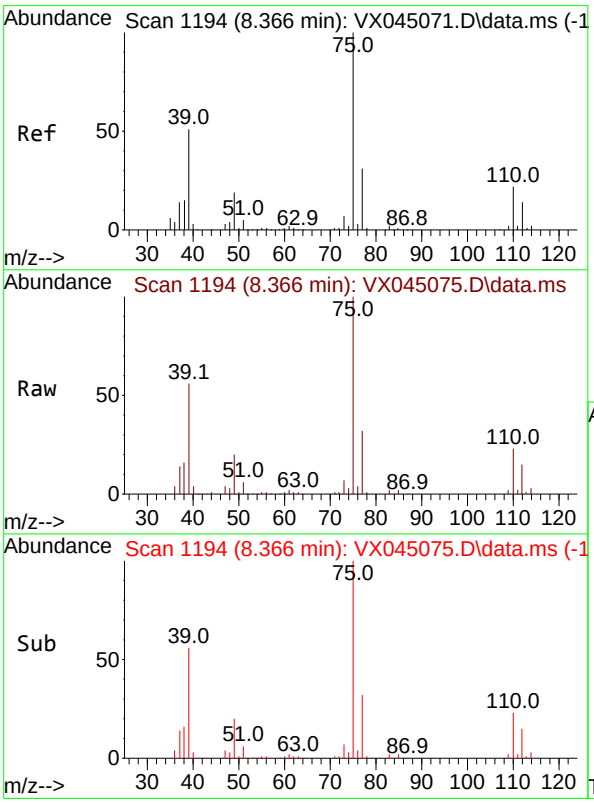
Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

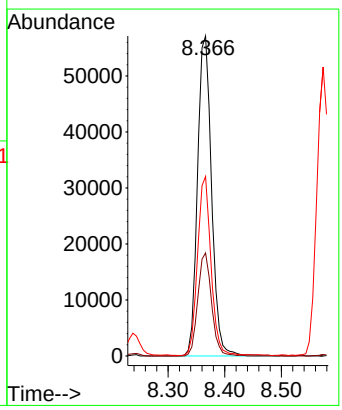
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

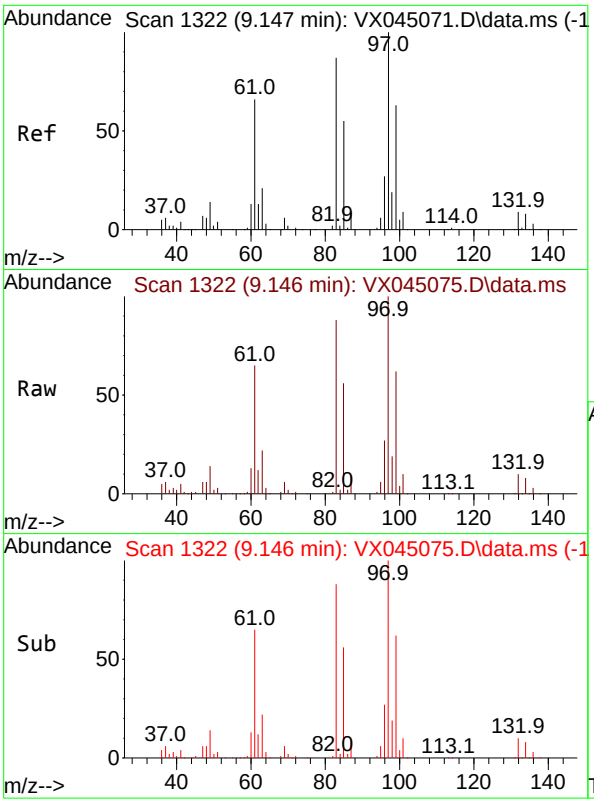


#54
cis-1,3-Dichloropropene
Concen: 52.732 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 98146

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	56.0	40.7	61.1

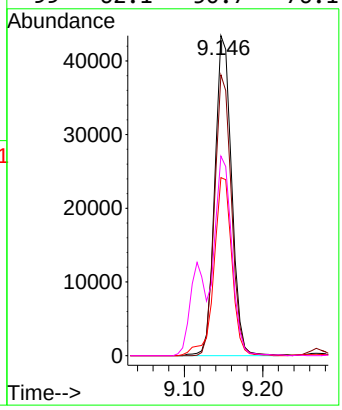




#55
1,1,2-Trichloroethane
Concen: 50.232 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 97 Resp: 6498

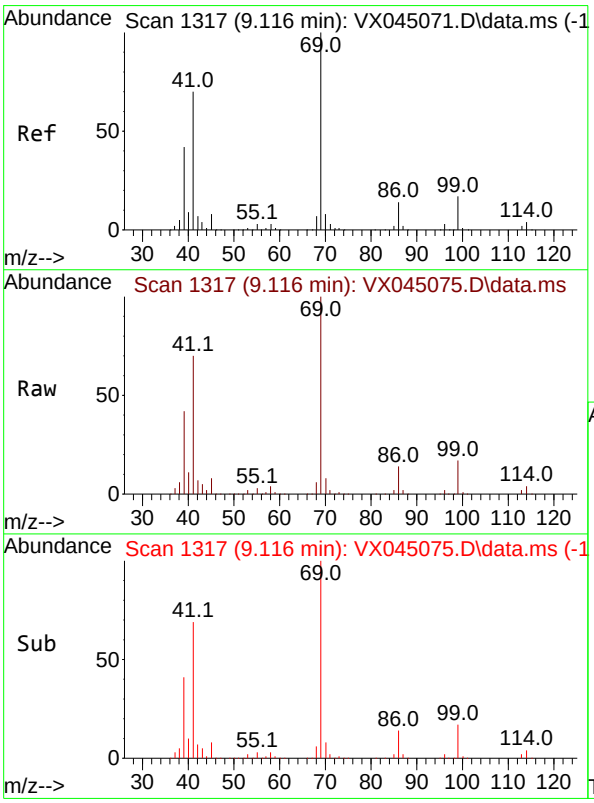
Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.4	104.2
85	55.6	44.1	66.1
99	62.1	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

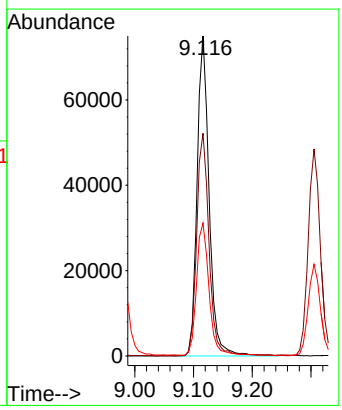
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

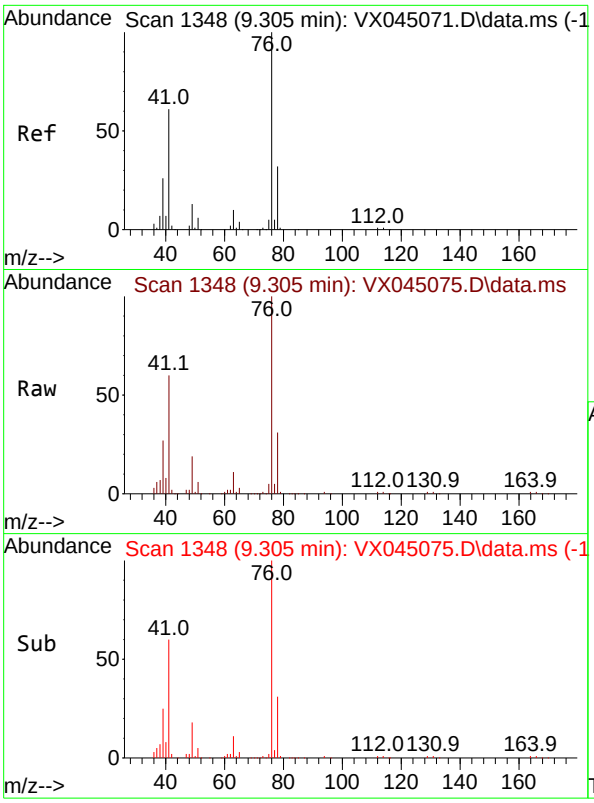


#56
Ethyl methacrylate
Concen: 54.109 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 69 Resp: 106405

Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	43.2	34.2	51.4

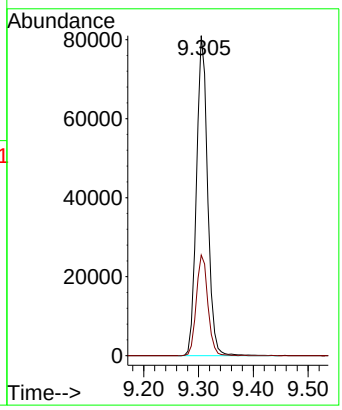




#57
1,3-Dichloropropane
Concen: 51.312 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 76 Resp: 11488

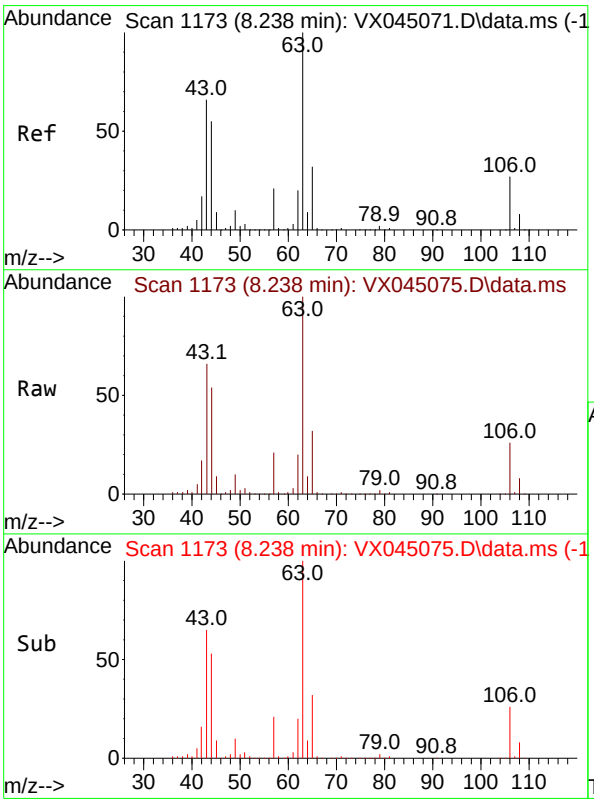
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

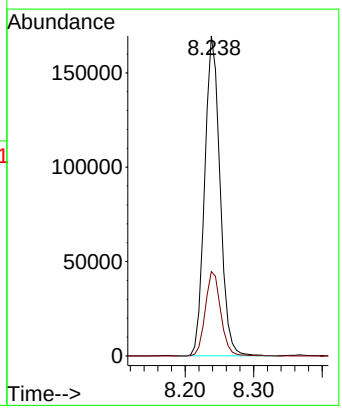
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

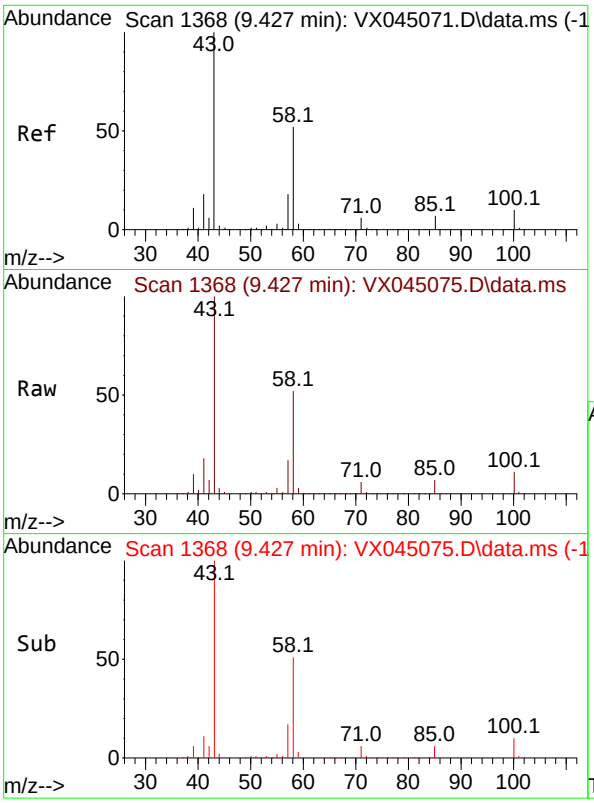


#58
2-Chloroethyl Vinyl ether
Concen: 275.557 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 264335

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3

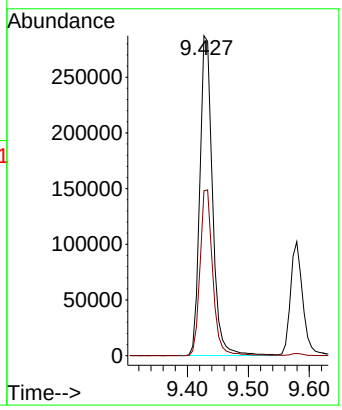




#59
2-Hexanone
Concen: 265.049 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 41673

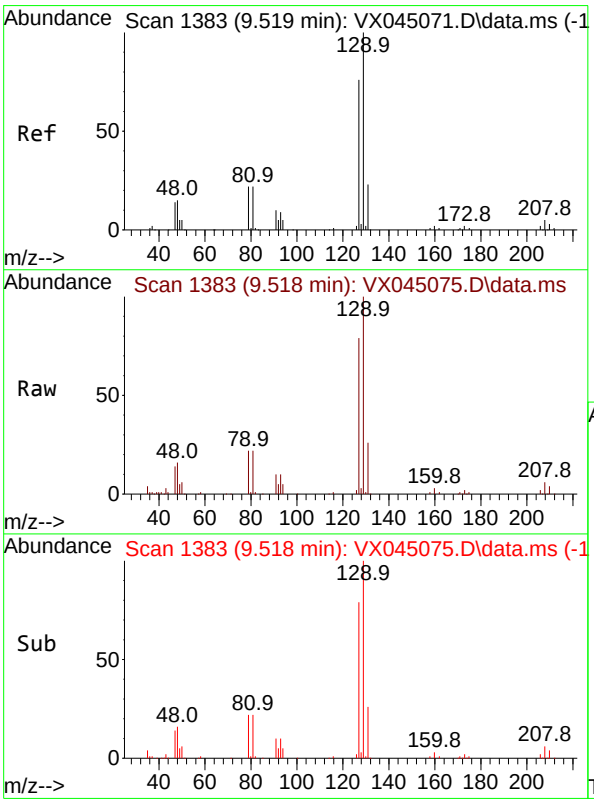
Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.9	77.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

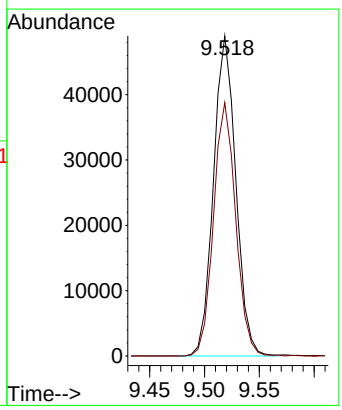
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

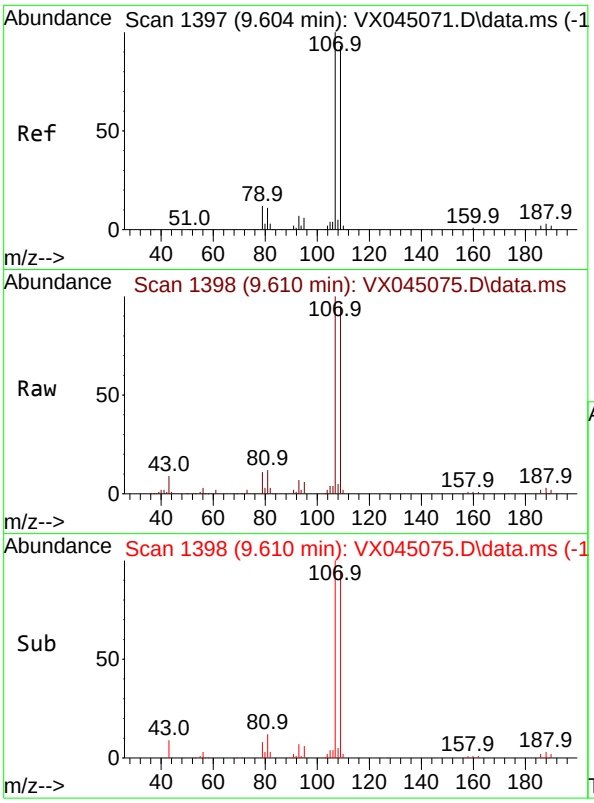


#60
Dibromochloromethane
Concen: 51.374 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:129 Resp: 69492

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.5	115.5

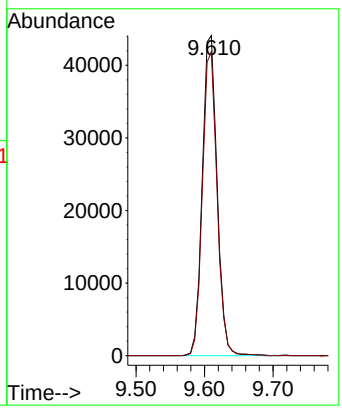




#61
1,2-Dibromoethane
Concen: 51.492 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:107 Resp: 6650

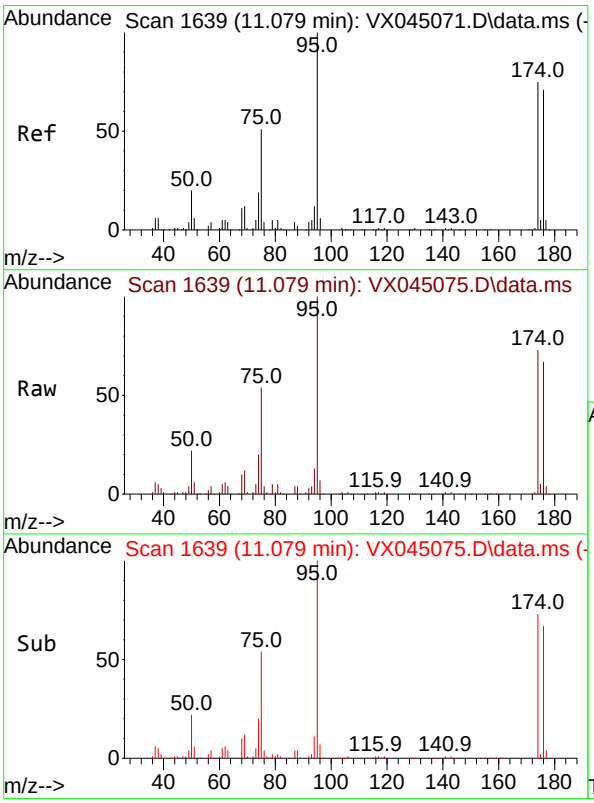
Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

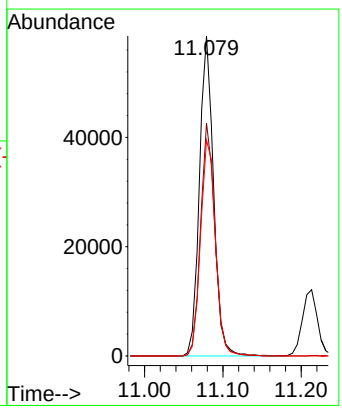
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

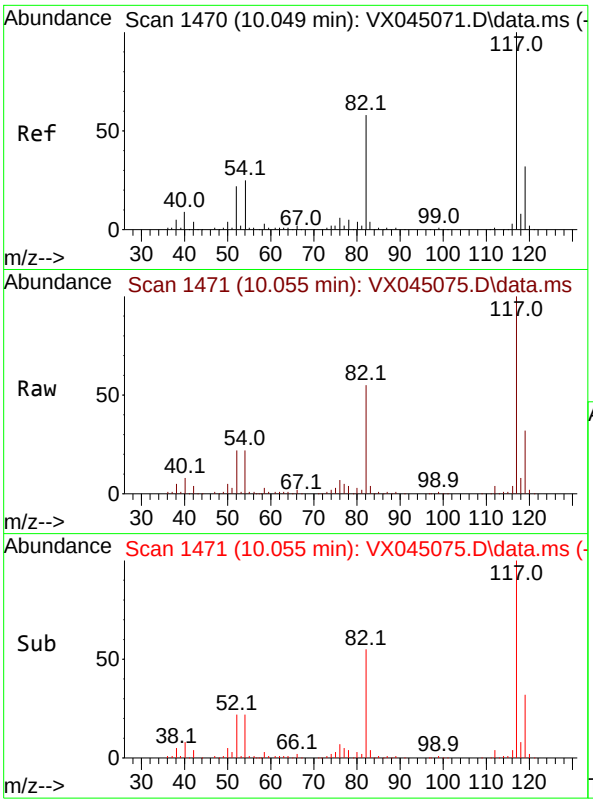


#62
4-Bromofluorobenzene
Concen: 49.240 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 95 Resp: 73162

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	148.2
176	71.3	0.0	141.4

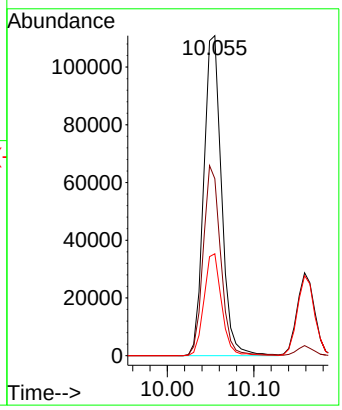




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 15779

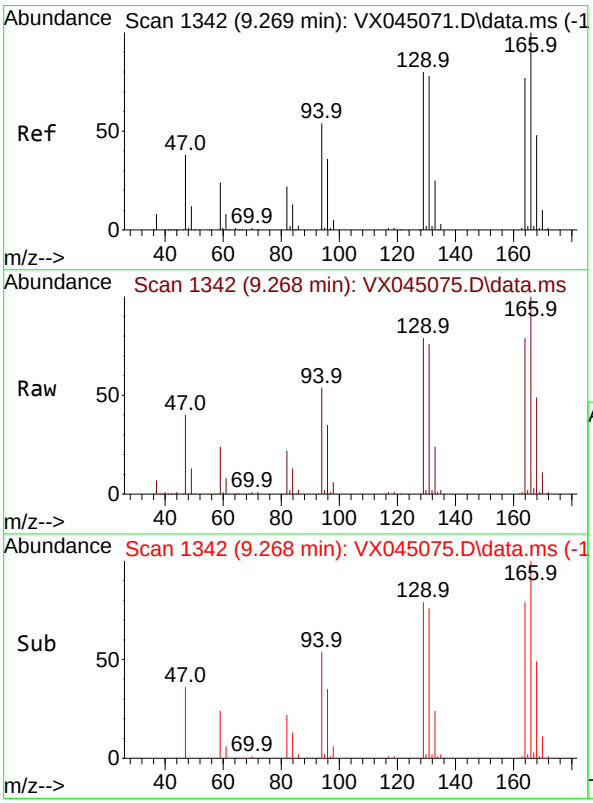
Ion	Ratio	Lower	Upper
117	100		
82	55.3	46.3	69.5
119	31.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

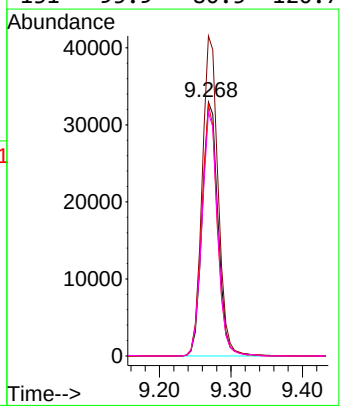
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

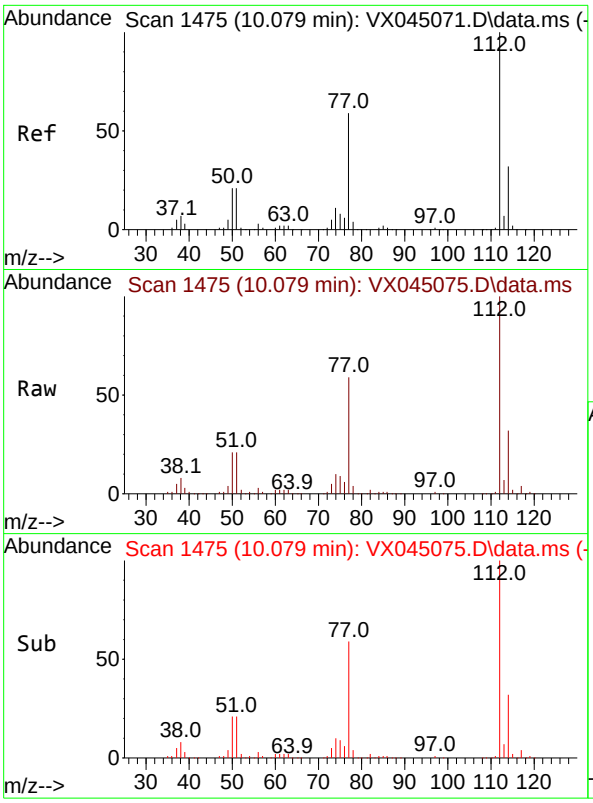


#64
Tetrachloroethene
Concen: 50.126 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:164 Resp: 50659

Ion	Ratio	Lower	Upper
164	100		
166	126.0	103.6	155.4
129	99.0	82.7	124.1
131	95.9	80.5	120.7

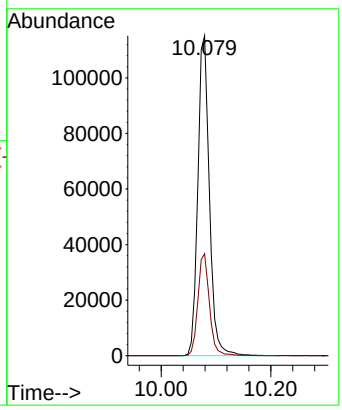




#65
Chlorobenzene
Concen: 50.580 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:112 Resp: 16888

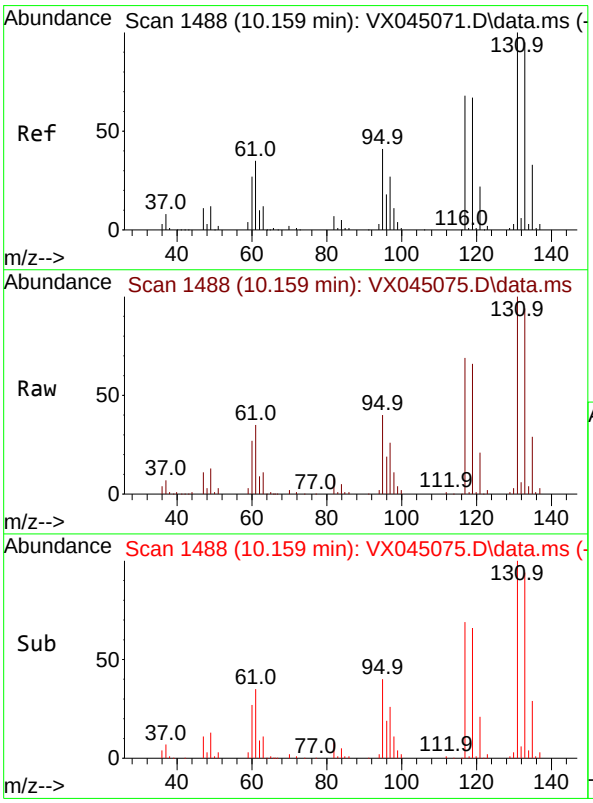
Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

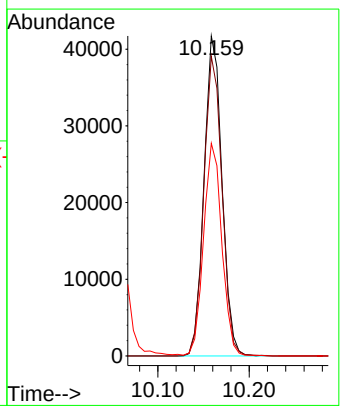
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

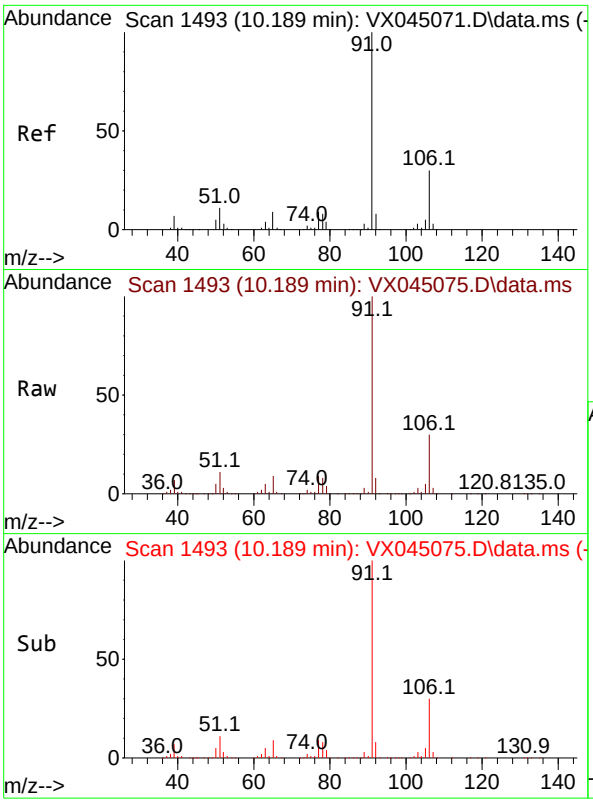


#66
1,1,1,2-Tetrachloroethane
Concen: 51.102 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:131 Resp: 56822

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.6	145.9
119	67.6	33.9	101.7

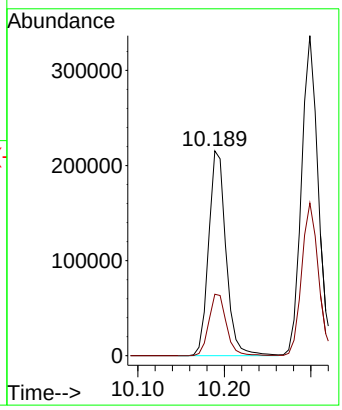




#67
Ethyl Benzene
Concen: 51.621 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 30032

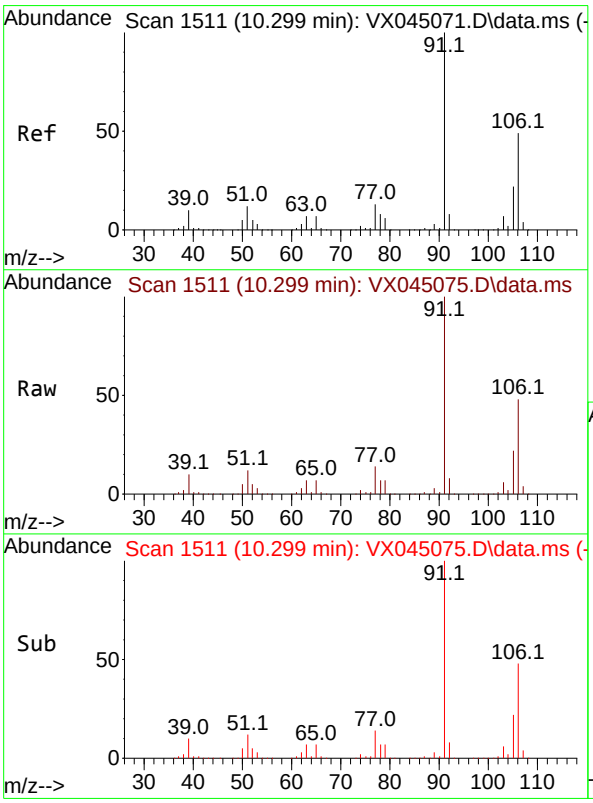
Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

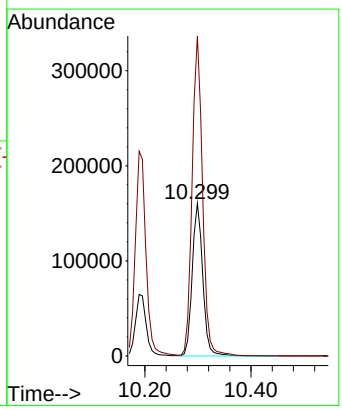
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

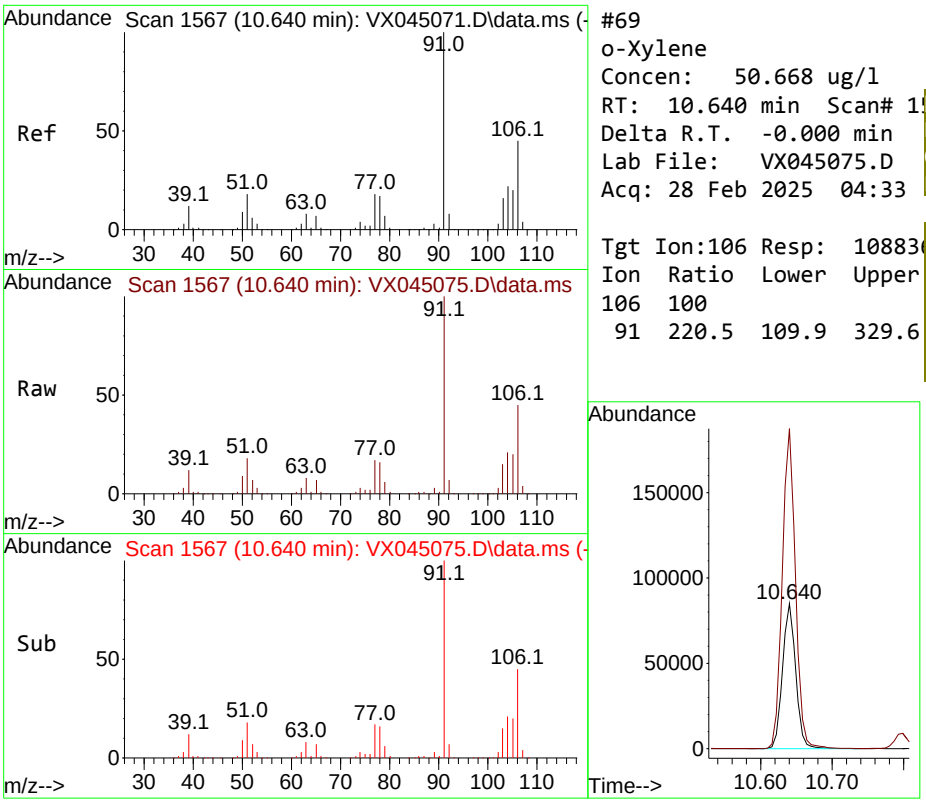


#68
m/p-Xylenes
Concen: 103.454 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:106 Resp: 220335

Ion	Ratio	Lower	Upper
106	100		
91	207.8	165.4	248.0





#69
o-Xylene
Concen: 50.668 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

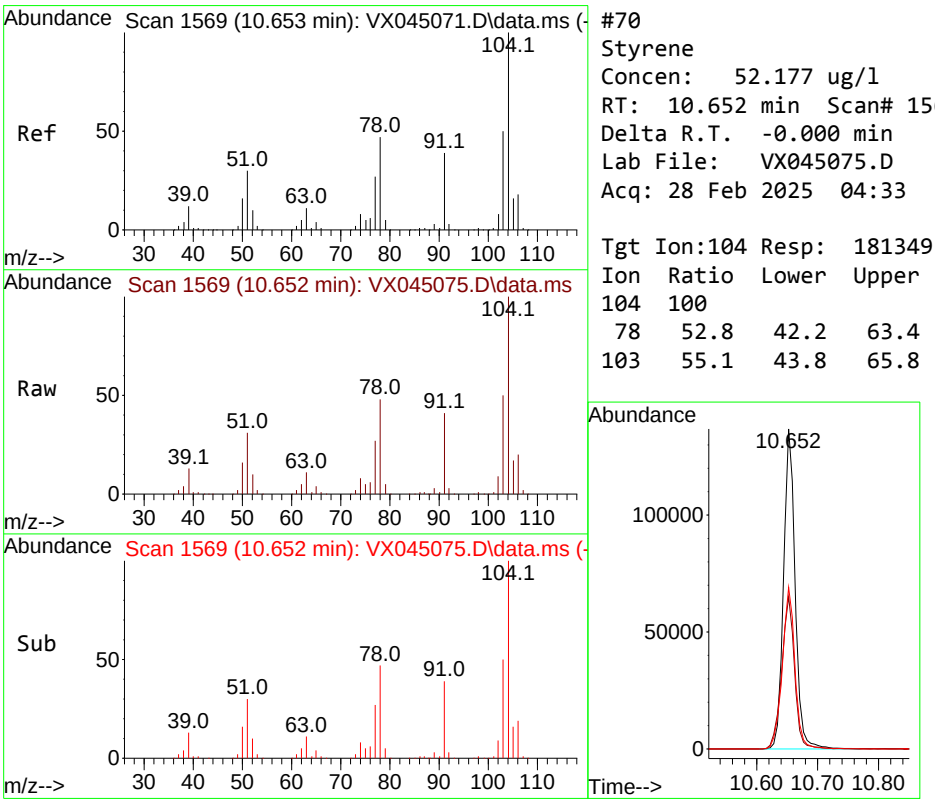
Tgt Ion:106 Resp: 10883

Ion	Ratio	Lower	Upper
106	100		
91	220.5	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

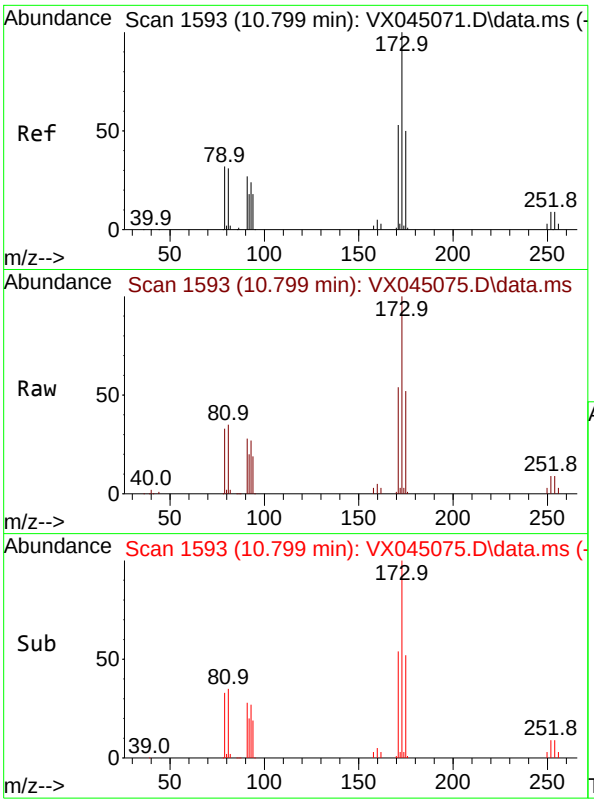
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#70
Styrene
Concen: 52.177 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:104 Resp: 181349

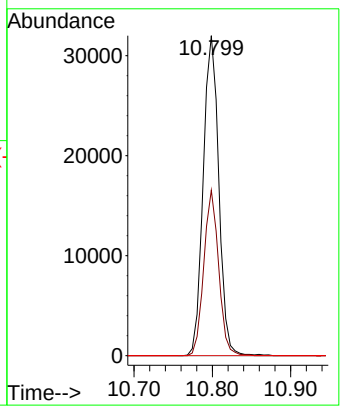
Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	55.1	43.8	65.8



#71
Bromoform
Concen: 52.636 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:173 Resp: 4413

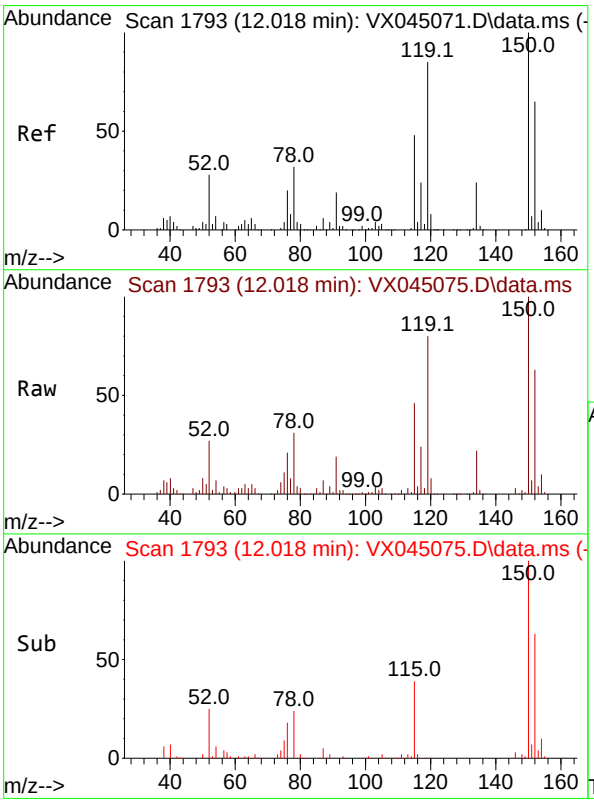
Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

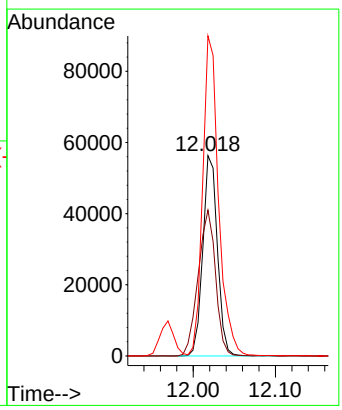
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

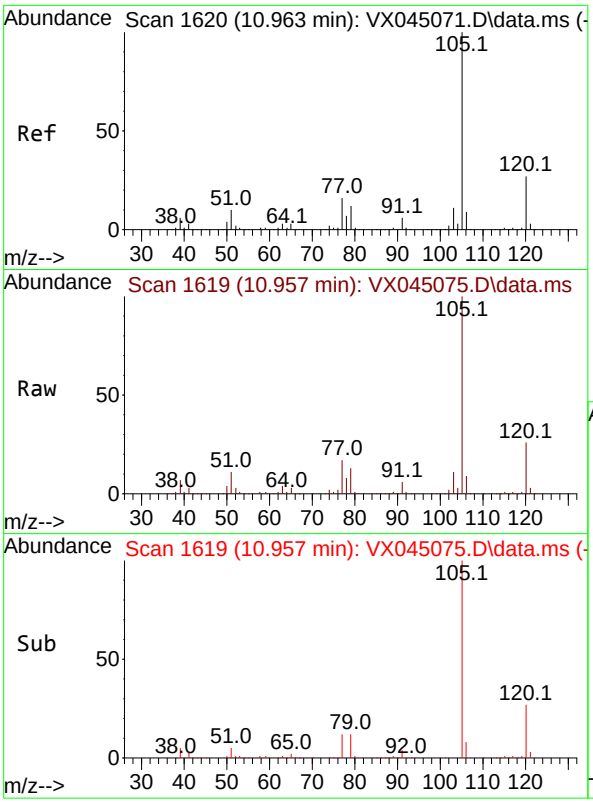


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:152 Resp: 69357

Ion	Ratio	Lower	Upper
152	100		
115	86.9	44.2	132.6
150	174.3	0.0	349.0

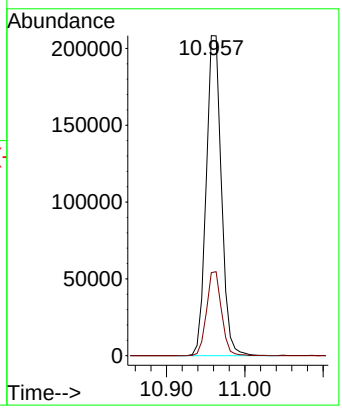




#73
Isopropylbenzene
Concen: 51.589 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 27927

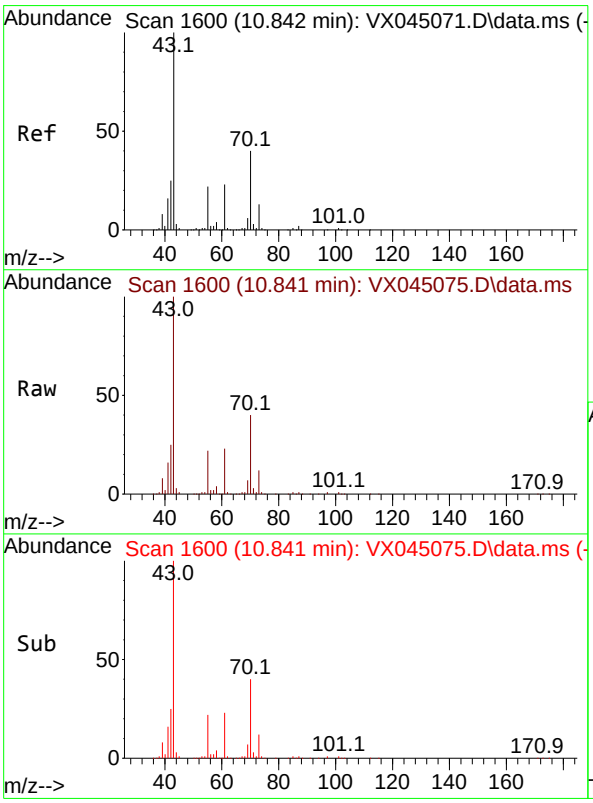
Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

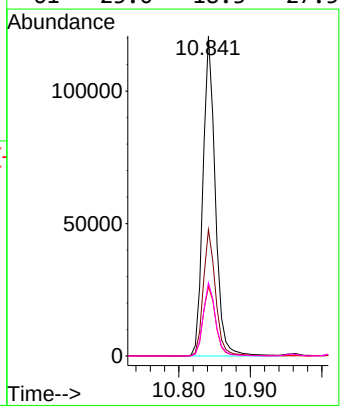
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

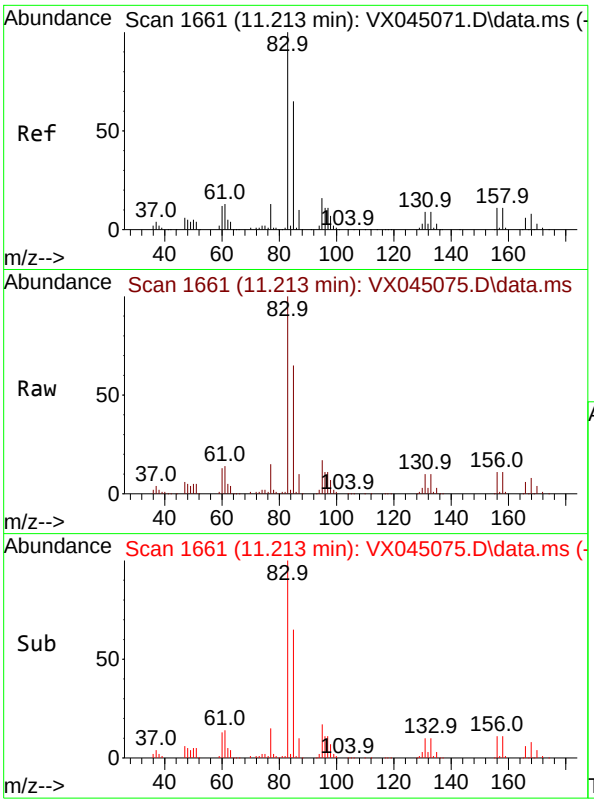


#74
N-amyl acetate
Concen: 56.851 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 144412

Ion	Ratio	Lower	Upper
43	100		
70	39.5	31.8	47.6
55	22.3	18.3	27.5
61	23.0	18.3	27.5

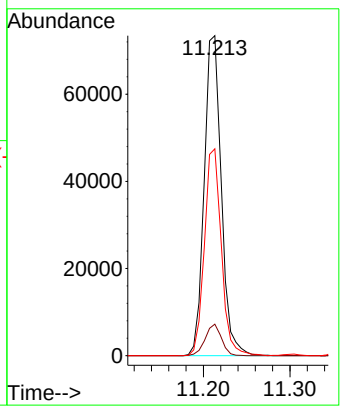




#75
1,1,2,2-Tetrachloroethane
Concen: 50.741 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 10080

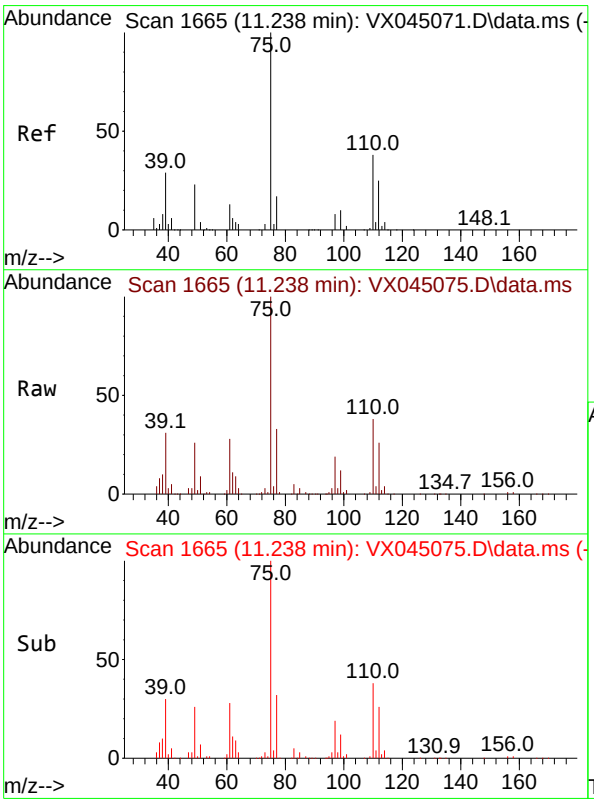
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.4
85	64.0	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

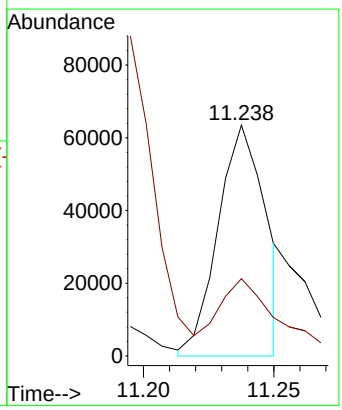
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

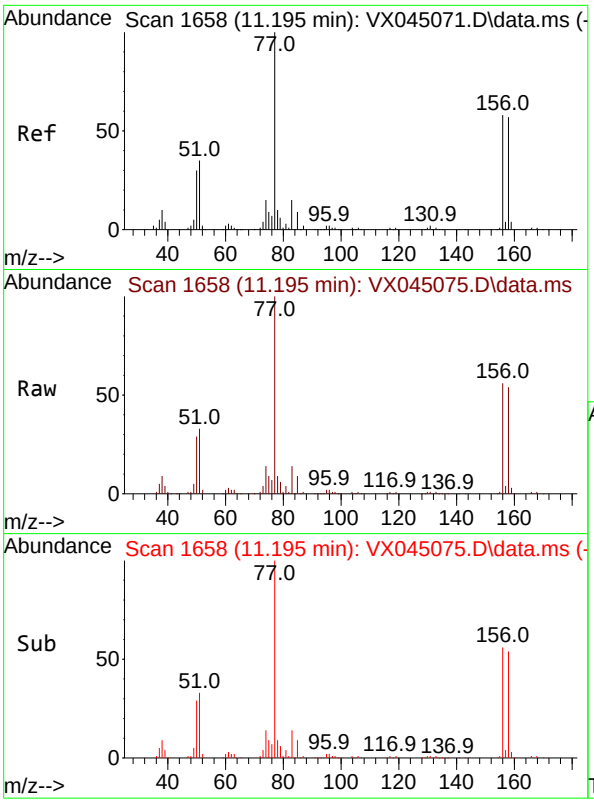


#76
1,2,3-Trichloropropane
Concen: 49.940 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 80618

Ion	Ratio	Lower	Upper
75	100		
77	42.5	20.7	62.1

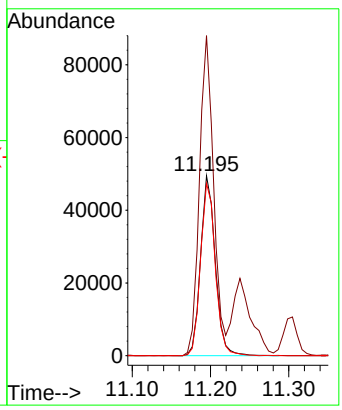




#77
Bromobenzene
Concen: 50.360 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:156 Resp: 6432

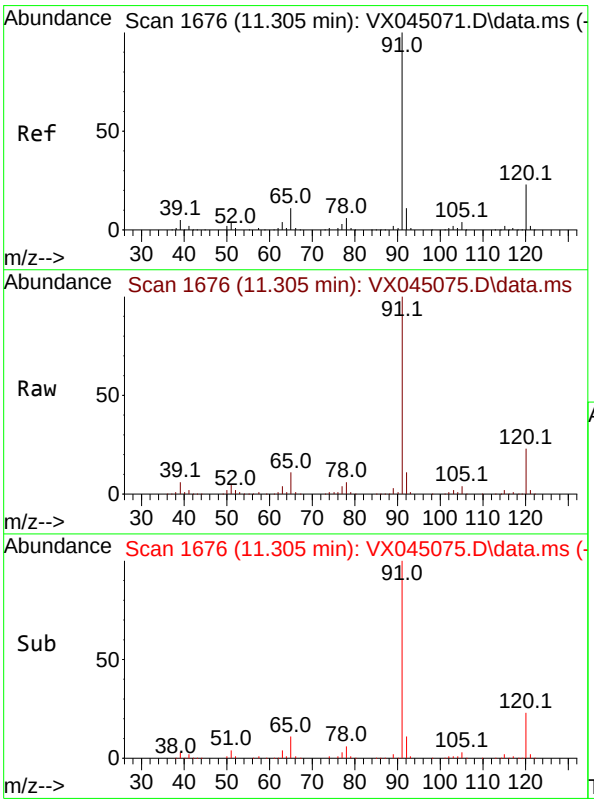
Ion	Ratio	Lower	Upper
156	100		
77	172.1	85.8	257.4
158	96.5	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

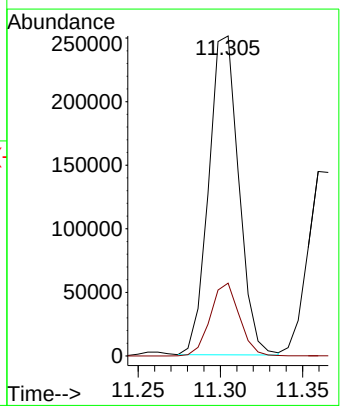
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

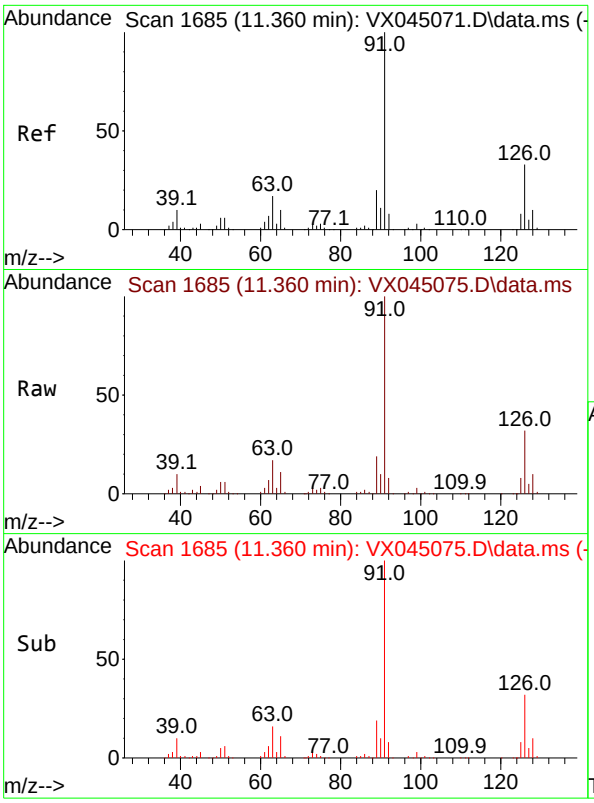


#78
n-propylbenzene
Concen: 52.203 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 319235

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.6

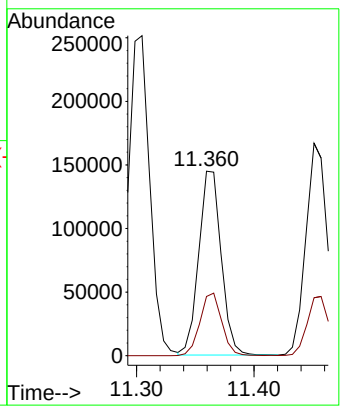




#79
2-Chlorotoluene
Concen: 49.338 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 19215

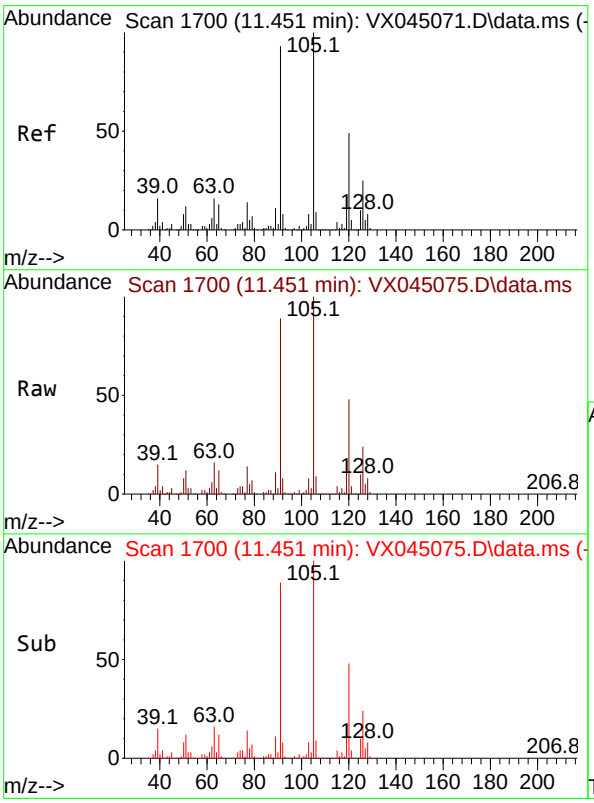
Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

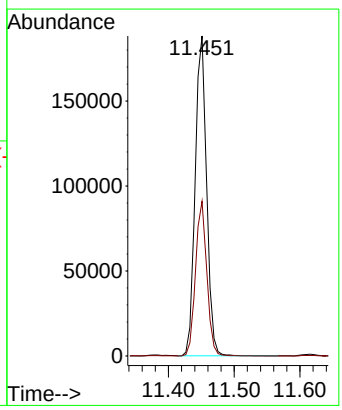
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

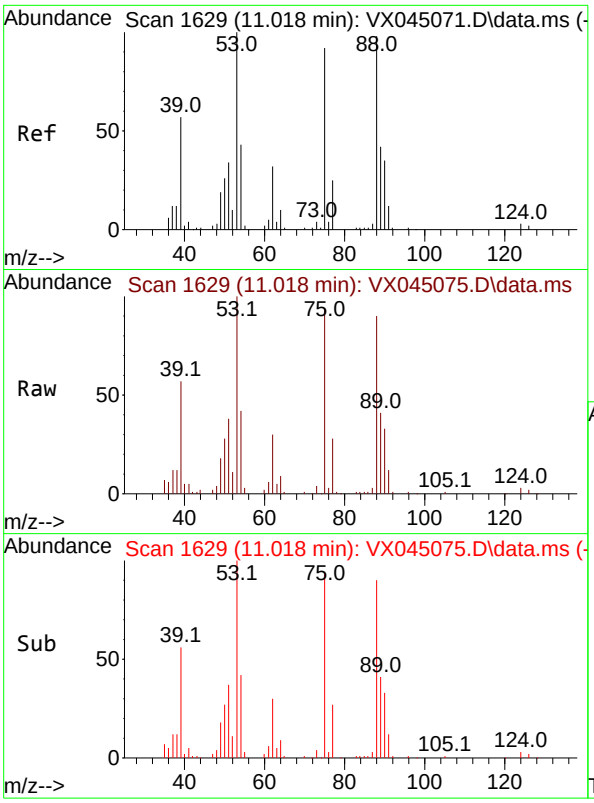


#80
1,3,5-Trimethylbenzene
Concen: 51.544 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 225622

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.1	72.2

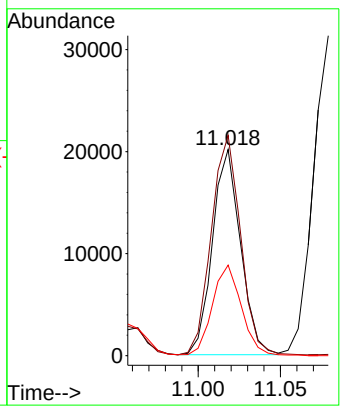




#81
trans-1,4-Dichloro-2-butene
Concen: 50.757 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 2394

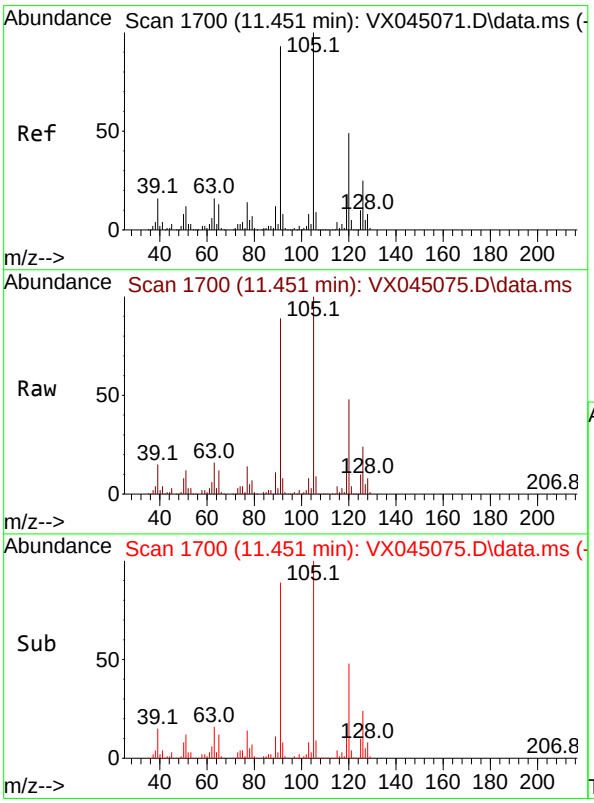
Ion	Ratio	Lower	Upper
75	100		
53	111.4	88.5	132.7
89	45.8	36.2	54.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

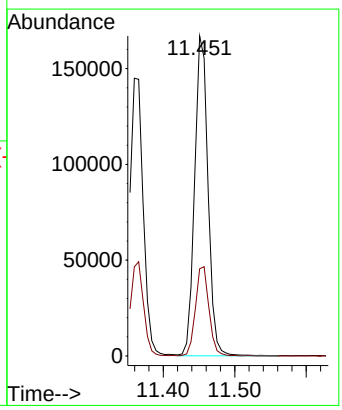
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

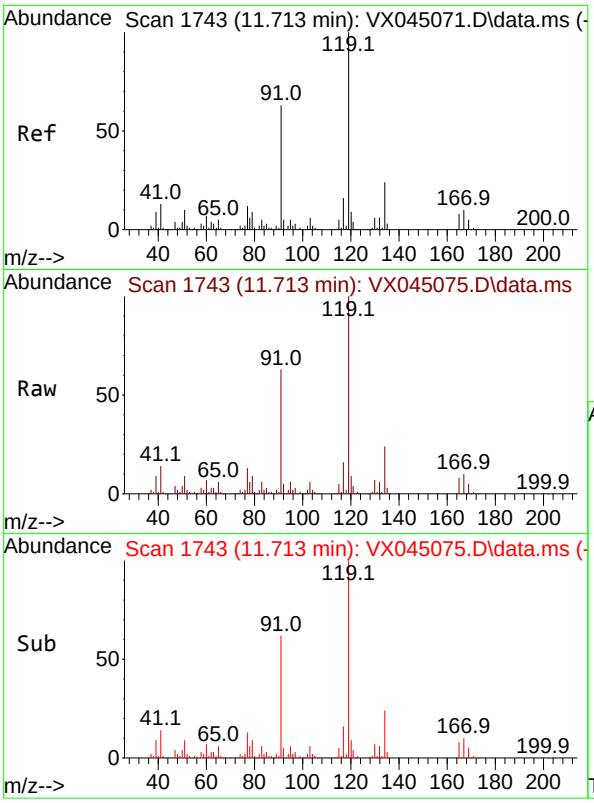


#82
4-Chlorotoluene
Concen: 51.009 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 216511

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.1	42.4

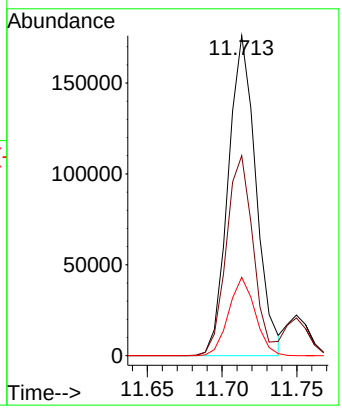




#83
tert-Butylbenzene
Concen: 50.552 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:119 Resp: 22735

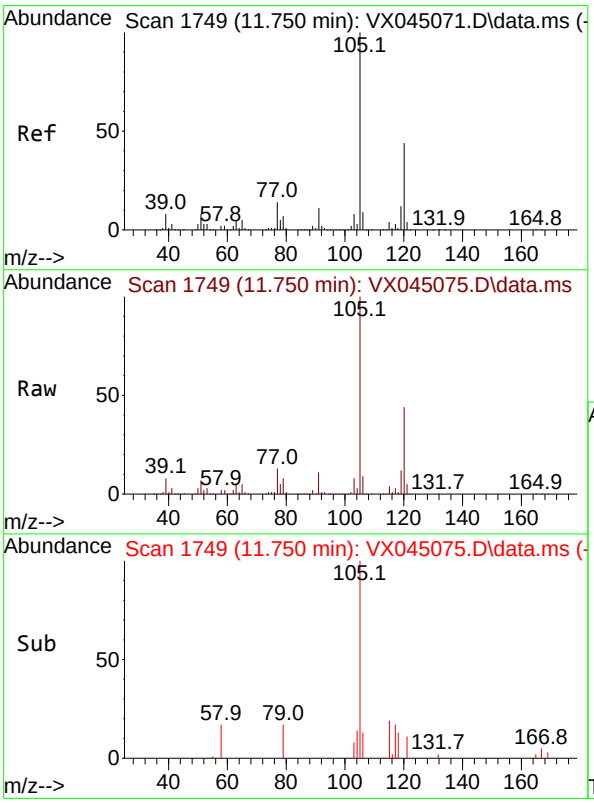
Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.7	92.1
134	23.4	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

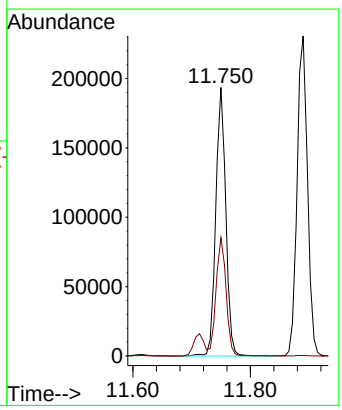
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

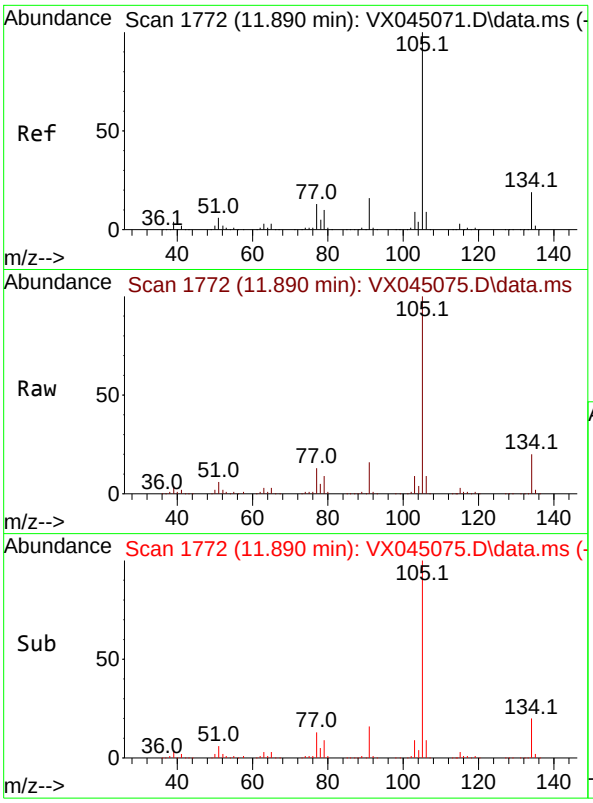


#84
1,2,4-Trimethylbenzene
Concen: 51.932 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 228729

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1

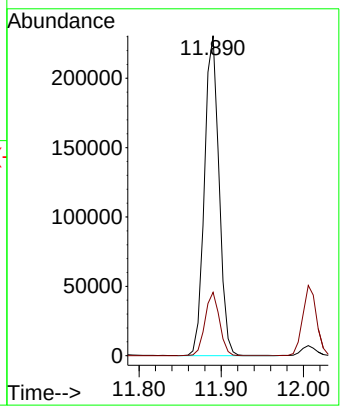




#85
sec-Butylbenzene
Concen: 52.703 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 28393

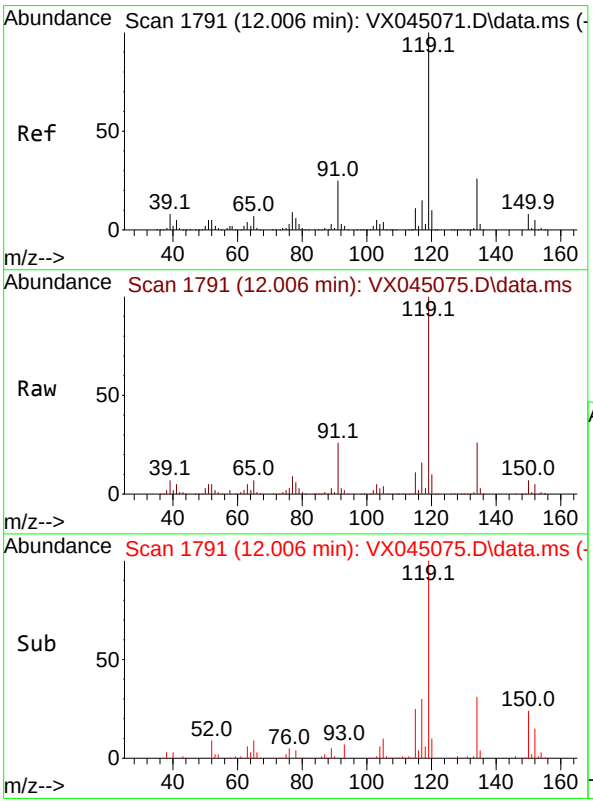
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

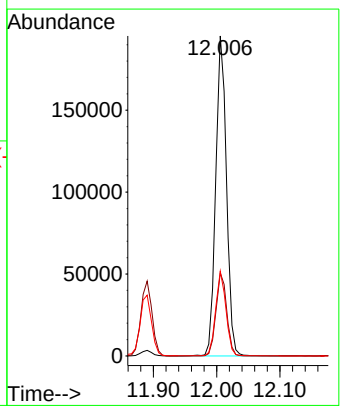
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

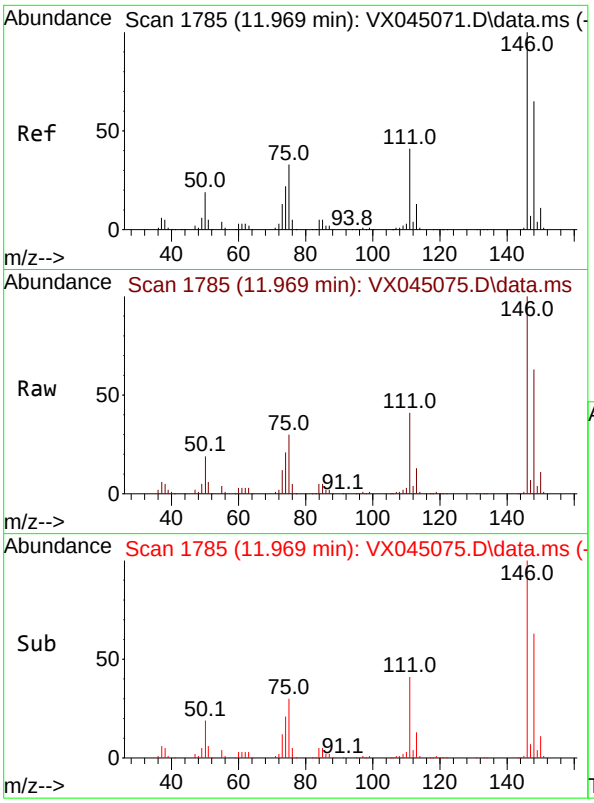


#86
p-Isopropyltoluene
Concen: 52.803 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:119 Resp: 229894

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.6
91	25.3	12.7	38.0

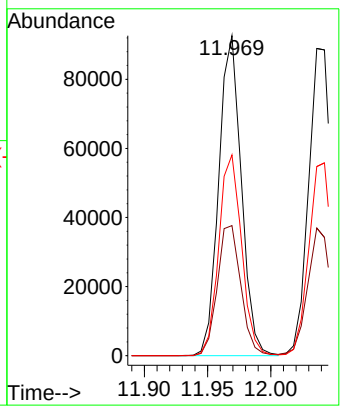




#87
1,3-Dichlorobenzene
Concen: 50.372 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:146 Resp: 11477

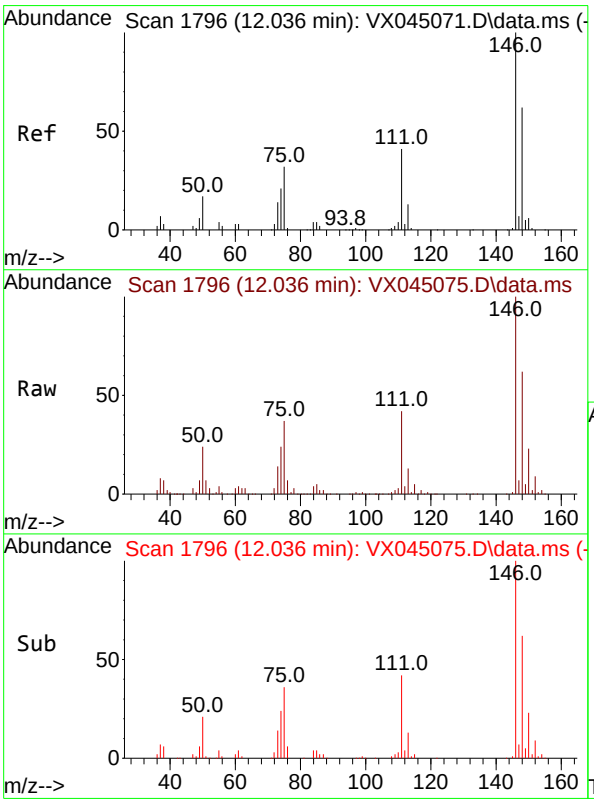
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.1	63.4
148	63.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

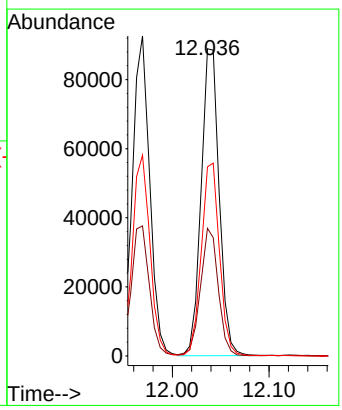
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

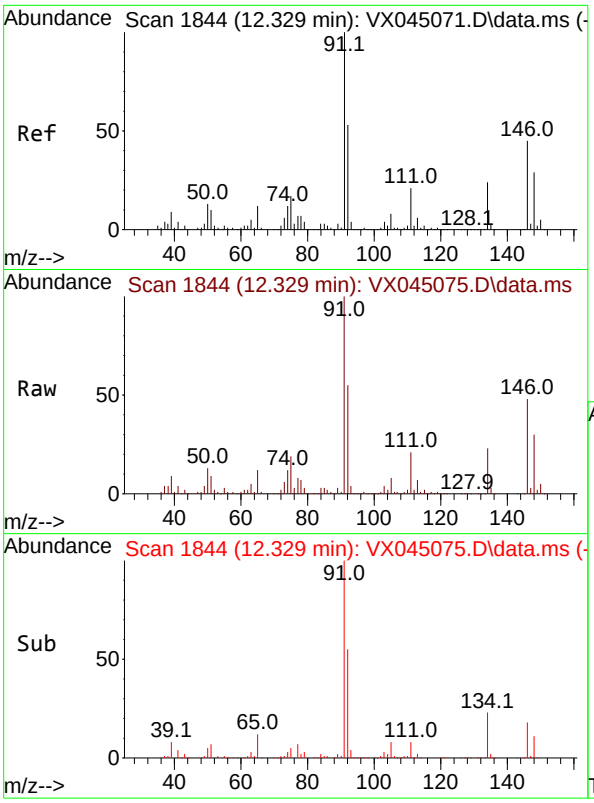


#88
1,4-Dichlorobenzene
Concen: 50.097 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:146 Resp: 115486

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.2	60.5
148	63.0	31.9	95.9

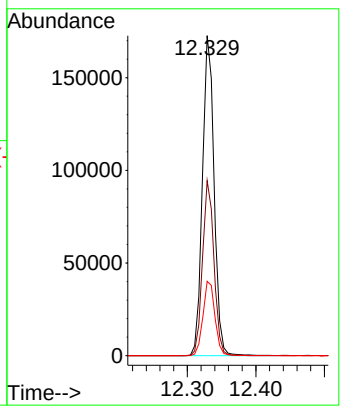




#89
n-Butylbenzene
Concen: 54.662 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 20497

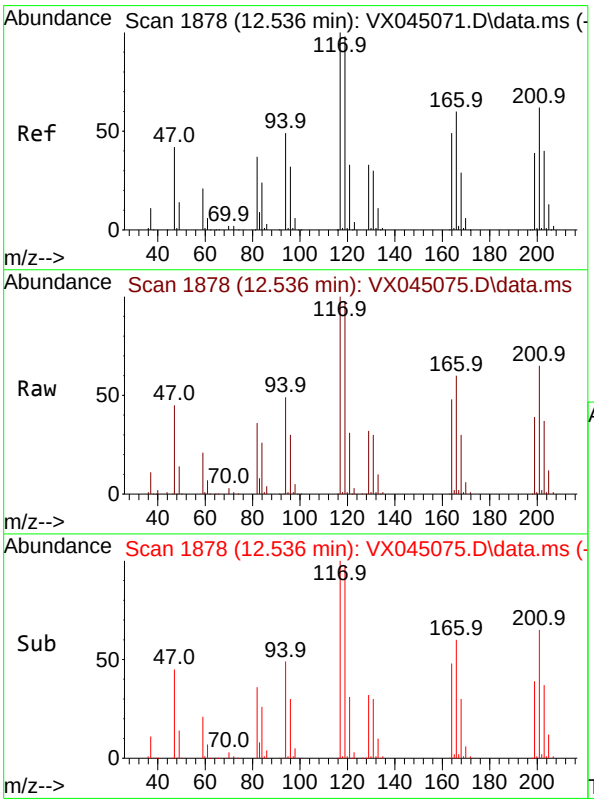
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.7	80.0
134	23.9	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

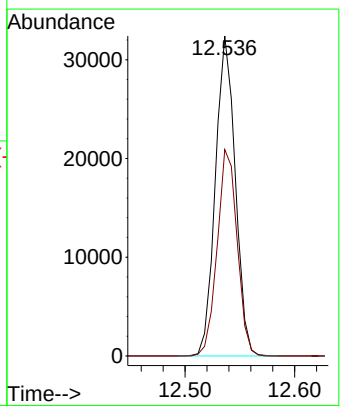
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

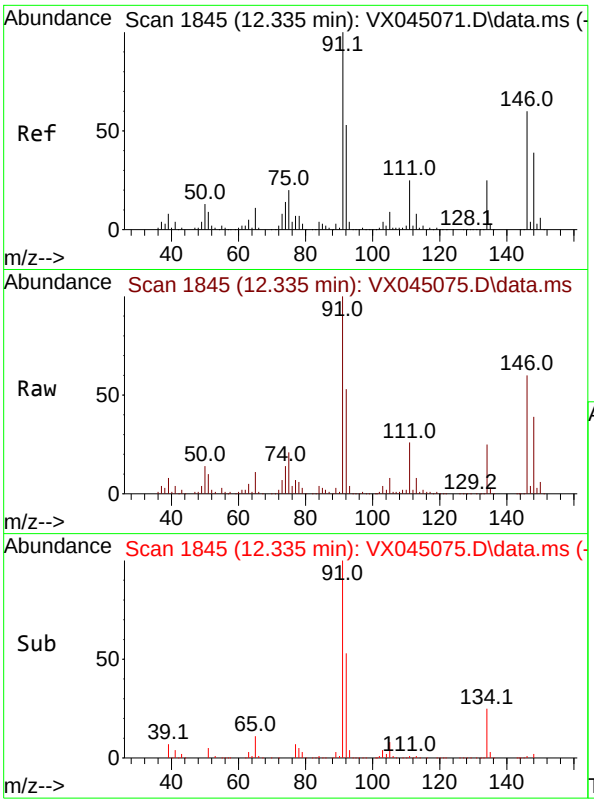


#90
Hexachloroethane
Concen: 51.866 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 40844

Ion	Ratio	Lower	Upper
117	100		
201	64.7	31.9	95.9

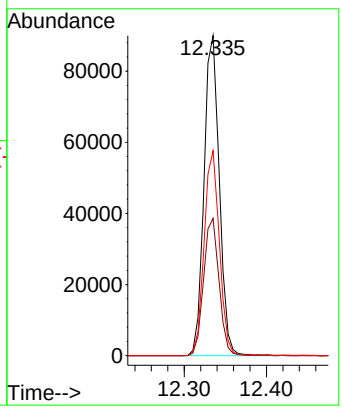




#91
1,2-Dichlorobenzene
Concen: 50.899 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:146 Resp: 11634

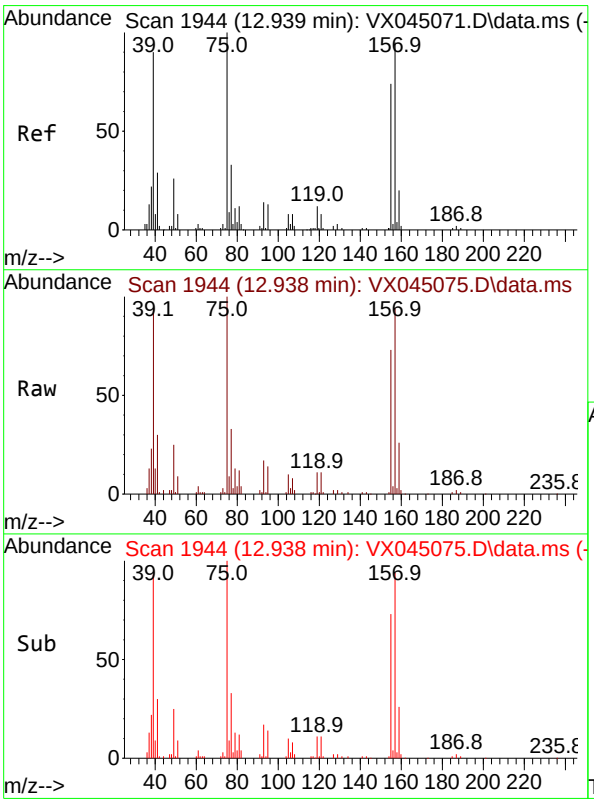
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.6	65.0
148	63.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

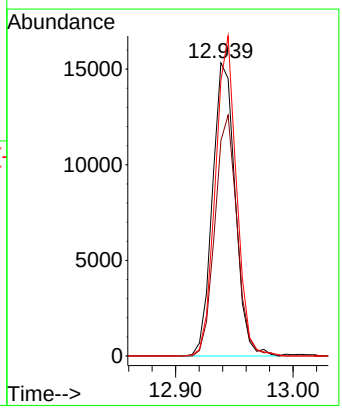
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

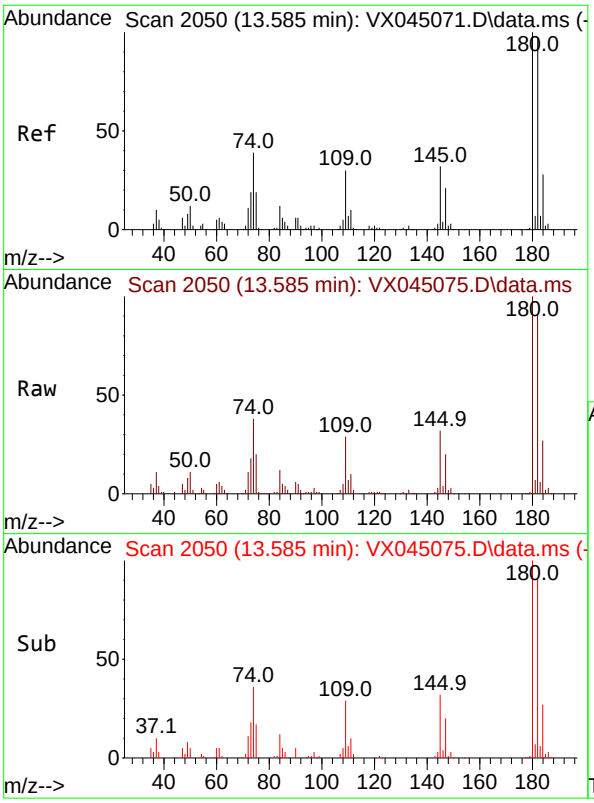


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.199 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 20589

Ion	Ratio	Lower	Upper
75	100		
155	79.8	39.6	118.7
157	101.7	51.1	153.4

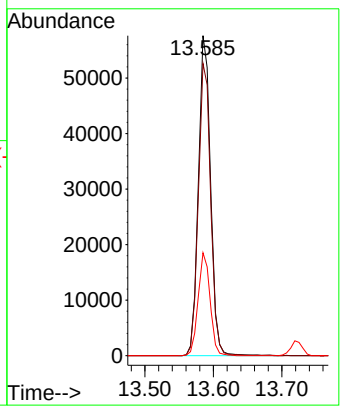




#93
1,2,4-Trichlorobenzene
Concen: 54.834 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:180 Resp: 7136

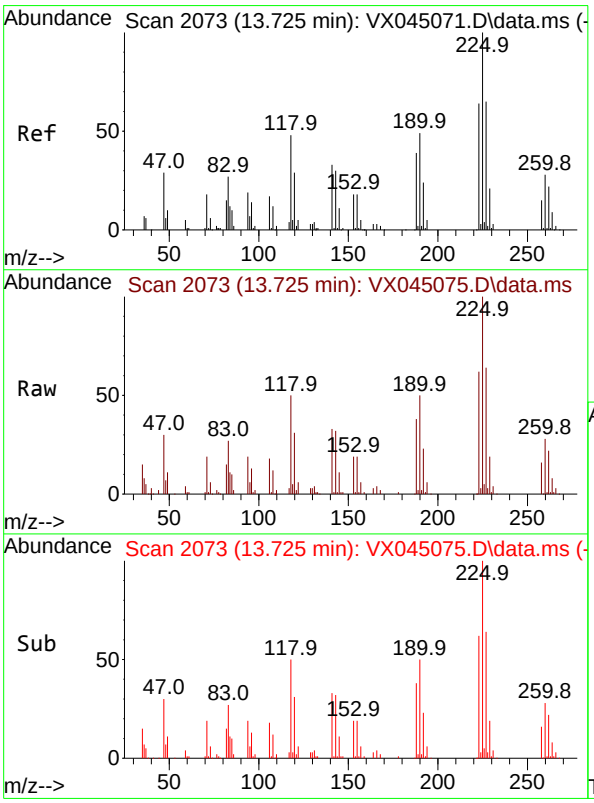
Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.9
145	31.6	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

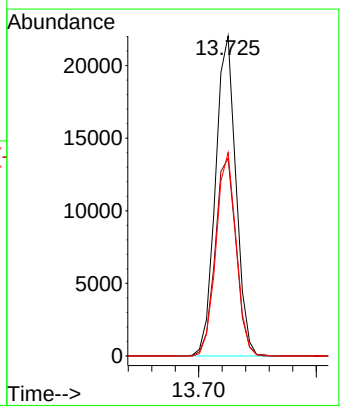
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

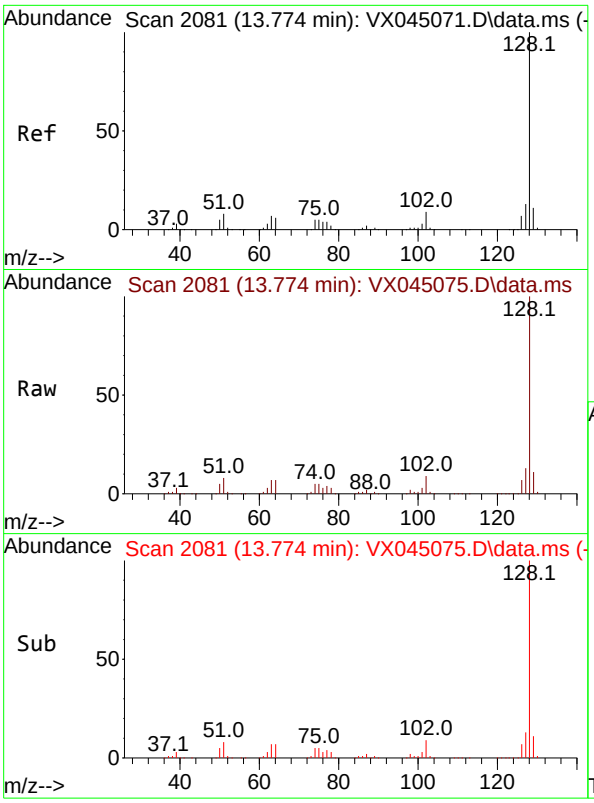


#94
Hexachlorobutadiene
Concen: 50.032 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:225 Resp: 26697

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.7
227	62.4	31.4	94.0

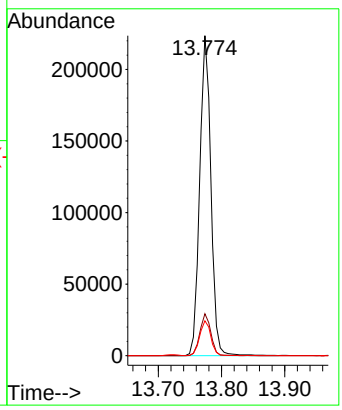




#95
Naphthalene
Concen: 55.163 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:128 Resp: 27584

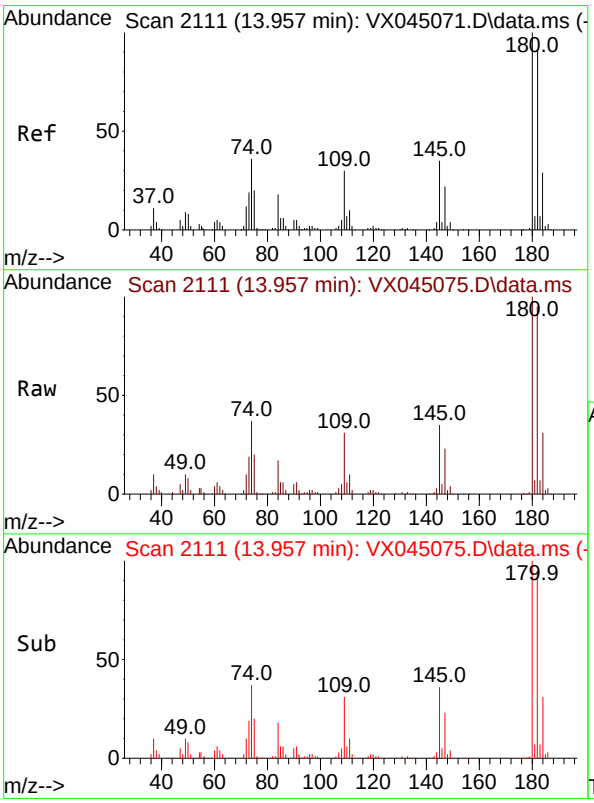
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

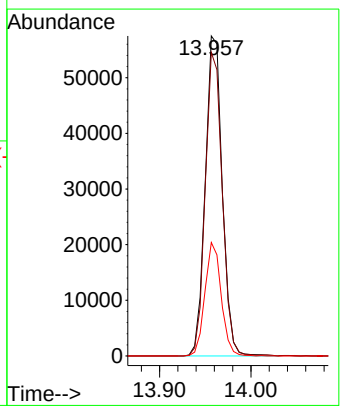
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.049 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:180 Resp: 74211

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.5	142.6
145	33.9	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	0.629	0.603	4.1	95	0.00
3	P	Chloromethane	0.770	0.750	2.6	98	0.00
4	C	Vinyl Chloride	0.764	0.757	0.9#	98	0.00
5	T	Bromomethane	0.300	0.277	7.7	93	0.00
6	T	Chloroethane	0.352	0.296	15.9	78	0.00
7	T	Trichlorofluoromethane	1.011	1.003	0.8	94	0.00
8	T	Diethyl Ether	0.396	0.385	2.8	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.585	-0.7	97	0.00
10	T	Methyl Iodide	0.726	0.734	-1.1	94	0.00
11	T	Tert butyl alcohol	0.151	0.144	4.6	106	0.00
12	CM	1,1-Dichloroethene	0.614	0.609	0.8#	96	0.00
13	T	Acrolein	0.174	0.189	-8.6	107	0.00
14	T	Allyl chloride	1.094	1.131	-3.4	100	0.00
15	T	Acrylonitrile	0.404	0.413	-2.2	99	0.00
16	T	Acetone	0.369	0.358	3.0	100	0.00
17	T	Carbon Disulfide	1.636	1.635	0.1	97	0.00
18	T	Methyl Acetate	0.888	0.893	-0.6	101	0.00
19	T	Methyl tert-butyl Ether	2.061	2.190	-6.3	103	0.00
20	T	Methylene Chloride	0.731	0.726	0.7	102	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.621	-2.3	97	0.00
22	T	Diisopropyl ether	2.224	2.400	-7.9	103	0.00
23	T	Vinyl Acetate	1.856	2.096	-12.9	105	0.00
24	P	1,1-Dichloroethane	1.247	1.276	-2.3	101	0.00
25	T	2-Butanone	0.555	0.587	-5.8	100	0.00
26	T	2,2-Dichloropropane	0.585	0.578	1.2	95	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.773	-3.2	100	0.00
28	T	Bromochloromethane	0.594	0.599	-0.8	98	0.00
29	T	Tetrahydrofuran	0.373	0.385	-3.2	102	0.00
30	C	Chloroform	1.239	1.244	-0.4#	98	0.00
31	T	Cyclohexane	1.082	1.085	-0.3	96	0.00
32	T	1,1,1-Trichloroethane	1.000	1.019	-1.9	98	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.800	-0.6	104	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.334	0.340	-1.8	103	0.00
36	T	1,1-Dichloropropene	0.459	0.447	2.6	95	0.00
37	T	Ethyl Acetate	0.591	0.610	-3.2	100	0.00
38	T	Carbon Tetrachloride	0.465	0.460	1.1	98	0.00
39	T	Methylcyclohexane	0.549	0.562	-2.4	95	0.00
40	TM	Benzene	1.448	1.482	-2.3	98	0.00
41	T	Methacrylonitrile	0.319	0.341	-6.9	99	0.00
42	TM	1,2-Dichloroethane	0.521	0.529	-1.5	99	0.00
43	T	Isopropyl Acetate	0.874	0.951	-8.8	102	0.00
44	TM	Trichloroethene	0.340	0.333	2.1	97	0.00
45	C	1,2-Dichloropropane	0.372	0.380	-2.2#	102	0.00
46	T	Dibromomethane	0.263	0.272	-3.4	100	0.00
47	T	Bromodichloromethane	0.516	0.526	-1.9	99	0.00
48	T	Methyl methacrylate	0.438	0.474	-8.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.010	-11.1	102	0.00
50	S	Toluene-d8	1.212	1.221	-0.7	100	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.610	-3.9	99	0.00
52	CM	Toluene	0.849	0.867	-2.1#	96	0.00
53	T	t-1,3-Dichloropropene	0.431	0.468	-8.6	99	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.531	-5.6	98	0.00
55	T	1,1,2-Trichloroethane	0.350	0.351	-0.3	98	0.00
56	T	Ethyl methacrylate	0.532	0.575	-8.1	100	0.00
57	T	1,3-Dichloropropane	0.605	0.621	-2.6	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.286	-10.4	100	0.00
59	T	2-Hexanone	0.425	0.451	-6.1	100	0.00
60	T	Dibromochloromethane	0.366	0.376	-2.7	97	0.00
61	T	1,2-Dibromoethane	0.349	0.360	-3.2	100	0.00
62	S	4-Bromofluorobenzene	0.402	0.396	1.5	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.320	0.321	-0.3	96	0.00
65	PM	Chlorobenzene	1.058	1.070	-1.1	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.360	-2.3	99	0.00
67	C	Ethyl Benzene	1.843	1.903	-3.3#	95	0.00
68	T	m/p-Xylenes	0.675	0.698	-3.4	94	0.00
69	T	o-Xylene	0.681	0.690	-1.3	95	0.00
70	T	Styrene	1.101	1.149	-4.4	95	0.00
71	P	Bromoform	0.266	0.280	-5.3	99	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.903	4.027	-3.2	95	0.00
74	T	N-amyl acetate	1.831	2.082	-13.7	103	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.453	-1.5	100	0.00
76	T	1,2,3-Trichloropropane	1.164	1.162	0.2	99	0.00
77	T	Bromobenzene	0.921	0.927	-0.7	96	0.00
78	T	n-propylbenzene	4.409	4.603	-4.4	93	0.00
79	T	2-Chlorotoluene	2.808	2.770	1.4	94	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.253	-3.1	94	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.345	-1.5	99	0.00
82	T	4-Chlorotoluene	3.060	3.122	-2.0	94	0.00
83	T	tert-Butylbenzene	3.242	3.278	-1.1	95	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.298	-3.9	95	0.00
85	T	sec-Butylbenzene	3.884	4.094	-5.4	95	0.00
86	T	p-Isopropyltoluene	3.139	3.315	-5.6	94	0.00
87	T	1,3-Dichlorobenzene	1.643	1.655	-0.7	97	0.00
88	T	1,4-Dichlorobenzene	1.662	1.665	-0.2	96	0.00
89	T	n-Butylbenzene	2.703	2.955	-9.3	95	0.00
90	T	Hexachloroethane	0.568	0.589	-3.7	95	0.00
91	T	1,2-Dichlorobenzene	1.648	1.677	-1.8	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.297	-6.5	100	0.00
93	T	1,2,4-Trichlorobenzene	0.938	1.029	-9.7	99	0.00
94	T	Hexachlorobutadiene	0.385	0.385	0.0	96	0.00
95	T	Naphthalene	3.605	3.977	-10.3	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.070	-8.1	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	47.933	4.1	95	0.00
3	P	Chloromethane	50.000	48.696	2.6	98	0.00
4	C	Vinyl Chloride	50.000	49.529	0.9#	98	0.00
5	T	Bromomethane	50.000	46.190	7.6	93	0.00
6	T	Chloroethane	50.000	41.948	16.1	78	0.00
7	T	Trichlorofluoromethane	50.000	49.569	0.9	94	0.00
8	T	Diethyl Ether	50.000	48.651	2.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.367	-0.7	97	0.00
10	T	Methyl Iodide	50.000	50.541	-1.1	94	0.00
11	T	Tert butyl alcohol	250.000	238.577	4.6	106	0.00
12	CM	1,1-Dichloroethene	50.000	49.568	0.9#	96	0.00
13	T	Acrolein	250.000	271.255	-8.5	107	0.00
14	T	Allyl chloride	50.000	51.691	-3.4	100	0.00
15	T	Acrylonitrile	250.000	255.479	-2.2	99	0.00
16	T	Acetone	250.000	242.877	2.8	100	0.00
17	T	Carbon Disulfide	50.000	49.952	0.1	97	0.00
18	T	Methyl Acetate	50.000	50.312	-0.6	101	0.00
19	T	Methyl tert-butyl Ether	50.000	53.114	-6.2	103	0.00
20	T	Methylene Chloride	50.000	49.639	0.7	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.172	-2.3	97	0.00
22	T	Diisopropyl ether	50.000	53.955	-7.9	103	0.00
23	T	Vinyl Acetate	250.000	282.313	-12.9	105	0.00
24	P	1,1-Dichloroethane	50.000	51.190	-2.4	101	0.00
25	T	2-Butanone	250.000	264.040	-5.6	100	0.00
26	T	2,2-Dichloropropane	50.000	49.401	1.2	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.606	-3.2	100	0.00
28	T	Bromochloromethane	50.000	50.399	-0.8	98	0.00
29	T	Tetrahydrofuran	250.000	258.277	-3.3	102	0.00
30	C	Chloroform	50.000	50.236	-0.5#	98	0.00
31	T	Cyclohexane	50.000	50.158	-0.3	96	0.00
32	T	1,1,1-Trichloroethane	50.000	50.939	-1.9	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.297	-0.6	104	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	50.841	-1.7	103	0.00
36	T	1,1-Dichloropropene	50.000	48.770	2.5	95	0.00
37	T	Ethyl Acetate	50.000	51.596	-3.2	100	0.00
38	T	Carbon Tetrachloride	50.000	49.425	1.2	98	0.00
39	T	Methylcyclohexane	50.000	51.169	-2.3	95	0.00
40	TM	Benzene	50.000	51.195	-2.4	98	0.00
41	T	Methacrylonitrile	50.000	53.352	-6.7	99	0.00
42	TM	1,2-Dichloroethane	50.000	50.718	-1.4	99	0.00
43	T	Isopropyl Acetate	50.000	54.452	-8.9	102	0.00
44	TM	Trichloroethene	50.000	48.924	2.2	97	0.00
45	C	1,2-Dichloropropane	50.000	51.086	-2.2#	102	0.00
46	T	Dibromomethane	50.000	51.661	-3.3	100	0.00
47	T	Bromodichloromethane	50.000	50.930	-1.9	99	0.00
48	T	Methyl methacrylate	50.000	54.016	-8.0	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1049.007	-4.9	102	0.00
50	S	Toluene-d8	50.000	50.364	-0.7	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	259.995	-4.0	99	0.00
52	CM	Toluene	50.000	51.020	-2.0#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	54.247	-8.5	99	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.732	-5.5	98	0.00
55	T	1,1,2-Trichloroethane	50.000	50.232	-0.5	98	0.00
56	T	Ethyl methacrylate	50.000	54.109	-8.2	100	0.00
57	T	1,3-Dichloropropane	50.000	51.312	-2.6	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	275.557	-10.2	100	0.00
59	T	2-Hexanone	250.000	265.049	-6.0	100	0.00
60	T	Dibromochloromethane	50.000	51.374	-2.7	97	0.00
61	T	1,2-Dibromoethane	50.000	51.492	-3.0	100	0.00
62	S	4-Bromofluorobenzene	50.000	49.240	1.5	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	50.126	-0.3	96	0.00
65	PM	Chlorobenzene	50.000	50.580	-1.2	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.102	-2.2	99	0.00
67	C	Ethyl Benzene	50.000	51.621	-3.2#	95	0.00
68	T	m/p-Xylenes	100.000	103.454	-3.5	94	0.00
69	T	o-Xylene	50.000	50.668	-1.3	95	0.00
70	T	Styrene	50.000	52.177	-4.4	95	0.00
71	P	Bromoform	50.000	52.636	-5.3	99	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	51.589	-3.2	95	0.00
74	T	N-amyl acetate	50.000	56.851	-13.7	103	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.741	-1.5	100	0.00
76	T	1,2,3-Trichloropropane	50.000	49.940	0.1	99	0.00
77	T	Bromobenzene	50.000	50.360	-0.7	96	0.00
78	T	n-propylbenzene	50.000	52.203	-4.4	93	0.00
79	T	2-Chlorotoluene	50.000	49.338	1.3	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.544	-3.1	94	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.757	-1.5	99	0.00
82	T	4-Chlorotoluene	50.000	51.009	-2.0	94	0.00
83	T	tert-Butylbenzene	50.000	50.552	-1.1	95	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.932	-3.9	95	0.00
85	T	sec-Butylbenzene	50.000	52.703	-5.4	95	0.00
86	T	p-Isopropyltoluene	50.000	52.803	-5.6	94	0.00
87	T	1,3-Dichlorobenzene	50.000	50.372	-0.7	97	0.00
88	T	1,4-Dichlorobenzene	50.000	50.097	-0.2	96	0.00
89	T	n-Butylbenzene	50.000	54.662	-9.3	95	0.00
90	T	Hexachloroethane	50.000	51.866	-3.7	95	0.00
91	T	1,2-Dichlorobenzene	50.000	50.899	-1.8	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.199	-6.4	100	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.834	-9.7	99	0.00
94	T	Hexachlorobutadiene	50.000	50.032	-0.1	96	0.00
95	T	Naphthalene	50.000	55.163	-10.3	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.049	-8.1	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2025 11:31

Lab File ID: VX045431.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.798		26.87	20
Chloromethane	0.770	0.804	0.1	4.42	20
Vinyl Chloride	0.764	0.720		-5.76	20
Bromomethane	0.300	0.346		15.33	20
Chloroethane	0.352	0.394		11.93	20
Trichlorofluoromethane	1.012	1.093		8	20
1,1,2-Trichlorotrifluoroethane	0.581	0.699		20.31	20
1,1-Dichloroethene	0.614	0.651		6.03	20
Acetone	0.369	0.394		6.78	20
Carbon Disulfide	1.636	1.643		0.43	20
Methyl tert-butyl Ether	2.061	2.180		5.77	20
Methyl Acetate	0.888	0.856		-3.6	20
Methylene Chloride	0.731	0.729		-0.27	20
trans-1,2-Dichloroethene	0.607	0.641		5.6	20
1,1-Dichloroethane	1.247	1.311	0.1	5.13	20
Cyclohexane	1.082	1.188		9.8	20
2-Butanone	0.555	0.596		7.39	20
Carbon Tetrachloride	0.465	0.558		20	20
cis-1,2-Dichloroethene	0.749	0.773		3.2	20
Bromochloromethane	0.594	0.584		-1.68	20
Chloroform	1.239	1.317		6.3	20
1,1,1-Trichloroethane	1.000	1.132		13.2	20
Methylcyclohexane	0.549	0.674		22.77	20
Benzene	1.448	1.547		6.84	20
1,2-Dichloroethane	0.521	0.624		19.77	20
Trichloroethene	0.340	0.365		7.35	20
1,2-Dichloropropane	0.372	0.390		4.84	20
Bromodichloromethane	0.516	0.591		14.53	20
4-Methyl-2-Pentanone	0.587	0.681		16.01	20
Toluene	0.849	0.944		11.19	20
t-1,3-Dichloropropene	0.431	0.547		26.91	20
cis-1,3-Dichloropropene	0.503	0.610		21.27	20
1,1,2-Trichloroethane	0.350	0.370		5.71	20
2-Hexanone	0.425	0.519		22.12	20
Dibromochloromethane	0.366	0.425		16.12	20
1,2-Dibromoethane	0.349	0.390		11.75	20
Tetrachloroethene	0.320	0.353		10.31	20
Chlorobenzene	1.058	1.130	0.3	6.8	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2025 11:31

Lab File ID: VX045431.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	2.068		12.21	20
m/p-Xylenes	0.675	0.760		12.59	20
o-Xylene	0.681	0.753		10.57	20
Styrene	1.101	1.269		15.26	20
Bromoform	0.266	0.306	0.1	15.04	20
Isopropylbenzene	3.903	4.076		4.43	20
1,1,2,2-Tetrachloroethane	1.432	1.422	0.3	-0.7	20
1,3-Dichlorobenzene	1.643	1.755		6.82	20
1,4-Dichlorobenzene	1.662	1.732		4.15	20
1,2-Dichlorobenzene	1.648	1.733		5.16	20
1,2-Dibromo-3-Chloropropane	0.279	0.323		15.77	20
1,2,4-Trichlorobenzene	0.938	1.047		11.62	20
1,2,3-Trichlorobenzene	0.990	1.048		5.86	20
1,2-Dichloroethane-d4	0.795	0.876		10.19	20
Dibromofluoromethane	0.334	0.368		10.18	20
Toluene-d8	1.212	1.260		3.96	20
4-Bromofluorobenzene	0.402	0.481		19.65	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	83260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	144945	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129576	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63016	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72923	55.062	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.120%			
35) Dibromofluoromethane	5.385	113	53282	54.975	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.940%			
50) Toluene-d8	8.647	98	182626	51.975	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.960%			
62) 4-Bromofluorobenzene	11.079	95	69681	59.846	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 119.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	66436	63.390	ug/l	93
3) Chloromethane	1.307	50	66903	52.163	ug/l	95
4) Vinyl Chloride	1.374	62	59965	47.130	ug/l	96
5) Bromomethane	1.593	94	28781	57.542	ug/l	97
6) Chloroethane	1.666	64	32807	55.901	ug/l	95
7) Trichlorofluoromethane	1.874	101	91006	54.030	ug/l	97
8) Diethyl Ether	2.130	74	29617	44.955	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	58221	60.165	ug/l	98
10) Methyl Iodide	2.441	142	68492	56.637	ug/l	94
11) Tert butyl alcohol	2.977	59	55509	221.277	ug/l	96
12) 1,1-Dichloroethene	2.306	96	54221	52.997	ug/l	96
13) Acrolein	2.233	56	77829	268.391	ug/l	98
14) Allyl chloride	2.654	41	101764	55.879	ug/l	92
15) Acrylonitrile	3.062	53	168372	250.432	ug/l	99
16) Acetone	2.386	43	164112	267.080	ug/l	97
17) Carbon Disulfide	2.502	76	136796	50.201	ug/l	98
18) Methyl Acetate	2.703	43	71289	48.227	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	181535	52.888	ug/l	97
20) Methylene Chloride	2.782	84	60694	49.864	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	53348	52.781	ug/l	97
22) Diisopropyl ether	3.757	45	192840	52.066	ug/l #	86
23) Vinyl Acetate	3.715	43	885598	286.525	ug/l	98
24) 1,1-Dichloroethane	3.605	63	109159	52.589	ug/l	100
25) 2-Butanone	4.556	43	248088	268.225	ug/l	96
26) 2,2-Dichloropropane	4.471	77	80649	82.834	ug/l	94
27) cis-1,2-Dichloroethene	4.483	96	64325	51.554	ug/l	92
28) Bromochloromethane	4.891	49	48619	49.141	ug/l	98
29) Tetrahydrofuran	5.001	42	155653	250.594	ug/l	99
30) Chloroform	5.086	83	109652	53.166	ug/l	99
31) Cyclohexane	5.458	56	98942	54.912	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	94214	56.559	ug/l	98
36) 1,1-Dichloropropene	5.684	75	74619	56.139	ug/l	100
37) Ethyl Acetate	4.708	43	92765	54.162	ug/l	98
38) Carbon Tetrachloride	5.666	117	80811	59.885	ug/l	97
39) Methylcyclohexane	7.373	83	97660	61.319	ug/l	96
40) Benzene	6.031	78	224248	53.428	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	51574	55.689	ug/l		98
42) 1,2-Dichloroethane	6.080	62	90507	59.882	ug/l		96
43) Isopropyl Acetate	6.336	43	146064	57.673	ug/l		98
44) Trichloroethene	7.117	130	52842	53.617	ug/l		100
45) 1,2-Dichloropropane	7.428	63	56590	52.440	ug/l		98
46) Dibromomethane	7.574	93	43826	57.458	ug/l		96
47) Bromodichloromethane	7.818	83	85701	57.282	ug/l		99
48) Methyl methacrylate	7.690	41	75819	59.672	ug/l		93
49) 1,4-Dioxane	7.653	88	28313	1056.380	ug/l		94
51) 4-Methyl-2-Pentanone	8.574	43	493305	290.090	ug/l		99
52) Toluene	8.714	92	136895	55.590	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	79234	63.348	ug/l		96
54) cis-1,3-Dichloropropene	8.360	75	88476	60.662	ug/l		92
55) 1,1,2-Trichloroethane	9.147	97	53576	52.847	ug/l		99
56) Ethyl methacrylate	9.116	69	90431	58.682	ug/l		92
57) 1,3-Dichloropropane	9.305	76	94299	53.749	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	224245	298.307	ug/l		100
59) 2-Hexanone	9.427	43	376299	305.413	ug/l		98
60) Dibromochloromethane	9.519	129	61649	58.159	ug/l		100
61) 1,2-Dibromoethane	9.604	107	56497	55.824	ug/l		99
64) Tetrachloroethene	9.269	164	45803	55.192	ug/l		96
65) Chlorobenzene	10.079	112	146378	53.387	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	50276	55.062	ug/l		97
67) Ethyl Benzene	10.189	91	267992	56.096	ug/l		98
68) m/p-Xylenes	10.299	106	196944	112.611	ug/l		95
69) o-Xylene	10.640	106	97592	55.328	ug/l		98
70) Styrene	10.653	104	164378	57.595	ug/l		97
71) Bromoform	10.799	173	39593	57.503	ug/l	#	99
73) Isopropylbenzene	10.957	105	256869	52.224	ug/l		99
74) N-amyl acetate	10.842	43	132920	57.592	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	89603	49.643	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	75851m	51.715	ug/l		
77) Bromobenzene	11.195	156	57616	49.647	ug/l		93
78) n-propylbenzene	11.299	91	307324	55.312	ug/l		98
79) 2-Chlorotoluene	11.360	91	186258	52.637	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	213188	53.605	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	24577	57.344	ug/l		90
82) 4-Chlorotoluene	11.451	91	213457	55.350	ug/l		98
83) tert-Butylbenzene	11.713	119	216792	53.053	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	220378	55.071	ug/l		98
85) sec-Butylbenzene	11.890	105	272850	55.742	ug/l		99
86) p-Isopropyltoluene	12.006	119	228640	57.799	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	110607	53.426	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	109112	52.095	ug/l		98
89) n-Butylbenzene	12.329	91	210489	61.782	ug/l		98
90) Hexachloroethane	12.536	117	39347	54.992	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	109233	52.598	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20341	57.847	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	65965	55.783	ug/l		99
94) Hexachlorobutadiene	13.725	225	27052	55.799	ug/l		97
95) Naphthalene	13.774	128	244271	53.764	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	66037	52.935	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

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

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

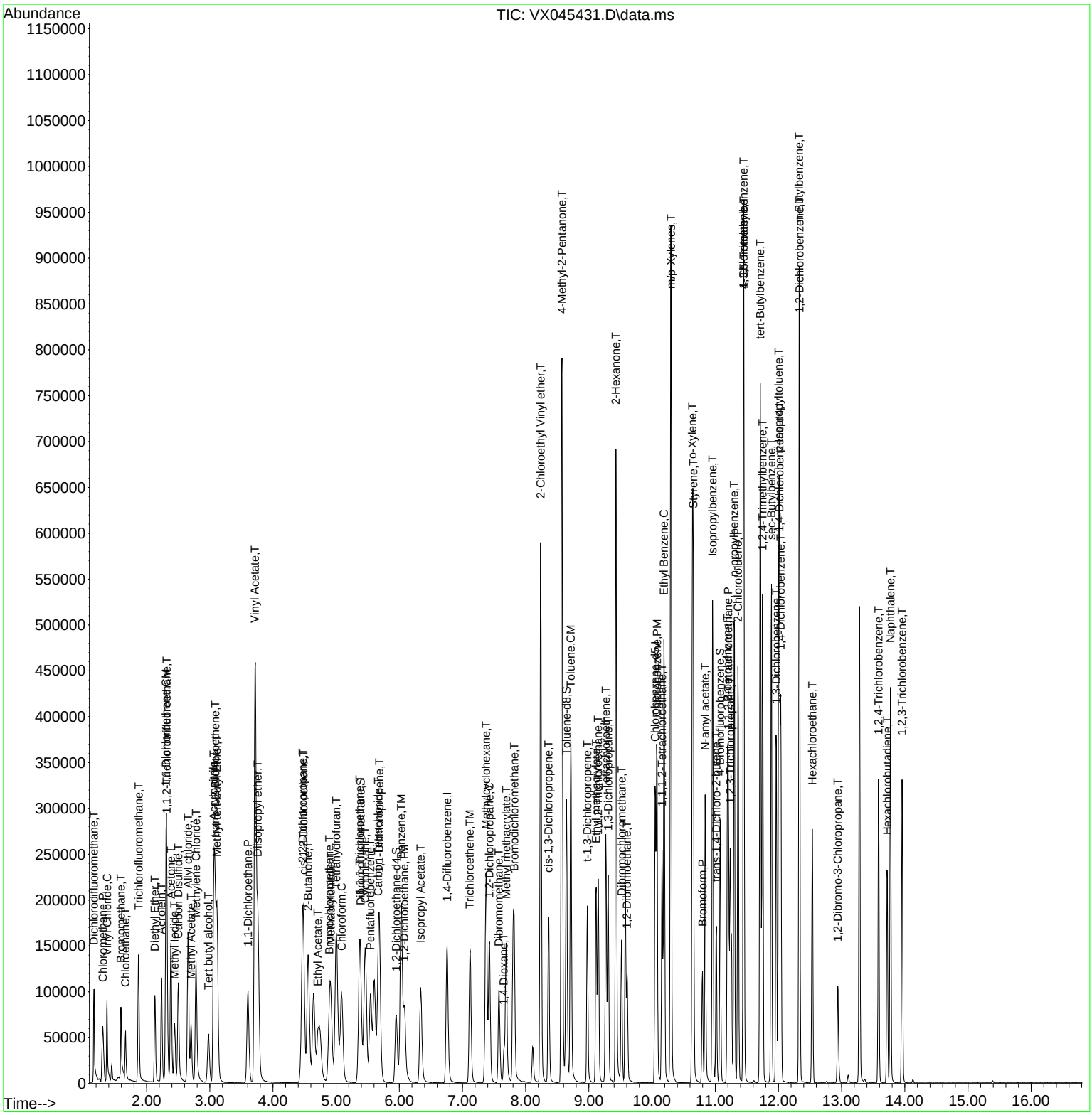
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

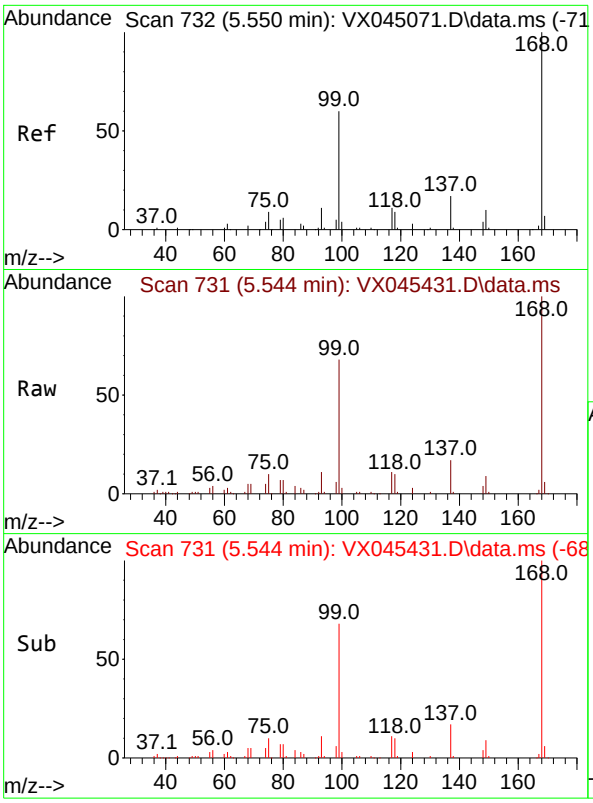
Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

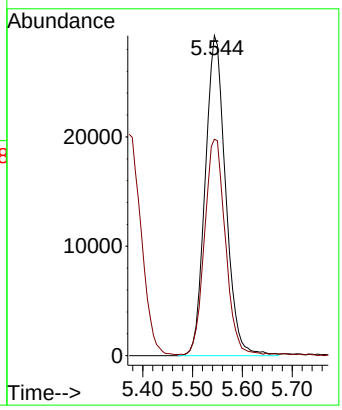




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:168 Resp: 8326

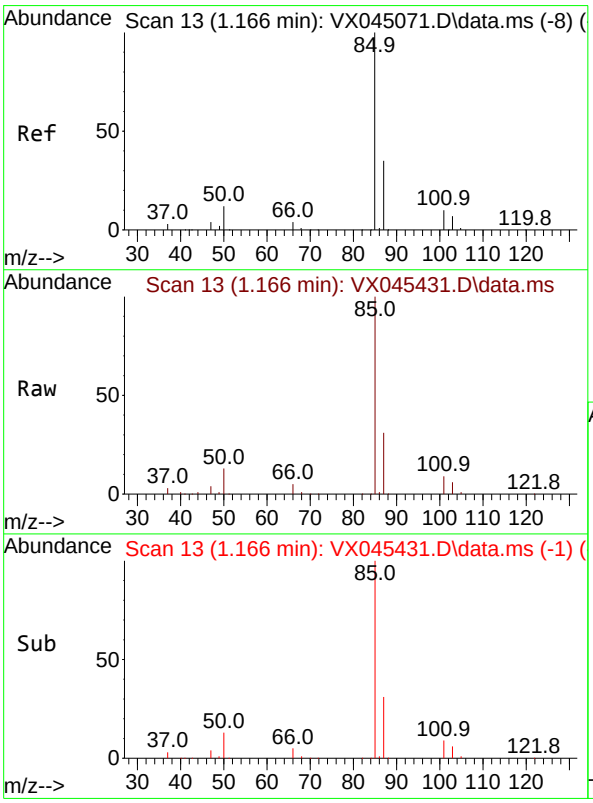
Ion	Ratio	Lower	Upper
168	100		
99	67.3	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

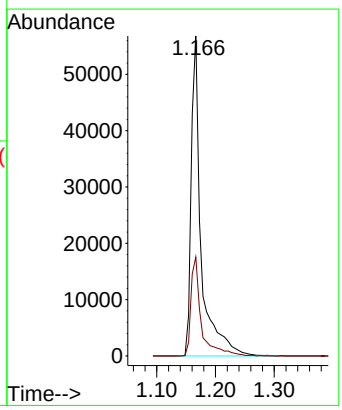
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

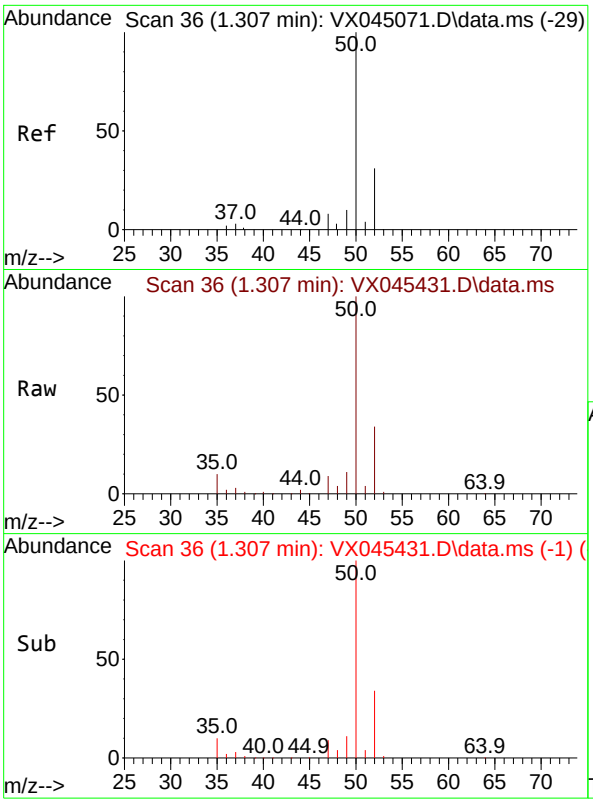


#2
Dichlorodifluoromethane
Concen: 63.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 85 Resp: 66436

Ion	Ratio	Lower	Upper
85	100		
87	30.9	17.4	52.3





#3
Chloromethane
Concen: 52.163 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

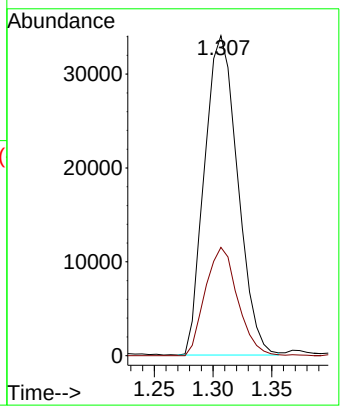
Tgt Ion: 50 Resp: 6690

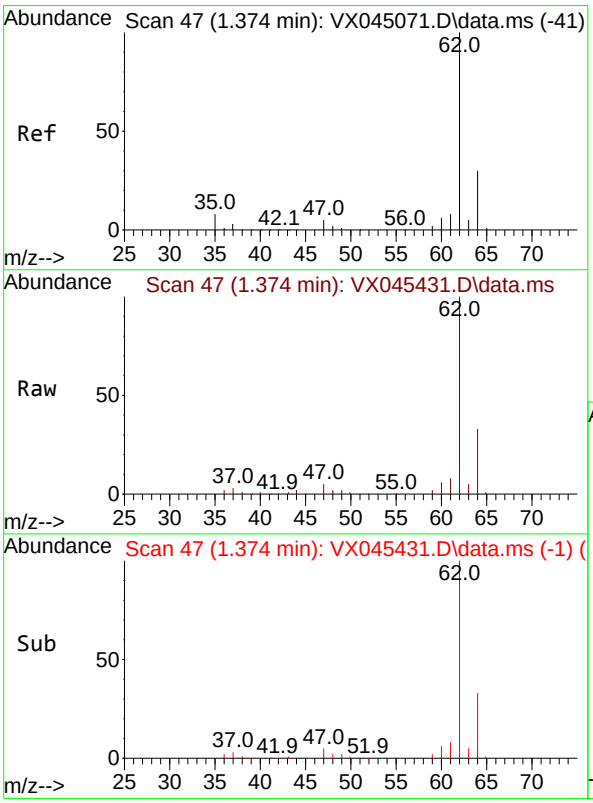
Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

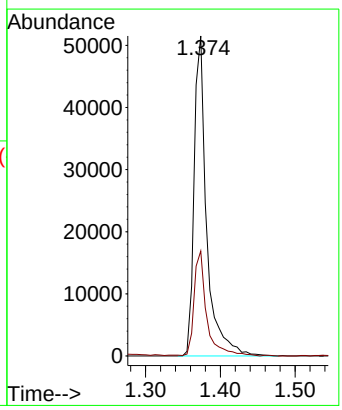


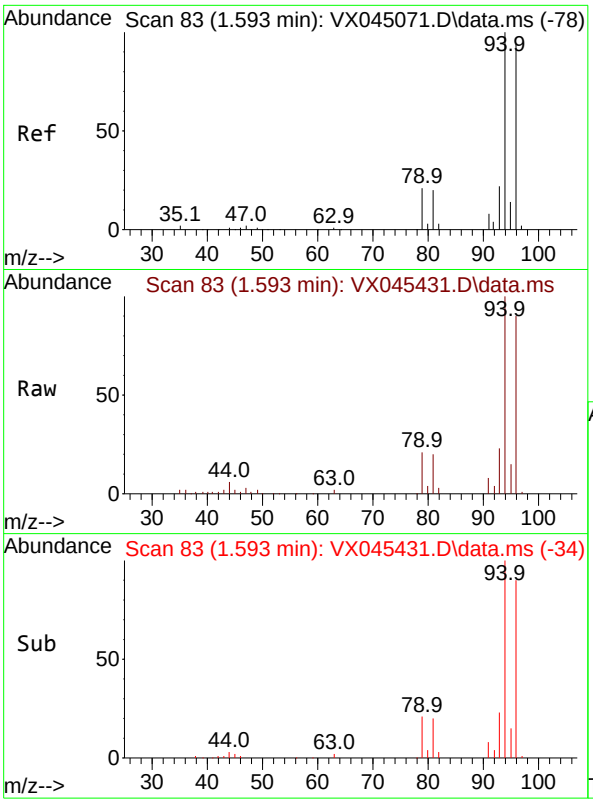


#4
Vinyl Chloride
Concen: 47.130 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 62 Resp: 59965

Ion	Ratio	Lower	Upper
62	100		
64	32.8	24.3	36.5

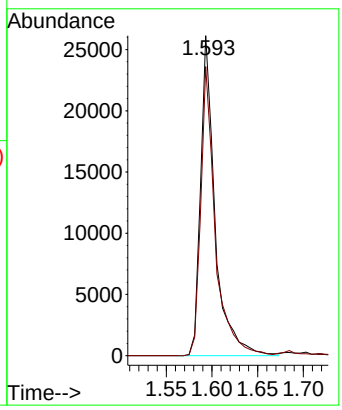




#5
Bromomethane
Concen: 57.542 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 94 Resp: 2878

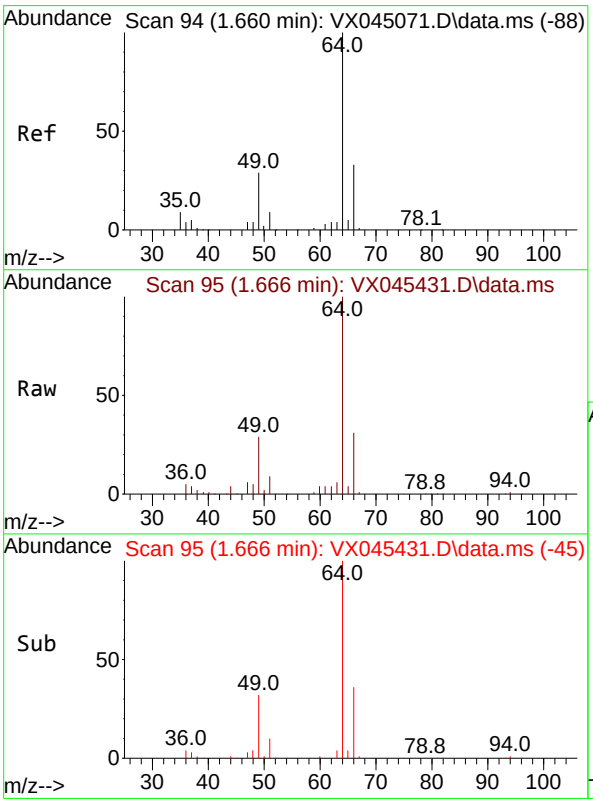
Ion	Ratio	Lower	Upper
94	100		
96	90.3	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

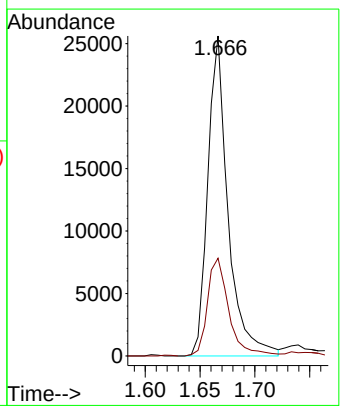
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

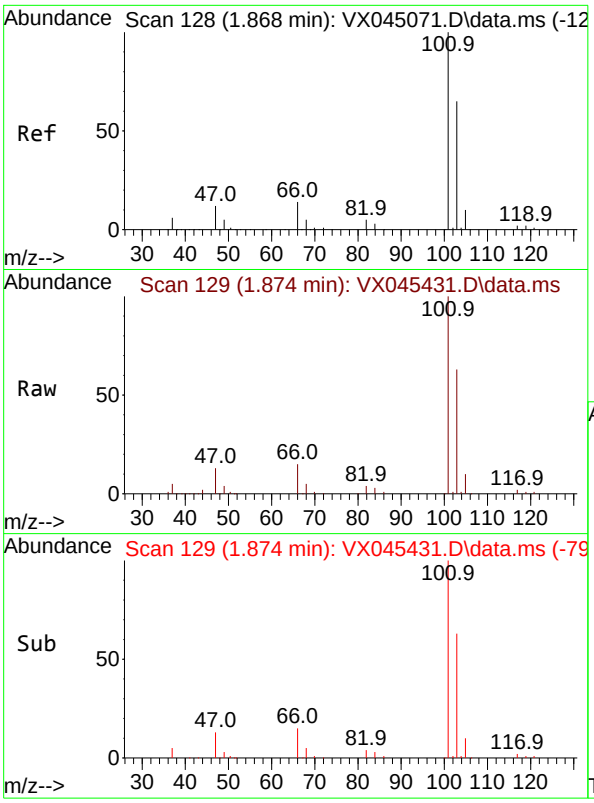


#6
Chloroethane
Concen: 55.901 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 64 Resp: 32807

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.7	40.1

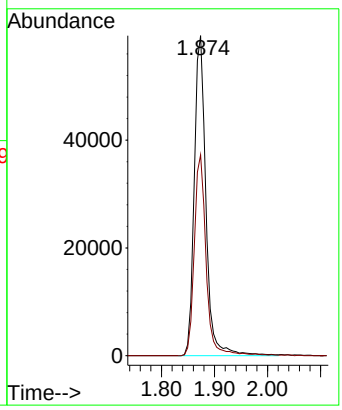




#7
Trichlorofluoromethane
Concen: 54.030 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:101 Resp: 9100

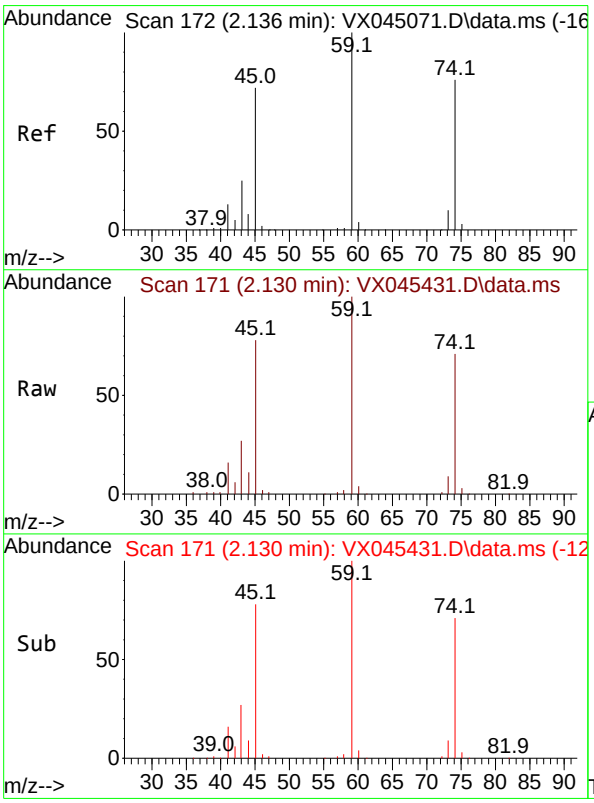
Ion	Ratio	Lower	Upper
101	100		
103	62.7	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

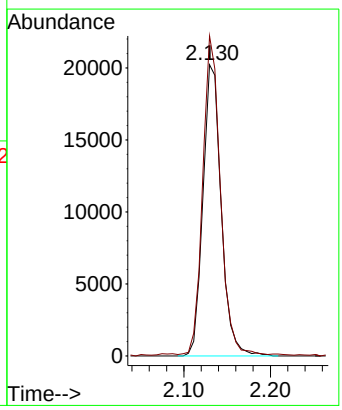
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

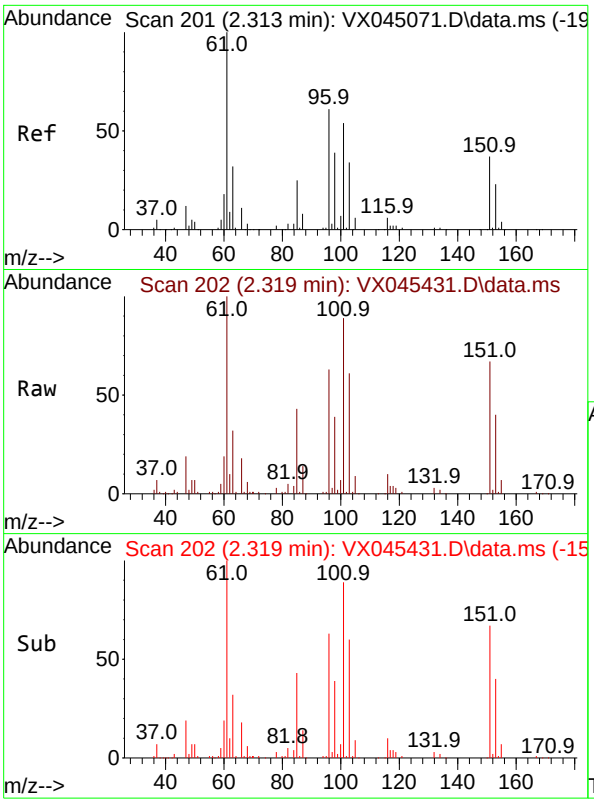


#8
Diethyl Ether
Concen: 44.955 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 74 Resp: 29617

Ion	Ratio	Lower	Upper
74	100		
45	105.3	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 60.165 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

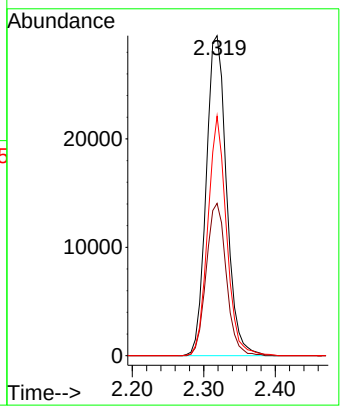
Tgt Ion:101 Resp: 5822

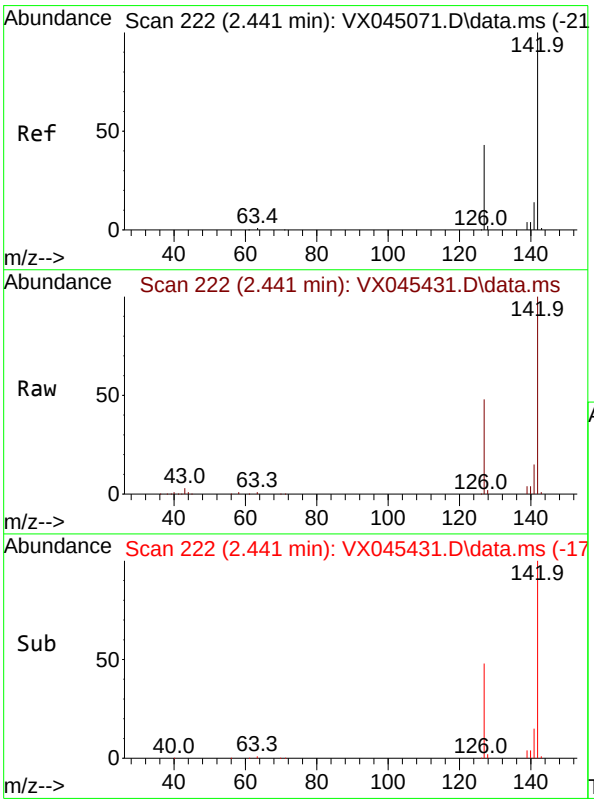
Ion	Ratio	Lower	Upper
101	100		
85	47.0	36.2	54.4
151	68.9	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

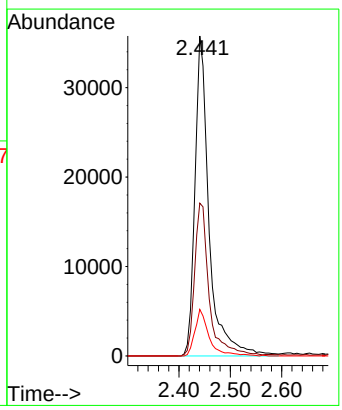


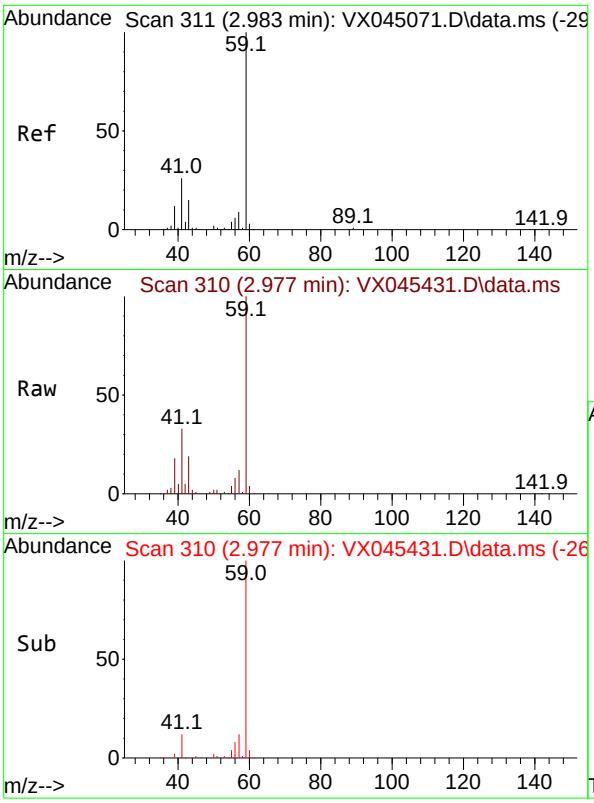


#10
Methyl Iodide
Concen: 56.637 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:142 Resp: 68492

Ion	Ratio	Lower	Upper
142	100		
127	49.3	35.4	53.2
141	14.6	11.6	17.4

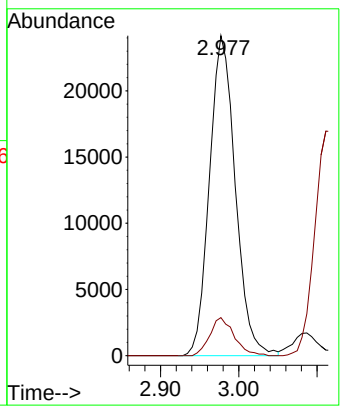




#11
Tert butyl alcohol
Concen: 221.277 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 59 Resp: 5550

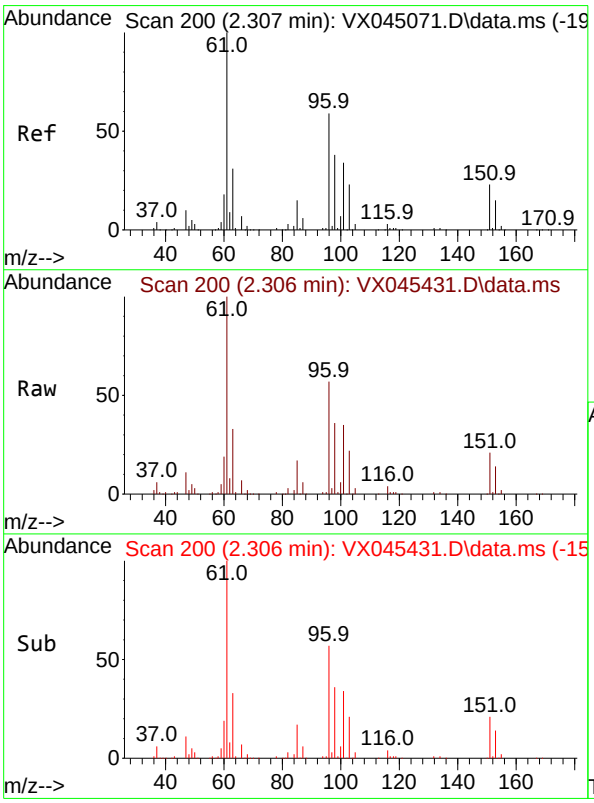
Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

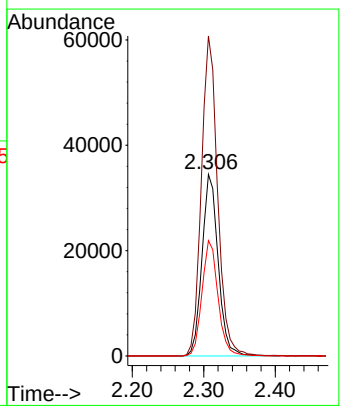
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

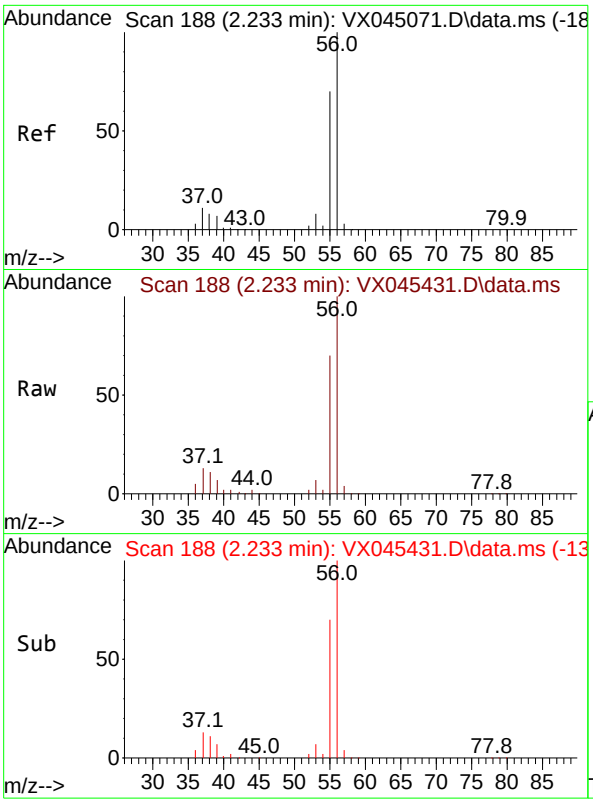


#12
1,1-Dichloroethene
Concen: 52.997 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 96 Resp: 54221

Ion	Ratio	Lower	Upper
96	100		
61	176.2	134.6	202.0
98	63.6	51.0	76.6

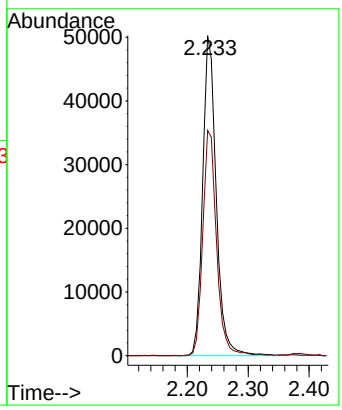




#13
Acrolein
Concen: 268.391 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 56 Resp: 7782

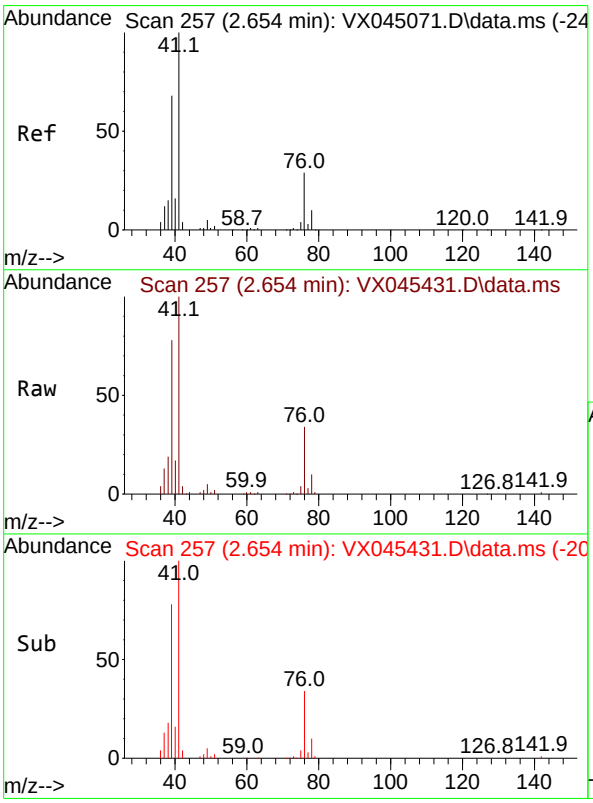
Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

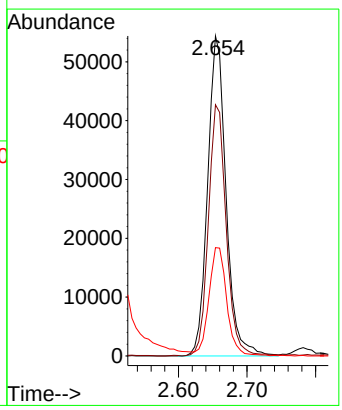
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

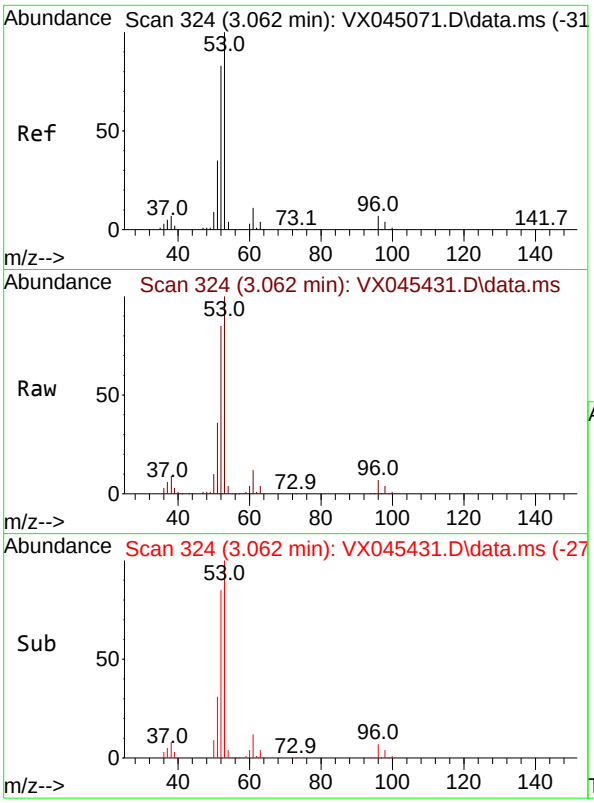


#14
Allyl chloride
Concen: 55.879 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 41 Resp: 101764

Ion	Ratio	Lower	Upper
41	100		
39	76.0	53.8	80.8
76	32.7	25.2	37.8





#15
Acrylonitrile
Concen: 250.432 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

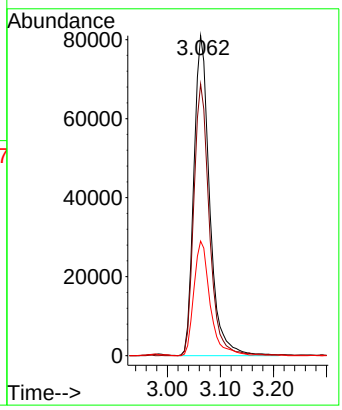
Tgt Ion: 53 Resp: 16837

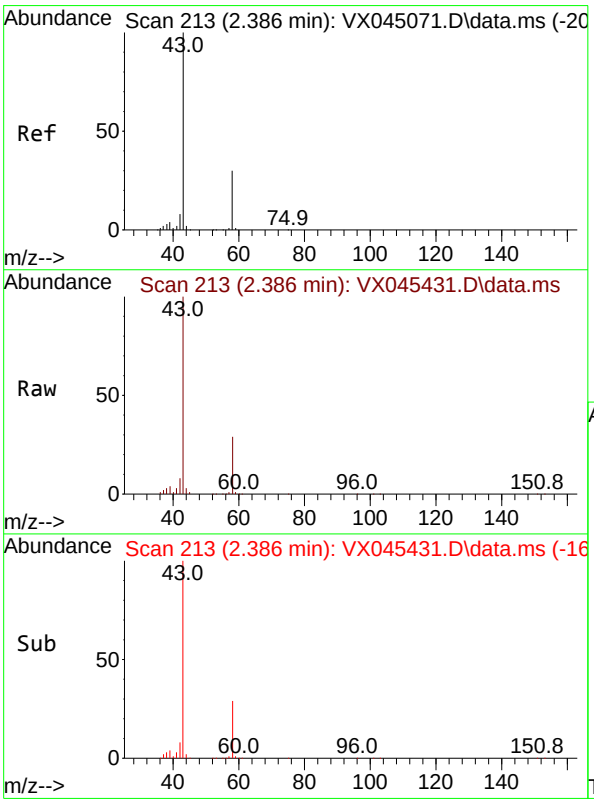
Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.2	99.2
51	36.6	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

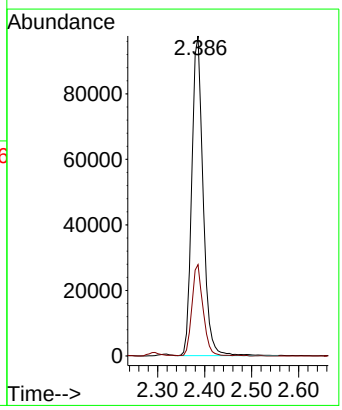


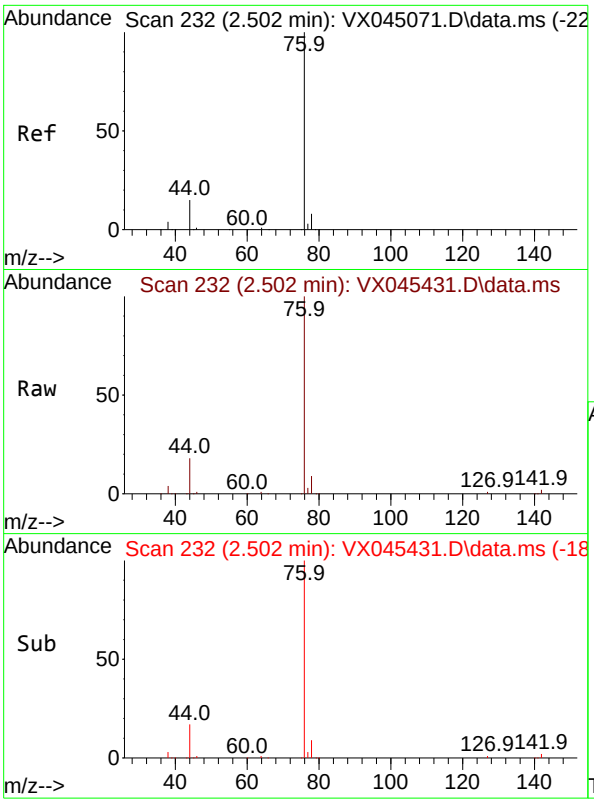


#16
Acetone
Concen: 267.080 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 164112

Ion	Ratio	Lower	Upper
43	100		
58	28.6	24.2	36.4

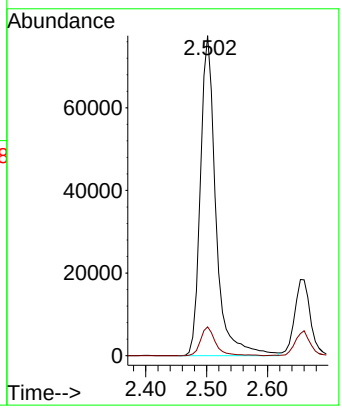




#17
Carbon Disulfide
Concen: 50.201 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 76 Resp: 13679

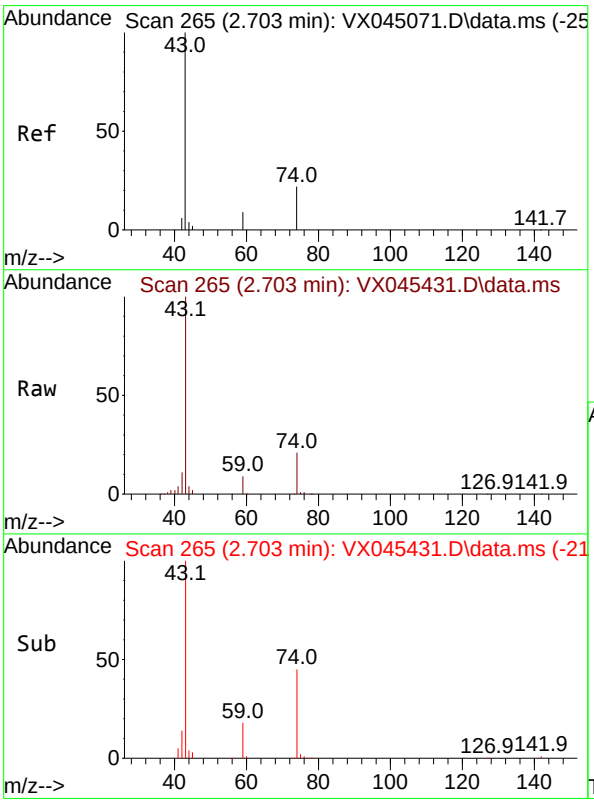
Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

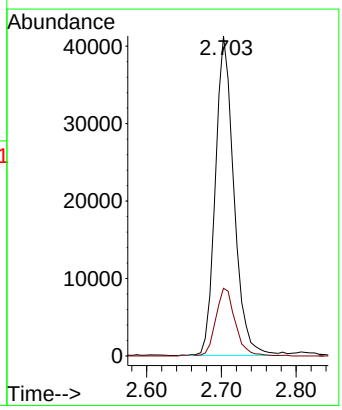
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

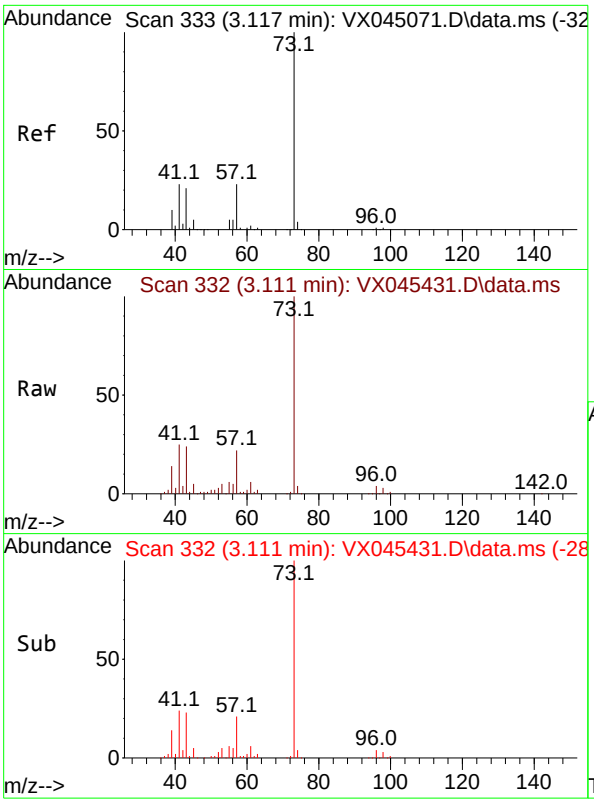


#18
Methyl Acetate
Concen: 48.227 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 71289

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.4	26.2

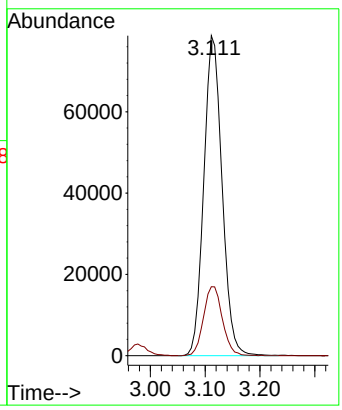




#19
Methyl tert-butyl Ether
Concen: 52.888 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 73 Resp: 18153

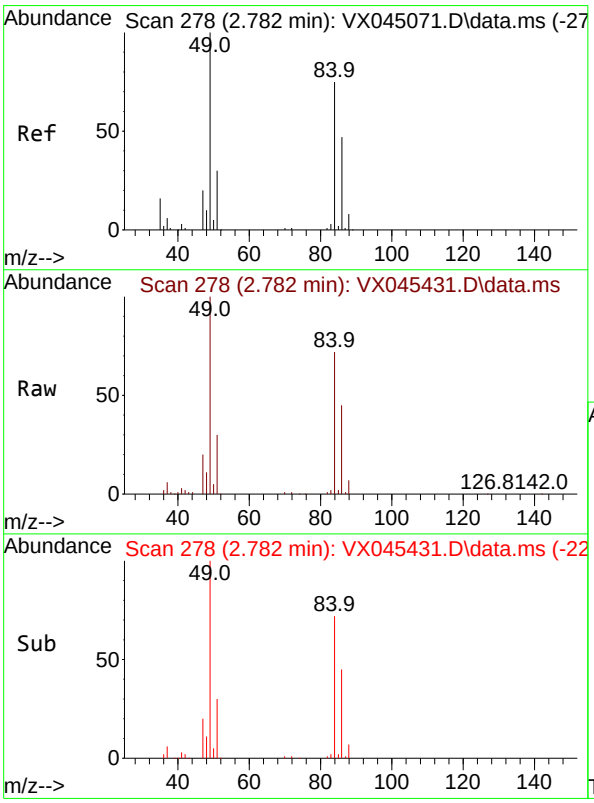
Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

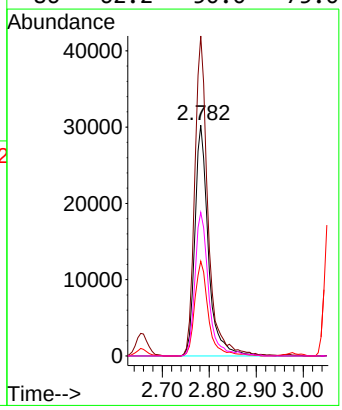
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

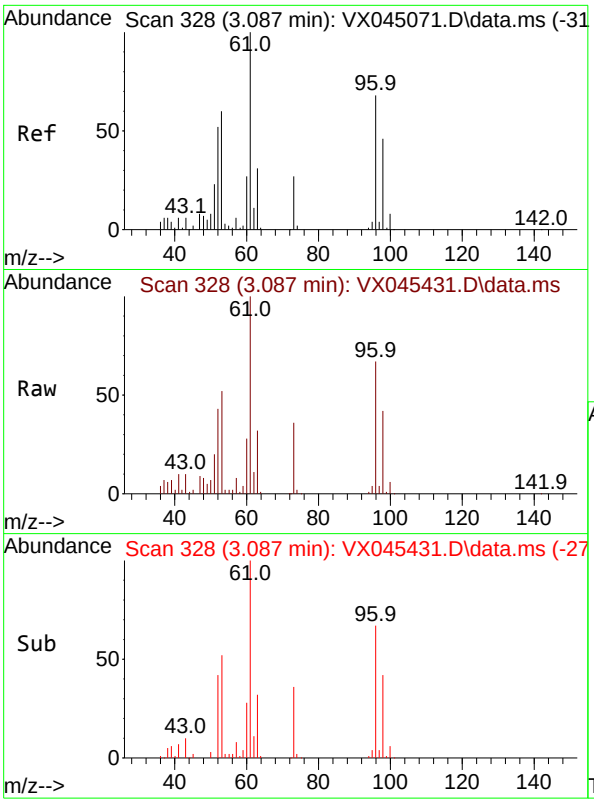


#20
Methylene Chloride
Concen: 49.864 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 84 Resp: 60694

Ion	Ratio	Lower	Upper
84	100		
49	138.7	106.5	159.7
51	41.1	32.1	48.1
86	62.2	50.0	75.0

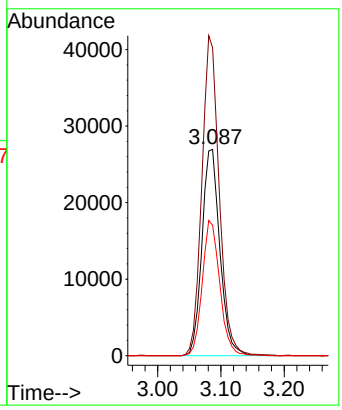




#21
trans-1,2-Dichloroethene
Concen: 52.781 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 96 Resp: 5334

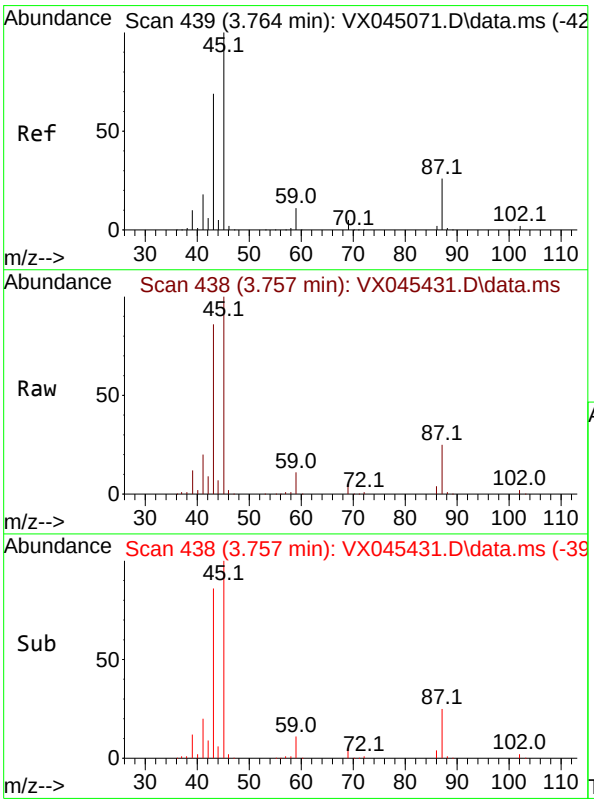
Ion	Ratio	Lower	Upper
96	100		
61	149.3	117.0	175.4
98	63.3	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

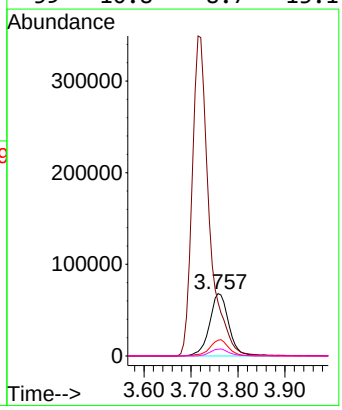
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

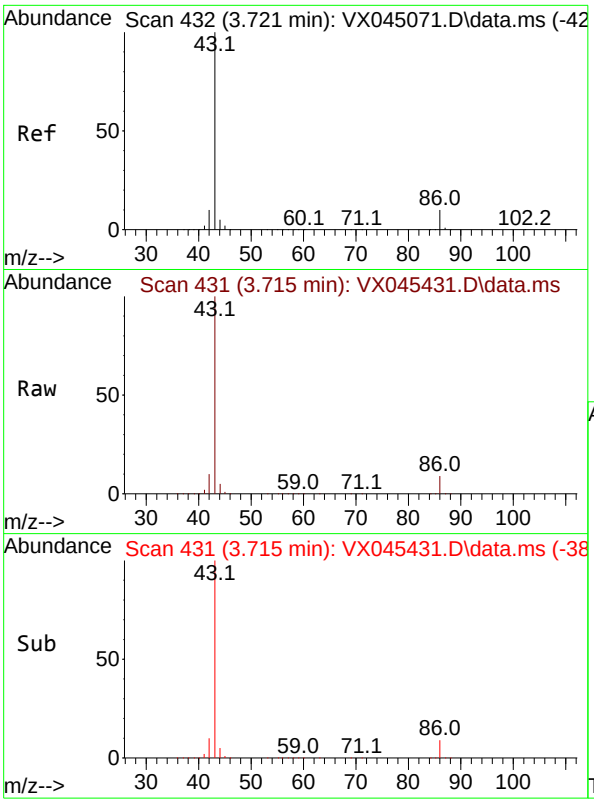


#22
Diisopropyl ether
Concen: 52.066 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 45 Resp: 192840

Ion	Ratio	Lower	Upper
45	100		
43	85.5	54.9	82.3#
87	25.3	21.0	31.4
59	10.8	8.7	13.1

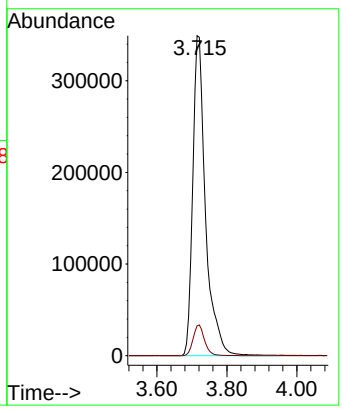




#23
Vinyl Acetate
Concen: 286.525 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 88559

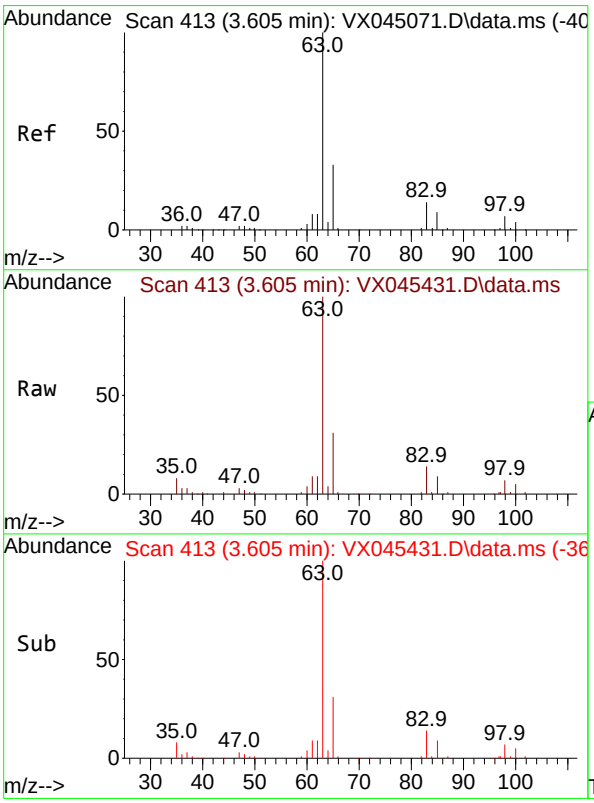
Ion	Ratio	Lower	Upper
43	100		
86	9.4	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

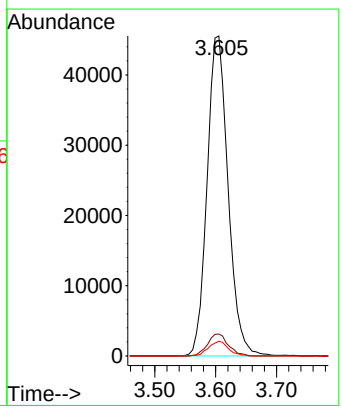
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

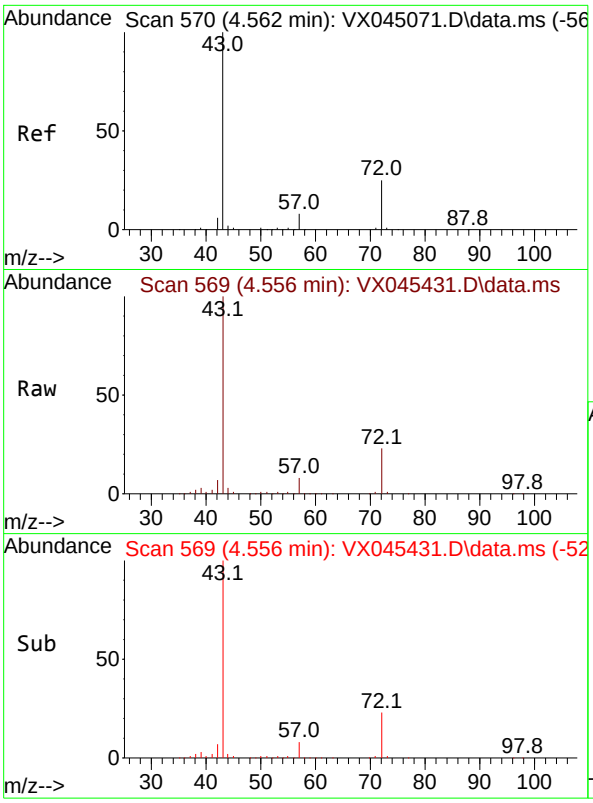


#24
1,1-Dichloroethane
Concen: 52.589 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 63 Resp: 109159

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.6	2.1	6.5





#25
2-Butanone
Concen: 268.225 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

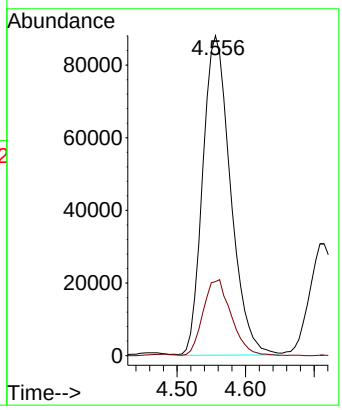
Tgt Ion: 43 Resp: 24808

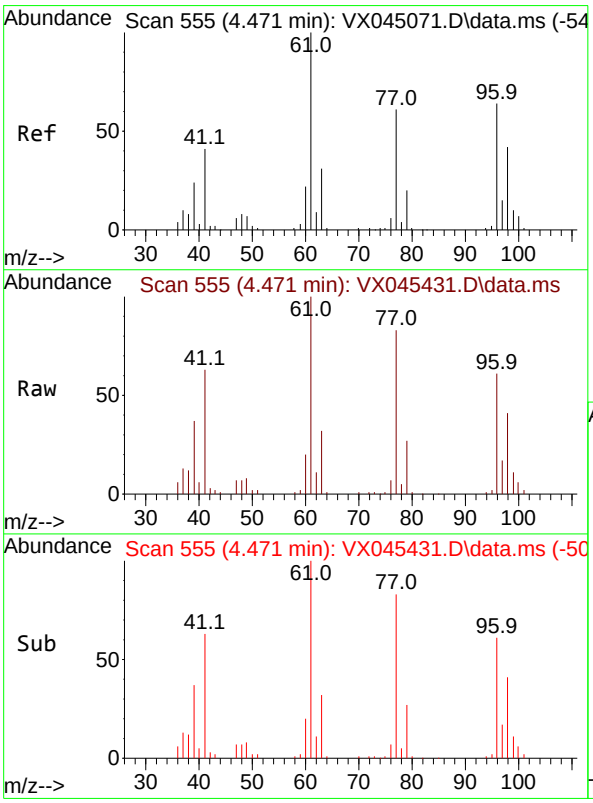
Ion	Ratio	Lower	Upper
43	100		
72	23.1	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

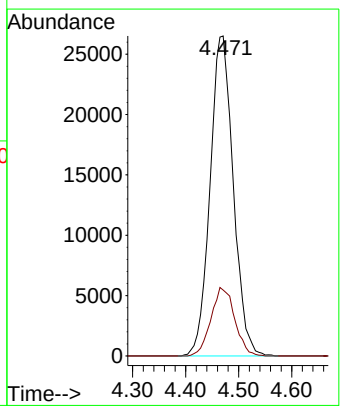


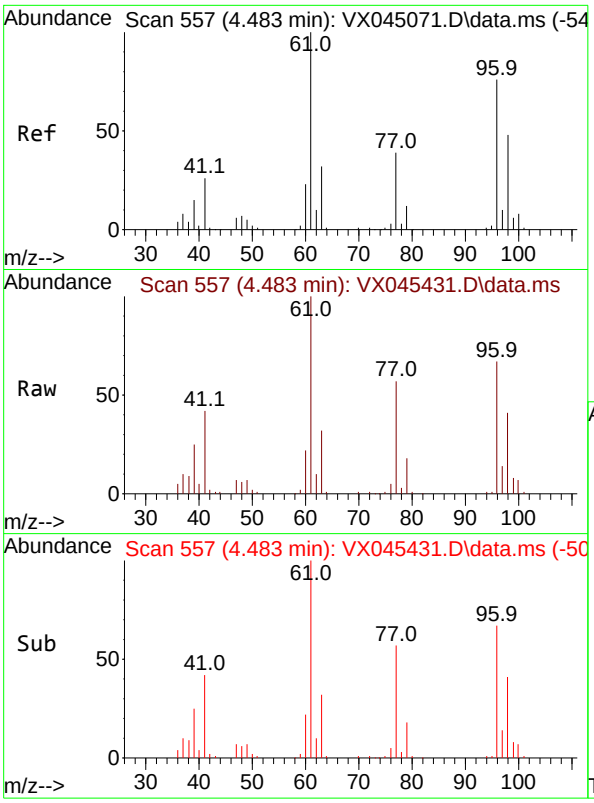


#26
2,2-Dichloropropane
Concen: 82.834 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 77 Resp: 80649

Ion	Ratio	Lower	Upper
77	100		
97	21.8	12.4	37.0

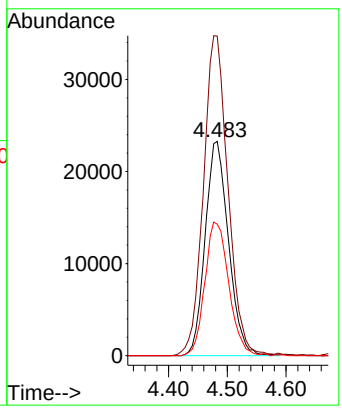




#27
cis-1,2-Dichloroethene
Concen: 51.554 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 96 Resp: 6432

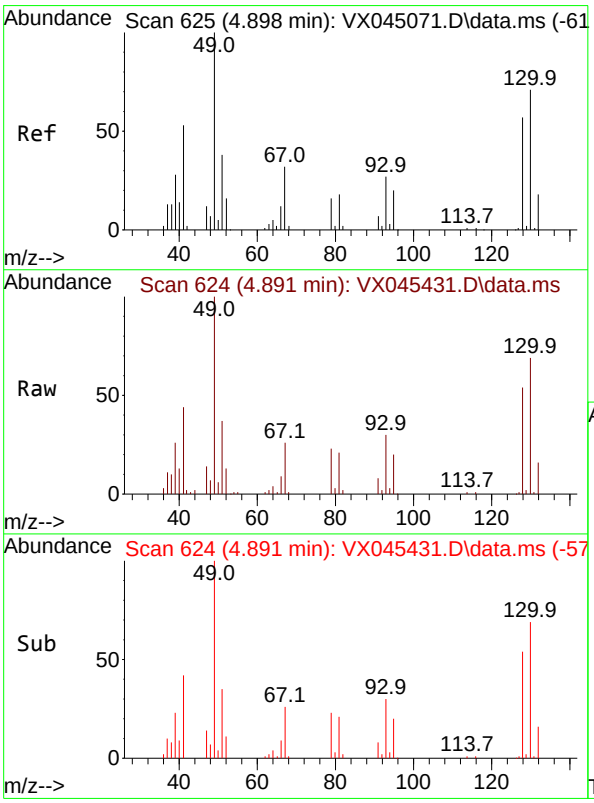
Ion	Ratio	Lower	Upper
96	100		
61	156.5	0.0	283.2
98	64.0	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

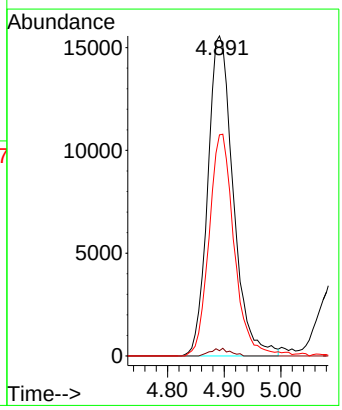
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

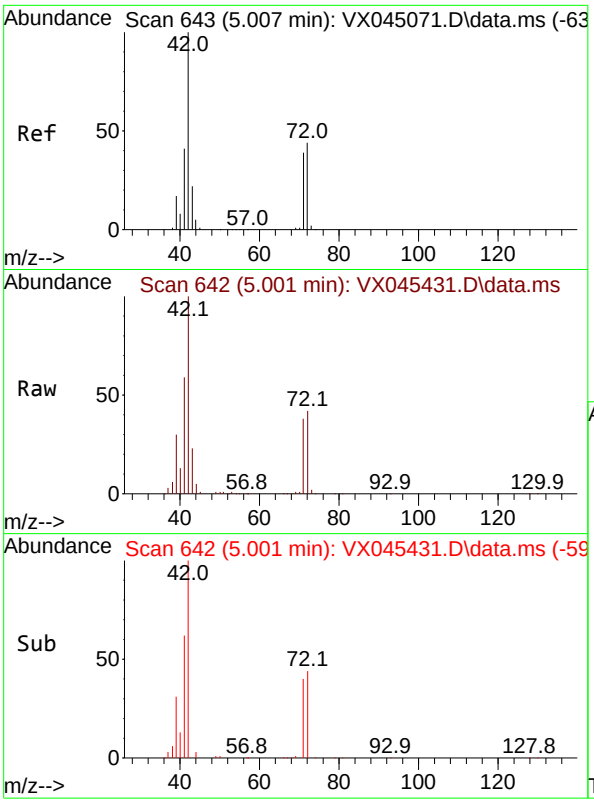


#28
Bromochloromethane
Concen: 49.141 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 49 Resp: 48619

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	68.3	56.1	84.1

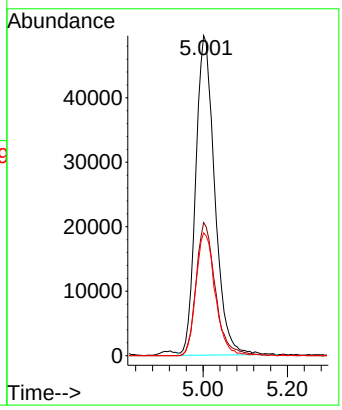




#29
Tetrahydrofuran
Concen: 250.594 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 42 Resp: 15565

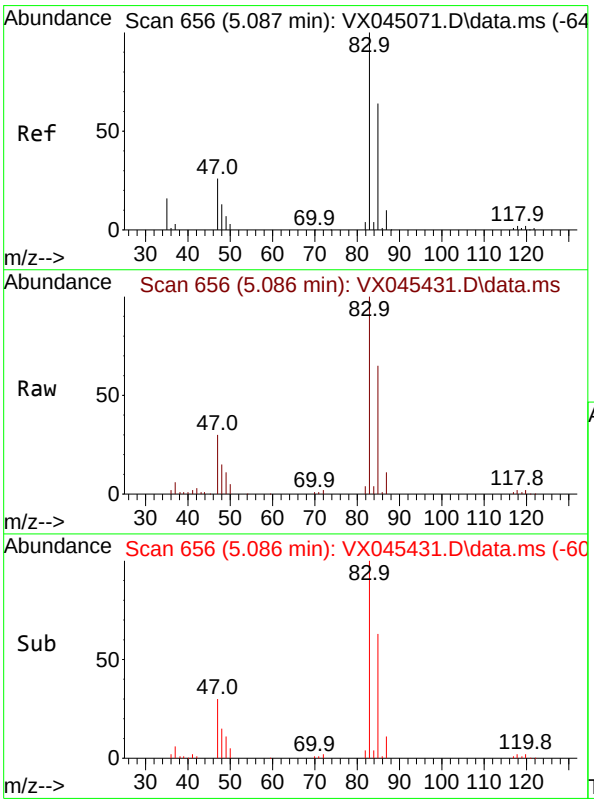
Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.1	51.1
71	38.9	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

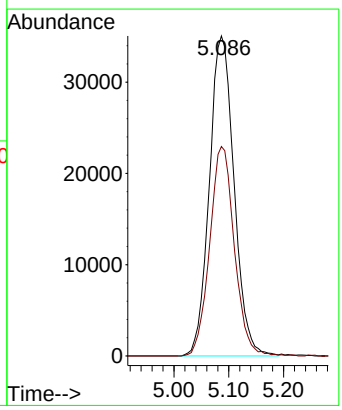
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

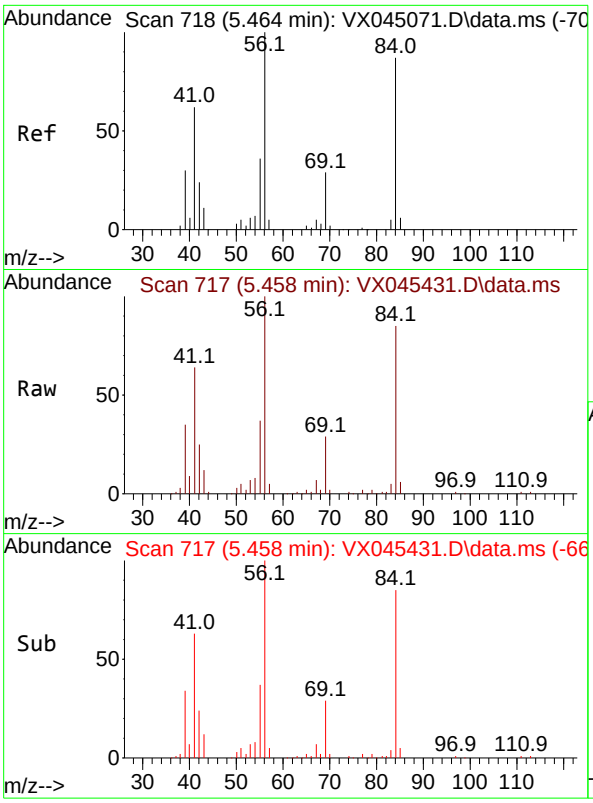


#30
Chloroform
Concen: 53.166 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 83 Resp: 109652

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.4	77.2

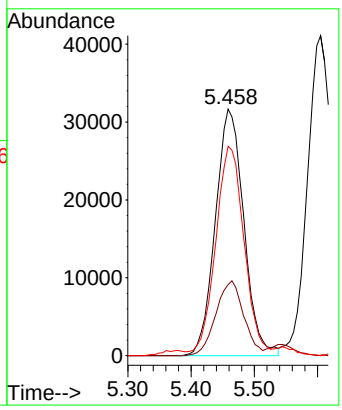




#31
Cyclohexane
Concen: 54.912 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 56 Resp: 9894

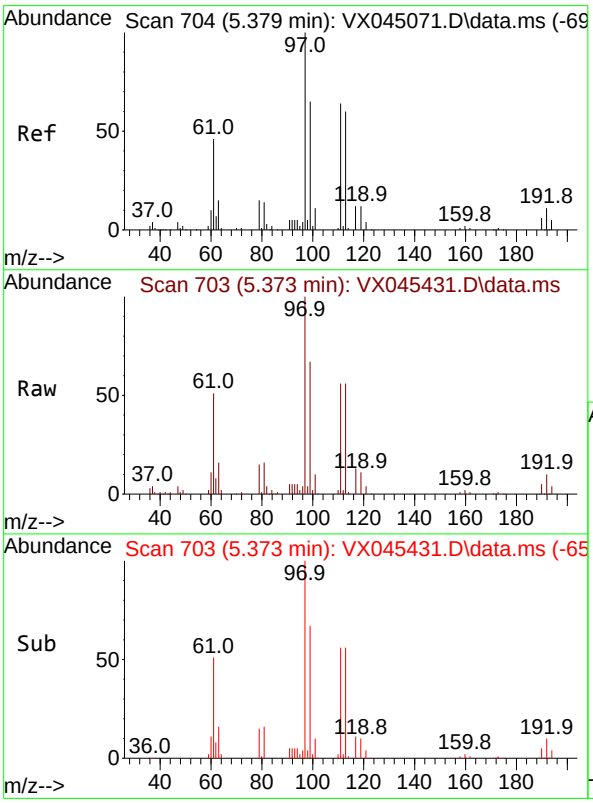
Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	82.8	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

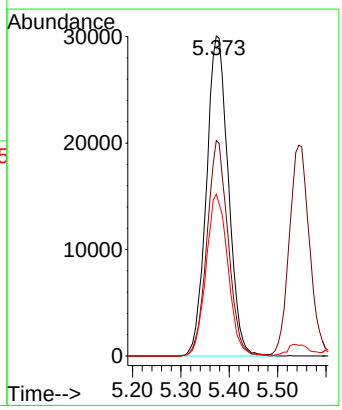
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

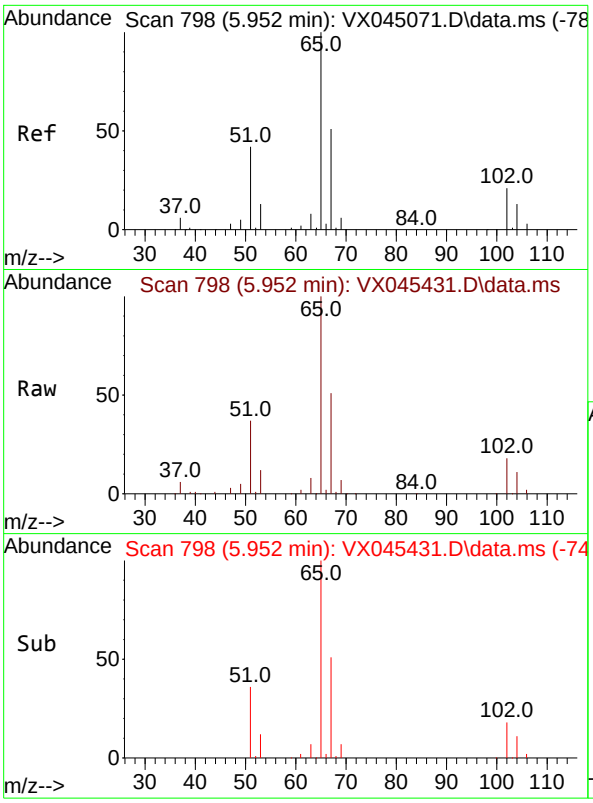


#32
1,1,1-Trichloroethane
Concen: 56.559 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 97 Resp: 94214

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.6	77.4
61	50.8	38.4	57.6

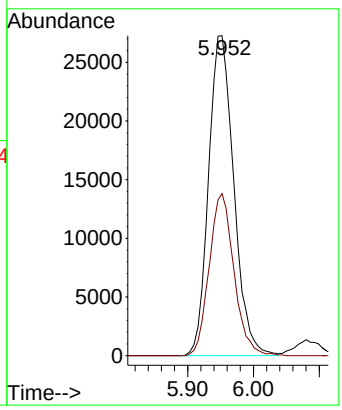




#33
1,2-Dichloroethane-d4
Concen: 55.062 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 65 Resp: 7292

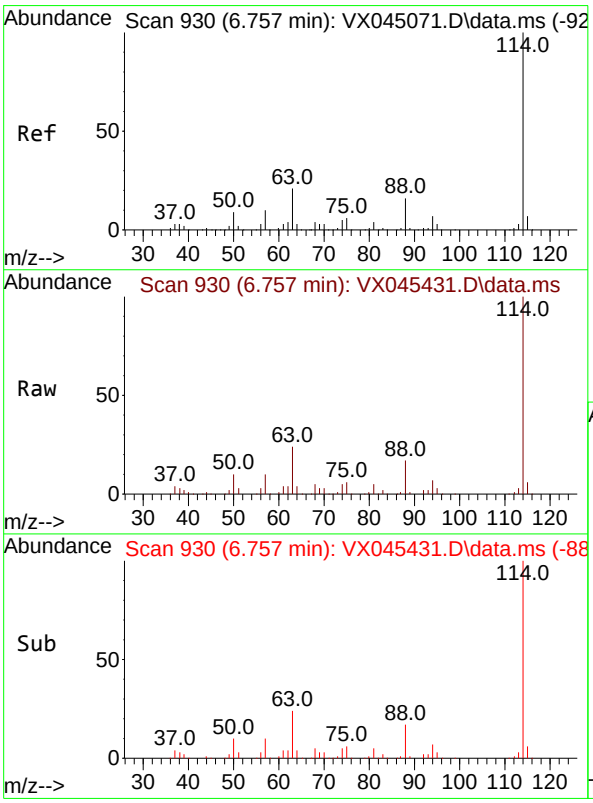
Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

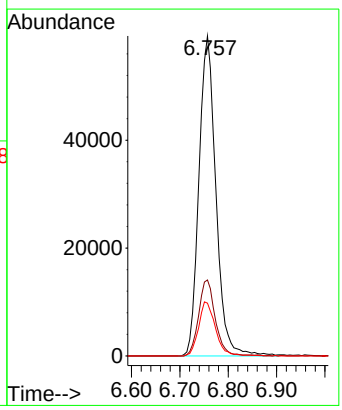
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

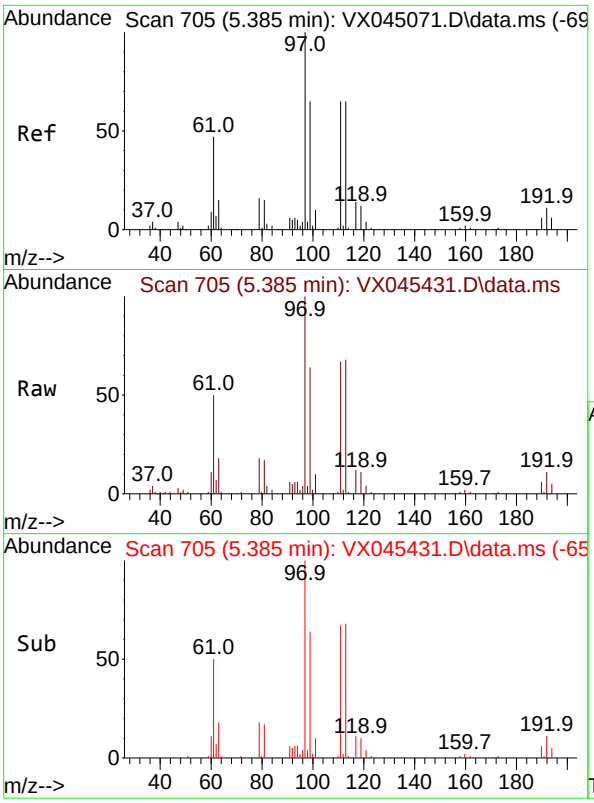


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:114 Resp: 144945

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	41.8
88	16.5	0.0	32.8

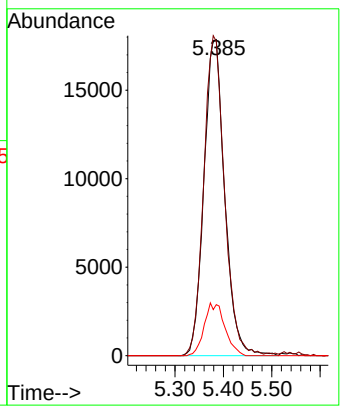




#35
Dibromofluoromethane
Concen: 54.975 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:113 Resp: 5328

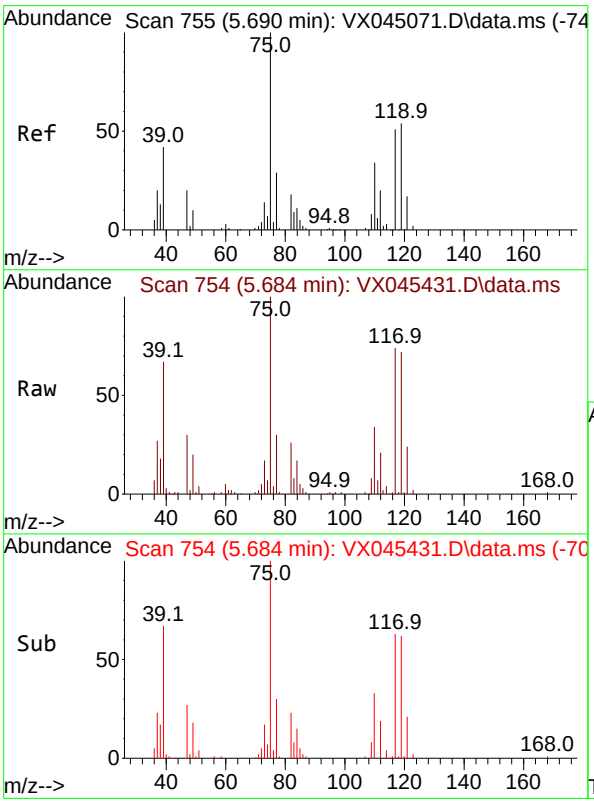
Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.8	122.6
192	16.6	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

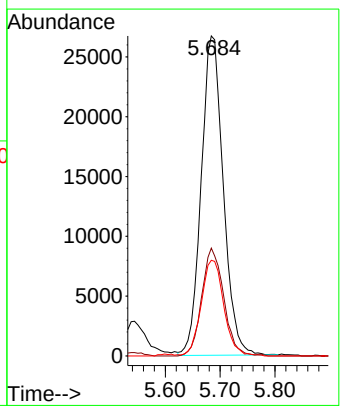
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

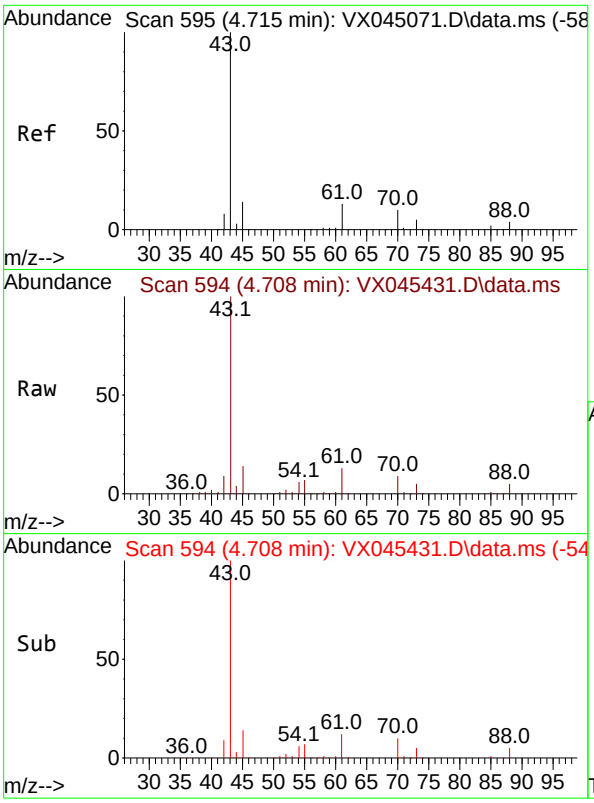


#36
1,1-Dichloropropene
Concen: 56.139 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 74619

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.9	50.6
77	30.7	24.5	36.7

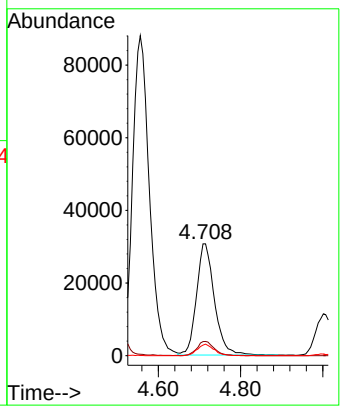




#37
Ethyl Acetate
Concen: 54.162 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 9276

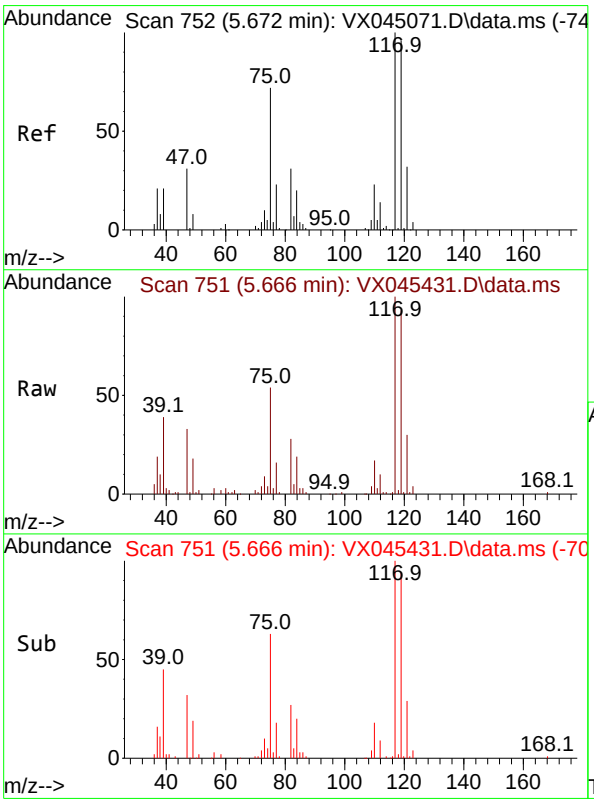
Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.8	16.2
70	9.6	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

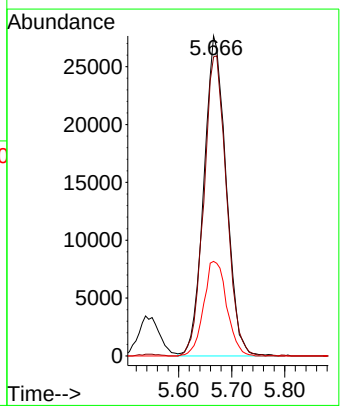
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

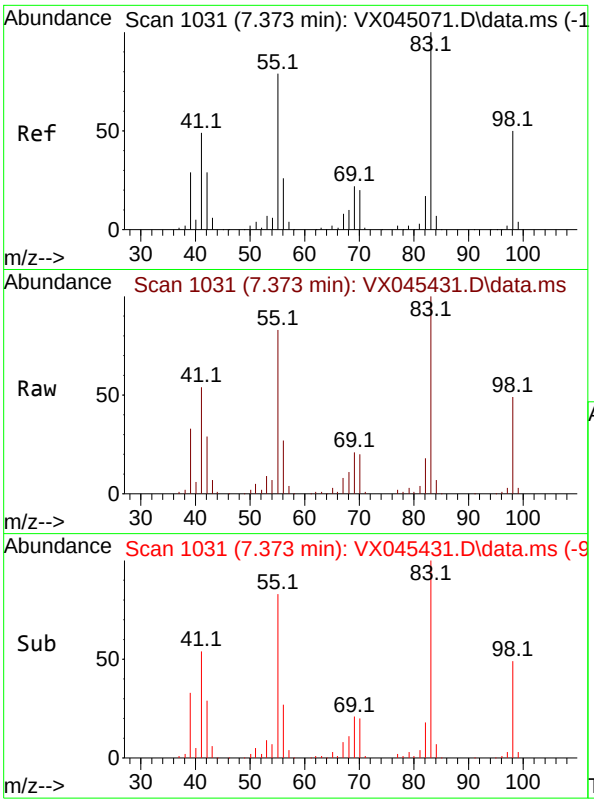


#38
Carbon Tetrachloride
Concen: 59.885 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:117 Resp: 80811

Ion	Ratio	Lower	Upper
117	100		
119	93.4	76.7	115.1
121	29.6	25.5	38.3

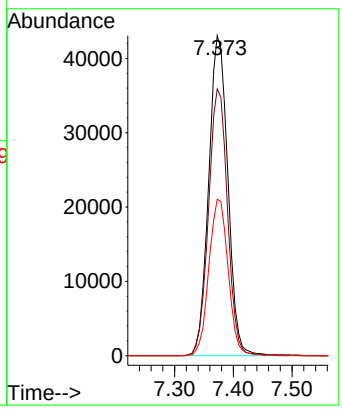




#39
Methylcyclohexane
Concen: 61.319 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 83 Resp: 9766

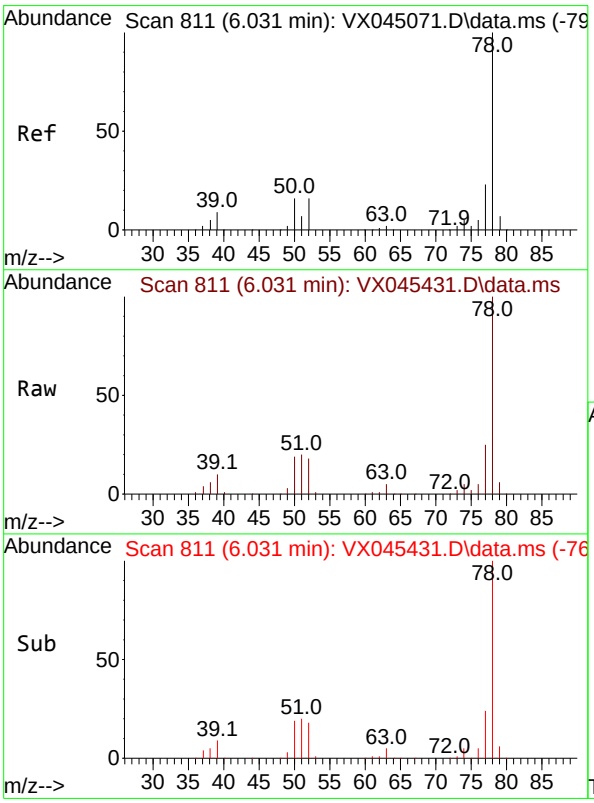
Ion	Ratio	Lower	Upper
83	100		
55	83.3	63.0	94.4
98	48.9	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

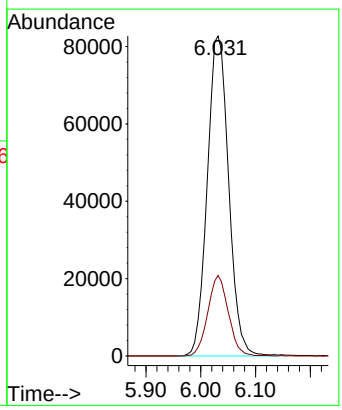
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

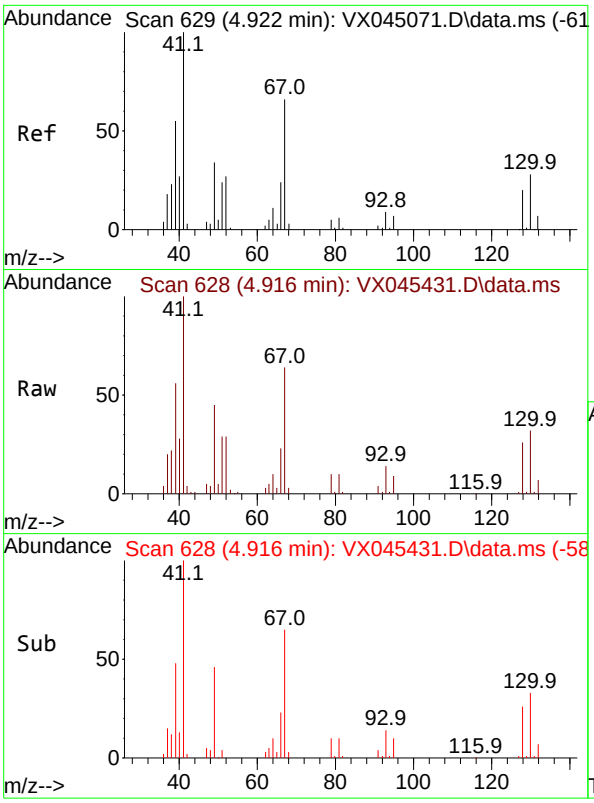


#40
Benzene
Concen: 53.428 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 78 Resp: 224248

Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.8	28.2

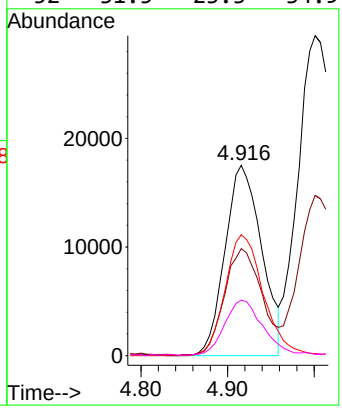




#41
Methacrylonitrile
Concen: 55.689 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 41 Resp: 5157

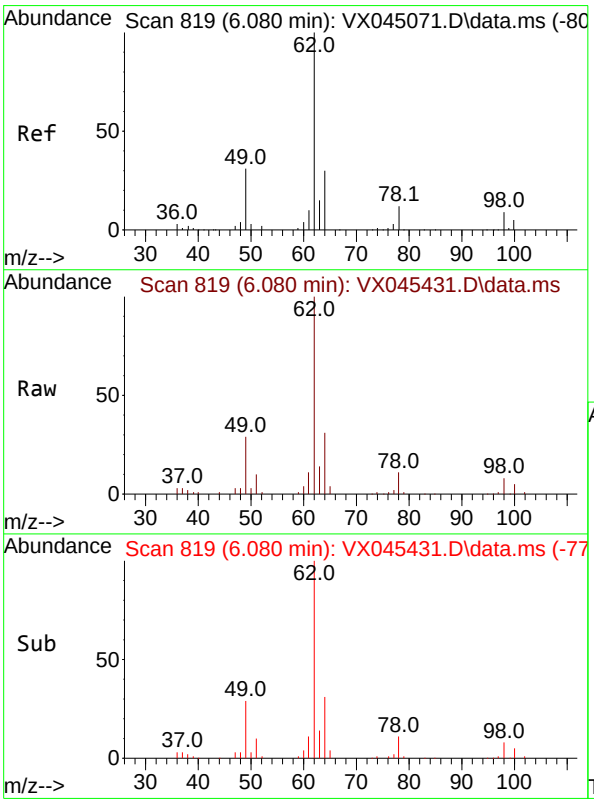
Ion	Ratio	Lower	Upper
41	100		
39	57.7	44.6	67.0
67	66.2	53.9	80.9
52	31.5	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

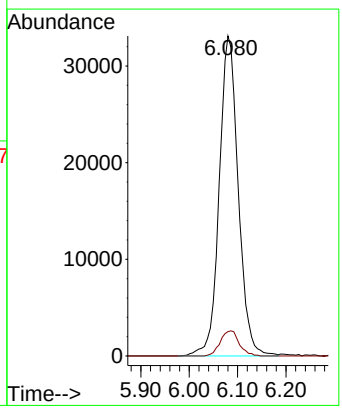
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

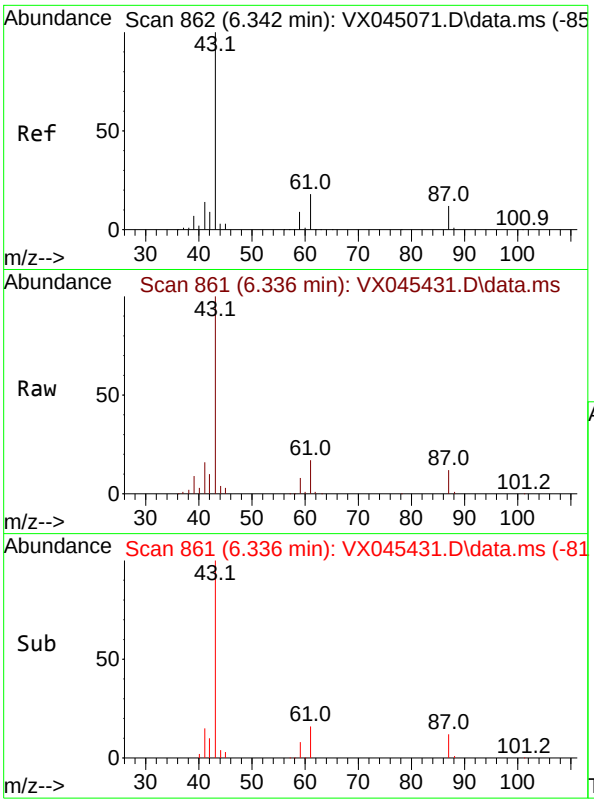


#42
1,2-Dichloroethane
Concen: 59.882 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 62 Resp: 90507

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2

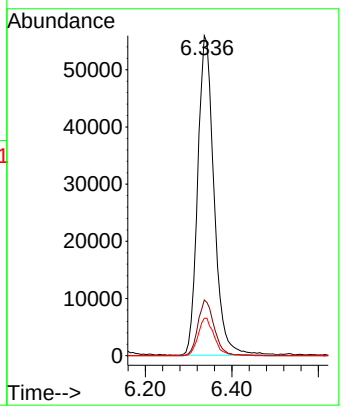




#43
Isopropyl Acetate
Concen: 57.673 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 14606

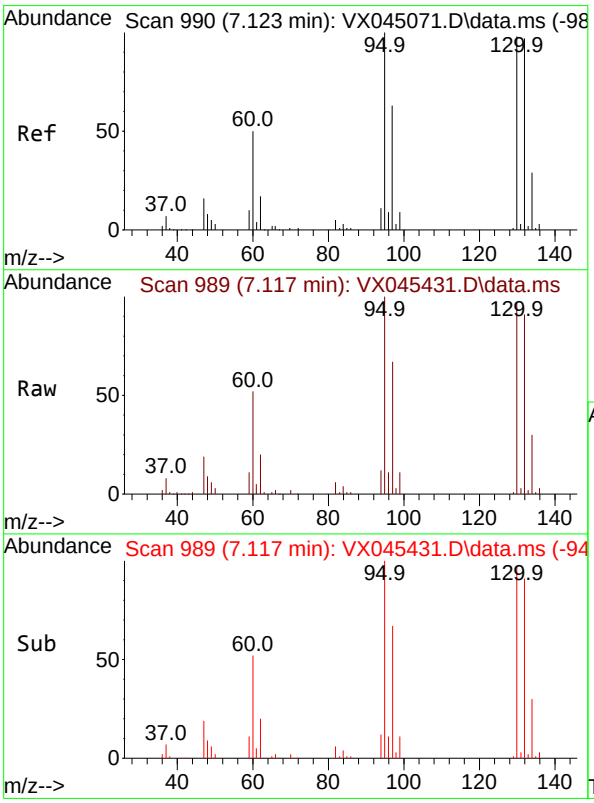
Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.9	22.3
87	11.6	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

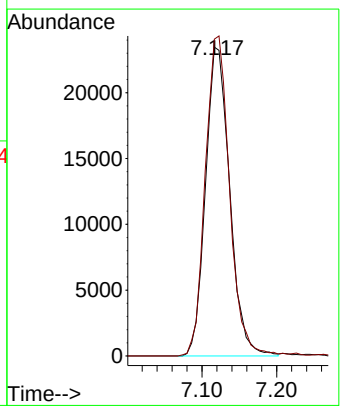
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

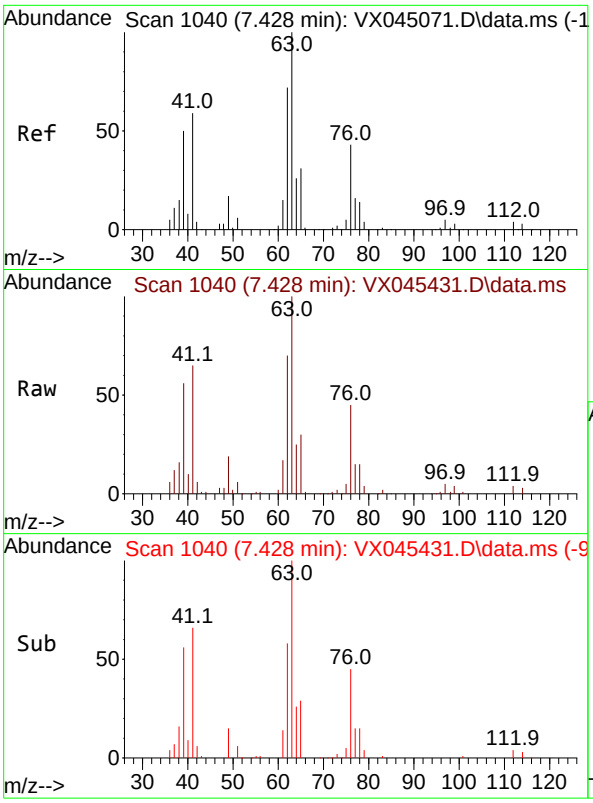


#44
Trichloroethene
Concen: 53.617 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:130 Resp: 52842

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	205.0

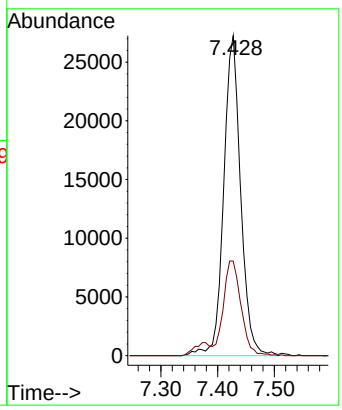




#45
1,2-Dichloropropane
Concen: 52.440 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 63 Resp: 5659

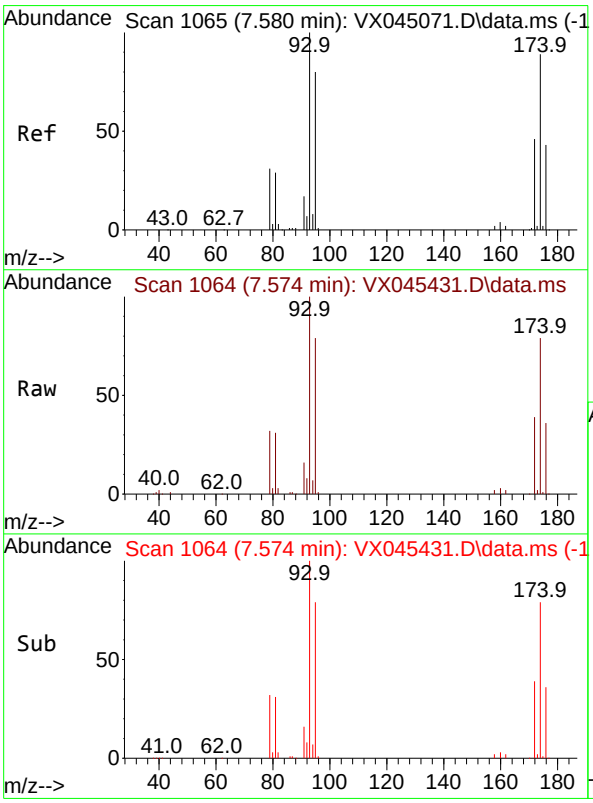
Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

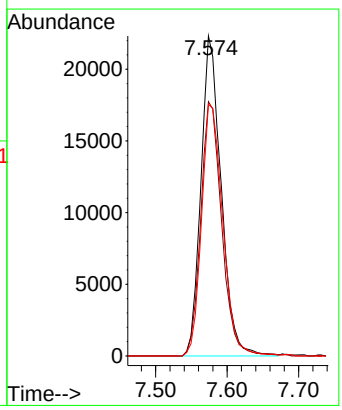
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

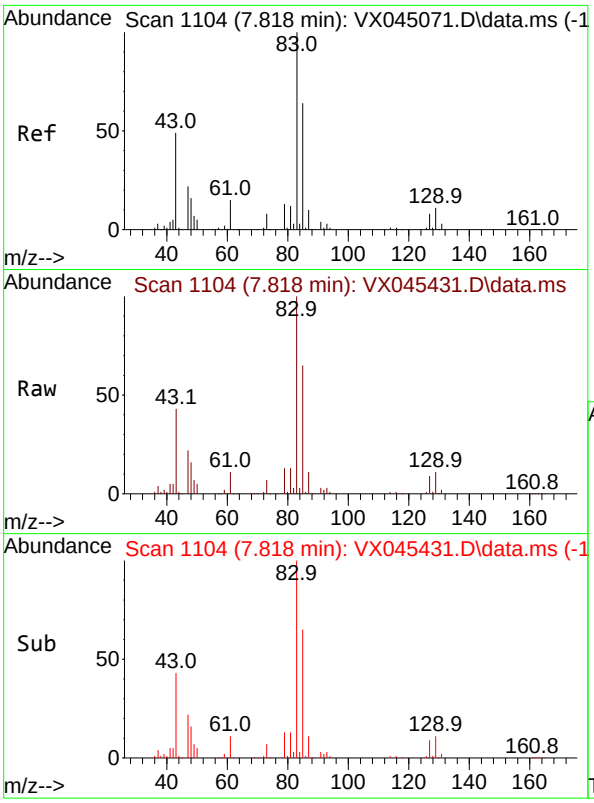


#46
Dibromomethane
Concen: 57.458 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 93 Resp: 43826

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.8	98.8
174	82.8	72.2	108.2

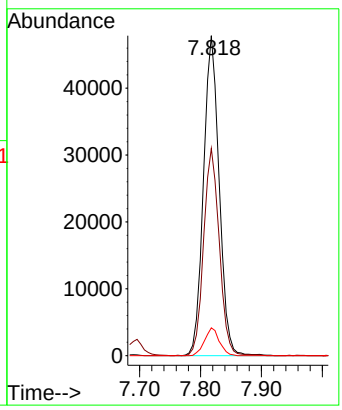




#47
Bromodichloromethane
Concen: 57.282 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 83 Resp: 8570

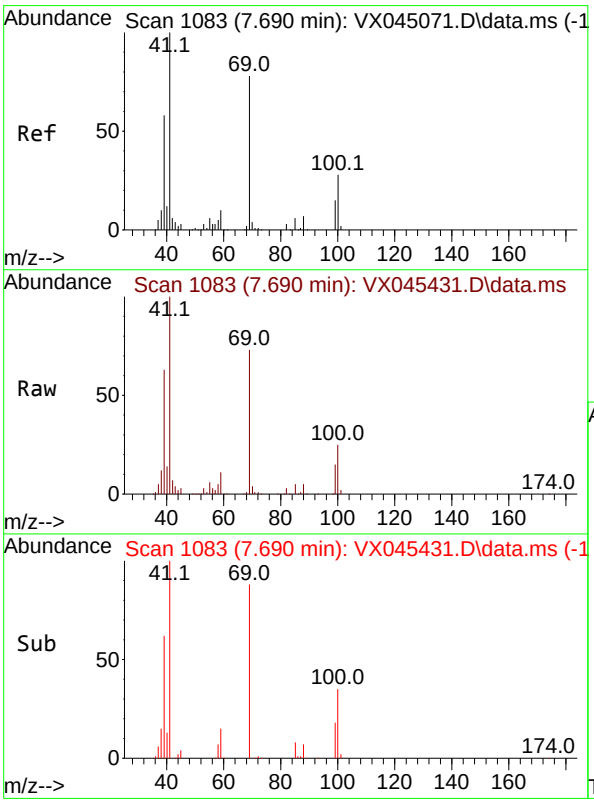
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.1	76.7
127	8.7	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

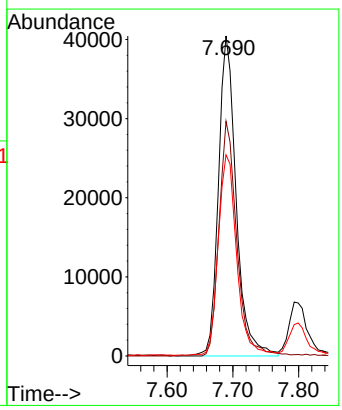
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

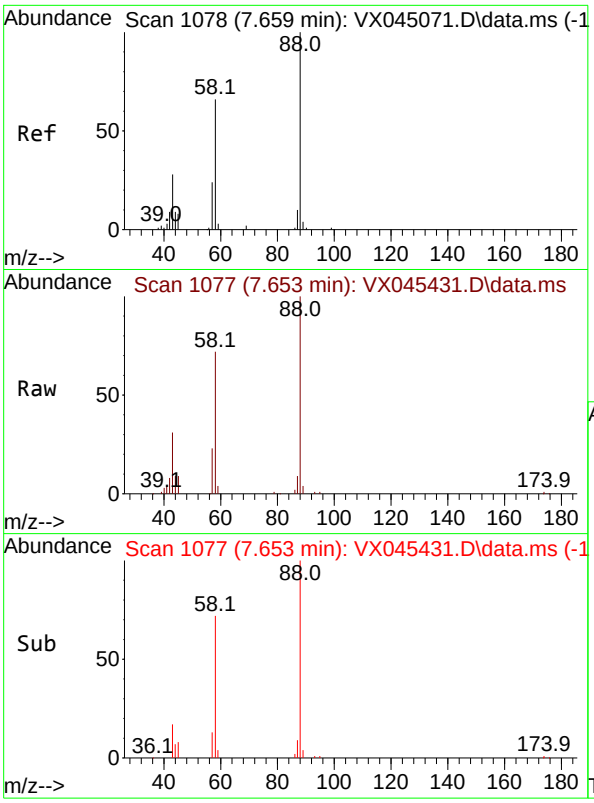


#48
Methyl methacrylate
Concen: 59.672 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 41 Resp: 75819

Ion	Ratio	Lower	Upper
41	100		
69	73.6	63.0	94.6
39	65.3	47.5	71.3

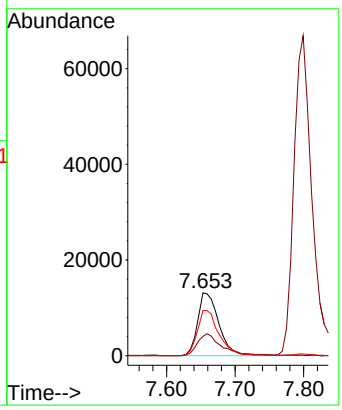




#49
1,4-Dioxane
Concen: 1056.380 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 88 Resp: 2831

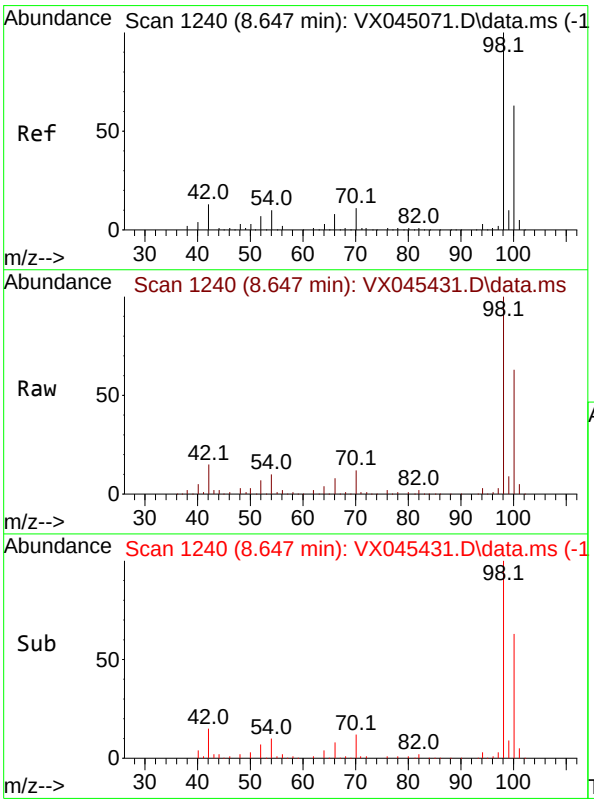
Ion	Ratio	Lower	Upper
88	100		
43	39.5	28.7	43.1
58	74.1	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

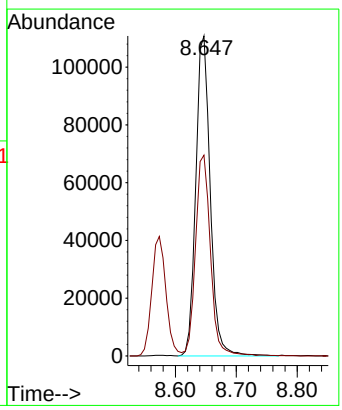
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

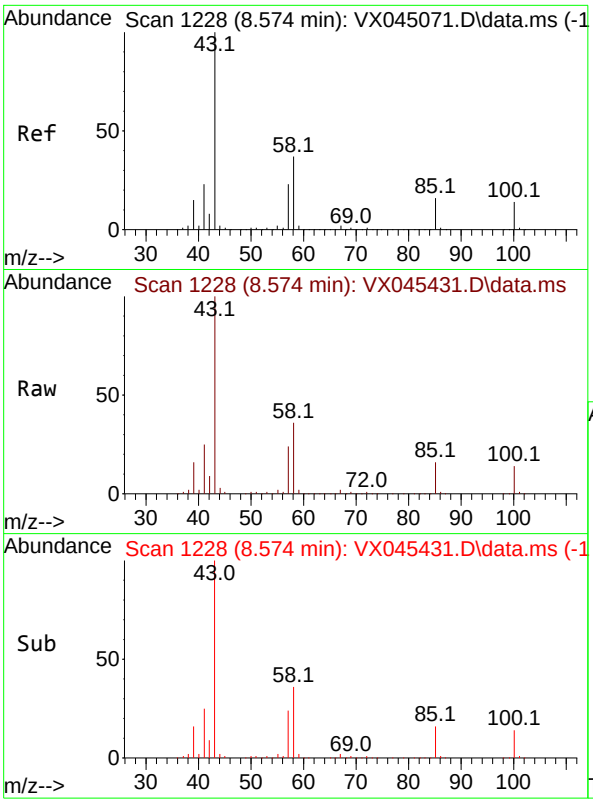


#50
Toluene-d8
Concen: 51.975 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 98 Resp: 182626

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0

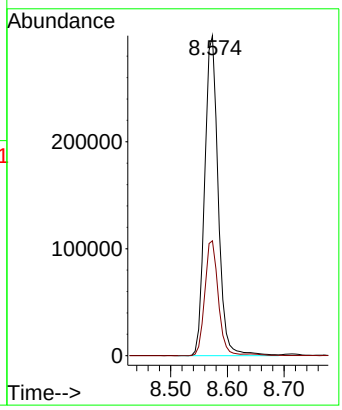




#51
4-Methyl-2-Pentanone
Concen: 290.090 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 49330

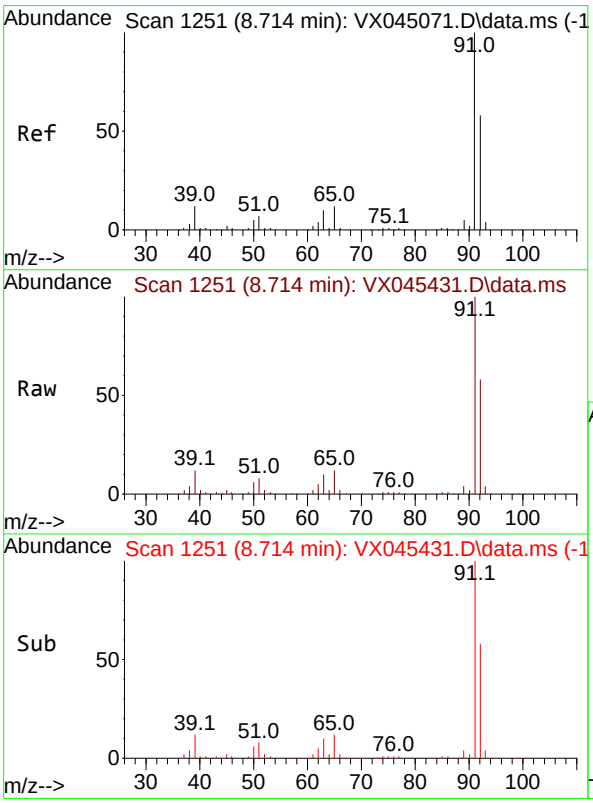
Ion	Ratio	Lower	Upper
43	100		
58	35.8	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

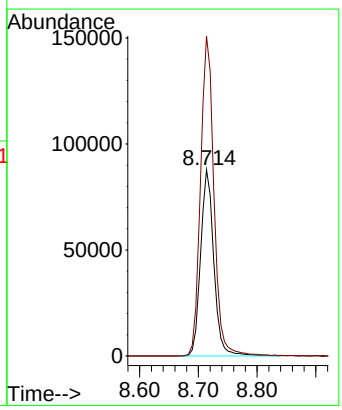
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

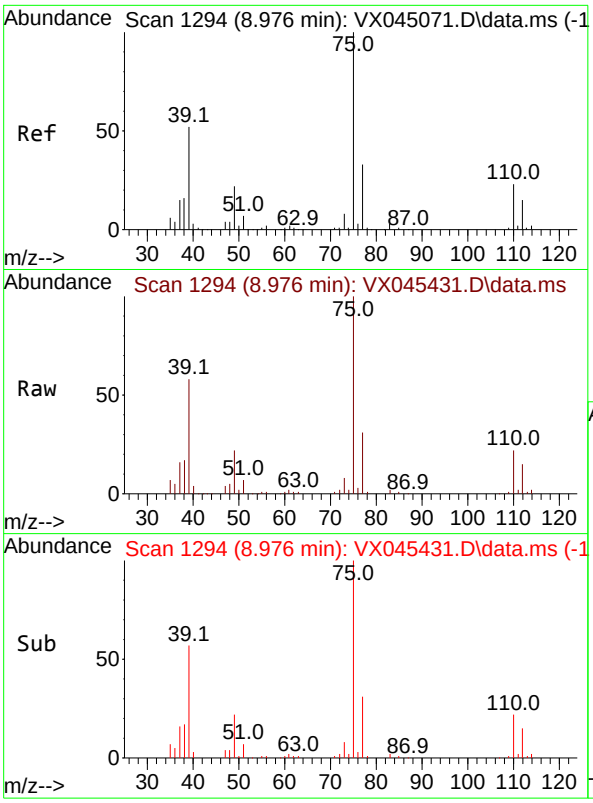


#52
Toluene
Concen: 55.590 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 92 Resp: 136895

Ion	Ratio	Lower	Upper
92	100		
91	175.3	138.9	208.3

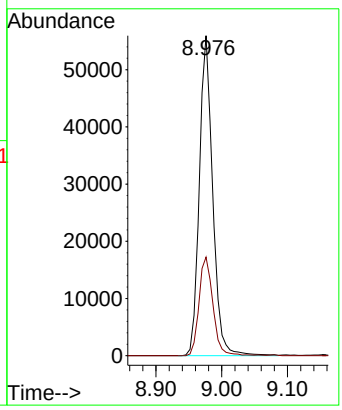




#53
t-1,3-Dichloropropene
Concen: 63.348 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 7923

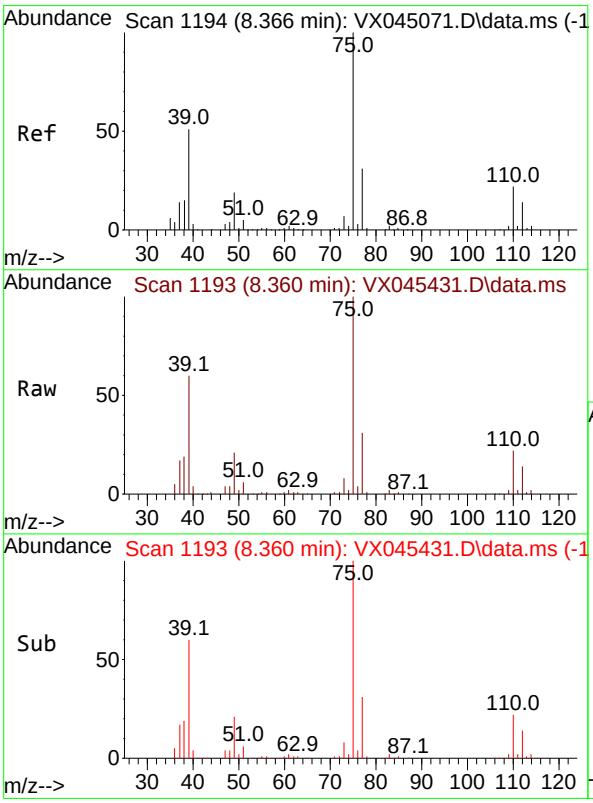
Ion	Ratio	Lower	Upper
75	100		
77	30.8	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

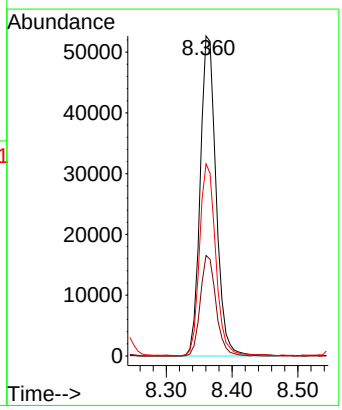
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

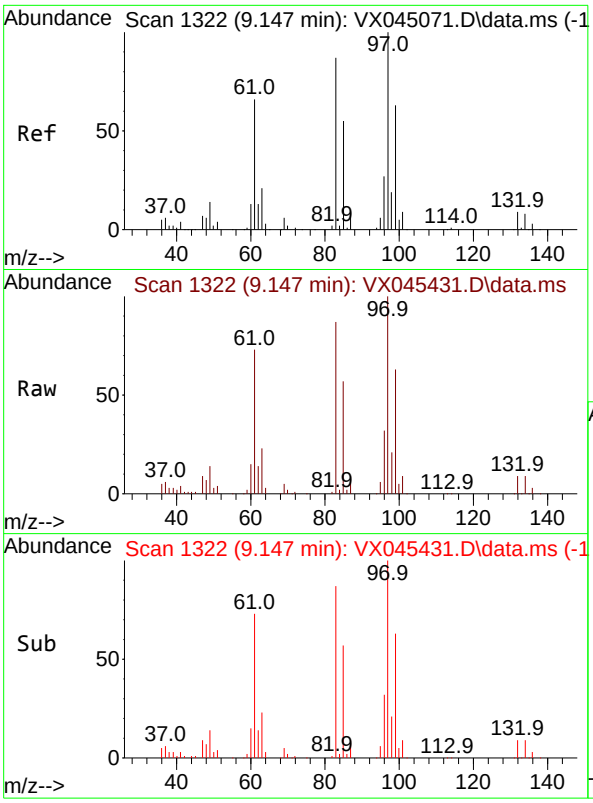


#54
cis-1,3-Dichloropropene
Concen: 60.662 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 88476

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.7	37.1
39	59.9	40.7	61.1

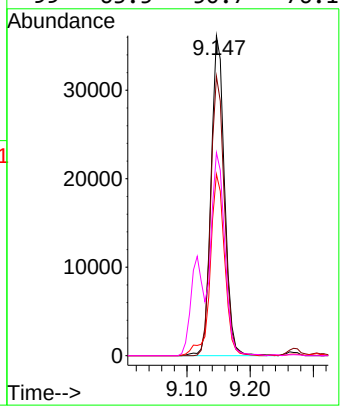




#55
1,1,2-Trichloroethane
Concen: 52.847 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 97 Resp: 5357

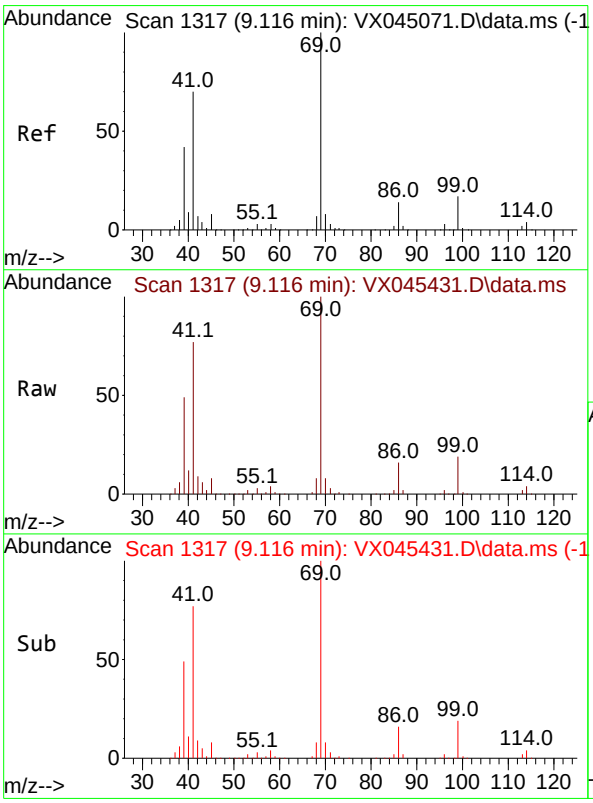
Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.4	104.2
85	56.7	44.1	66.1
99	63.5	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

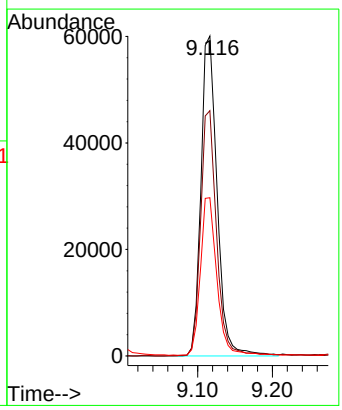
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

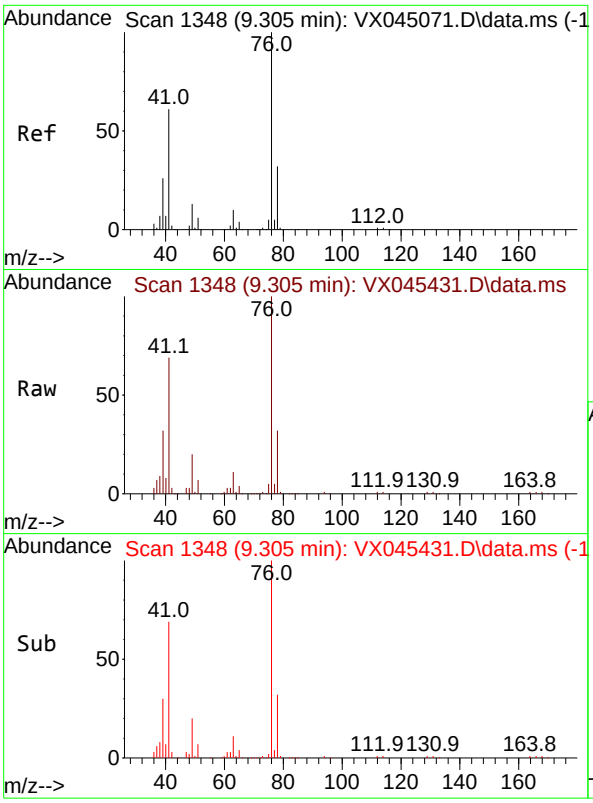


#56
Ethyl methacrylate
Concen: 58.682 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 69 Resp: 90431

Ion	Ratio	Lower	Upper
69	100		
41	76.5	57.0	85.4
39	50.1	34.2	51.4

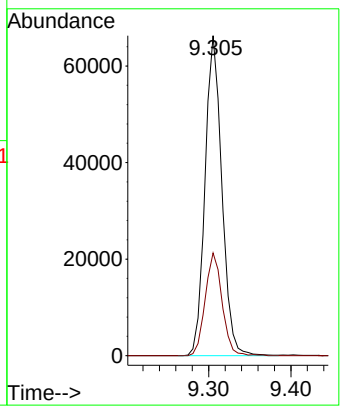




#57
1,3-Dichloropropane
Concen: 53.749 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 76 Resp: 9429

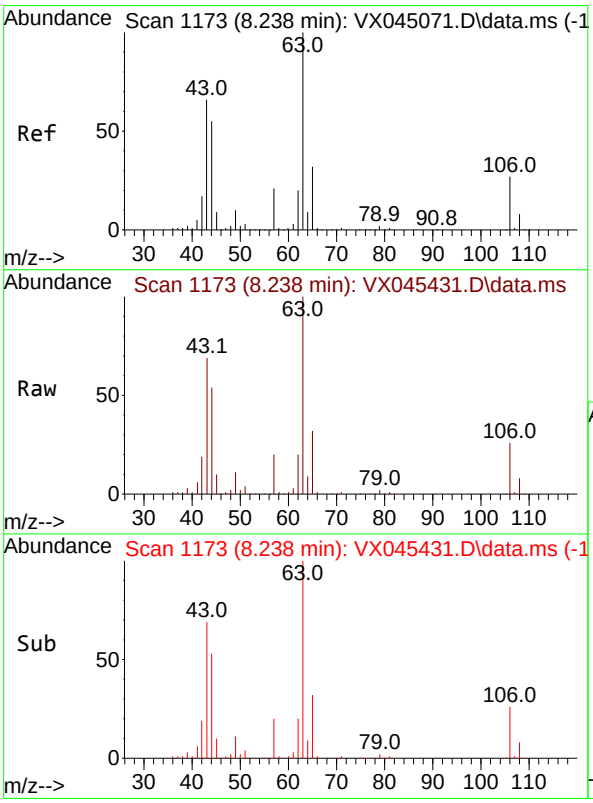
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

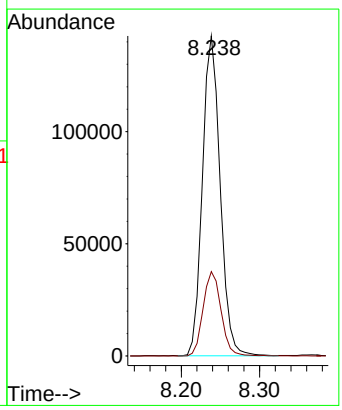
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

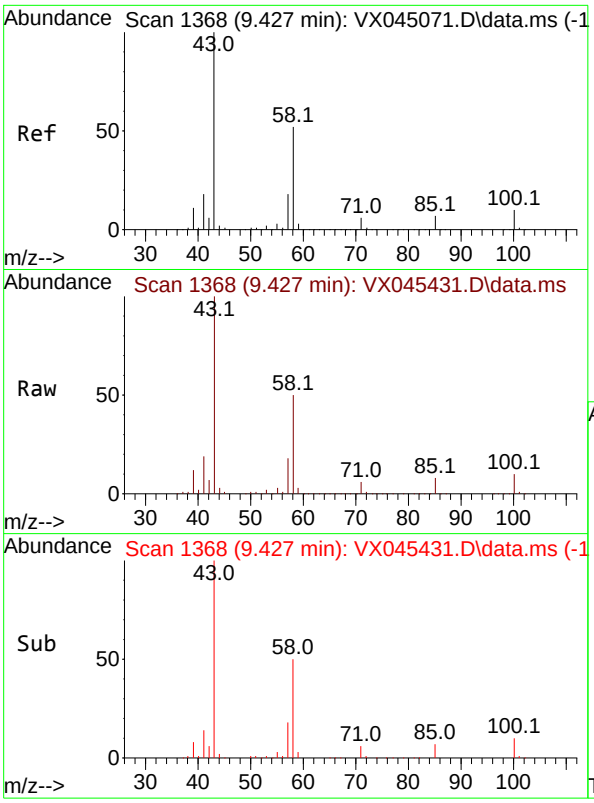


#58
2-Chloroethyl Vinyl ether
Concen: 298.307 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 63 Resp: 224245

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3

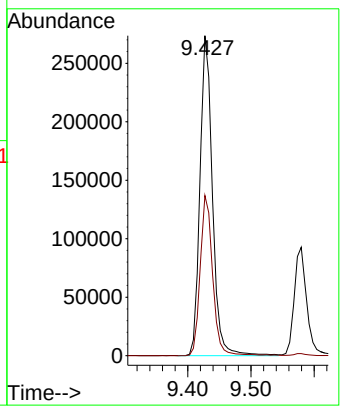




#59
2-Hexanone
Concen: 305.413 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 37629

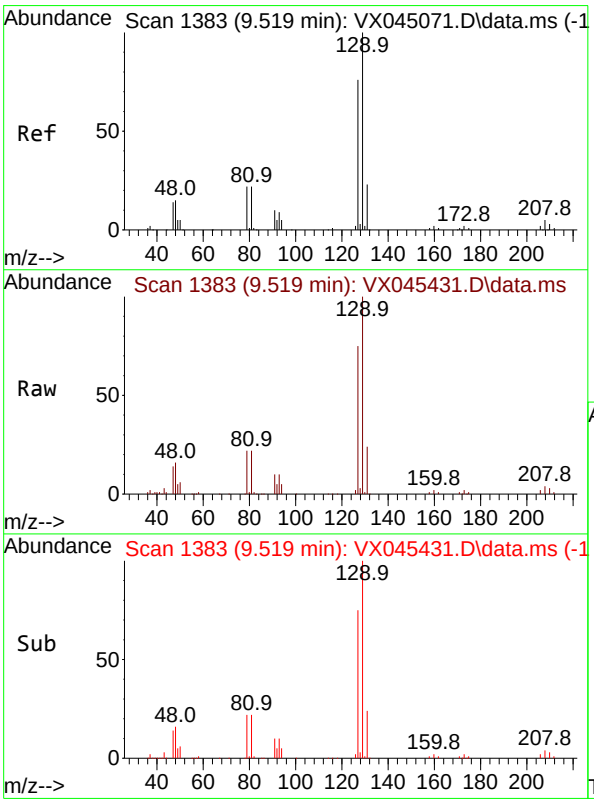
Ion	Ratio	Lower	Upper
43	100		
58	50.1	25.9	77.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

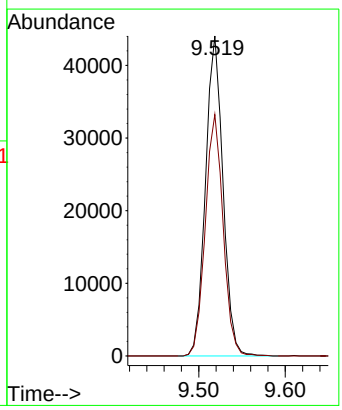
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

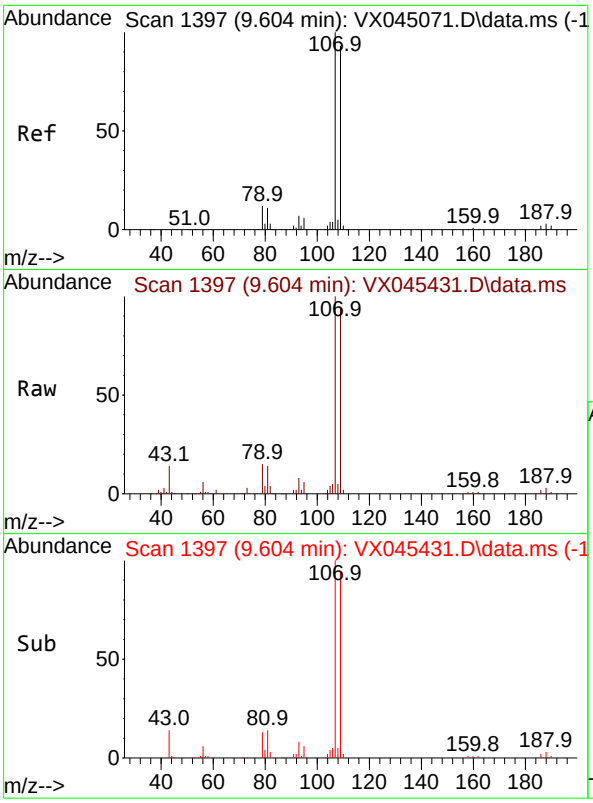


#60
Dibromochloromethane
Concen: 58.159 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:129 Resp: 61649

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5

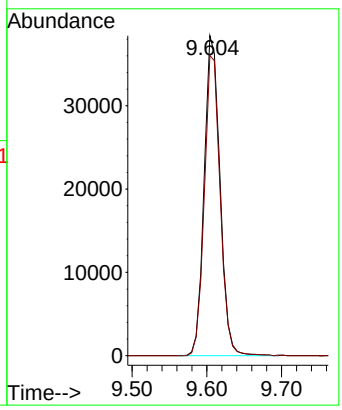




#61
1,2-Dibromoethane
Concen: 55.824 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:107 Resp: 5649

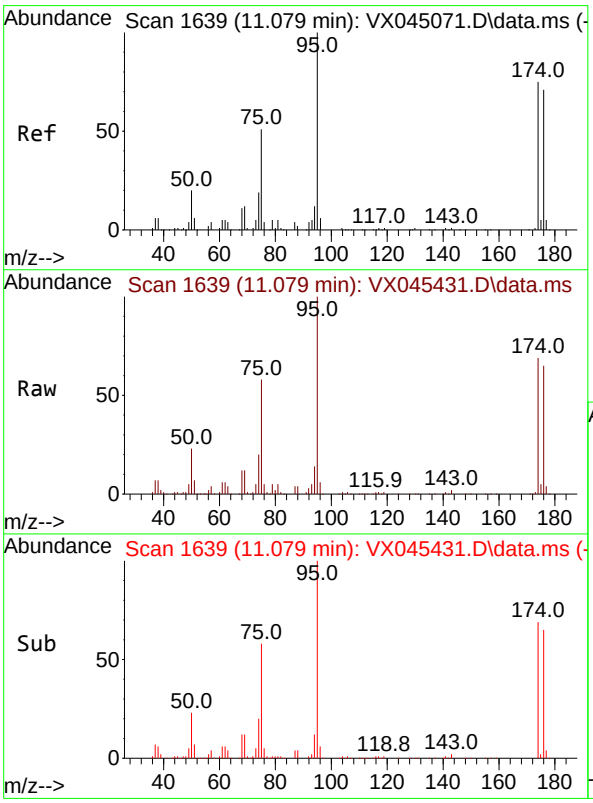
Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

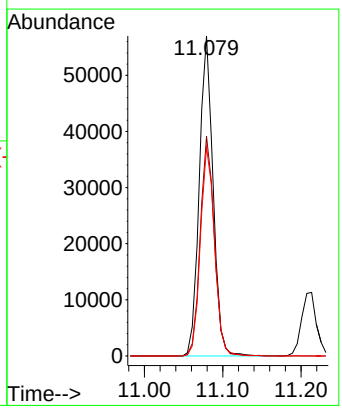
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

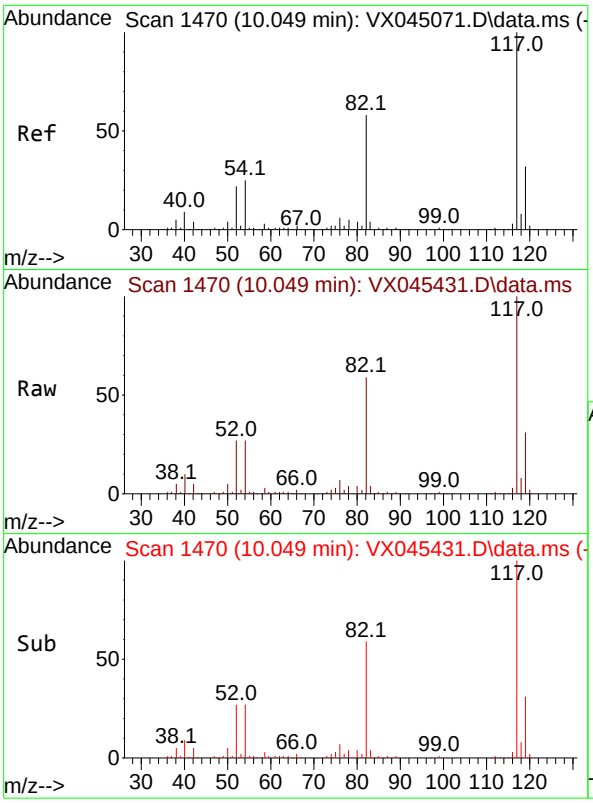


#62
4-Bromofluorobenzene
Concen: 59.846 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 95 Resp: 69681

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	148.2
176	66.9	0.0	141.4

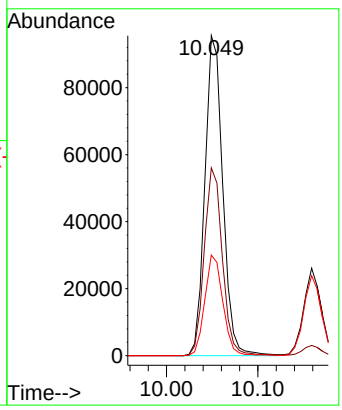




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:117 Resp: 12957

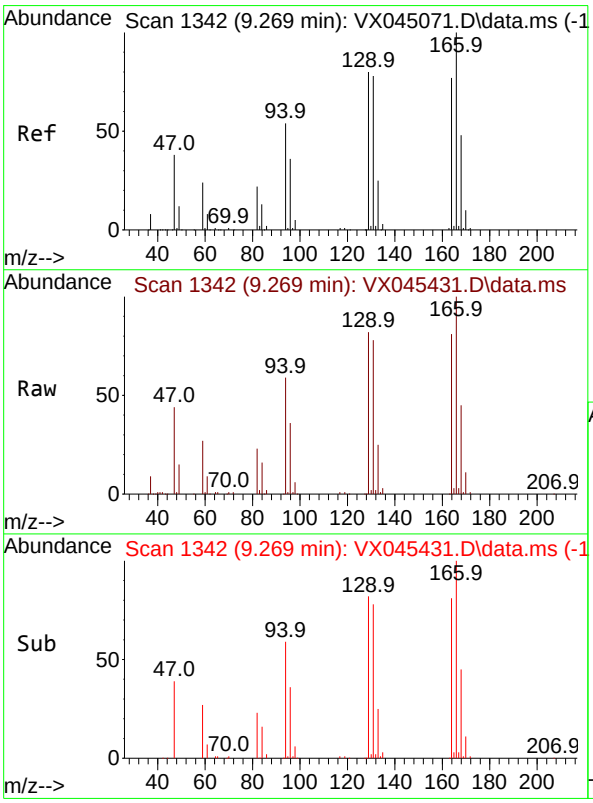
Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.3	69.5
119	31.5	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

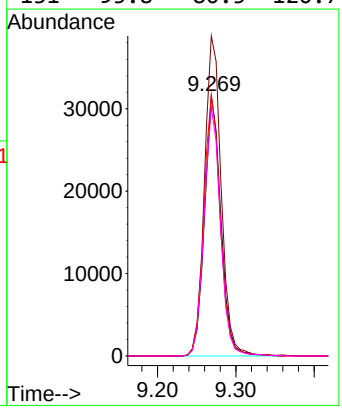
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

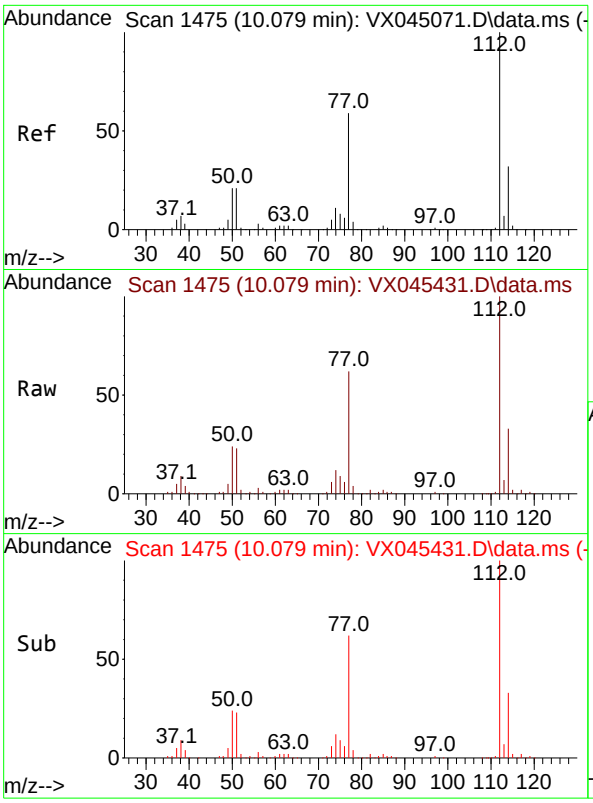


#64
Tetrachloroethene
Concen: 55.192 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:164 Resp: 45803

Ion	Ratio	Lower	Upper
164	100		
166	123.0	103.6	155.4
129	100.5	82.7	124.1
131	95.8	80.5	120.7

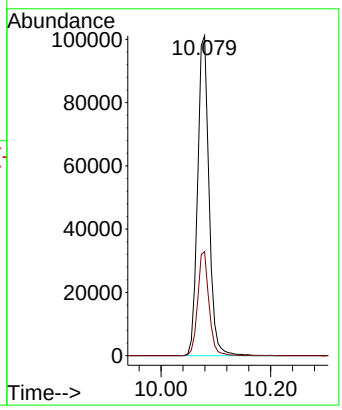




#65
Chlorobenzene
Concen: 53.387 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:112 Resp: 14637

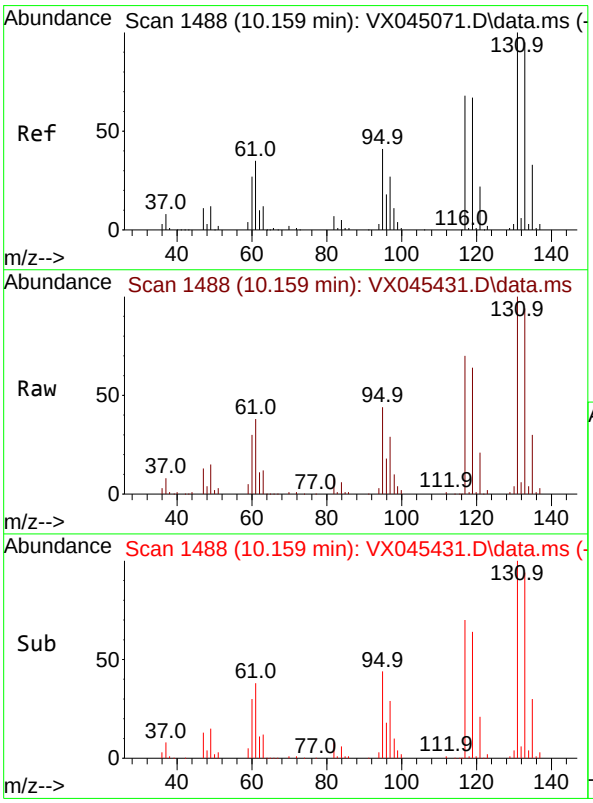
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

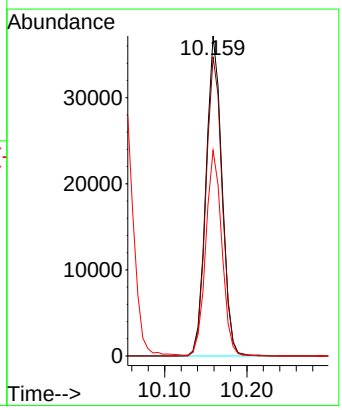
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

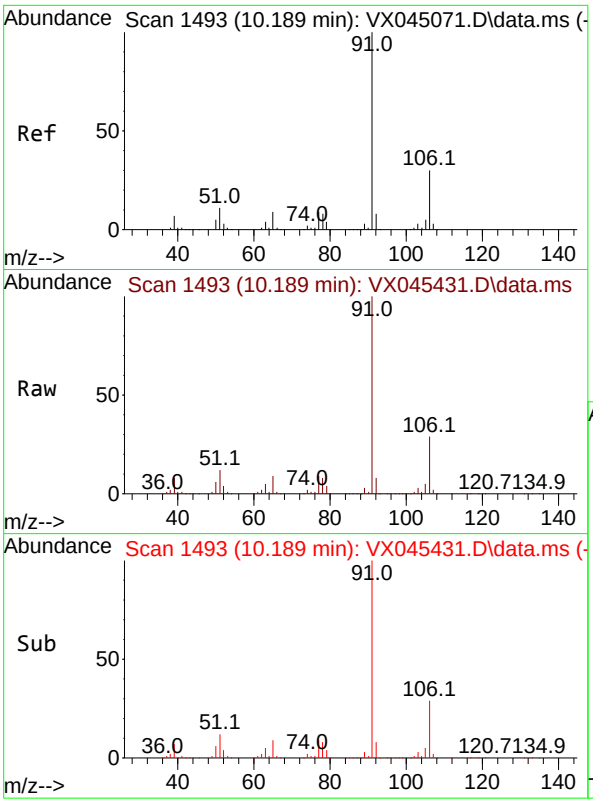


#66
1,1,1,2-Tetrachloroethane
Concen: 55.062 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:131 Resp: 50276

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.6	145.9
119	64.2	33.9	101.7

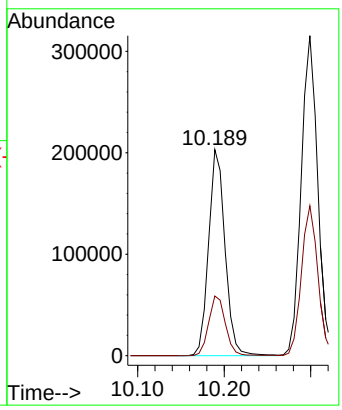




#67
Ethyl Benzene
Concen: 56.096 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 91 Resp: 26799

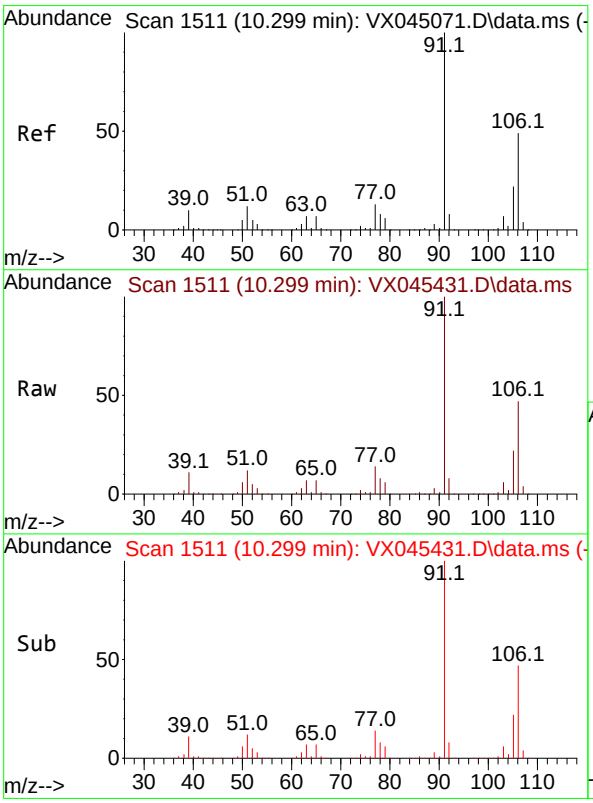
Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

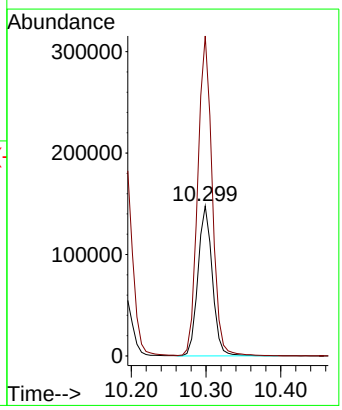
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

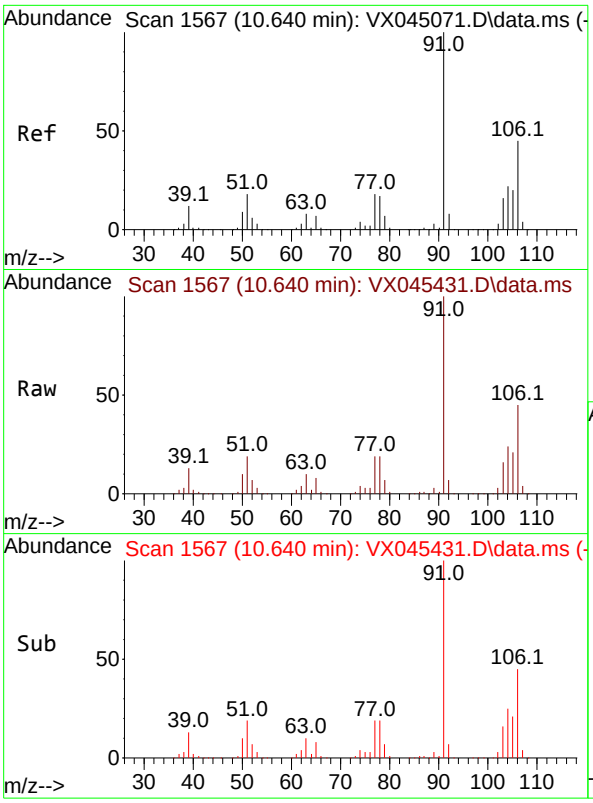


#68
m/p-Xylenes
Concen: 112.611 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:106 Resp: 196944

Ion	Ratio	Lower	Upper
106	100		
91	214.1	165.4	248.0

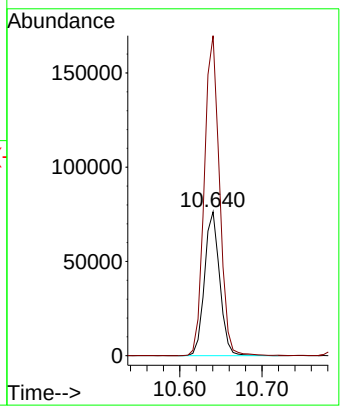




#69
o-Xylene
Concen: 55.328 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:106 Resp: 9759

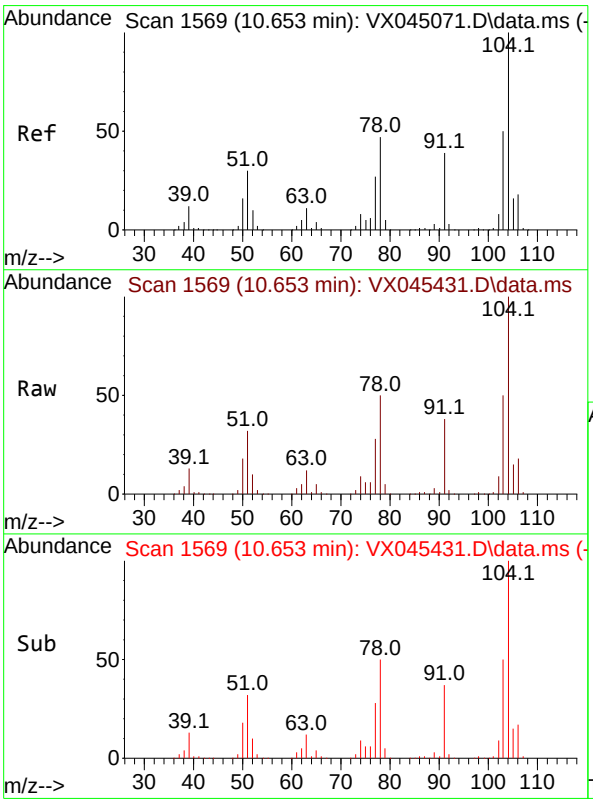
Ion	Ratio	Lower	Upper
106	100		
91	223.3	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

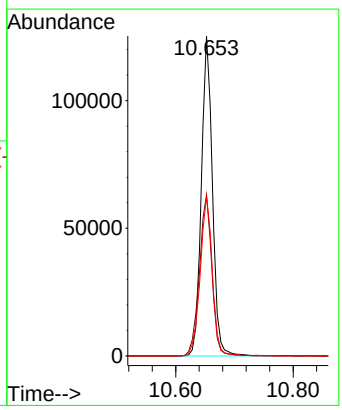
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

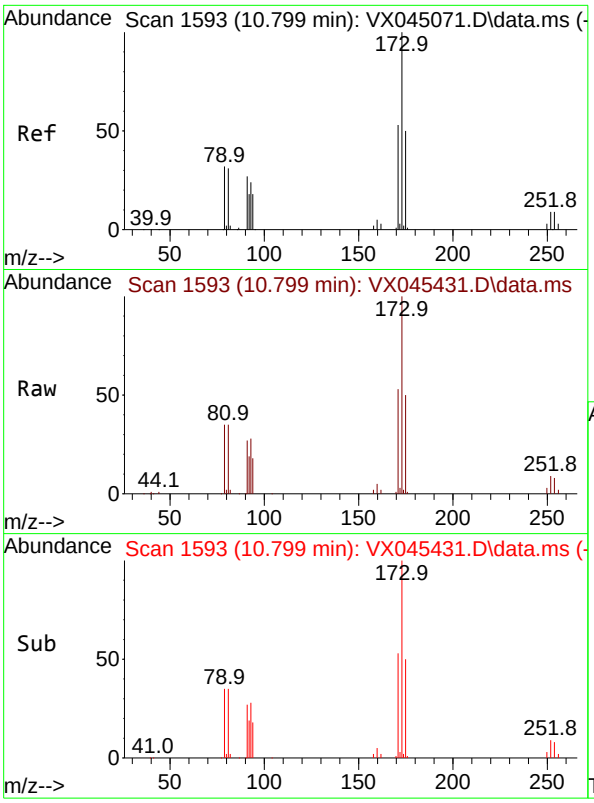


#70
Styrene
Concen: 57.595 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:104 Resp: 164378

Ion	Ratio	Lower	Upper
104	100		
78	56.8	42.2	63.4
103	54.8	43.8	65.8

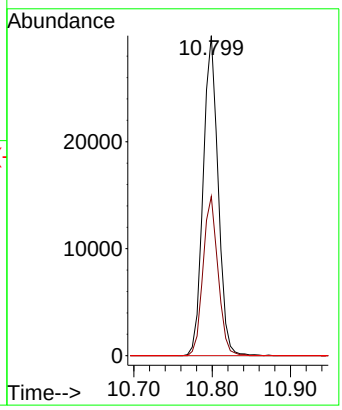




#71
Bromoform
Concen: 57.503 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

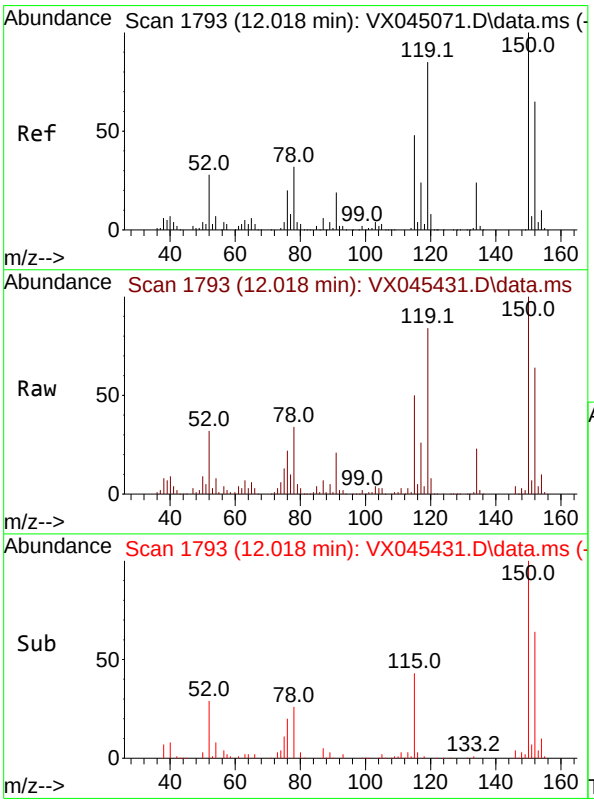
Tgt Ion:173 Resp: 3959

Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

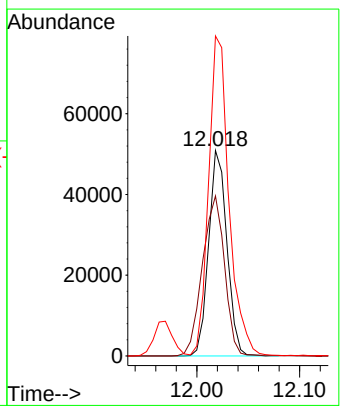
Manual Integrations APPROVED
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

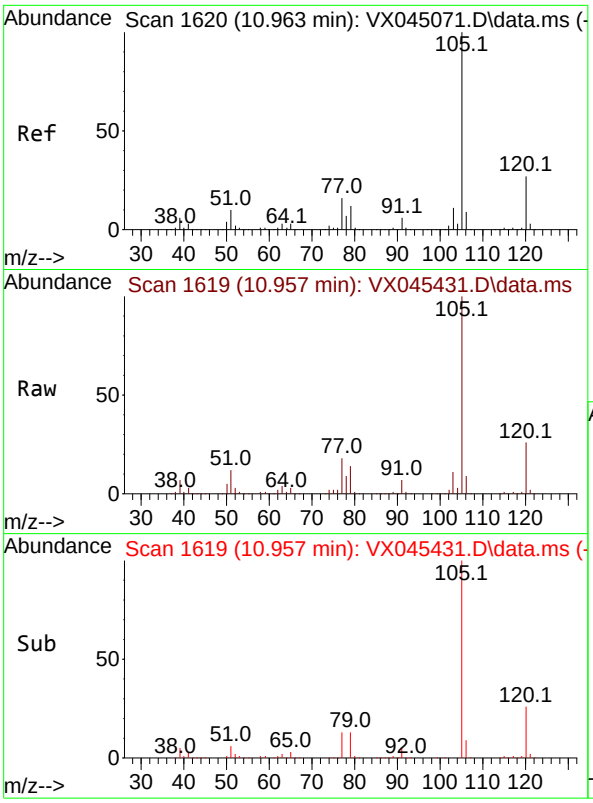


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:152 Resp: 63016

Ion	Ratio	Lower	Upper
152	100		
115	94.4	44.2	132.6
150	173.0	0.0	349.0

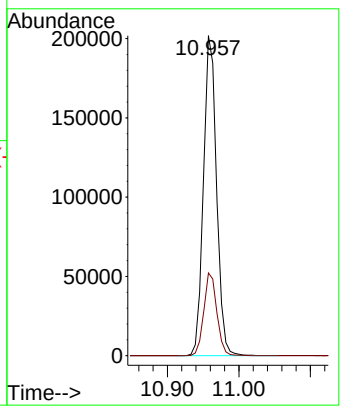




#73
Isopropylbenzene
Concen: 52.224 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:105 Resp: 25686

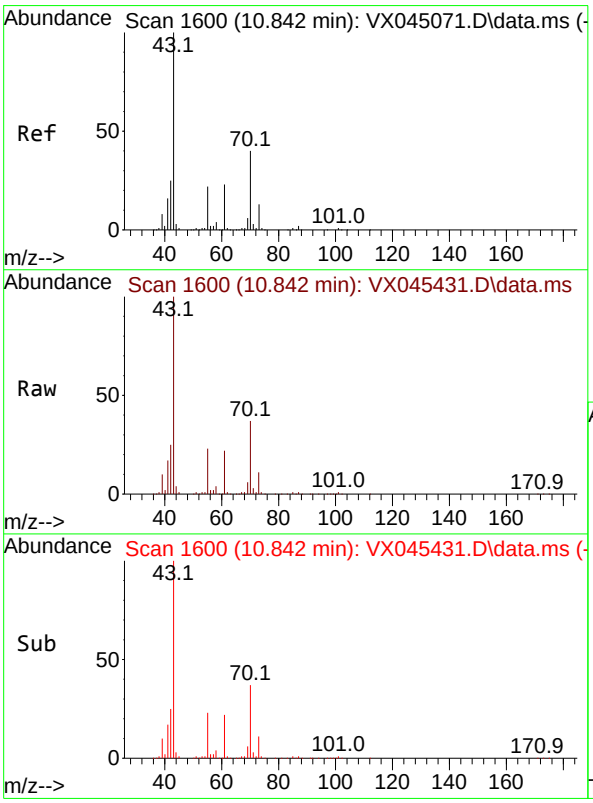
Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

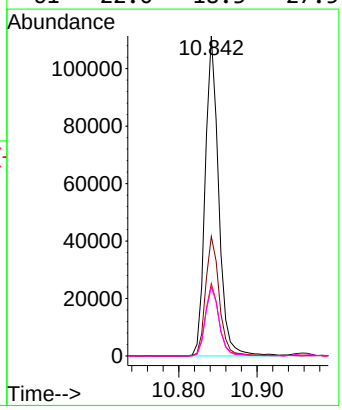
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

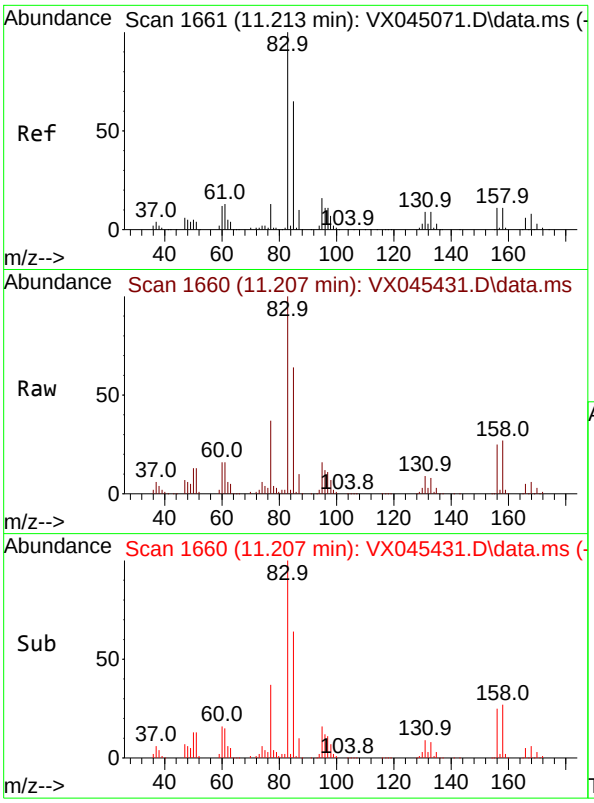


#74
N-amyl acetate
Concen: 57.592 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 132920

Ion	Ratio	Lower	Upper
43	100		
70	38.1	31.8	47.6
55	23.0	18.3	27.5
61	22.0	18.3	27.5

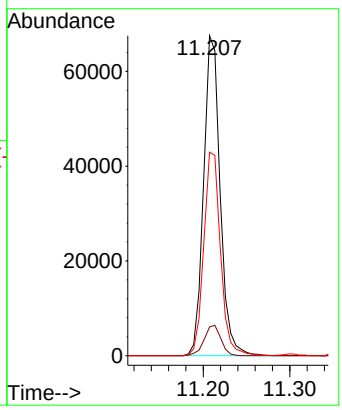




#75
1,1,2,2-Tetrachloroethane
Concen: 49.643 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 83 Resp: 8960

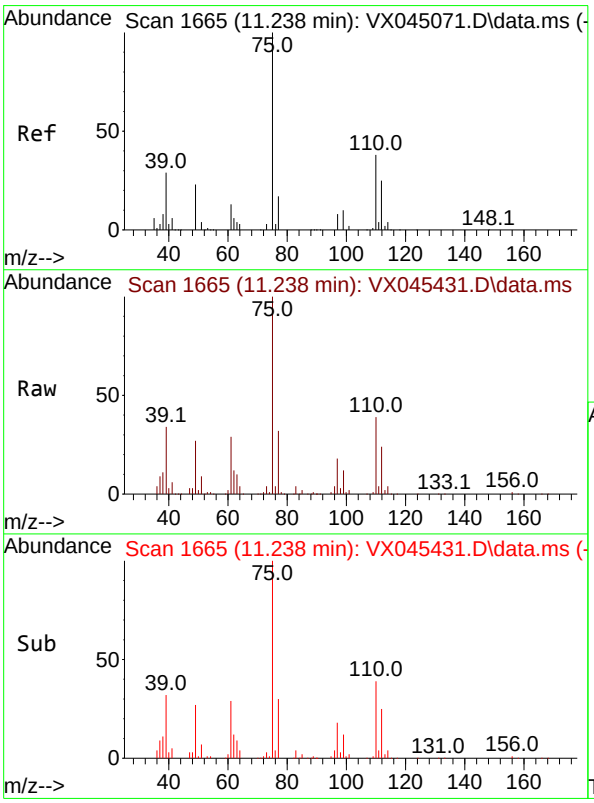
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.4
85	64.4	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

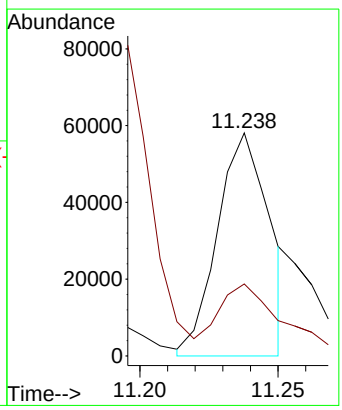
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

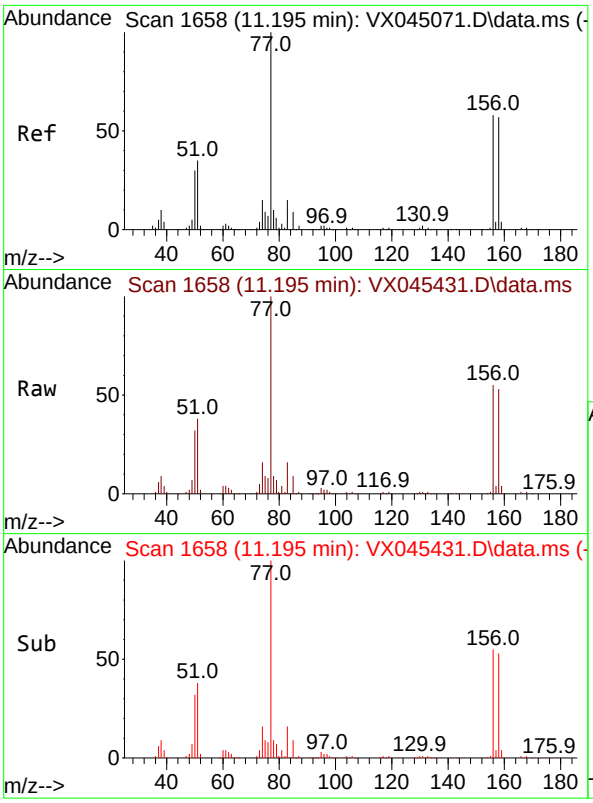


#76
1,2,3-Trichloropropane
Concen: 51.715 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 75851

Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.7	62.1

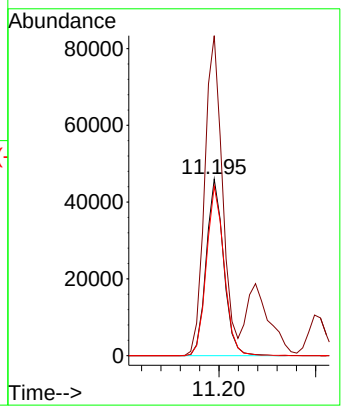




#77
Bromobenzene
Concen: 49.647 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:156 Resp: 5761

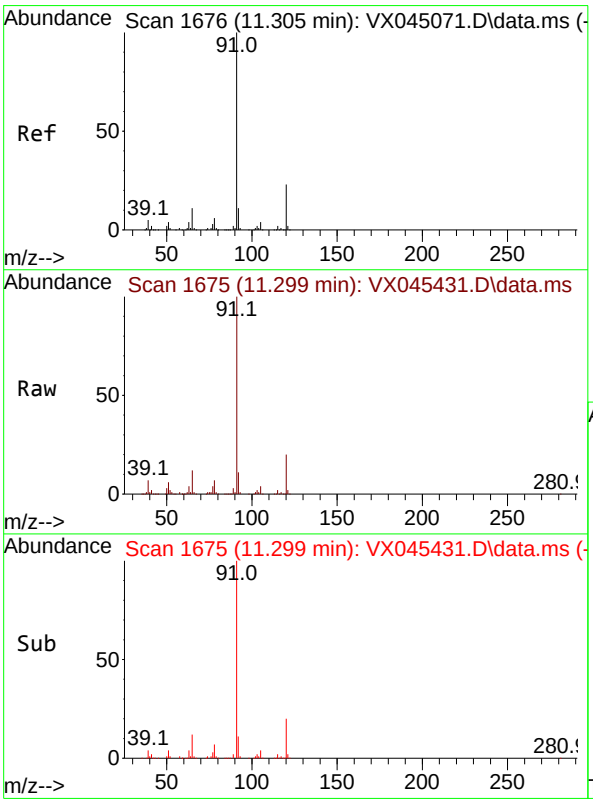
Ion	Ratio	Lower	Upper
156	100		
77	185.3	85.8	257.4
158	97.6	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

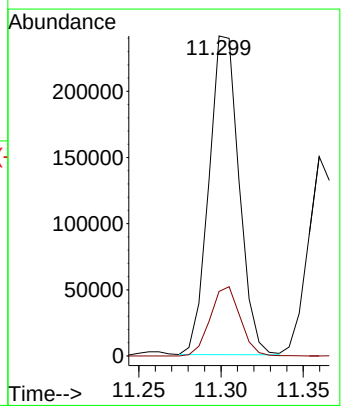
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

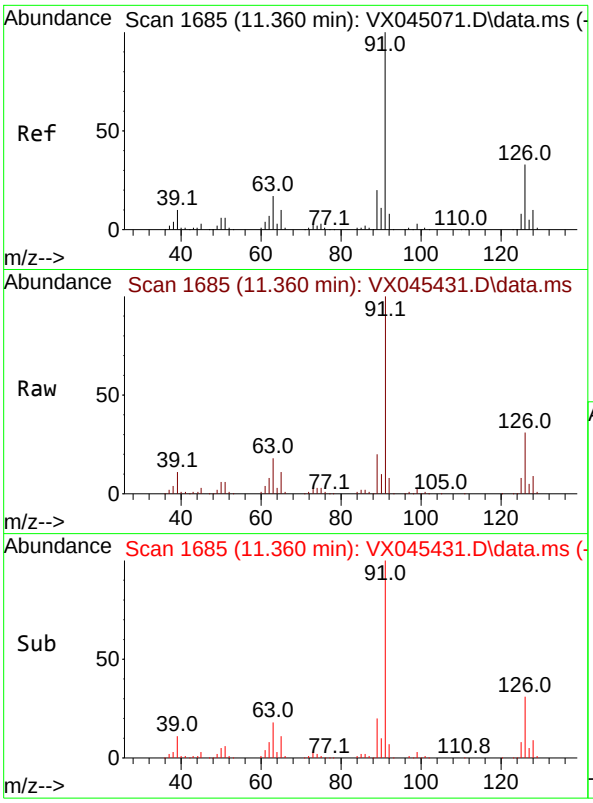


#78
n-propylbenzene
Concen: 55.312 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 91 Resp: 307324

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.2	33.6

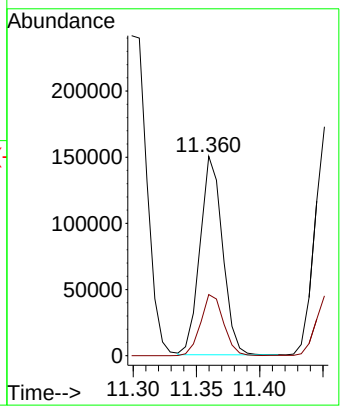




#79
2-Chlorotoluene
Concen: 52.637 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 91 Resp: 18625

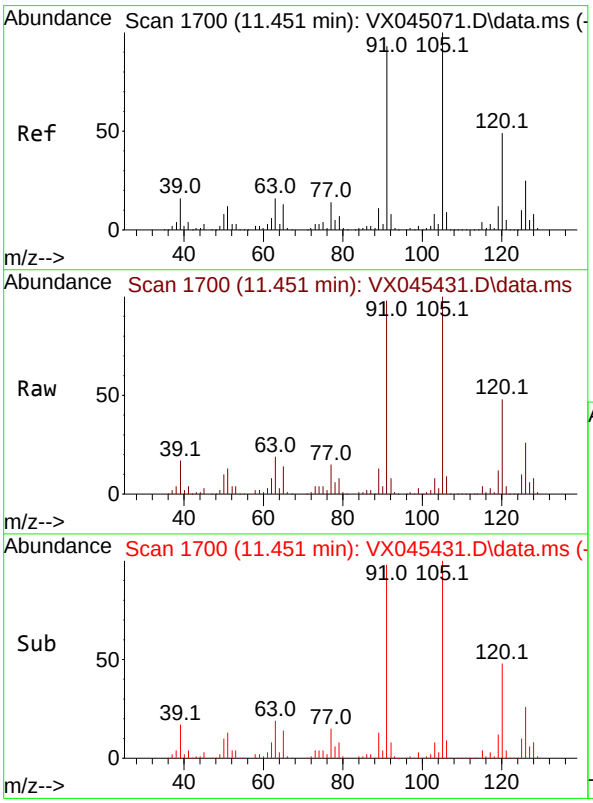
Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

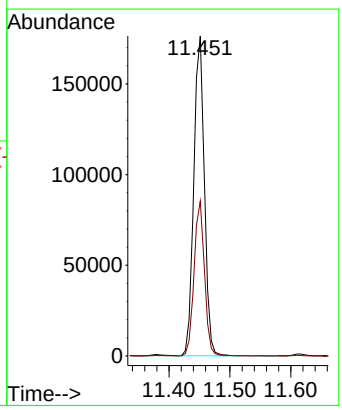
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

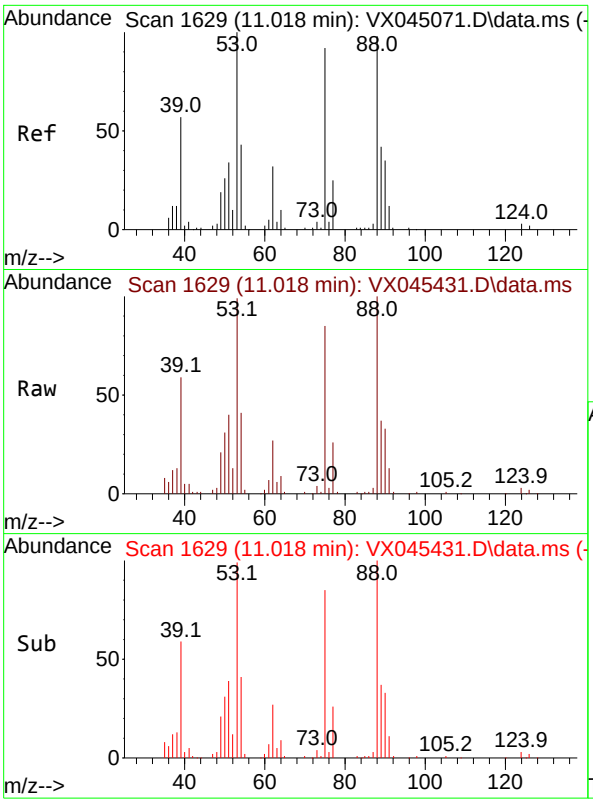


#80
1,3,5-Trimethylbenzene
Concen: 53.605 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:105 Resp: 213188

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.1	72.2

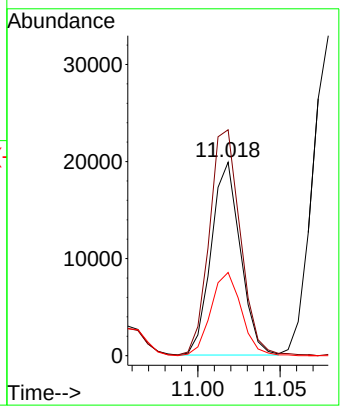




#81
trans-1,4-Dichloro-2-butene
Concen: 57.344 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 2457

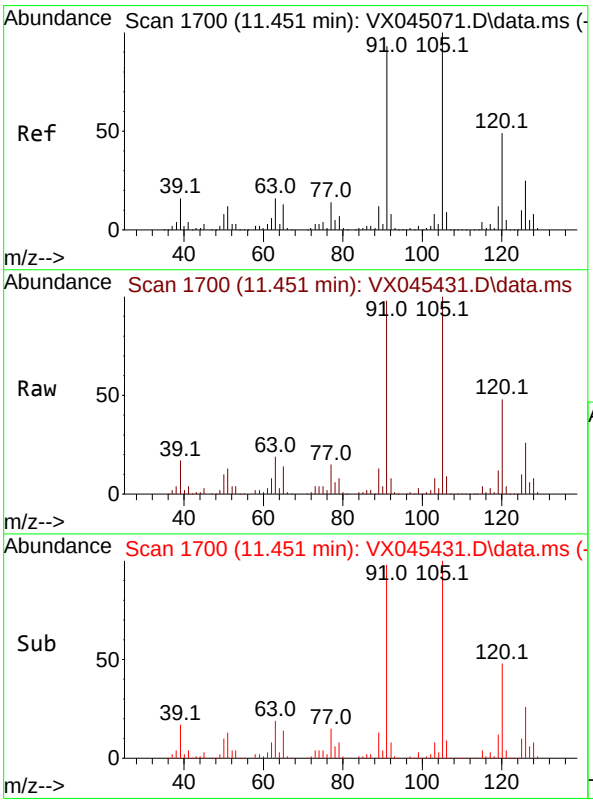
Ion	Ratio	Lower	Upper
75	100		
53	124.7	88.5	132.7
89	45.0	36.2	54.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

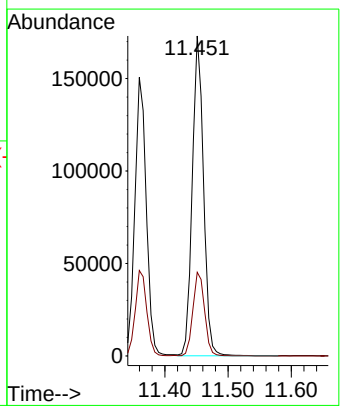
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

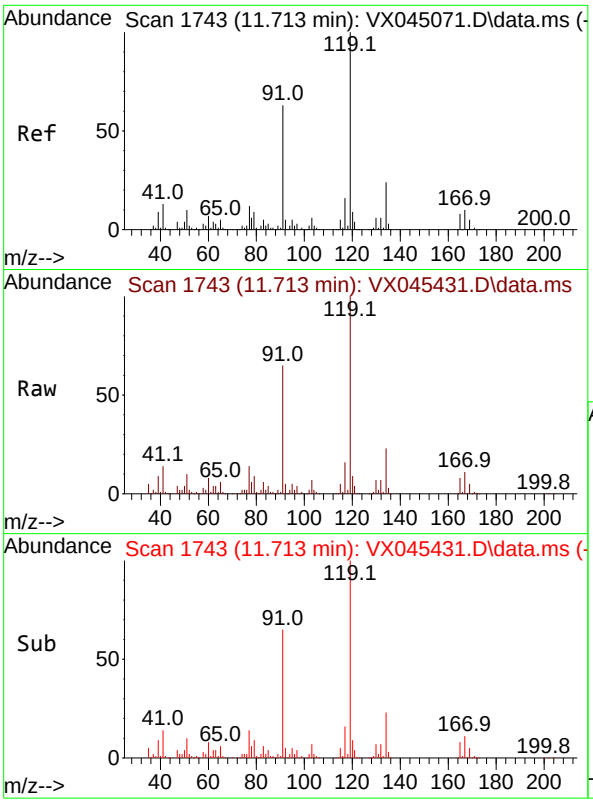


#82
4-Chlorotoluene
Concen: 55.350 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 91 Resp: 213457

Ion	Ratio	Lower	Upper
91	100		
126	27.1	14.1	42.4

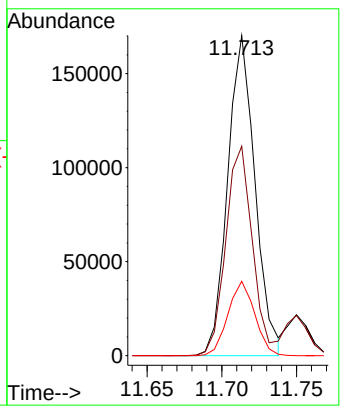




#83
tert-Butylbenzene
Concen: 53.053 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:119 Resp: 21679

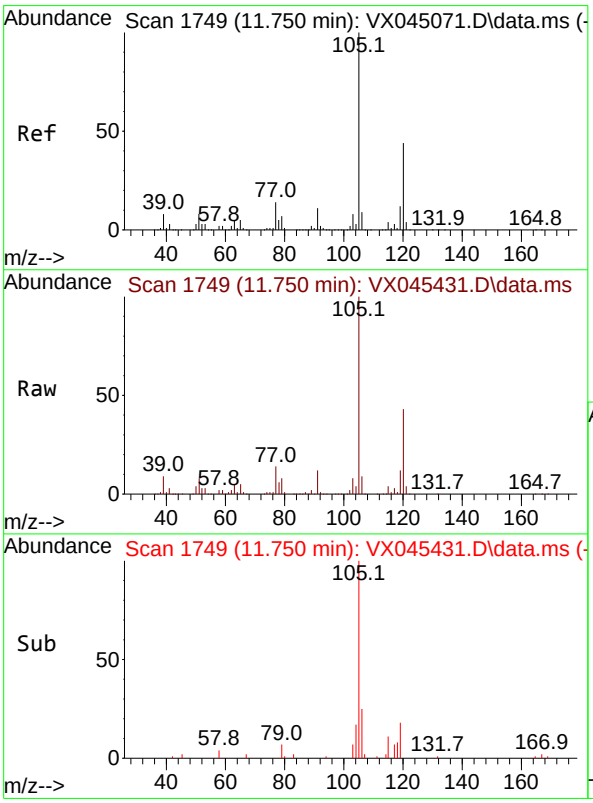
Ion	Ratio	Lower	Upper
119	100		
91	64.4	30.7	92.1
134	22.8	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

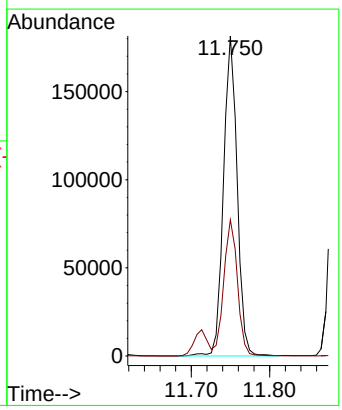
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

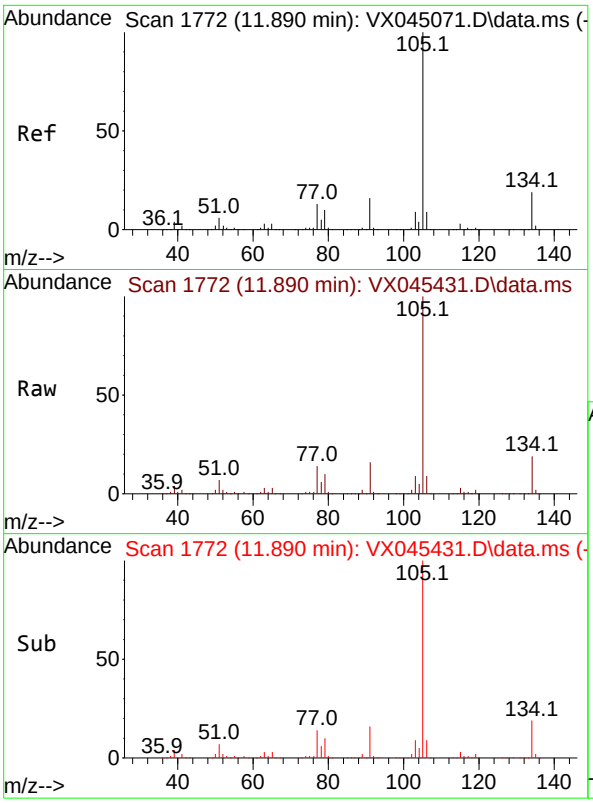


#84
1,2,4-Trimethylbenzene
Concen: 55.071 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:105 Resp: 220378

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.1

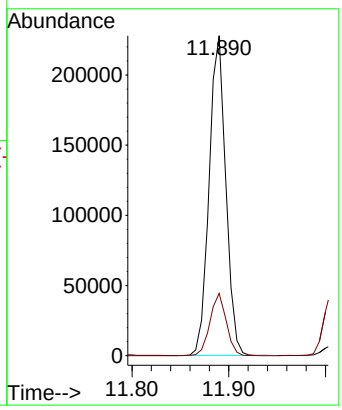




#85
sec-Butylbenzene
Concen: 55.742 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:105 Resp: 27285

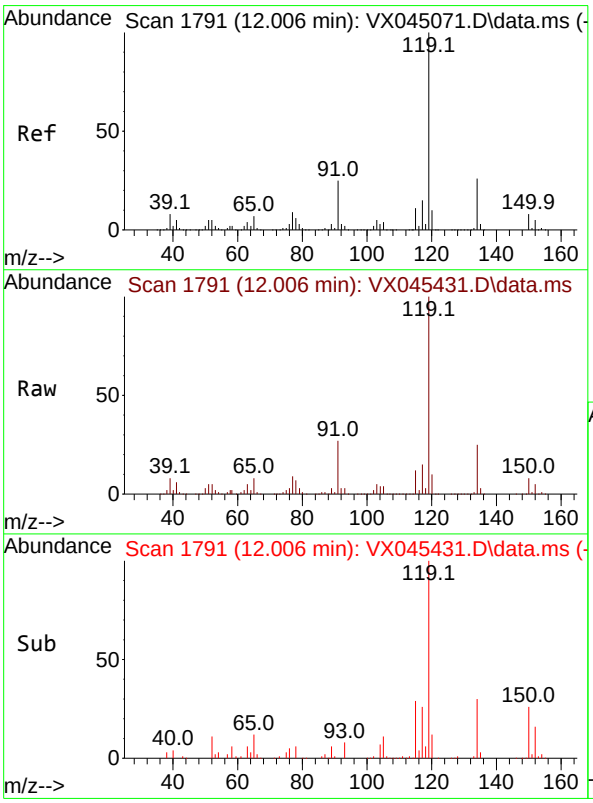
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

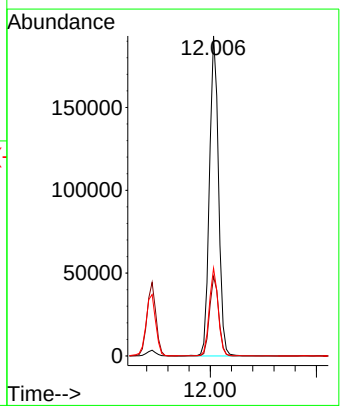
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

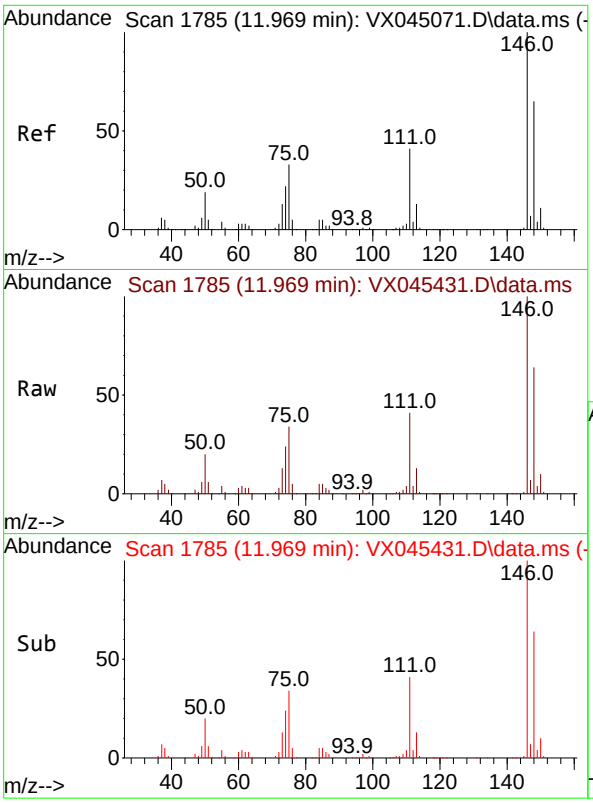


#86
p-Isopropyltoluene
Concen: 57.799 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:119 Resp: 228640

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.9	38.6
91	26.6	12.7	38.0

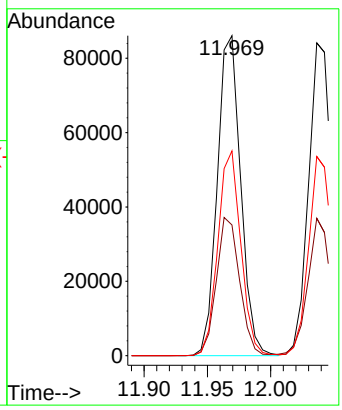




#87
1,3-Dichlorobenzene
Concen: 53.426 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:146 Resp: 11060

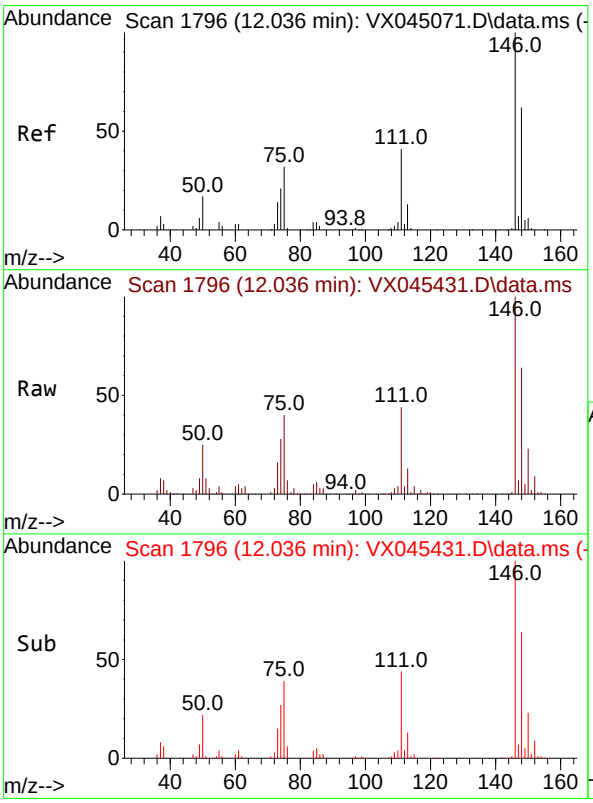
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.4
148	62.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

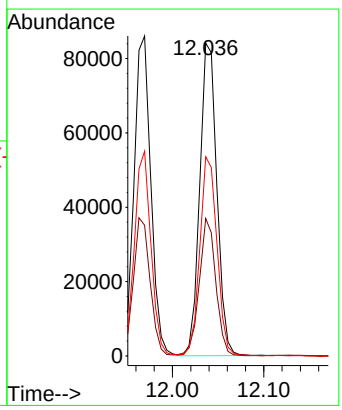
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

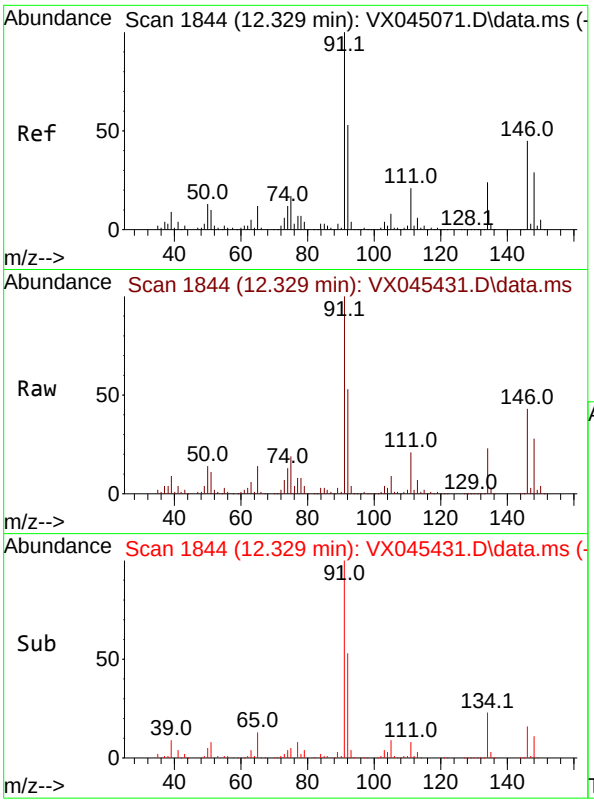


#88
1,4-Dichlorobenzene
Concen: 52.095 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:146 Resp: 109112

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.2	60.5
148	64.0	31.9	95.9

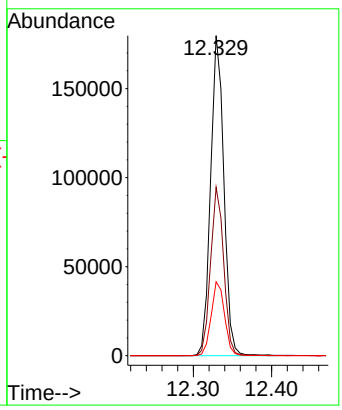




#89
n-Butylbenzene
Concen: 61.782 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 91 Resp: 21048

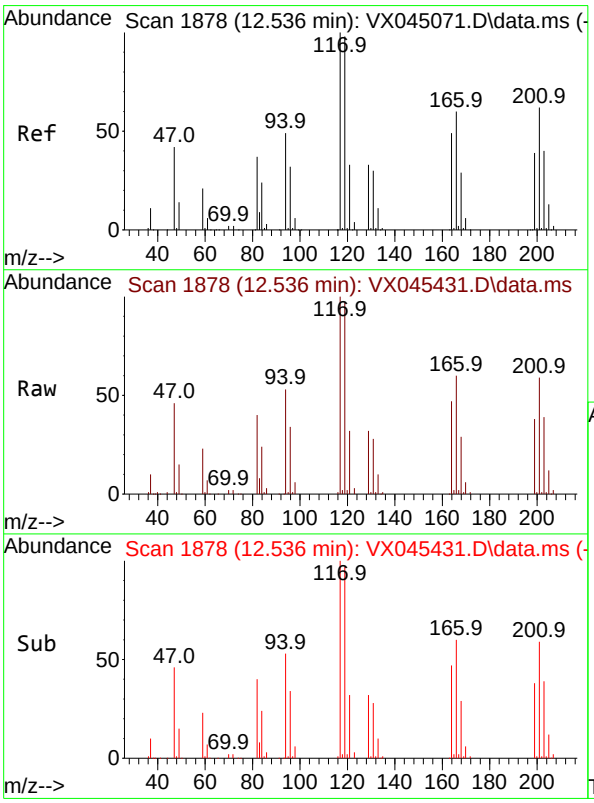
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.7	80.0
134	23.4	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

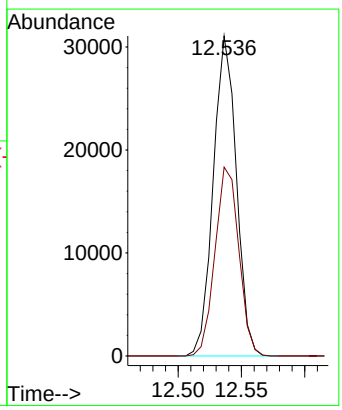
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

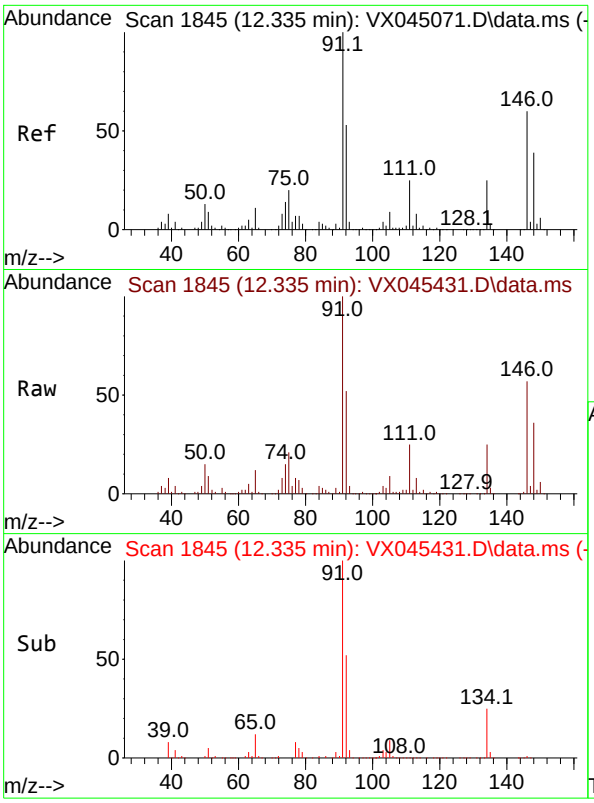


#90
Hexachloroethane
Concen: 54.992 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:117 Resp: 39347

Ion	Ratio	Lower	Upper
117	100		
201	61.0	31.9	95.9

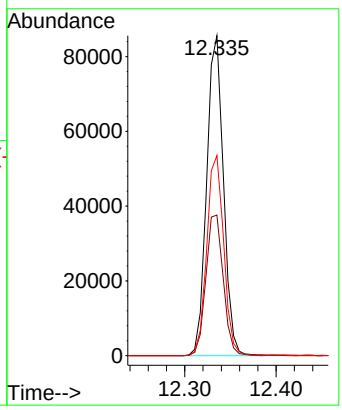




#91
1,2-Dichlorobenzene
Concen: 52.598 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:146 Resp: 10923

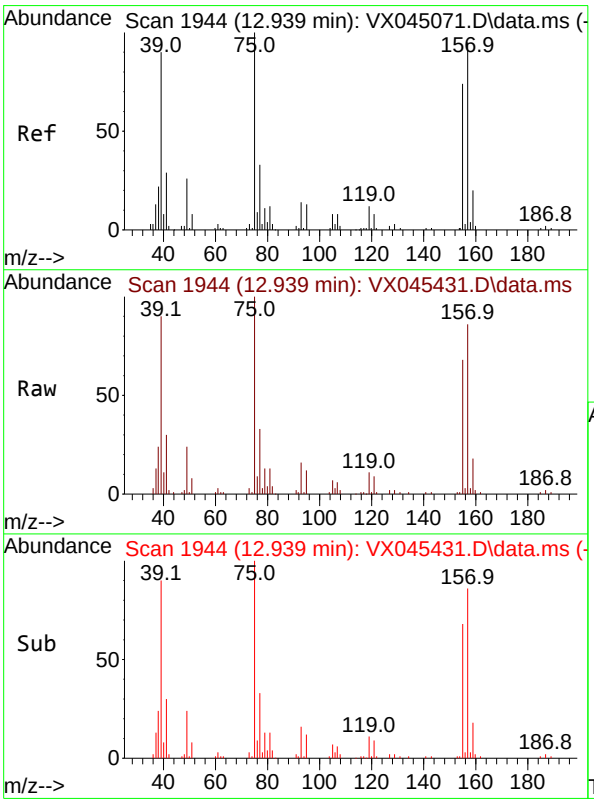
Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.6	65.0
148	63.2	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

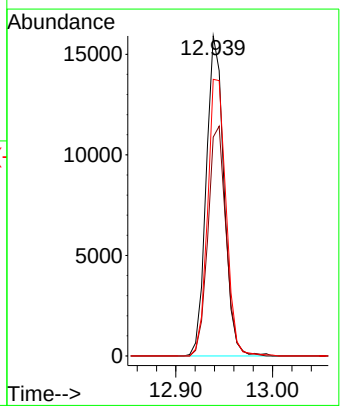
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

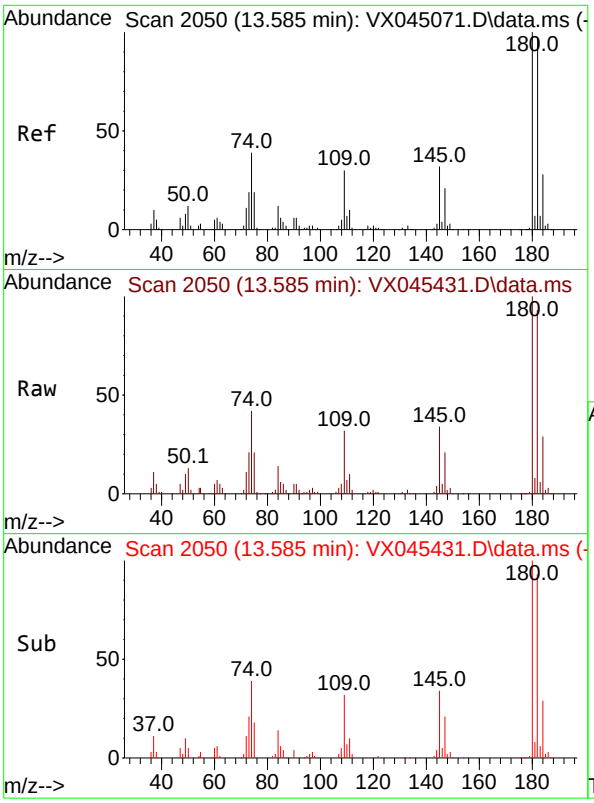


#92
1,2-Dibromo-3-Chloropropane
Concen: 57.847 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 20341

Ion	Ratio	Lower	Upper
75	100		
155	73.1	39.6	118.7
157	89.5	51.1	153.4

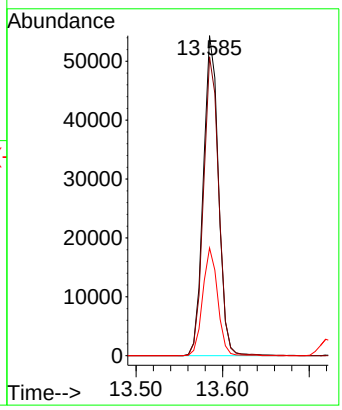




#93
1,2,4-Trichlorobenzene
Concen: 55.783 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:180 Resp: 6596

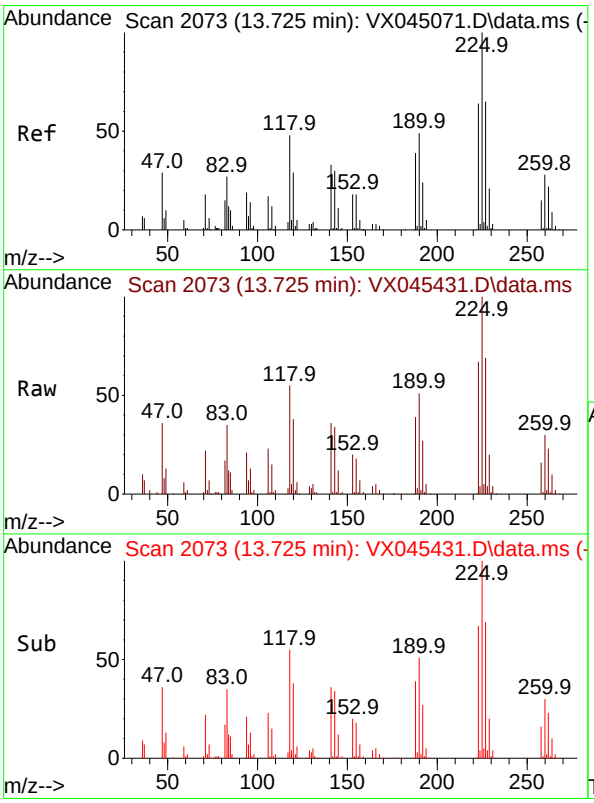
Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.3	141.9
145	33.2	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

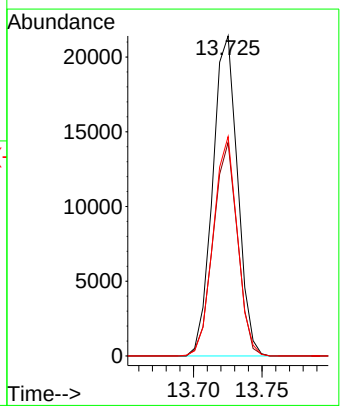
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

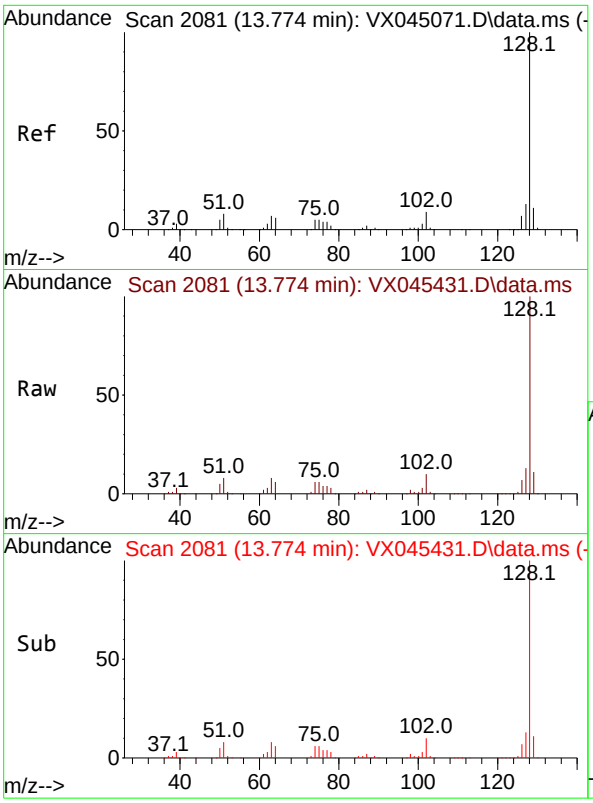


#94
Hexachlorobutadiene
Concen: 55.799 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:225 Resp: 27052

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.9	95.7
227	66.4	31.4	94.0

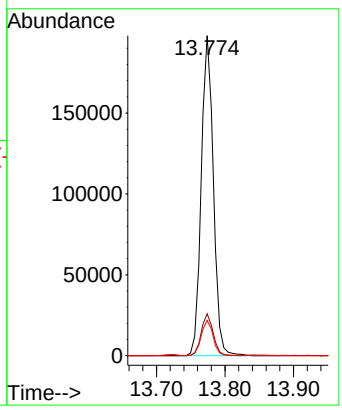




#95
Naphthalene
Concen: 53.764 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:128 Resp: 24427

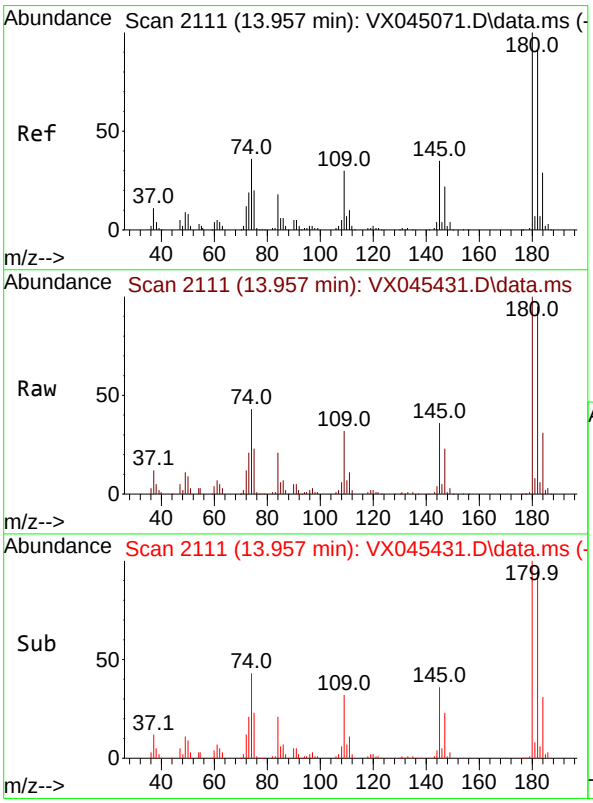
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

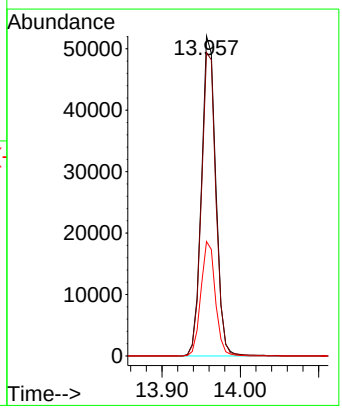
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.935 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:180 Resp: 66037

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.6
145	36.0	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	81	0.00
2	T	Dichlorodifluoromethane	0.629	0.798	-26.9#	103	0.00
3	P	Chloromethane	0.770	0.804	-4.4	86	0.00
4	C	Vinyl Chloride	0.764	0.720	5.8#	76	0.00
5	T	Bromomethane	0.300	0.346	-15.3	95	0.00
6	T	Chloroethane	0.352	0.394	-11.9	85	0.00
7	T	Trichlorofluoromethane	1.011	1.093	-8.1	84	0.00
8	T	Diethyl Ether	0.396	0.356	10.1	74	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.699	-20.3	95	0.00
10	T	Methyl Iodide	0.726	0.823	-13.4	86	0.00
11	T	Tert butyl alcohol	0.151	0.133	11.9	80	0.00
12	CM	1,1-Dichloroethene	0.614	0.651	-6.0#	84	0.00
13	T	Acrolein	0.174	0.187	-7.5	87	0.00
14	T	Allyl chloride	1.094	1.222	-11.7	89	0.00
15	T	Acrylonitrile	0.404	0.404	0.0	80	0.00
16	T	Acetone	0.369	0.394	-6.8	90	0.00
17	T	Carbon Disulfide	1.636	1.643	-0.4	80	0.00
18	T	Methyl Acetate	0.888	0.856	3.6	80	0.00
19	T	Methyl tert-butyl Ether	2.061	2.180	-5.8	84	0.00
20	T	Methylene Chloride	0.731	0.729	0.3	84	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.641	-5.6	82	0.00
22	T	Diisopropyl ether	2.224	2.316	-4.1	82	0.00
23	T	Vinyl Acetate	1.856	2.127	-14.6	87	0.00
24	P	1,1-Dichloroethane	1.247	1.311	-5.1	85	0.00
25	T	2-Butanone	0.555	0.596	-7.4	83	0.00
26	T	2,2-Dichloropropane	0.585	0.969	-65.6#	131	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.773	-3.2	82	0.00
28	T	Bromochloromethane	0.594	0.584	1.7	78	0.00
29	T	Tetrahydrofuran	0.373	0.374	-0.3	81	0.00
30	C	Chloroform	1.239	1.317	-6.3#	85	0.00
31	T	Cyclohexane	1.082	1.188	-9.8	87	0.00
32	T	1,1,1-Trichloroethane	1.000	1.132	-13.2	89	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.876	-10.2	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	78	0.00
35	S	Dibromofluoromethane	0.334	0.368	-10.2	87	0.00
36	T	1,1-Dichloropropene	0.459	0.515	-12.2	85	0.00
37	T	Ethyl Acetate	0.591	0.640	-8.3	82	0.00
38	T	Carbon Tetrachloride	0.465	0.558	-20.0	93	0.00
39	T	Methylcyclohexane	0.549	0.674	-22.8	90	0.00
40	TM	Benzene	1.448	1.547	-6.8	80	0.00
41	T	Methacrylonitrile	0.319	0.356	-11.6	81	0.00
42	TM	1,2-Dichloroethane	0.521	0.624	-19.8	92	0.00
43	T	Isopropyl Acetate	0.874	1.008	-15.3	84	0.00
44	TM	Trichloroethene	0.340	0.365	-7.4	83	0.00
45	C	1,2-Dichloropropane	0.372	0.390	-4.8#	82	0.00
46	T	Dibromomethane	0.263	0.302	-14.8	87	0.00
47	T	Bromodichloromethane	0.516	0.591	-14.5	88	0.00
48	T	Methyl methacrylate	0.438	0.523	-19.4	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.010	-11.1	81	0.00
50	S	Toluene-d8	1.212	1.260	-4.0	81	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.681	-16.0	87	0.00
52	CM	Toluene	0.849	0.944	-11.2#	82	0.00
53	T	t-1,3-Dichloropropene	0.431	0.547	-26.9#	91	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.610	-21.3	89	0.00
55	T	1,1,2-Trichloroethane	0.350	0.370	-5.7	81	0.00
56	T	Ethyl methacrylate	0.532	0.624	-17.3	85	0.00
57	T	1,3-Dichloropropane	0.605	0.651	-7.6	82	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.309	-19.3	85	0.00
59	T	2-Hexanone	0.425	0.519	-22.1	90	0.00
60	T	Dibromochloromethane	0.366	0.425	-16.1	86	0.00
61	T	1,2-Dibromoethane	0.349	0.390	-11.7	85	0.00
62	S	4-Bromofluorobenzene	0.402	0.481	-19.7	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
64	T	Tetrachloroethene	0.320	0.353	-10.3	87	0.00
65	PM	Chlorobenzene	1.058	1.130	-6.8	83	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.388	-10.2	87	0.00
67	C	Ethyl Benzene	1.843	2.068	-12.2#	85	0.00
68	T	m/p-Xylenes	0.675	0.760	-12.6	84	0.00
69	T	o-Xylene	0.681	0.753	-10.6	85	0.00
70	T	Styrene	1.101	1.269	-15.3	86	0.00
71	P	Bromoform	0.266	0.306	-15.0	89	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73	T	Isopropylbenzene	3.903	4.076	-4.4	87	0.00
74	T	N-amyl acetate	1.831	2.109	-15.2	94	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.422	0.7	89	0.00
76	T	1,2,3-Trichloropropane	1.164	1.204	-3.4	93	0.00
77	T	Bromobenzene	0.921	0.914	0.8	86	0.00
78	T	n-propylbenzene	4.409	4.877	-10.6	90	0.00
79	T	2-Chlorotoluene	2.808	2.956	-5.3	91	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.383	-7.2	88	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.390	-14.7	102	0.00
82	T	4-Chlorotoluene	3.060	3.387	-10.7	93	0.00
83	T	tert-Butylbenzene	3.242	3.440	-6.1	90	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.497	-10.1	92	0.00
85	T	sec-Butylbenzene	3.884	4.330	-11.5	91	0.00
86	T	p-Isopropyltoluene	3.139	3.628	-15.6	94	0.00
87	T	1,3-Dichlorobenzene	1.643	1.755	-6.8	93	0.00
88	T	1,4-Dichlorobenzene	1.662	1.731	-4.2	91	0.00
89	T	n-Butylbenzene	2.703	3.340	-23.6	98	0.00
90	T	Hexachloroethane	0.568	0.624	-9.9	91	0.00
91	T	1,2-Dichlorobenzene	1.648	1.733	-5.2	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.323	-15.8	99	0.00
93	T	1,2,4-Trichlorobenzene	0.938	1.047	-11.6	92	0.00
94	T	Hexachlorobutadiene	0.385	0.429	-11.4	97	0.00
95	T	Naphthalene	3.605	3.876	-7.5	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.048	-5.9	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	81	0.00
2	T	Dichlorodifluoromethane	50.000	63.390	-26.8#	103	0.00
3	P	Chloromethane	50.000	52.163	-4.3	86	0.00
4	C	Vinyl Chloride	50.000	47.130	5.7#	76	0.00
5	T	Bromomethane	50.000	57.542	-15.1	95	0.00
6	T	Chloroethane	50.000	55.901	-11.8	85	0.00
7	T	Trichlorofluoromethane	50.000	54.030	-8.1	84	0.00
8	T	Diethyl Ether	50.000	44.955	10.1	74	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	60.165	-20.3	95	0.00
10	T	Methyl Iodide	50.000	56.637	-13.3	86	0.00
11	T	Tert butyl alcohol	250.000	221.277	11.5	80	0.00
12	CM	1,1-Dichloroethene	50.000	52.997	-6.0#	84	0.00
13	T	Acrolein	250.000	268.391	-7.4	87	0.00
14	T	Allyl chloride	50.000	55.879	-11.8	89	0.00
15	T	Acrylonitrile	250.000	250.432	-0.2	80	0.00
16	T	Acetone	250.000	267.080	-6.8	90	0.00
17	T	Carbon Disulfide	50.000	50.201	-0.4	80	0.00
18	T	Methyl Acetate	50.000	48.227	3.5	80	0.00
19	T	Methyl tert-butyl Ether	50.000	52.888	-5.8	84	0.00
20	T	Methylene Chloride	50.000	49.864	0.3	84	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.781	-5.6	82	0.00
22	T	Diisopropyl ether	50.000	52.066	-4.1	82	0.00
23	T	Vinyl Acetate	250.000	286.525	-14.6	87	0.00
24	P	1,1-Dichloroethane	50.000	52.589	-5.2	85	0.00
25	T	2-Butanone	250.000	268.225	-7.3	83	0.00
26	T	2,2-Dichloropropane	50.000	82.834	-65.7#	131	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.554	-3.1	82	0.00
28	T	Bromochloromethane	50.000	49.141	1.7	78	0.00
29	T	Tetrahydrofuran	250.000	250.594	-0.2	81	0.00
30	C	Chloroform	50.000	53.166	-6.3#	85	0.00
31	T	Cyclohexane	50.000	54.912	-9.8	87	0.00
32	T	1,1,1-Trichloroethane	50.000	56.559	-13.1	89	0.00
33	S	1,2-Dichloroethane-d4	50.000	55.062	-10.1	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	78	0.00
35	S	Dibromofluoromethane	50.000	54.975	-10.0	87	0.00
36	T	1,1-Dichloropropene	50.000	56.139	-12.3	85	0.00
37	T	Ethyl Acetate	50.000	54.162	-8.3	82	0.00
38	T	Carbon Tetrachloride	50.000	59.885	-19.8	93	0.00
39	T	Methylcyclohexane	50.000	61.319	-22.6	90	0.00
40	TM	Benzene	50.000	53.428	-6.9	80	0.00
41	T	Methacrylonitrile	50.000	55.689	-11.4	81	0.00
42	TM	1,2-Dichloroethane	50.000	59.882	-19.8	92	0.00
43	T	Isopropyl Acetate	50.000	57.673	-15.3	84	0.00
44	TM	Trichloroethene	50.000	53.617	-7.2	83	0.00
45	C	1,2-Dichloropropane	50.000	52.440	-4.9#	82	0.00
46	T	Dibromomethane	50.000	57.458	-14.9	87	0.00
47	T	Bromodichloromethane	50.000	57.282	-14.6	88	0.00
48	T	Methyl methacrylate	50.000	59.672	-19.3	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1056.380	-5.6	81	0.00
50	S	Toluene-d8	50.000	51.975	-4.0	81	0.00
51	T	4-Methyl-2-Pentanone	250.000	290.090	-16.0	87	0.00
52	CM	Toluene	50.000	55.590	-11.2#	82	0.00
53	T	t-1,3-Dichloropropene	50.000	63.348	-26.7#	91	0.00
54	T	cis-1,3-Dichloropropene	50.000	60.662	-21.3	89	0.00
55	T	1,1,2-Trichloroethane	50.000	52.847	-5.7	81	0.00
56	T	Ethyl methacrylate	50.000	58.682	-17.4	85	0.00
57	T	1,3-Dichloropropane	50.000	53.749	-7.5	82	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	298.307	-19.3	85	0.00
59	T	2-Hexanone	250.000	305.413	-22.2	90	0.00
60	T	Dibromochloromethane	50.000	58.159	-16.3	86	0.00
61	T	1,2-Dibromoethane	50.000	55.824	-11.6	85	0.00
62	S	4-Bromofluorobenzene	50.000	59.846	-19.7	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	80	0.00
64	T	Tetrachloroethene	50.000	55.192	-10.4	87	0.00
65	PM	Chlorobenzene	50.000	53.387	-6.8	83	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.062	-10.1	87	0.00
67	C	Ethyl Benzene	50.000	56.096	-12.2#	85	0.00
68	T	m/p-Xylenes	100.000	112.611	-12.6	84	0.00
69	T	o-Xylene	50.000	55.328	-10.7	85	0.00
70	T	Styrene	50.000	57.595	-15.2	86	0.00
71	P	Bromoform	50.000	57.503	-15.0	89	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73	T	Isopropylbenzene	50.000	52.224	-4.4	87	0.00
74	T	N-amyl acetate	50.000	57.592	-15.2	94	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.643	0.7	89	0.00
76	T	1,2,3-Trichloropropane	50.000	51.715	-3.4	93	0.00
77	T	Bromobenzene	50.000	49.647	0.7	86	0.00
78	T	n-propylbenzene	50.000	55.312	-10.6	90	0.00
79	T	2-Chlorotoluene	50.000	52.637	-5.3	91	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.605	-7.2	88	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	57.344	-14.7	102	0.00
82	T	4-Chlorotoluene	50.000	55.350	-10.7	93	0.00
83	T	tert-Butylbenzene	50.000	53.053	-6.1	90	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.071	-10.1	92	0.00
85	T	sec-Butylbenzene	50.000	55.742	-11.5	91	0.00
86	T	p-Isopropyltoluene	50.000	57.799	-15.6	94	0.00
87	T	1,3-Dichlorobenzene	50.000	53.426	-6.9	93	0.00
88	T	1,4-Dichlorobenzene	50.000	52.095	-4.2	91	0.00
89	T	n-Butylbenzene	50.000	61.782	-23.6	98	0.00
90	T	Hexachloroethane	50.000	54.992	-10.0	91	0.00
91	T	1,2-Dichlorobenzene	50.000	52.598	-5.2	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	57.847	-15.7	99	0.00
93	T	1,2,4-Trichlorobenzene	50.000	55.783	-11.6	92	0.00
94	T	Hexachlorobutadiene	50.000	55.799	-11.6	97	0.00
95	T	Naphthalene	50.000	53.764	-7.5	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.935	-5.9	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2025 21:00

Lab File ID: VX045455.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.819		30.21	50
Chloromethane	0.770	0.884	0.1	14.81	50
Vinyl Chloride	0.764	0.774		1.31	50
Bromomethane	0.300	0.362		20.67	50
Chloroethane	0.352	0.433		23.01	50
Trichlorofluoromethane	1.012	1.154		14.03	50
1,1,2-Trichlorotrifluoroethane	0.581	0.697		19.97	50
1,1-Dichloroethene	0.614	0.684		11.4	50
Acetone	0.369	0.395		7.05	50
Carbon Disulfide	1.636	1.714		4.77	50
Methyl tert-butyl Ether	2.061	2.334		13.25	50
Methyl Acetate	0.888	0.929		4.62	50
Methylene Chloride	0.731	0.785		7.39	50
trans-1,2-Dichloroethene	0.607	0.696		14.66	50
1,1-Dichloroethane	1.247	1.404	0.1	12.59	50
Cyclohexane	1.082	1.254		15.9	50
2-Butanone	0.555	0.613		10.45	50
Carbon Tetrachloride	0.465	0.566		21.72	50
cis-1,2-Dichloroethene	0.749	0.825		10.15	50
Bromochloromethane	0.594	0.654		10.1	50
Chloroform	1.239	1.426		15.09	50
1,1,1-Trichloroethane	1.000	1.219		21.9	50
Methylcyclohexane	0.549	0.662		20.58	50
Benzene	1.448	1.606		10.91	50
1,2-Dichloroethane	0.521	0.655		25.72	50
Trichloroethene	0.340	0.376		10.59	50
1,2-Dichloropropane	0.372	0.410		10.22	50
Bromodichloromethane	0.516	0.612		18.6	50
4-Methyl-2-Pentanone	0.587	0.701		19.42	50
Toluene	0.849	0.978		15.19	50
t-1,3-Dichloropropene	0.431	0.530		22.97	50
cis-1,3-Dichloropropene	0.503	0.608		20.88	50
1,1,2-Trichloroethane	0.350	0.391		11.71	50
2-Hexanone	0.425	0.525		23.53	50
Dibromochloromethane	0.366	0.438		19.67	50
1,2-Dibromoethane	0.349	0.404		15.76	50
Tetrachloroethene	0.320	0.359		12.19	50
Chlorobenzene	1.058	1.173	0.3	10.87	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/25/2025 21:00

Lab File ID: VX045455.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	2.140		16.11	50
m/p-Xylenes	0.675	0.775		14.81	50
o-Xylene	0.681	0.774		13.66	50
Styrene	1.101	1.315		19.44	50
Bromoform	0.266	0.310	0.1	16.54	50
Isopropylbenzene	3.903	4.278		9.61	50
1,1,2,2-Tetrachloroethane	1.432	1.479	0.3	3.28	50
1,3-Dichlorobenzene	1.643	1.781		8.4	50
1,4-Dichlorobenzene	1.662	1.787		7.52	50
1,2-Dichlorobenzene	1.648	1.805		9.53	50
1,2-Dibromo-3-Chloropropane	0.279	0.328		17.56	50
1,2,4-Trichlorobenzene	0.938	1.039		10.77	50
1,2,3-Trichlorobenzene	0.990	1.055		6.57	50
1,2-Dichloroethane-d4	0.795	0.954		20	50
Dibromofluoromethane	0.334	0.375		12.27	50
Toluene-d8	1.212	1.279		5.53	50
4-Bromofluorobenzene	0.402	0.501		24.63	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	74211	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	134524	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	120753	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57976	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	70804	59.981 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.960%		
35) Dibromofluoromethane	5.379	113	50433	56.066 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.140%		
50) Toluene-d8	8.647	98	172074	52.766 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.540%		
62) 4-Bromofluorobenzene	11.079	95	67367	62.340 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 124.680%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	60758	65.042 ug/l	94
3) Chloromethane	1.307	50	65638	57.417 ug/l	99
4) Vinyl Chloride	1.374	62	57448	50.657 ug/l	95
5) Bromomethane	1.593	94	26828	60.177 ug/l	96
6) Chloroethane	1.666	64	32149	61.459 ug/l	96
7) Trichlorofluoromethane	1.874	101	85653	57.053 ug/l	96
8) Diethyl Ether	2.130	74	28231	48.076 ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	51717	59.961 ug/l	97
10) Methyl Iodide	2.441	142	66828	61.999 ug/l	94
11) Tert butyl alcohol	2.977	59	49333	220.637 ug/l	97
12) 1,1-Dichloroethene	2.306	96	50738	55.640 ug/l	95
13) Acrolein	2.233	56	71073	274.979 ug/l	99
14) Allyl chloride	2.654	41	95094	58.584 ug/l	93
15) Acrylonitrile	3.062	53	159315	265.855 ug/l	99
16) Acetone	2.380	43	146553	267.586 ug/l	95
17) Carbon Disulfide	2.502	76	127223	52.381 ug/l	98
18) Methyl Acetate	2.703	43	68937	52.322 ug/l	98
19) Methyl tert-butyl Ether	3.111	73	173226	56.621 ug/l	97
20) Methylene Chloride	2.782	84	58289	53.728 ug/l	95
21) trans-1,2-Dichloroethene	3.081	96	51655	57.338 ug/l	96
22) Diisopropyl ether	3.757	45	187925	56.926 ug/l #	86
23) Vinyl Acetate	3.715	43	846535	307.283 ug/l	99
24) 1,1-Dichloroethane	3.599	63	104188	56.314 ug/l	99
25) 2-Butanone	4.556	43	227375	275.806 ug/l	98
26) 2,2-Dichloropropane	4.465	77	64832	74.708 ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	61259	55.084 ug/l	92
28) Bromochloromethane	4.891	49	48535	55.038 ug/l	98
29) Tetrahydrofuran	5.001	42	145386	262.606 ug/l	99
30) Chloroform	5.086	83	105858	57.585 ug/l	100
31) Cyclohexane	5.458	56	93071	57.952 ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	90456	60.925 ug/l	98
36) 1,1-Dichloropropene	5.684	75	71380	57.863 ug/l	99
37) Ethyl Acetate	4.715	43	88123	55.438 ug/l	99
38) Carbon Tetrachloride	5.672	117	76081	60.748 ug/l	95
39) Methylcyclohexane	7.373	83	89014	60.220 ug/l	94
40) Benzene	6.031	78	215997	55.448 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	49660	57.777	ug/l		97
42) 1,2-Dichloroethane	6.080	62	88076	62.788	ug/l		96
43) Isopropyl Acetate	6.336	43	137894	58.665	ug/l		99
44) Trichloroethene	7.123	130	50548	55.263	ug/l		97
45) 1,2-Dichloropropane	7.428	63	55191	55.105	ug/l		98
46) Dibromomethane	7.574	93	41994	59.321	ug/l		96
47) Bromodichloromethane	7.818	83	82371	59.321	ug/l		98
48) Methyl methacrylate	7.690	41	72446	61.434	ug/l		93
49) 1,4-Dioxane	7.659	88	25038	1006.555	ug/l		94
51) 4-Methyl-2-Pentanone	8.574	43	471412	298.691	ug/l		99
52) Toluene	8.714	92	131498	57.535	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	71263	61.389	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	81798	60.428	ug/l	#	87
55) 1,1,2-Trichloroethane	9.147	97	52613	55.917	ug/l		98
56) Ethyl methacrylate	9.116	69	88478	61.863	ug/l		93
57) 1,3-Dichloropropane	9.305	76	93052	57.147	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	223602	320.494	ug/l		98
59) 2-Hexanone	9.427	43	352820	308.540	ug/l		97
60) Dibromochloromethane	9.519	129	58941	59.912	ug/l		99
61) 1,2-Dibromoethane	9.604	107	54283	57.791	ug/l		98
64) Tetrachloroethene	9.269	164	43318	56.012	ug/l		99
65) Chlorobenzene	10.073	112	141675	55.448	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	48145	56.581	ug/l		98
67) Ethyl Benzene	10.189	91	258353	58.029	ug/l		99
68) m/p-Xylenes	10.299	106	187271	114.904	ug/l		94
69) o-Xylene	10.640	106	93451	56.852	ug/l		96
70) Styrene	10.653	104	158826	59.715	ug/l		97
71) Bromoform	10.799	173	37385	58.263	ug/l	#	99
73) Isopropylbenzene	10.957	105	248021	54.809	ug/l		99
74) N-amyl acetate	10.842	43	127825	60.199	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.207	83	85723	51.622	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	72660m	53.846	ug/l		
77) Bromobenzene	11.195	156	57349	53.713	ug/l		96
78) n-propylbenzene	11.299	91	291813	57.086	ug/l		98
79) 2-Chlorotoluene	11.360	91	180078	55.315	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	208176	56.895	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	20652	52.375	ug/l		85
82) 4-Chlorotoluene	11.451	91	206254	58.131	ug/l		98
83) tert-Butylbenzene	11.713	119	206906	55.036	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	211760	57.518	ug/l		99
85) sec-Butylbenzene	11.890	105	260527	57.851	ug/l		98
86) p-Isopropyltoluene	12.006	119	214411	58.914	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	103254	54.210	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	103629	53.778	ug/l		99
89) n-Butylbenzene	12.329	91	190918	60.909	ug/l		99
90) Hexachloroethane	12.536	117	36102	54.843	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	104665	54.779	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19044	58.867	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	60255	55.384	ug/l		100
94) Hexachlorobutadiene	13.725	225	25302	56.726	ug/l		98
95) Naphthalene	13.774	128	226227	54.121	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	61143	53.273	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

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

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

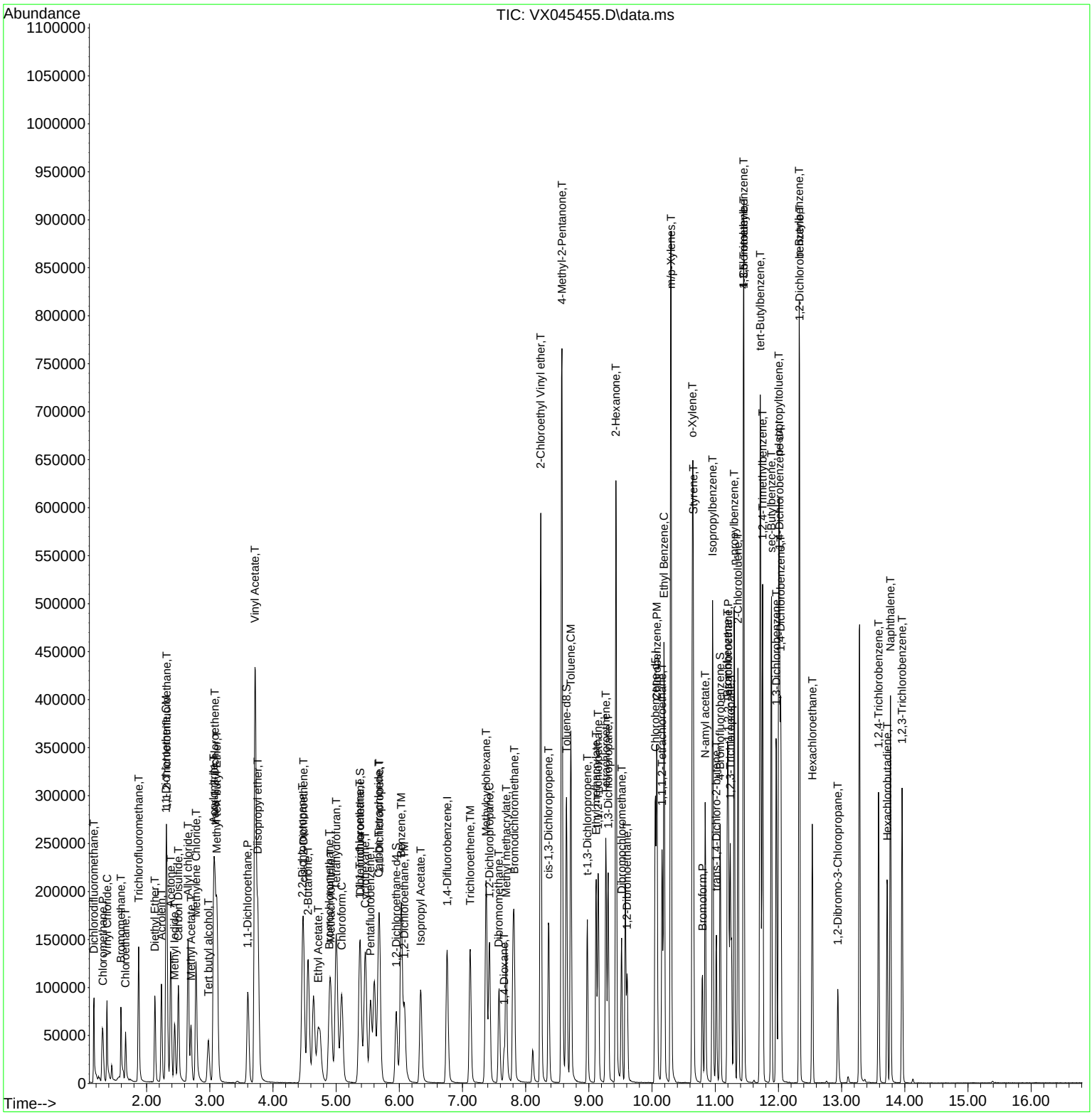
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

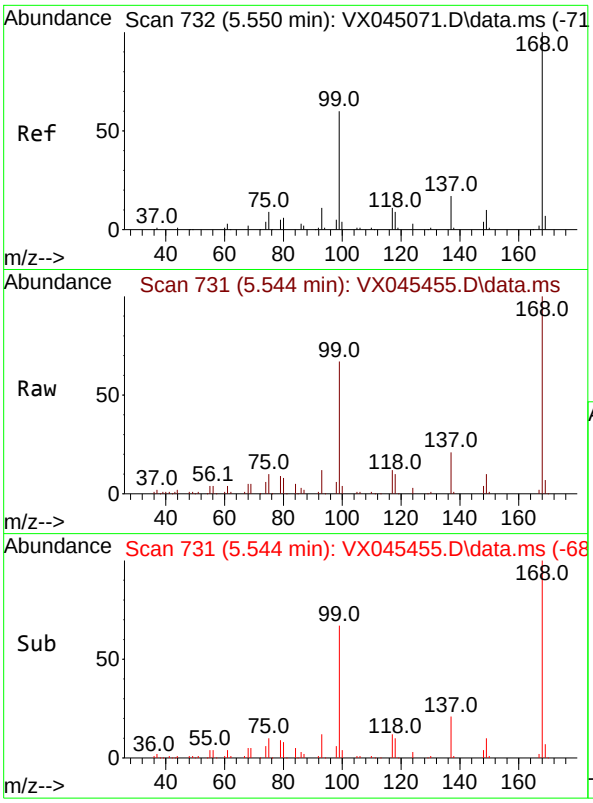
Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

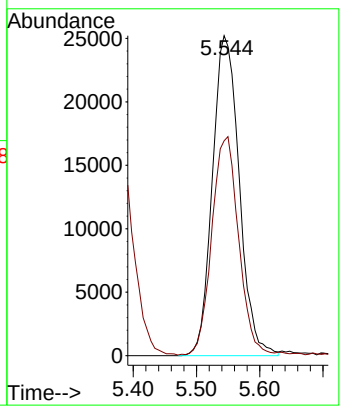




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:168 Resp: 7421

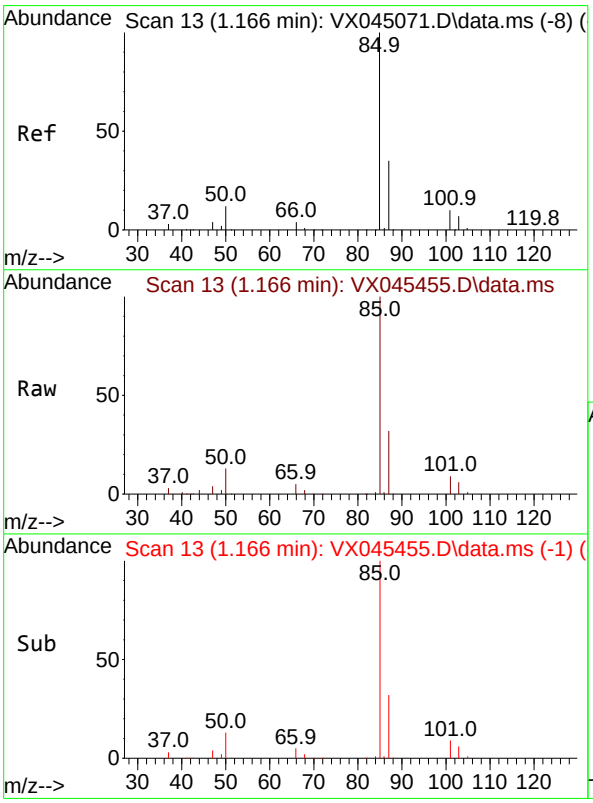
Ion	Ratio	Lower	Upper
168	100		
99	66.9	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

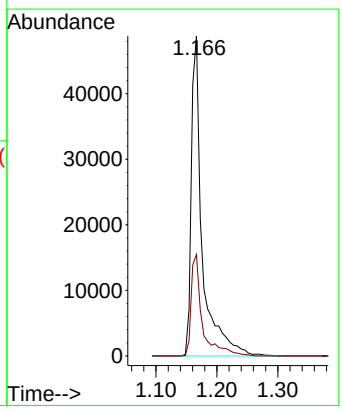
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

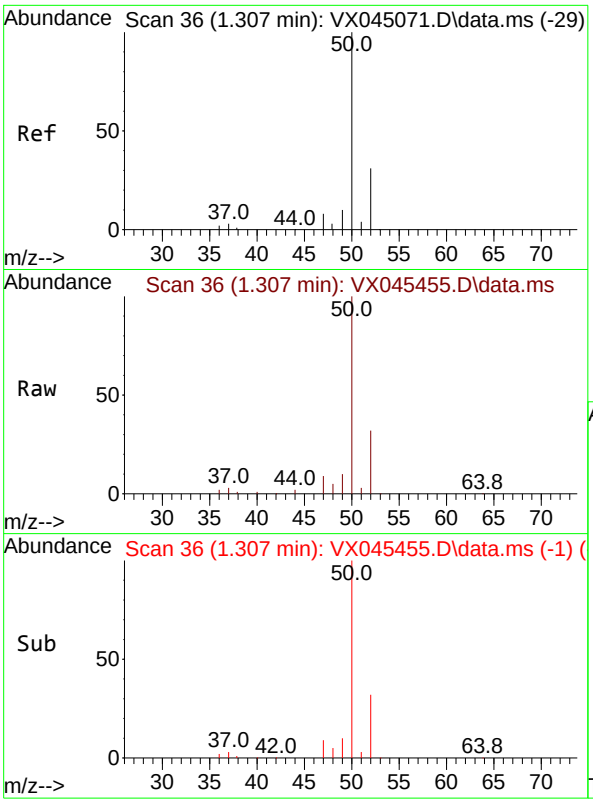


#2
Dichlorodifluoromethane
Concen: 65.042 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 85 Resp: 60758

Ion	Ratio	Lower	Upper
85	100		
87	31.7	17.4	52.3

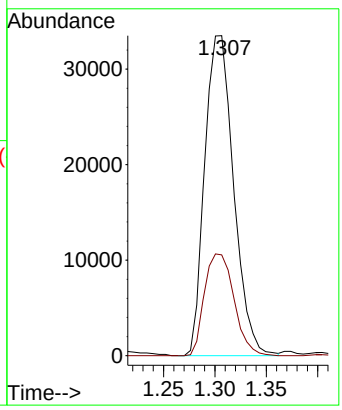




#3
Chloromethane
Concen: 57.417 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 50 Resp: 6563

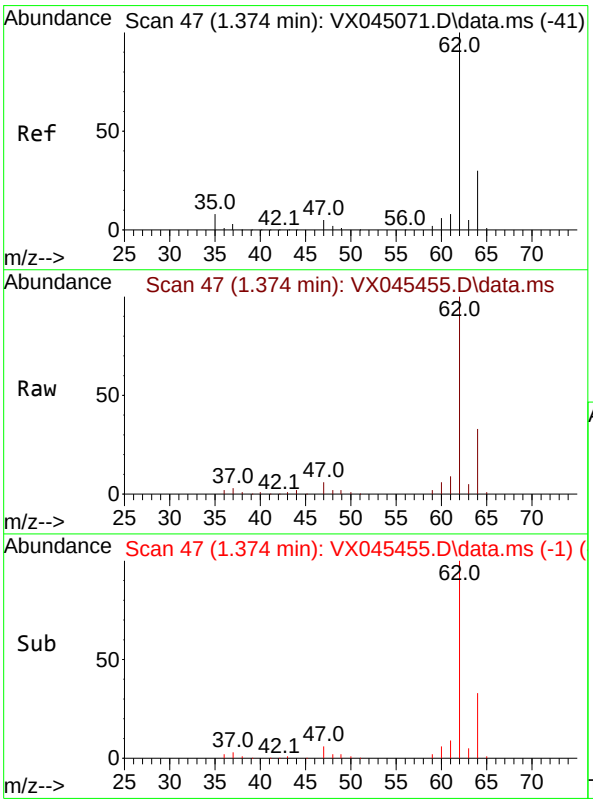
Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

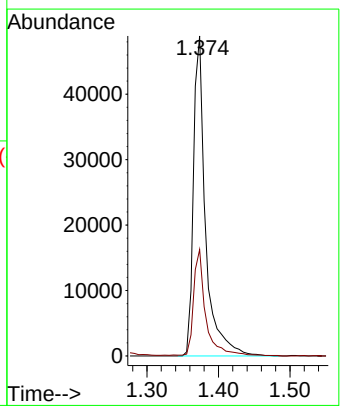
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

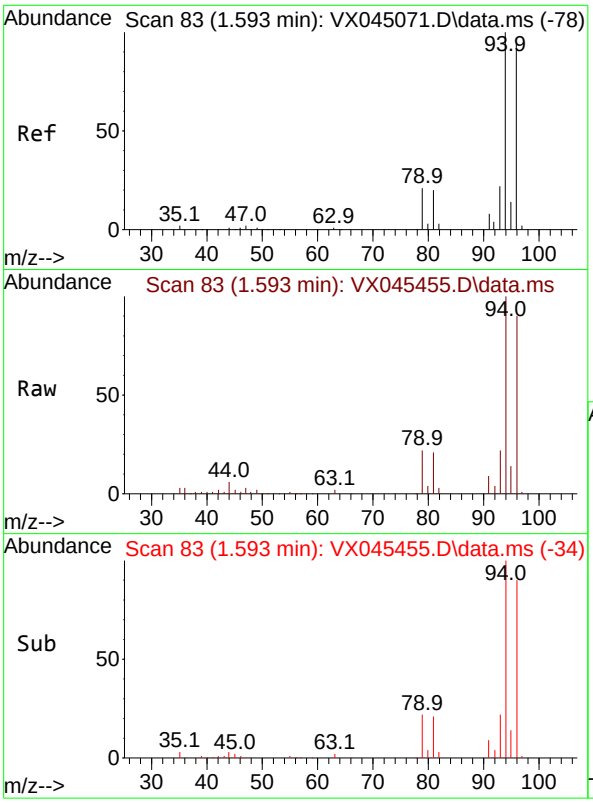


#4
Vinyl Chloride
Concen: 50.657 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 62 Resp: 57448

Ion	Ratio	Lower	Upper
62	100		
64	33.1	24.3	36.5

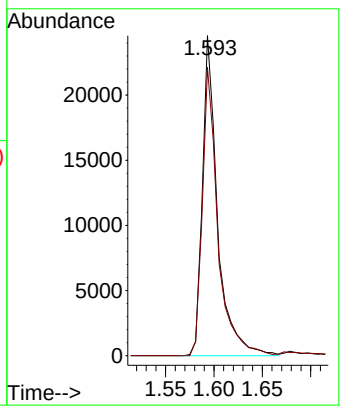




#5
Bromomethane
Concen: 60.177 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 94 Resp: 2682

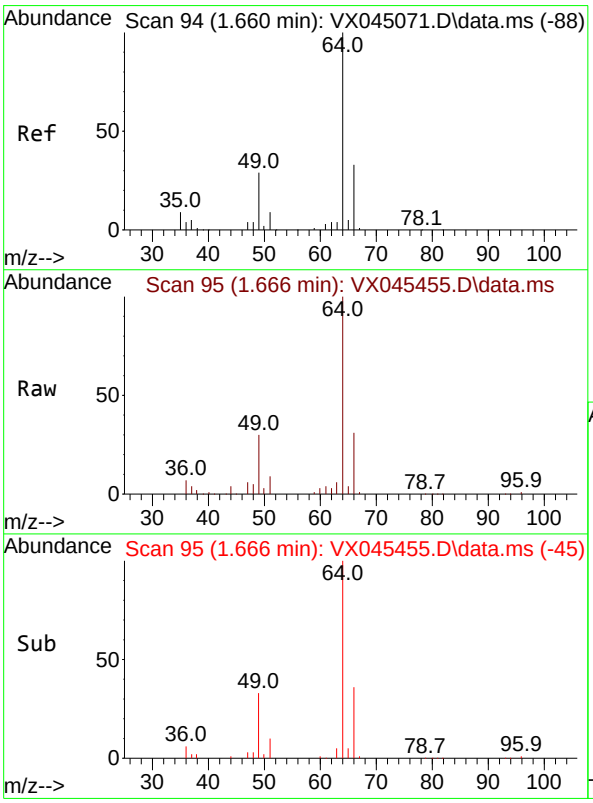
Ion	Ratio	Lower	Upper
94	100		
96	90.0	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

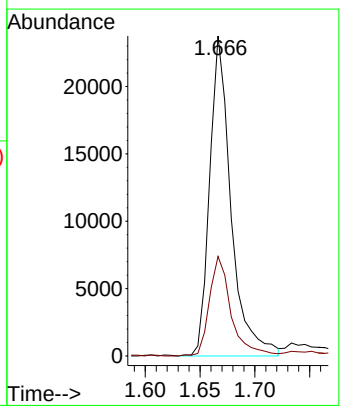
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

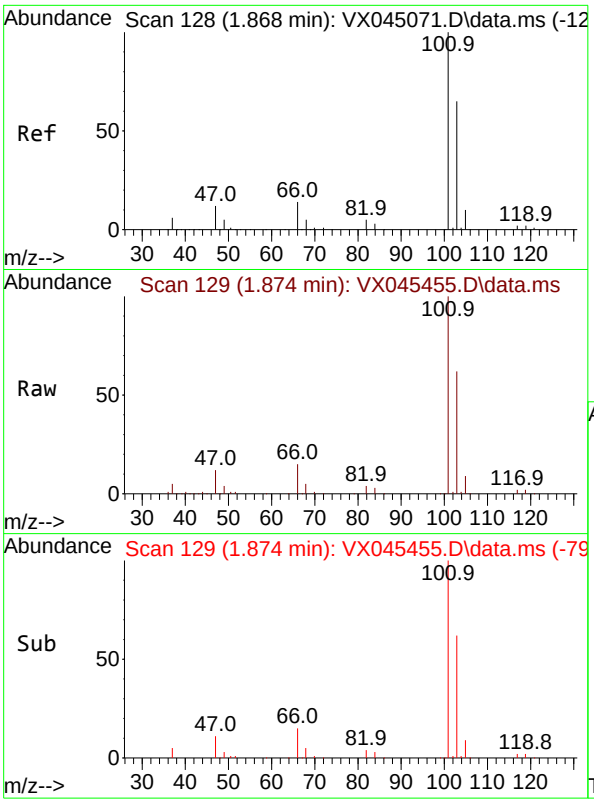


#6
Chloroethane
Concen: 61.459 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 64 Resp: 32149

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.7	40.1

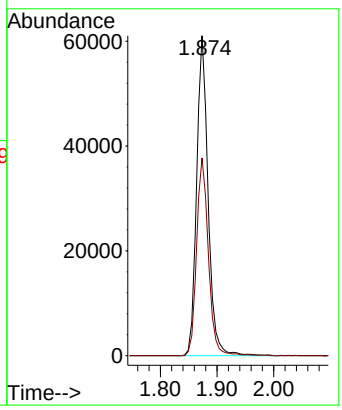




#7
Trichlorofluoromethane
Concen: 57.053 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:101 Resp: 8565

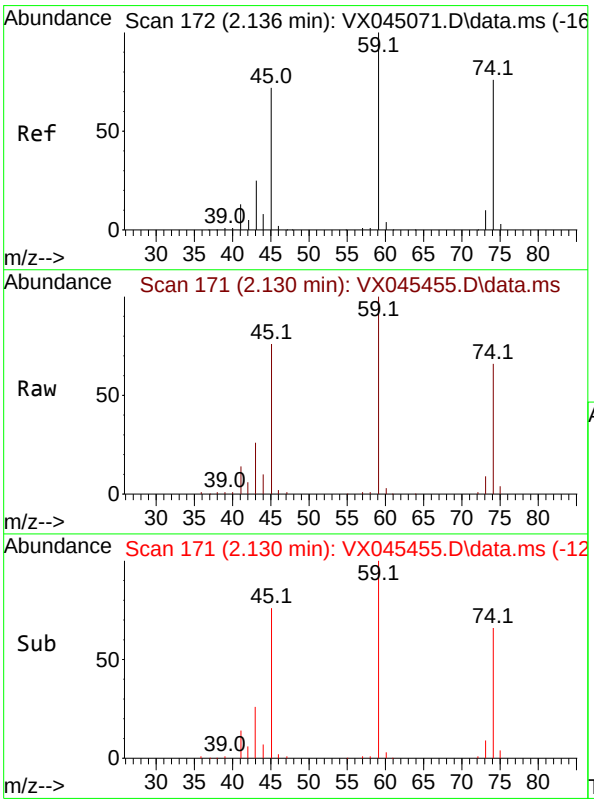
Ion	Ratio	Lower	Upper
101	100		
103	61.8	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

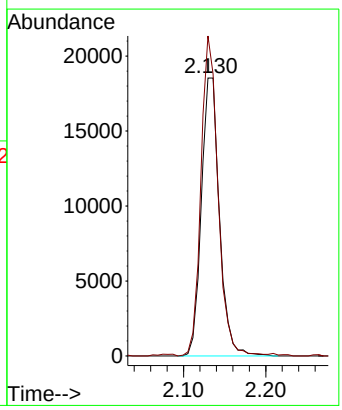
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

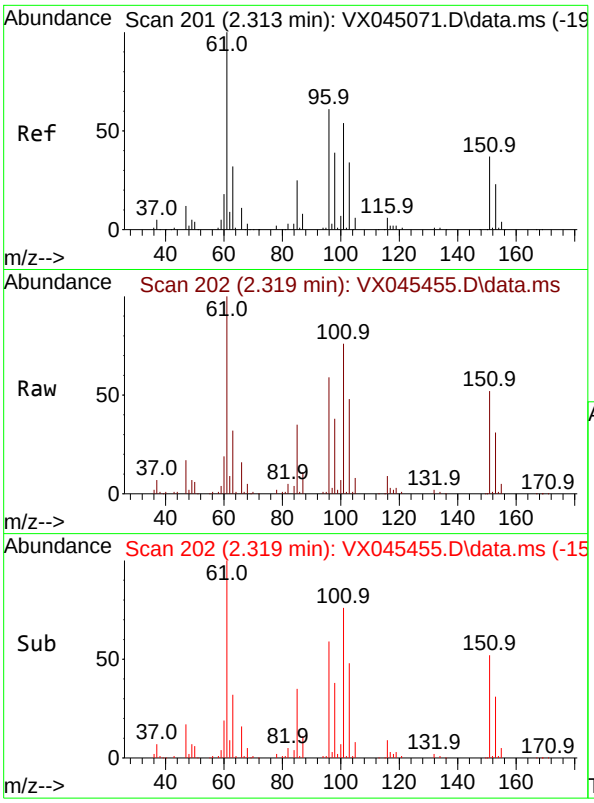


#8
Diethyl Ether
Concen: 48.076 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 74 Resp: 28231

Ion	Ratio	Lower	Upper
74	100		
45	109.1	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 59.961 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

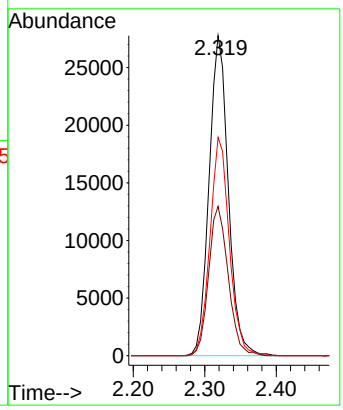
Tgt Ion:101 Resp: 5171

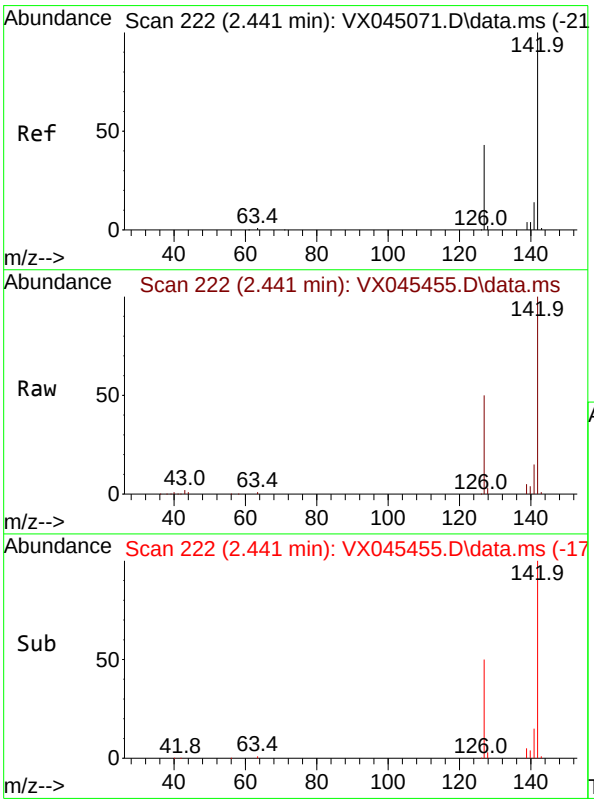
Ion	Ratio	Lower	Upper
101	100		
85	47.6	36.2	54.4
151	68.8	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

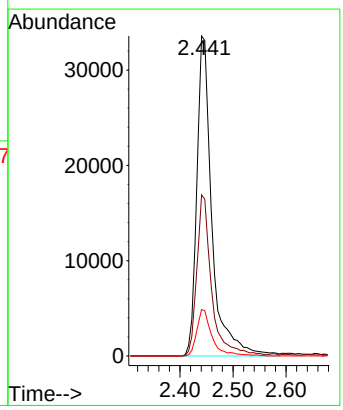


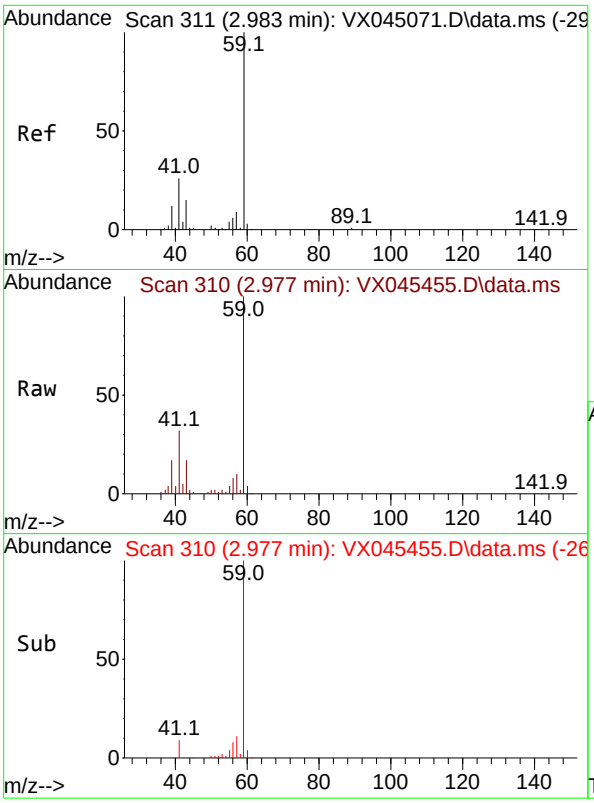


#10
Methyl Iodide
Concen: 61.999 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:142 Resp: 66828

Ion	Ratio	Lower	Upper
142	100		
127	49.2	35.4	53.2
141	14.6	11.6	17.4

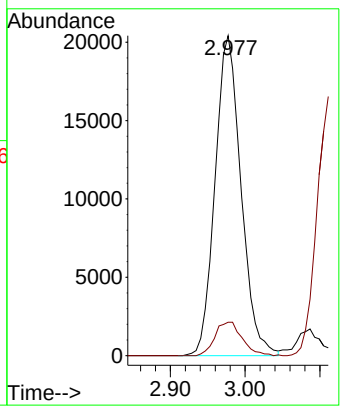




#11
Tert butyl alcohol
Concen: 220.637 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 59 Resp: 4933

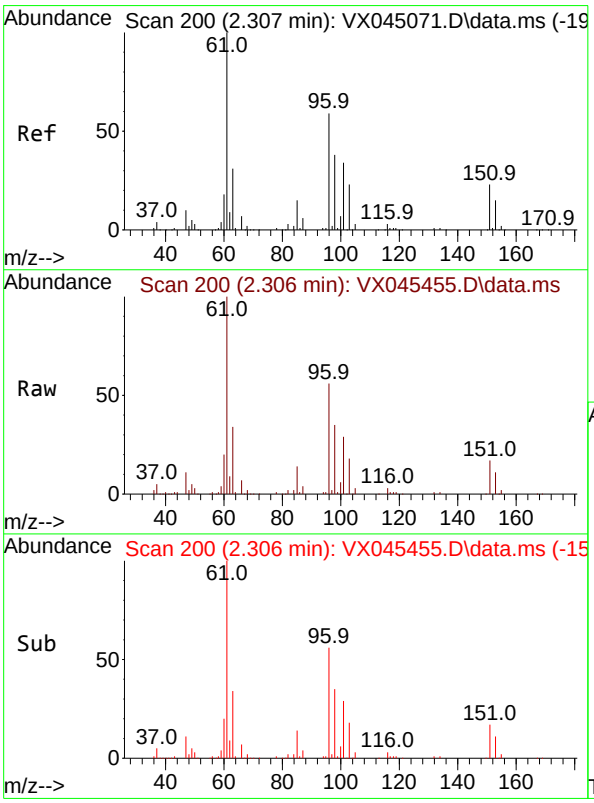
Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

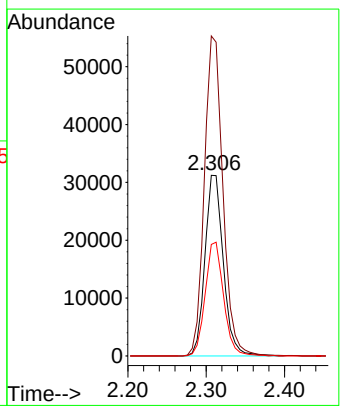
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

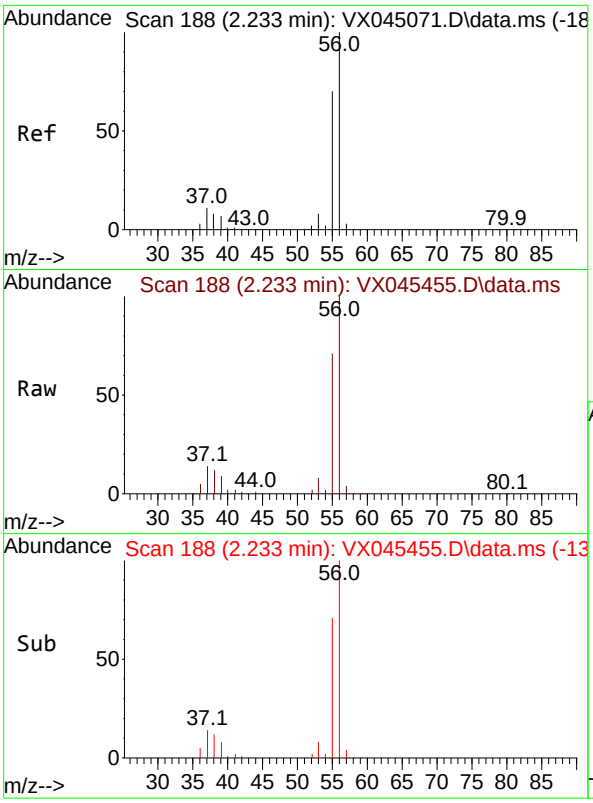


#12
1,1-Dichloroethene
Concen: 55.640 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 96 Resp: 50738

Ion	Ratio	Lower	Upper
96	100		
61	177.1	134.6	202.0
98	61.7	51.0	76.6

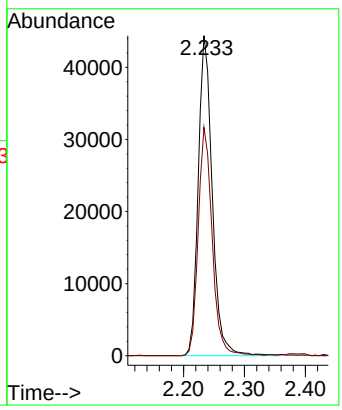




#13
Acrolein
Concen: 274.979 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 56 Resp: 7107

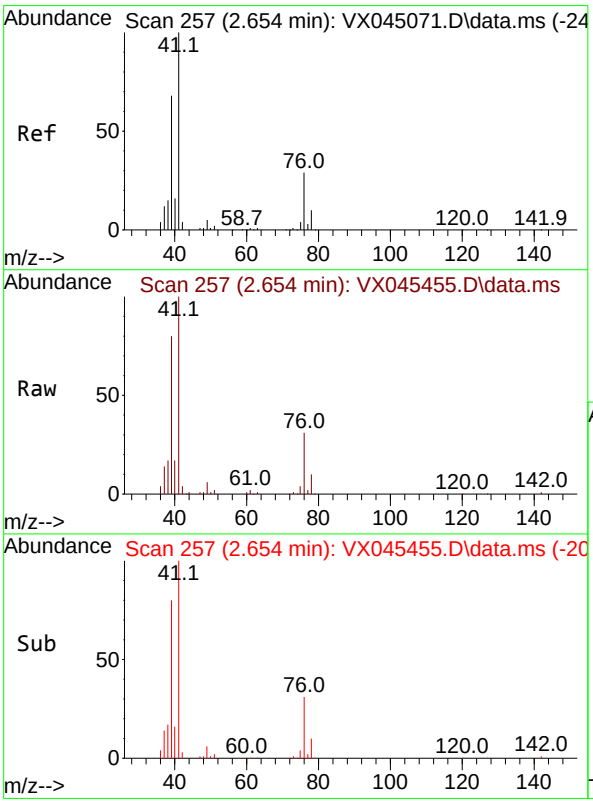
Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

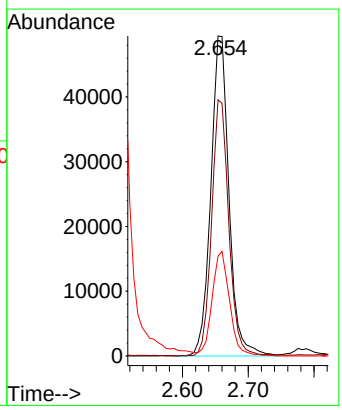
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

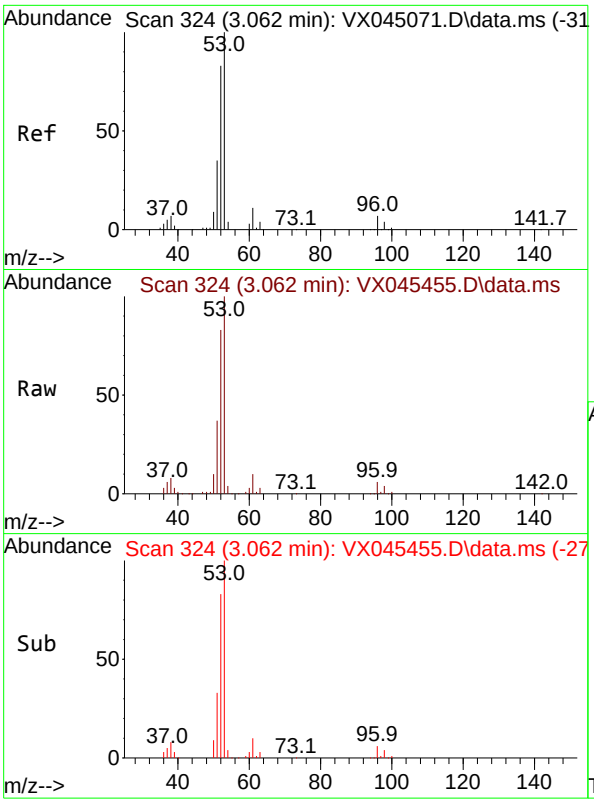


#14
Allyl chloride
Concen: 58.584 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 41 Resp: 95094

Ion	Ratio	Lower	Upper
41	100		
39	75.6	53.8	80.8
76	31.5	25.2	37.8

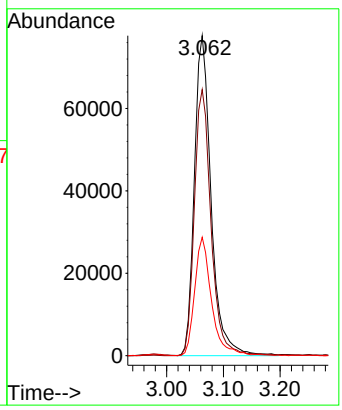




#15
Acrylonitrile
Concen: 265.855 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 53 Resp: 15931

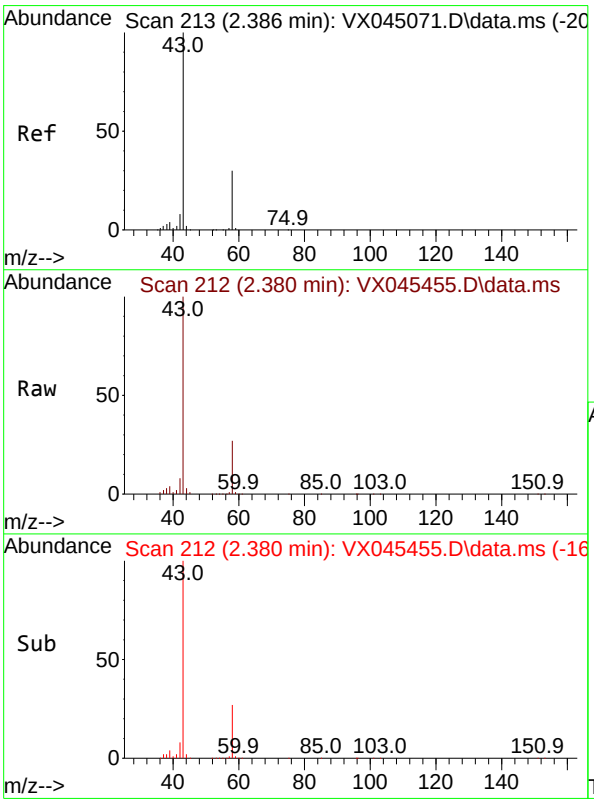
Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.2	99.2
51	37.0	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

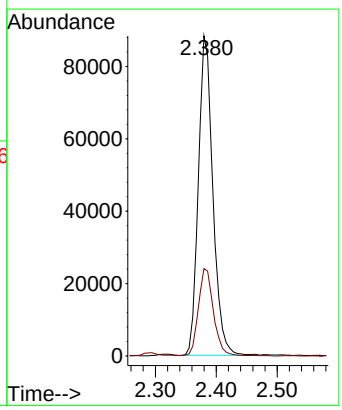
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

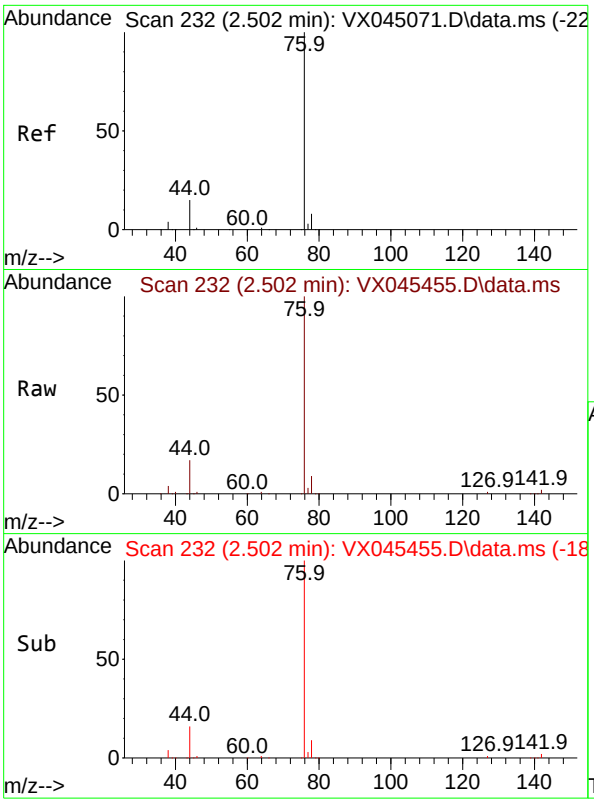


#16
Acetone
Concen: 267.586 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 146553

Ion	Ratio	Lower	Upper
43	100		
58	27.3	24.2	36.4





#17
Carbon Disulfide
Concen: 52.381 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

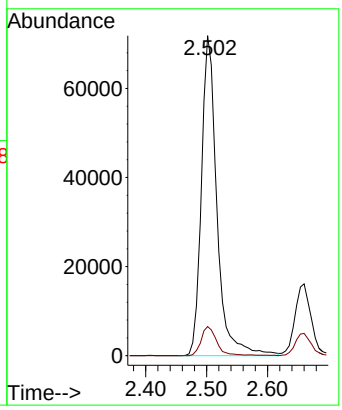
Tgt Ion: 76 Resp: 12722

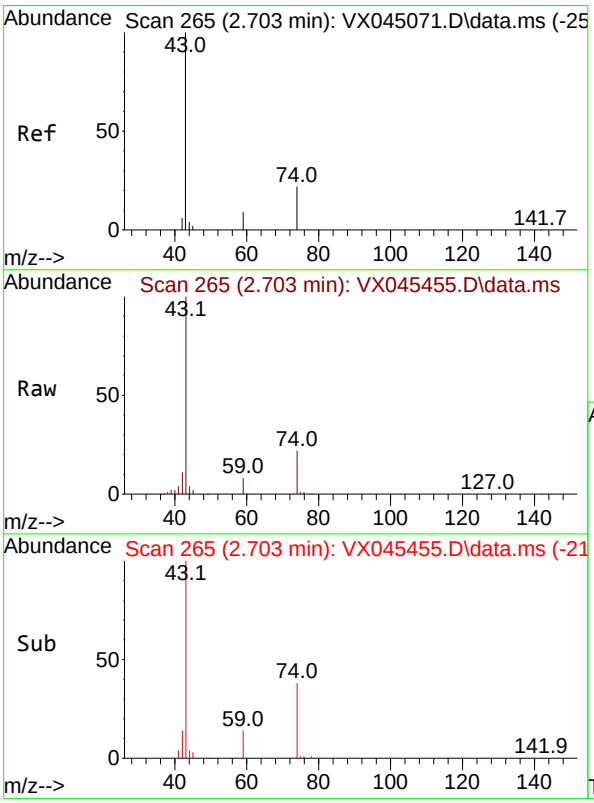
Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

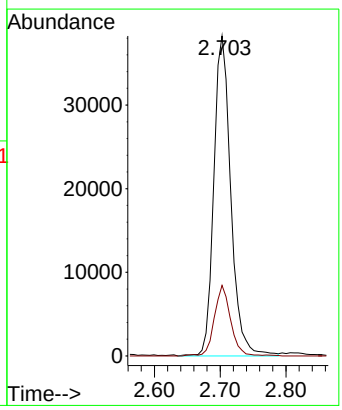


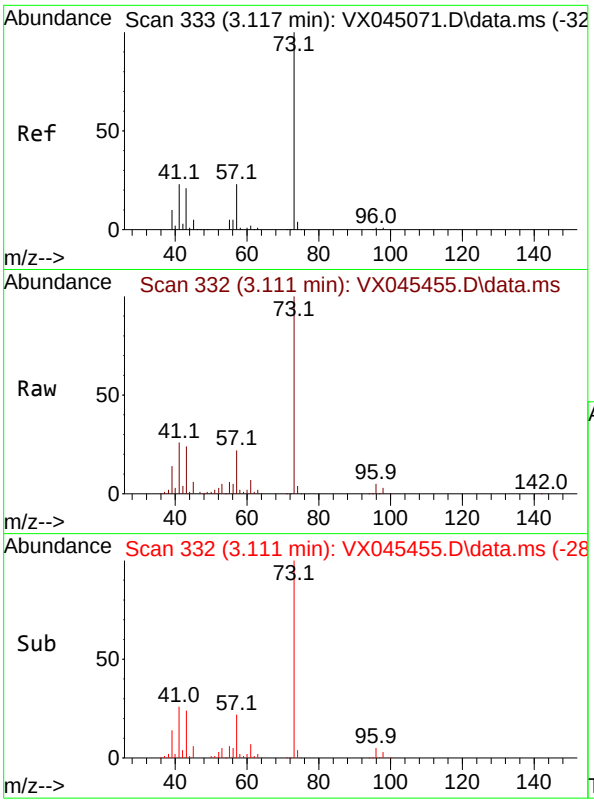


#18
Methyl Acetate
Concen: 52.322 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 68937

Ion	Ratio	Lower	Upper
43	100		
74	21.1	17.4	26.2

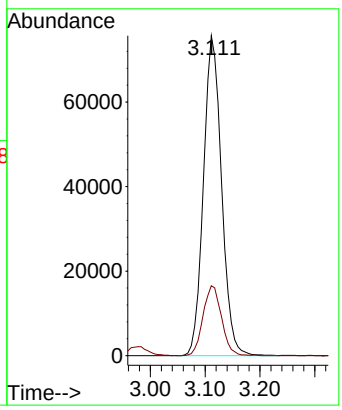




#19
Methyl tert-butyl Ether
Concen: 56.621 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 73 Resp: 17322

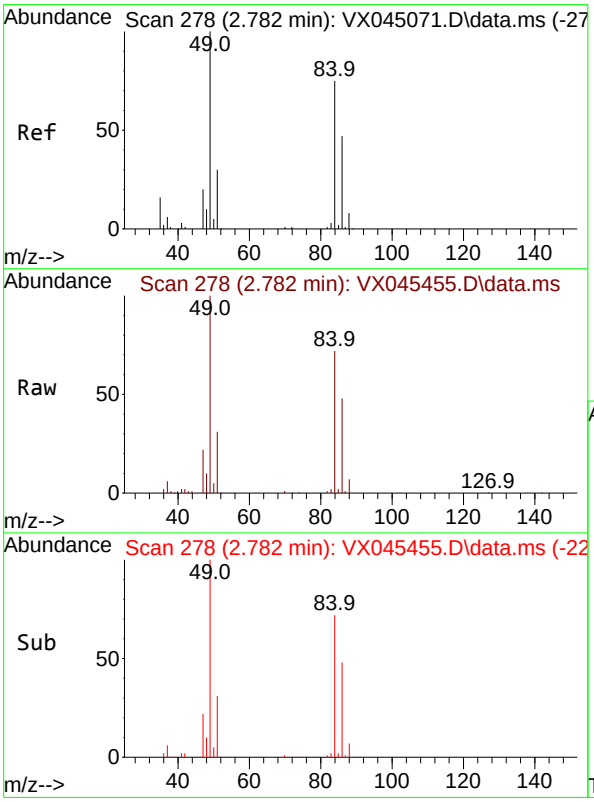
Ion	Ratio	Lower	Upper
73	100		
57	21.8	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

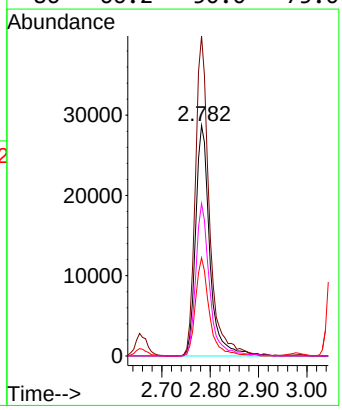
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

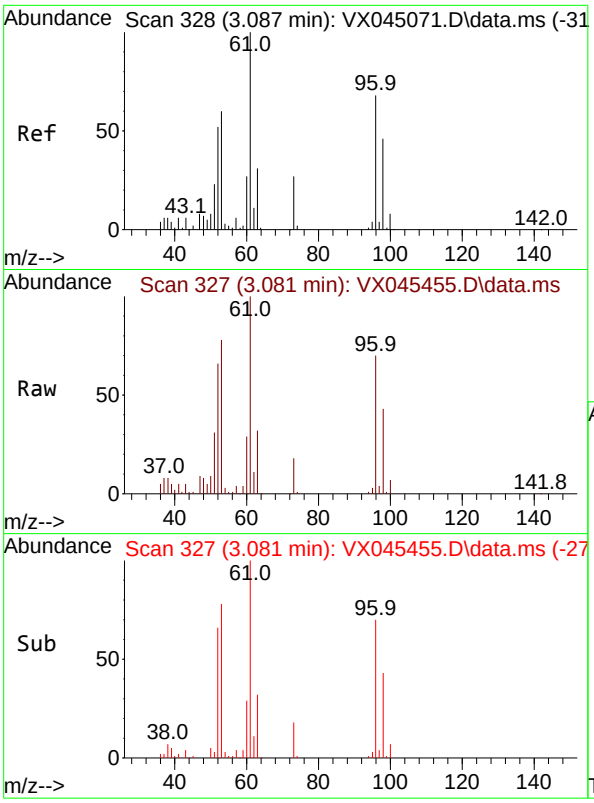


#20
Methylene Chloride
Concen: 53.728 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 84 Resp: 58289

Ion	Ratio	Lower	Upper
84	100		
49	138.8	106.5	159.7
51	42.5	32.1	48.1
86	66.2	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 57.338 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

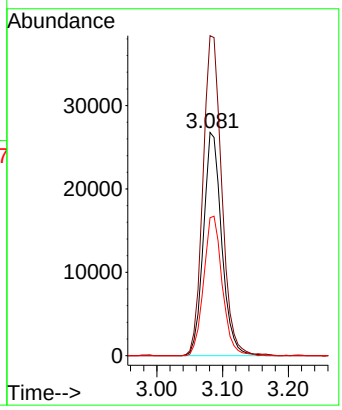
Tgt Ion: 96 Resp: 5165

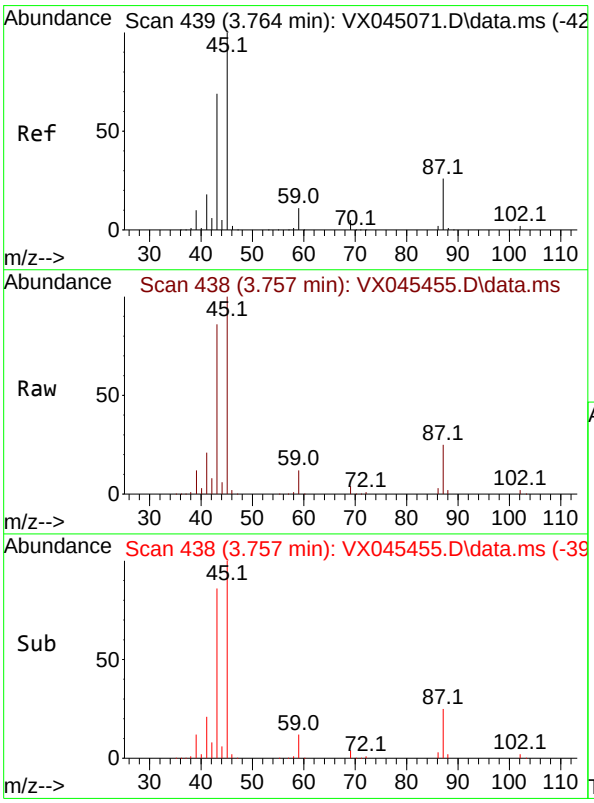
Ion	Ratio	Lower	Upper
96	100		
61	143.4	117.0	175.4
98	61.8	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

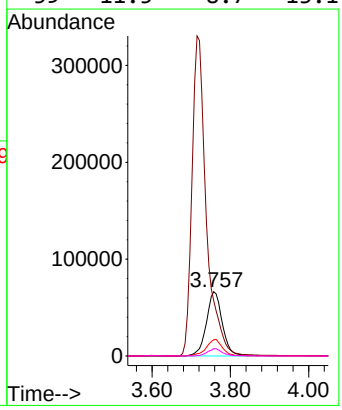


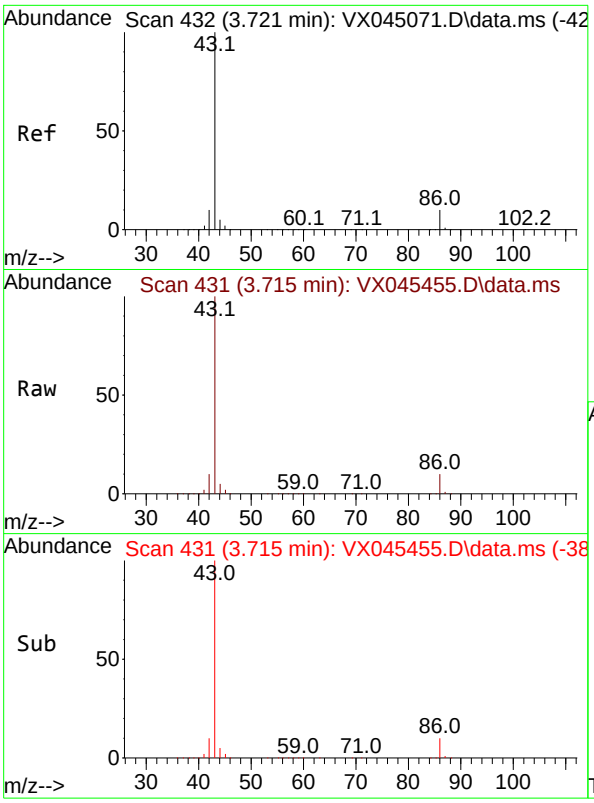


#22
Diisopropyl ether
Concen: 56.926 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 45 Resp: 187925

Ion	Ratio	Lower	Upper
45	100		
43	85.8	54.9	82.3#
87	25.2	21.0	31.4
59	11.5	8.7	13.1

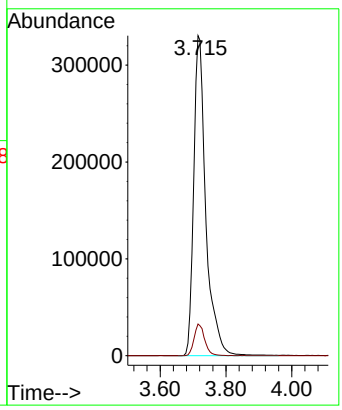




#23
Vinyl Acetate
Concen: 307.283 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 84653

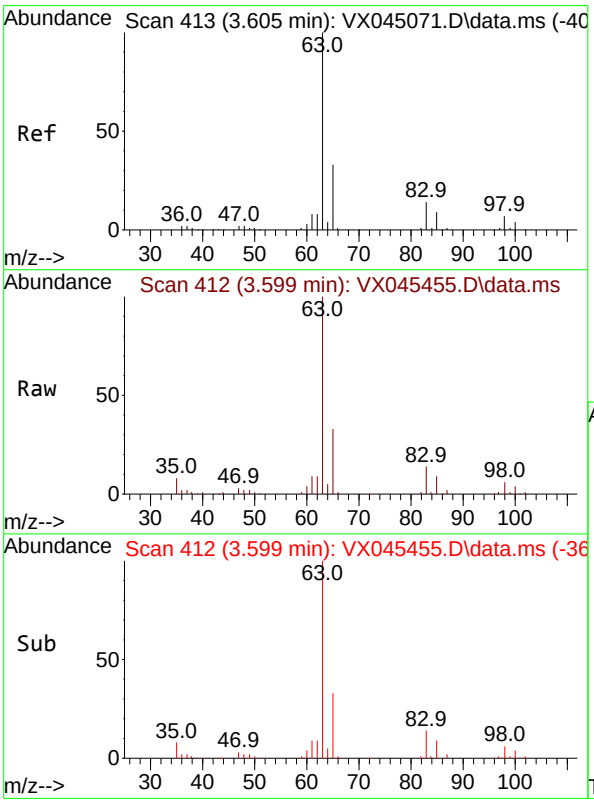
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

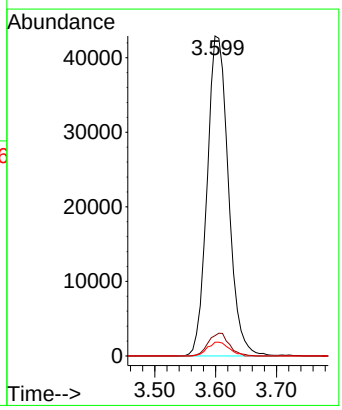
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

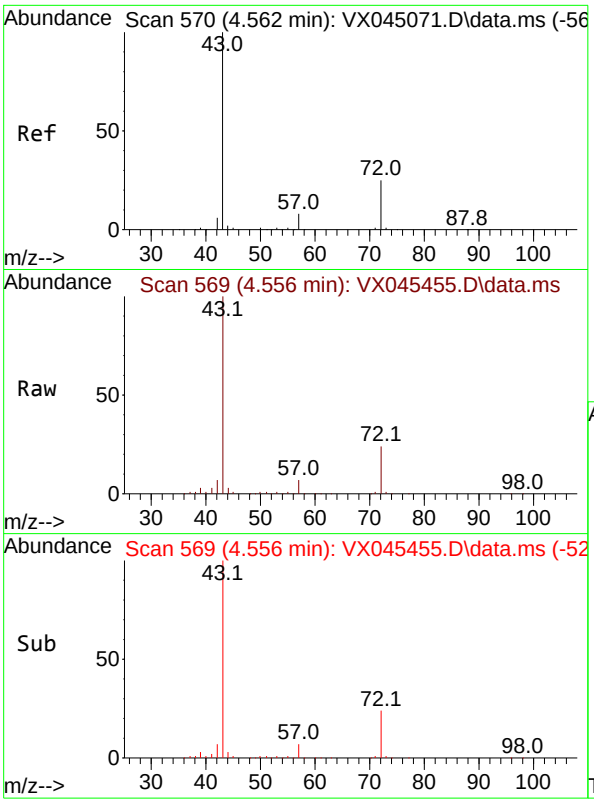


#24
1,1-Dichloroethane
Concen: 56.314 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 63 Resp: 104188

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.4	10.2
100	4.3	2.1	6.5





#25
2-Butanone
Concen: 275.806 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

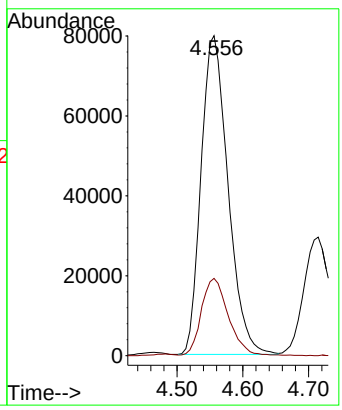
Tgt Ion: 43 Resp: 22737

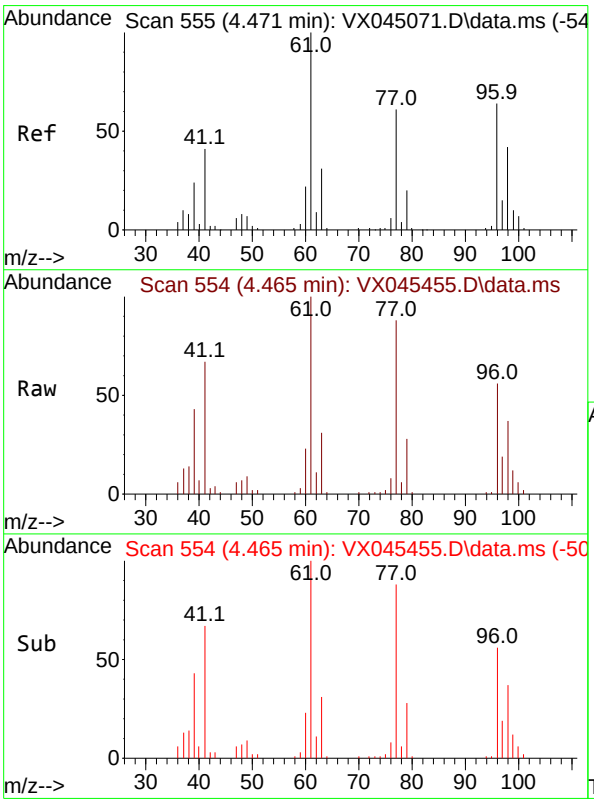
Ion	Ratio	Lower	Upper
43	100		
72	24.0	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

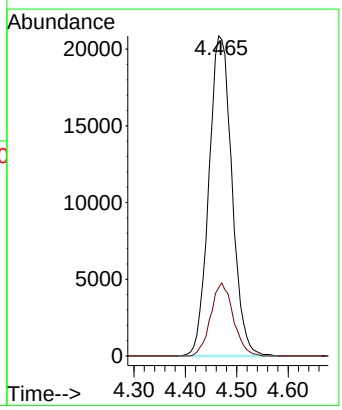


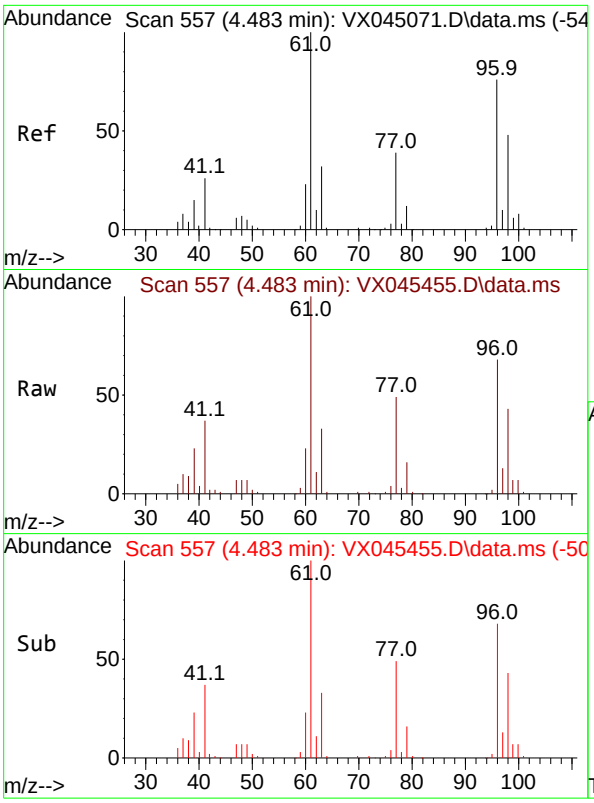


#26
2,2-Dichloropropane
Concen: 74.708 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 77 Resp: 64832

Ion	Ratio	Lower	Upper
77	100		
97	22.4	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 55.084 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

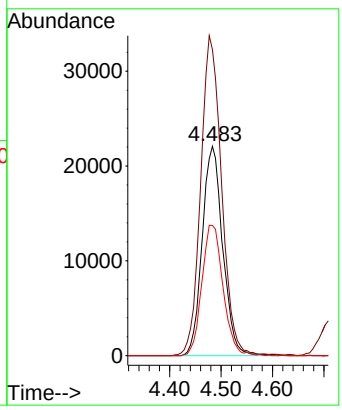
Tgt Ion: 96 Resp: 6125

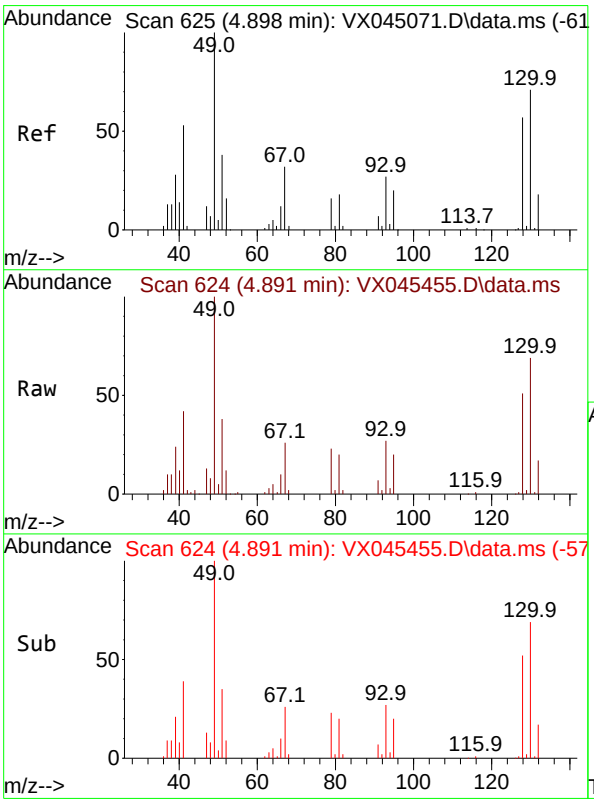
Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	283.2
98	64.3	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

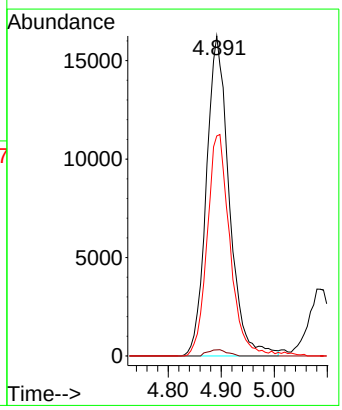


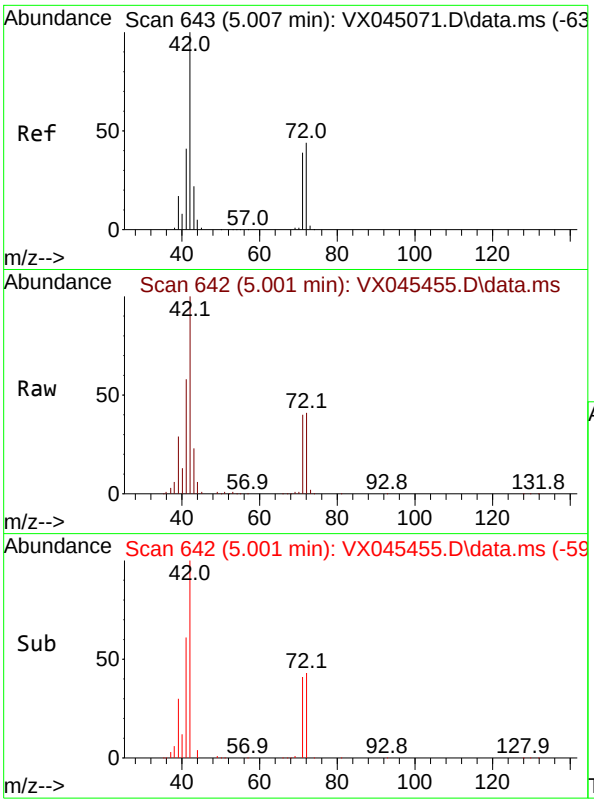


#28
Bromochloromethane
Concen: 55.038 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 49 Resp: 48535

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	68.6	56.1	84.1





#29
Tetrahydrofuran
Concen: 262.606 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

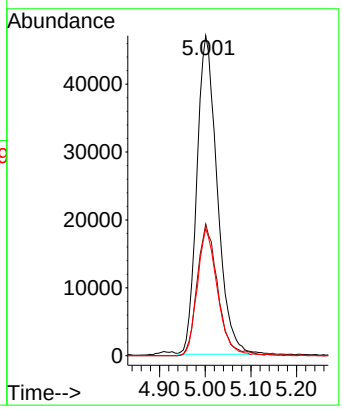
Tgt Ion: 42 Resp: 14538

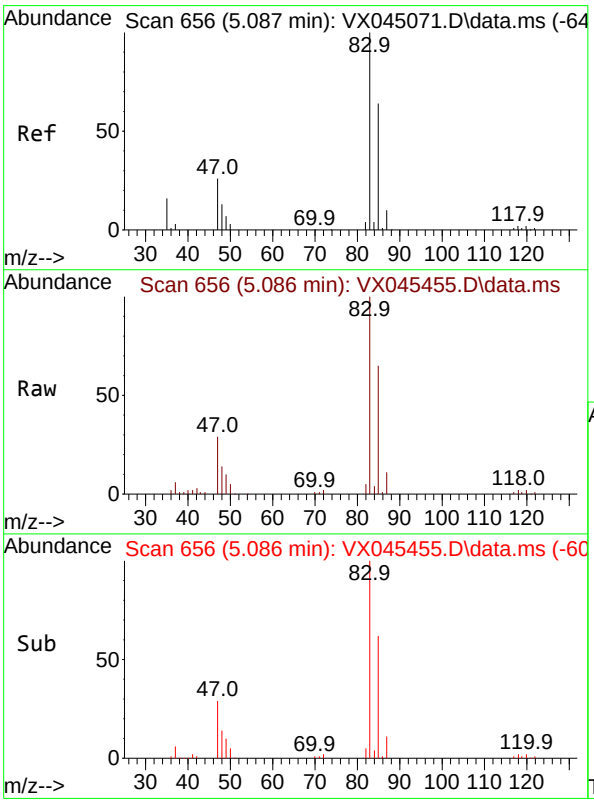
Ion	Ratio	Lower	Upper
42	100		
72	41.6	34.1	51.1
71	39.3	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

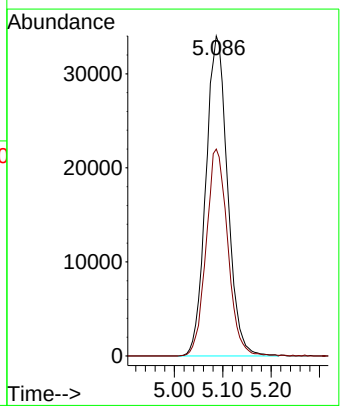


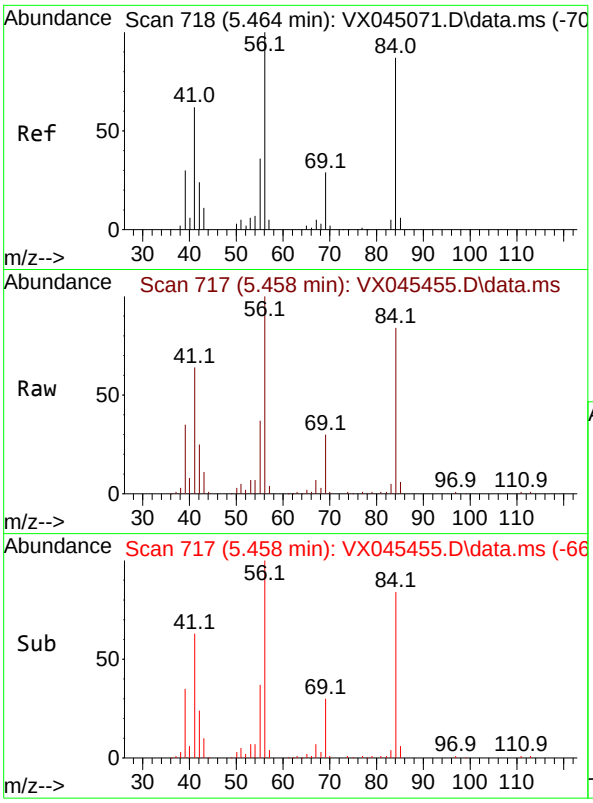


#30
Chloroform
Concen: 57.585 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 83 Resp: 105858

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.4	77.2

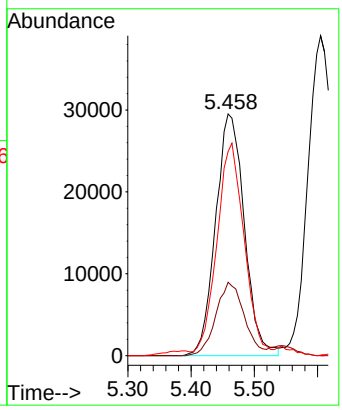




#31
Cyclohexane
Concen: 57.952 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 56 Resp: 9307

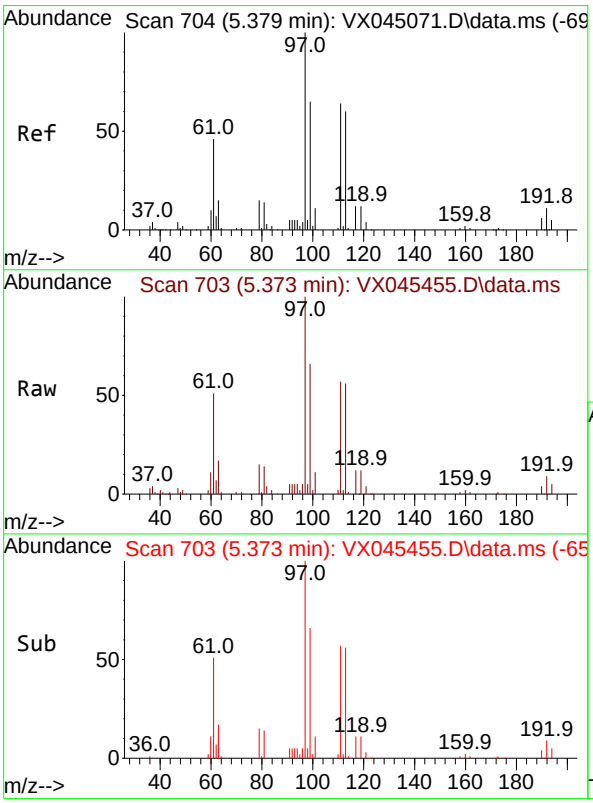
Ion	Ratio	Lower	Upper
56	100		
69	30.4	23.4	35.2
84	82.7	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

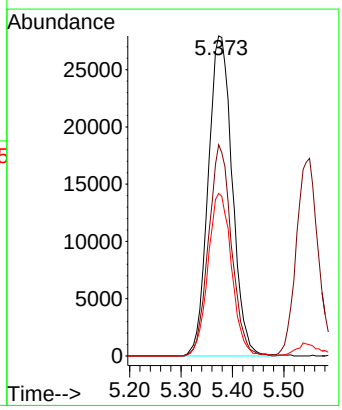
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

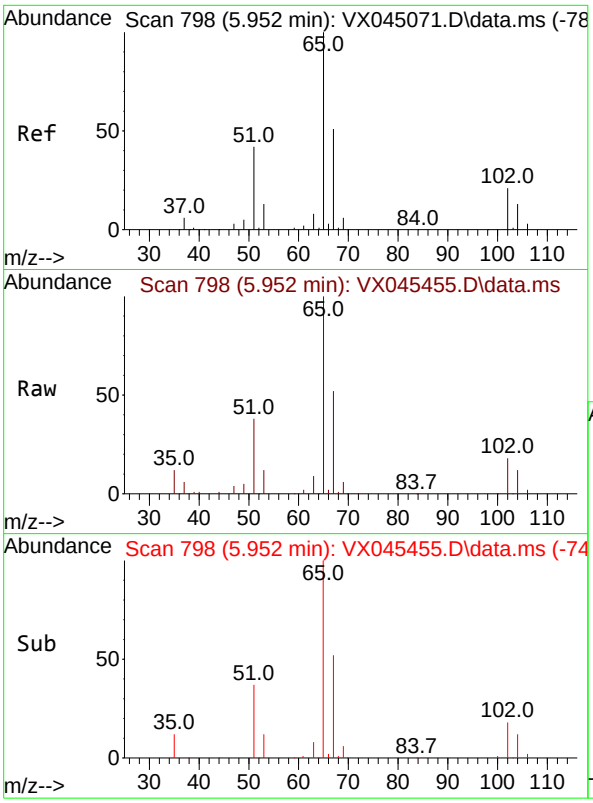


#32
1,1,1-Trichloroethane
Concen: 60.925 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 97 Resp: 90456

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.6	77.4
61	50.1	38.4	57.6

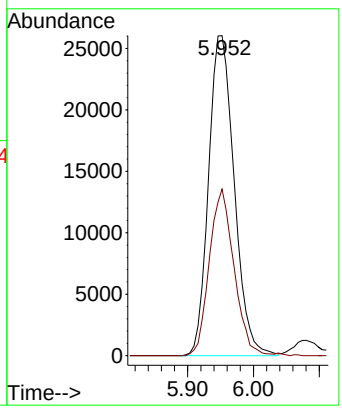




#33
1,2-Dichloroethane-d4
Concen: 59.981 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 65 Resp: 7080

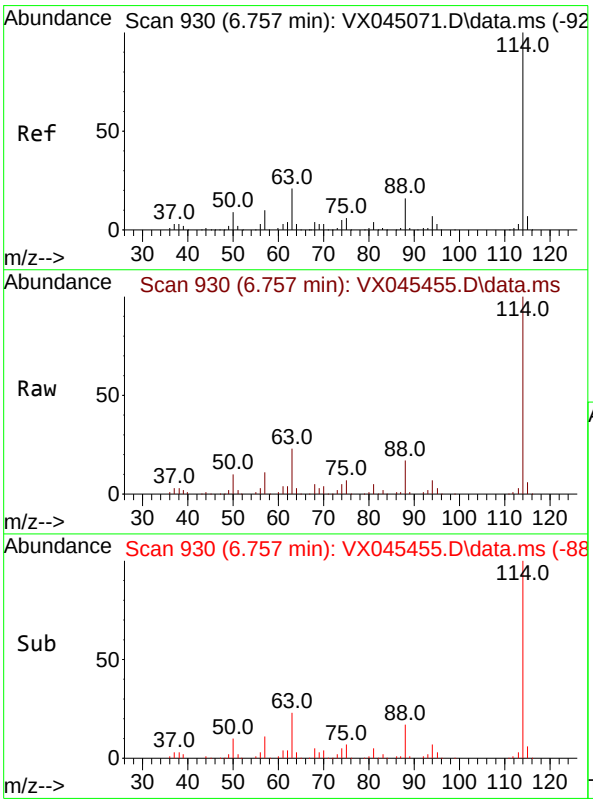
Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

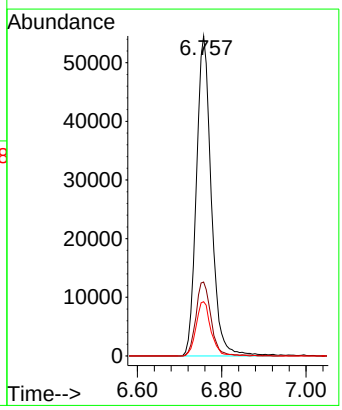
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

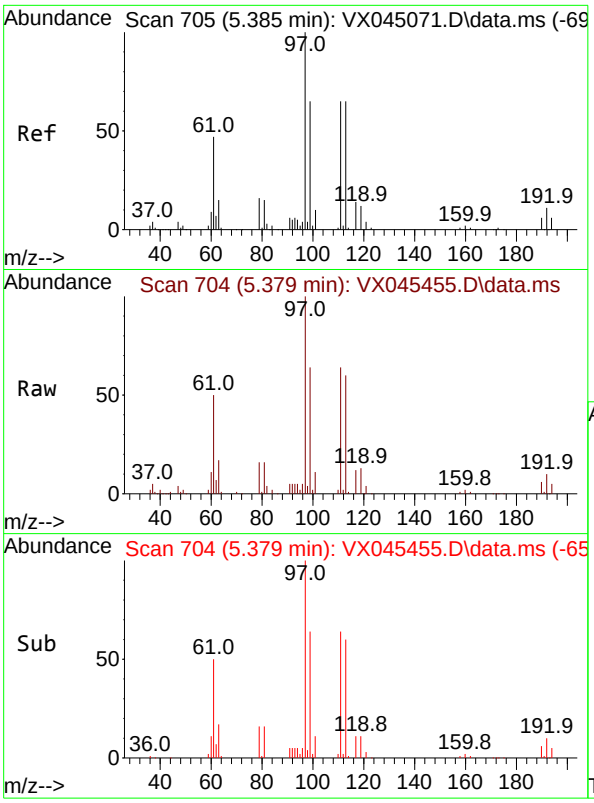


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:114 Resp: 134524

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	41.8
88	17.0	0.0	32.8

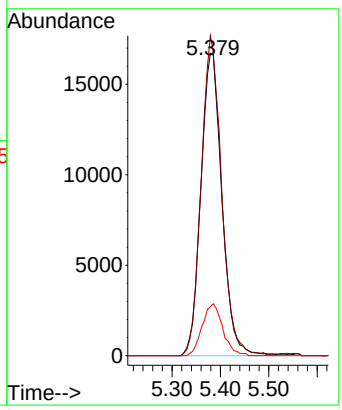




#35
Dibromofluoromethane
Concen: 56.066 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:113 Resp: 5043

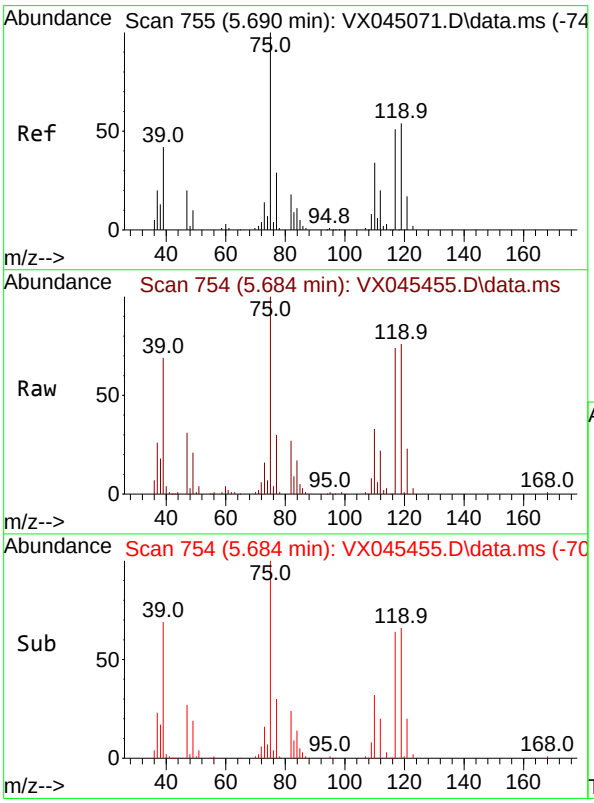
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	16.8	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

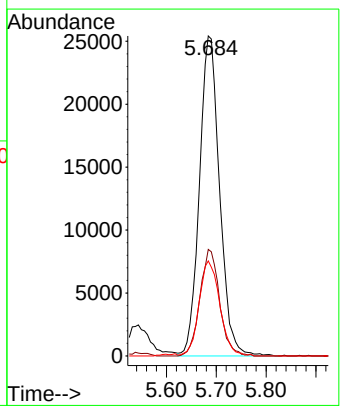
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

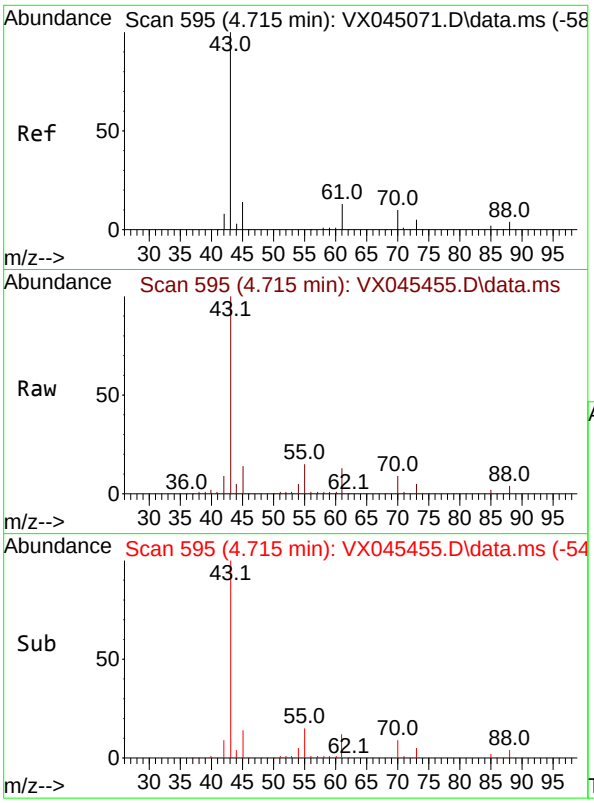


#36
1,1-Dichloropropene
Concen: 57.863 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 71380

Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.9	50.6
77	30.5	24.5	36.7





#37
Ethyl Acetate
Concen: 55.438 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

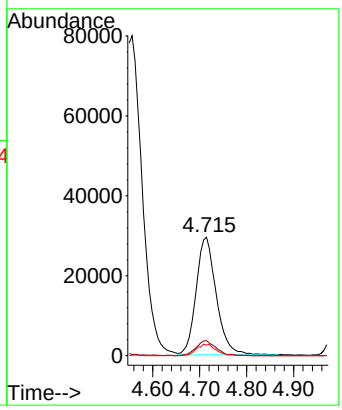
Tgt Ion: 43 Resp: 8812

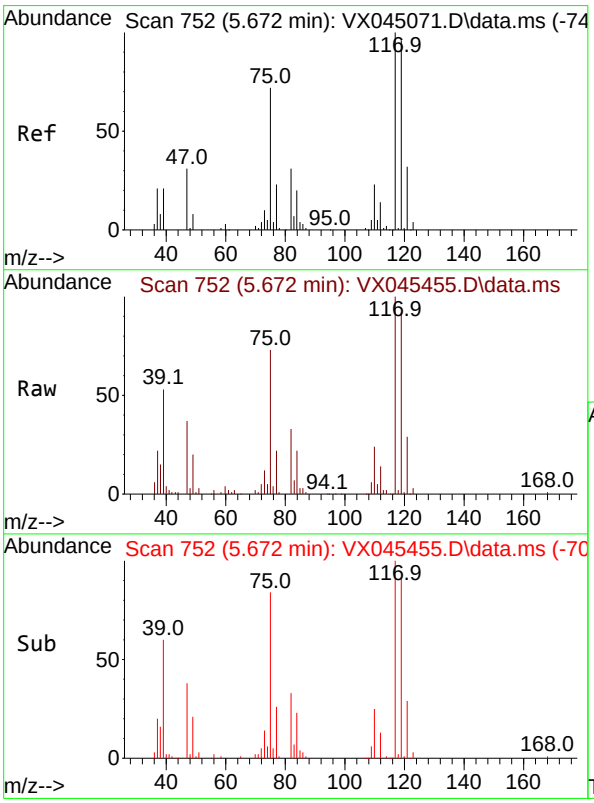
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.8	16.2
70	9.4	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

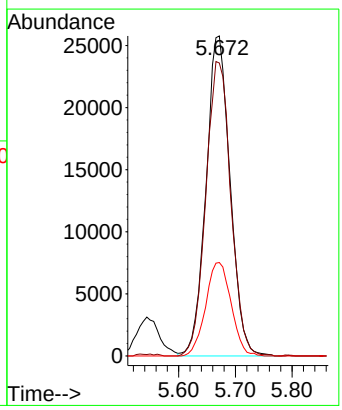


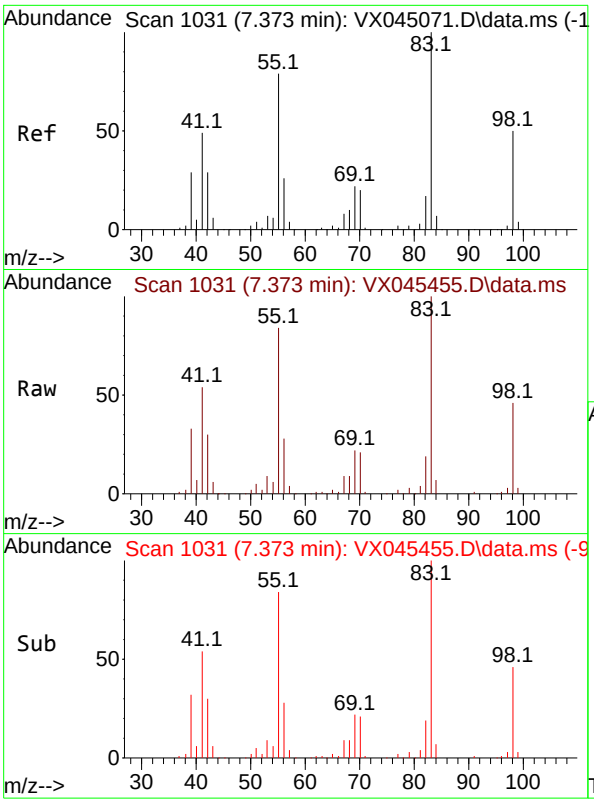


#38
Carbon Tetrachloride
Concen: 60.748 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:117 Resp: 76081

Ion	Ratio	Lower	Upper
117	100		
119	91.6	76.7	115.1
121	29.2	25.5	38.3

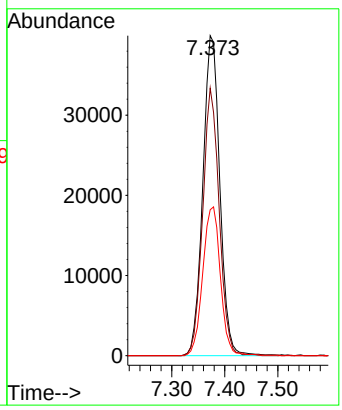




#39
Methylcyclohexane
Concen: 60.220 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 83 Resp: 8901

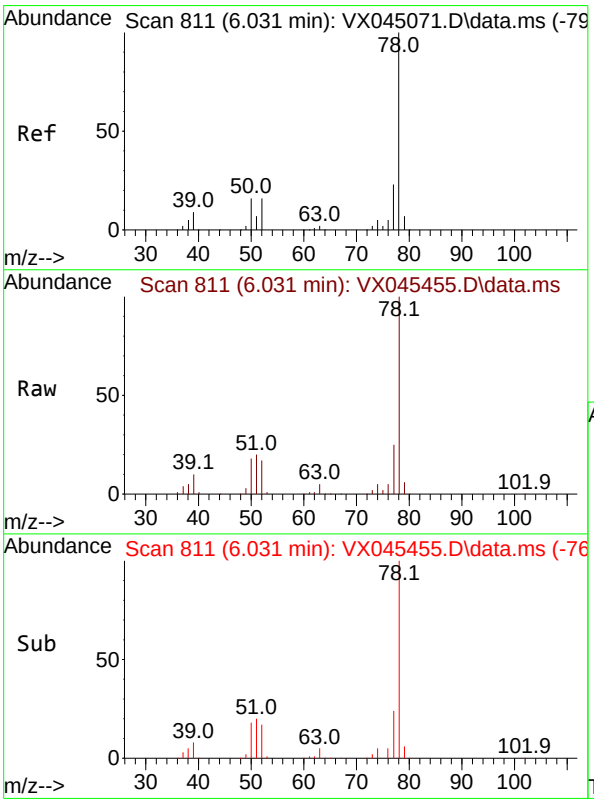
Ion	Ratio	Lower	Upper
83	100		
55	83.6	63.0	94.4
98	45.6	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

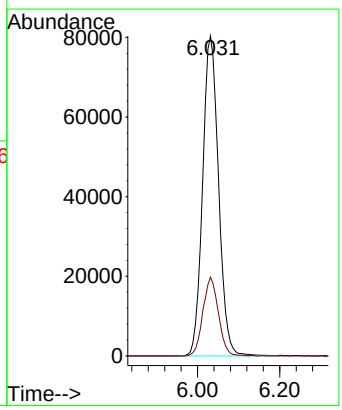
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

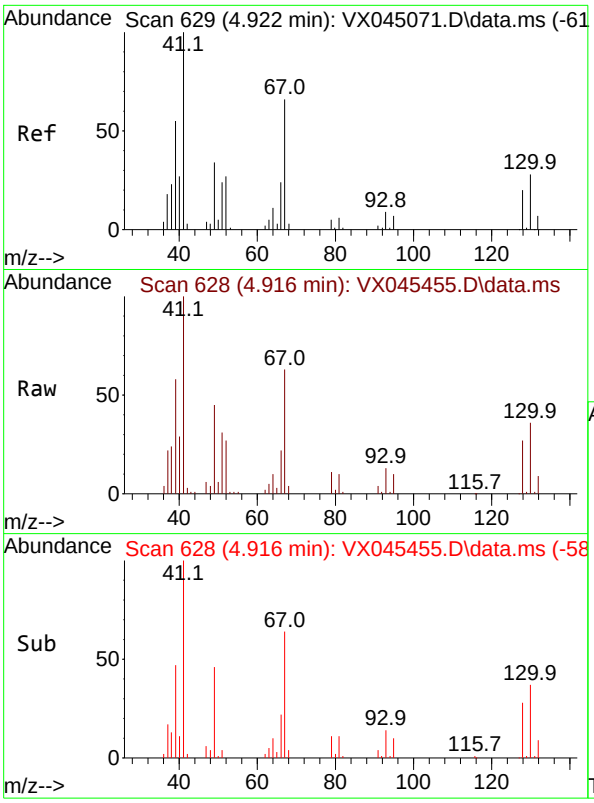


#40
Benzene
Concen: 55.448 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 78 Resp: 215997

Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.8	28.2

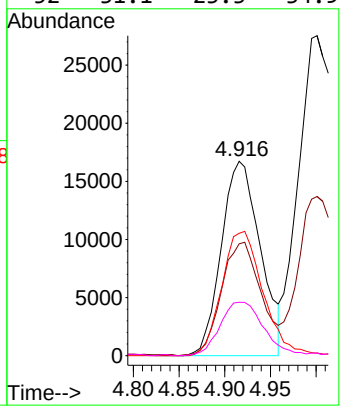




#41
Methacrylonitrile
Concen: 57.777 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 41 Resp: 4966

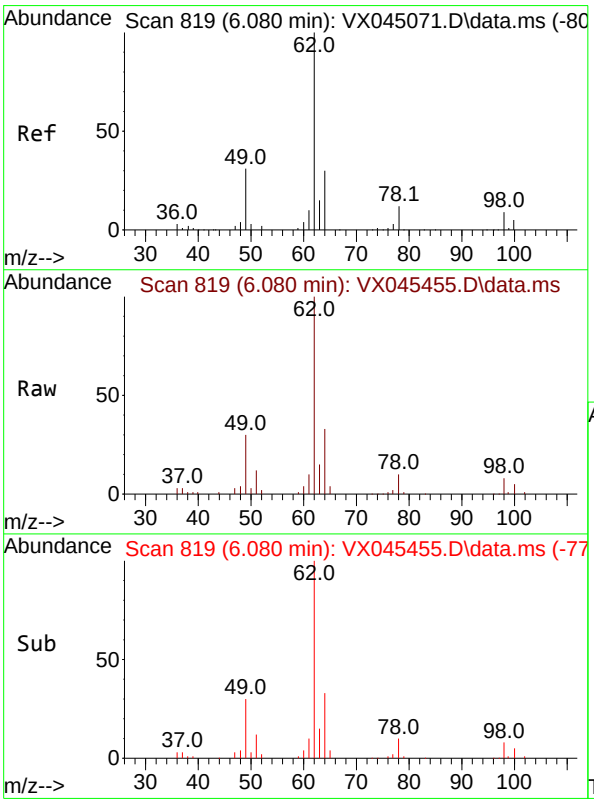
Ion	Ratio	Lower	Upper
41	100		
39	59.4	44.6	67.0
67	68.0	53.9	80.9
52	31.1	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

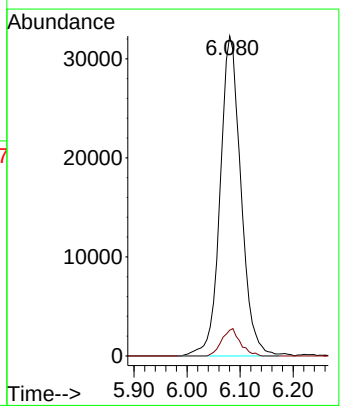
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

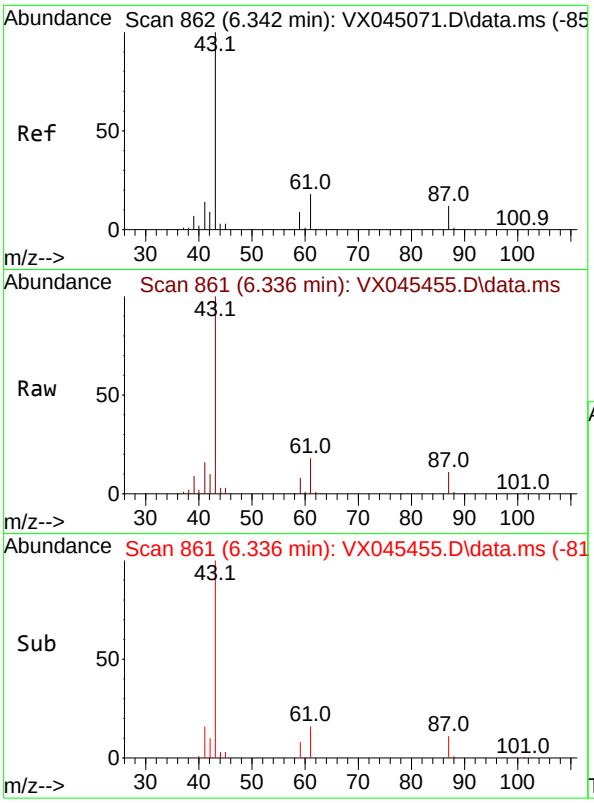


#42
1,2-Dichloroethane
Concen: 62.788 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 62 Resp: 88076

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	18.2

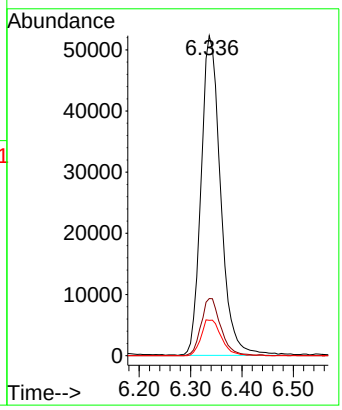




#43
Isopropyl Acetate
Concen: 58.665 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 13789

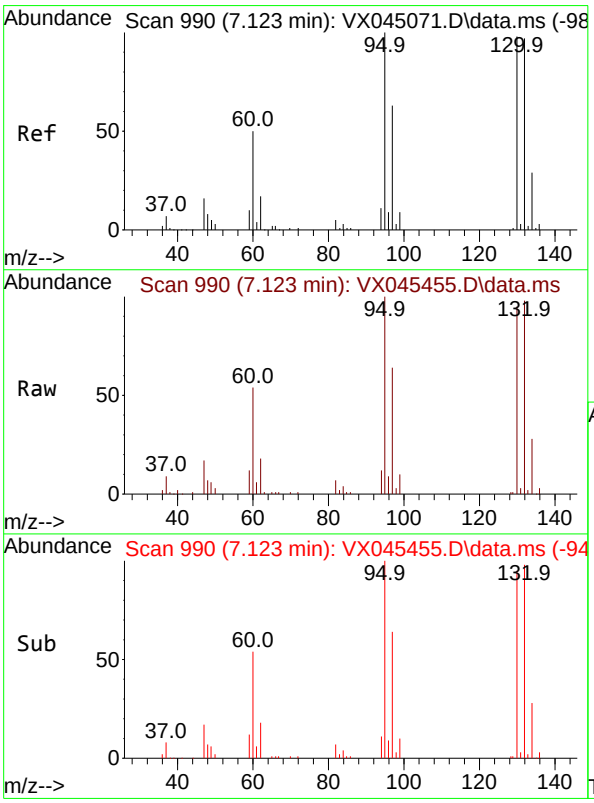
Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.9	22.3
87	11.6	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

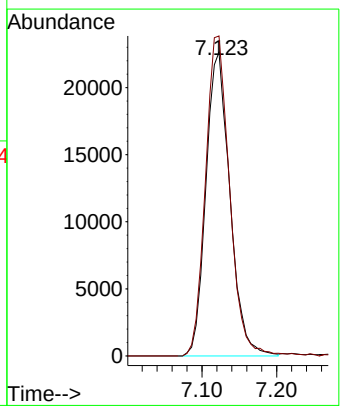
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

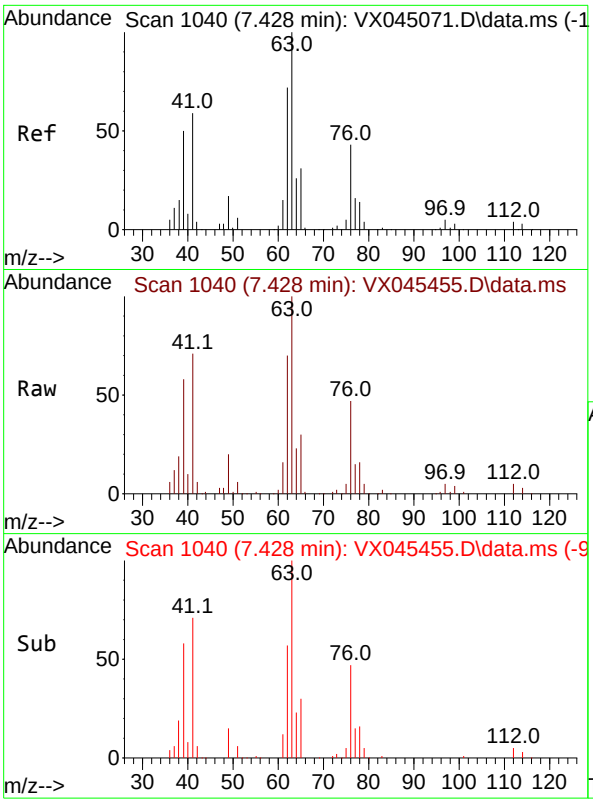


#44
Trichloroethene
Concen: 55.263 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:130 Resp: 50548

Ion	Ratio	Lower	Upper
130	100		
95	105.3	0.0	205.0





#45
1,2-Dichloropropane
Concen: 55.105 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

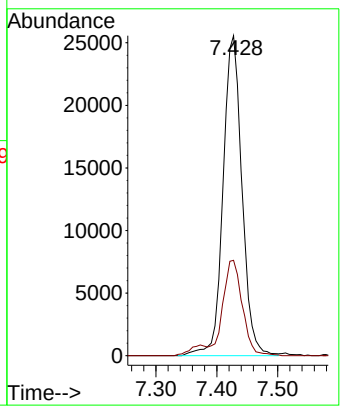
Tgt Ion: 63 Resp: 5519

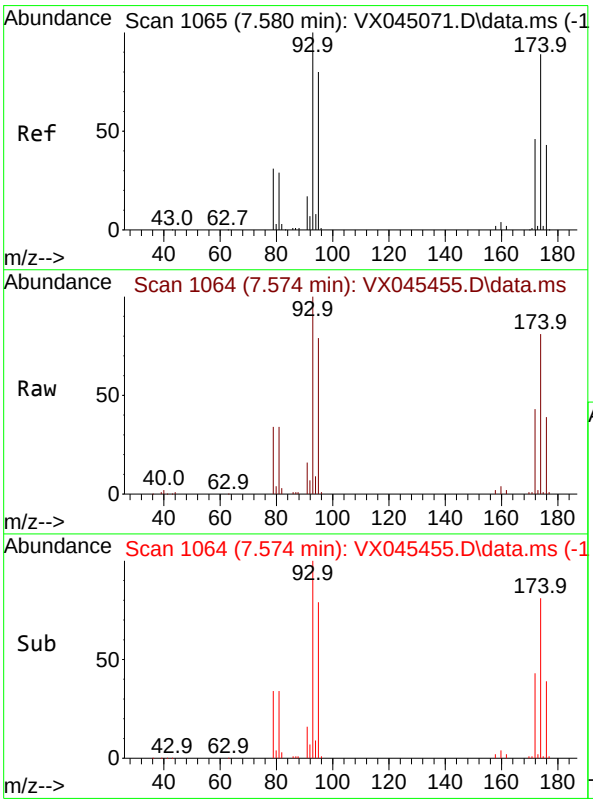
Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

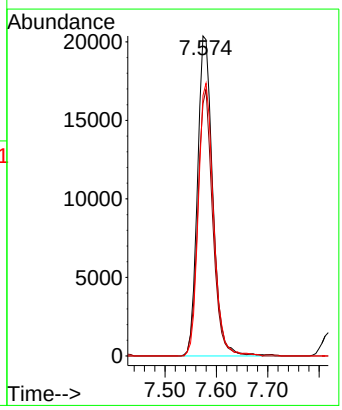


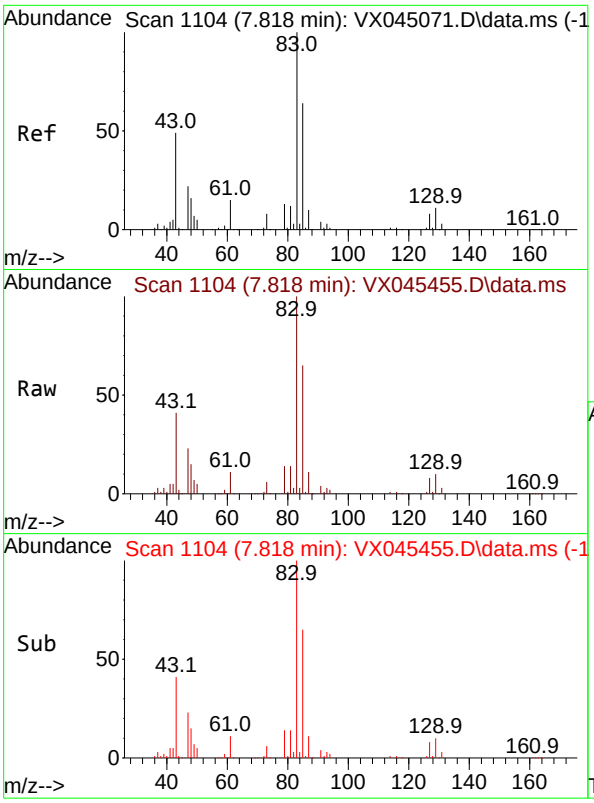


#46
Dibromomethane
Concen: 59.321 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 93 Resp: 41994

Ion	Ratio	Lower	Upper
93	100		
95	80.8	65.8	98.8
174	85.0	72.2	108.2

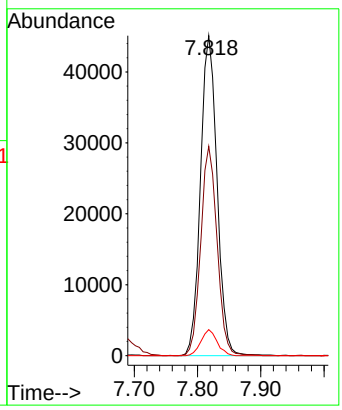




#47
Bromodichloromethane
Concen: 59.321 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

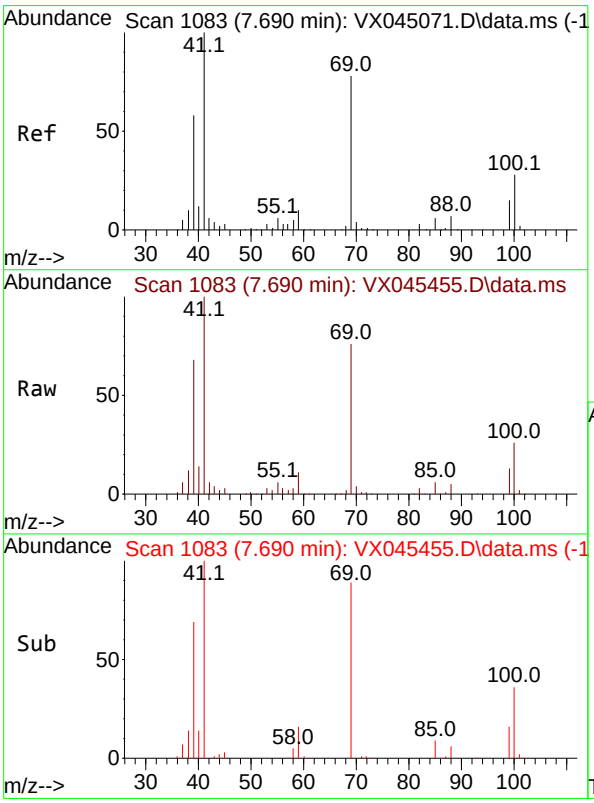
Tgt Ion: 83 Resp: 8237

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.1	76.7
127	8.1	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

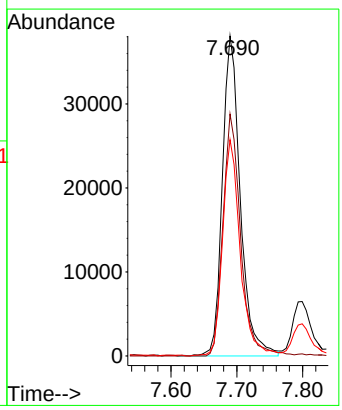
Manual Integrations APPROVED
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

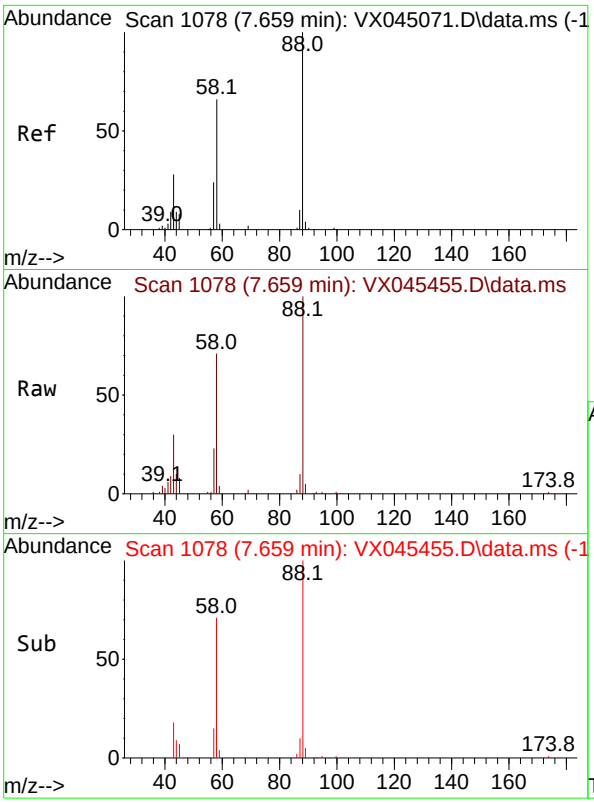


#48
Methyl methacrylate
Concen: 61.434 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 41 Resp: 72446

Ion	Ratio	Lower	Upper
41	100		
69	74.5	63.0	94.6
39	66.8	47.5	71.3

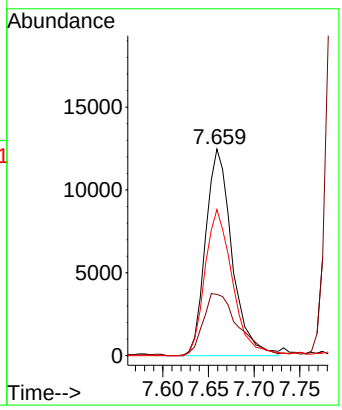




#49
1,4-Dioxane
Concen: 1006.555 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 88 Resp: 2503

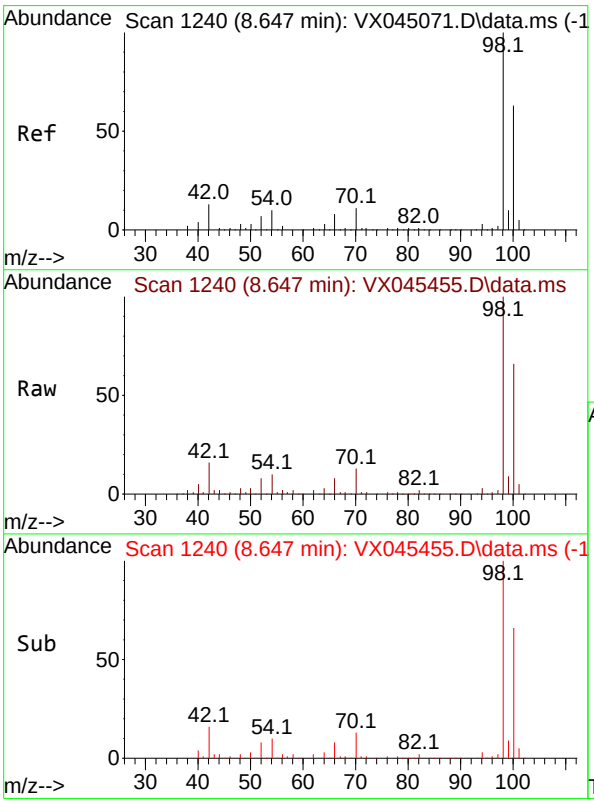
Ion	Ratio	Lower	Upper
88	100		
43	40.3	28.7	43.1
58	73.9	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

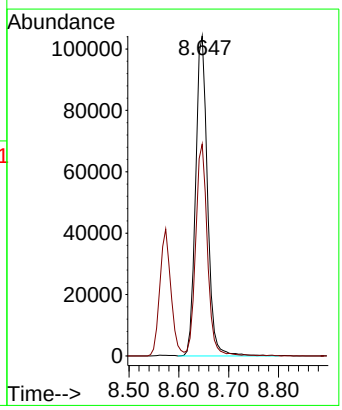
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

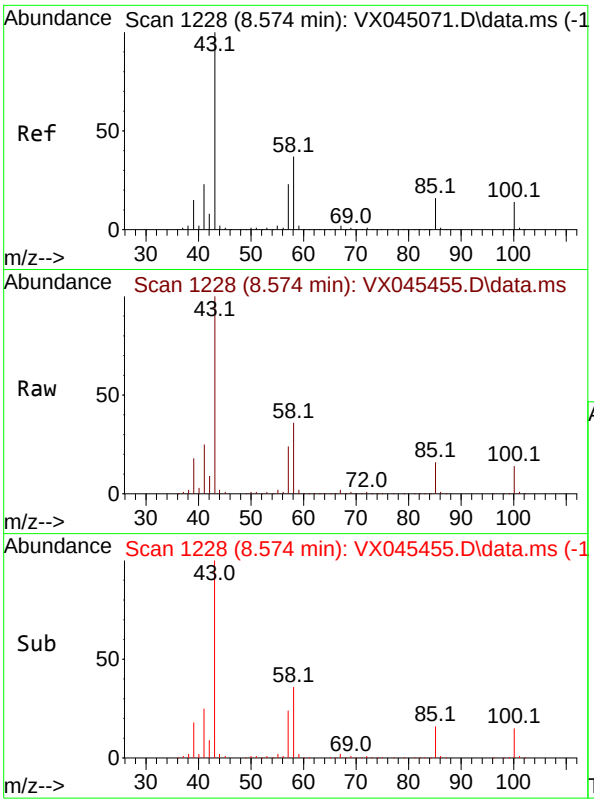


#50
Toluene-d8
Concen: 52.766 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 98 Resp: 172074

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.0	78.0

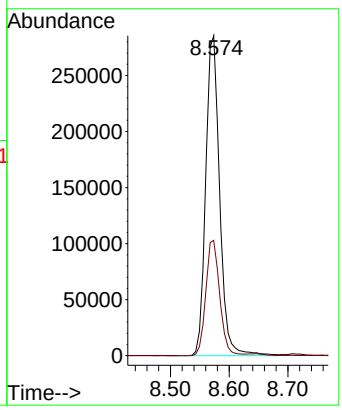




#51
4-Methyl-2-Pentanone
Concen: 298.691 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 47141

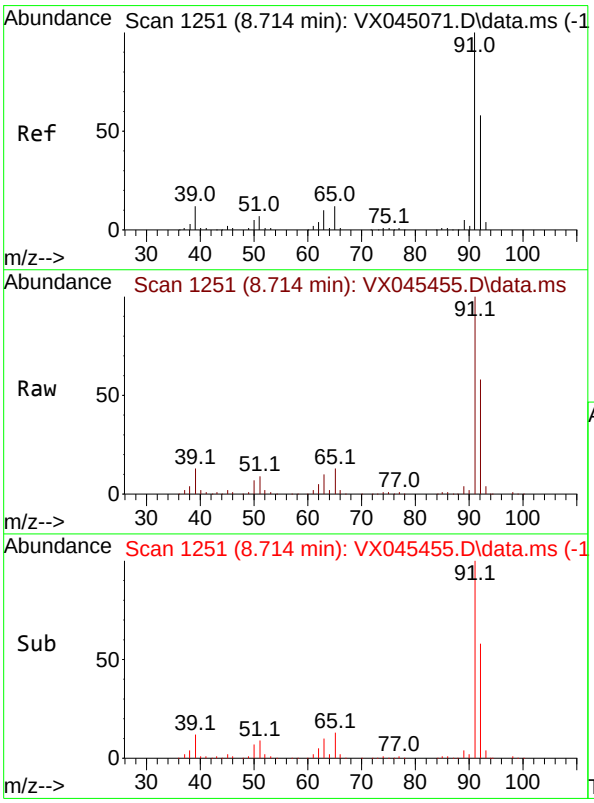
Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

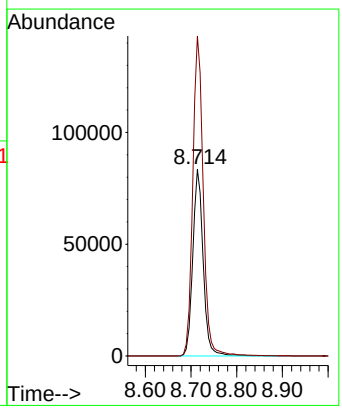
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

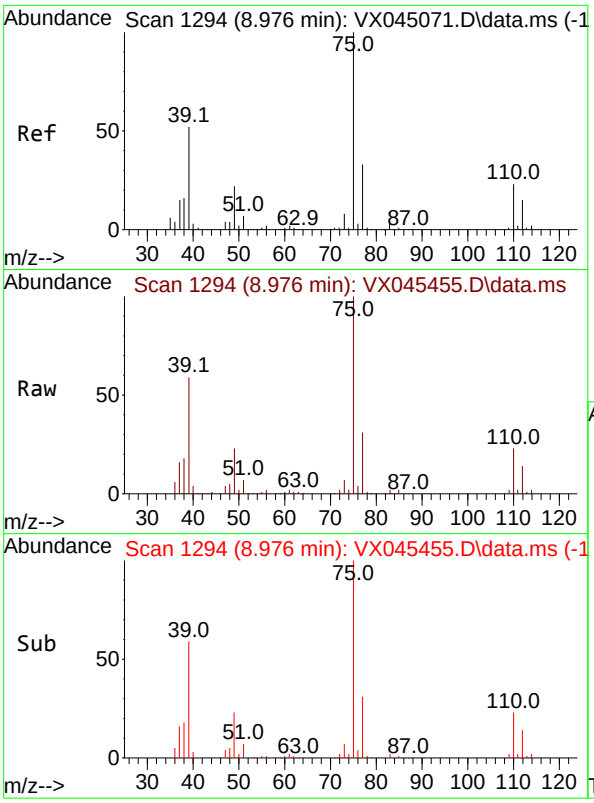


#52
Toluene
Concen: 57.535 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 92 Resp: 131498

Ion	Ratio	Lower	Upper
92	100		
91	173.4	138.9	208.3

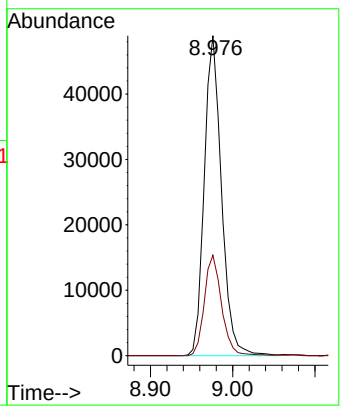




#53
t-1,3-Dichloropropene
Concen: 61.389 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 7126

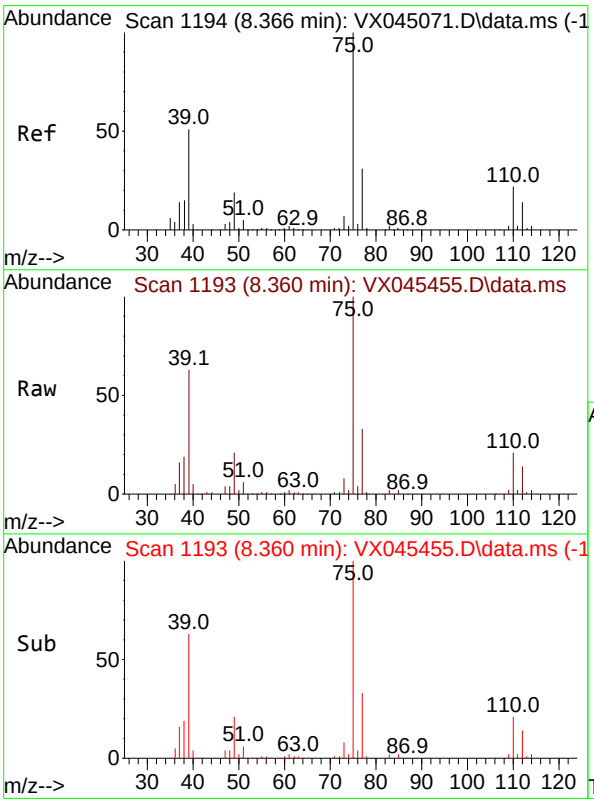
Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

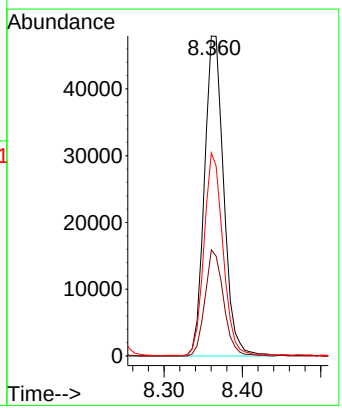
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

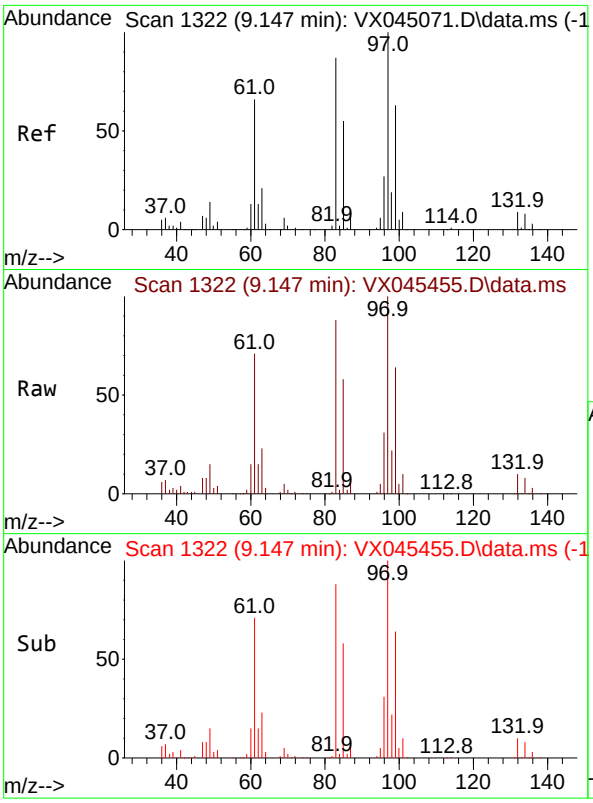


#54
cis-1,3-Dichloropropene
Concen: 60.428 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 81798

Ion	Ratio	Lower	Upper
75	100		
77	33.2	24.7	37.1
39	63.3	40.7	61.1#

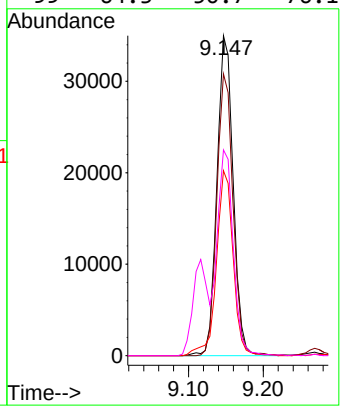




#55
1,1,2-Trichloroethane
Concen: 55.917 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 97 Resp: 5261

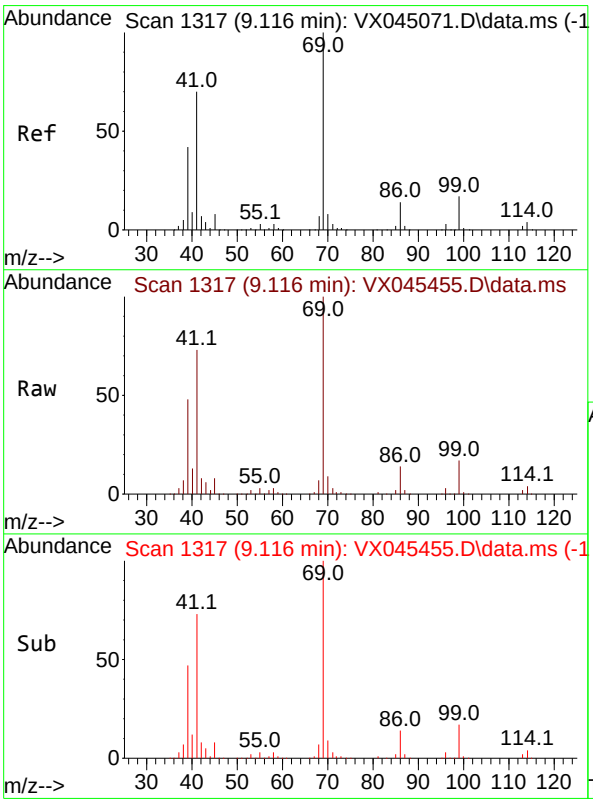
Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.4	104.2
85	57.8	44.1	66.1
99	64.3	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

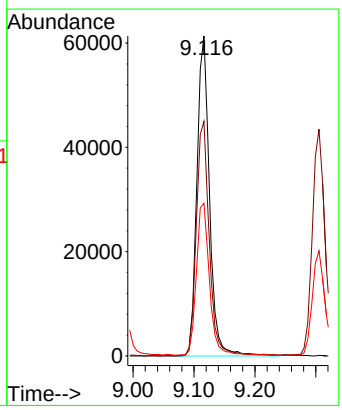
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

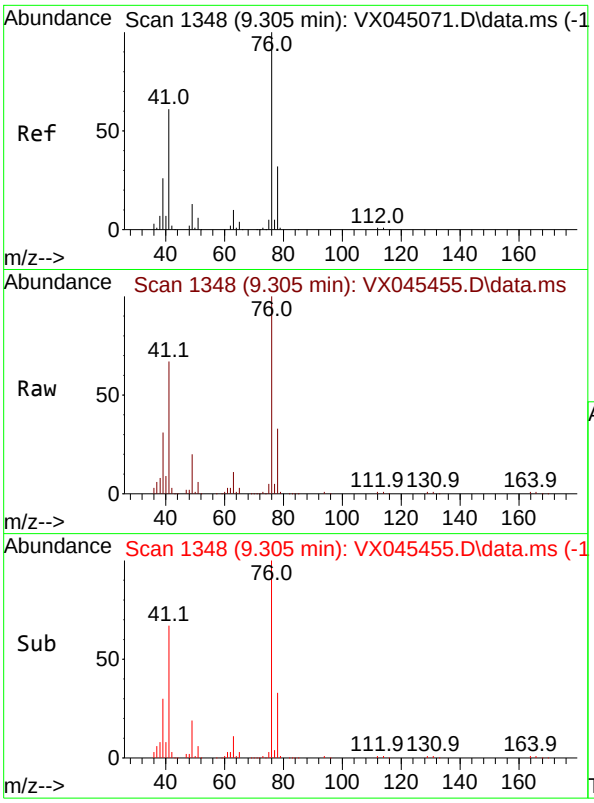


#56
Ethyl methacrylate
Concen: 61.863 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 69 Resp: 88478

Ion	Ratio	Lower	Upper
69	100		
41	75.7	57.0	85.4
39	48.8	34.2	51.4

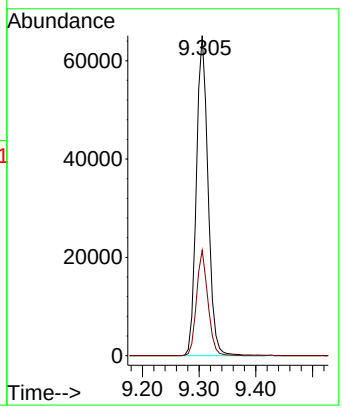




#57
1,3-Dichloropropane
Concen: 57.147 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 76 Resp: 9305

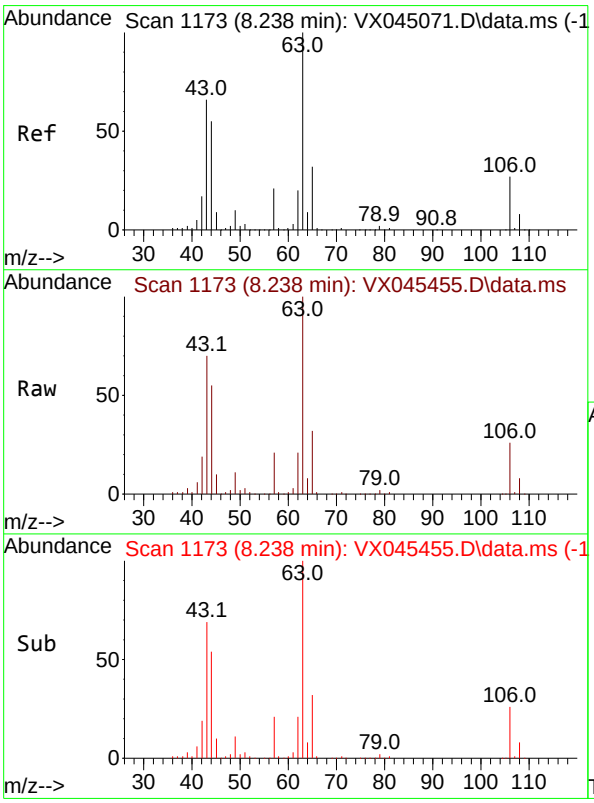
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

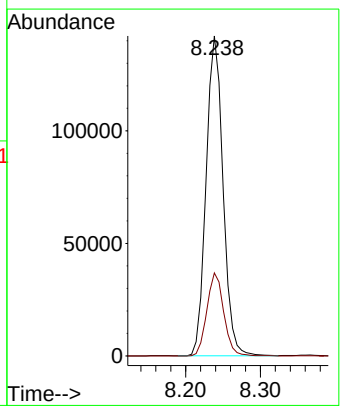
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

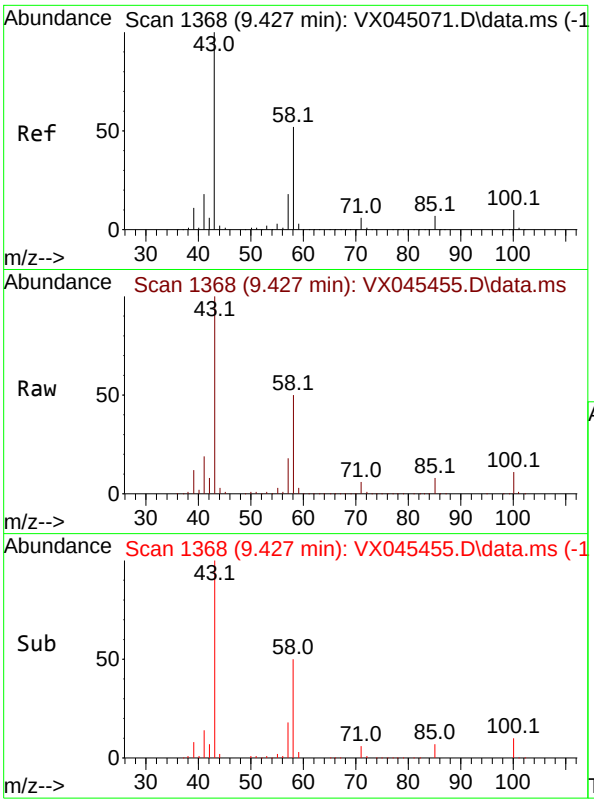


#58
2-Chloroethyl Vinyl ether
Concen: 320.494 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 63 Resp: 223602

Ion	Ratio	Lower	Upper
63	100		
106	25.9	21.5	32.3





#59
2-Hexanone
Concen: 308.540 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

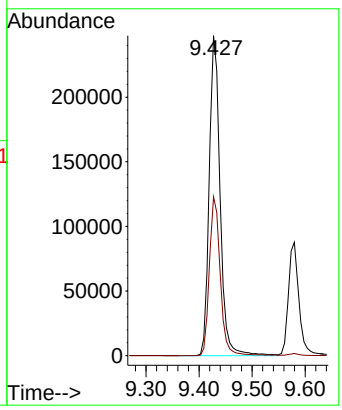
Tgt Ion: 43 Resp: 35282

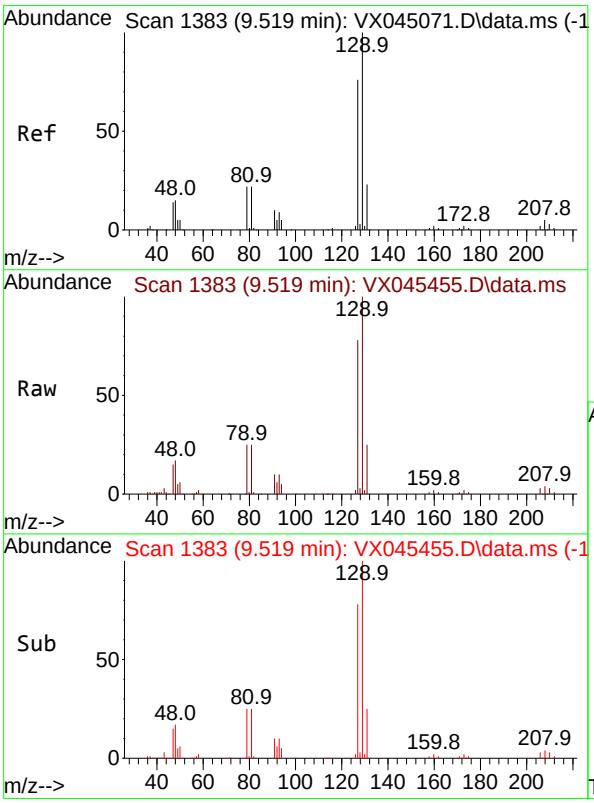
Ion	Ratio	Lower	Upper
43	100		
58	49.8	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

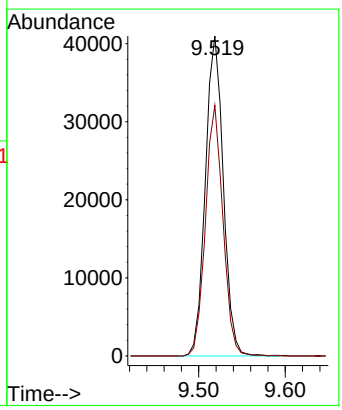


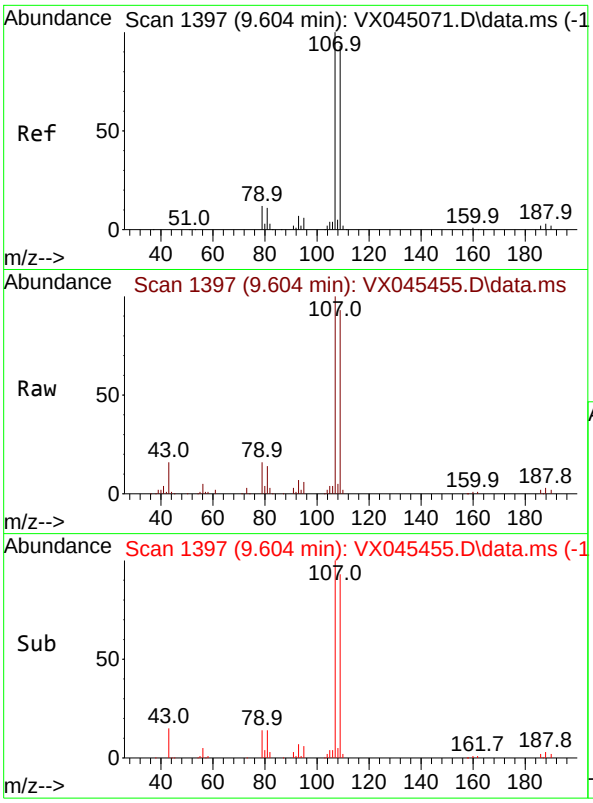


#60
Dibromochloromethane
Concen: 59.912 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:129 Resp: 58941

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.5	115.5





#61
1,2-Dibromoethane
Concen: 57.791 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

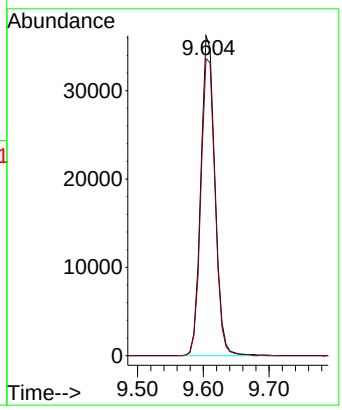
Tgt Ion:107 Resp: 5428

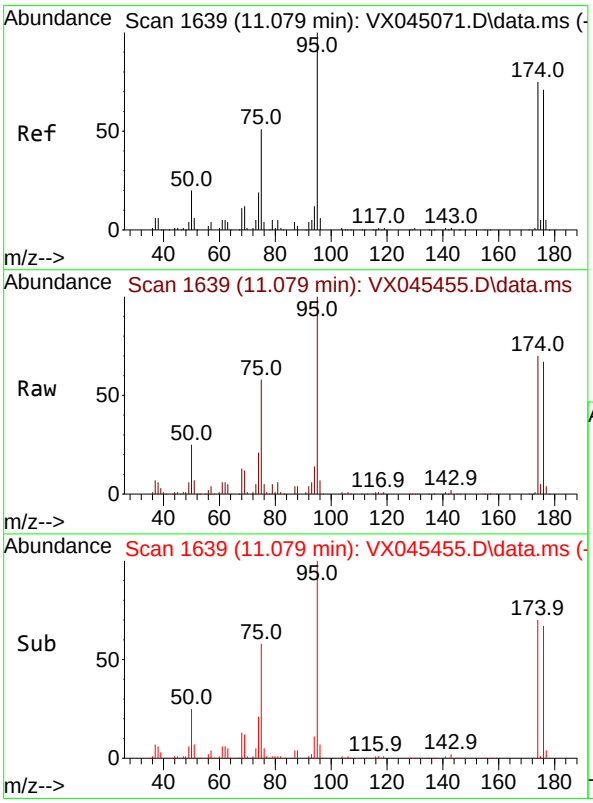
Ion	Ratio	Lower	Upper
107	100		
109	93.6	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

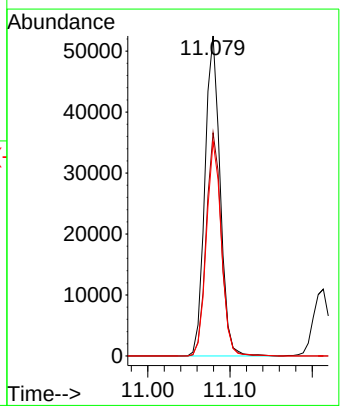


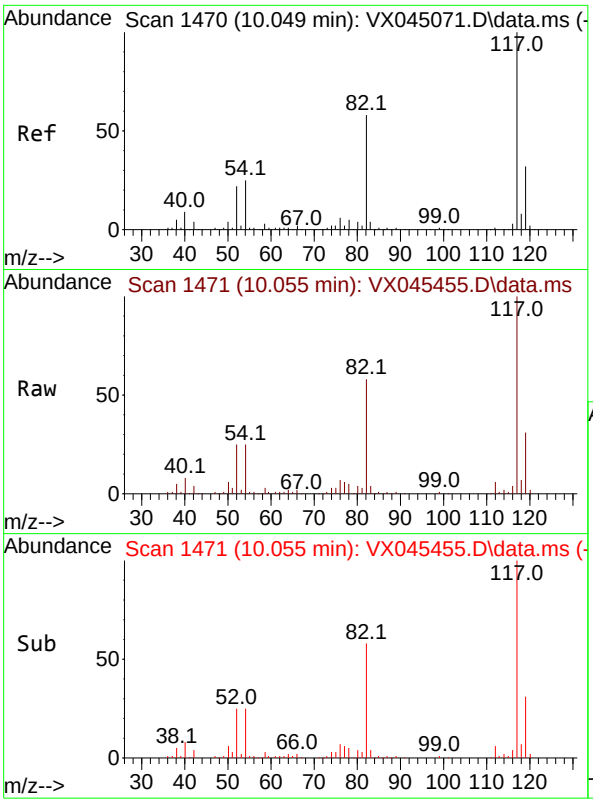


#62
4-Bromofluorobenzene
Concen: 62.340 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 95 Resp: 67367

Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	148.2
176	66.2	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

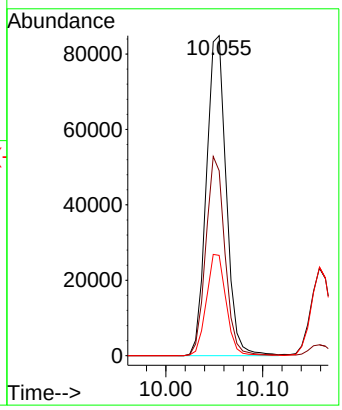
Tgt Ion:117 Resp: 12075

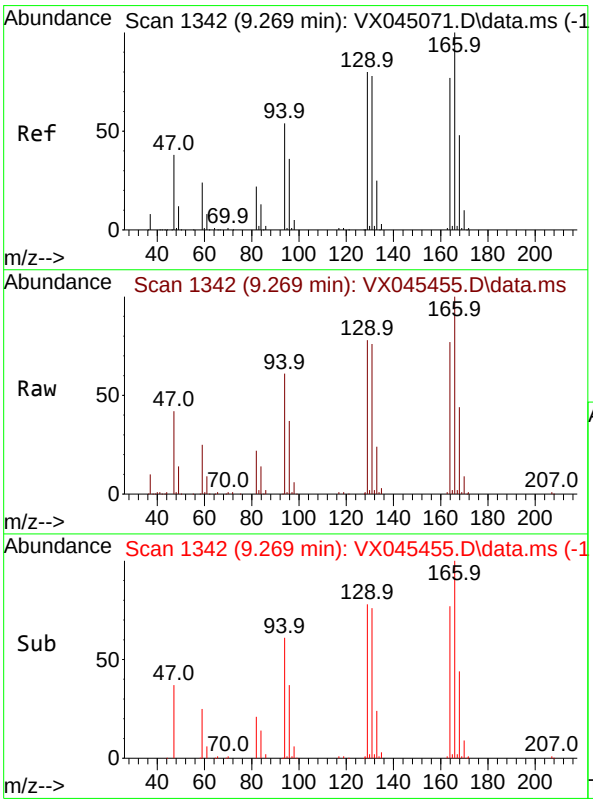
Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.3	69.5
119	31.4	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

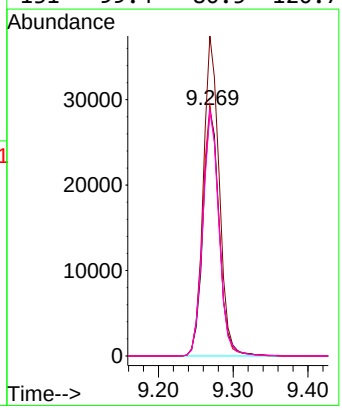


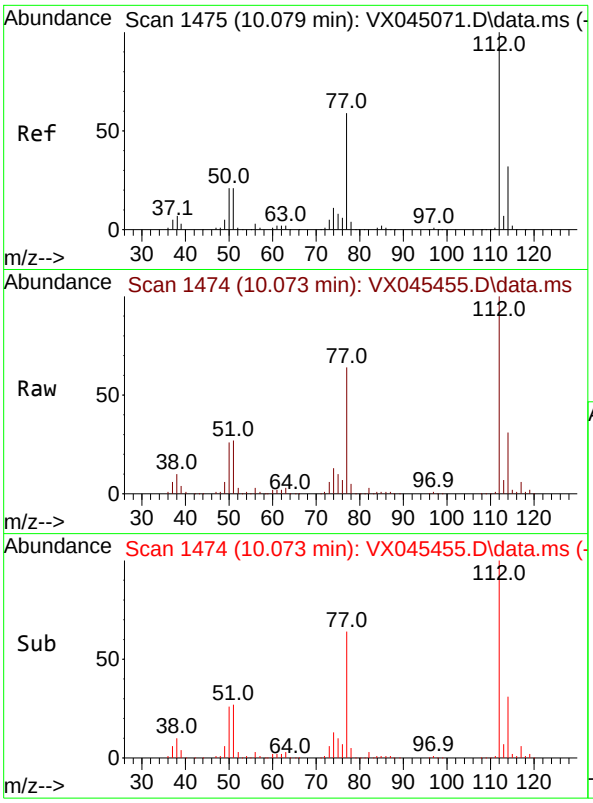


#64
Tetrachloroethene
Concen: 56.012 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:164 Resp: 43318

Ion	Ratio	Lower	Upper
164	100		
166	130.0	103.6	155.4
129	101.8	82.7	124.1
131	99.4	80.5	120.7

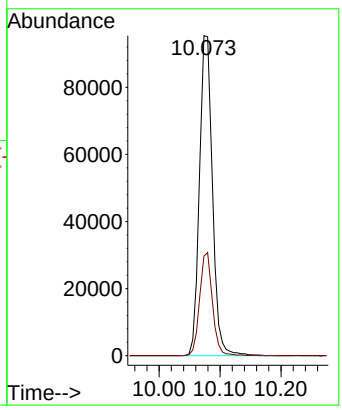




#65
Chlorobenzene
Concen: 55.448 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:112 Resp: 14167

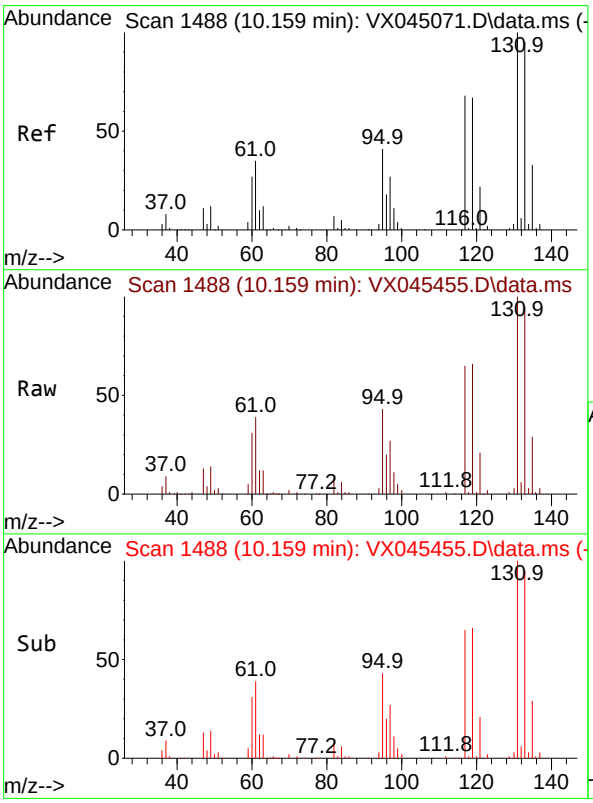
Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

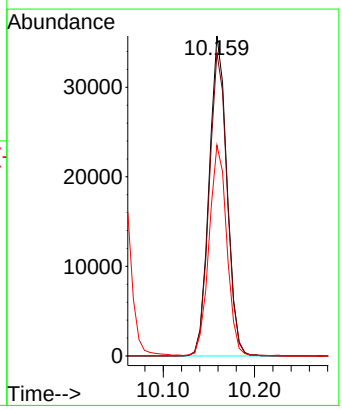
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

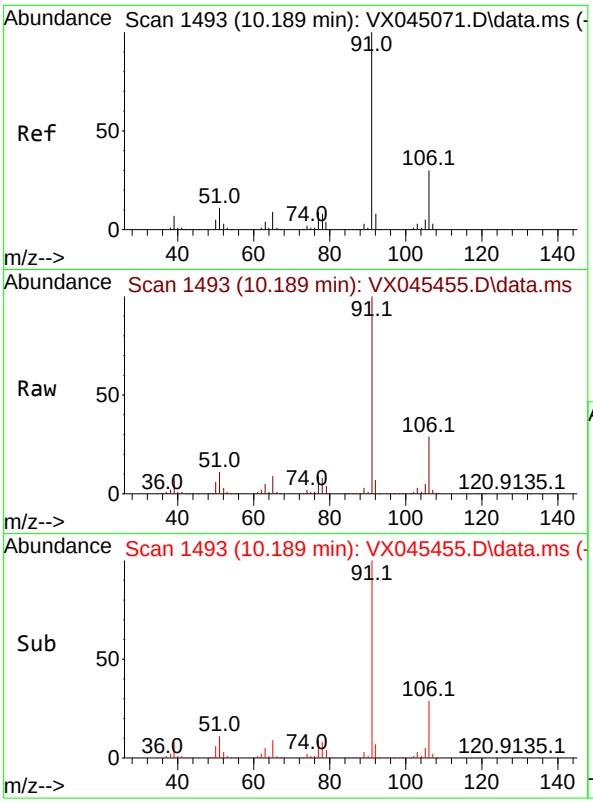


#66
1,1,1,2-Tetrachloroethane
Concen: 56.581 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:131 Resp: 48145

Ion	Ratio	Lower	Upper
131	100		
133	95.6	48.6	145.9
119	66.0	33.9	101.7

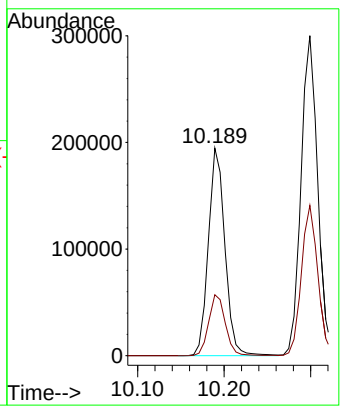




#67
Ethyl Benzene
Concen: 58.029 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 91 Resp: 25835

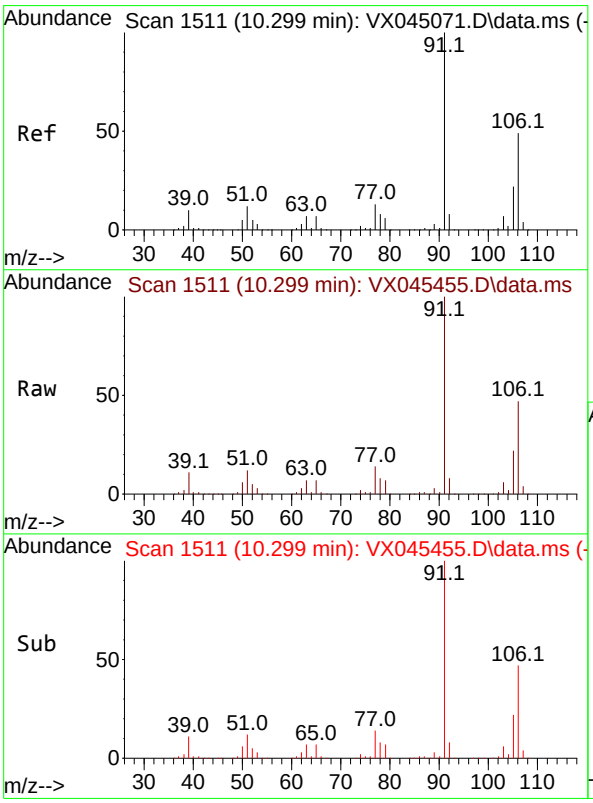
Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

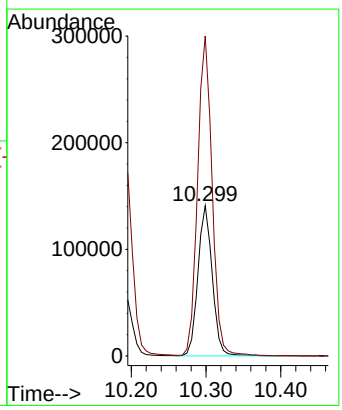
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

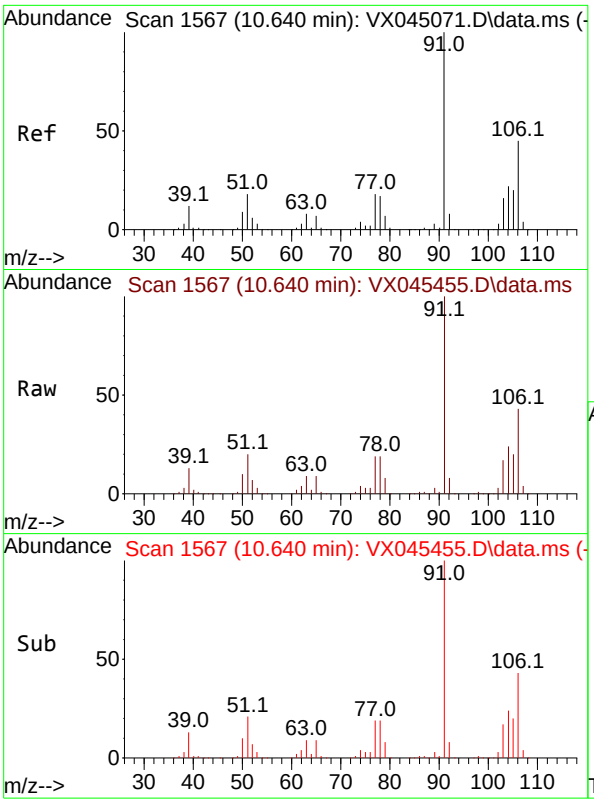


#68
m/p-Xylenes
Concen: 114.904 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:106 Resp: 187271

Ion	Ratio	Lower	Upper
106	100		
91	215.8	165.4	248.0

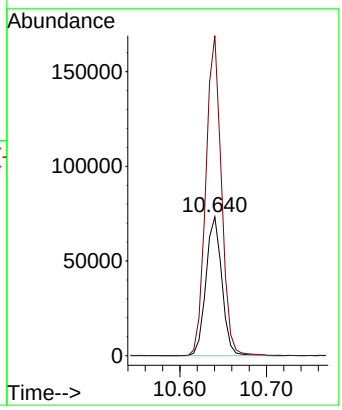




#69
o-Xylene
Concen: 56.852 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:106 Resp: 9345

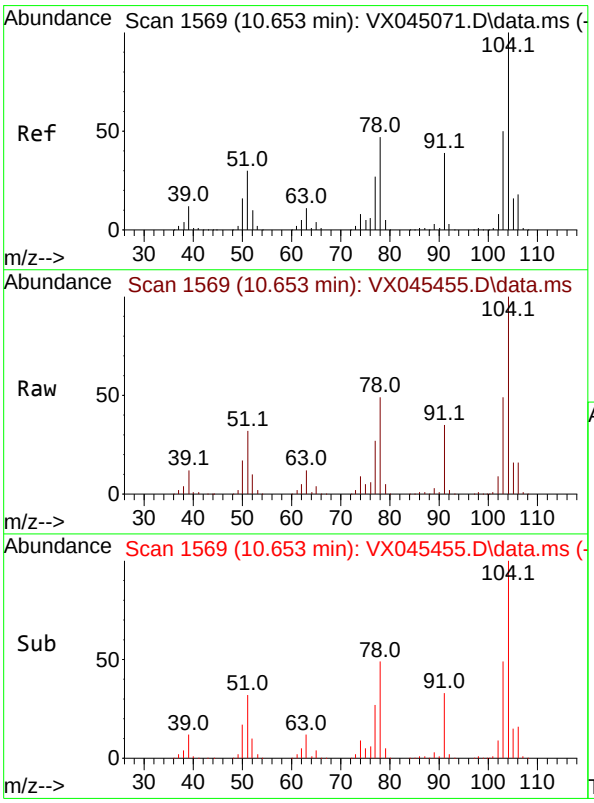
Ion	Ratio	Lower	Upper
106	100		
91	226.8	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

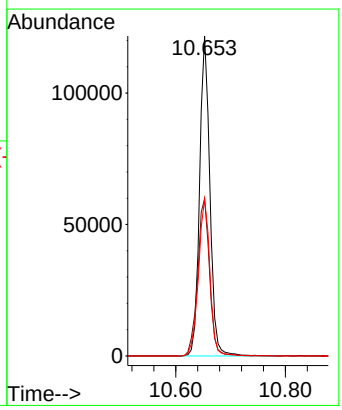
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

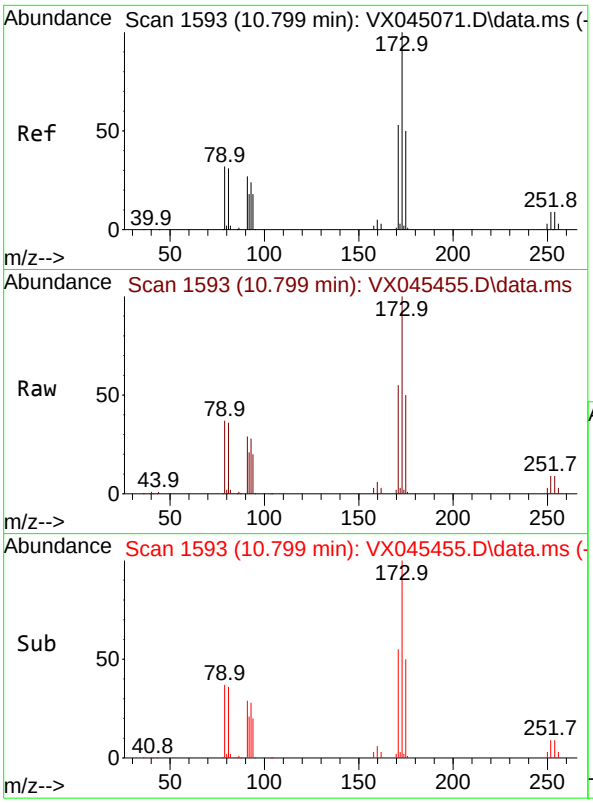


#70
Styrene
Concen: 59.715 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:104 Resp: 158826

Ion	Ratio	Lower	Upper
104	100		
78	56.8	42.2	63.4
103	54.8	43.8	65.8

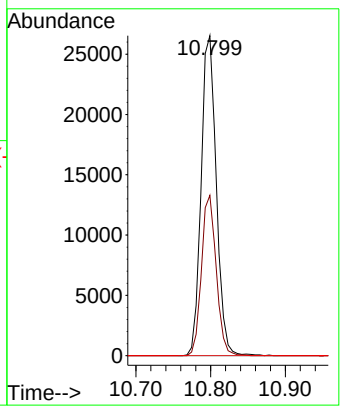




#71
Bromoform
Concen: 58.263 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:173 Resp: 3738

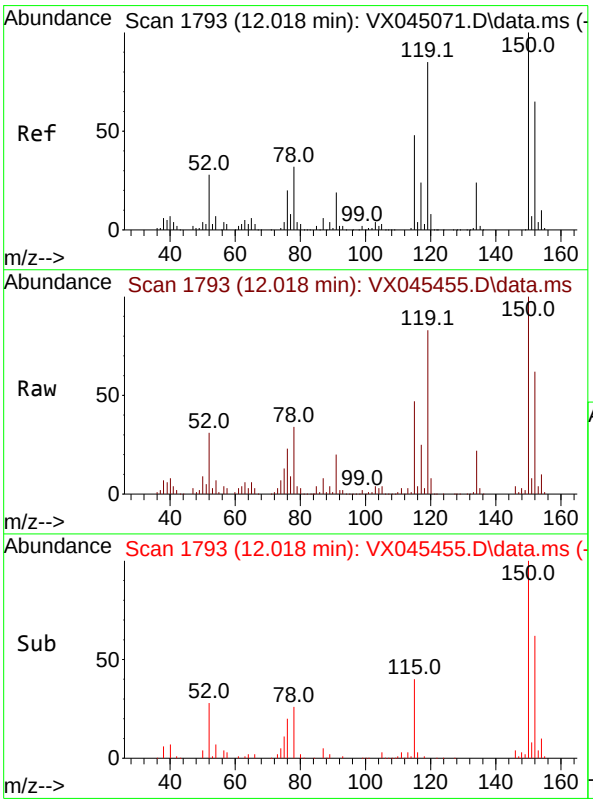
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

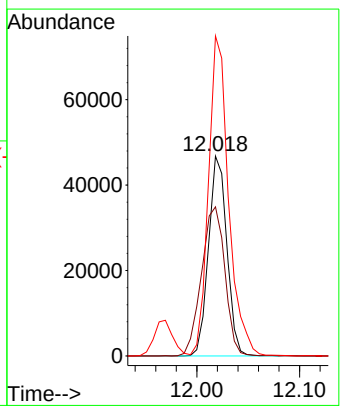
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

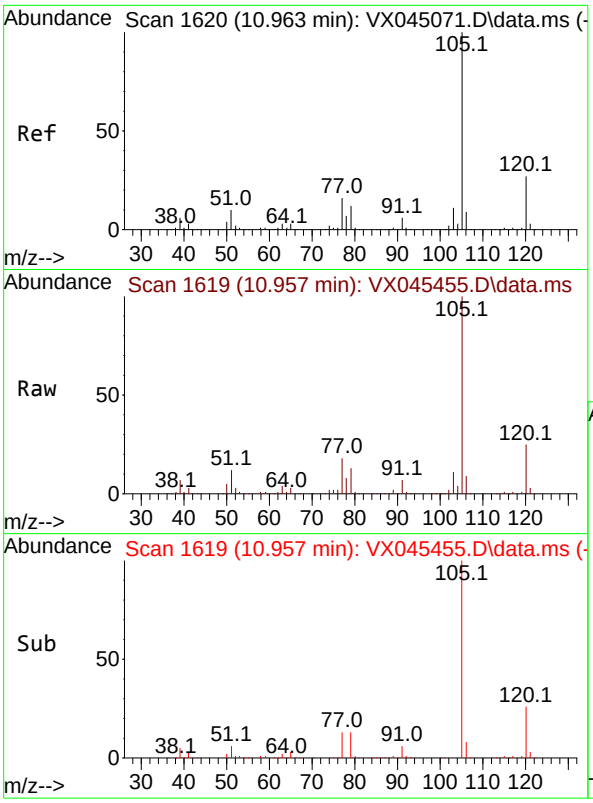


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:152 Resp: 57976

Ion	Ratio	Lower	Upper
152	100		
115	95.4	44.2	132.6
150	176.0	0.0	349.0

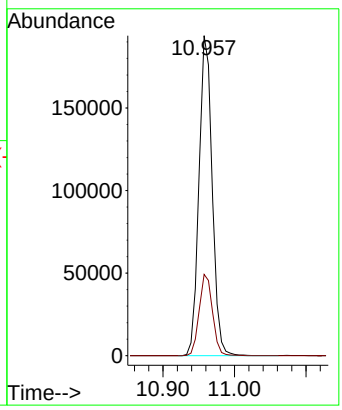




#73
Isopropylbenzene
Concen: 54.809 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:105 Resp: 24802

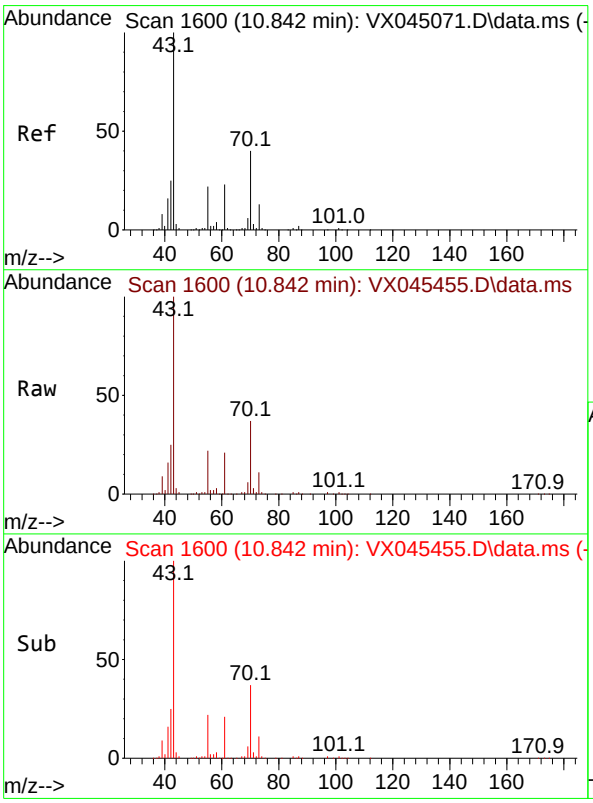
Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

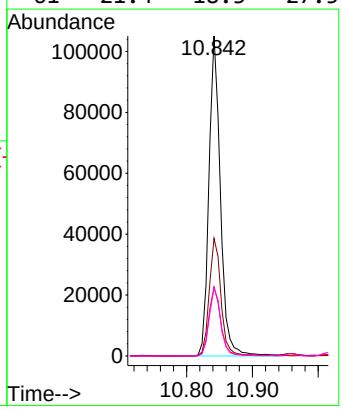
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

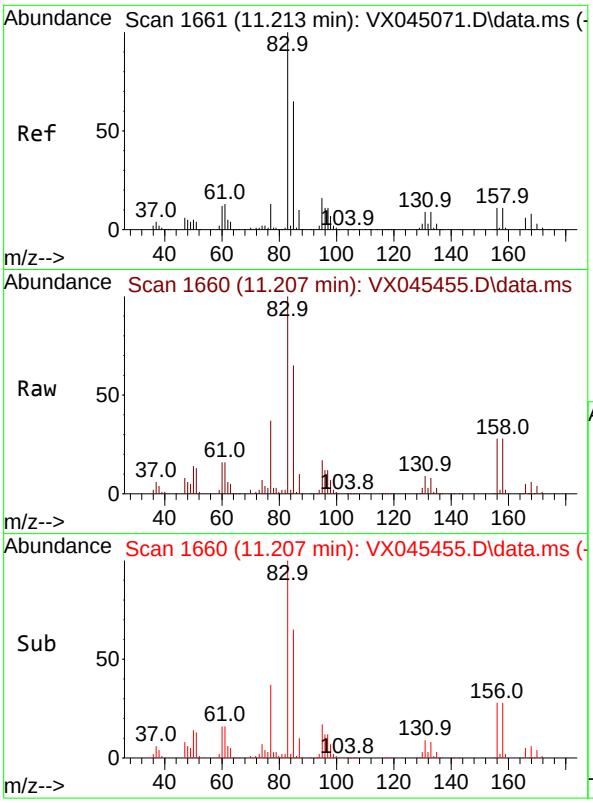


#74
N-amyl acetate
Concen: 60.199 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 127825

Ion	Ratio	Lower	Upper
43	100		
70	37.9	31.8	47.6
55	22.3	18.3	27.5
61	21.4	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 51.622 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

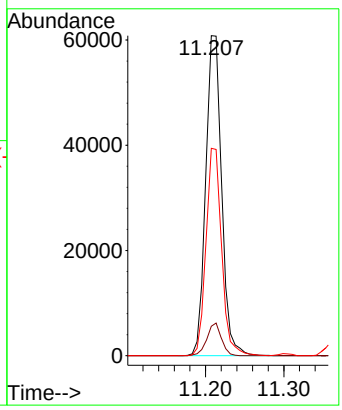
Tgt Ion: 83 Resp: 8572

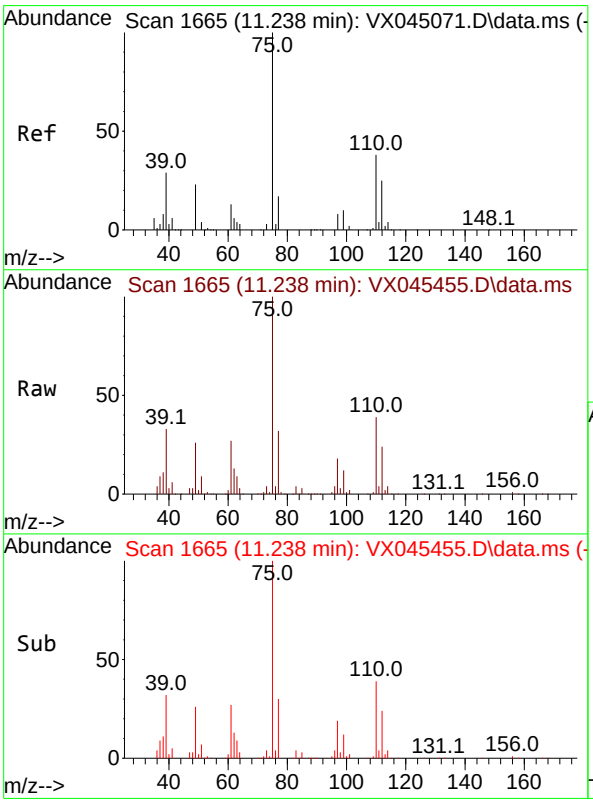
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.4
85	63.5	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

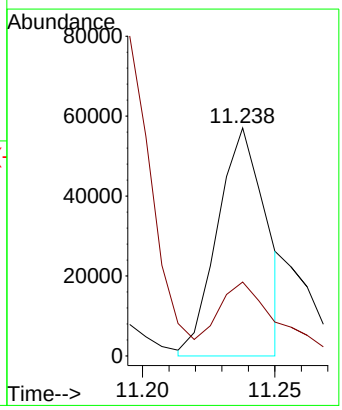


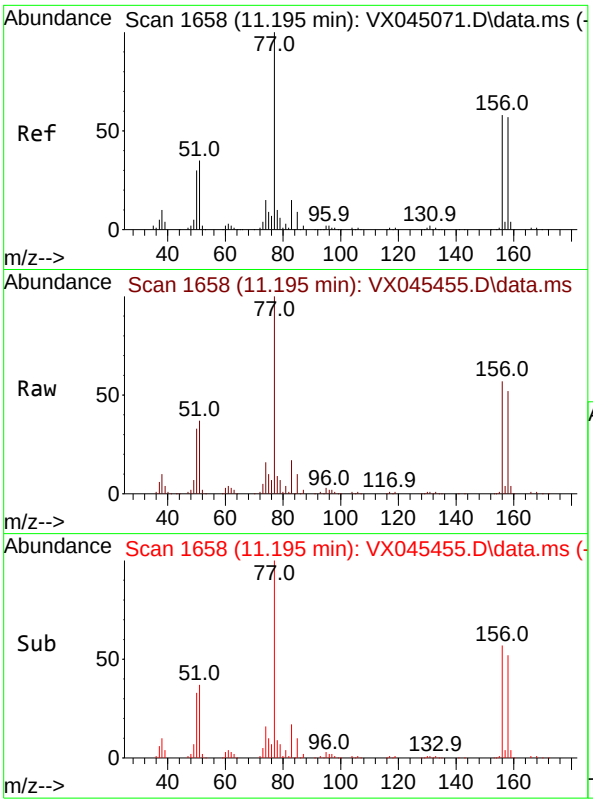


#76
1,2,3-Trichloropropane
Concen: 53.846 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 72660

Ion	Ratio	Lower	Upper
75	100		
77	40.0	20.7	62.1

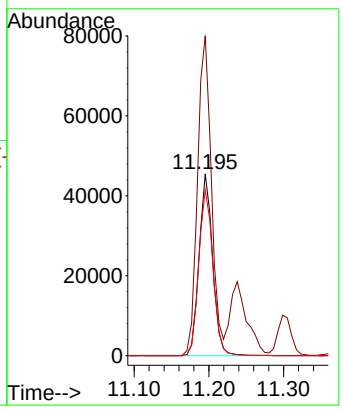




#77
Bromobenzene
Concen: 53.713 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:156 Resp: 5734

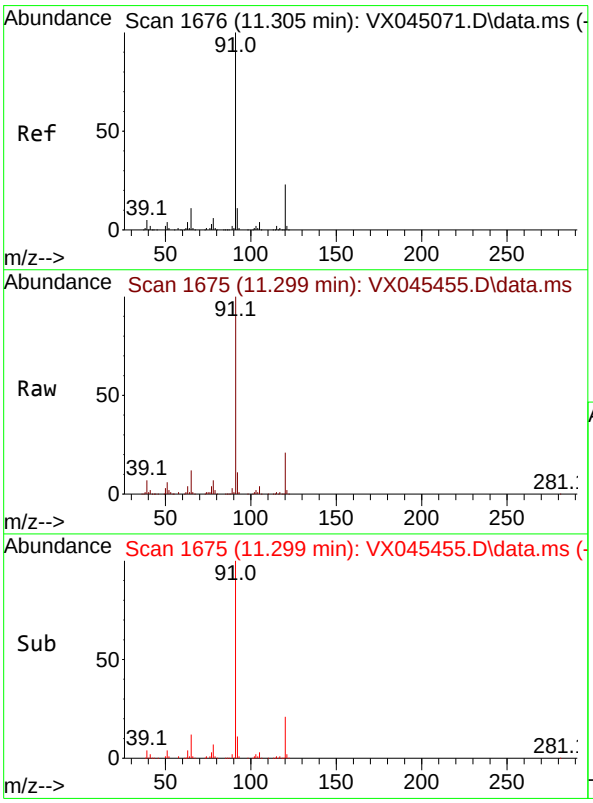
Ion	Ratio	Lower	Upper
156	100		
77	179.8	85.8	257.4
158	95.2	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

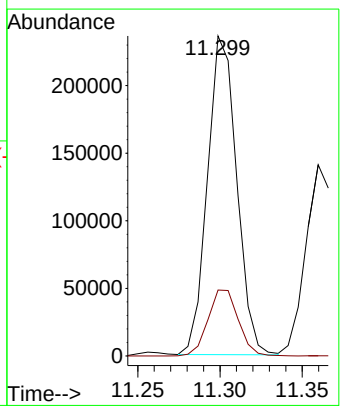
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

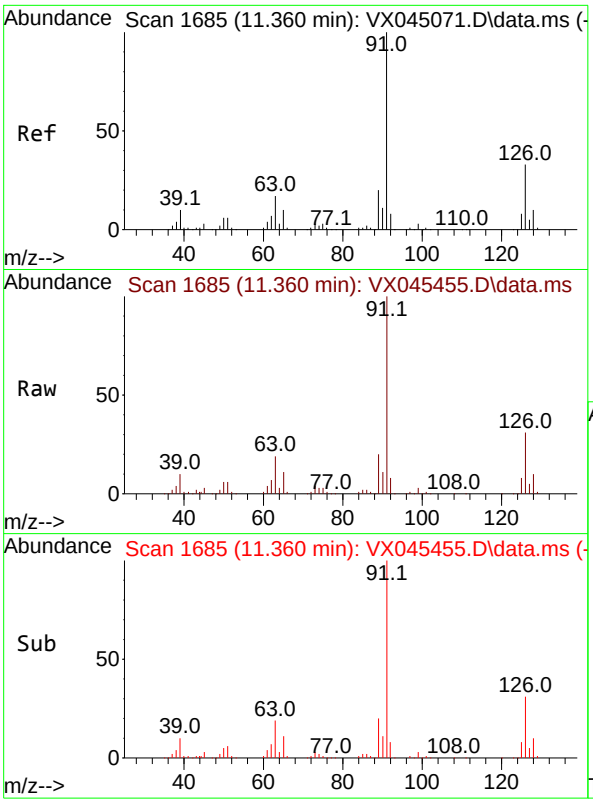


#78
n-propylbenzene
Concen: 57.086 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 91 Resp: 291813

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.2	33.6

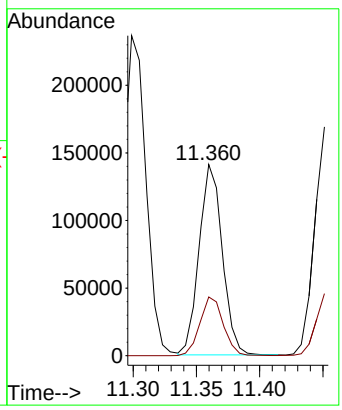




#79
2-Chlorotoluene
Concen: 55.315 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 91 Resp: 18007

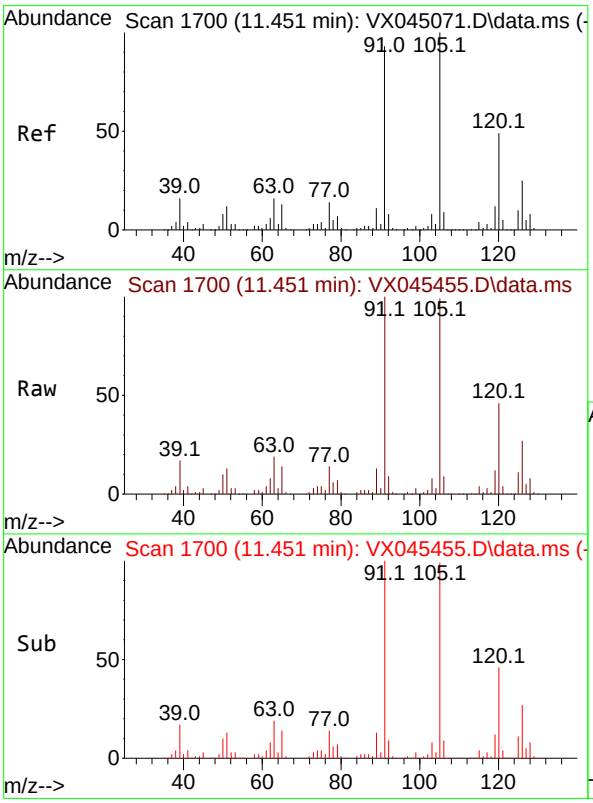
Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

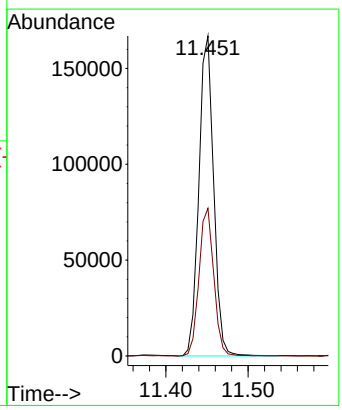
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

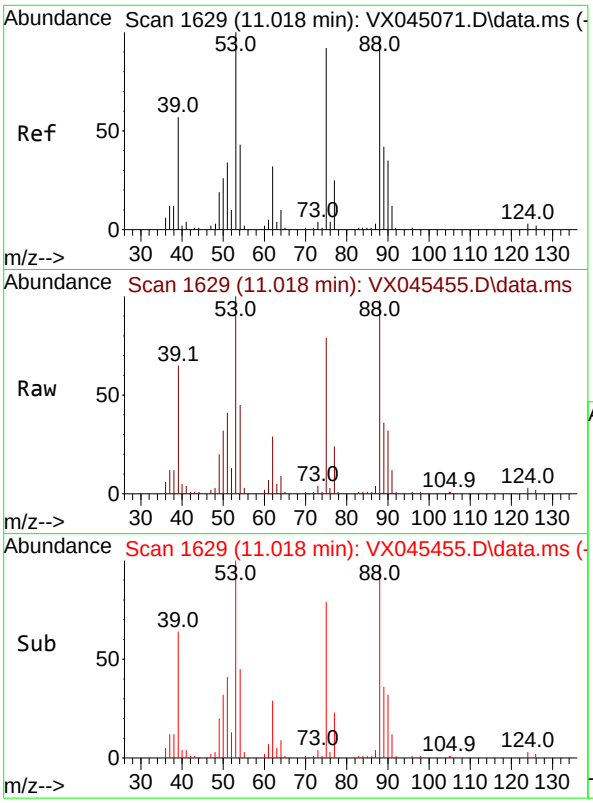


#80
1,3,5-Trimethylbenzene
Concen: 56.895 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:105 Resp: 208176

Ion	Ratio	Lower	Upper
105	100		
120	46.3	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 52.375 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

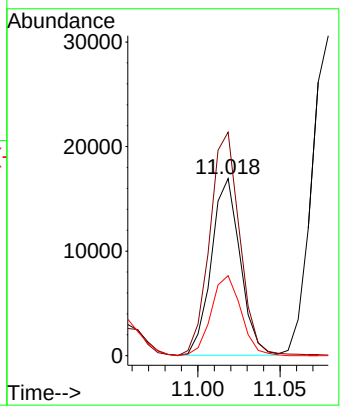
Tgt Ion: 75 Resp: 2065

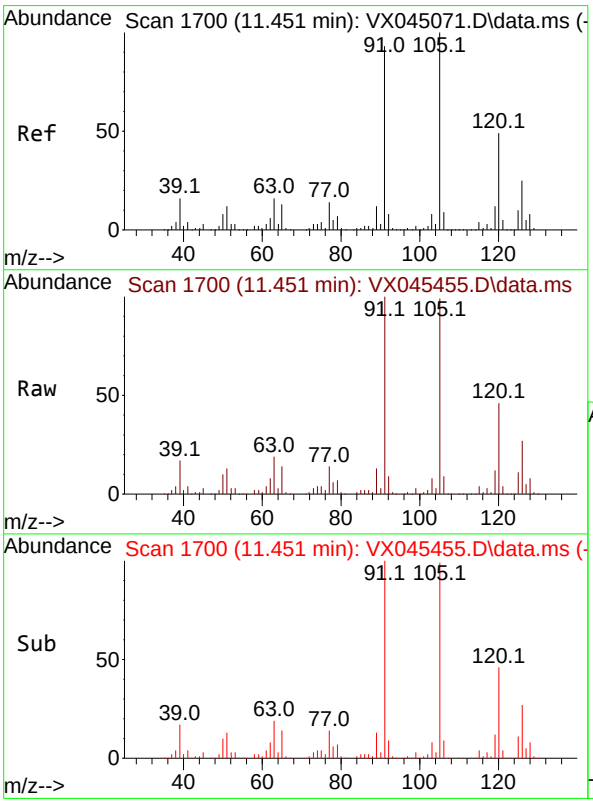
Ion	Ratio	Lower	Upper
75	100		
53	131.6	88.5	132.7
89	46.8	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

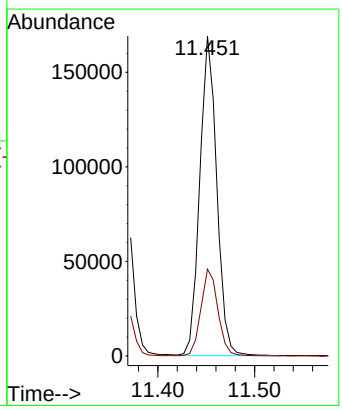


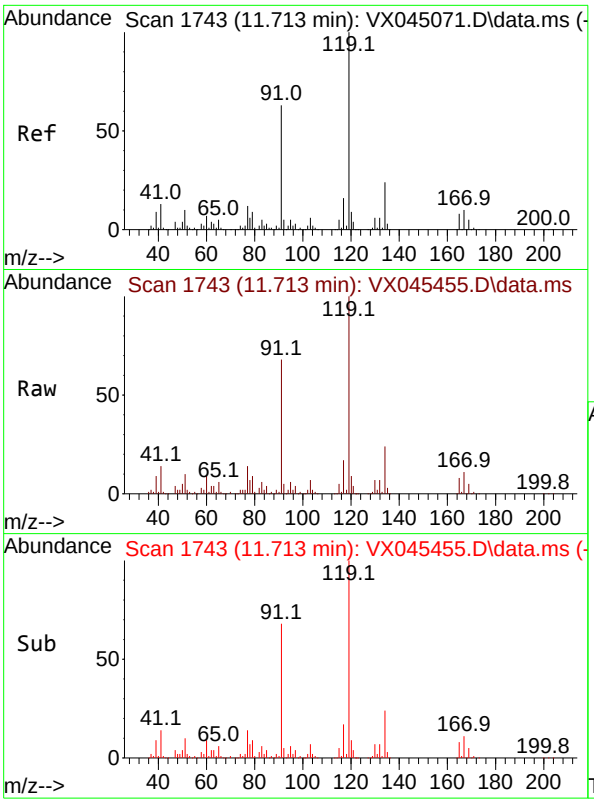


#82
4-Chlorotoluene
Concen: 58.131 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 91 Resp: 206254

Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.1	42.4

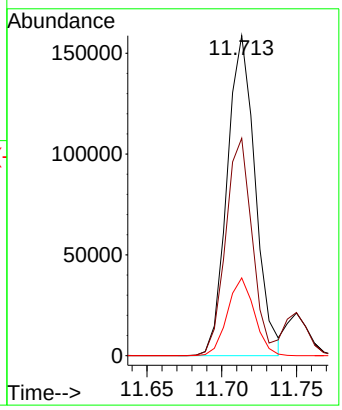




#83
tert-Butylbenzene
Concen: 55.036 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:119 Resp: 20690

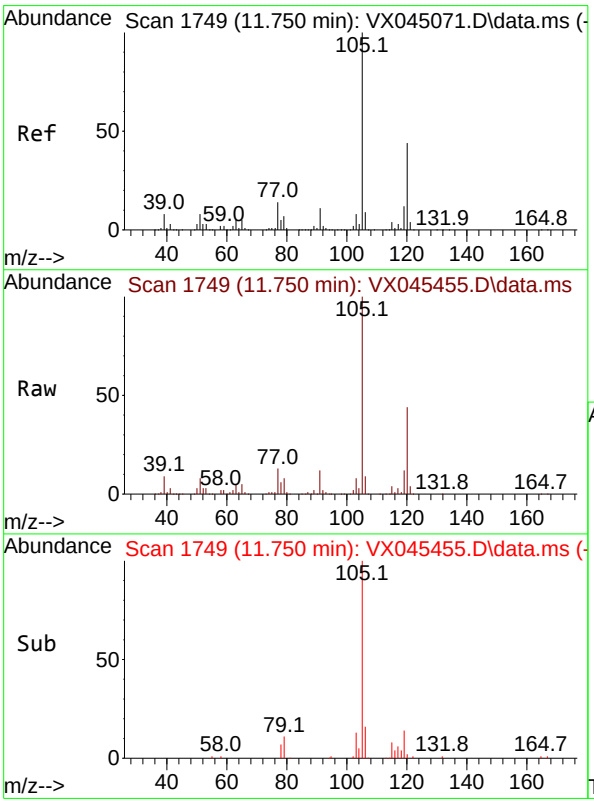
Ion	Ratio	Lower	Upper
119	100		
91	63.9	30.7	92.1
134	23.3	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

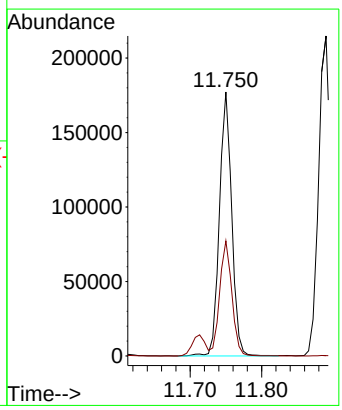
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

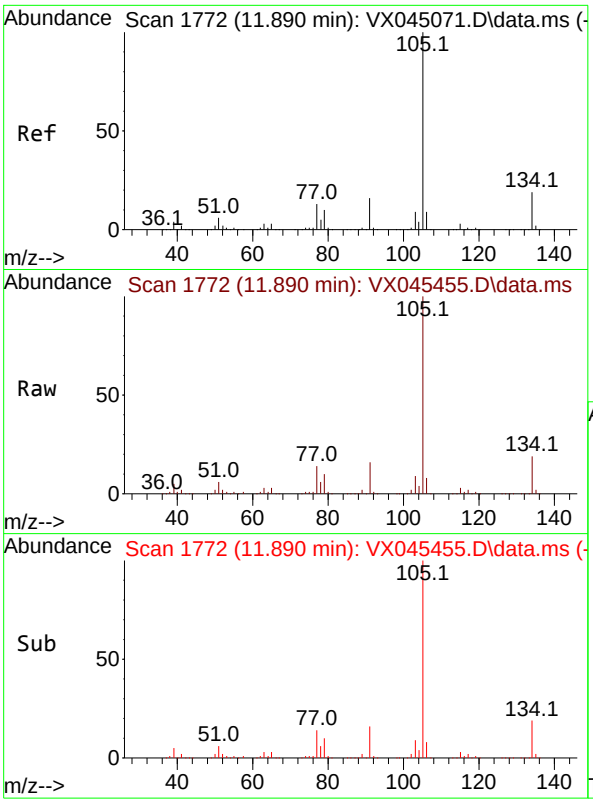


#84
1,2,4-Trimethylbenzene
Concen: 57.518 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:105 Resp: 211760

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1

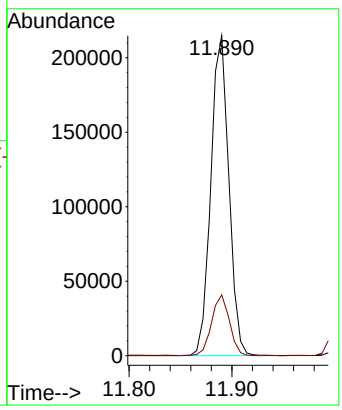




#85
sec-Butylbenzene
Concen: 57.851 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:105 Resp: 26052

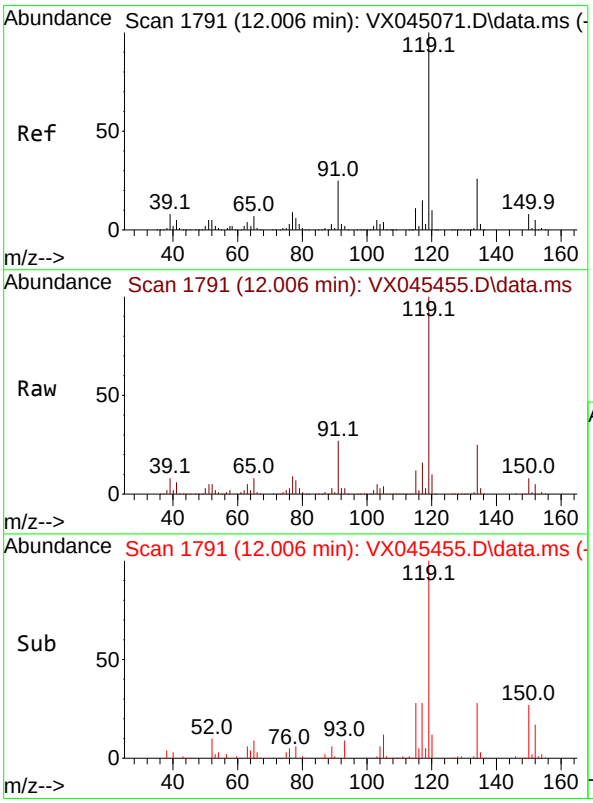
Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

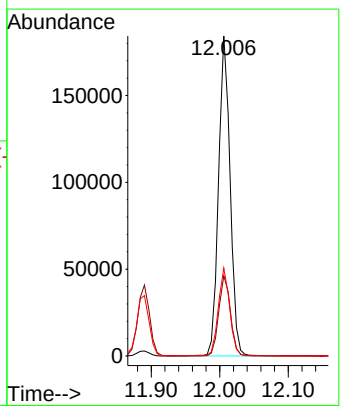
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

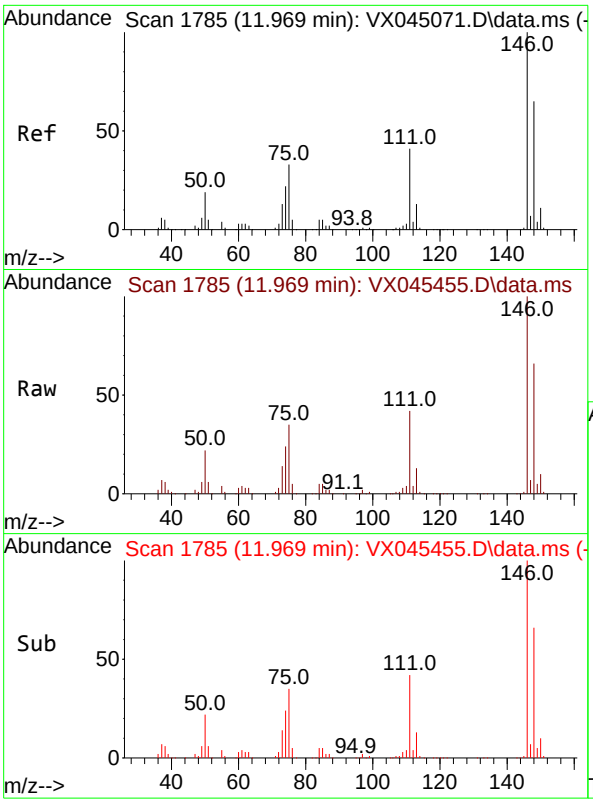


#86
p-Isopropyltoluene
Concen: 58.914 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:119 Resp: 214411

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.9	38.6
91	27.1	12.7	38.0

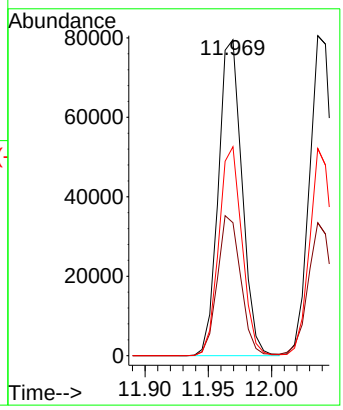




#87
1,3-Dichlorobenzene
Concen: 54.210 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:146 Resp: 10325

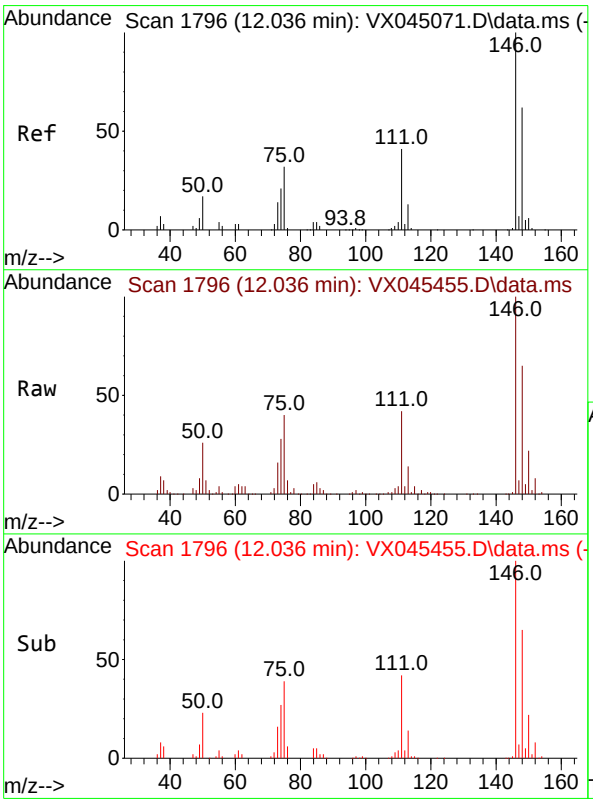
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.1	63.4
148	65.0	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

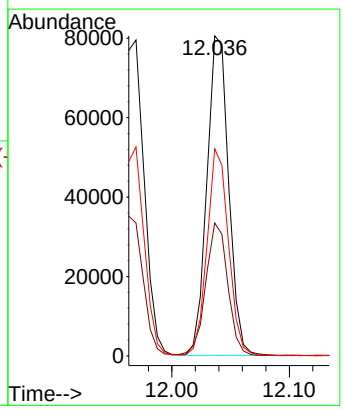
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

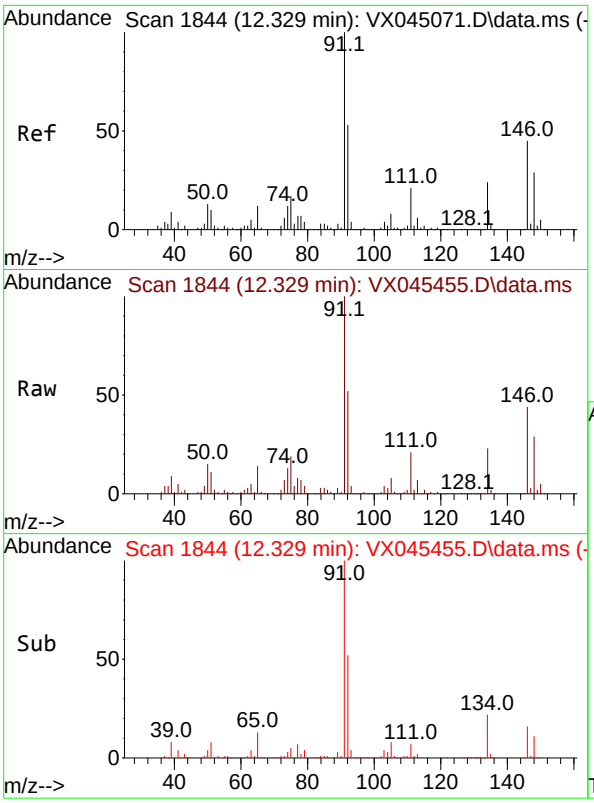


#88
1,4-Dichlorobenzene
Concen: 53.778 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:146 Resp: 103629

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.2	60.5
148	63.8	31.9	95.9

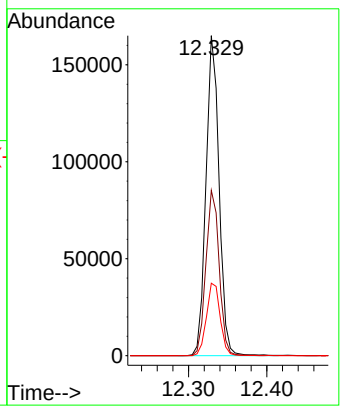




#89
n-Butylbenzene
Concen: 60.909 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 91 Resp: 19091

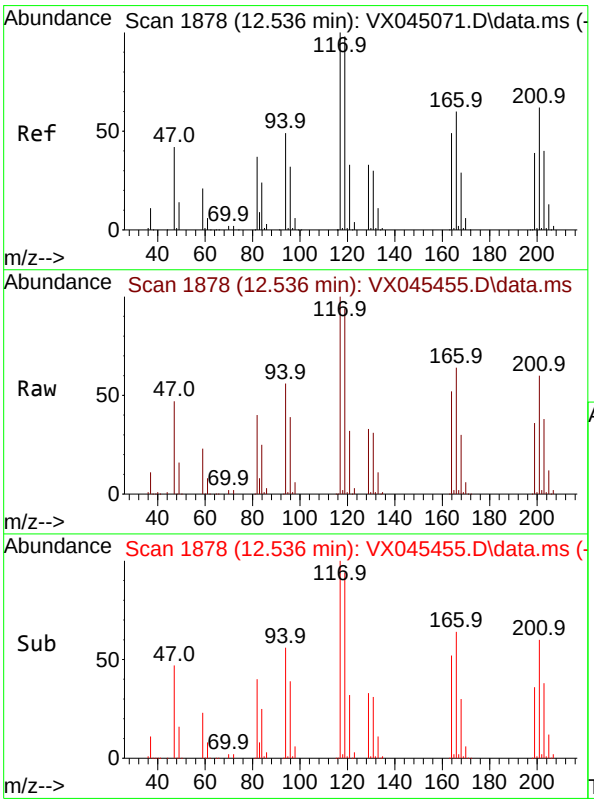
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.7	80.0
134	23.7	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

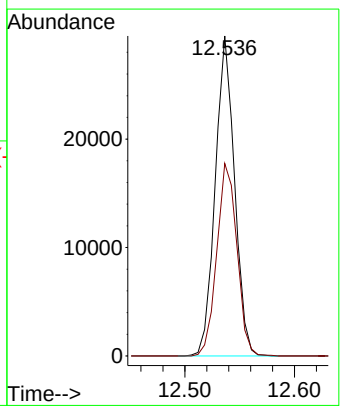
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

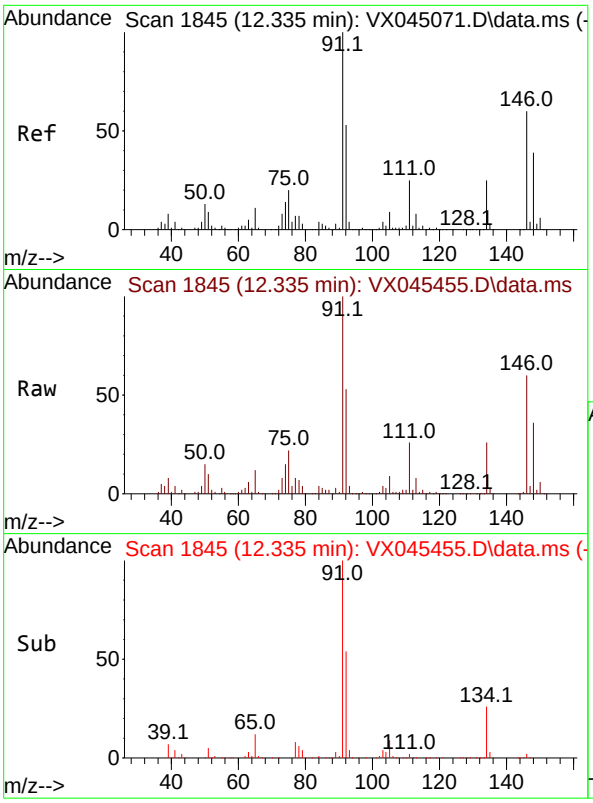


#90
Hexachloroethane
Concen: 54.843 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:117 Resp: 36102

Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.9	95.9

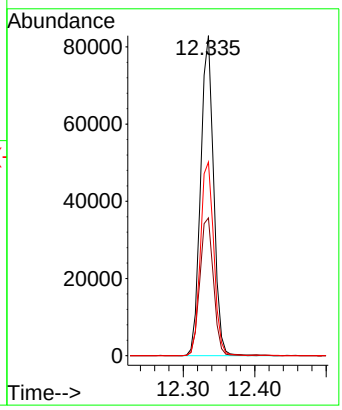




#91
1,2-Dichlorobenzene
Concen: 54.779 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:146 Resp: 10466

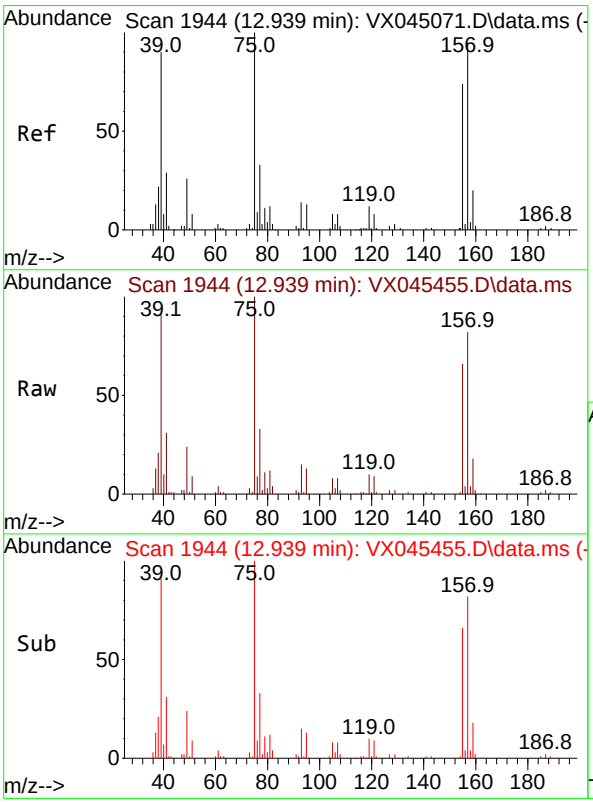
Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.6	65.0
148	62.4	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

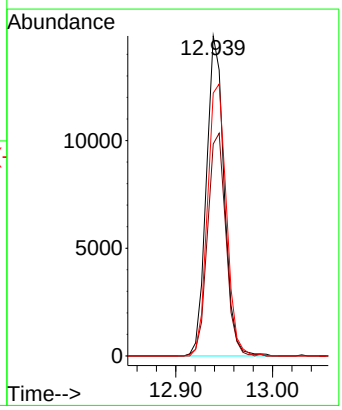
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

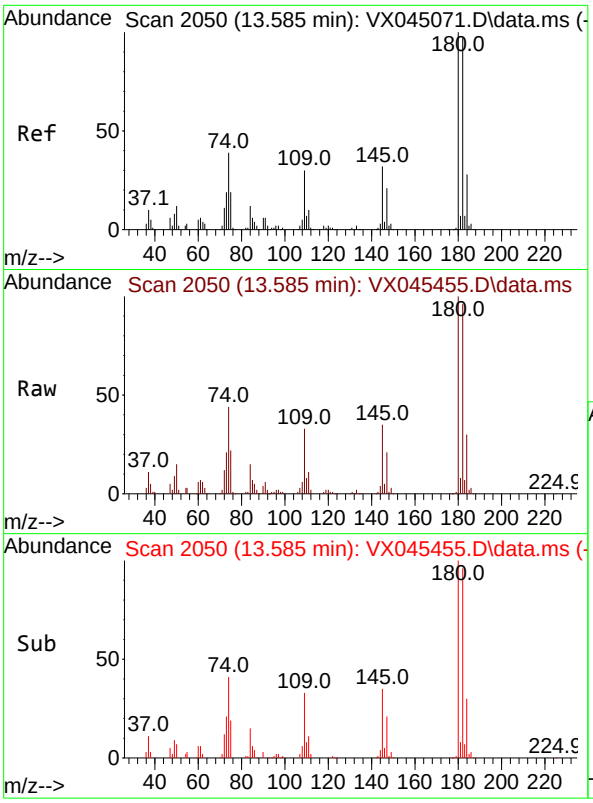


#92
1,2-Dibromo-3-Chloropropane
Concen: 58.867 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 19044

Ion	Ratio	Lower	Upper
75	100		
155	71.5	39.6	118.7
157	89.8	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 55.384 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

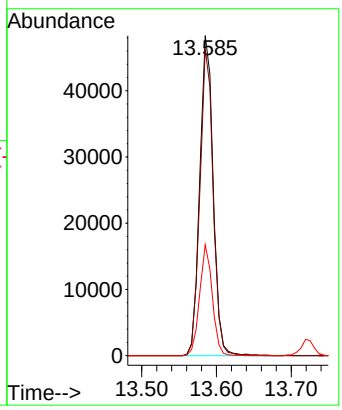
Tgt Ion:180 Resp: 6025

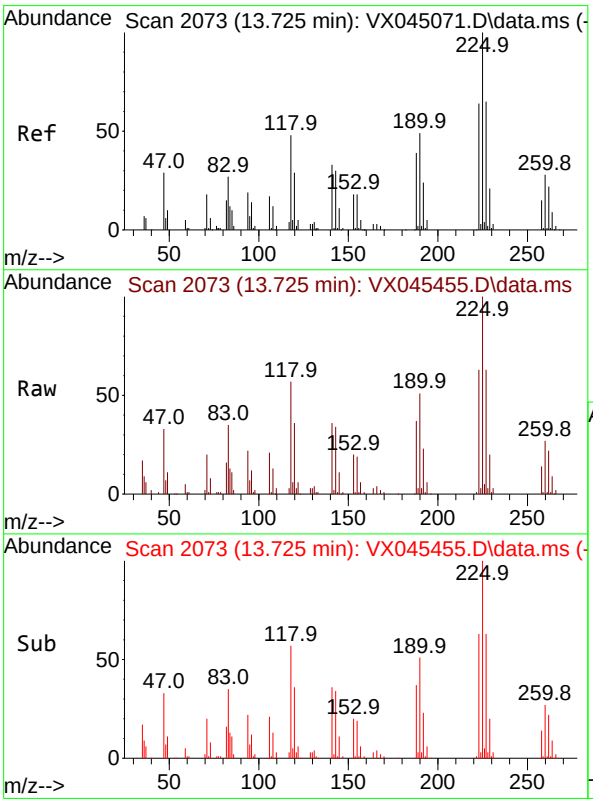
Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.9
145	32.8	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

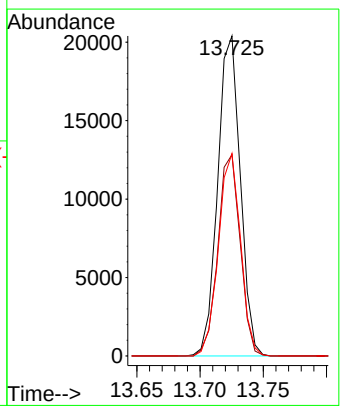


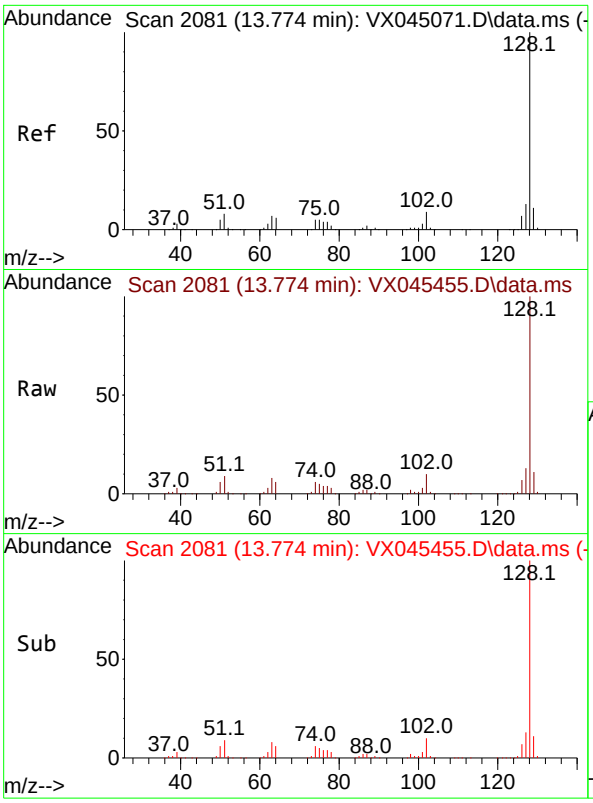


#94
Hexachlorobutadiene
Concen: 56.726 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:225 Resp: 25302

Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.9	95.7
227	61.9	31.4	94.0

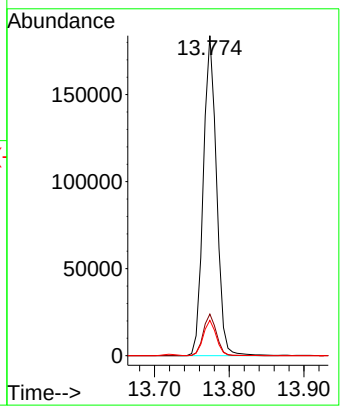




#95
Naphthalene
Concen: 54.121 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:128 Resp: 22622

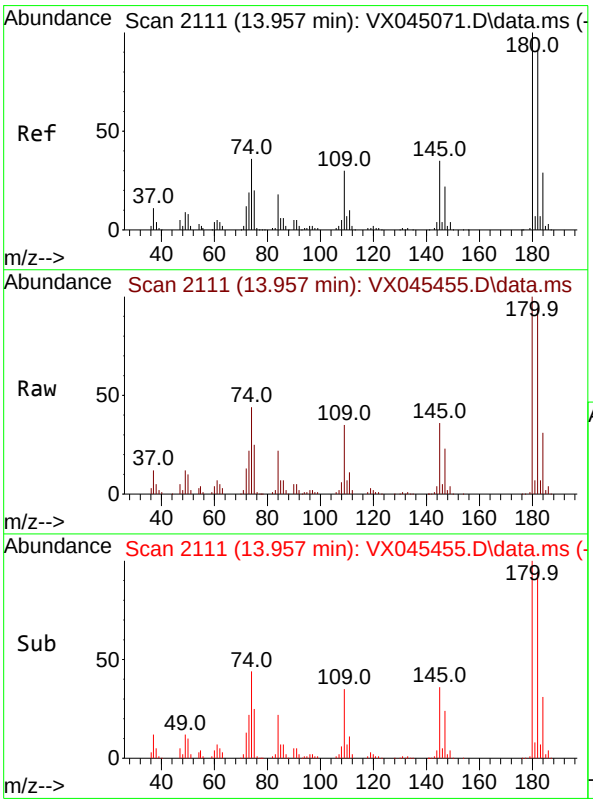
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

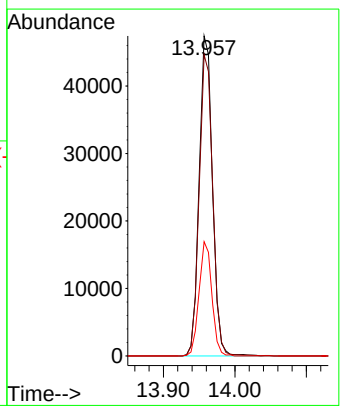
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 53.273 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:180 Resp: 61143

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.6
145	34.5	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	72	0.00
2	T	Dichlorodifluoromethane	0.629	0.819	-30.2#	94	0.00
3	P	Chloromethane	0.770	0.884	-14.8	84	0.00
4	C	Vinyl Chloride	0.764	0.774	-1.3#	73	0.00
5	T	Bromomethane	0.300	0.362	-20.7	89	0.00
6	T	Chloroethane	0.352	0.433	-23.0	84	0.00
7	T	Trichlorofluoromethane	1.011	1.154	-14.1	79	0.00
8	T	Diethyl Ether	0.396	0.380	4.0	71	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.697	-20.0	84	0.00
10	T	Methyl Iodide	0.726	0.901	-24.1	84	0.00
11	T	Tert butyl alcohol	0.151	0.133	11.9	71	0.00
12	CM	1,1-Dichloroethene	0.614	0.684	-11.4#	79	0.00
13	T	Acrolein	0.174	0.192	-10.3	79	0.00
14	T	Allyl chloride	1.094	1.281	-17.1	83	0.00
15	T	Acrylonitrile	0.404	0.429	-6.2	75	0.00
16	T	Acetone	0.369	0.395	-7.0	81	0.00
17	T	Carbon Disulfide	1.636	1.714	-4.8	74	0.00
18	T	Methyl Acetate	0.888	0.929	-4.6	77	0.00
19	T	Methyl tert-butyl Ether	2.061	2.334	-13.2	81	0.00
20	T	Methylene Chloride	0.731	0.785	-7.4	81	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.696	-14.7	79	0.00
22	T	Diisopropyl ether	2.224	2.532	-13.8	79	0.00
23	T	Vinyl Acetate	1.856	2.281	-22.9	83	0.00
24	P	1,1-Dichloroethane	1.247	1.404	-12.6	81	0.00
25	T	2-Butanone	0.555	0.613	-10.5	76	0.00
26	T	2,2-Dichloropropane	0.585	0.874	-49.4#	105	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.825	-10.1	78	0.00
28	T	Bromochloromethane	0.594	0.654	-10.1	78	0.00
29	T	Tetrahydrofuran	0.373	0.392	-5.1	75	0.00
30	C	Chloroform	1.239	1.426	-15.1#	82	0.00
31	T	Cyclohexane	1.082	1.254	-15.9	81	0.00
32	T	1,1,1-Trichloroethane	1.000	1.219	-21.9	86	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.954	-20.0	91	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	72	0.00
35	S	Dibromofluoromethane	0.334	0.375	-12.3	82	0.00
36	T	1,1-Dichloropropene	0.459	0.531	-15.7	82	0.00
37	T	Ethyl Acetate	0.591	0.655	-10.8	78	0.00
38	T	Carbon Tetrachloride	0.465	0.566	-21.7	87	0.00
39	T	Methylcyclohexane	0.549	0.662	-20.6	82	0.00
40	TM	Benzene	1.448	1.606	-10.9	77	0.00
41	T	Methacrylonitrile	0.319	0.369	-15.7	78	0.00
42	TM	1,2-Dichloroethane	0.521	0.655	-25.7#	90	0.00
43	T	Isopropyl Acetate	0.874	1.025	-17.3	80	0.00
44	TM	Trichloroethene	0.340	0.376	-10.6	80	0.00
45	C	1,2-Dichloropropane	0.372	0.410	-10.2#	80	0.00
46	T	Dibromomethane	0.263	0.312	-18.6	84	0.00
47	T	Bromodichloromethane	0.516	0.612	-18.6	84	0.00
48	T	Methyl methacrylate	0.438	0.539	-23.1	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	71	0.00
50	S	Toluene-d8	1.212	1.279	-5.5	76	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.701	-19.4	83	0.00
52	CM	Toluene	0.849	0.978	-15.2#	79	0.00
53	T	t-1,3-Dichloropropene	0.431	0.530	-23.0	82	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.608	-20.9	82	0.00
55	T	1,1,2-Trichloroethane	0.350	0.391	-11.7	79	0.00
56	T	Ethyl methacrylate	0.532	0.658	-23.7	83	0.00
57	T	1,3-Dichloropropane	0.605	0.692	-14.4	81	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.332	-28.2#	85	0.00
59	T	2-Hexanone	0.425	0.525	-23.5	85	0.00
60	T	Dibromochloromethane	0.366	0.438	-19.7	82	0.00
61	T	1,2-Dibromoethane	0.349	0.404	-15.8	82	0.00
62	S	4-Bromofluorobenzene	0.402	0.501	-24.6	90	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	75	0.00
64	T	Tetrachloroethene	0.320	0.359	-12.2	82	0.00
65	PM	Chlorobenzene	1.058	1.173	-10.9	80	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.399	-13.4	84	0.00
67	C	Ethyl Benzene	1.843	2.140	-16.1#	82	0.00
68	T	m/p-Xylenes	0.675	0.775	-14.8	80	0.00
69	T	o-Xylene	0.681	0.774	-13.7	82	0.00
70	T	Styrene	1.101	1.315	-19.4	83	0.00
71	P	Bromoform	0.266	0.310	-16.5	84	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
73	T	Isopropylbenzene	3.903	4.278	-9.6	84	0.00
74	T	N-amyl acetate	1.831	2.205	-20.4	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.479	-3.3	85	0.00
76	T	1,2,3-Trichloropropane	1.164	1.253	-7.6	89	0.00
77	T	Bromobenzene	0.921	0.989	-7.4	86	0.00
78	T	n-propylbenzene	4.409	5.033	-14.2	85	0.00
79	T	2-Chlorotoluene	2.808	3.106	-10.6	88	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.591	-13.8	86	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.356	-4.7	86	0.00
82	T	4-Chlorotoluene	3.060	3.558	-16.3	89	0.00
83	T	tert-Butylbenzene	3.242	3.569	-10.1	86	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.653	-15.1	88	0.00
85	T	sec-Butylbenzene	3.884	4.494	-15.7	87	0.00
86	T	p-Isopropyltoluene	3.139	3.698	-17.8	88	0.00
87	T	1,3-Dichlorobenzene	1.643	1.781	-8.4	87	0.00
88	T	1,4-Dichlorobenzene	1.662	1.787	-7.5	86	0.00
89	T	n-Butylbenzene	2.703	3.293	-21.8	89	0.00
90	T	Hexachloroethane	0.568	0.623	-9.7	84	0.00
91	T	1,2-Dichlorobenzene	1.648	1.805	-9.5	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.328	-17.6	92	0.00
93	T	1,2,4-Trichlorobenzene	0.938	1.039	-10.8	84	0.00
94	T	Hexachlorobutadiene	0.385	0.436	-13.2	91	0.00
95	T	Naphthalene	3.605	3.902	-8.2	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.055	-6.6	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	72	0.00
2	T	Dichlorodifluoromethane	50.000	65.042	-30.1#	94	0.00
3	P	Chloromethane	50.000	57.417	-14.8	84	0.00
4	C	Vinyl Chloride	50.000	50.657	-1.3#	73	0.00
5	T	Bromomethane	50.000	60.177	-20.4	89	0.00
6	T	Chloroethane	50.000	61.459	-22.9	84	0.00
7	T	Trichlorofluoromethane	50.000	57.053	-14.1	79	0.00
8	T	Diethyl Ether	50.000	48.076	3.8	71	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	59.961	-19.9	84	0.00
10	T	Methyl Iodide	50.000	61.999	-24.0	84	0.00
11	T	Tert butyl alcohol	250.000	220.637	11.7	71	0.00
12	CM	1,1-Dichloroethene	50.000	55.640	-11.3#	79	0.00
13	T	Acrolein	250.000	274.979	-10.0	79	0.00
14	T	Allyl chloride	50.000	58.584	-17.2	83	0.00
15	T	Acrylonitrile	250.000	265.855	-6.3	75	0.00
16	T	Acetone	250.000	267.586	-7.0	81	0.00
17	T	Carbon Disulfide	50.000	52.381	-4.8	74	0.00
18	T	Methyl Acetate	50.000	52.322	-4.6	77	0.00
19	T	Methyl tert-butyl Ether	50.000	56.621	-13.2	81	0.00
20	T	Methylene Chloride	50.000	53.728	-7.5	81	0.00
21	T	trans-1,2-Dichloroethene	50.000	57.338	-14.7	79	0.00
22	T	Diisopropyl ether	50.000	56.926	-13.9	79	0.00
23	T	Vinyl Acetate	250.000	307.283	-22.9	83	0.00
24	P	1,1-Dichloroethane	50.000	56.314	-12.6	81	0.00
25	T	2-Butanone	250.000	275.806	-10.3	76	0.00
26	T	2,2-Dichloropropane	50.000	74.708	-49.4#	105	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.084	-10.2	78	0.00
28	T	Bromochloromethane	50.000	55.038	-10.1	78	0.00
29	T	Tetrahydrofuran	250.000	262.606	-5.0	75	0.00
30	C	Chloroform	50.000	57.585	-15.2#	82	0.00
31	T	Cyclohexane	50.000	57.952	-15.9	81	0.00
32	T	1,1,1-Trichloroethane	50.000	60.925	-21.8	86	0.00
33	S	1,2-Dichloroethane-d4	50.000	59.981	-20.0	91	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	72	0.00
35	S	Dibromofluoromethane	50.000	56.066	-12.1	82	0.00
36	T	1,1-Dichloropropene	50.000	57.863	-15.7	82	0.00
37	T	Ethyl Acetate	50.000	55.438	-10.9	78	0.00
38	T	Carbon Tetrachloride	50.000	60.748	-21.5	87	0.00
39	T	Methylcyclohexane	50.000	60.220	-20.4	82	0.00
40	TM	Benzene	50.000	55.448	-10.9	77	0.00
41	T	Methacrylonitrile	50.000	57.777	-15.6	78	0.00
42	TM	1,2-Dichloroethane	50.000	62.788	-25.6#	90	0.00
43	T	Isopropyl Acetate	50.000	58.665	-17.3	80	0.00
44	TM	Trichloroethene	50.000	55.263	-10.5	80	0.00
45	C	1,2-Dichloropropane	50.000	55.105	-10.2#	80	0.00
46	T	Dibromomethane	50.000	59.321	-18.6	84	0.00
47	T	Bromodichloromethane	50.000	59.321	-18.6	84	0.00
48	T	Methyl methacrylate	50.000	61.434	-22.9	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1006.555	-0.7	71	0.00
50	S	Toluene-d8	50.000	52.766	-5.5	76	0.00
51	T	4-Methyl-2-Pentanone	250.000	298.691	-19.5	83	0.00
52	CM	Toluene	50.000	57.535	-15.1#	79	0.00
53	T	t-1,3-Dichloropropene	50.000	61.389	-22.8	82	0.00
54	T	cis-1,3-Dichloropropene	50.000	60.428	-20.9	82	0.00
55	T	1,1,2-Trichloroethane	50.000	55.917	-11.8	79	0.00
56	T	Ethyl methacrylate	50.000	61.863	-23.7	83	0.00
57	T	1,3-Dichloropropane	50.000	57.147	-14.3	81	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	320.494	-28.2#	85	0.00
59	T	2-Hexanone	250.000	308.540	-23.4	85	0.00
60	T	Dibromochloromethane	50.000	59.912	-19.8	82	0.00
61	T	1,2-Dibromoethane	50.000	57.791	-15.6	82	0.00
62	S	4-Bromofluorobenzene	50.000	62.340	-24.7	90	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	75	0.00
64	T	Tetrachloroethene	50.000	56.012	-12.0	82	0.00
65	PM	Chlorobenzene	50.000	55.448	-10.9	80	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.581	-13.2	84	0.00
67	C	Ethyl Benzene	50.000	58.029	-16.1#	82	0.00
68	T	m/p-Xylenes	100.000	114.904	-14.9	80	0.00
69	T	o-Xylene	50.000	56.852	-13.7	82	0.00
70	T	Styrene	50.000	59.715	-19.4	83	0.00
71	P	Bromoform	50.000	58.263	-16.5	84	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	81	0.00
73	T	Isopropylbenzene	50.000	54.809	-9.6	84	0.00
74	T	N-amyl acetate	50.000	60.199	-20.4	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.622	-3.2	85	0.00
76	T	1,2,3-Trichloropropane	50.000	53.846	-7.7	89	0.00
77	T	Bromobenzene	50.000	53.713	-7.4	86	0.00
78	T	n-propylbenzene	50.000	57.086	-14.2	85	0.00
79	T	2-Chlorotoluene	50.000	55.315	-10.6	88	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.895	-13.8	86	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.375	-4.8	86	0.00
82	T	4-Chlorotoluene	50.000	58.131	-16.3	89	0.00
83	T	tert-Butylbenzene	50.000	55.036	-10.1	86	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.518	-15.0	88	0.00
85	T	sec-Butylbenzene	50.000	57.851	-15.7	87	0.00
86	T	p-Isopropyltoluene	50.000	58.914	-17.8	88	0.00
87	T	1,3-Dichlorobenzene	50.000	54.210	-8.4	87	0.00
88	T	1,4-Dichlorobenzene	50.000	53.778	-7.6	86	0.00
89	T	n-Butylbenzene	50.000	60.909	-21.8	89	0.00
90	T	Hexachloroethane	50.000	54.843	-9.7	84	0.00
91	T	1,2-Dichlorobenzene	50.000	54.779	-9.6	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	58.867	-17.7	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	55.384	-10.8	84	0.00
94	T	Hexachlorobutadiene	50.000	56.726	-13.5	91	0.00
95	T	Naphthalene	50.000	54.121	-8.2	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	53.273	-6.5	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/26/2025 10:03

Lab File ID: VX045457.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.797		26.71	20
Chloromethane	0.770	0.767	0.1	-0.39	20
Vinyl Chloride	0.764	0.728		-4.71	20
Bromomethane	0.300	0.338		12.67	20
Chloroethane	0.352	0.394		11.93	20
Trichlorofluoromethane	1.012	1.079		6.62	20
1,1,2-Trichlorotrifluoroethane	0.581	0.681		17.21	20
1,1-Dichloroethene	0.614	0.637		3.75	20
Acetone	0.369	0.430		16.53	20
Carbon Disulfide	1.636	1.630		-0.37	20
Methyl tert-butyl Ether	2.061	2.084		1.12	20
Methyl Acetate	0.888	0.831		-6.42	20
Methylene Chloride	0.731	0.719		-1.64	20
trans-1,2-Dichloroethene	0.607	0.640		5.44	20
1,1-Dichloroethane	1.247	1.286	0.1	3.13	20
Cyclohexane	1.082	1.149		6.19	20
2-Butanone	0.555	0.589		6.13	20
Carbon Tetrachloride	0.465	0.551		18.5	20
cis-1,2-Dichloroethene	0.749	0.757		1.07	20
Bromochloromethane	0.594	0.619		4.21	20
Chloroform	1.239	1.300		4.92	20
1,1,1-Trichloroethane	1.000	1.097		9.7	20
Methylcyclohexane	0.549	0.665		21.13	20
Benzene	1.448	1.526		5.39	20
1,2-Dichloroethane	0.521	0.613		17.66	20
Trichloroethene	0.340	0.363		6.76	20
1,2-Dichloropropane	0.372	0.391		5.11	20
Bromodichloromethane	0.516	0.597		15.7	20
4-Methyl-2-Pentanone	0.587	0.648		10.39	20
Toluene	0.849	0.930		9.54	20
t-1,3-Dichloropropene	0.431	0.522		21.11	20
cis-1,3-Dichloropropene	0.503	0.600		19.28	20
1,1,2-Trichloroethane	0.350	0.371		6	20
2-Hexanone	0.425	0.477		12.23	20
Dibromochloromethane	0.366	0.419		14.48	20
1,2-Dibromoethane	0.349	0.386		10.6	20
Tetrachloroethene	0.320	0.355		10.94	20
Chlorobenzene	1.058	1.132	0.3	6.99	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/26/2025 10:03

Lab File ID: VX045457.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	2.063		11.94	20
m/p-Xylenes	0.675	0.754		11.7	20
o-Xylene	0.681	0.732		7.49	20
Styrene	1.101	1.239		12.53	20
Bromoform	0.266	0.303	0.1	13.91	20
Isopropylbenzene	3.903	4.277		9.58	20
1,1,2,2-Tetrachloroethane	1.432	1.413	0.3	-1.33	20
1,3-Dichlorobenzene	1.643	1.715		4.38	20
1,4-Dichlorobenzene	1.662	1.707		2.71	20
1,2-Dichlorobenzene	1.648	1.684		2.18	20
1,2-Dibromo-3-Chloropropane	0.279	0.313		12.19	20
1,2,4-Trichlorobenzene	0.938	0.998		6.4	20
1,2,3-Trichlorobenzene	0.990	1.018		2.83	20
1,2-Dichloroethane-d4	0.795	0.847		6.54	20
Dibromofluoromethane	0.334	0.361		8.08	20
Toluene-d8	1.212	1.218		0.5	20
4-Bromofluorobenzene	0.402	0.444		10.45	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	91964	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	157025	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	77877	53.238	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.480%			
35) Dibromofluoromethane	5.373	113	56697	53.998	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.000%			
50) Toluene-d8	8.641	98	191234	50.238	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.480%			
62) 4-Bromofluorobenzene	11.079	95	69676	55.238	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	73314	63.332	ug/l	96
3) Chloromethane	1.307	50	70570	49.814	ug/l	95
4) Vinyl Chloride	1.374	62	66907	47.609	ug/l	97
5) Bromomethane	1.593	94	31086	56.268	ug/l	98
6) Chloroethane	1.666	64	36275	55.960	ug/l	96
7) Trichlorofluoromethane	1.868	101	99236	53.340	ug/l	99
8) Diethyl Ether	2.130	74	31961	43.921	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.313	101	62646	58.611	ug/l	98
10) Methyl Iodide	2.441	142	73438	54.980	ug/l	92
11) Tert butyl alcohol	2.977	59	53162	191.864	ug/l	96
12) 1,1-Dichloroethene	2.307	96	58592	51.849	ug/l	99
13) Acrolein	2.233	56	88940	277.678	ug/l	99
14) Allyl chloride	2.654	41	109634	54.503	ug/l	93
15) Acrylonitrile	3.063	53	185146	249.317	ug/l	99
16) Acetone	2.380	43	197870	291.541	ug/l	97
17) Carbon Disulfide	2.502	76	149890	49.800	ug/l	97
18) Methyl Acetate	2.703	43	76403	46.794	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	191625	50.544	ug/l	97
20) Methylene Chloride	2.782	84	66154	49.206	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	58856	52.719	ug/l	97
22) Diisopropyl ether	3.757	45	210362	51.421	ug/l	92
23) Vinyl Acetate	3.715	43	941179	275.687	ug/l	98
24) 1,1-Dichloroethane	3.599	63	118227	51.567	ug/l	99
25) 2-Butanone	4.550	43	270734	265.005	ug/l	97
26) 2,2-Dichloropropane	4.465	77	84239	78.333	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	69593	50.497	ug/l	91
28) Bromochloromethane	4.891	49	56942	52.106	ug/l	96
29) Tetrahydrofuran	5.001	42	167731	244.481	ug/l	99
30) Chloroform	5.080	83	119559	52.483	ug/l	100
31) Cyclohexane	5.458	56	105662	53.091	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	100867	54.822	ug/l	98
36) 1,1-Dichloropropene	5.678	75	79534	55.234	ug/l	100
37) Ethyl Acetate	4.709	43	100294	54.053	ug/l	99
38) Carbon Tetrachloride	5.666	117	86484	59.159	ug/l	98
39) Methylcyclohexane	7.373	83	104410	60.514	ug/l	98
40) Benzene	6.025	78	239569	52.687	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	55124	54.944	ug/l		97
42) 1,2-Dichloroethane	6.074	62	96212	58.759	ug/l		97
43) Isopropyl Acetate	6.336	43	154279	56.230	ug/l		98
44) Trichloroethene	7.117	130	57002	53.389	ug/l		99
45) 1,2-Dichloropropane	7.428	63	61406	52.525	ug/l		94
46) Dibromomethane	7.574	93	46702	56.518	ug/l		96
47) Bromodichloromethane	7.818	83	93673	57.794	ug/l		98
48) Methyl methacrylate	7.690	41	78351	56.921	ug/l		94
49) 1,4-Dioxane	7.659	88	27963	963.058	ug/l		94
51) 4-Methyl-2-Pentanone	8.568	43	509094	276.344	ug/l		99
52) Toluene	8.714	92	145998	54.725	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	82038	60.544	ug/l		95
54) cis-1,3-Dichloropropene	8.360	75	94158	59.591	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	58300	53.083	ug/l		99
56) Ethyl methacrylate	9.116	69	94629	56.682	ug/l		93
57) 1,3-Dichloropropane	9.305	76	102224	53.783	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	235219	288.833	ug/l		99
59) 2-Hexanone	9.427	43	374413	280.504	ug/l		97
60) Dibromochloromethane	9.519	129	65721	57.231	ug/l		98
61) 1,2-Dibromoethane	9.604	107	60652	55.319	ug/l		97
64) Tetrachloroethene	9.269	164	48945	55.374	ug/l		96
65) Chlorobenzene	10.073	112	156208	53.491	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	52947	54.444	ug/l		98
67) Ethyl Benzene	10.189	91	284774	55.966	ug/l		100
68) m/p-Xylenes	10.299	106	208248	111.797	ug/l		96
69) o-Xylene	10.640	106	101072	53.800	ug/l		96
70) Styrene	10.653	104	171021	56.260	ug/l		97
71) Bromoform	10.799	173	41772	56.960	ug/l	#	98
73) Isopropylbenzene	10.957	105	269678	54.796	ug/l		99
74) N-amyl acetate	10.842	43	128614	55.694	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	89098	49.335	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	76552m	52.163	ug/l		
77) Bromobenzene	11.195	156	59631	51.354	ug/l		94
78) n-propylbenzene	11.299	91	317882	57.179	ug/l		99
79) 2-Chlorotoluene	11.360	91	187848	53.055	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	222923	56.020	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	24810	57.854	ug/l		89
82) 4-Chlorotoluene	11.451	91	216854	56.197	ug/l		98
83) tert-Butylbenzene	11.713	119	221337	54.134	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	222016	55.448	ug/l		98
85) sec-Butylbenzene	11.890	105	281382	57.451	ug/l		98
86) p-Isopropyltoluene	12.006	119	230228	58.167	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	108155	52.211	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	107631	51.357	ug/l		98
89) n-Butylbenzene	12.329	91	207819	60.962	ug/l		99
90) Hexachloroethane	12.536	117	40417	56.455	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	106186	51.100	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19761	56.165	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	62951	53.203	ug/l		98
94) Hexachlorobutadiene	13.719	225	27769	57.244	ug/l		97
95) Naphthalene	13.774	128	232852	51.221	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	64177	51.414	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

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

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

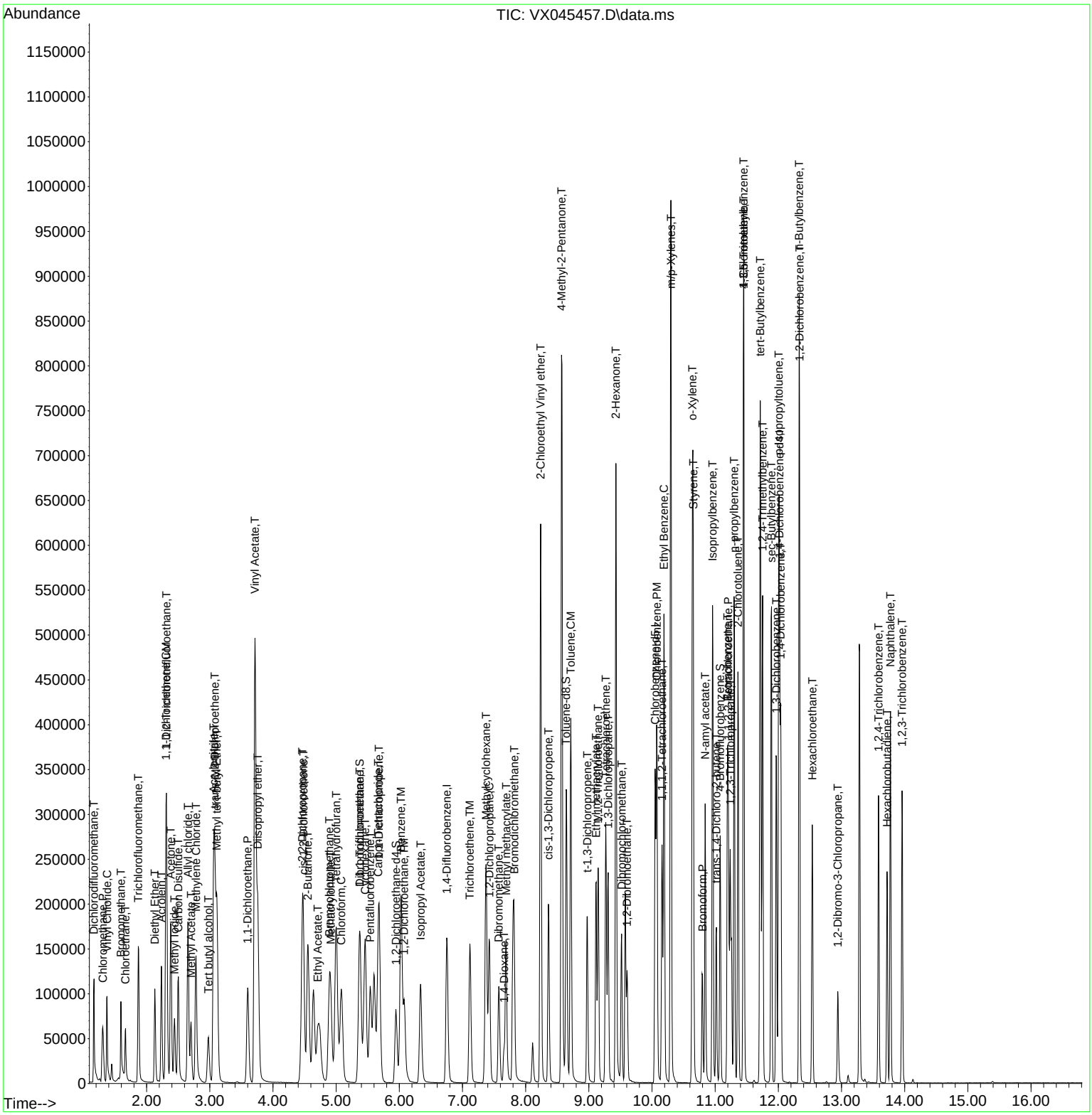
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

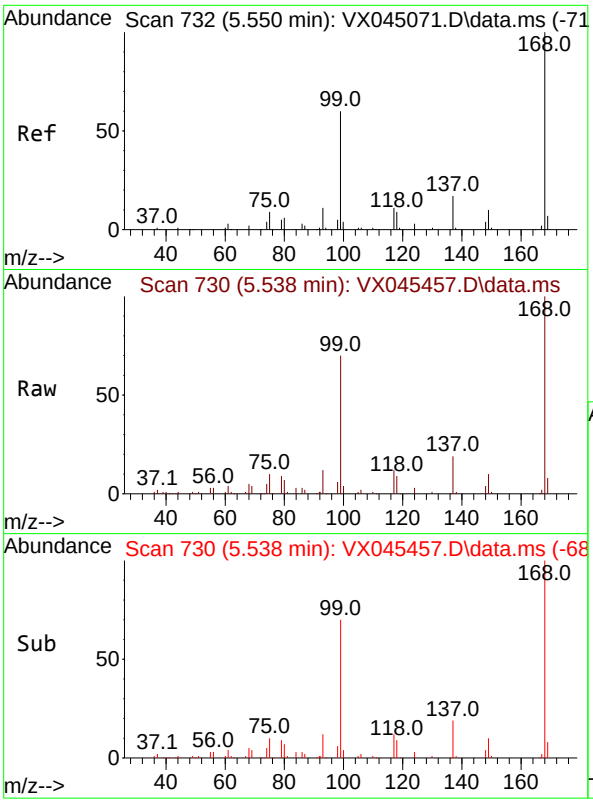
Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

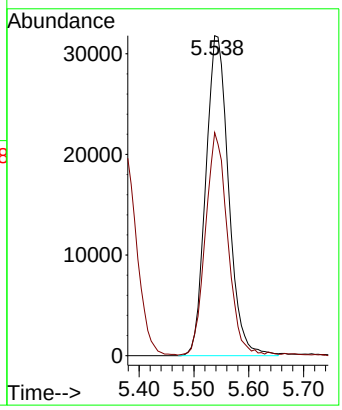




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:168 Resp: 91964

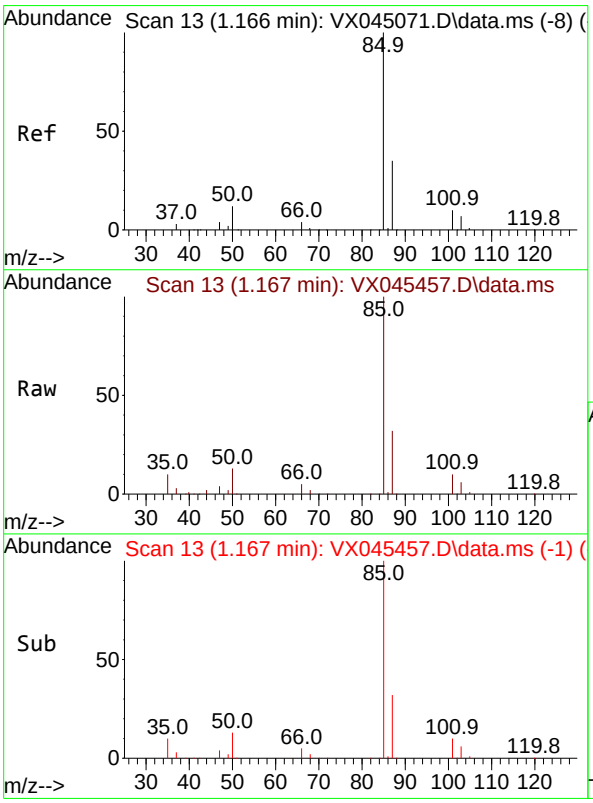
Ion	Ratio	Lower	Upper
168	100		
99	69.5	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

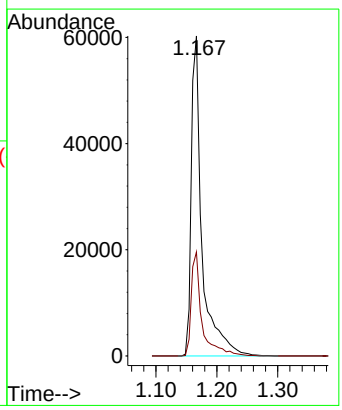
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

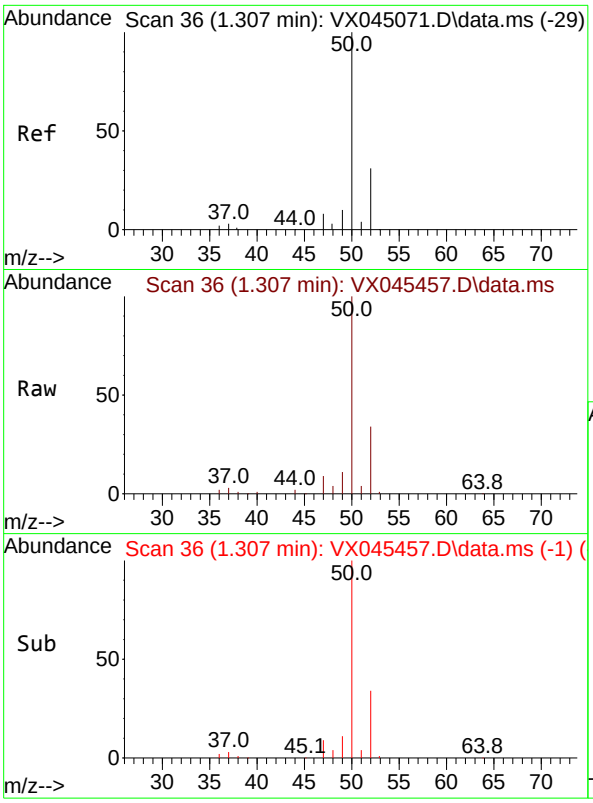


#2
Dichlorodifluoromethane
Concen: 63.332 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 85 Resp: 73314

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.4	52.3

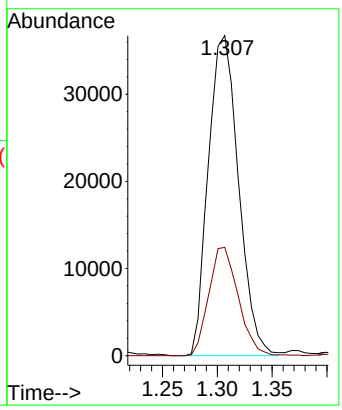




#3
Chloromethane
Concen: 49.814 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 50 Resp: 7057

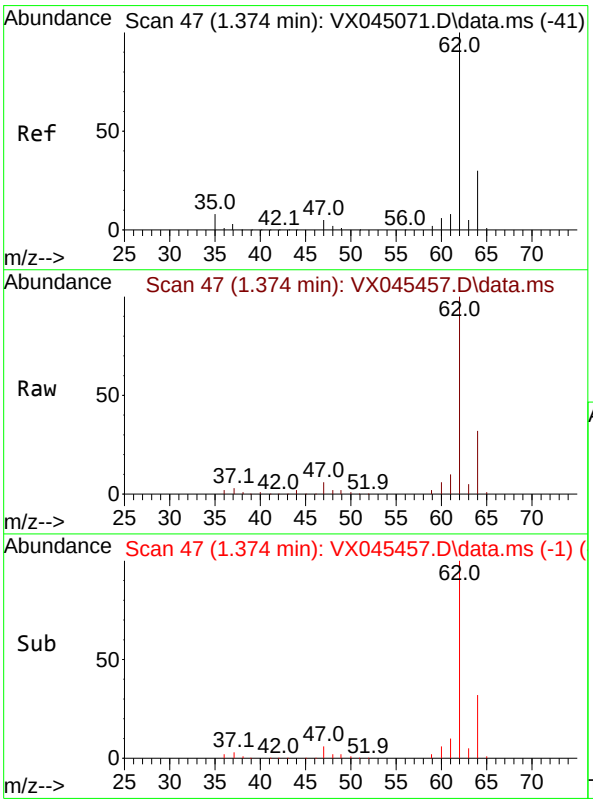
Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

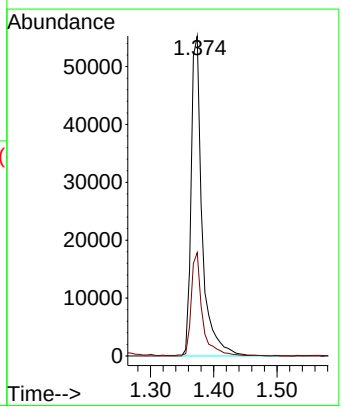
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

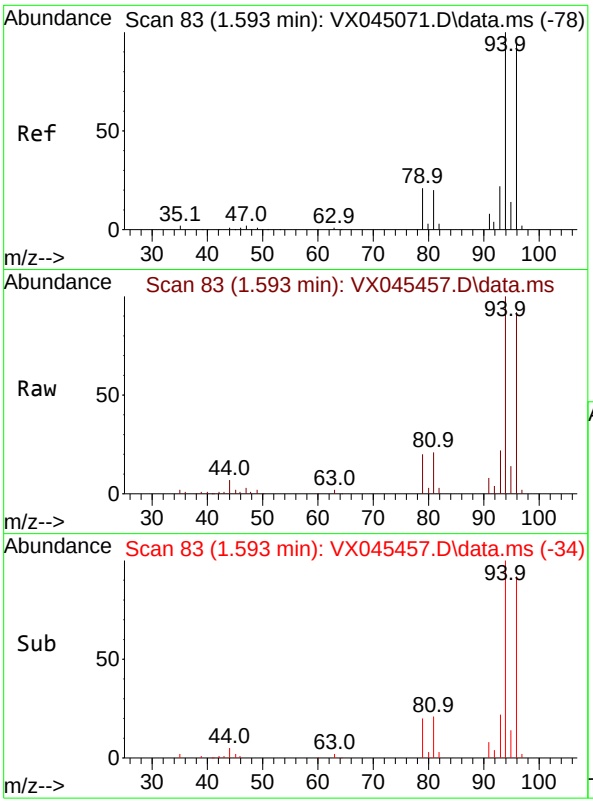


#4
Vinyl Chloride
Concen: 47.609 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 62 Resp: 66907

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.3	36.5

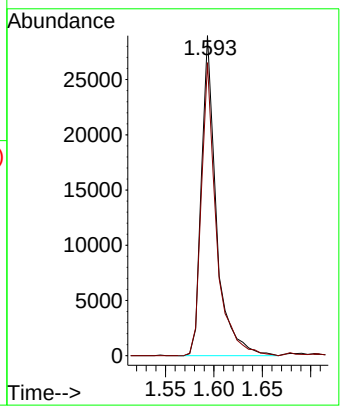




#5
Bromomethane
Concen: 56.268 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 94 Resp: 3108

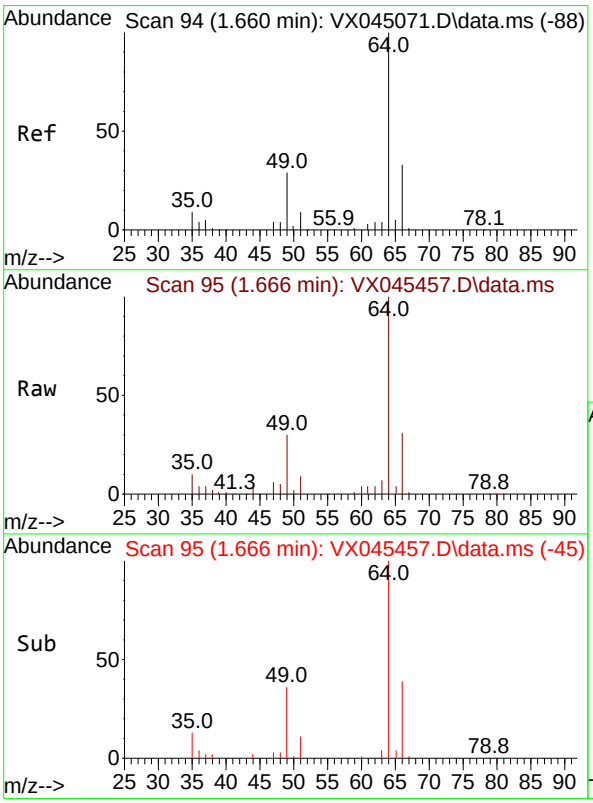
Ion	Ratio	Lower	Upper
94	100		
96	91.6	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

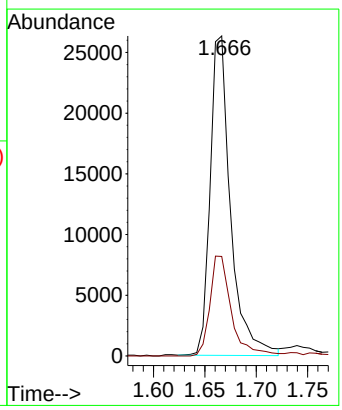
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

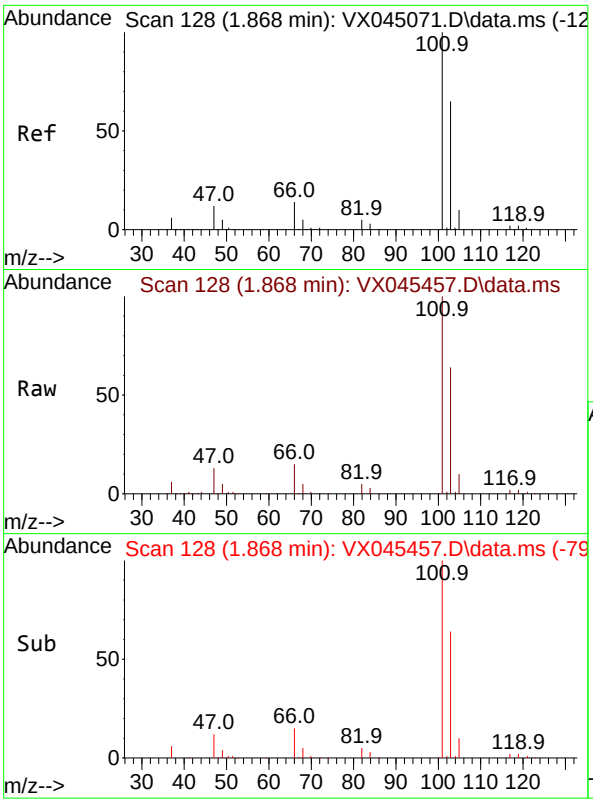


#6
Chloroethane
Concen: 55.960 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 64 Resp: 36275

Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.7	40.1

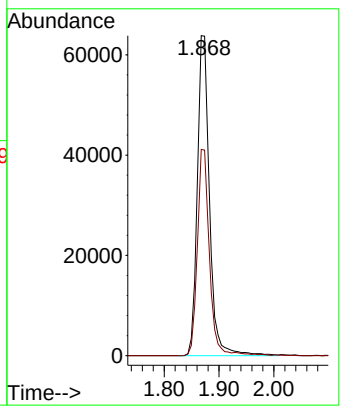




#7
Trichlorofluoromethane
Concen: 53.340 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:101 Resp: 9923

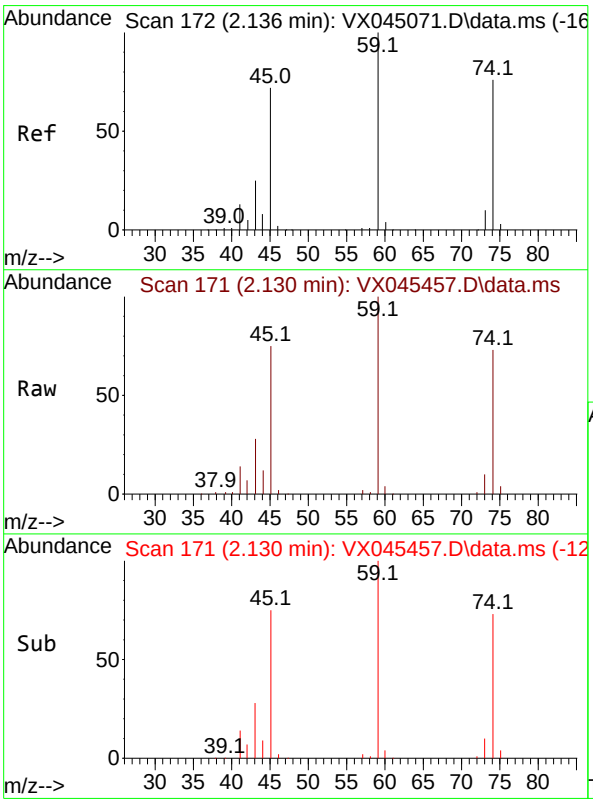
Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

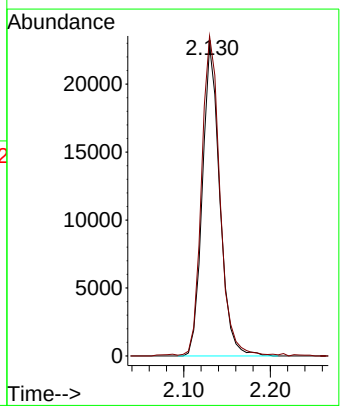
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

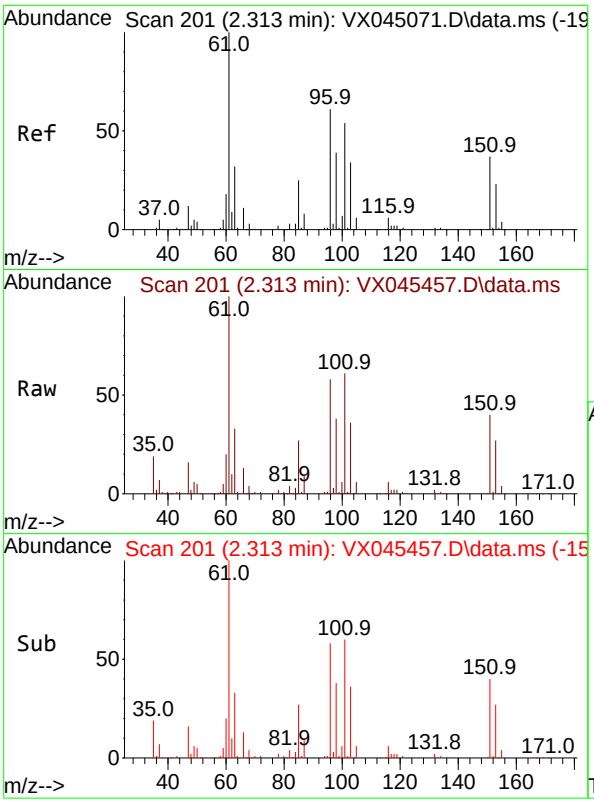


#8
Diethyl Ether
Concen: 43.921 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 74 Resp: 31961

Ion	Ratio	Lower	Upper
74	100		
45	109.1	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.611 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

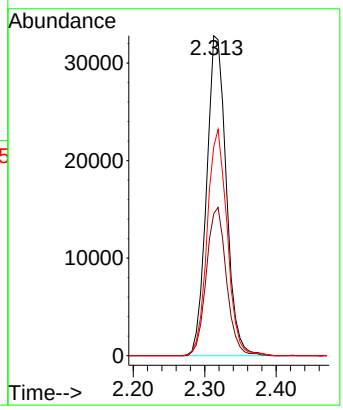
Tgt Ion:101 Resp: 6264

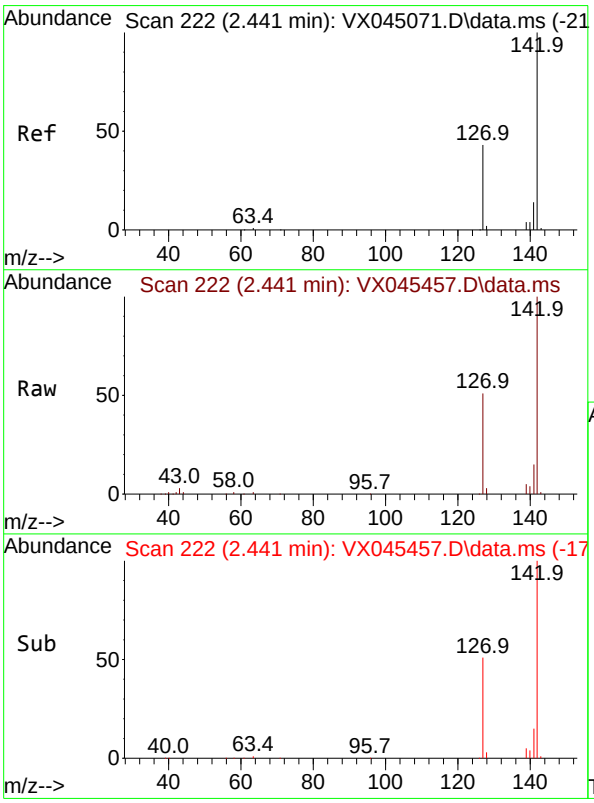
Ion	Ratio	Lower	Upper
101	100		
85	47.3	36.2	54.4
151	71.7	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

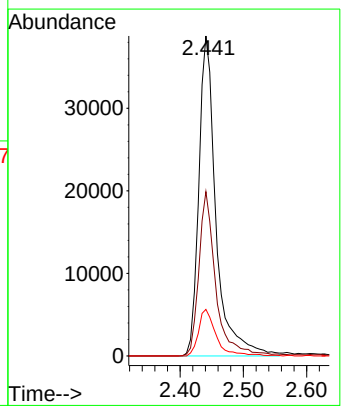


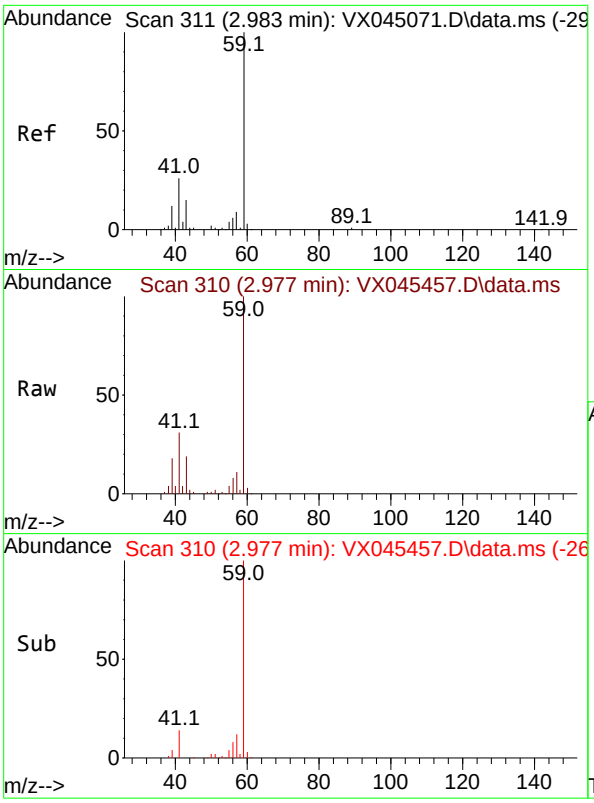


#10
Methyl Iodide
Concen: 54.980 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:142 Resp: 73438

Ion	Ratio	Lower	Upper
142	100		
127	50.6	35.4	53.2
141	14.9	11.6	17.4





#11
Tert butyl alcohol
Concen: 191.864 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

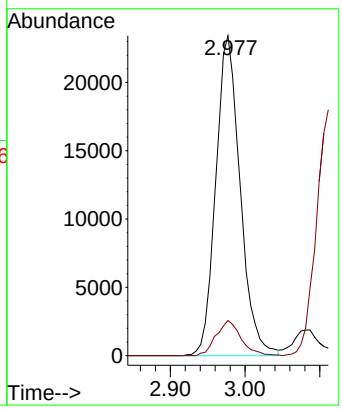
Tgt Ion: 59 Resp: 5316

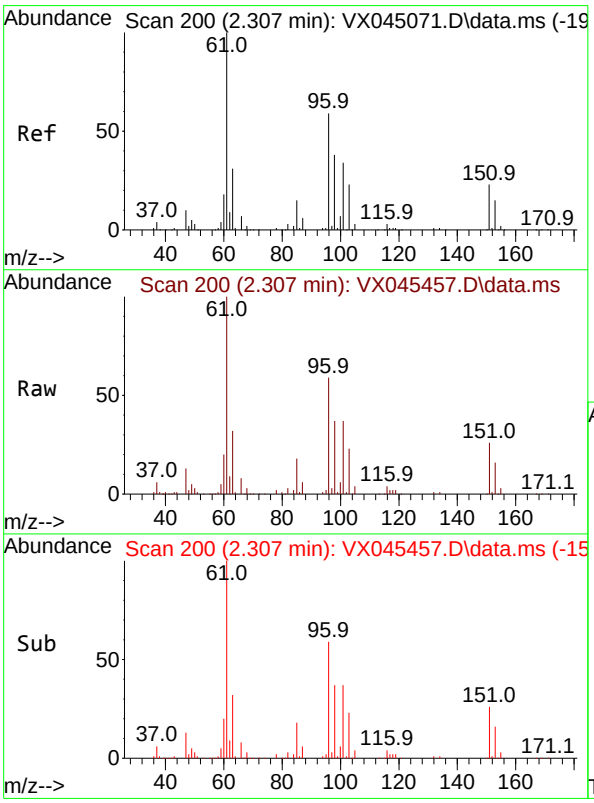
Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

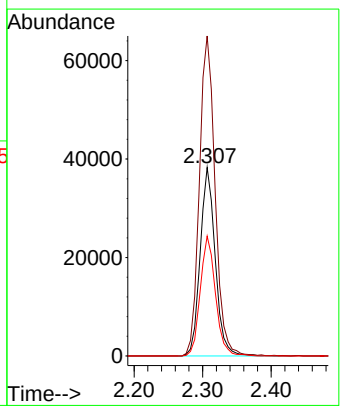


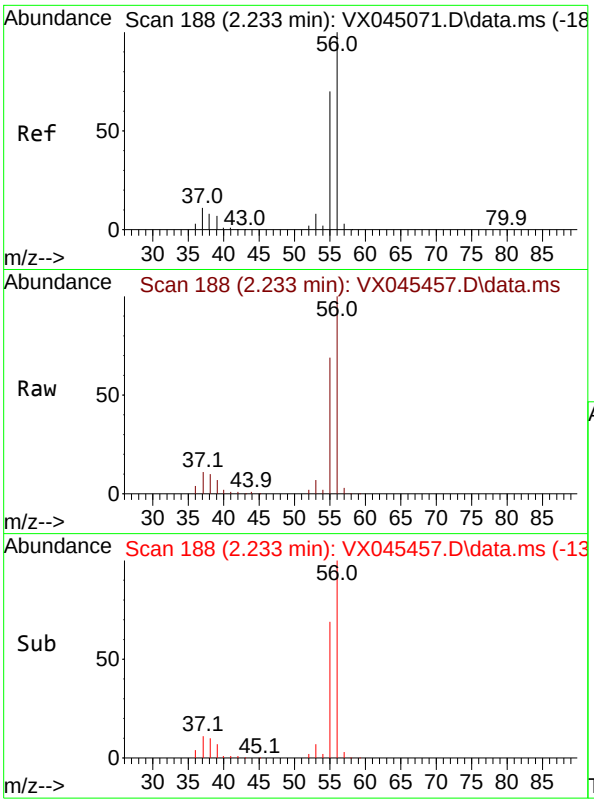


#12
1,1-Dichloroethene
Concen: 51.849 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 96 Resp: 58592

Ion	Ratio	Lower	Upper
96	100		
61	169.7	134.6	202.0
98	63.6	51.0	76.6

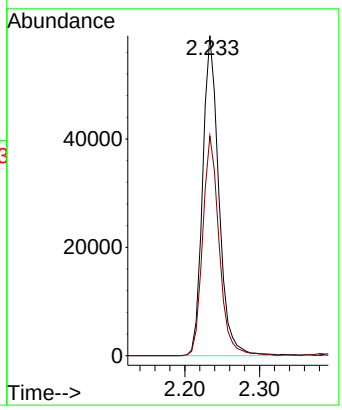




#13
Acrolein
Concen: 277.678 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 56 Resp: 8894

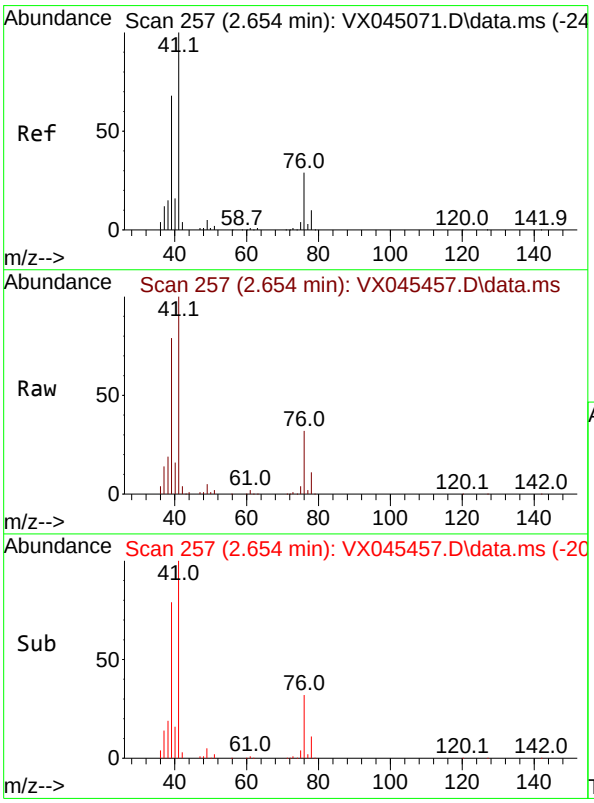
Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

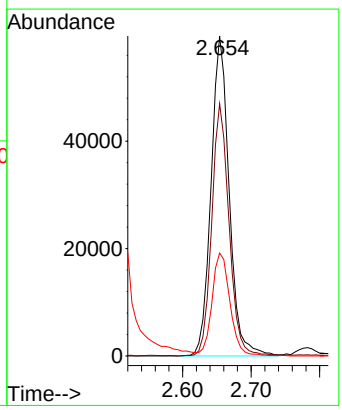
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

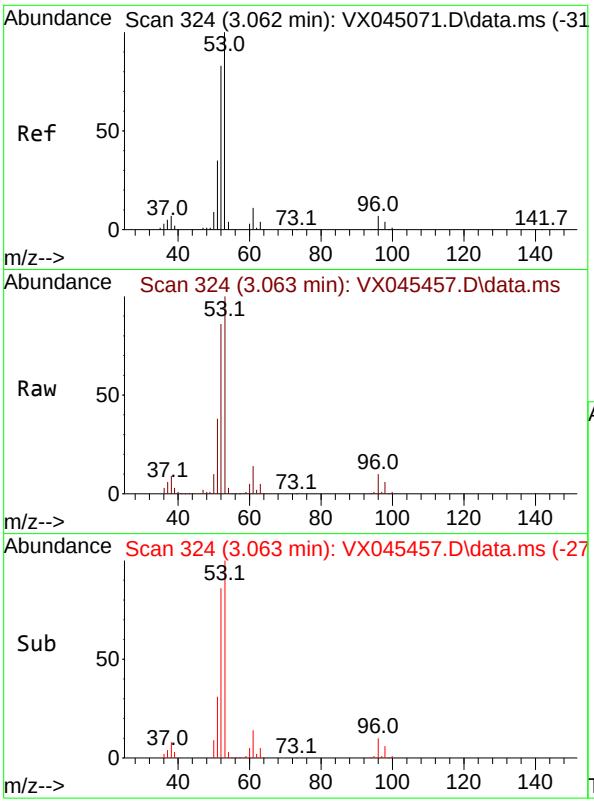


#14
Allyl chloride
Concen: 54.503 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 41 Resp: 109634

Ion	Ratio	Lower	Upper
41	100		
39	75.4	53.8	80.8
76	32.0	25.2	37.8

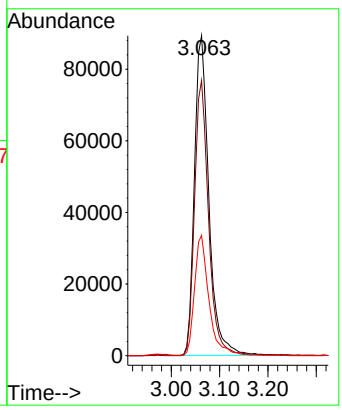




#15
Acrylonitrile
Concen: 249.317 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 53 Resp: 18514

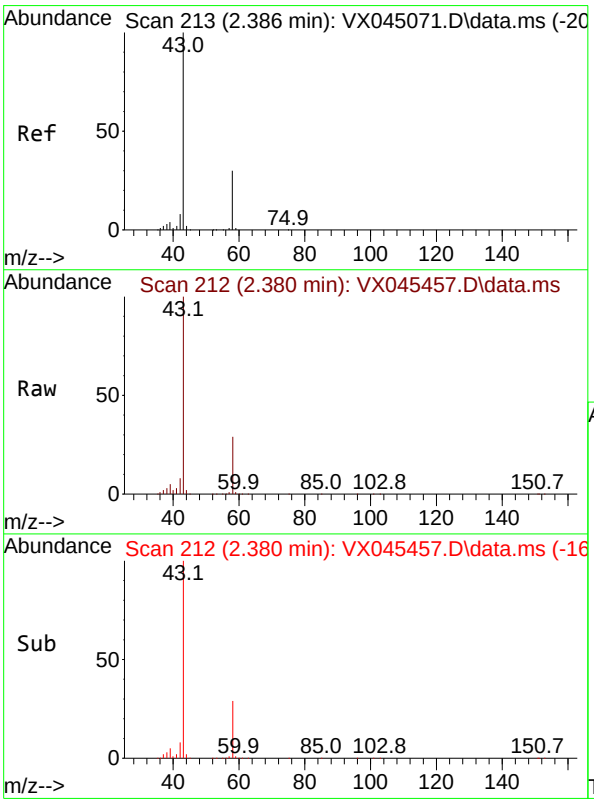
Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.2	99.2
51	37.4	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

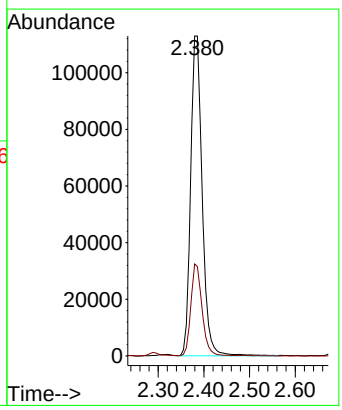
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

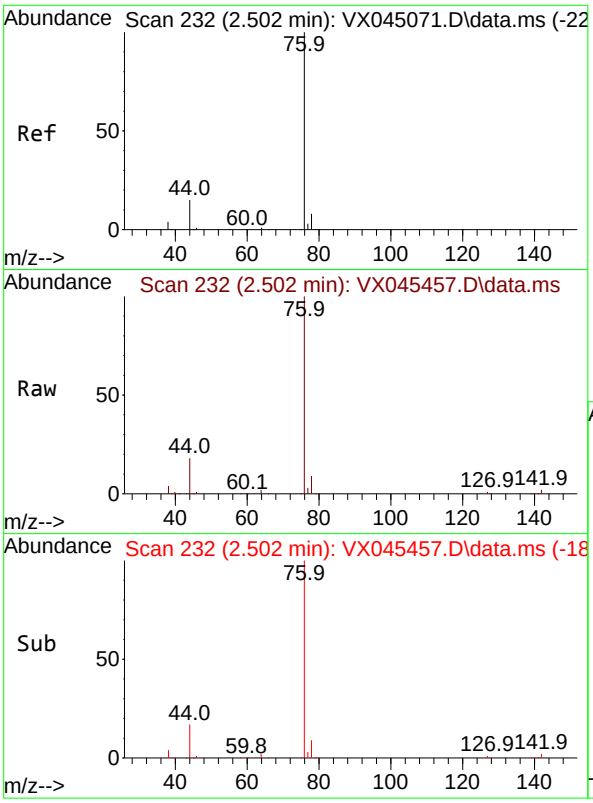


#16
Acetone
Concen: 291.541 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 197870

Ion	Ratio	Lower	Upper
43	100		
58	28.8	24.2	36.4

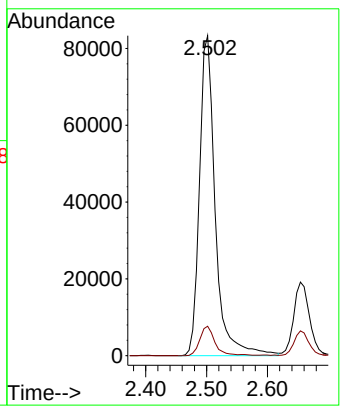




#17
Carbon Disulfide
Concen: 49.800 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 76 Resp: 14989

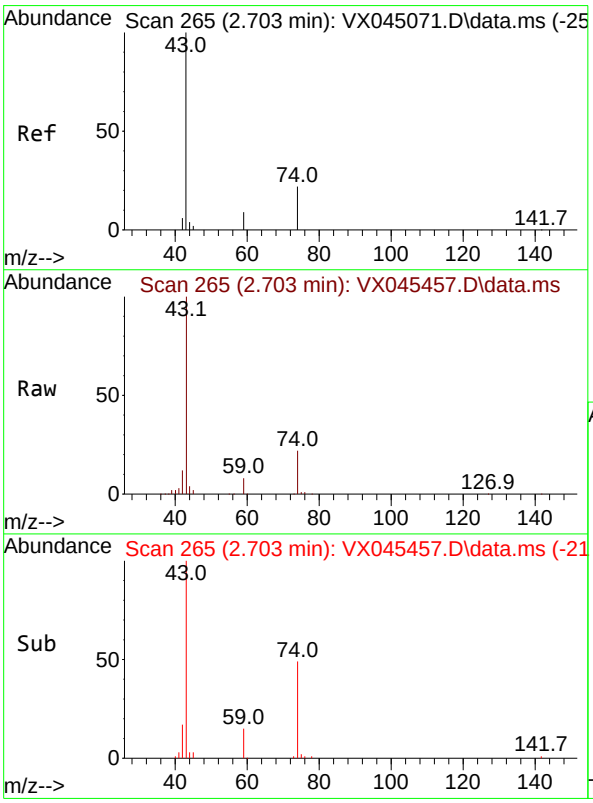
Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

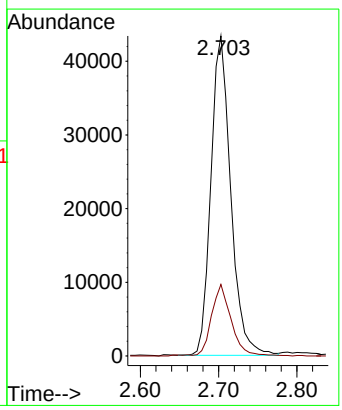
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

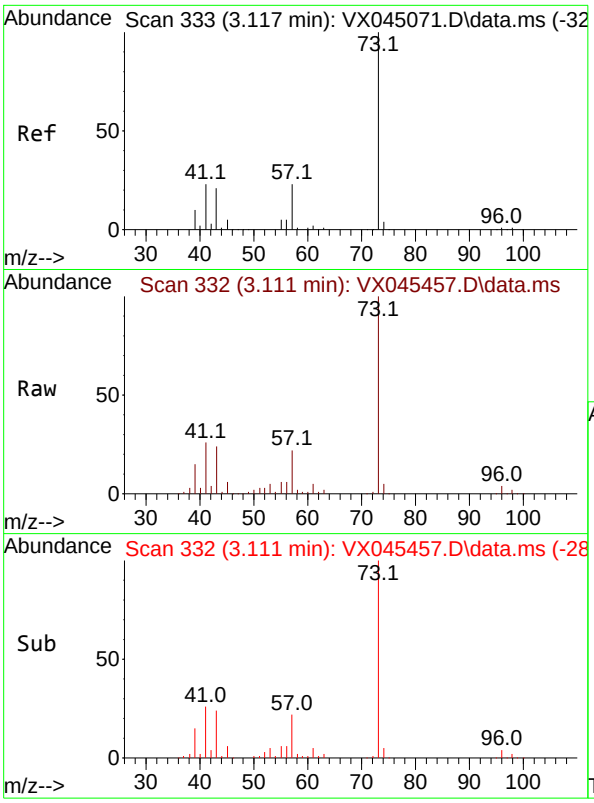


#18
Methyl Acetate
Concen: 46.794 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 76403

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

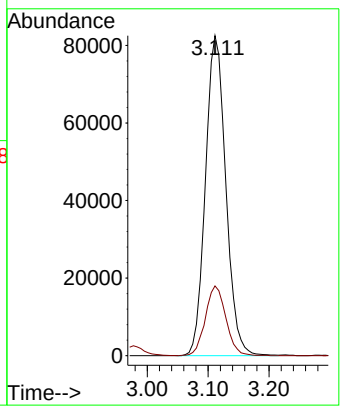




#19
Methyl tert-butyl Ether
Concen: 50.544 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 73 Resp: 19162

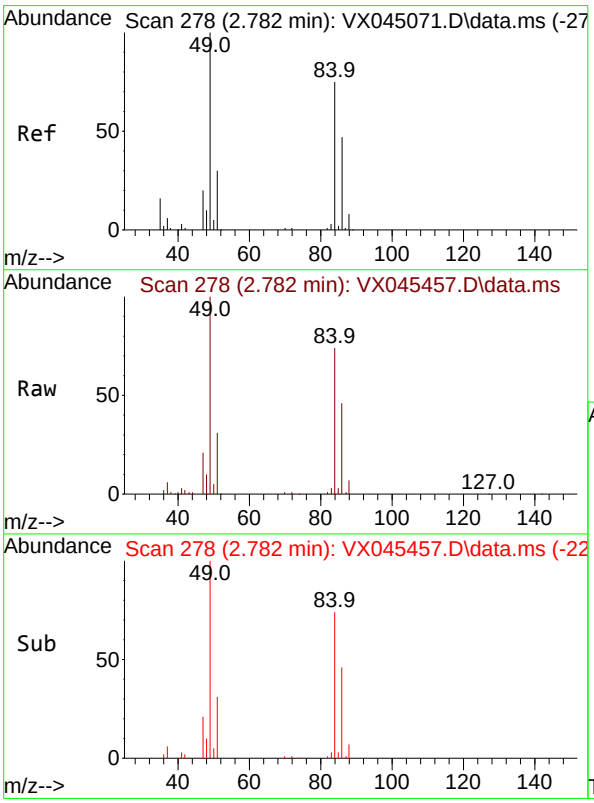
Ion	Ratio	Lower	Upper
73	100		
57	21.8	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

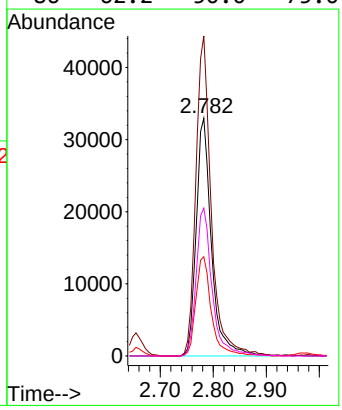
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

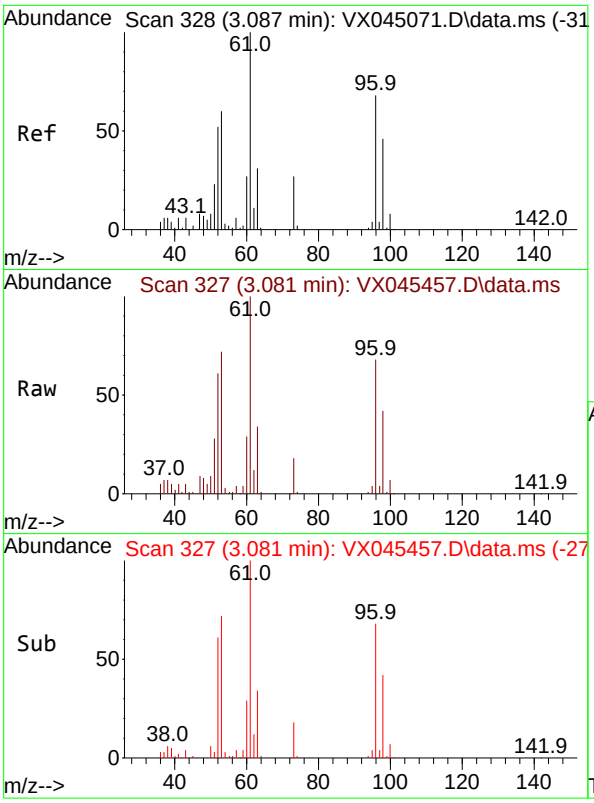


#20
Methylene Chloride
Concen: 49.206 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 84 Resp: 66154

Ion	Ratio	Lower	Upper
84	100		
49	134.6	106.5	159.7
51	41.7	32.1	48.1
86	62.2	50.0	75.0

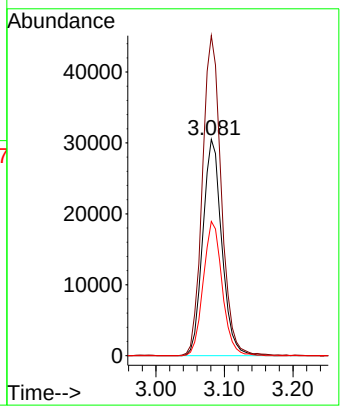




#21
trans-1,2-Dichloroethene
Concen: 52.719 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 96 Resp: 5885

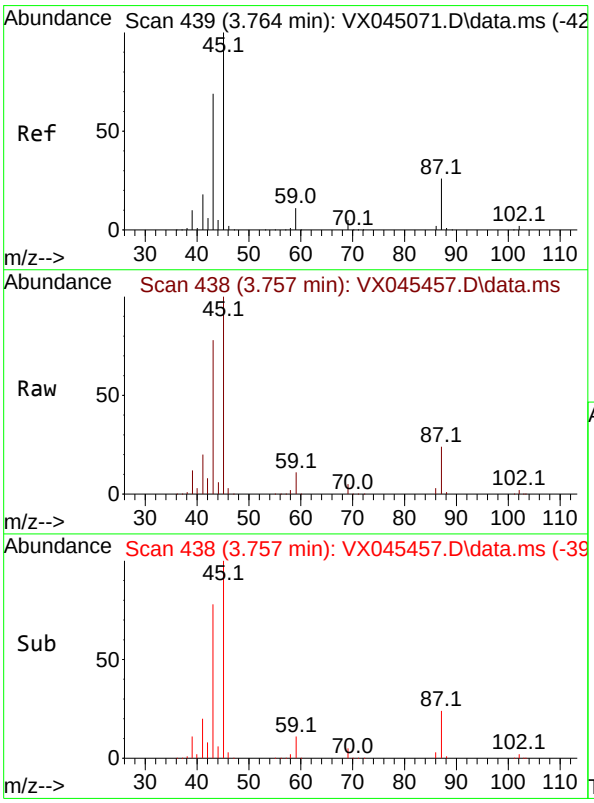
Ion	Ratio	Lower	Upper
96	100		
61	147.9	117.0	175.4
98	62.1	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

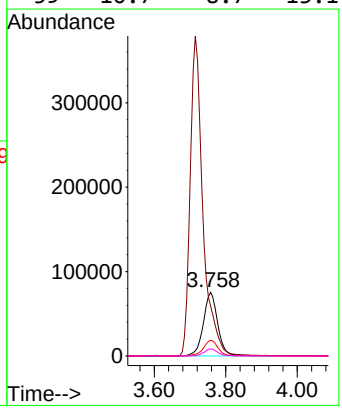
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

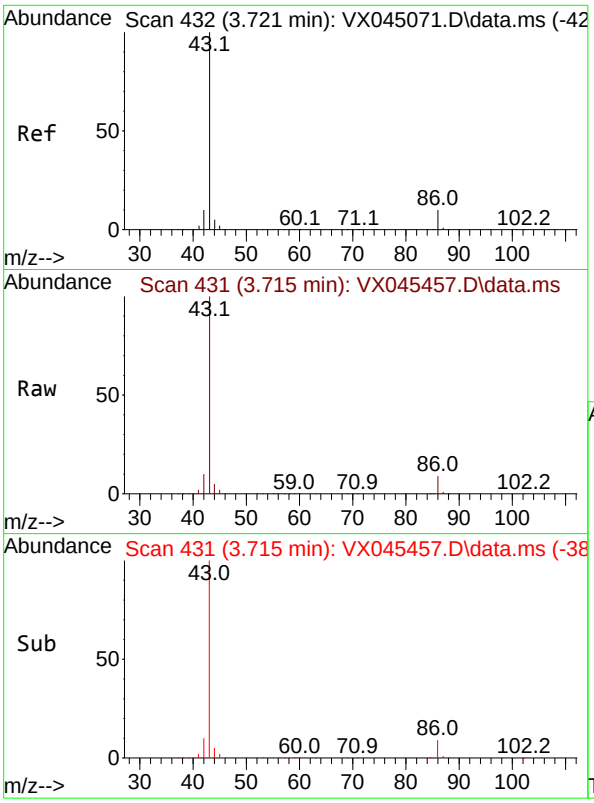


#22
Diisopropyl ether
Concen: 51.421 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 45 Resp: 210362

Ion	Ratio	Lower	Upper
45	100		
43	77.6	54.9	82.3
87	24.5	21.0	31.4
59	10.7	8.7	13.1





#23
Vinyl Acetate
Concen: 275.687 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

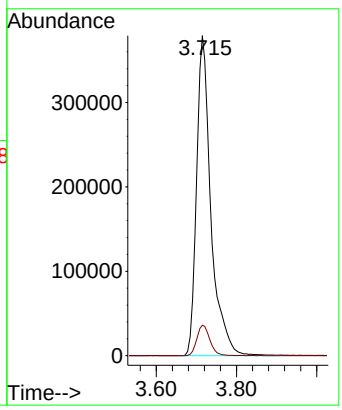
Tgt Ion: 43 Resp: 94117

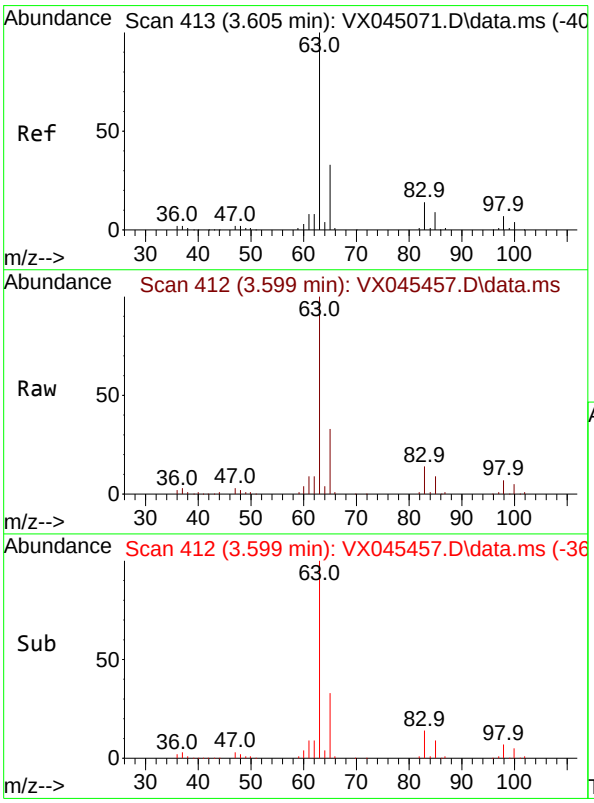
Ion	Ratio	Lower	Upper
43	100		
86	9.5	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

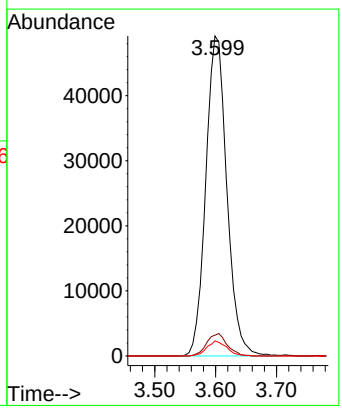


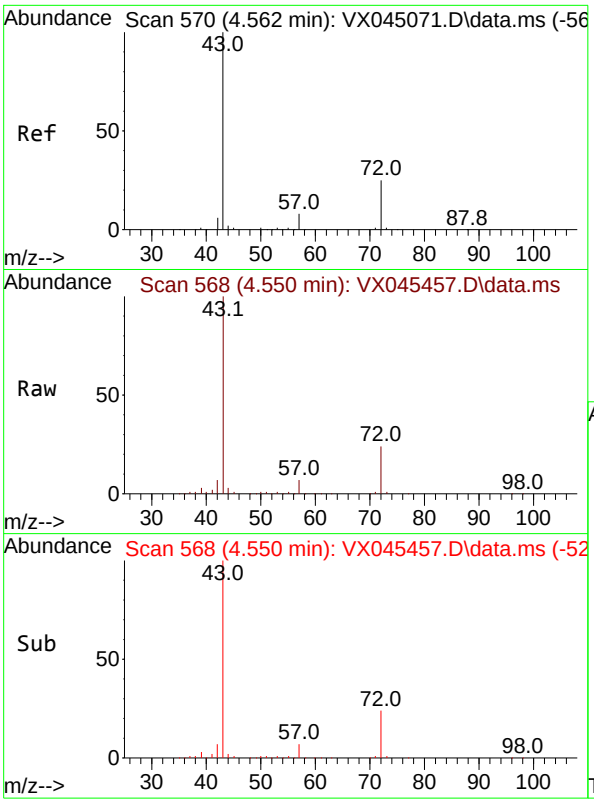


#24
1,1-Dichloroethane
Concen: 51.567 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 63 Resp: 118227

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.2
100	4.7	2.1	6.5

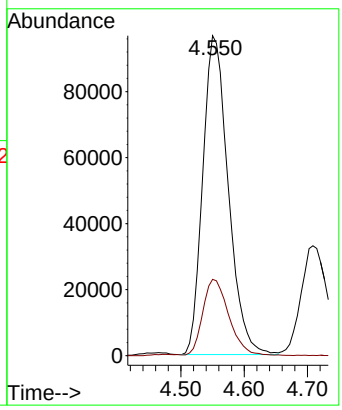




#25
2-Butanone
Concen: 265.005 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 27073

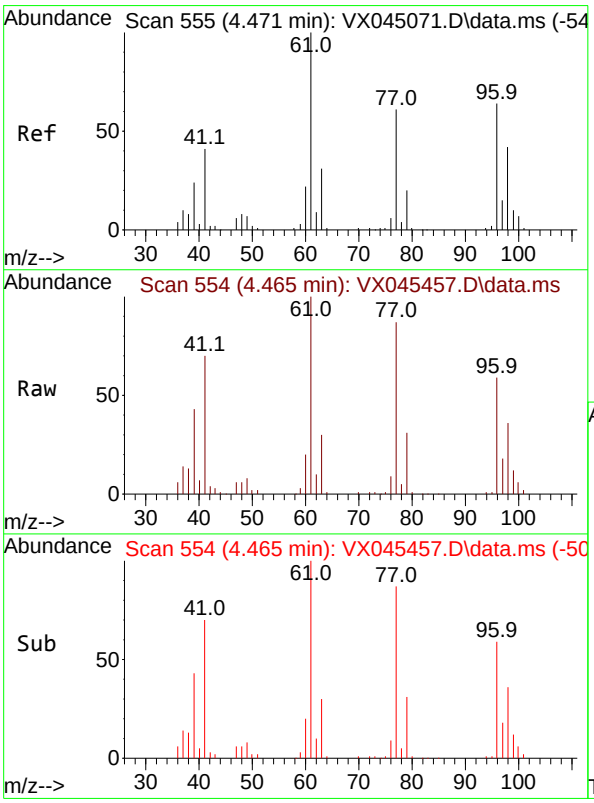
Ion	Ratio	Lower	Upper
43	100		
72	23.7	20.0	30.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

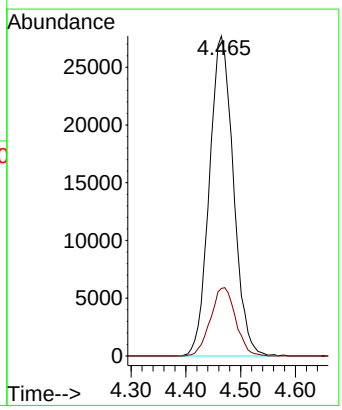
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

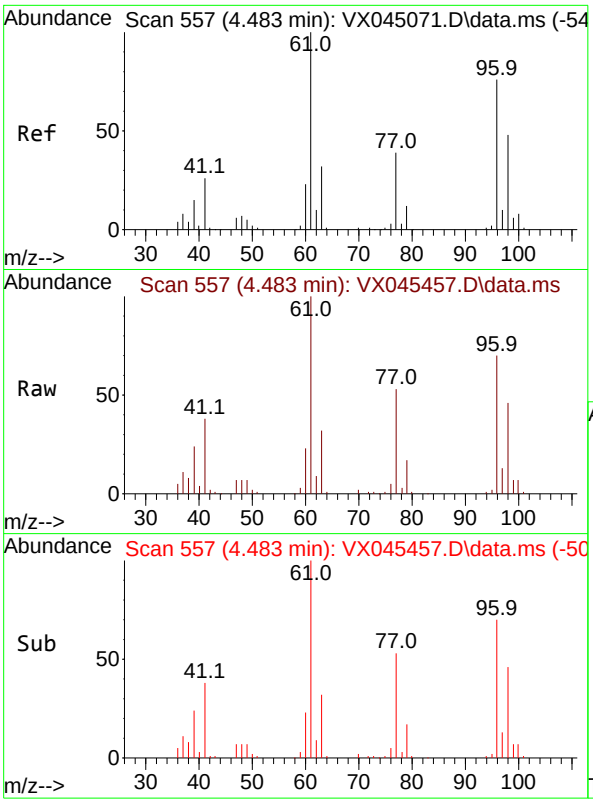


#26
2,2-Dichloropropane
Concen: 78.333 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 77 Resp: 84239

Ion	Ratio	Lower	Upper
77	100		
97	22.4	12.4	37.0

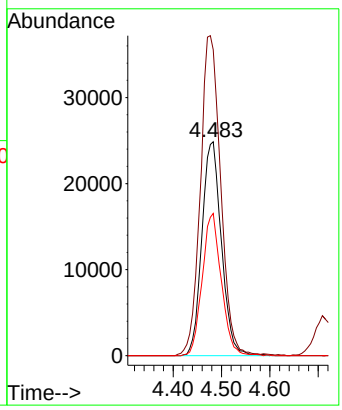




#27
cis-1,2-Dichloroethene
Concen: 50.497 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 96 Resp: 6959

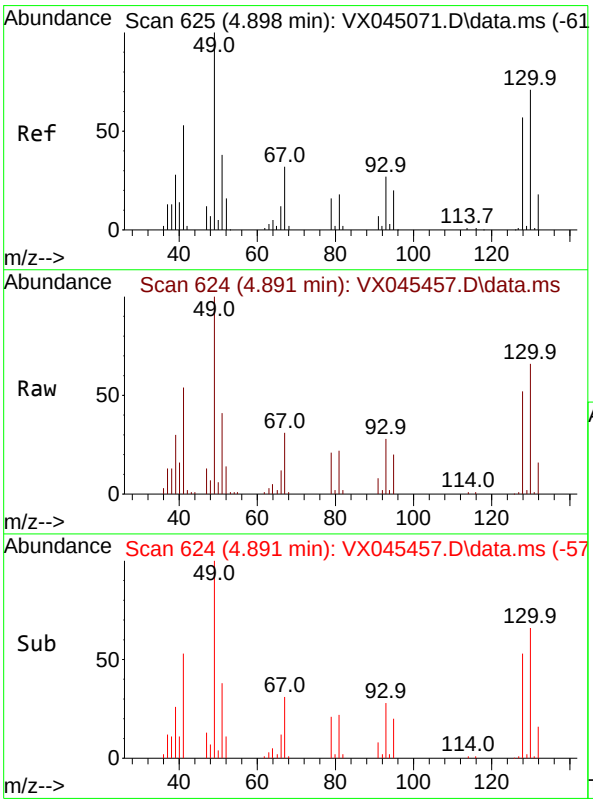
Ion	Ratio	Lower	Upper
96	100		
61	156.0	0.0	283.2
98	65.1	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

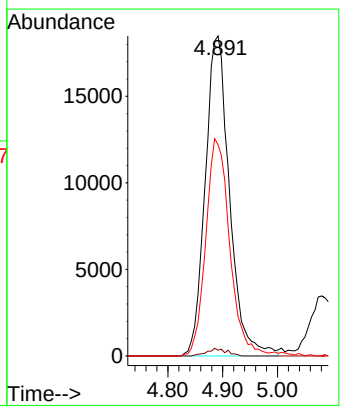
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

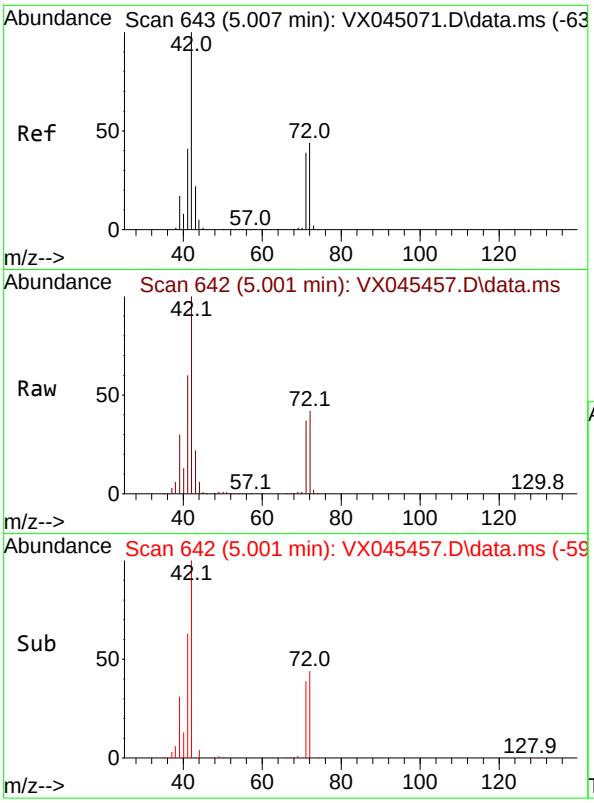


#28
Bromochloromethane
Concen: 52.106 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 49 Resp: 56942

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.4
130	66.6	56.1	84.1





#29
Tetrahydrofuran
Concen: 244.481 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

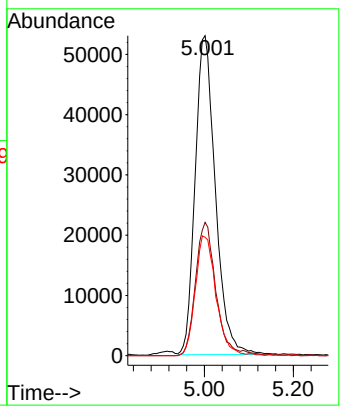
Tgt Ion: 42 Resp: 16773

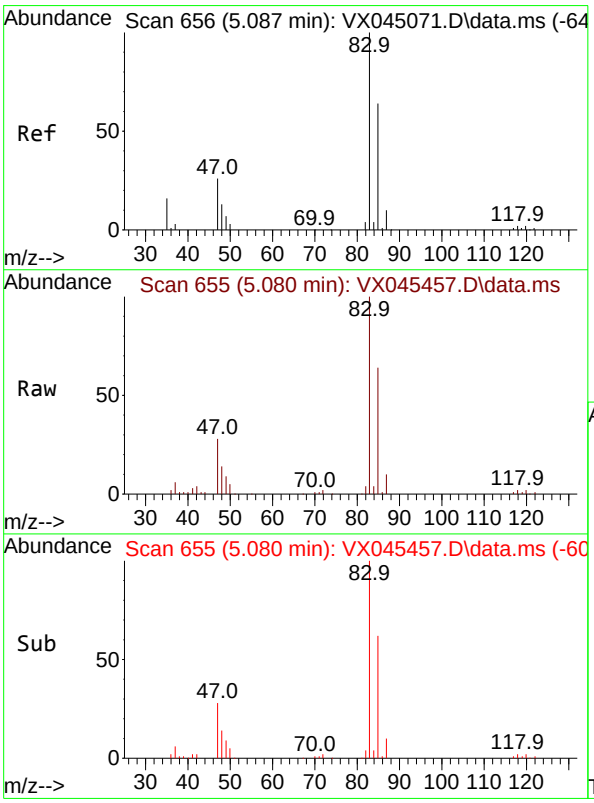
Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.1	51.1
71	38.3	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

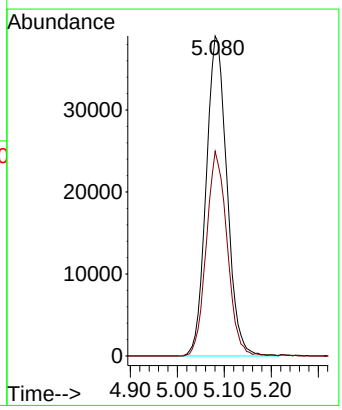


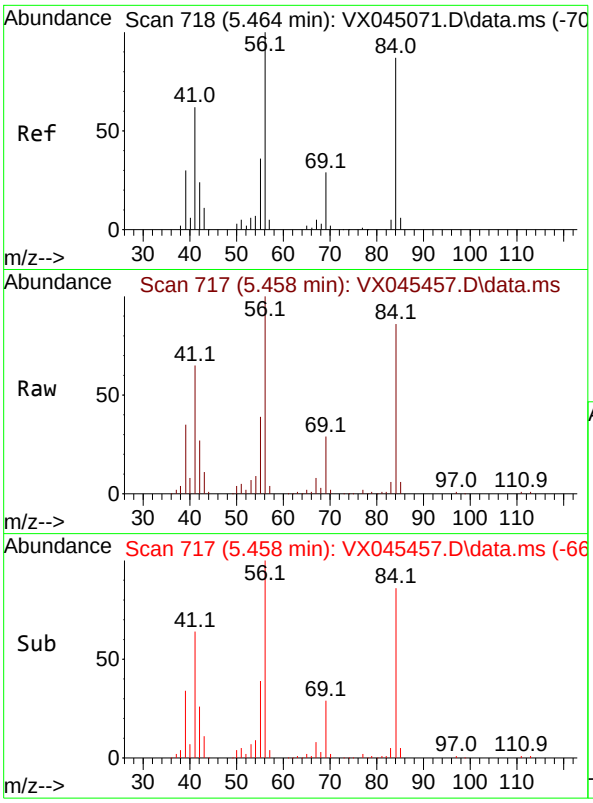


#30
Chloroform
Concen: 52.483 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 83 Resp: 119559

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.4	77.2

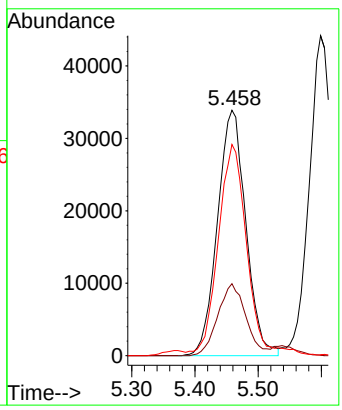




#31
Cyclohexane
Concen: 53.091 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 56 Resp: 10566

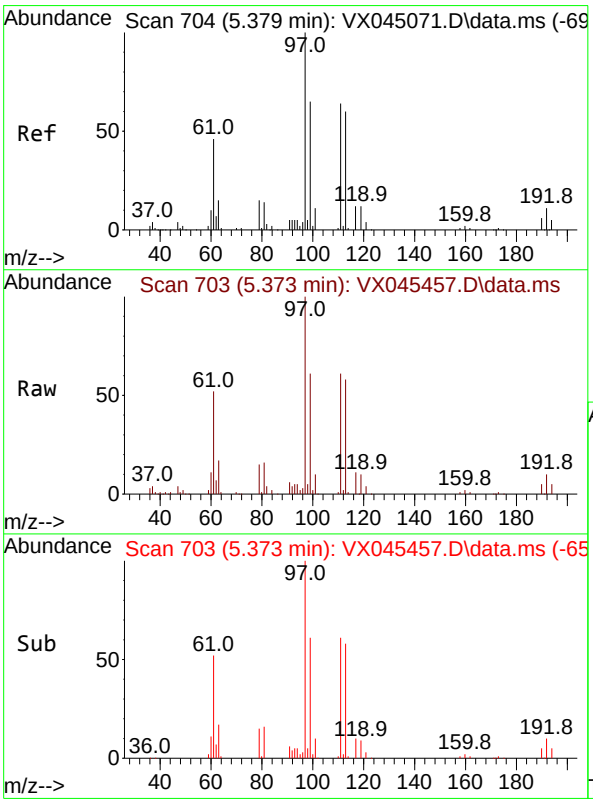
Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.4	35.2
84	84.0	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

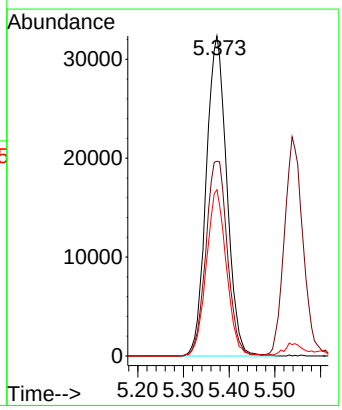
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

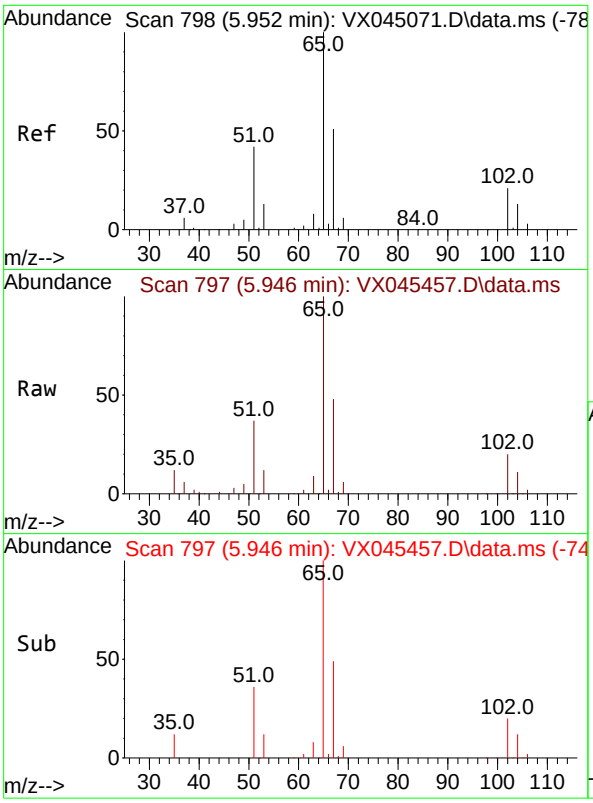


#32
1,1,1-Trichloroethane
Concen: 54.822 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 97 Resp: 100867

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	51.0	38.4	57.6

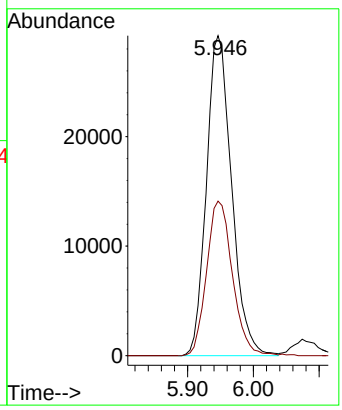




#33
1,2-Dichloroethane-d4
Concen: 53.238 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 65 Resp: 7787

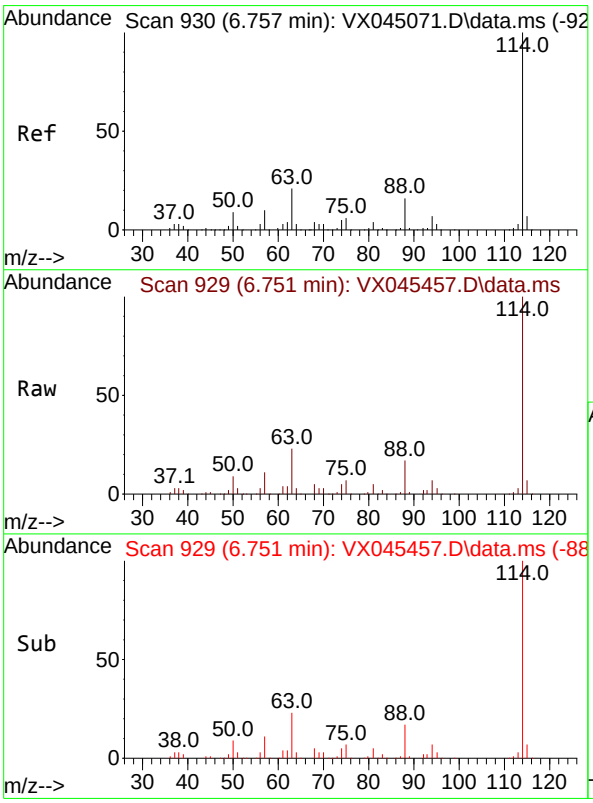
Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

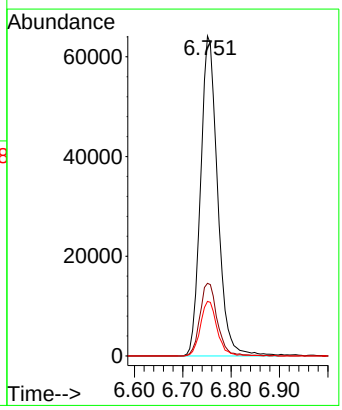
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

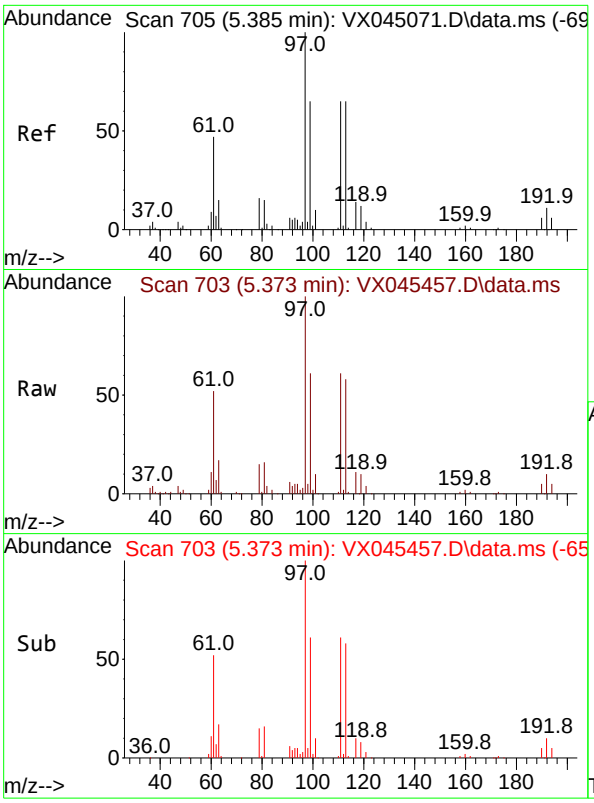


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:114 Resp: 157025

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	41.8
88	17.1	0.0	32.8

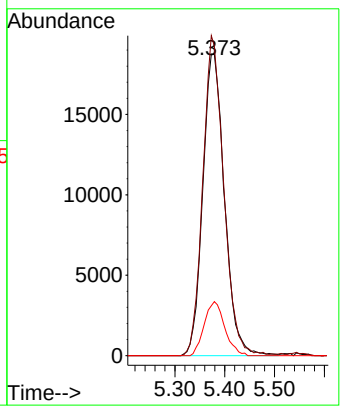




#35
Dibromofluoromethane
Concen: 53.998 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:113 Resp: 5669

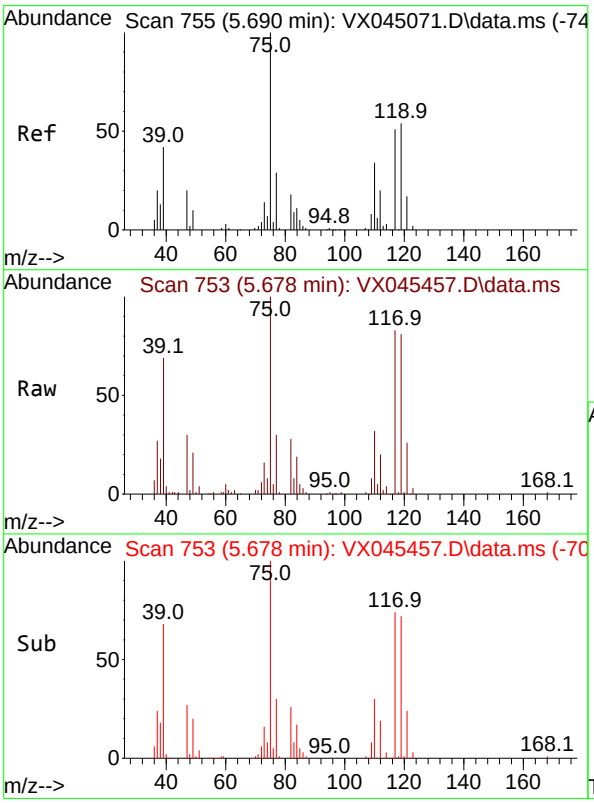
Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	17.0	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

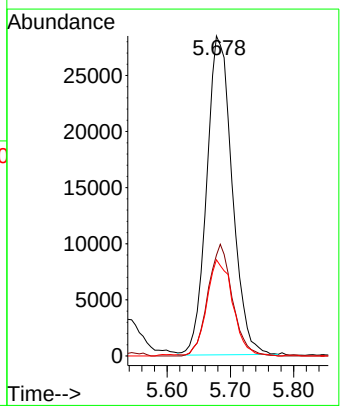
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

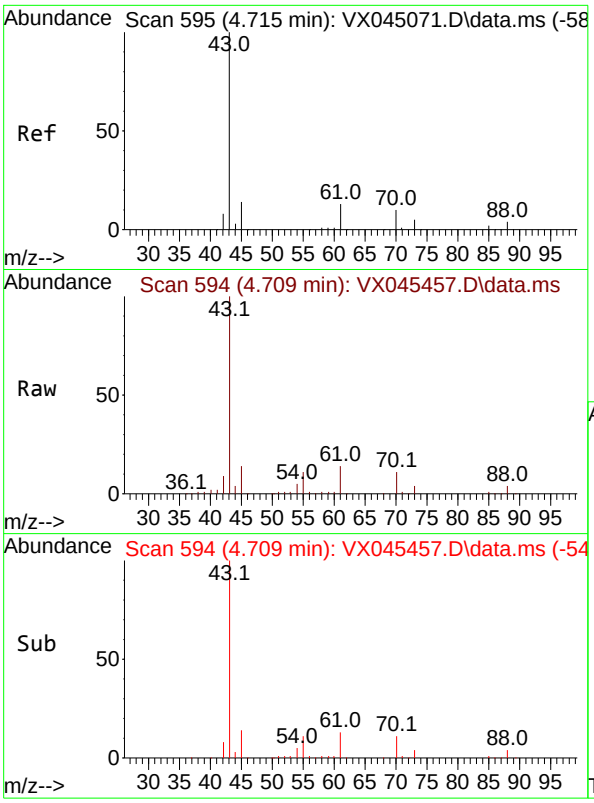


#36
1,1-Dichloropropene
Concen: 55.234 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 79534

Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.9	50.6
77	30.8	24.5	36.7

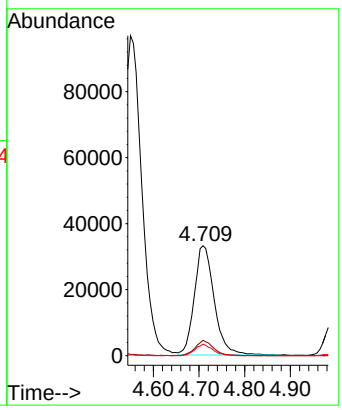




#37
Ethyl Acetate
Concen: 54.053 ug/l
RT: 4.709 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 10029

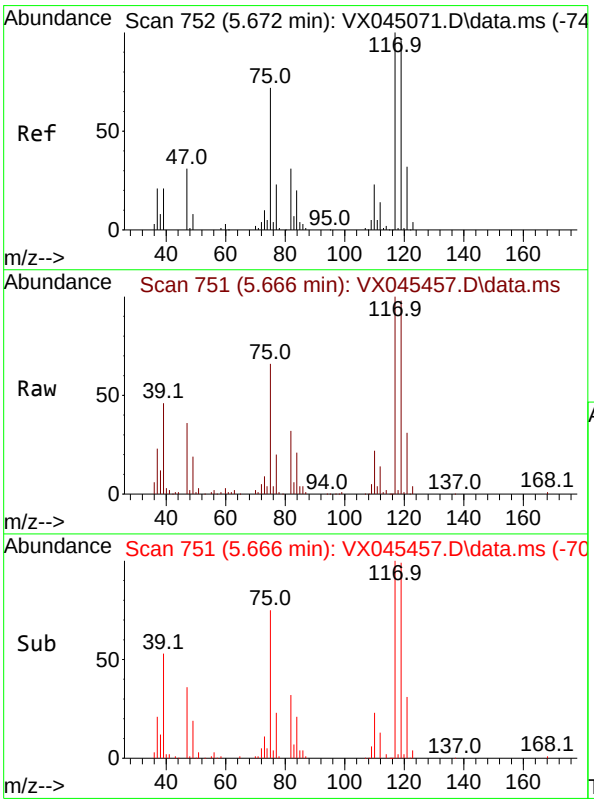
Ion	Ratio	Lower	Upper
43	100		
61	12.8	10.8	16.2
70	9.2	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

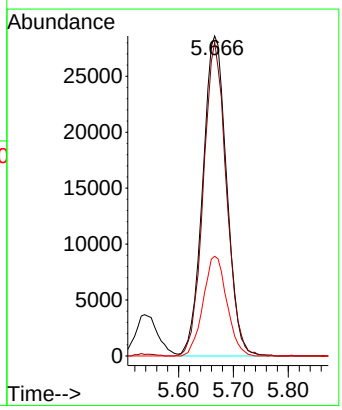
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

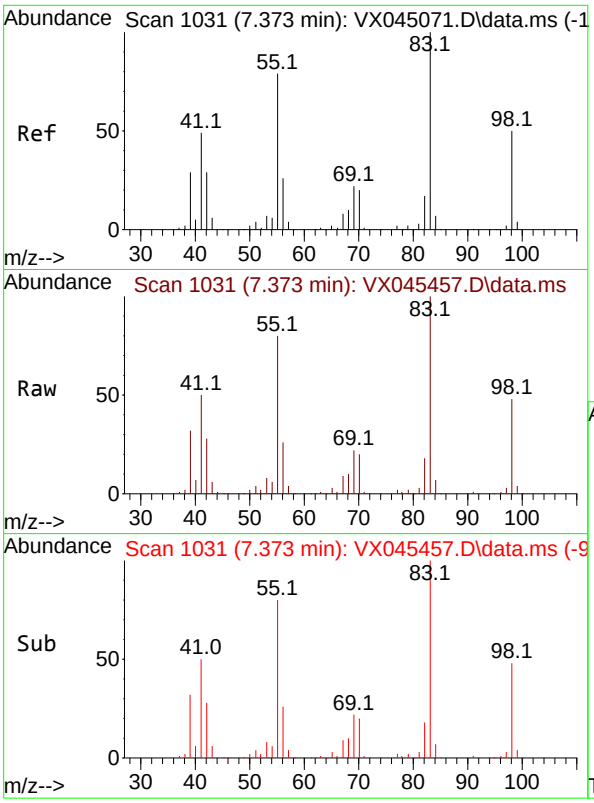


#38
Carbon Tetrachloride
Concen: 59.159 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:117 Resp: 86484

Ion	Ratio	Lower	Upper
117	100		
119	98.0	76.7	115.1
121	31.1	25.5	38.3

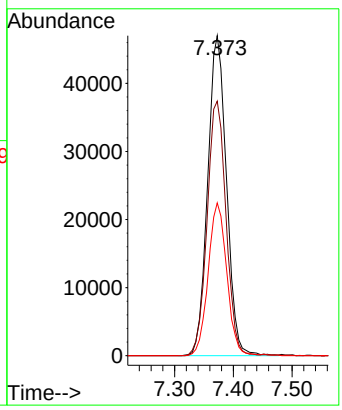




#39
Methylcyclohexane
Concen: 60.514 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 83 Resp: 10441

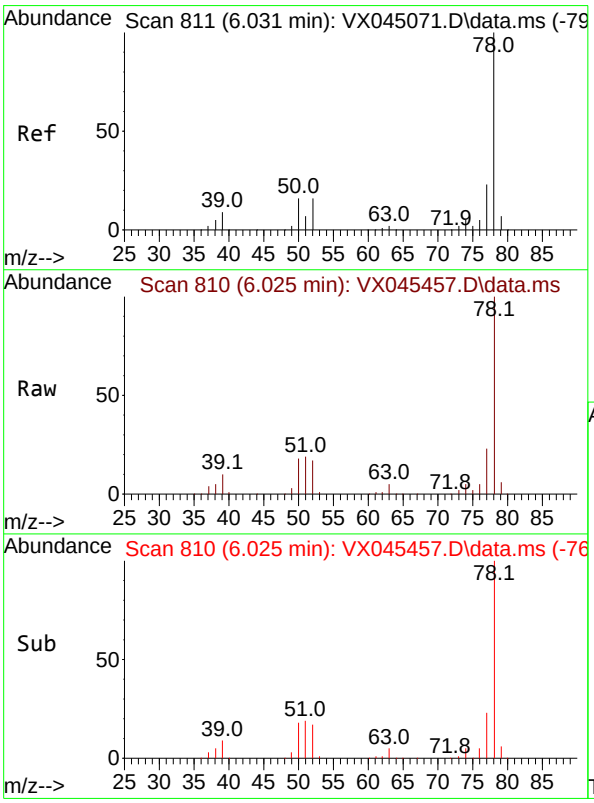
Ion	Ratio	Lower	Upper
83	100		
55	79.6	63.0	94.4
98	47.7	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

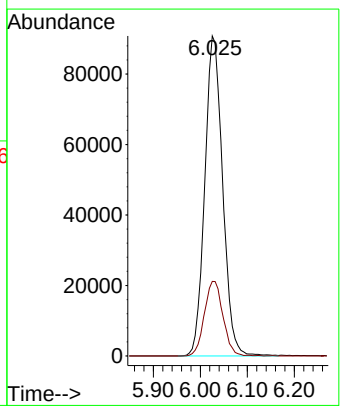
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

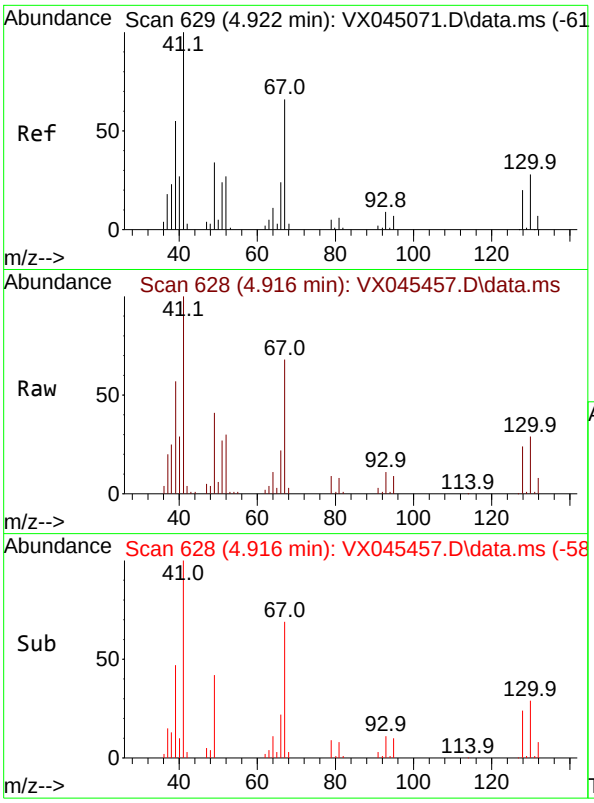


#40
Benzene
Concen: 52.687 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 78 Resp: 239569

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2

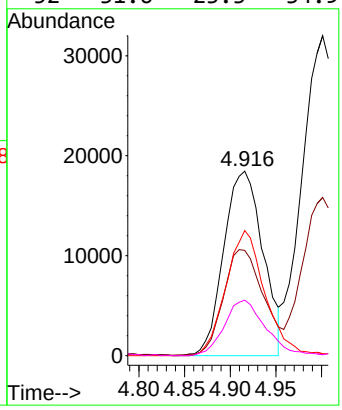




#41
Methacrylonitrile
Concen: 54.944 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 41 Resp: 5512

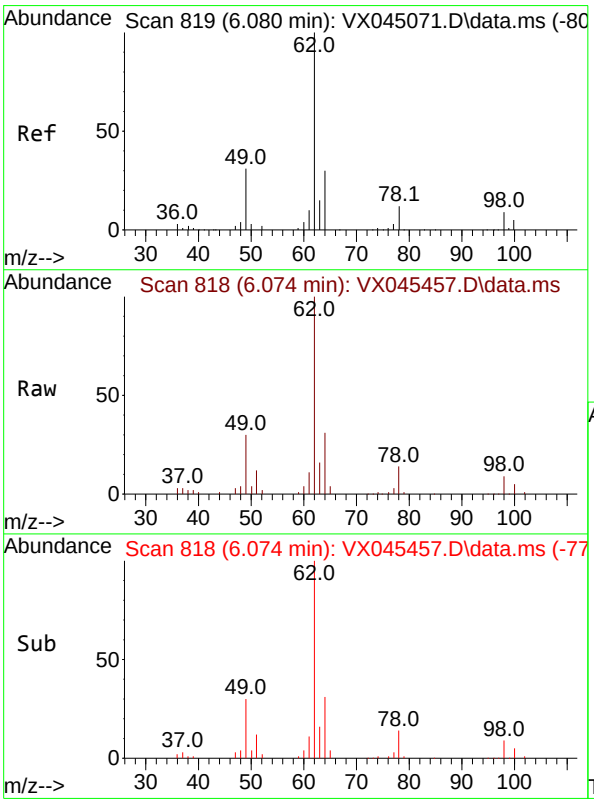
Ion	Ratio	Lower	Upper
41	100		
39	59.2	44.6	67.0
67	67.8	53.9	80.9
52	31.6	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

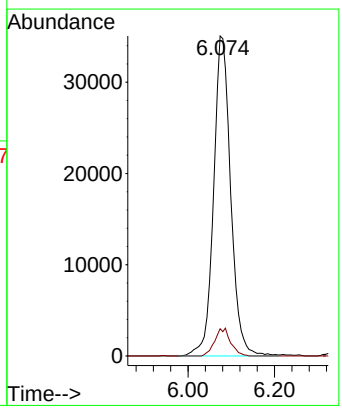
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

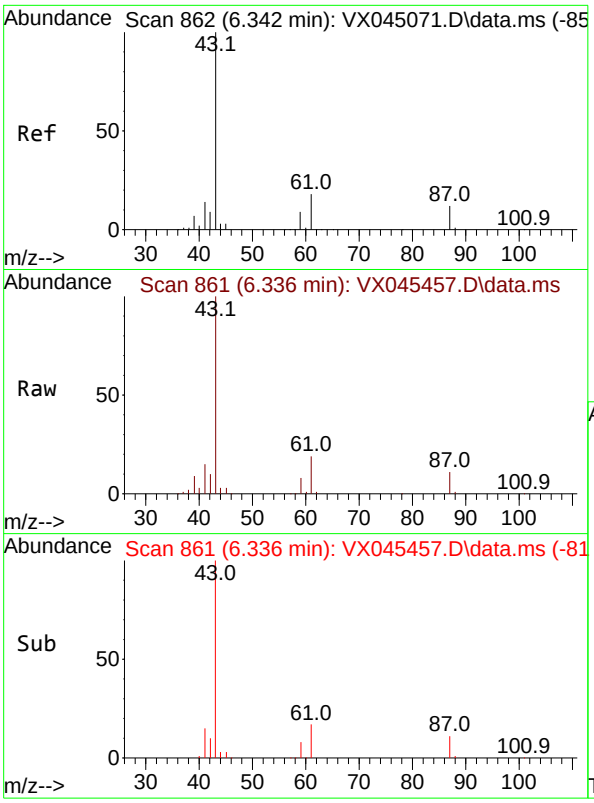


#42
1,2-Dichloroethane
Concen: 58.759 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 62 Resp: 96212

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	18.2

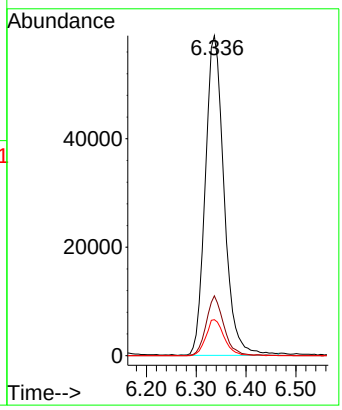




#43
Isopropyl Acetate
Concen: 56.230 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 15427

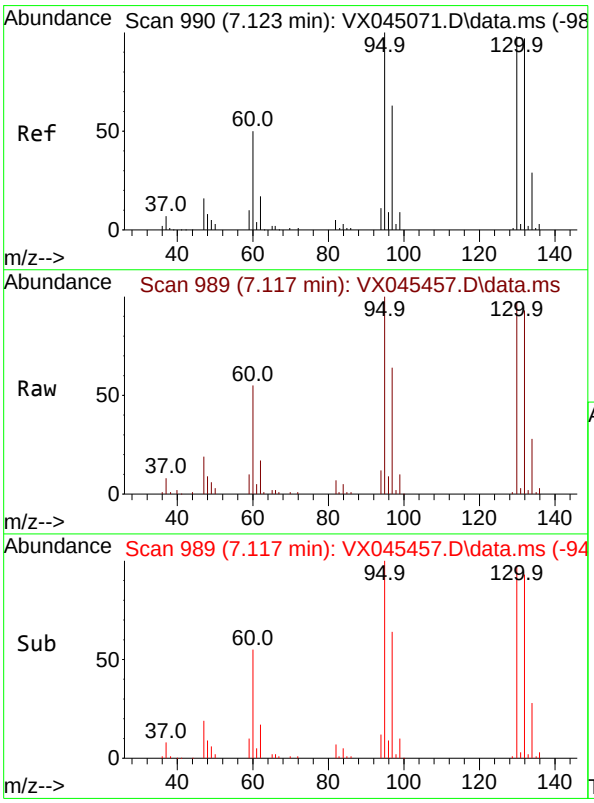
Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.9	22.3
87	11.0	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

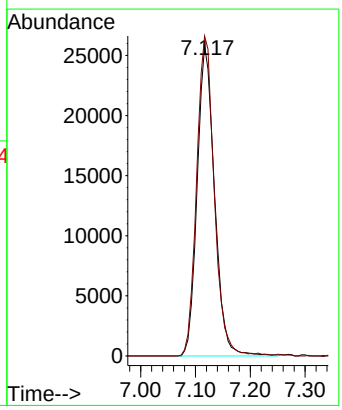
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

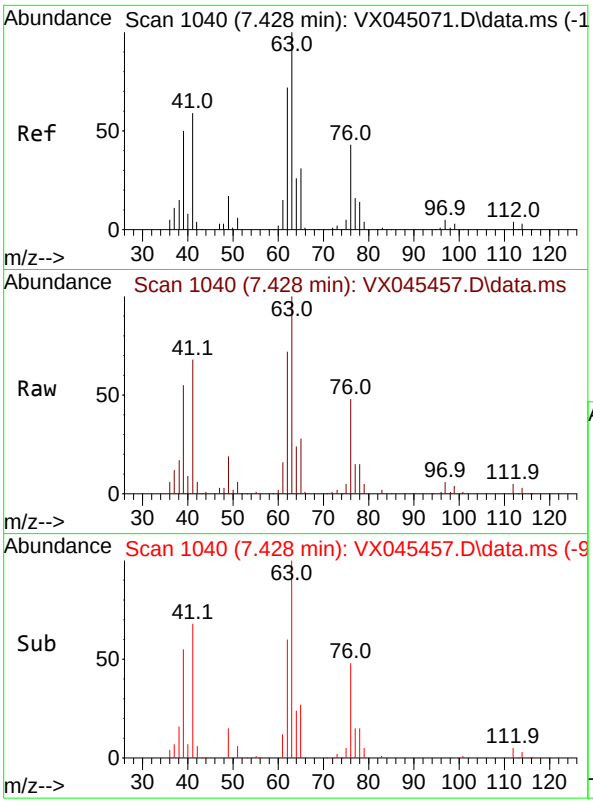


#44
Trichloroethene
Concen: 53.389 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:130 Resp: 57002

Ion	Ratio	Lower	Upper
130	100		
95	103.1	0.0	205.0

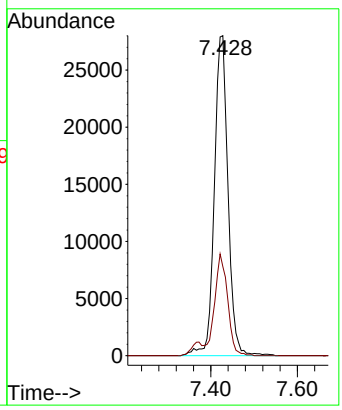




#45
1,2-Dichloropropane
Concen: 52.525 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 63 Resp: 6140

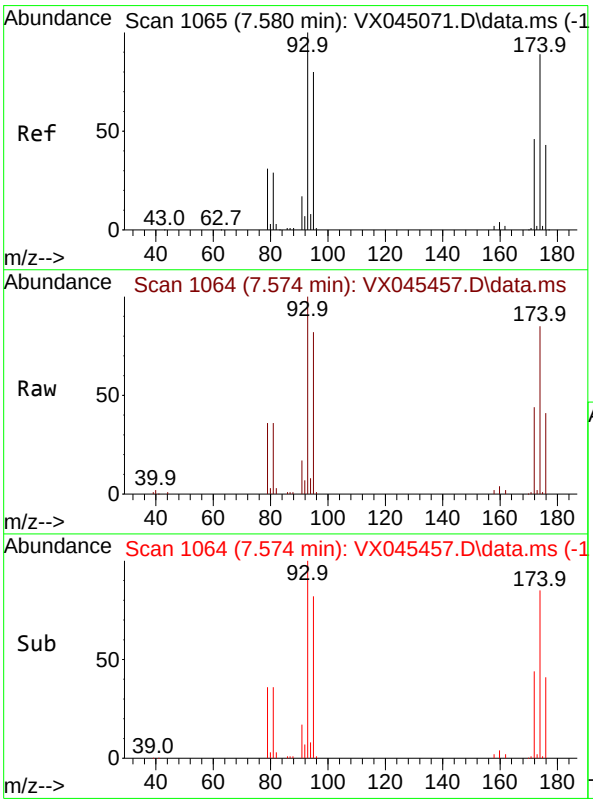
Ion	Ratio	Lower	Upper
63	100		
65	27.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

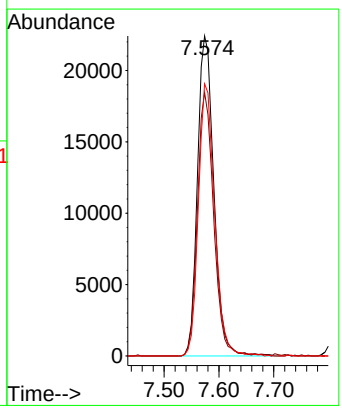
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

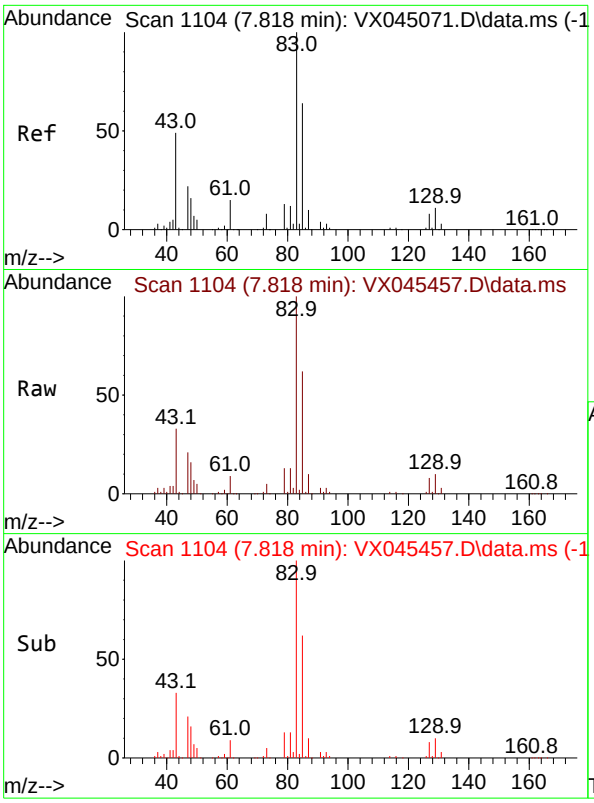


#46
Dibromomethane
Concen: 56.518 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 93 Resp: 46702

Ion	Ratio	Lower	Upper
93	100		
95	81.5	65.8	98.8
174	84.2	72.2	108.2

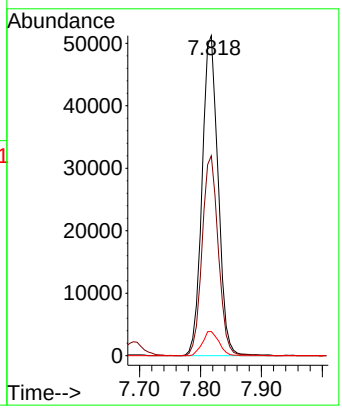




#47
Bromodichloromethane
Concen: 57.794 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 83 Resp: 9367

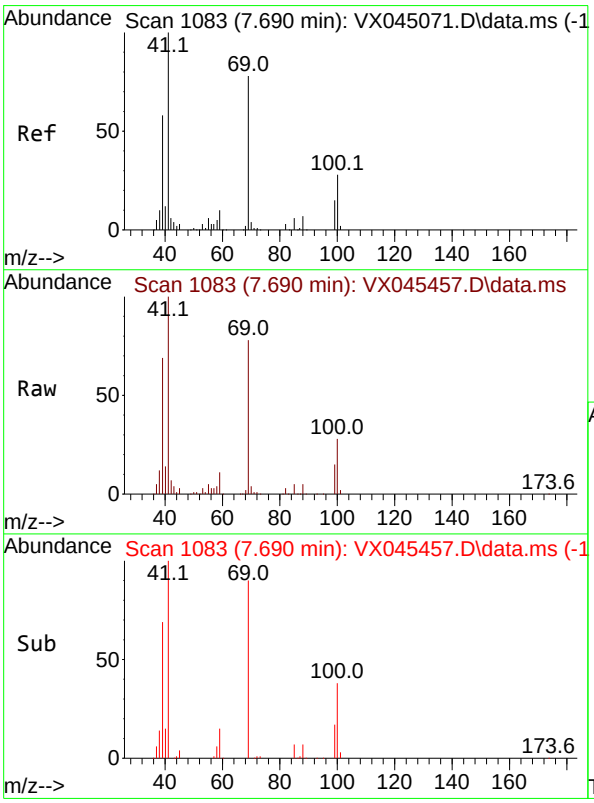
Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.1	76.7
127	7.5	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

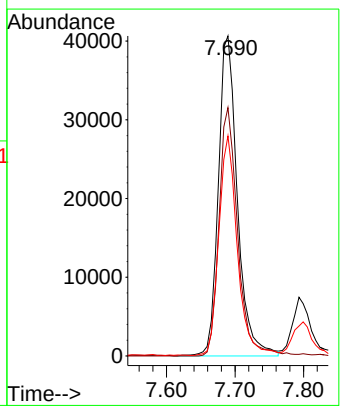
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

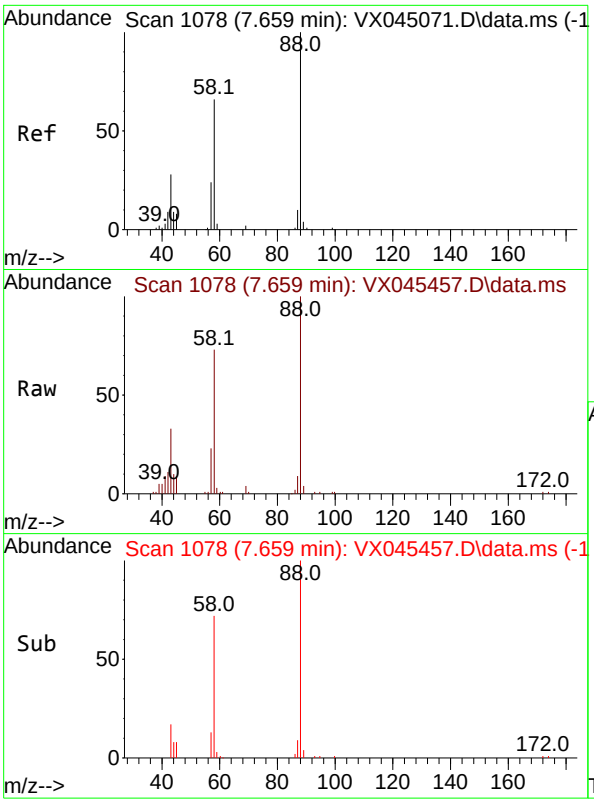


#48
Methyl methacrylate
Concen: 56.921 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 41 Resp: 78351

Ion	Ratio	Lower	Upper
41	100		
69	75.8	63.0	94.6
39	66.5	47.5	71.3





#49
1,4-Dioxane
Concen: 963.058 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

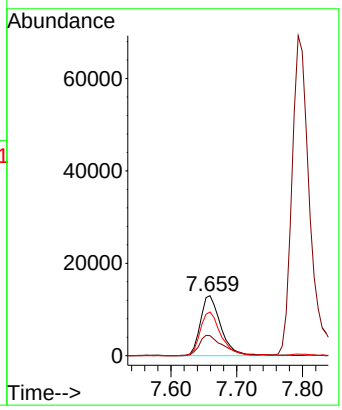
Tgt Ion: 88 Resp: 2796

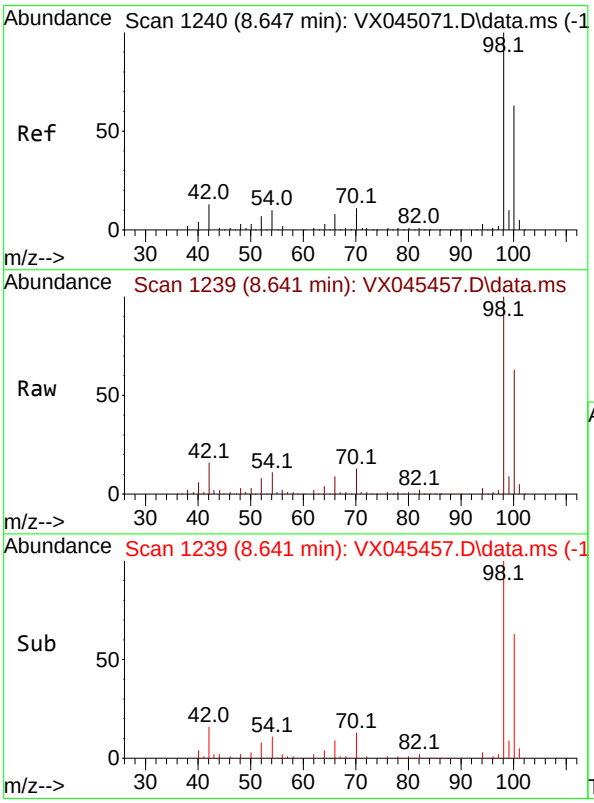
Ion	Ratio	Lower	Upper
88	100		
43	41.3	28.7	43.1
58	73.0	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

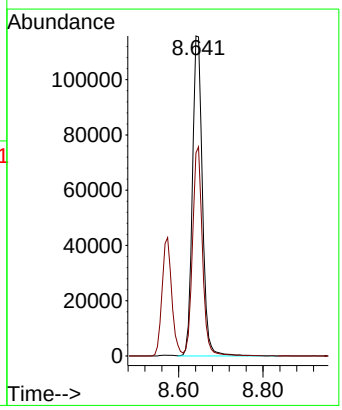


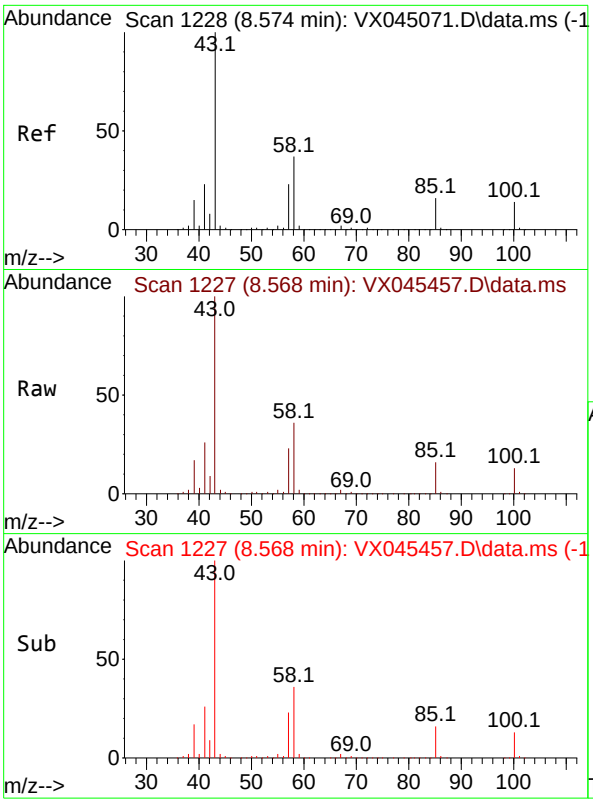


#50
Toluene-d8
Concen: 50.238 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 98 Resp: 191234

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.0	78.0

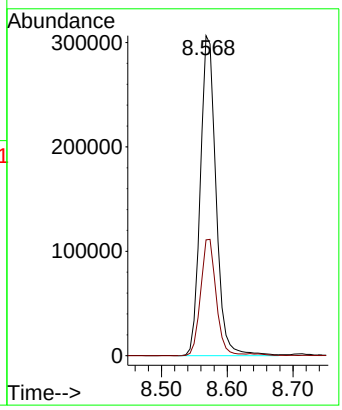




#51
4-Methyl-2-Pentanone
Concen: 276.344 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 50909

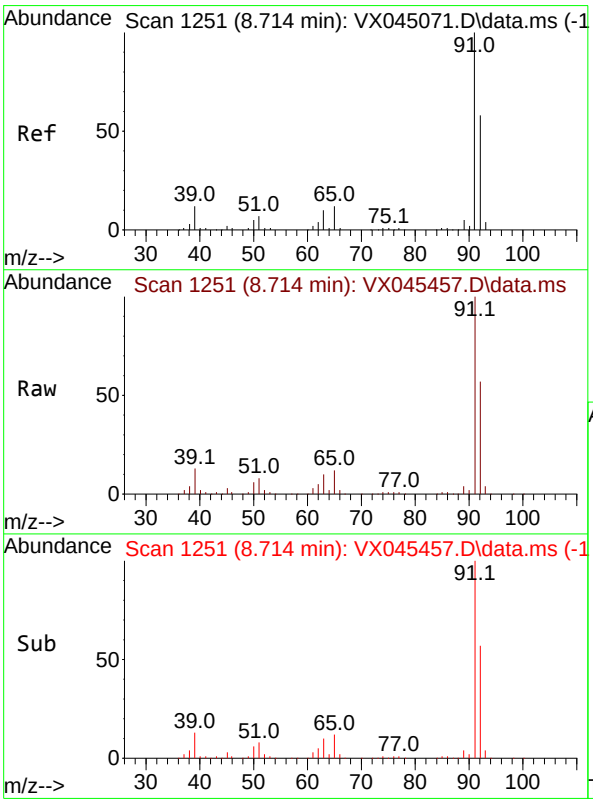
Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

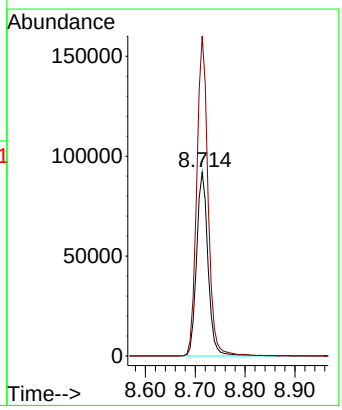
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

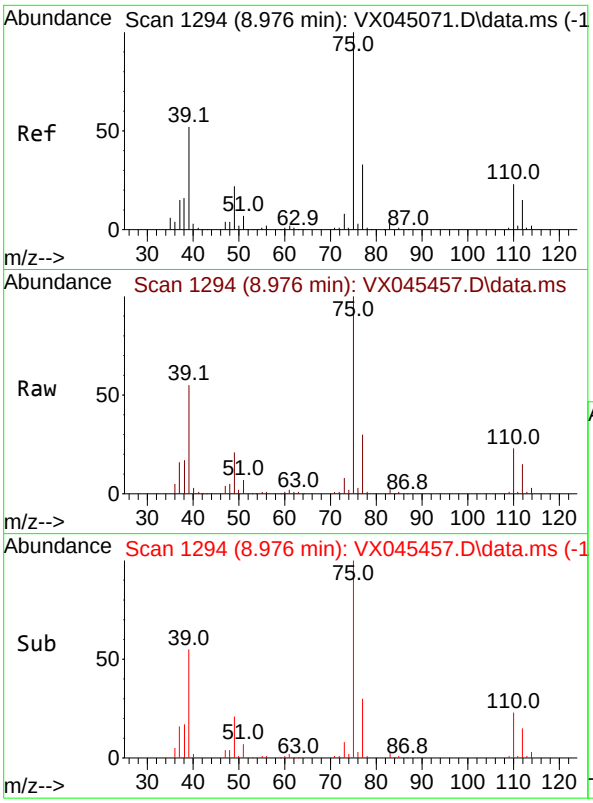


#52
Toluene
Concen: 54.725 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 92 Resp: 145998

Ion	Ratio	Lower	Upper
92	100		
91	172.7	138.9	208.3

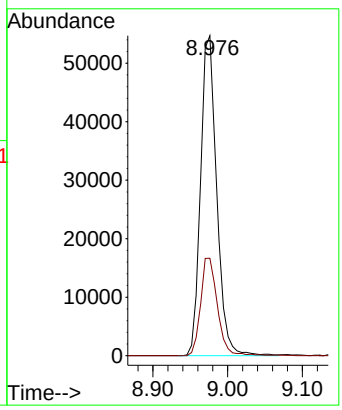




#53
t-1,3-Dichloropropene
Concen: 60.544 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 8203

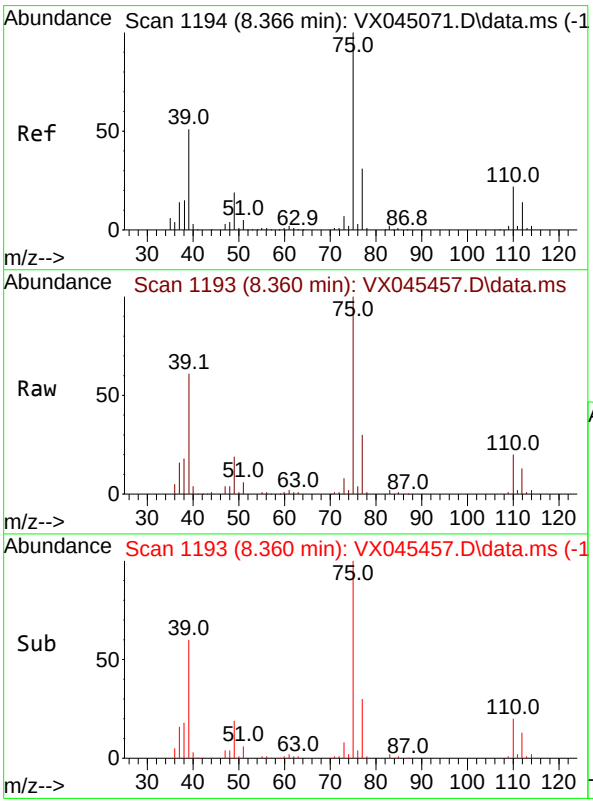
Ion	Ratio	Lower	Upper
75	100		
77	30.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

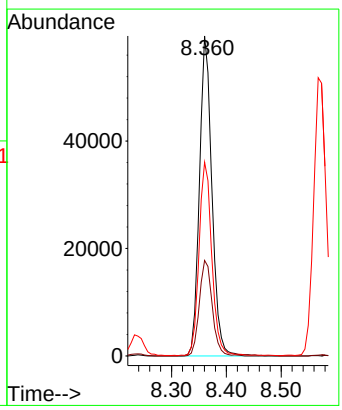
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

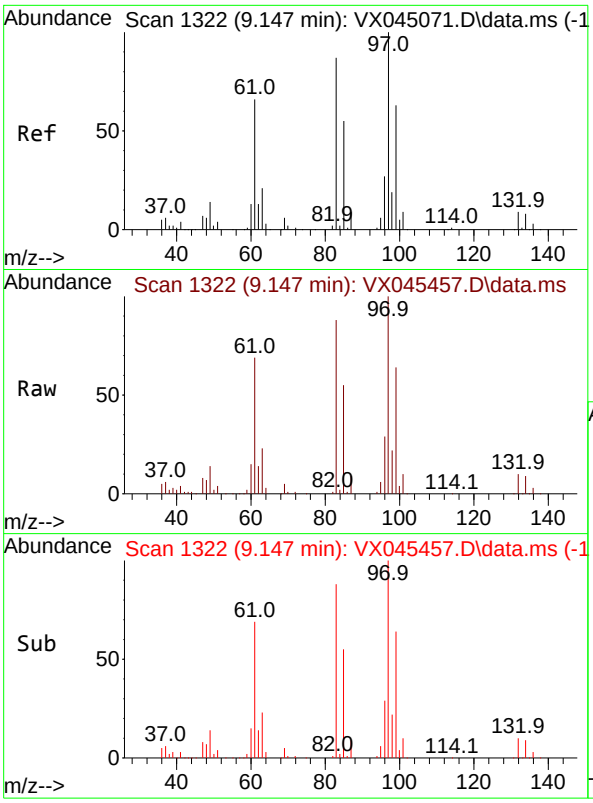


#54
cis-1,3-Dichloropropene
Concen: 59.591 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 94158

Ion	Ratio	Lower	Upper
75	100		
77	29.8	24.7	37.1
39	60.4	40.7	61.1

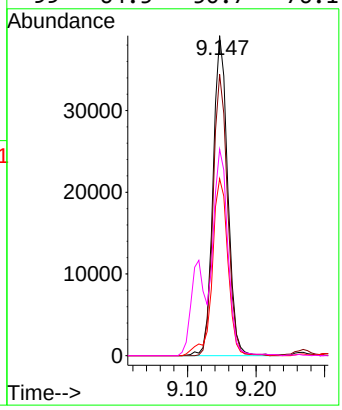




#55
1,1,2-Trichloroethane
Concen: 53.083 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 97 Resp: 5830

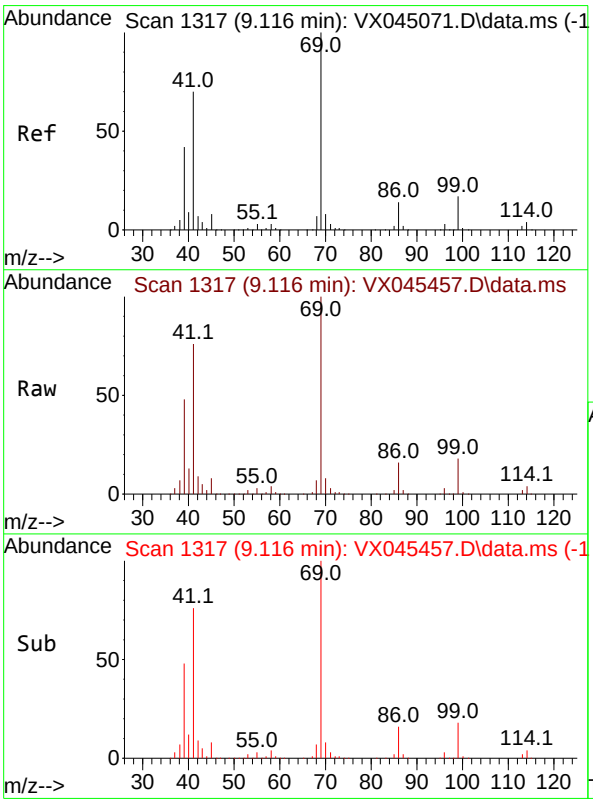
Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.4	104.2
85	55.3	44.1	66.1
99	64.5	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

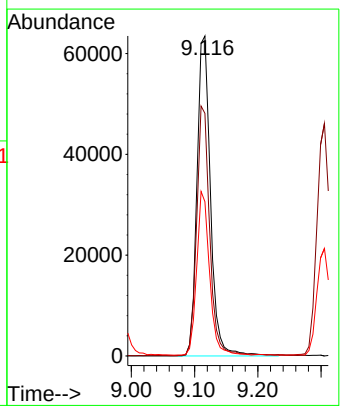
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

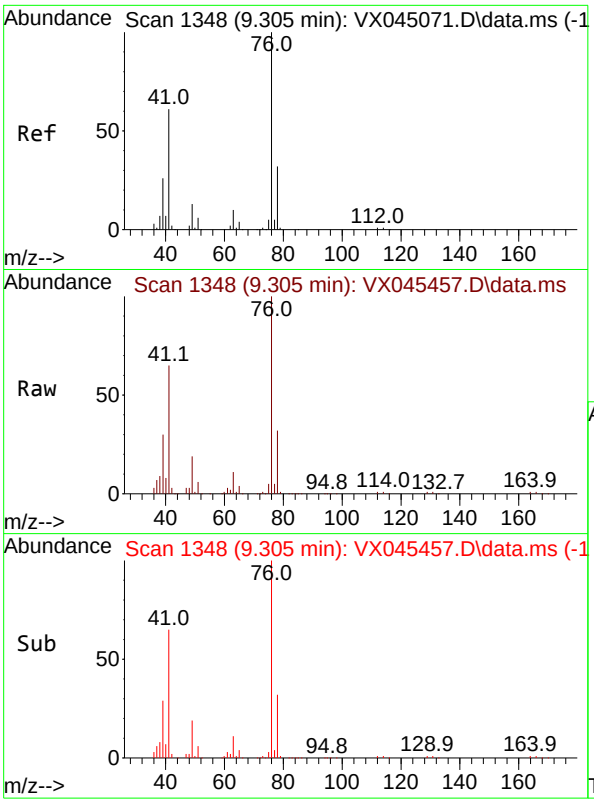


#56
Ethyl methacrylate
Concen: 56.682 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 69 Resp: 94629

Ion	Ratio	Lower	Upper
69	100		
41	75.7	57.0	85.4
39	48.7	34.2	51.4





#57
1,3-Dichloropropane
Concen: 53.783 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

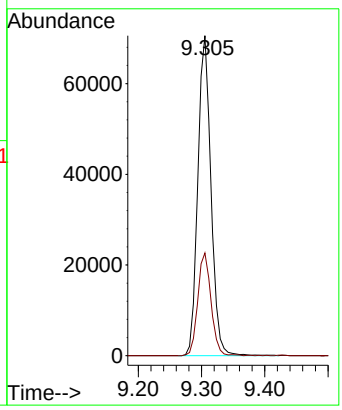
Tgt Ion: 76 Resp: 10222

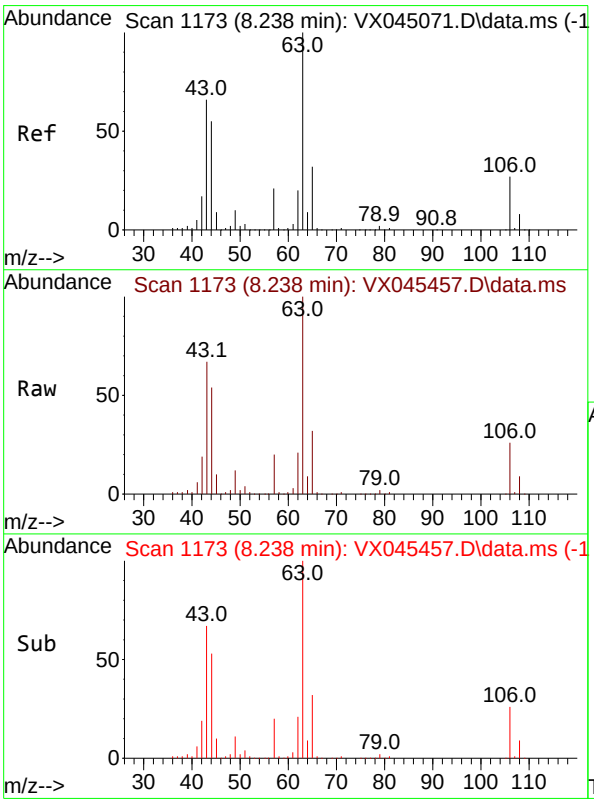
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

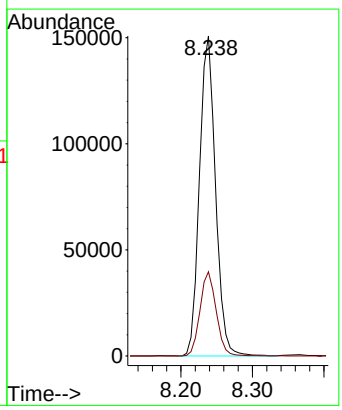


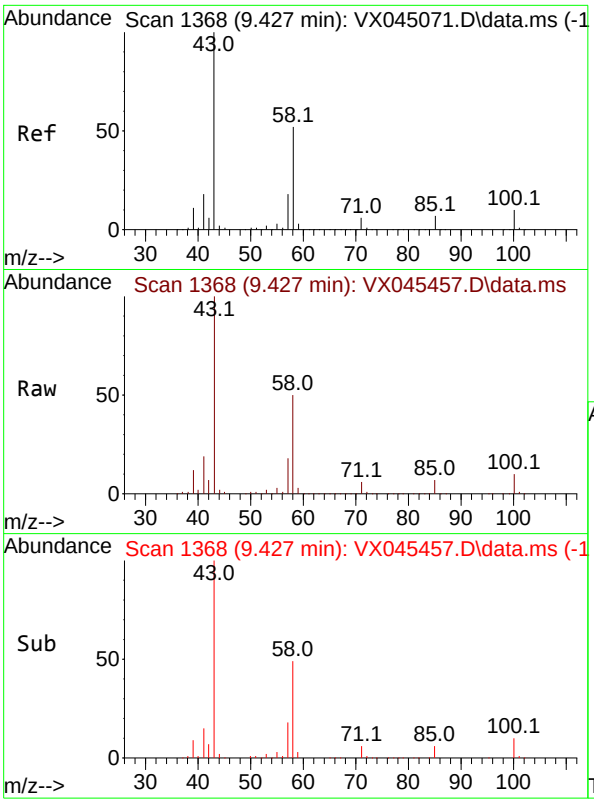


#58
2-Chloroethyl Vinyl ether
Concen: 288.833 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 63 Resp: 235219

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3





#59
2-Hexanone
Concen: 280.504 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

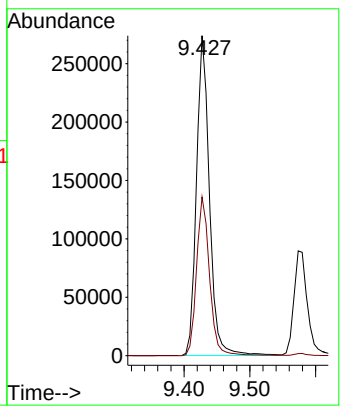
Tgt Ion: 43 Resp: 37441

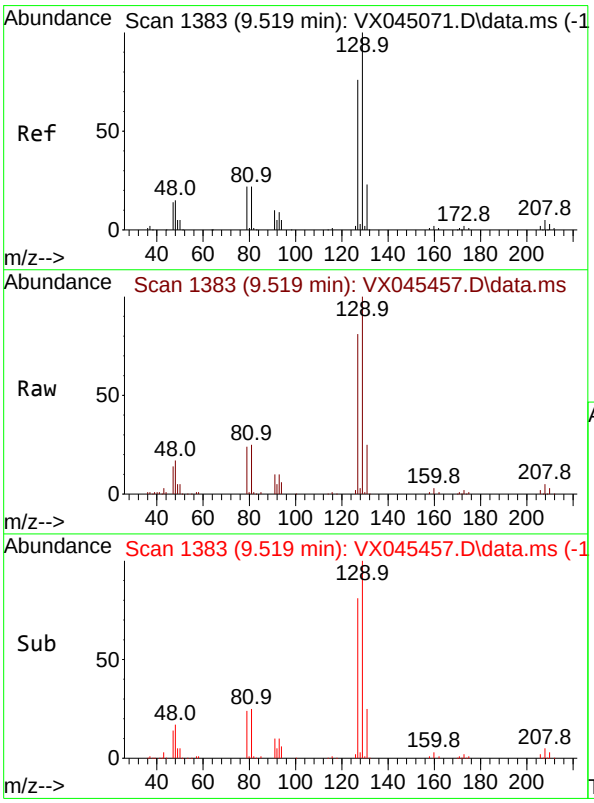
Ion	Ratio	Lower	Upper
43	100		
58	49.8	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

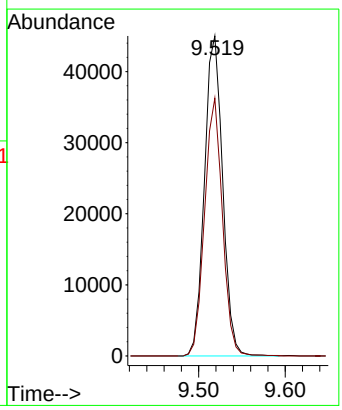


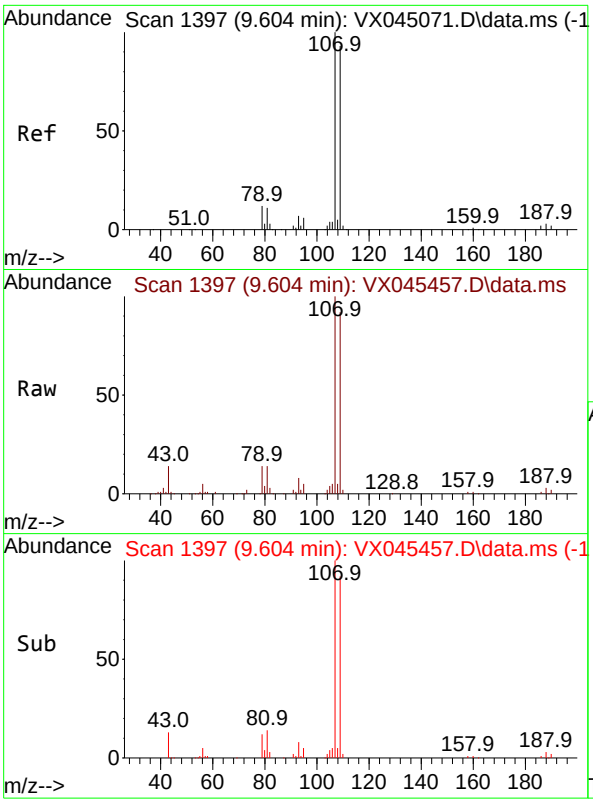


#60
Dibromochloromethane
Concen: 57.231 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:129 Resp: 65721

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 55.319 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

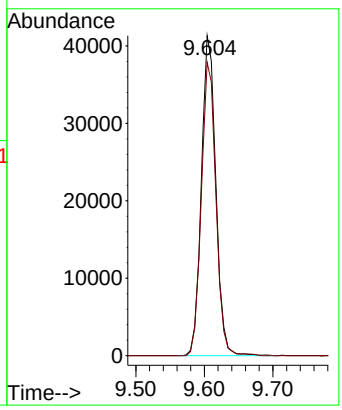
Tgt Ion:107 Resp: 6065

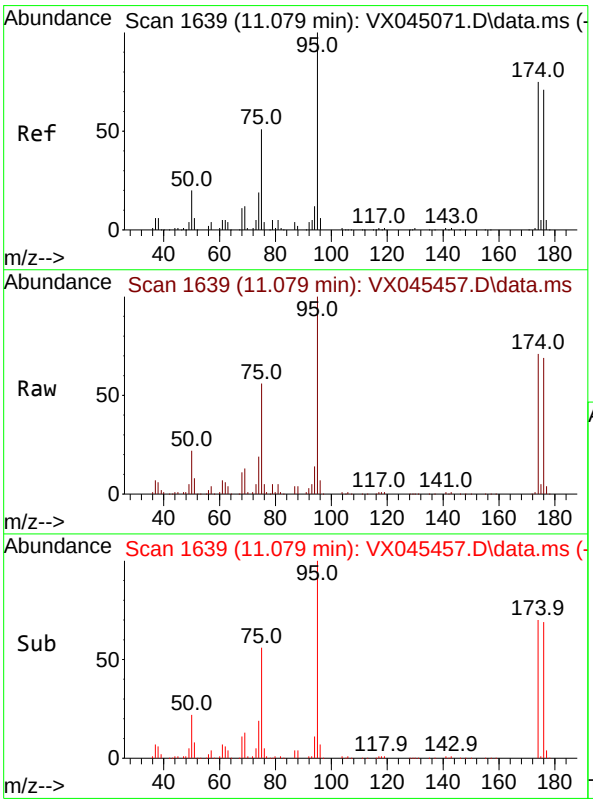
Ion	Ratio	Lower	Upper
107	100		
109	92.4	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

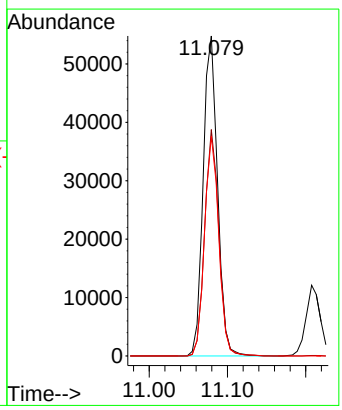


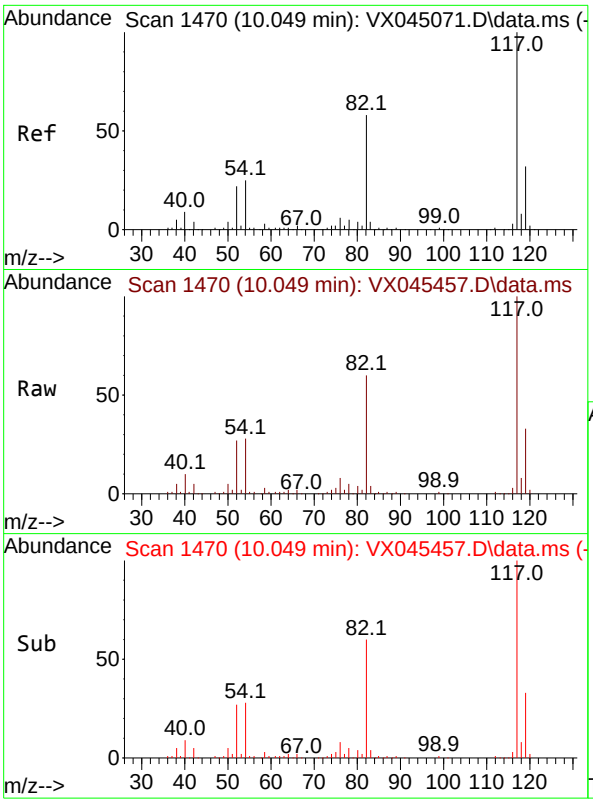


#62
4-Bromofluorobenzene
Concen: 55.238 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 95 Resp: 69676

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	148.2
176	68.1	0.0	141.4

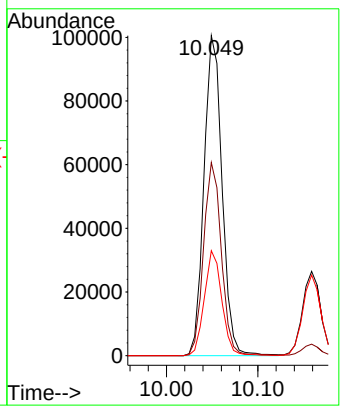




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:117 Resp: 13801

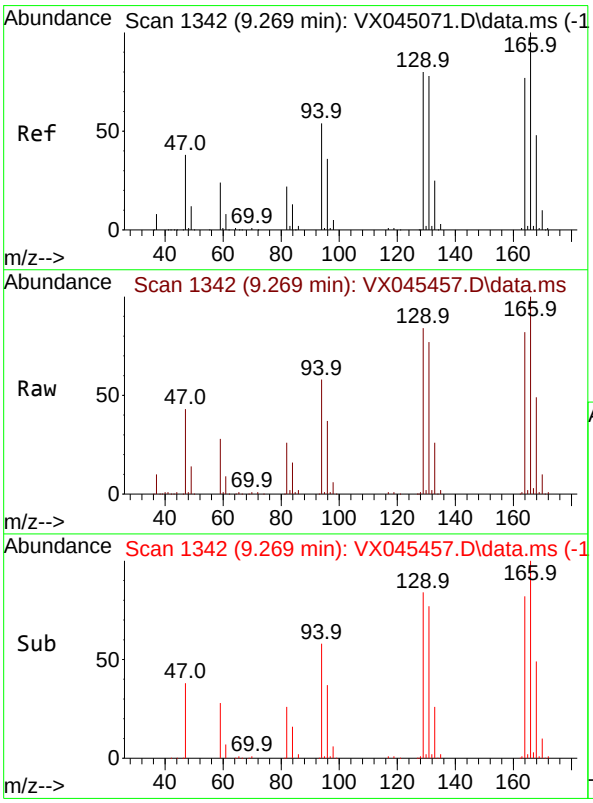
Ion	Ratio	Lower	Upper
117	100		
82	60.4	46.3	69.5
119	32.8	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

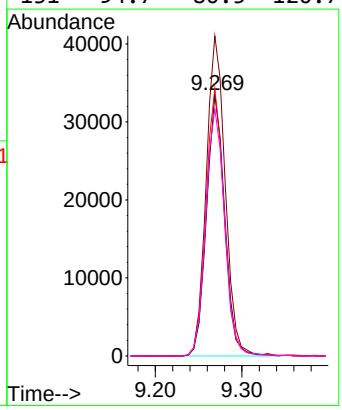
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

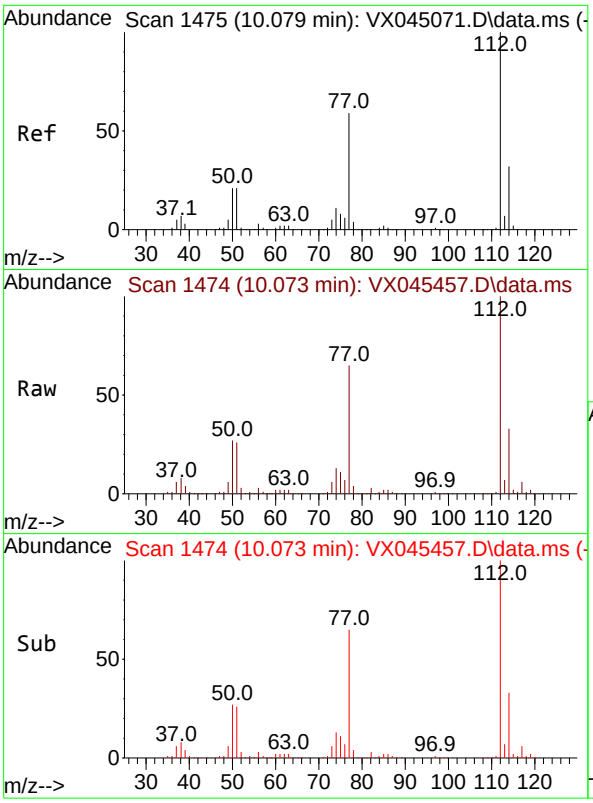


#64
Tetrachloroethene
Concen: 55.374 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:164 Resp: 48945

Ion	Ratio	Lower	Upper
164	100		
166	122.6	103.6	155.4
129	102.5	82.7	124.1
131	94.7	80.5	120.7





#65
Chlorobenzene
Concen: 53.491 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

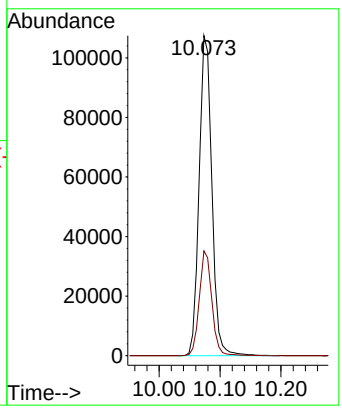
Tgt Ion:112 Resp: 15620

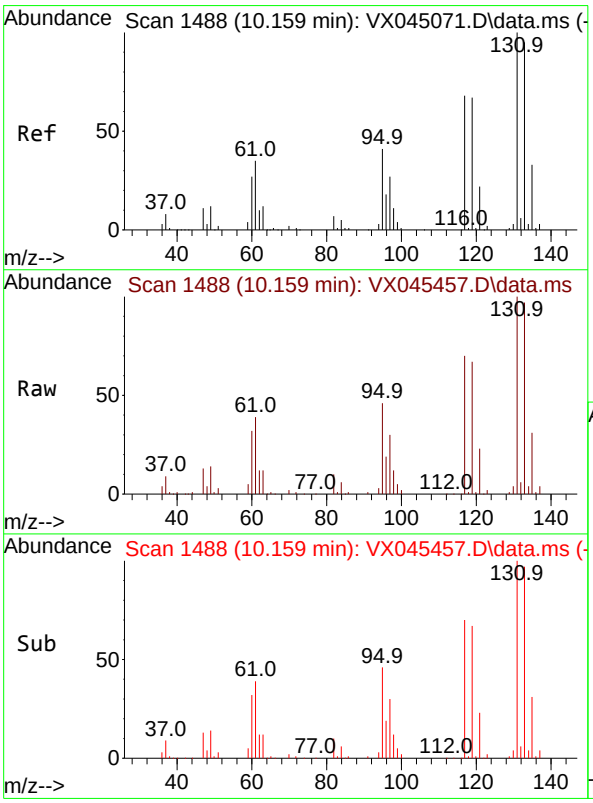
Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

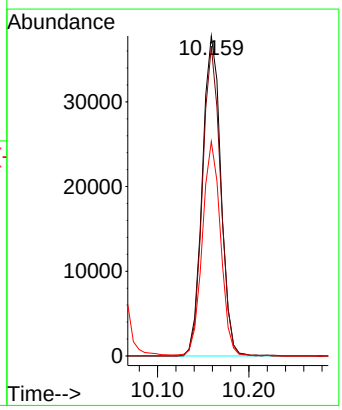


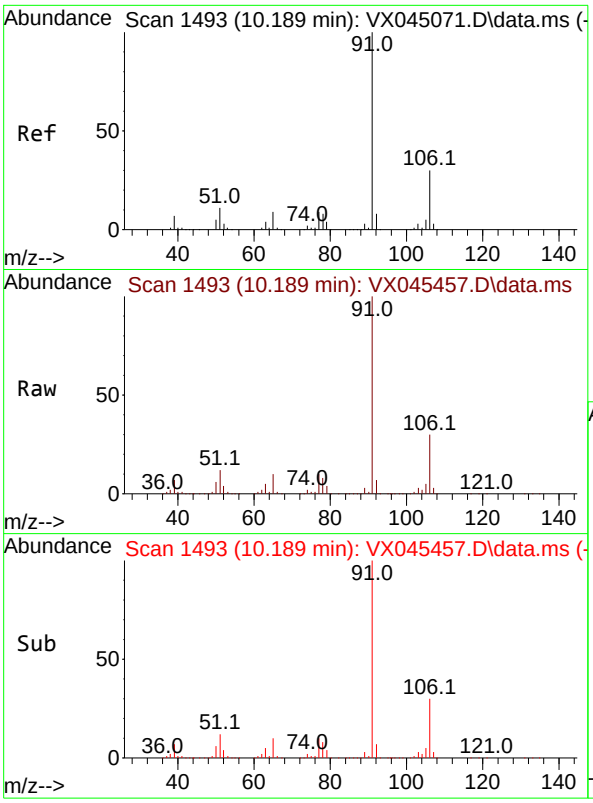


#66
1,1,1,2-Tetrachloroethane
Concen: 54.444 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:131 Resp: 52947

Ion	Ratio	Lower	Upper
131	100		
133	94.7	48.6	145.9
119	66.1	33.9	101.7





#67
Ethyl Benzene
Concen: 55.966 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

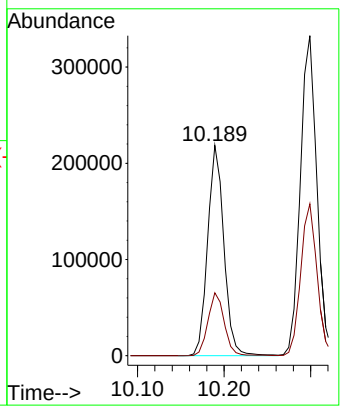
Tgt Ion: 91 Resp: 28477

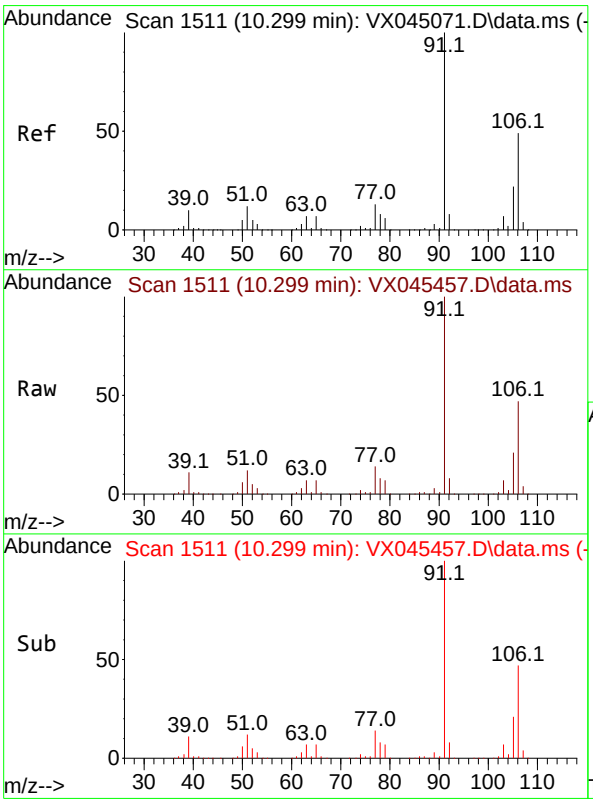
Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

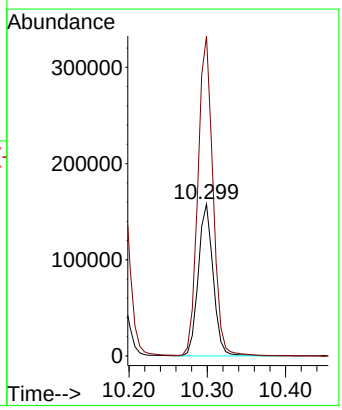


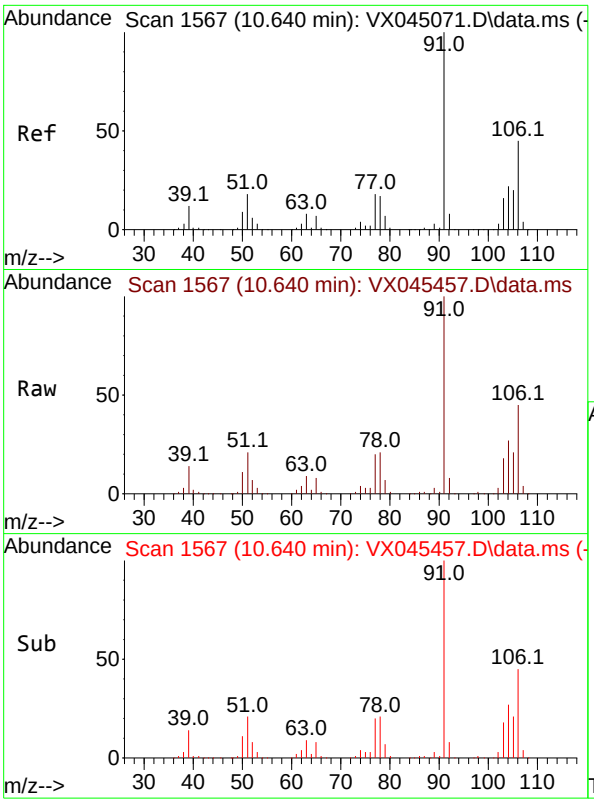


#68
m/p-Xylenes
Concen: 111.797 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:106 Resp: 208248

Ion	Ratio	Lower	Upper
106	100		
91	213.5	165.4	248.0

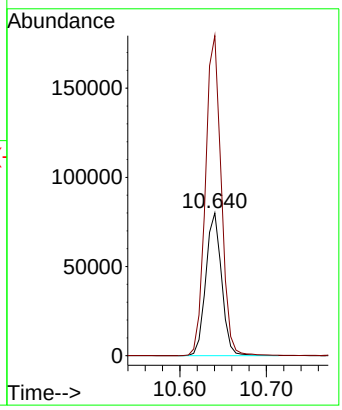




#69
o-Xylene
Concen: 53.800 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:106 Resp: 10107

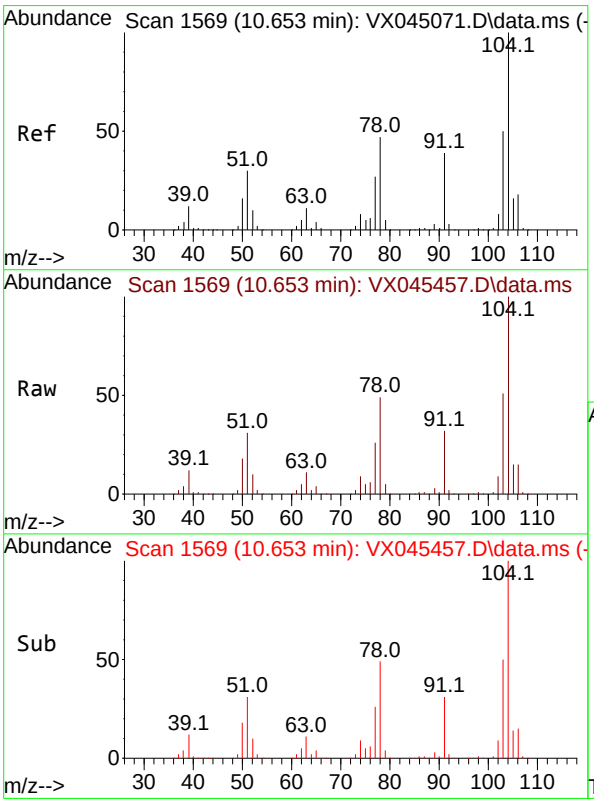
Ion	Ratio	Lower	Upper
106	100		
91	225.4	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

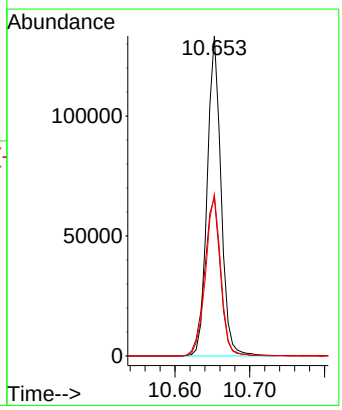
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

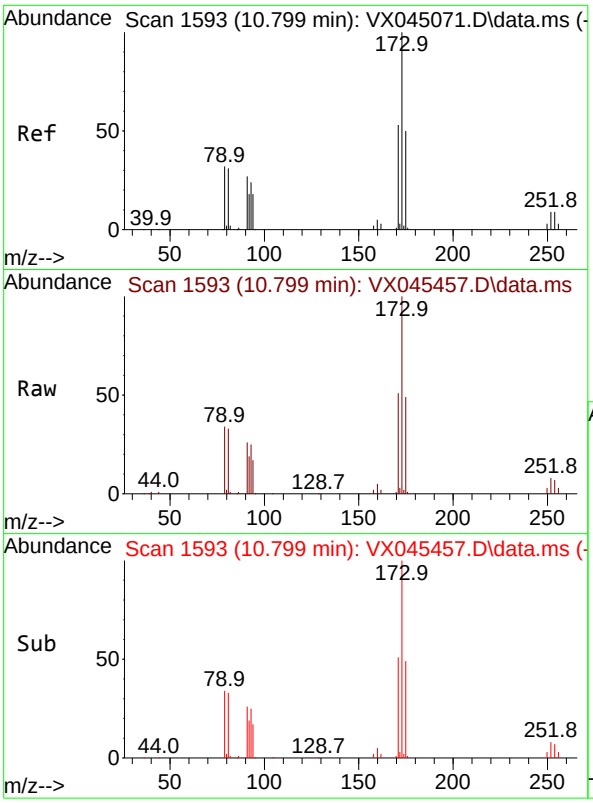


#70
Styrene
Concen: 56.260 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:104 Resp: 171021

Ion	Ratio	Lower	Upper
104	100		
78	56.7	42.2	63.4
103	55.5	43.8	65.8





#71
Bromoform
Concen: 56.960 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

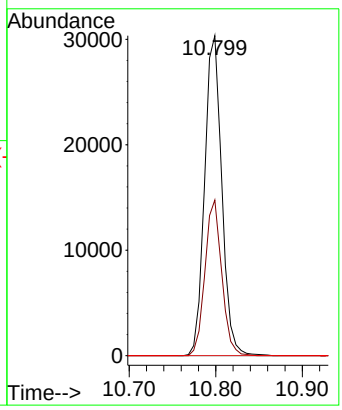
Tgt Ion:173 Resp: 4177

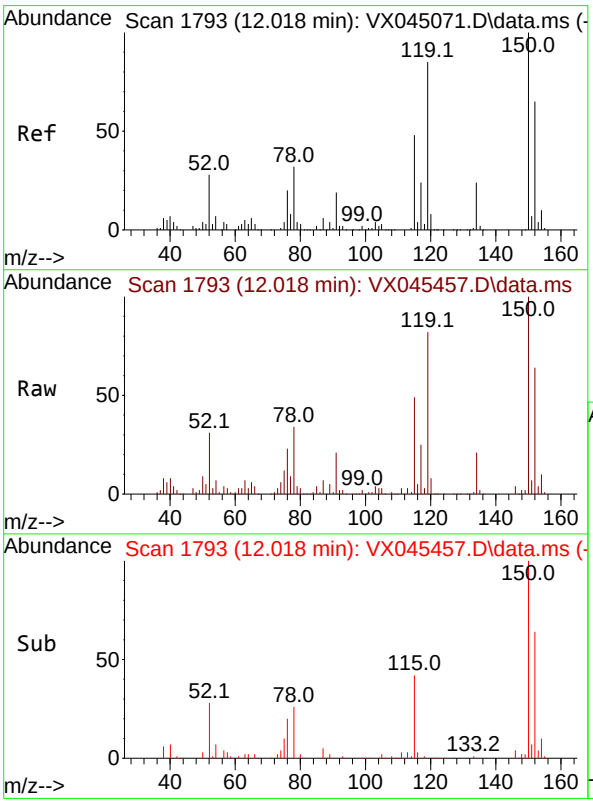
Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

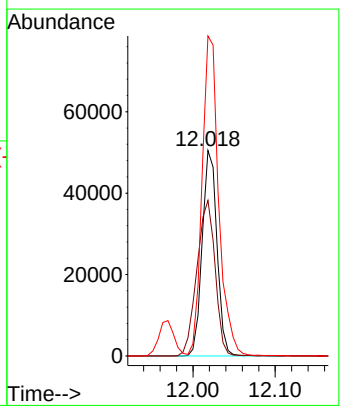


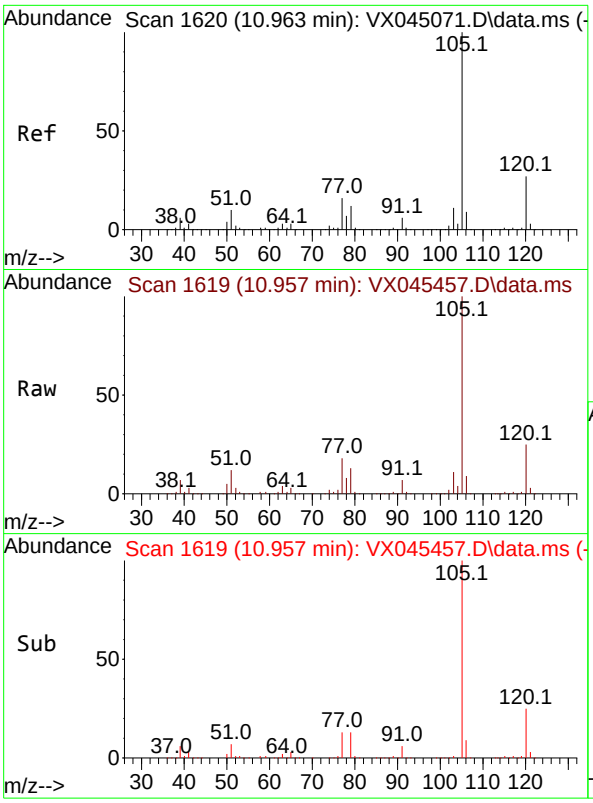


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:152 Resp: 63053

Ion	Ratio	Lower	Upper
152	100		
115	93.2	44.2	132.6
150	175.3	0.0	349.0

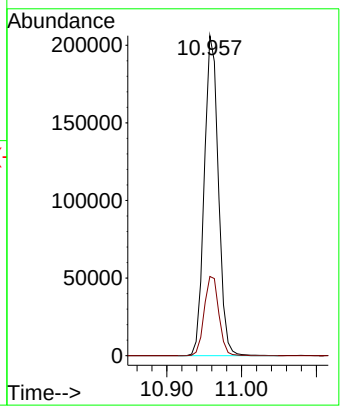




#73
Isopropylbenzene
Concen: 54.796 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:105 Resp: 26967

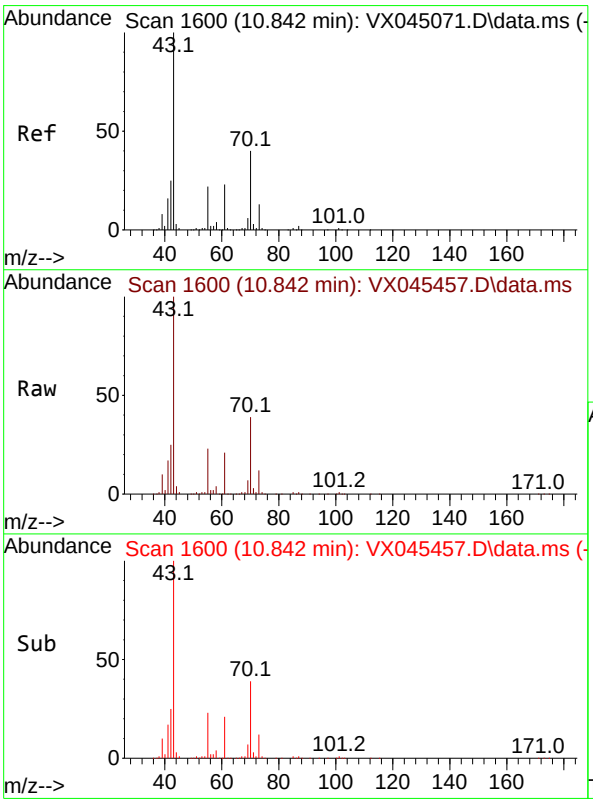
Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

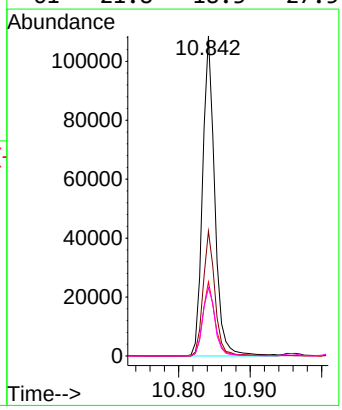
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

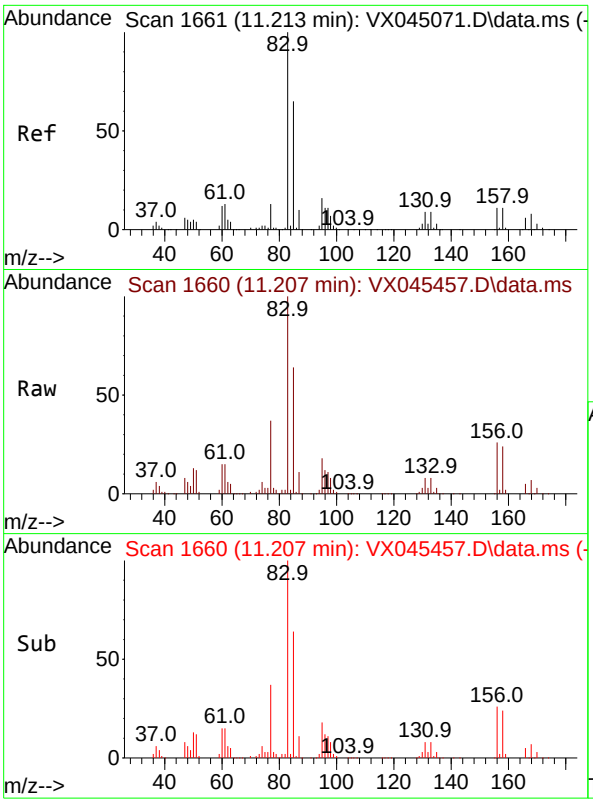


#74
N-amyl acetate
Concen: 55.694 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 128614

Ion	Ratio	Lower	Upper
43	100		
70	38.1	31.8	47.6
55	22.9	18.3	27.5
61	21.8	18.3	27.5

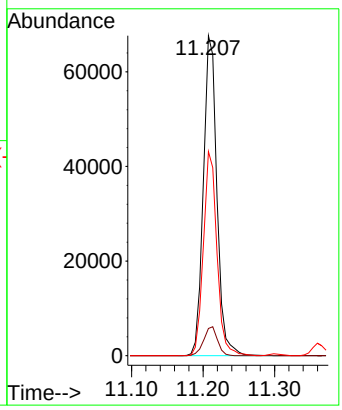




#75
1,1,2,2-Tetrachloroethane
Concen: 49.335 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 83 Resp: 8909

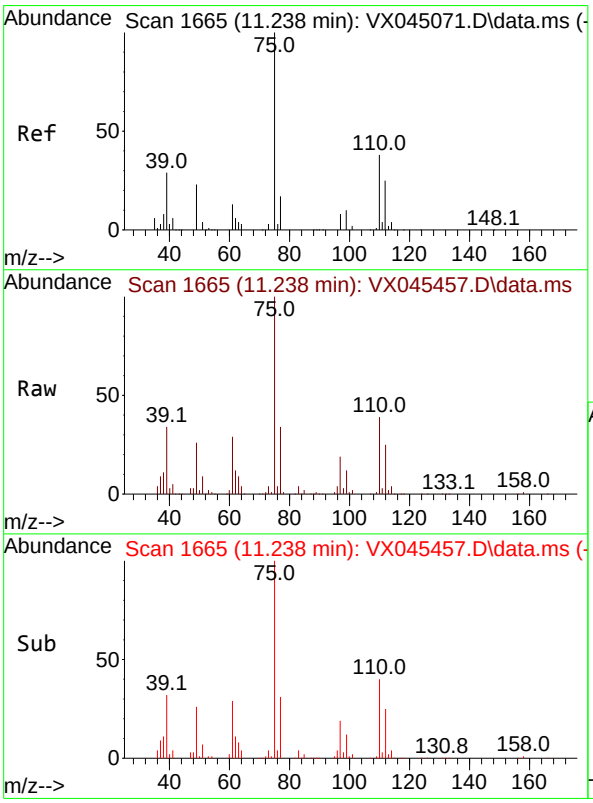
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	63.7	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

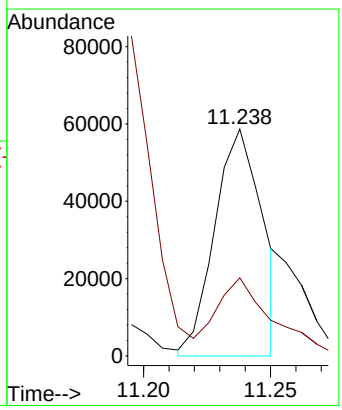
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

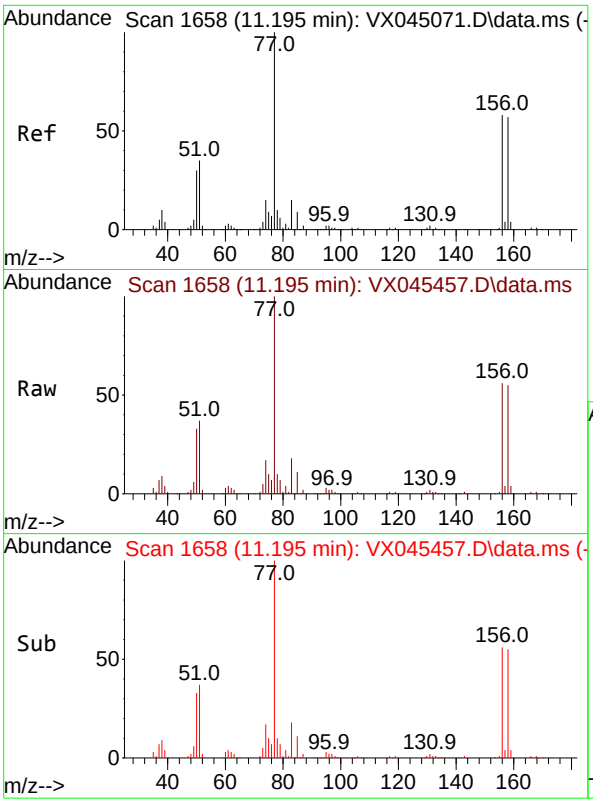


#76
1,2,3-Trichloropropane
Concen: 52.163 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 76552

Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.7	62.1





#77
Bromobenzene
Concen: 51.354 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

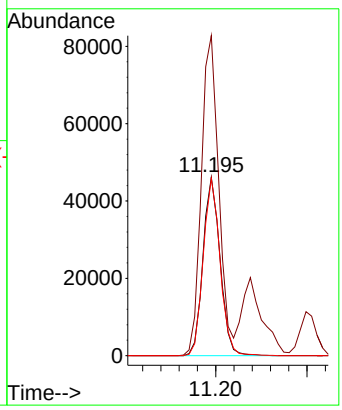
Tgt Ion:156 Resp: 5963

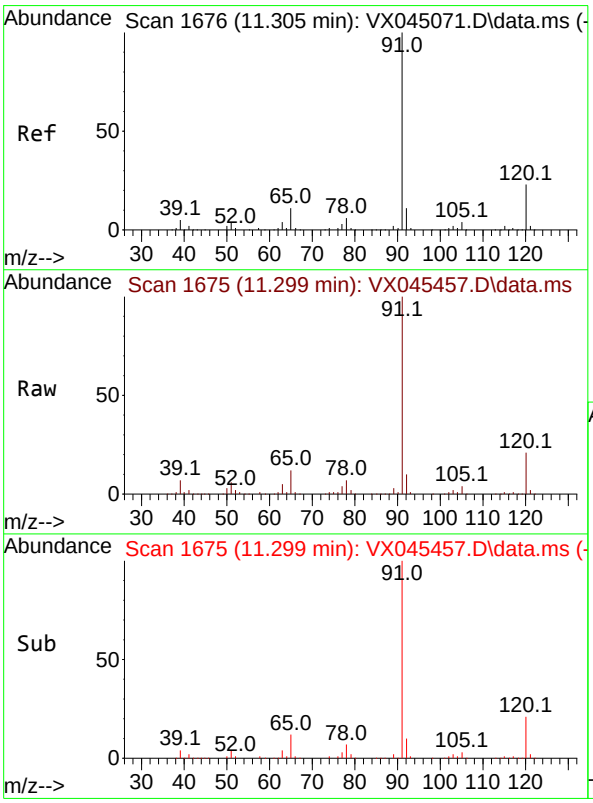
Ion	Ratio	Lower	Upper
156	100		
77	183.3	85.8	257.4
158	98.3	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

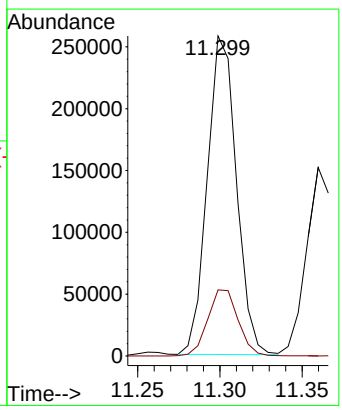


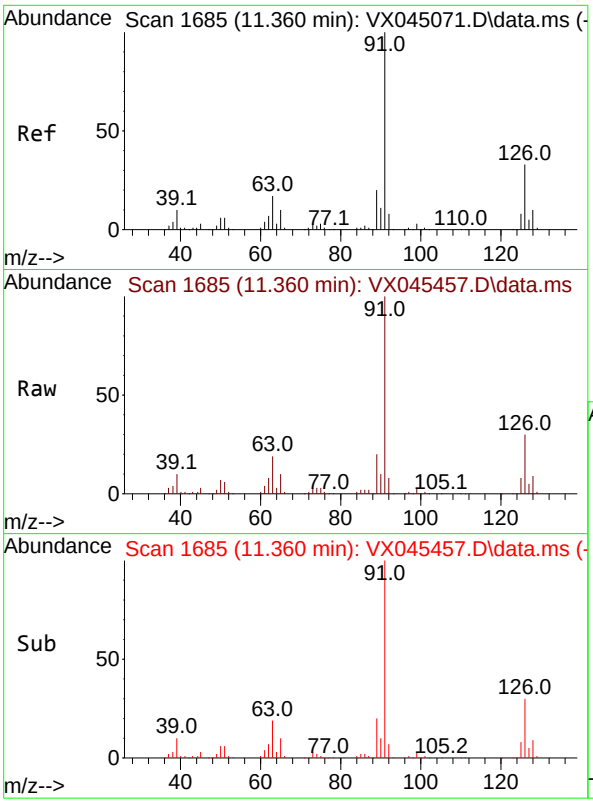


#78
n-propylbenzene
Concen: 57.179 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 91 Resp: 317882

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.2	33.6

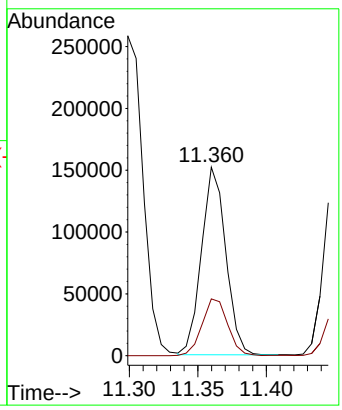




#79
2-Chlorotoluene
Concen: 53.055 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 91 Resp: 18784

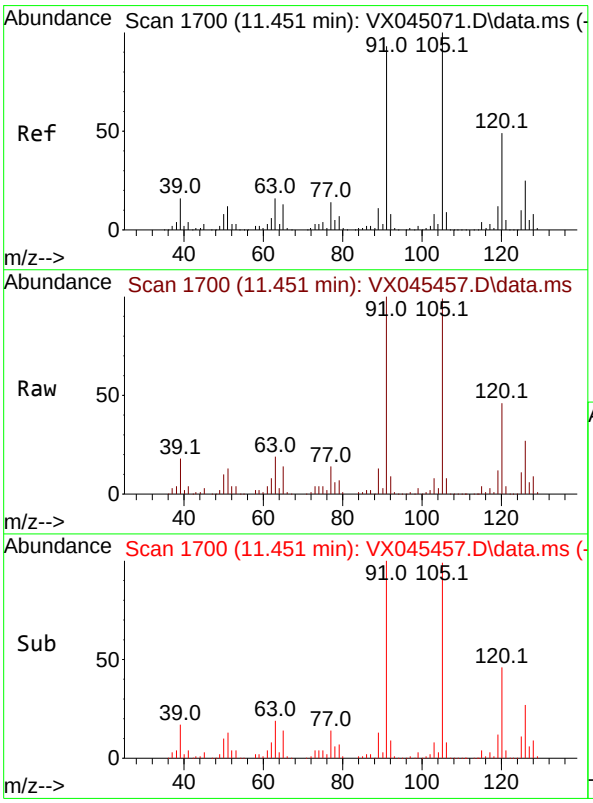
Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

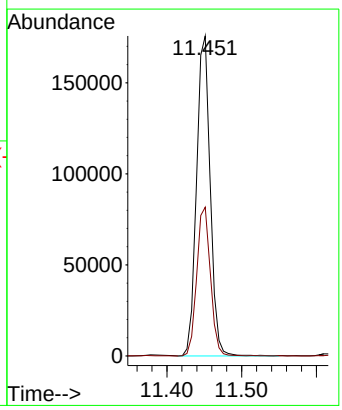
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

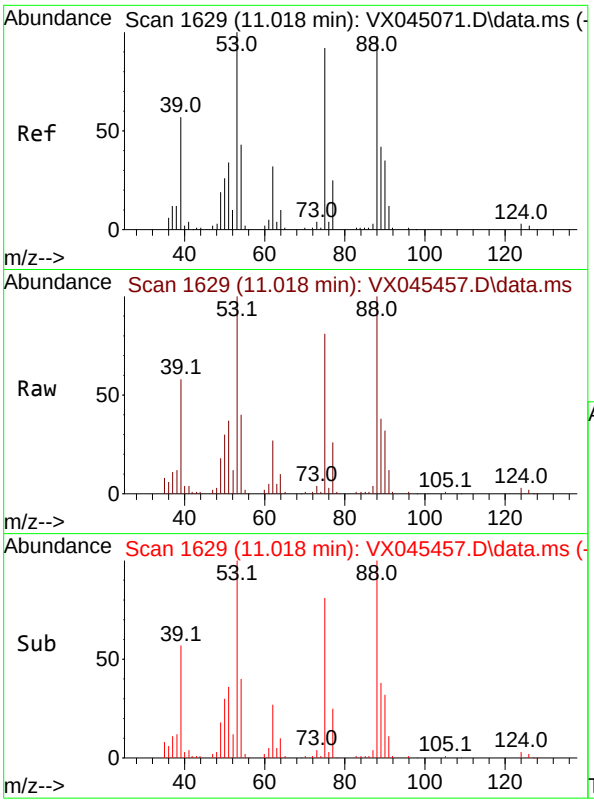


#80
1,3,5-Trimethylbenzene
Concen: 56.020 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:105 Resp: 222923

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 57.854 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

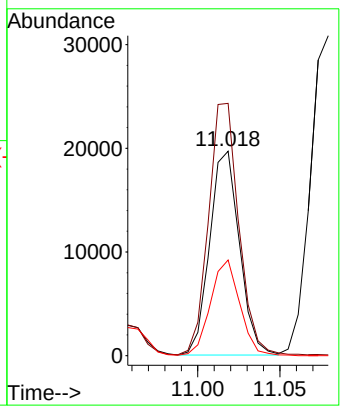
Tgt Ion: 75 Resp: 2481

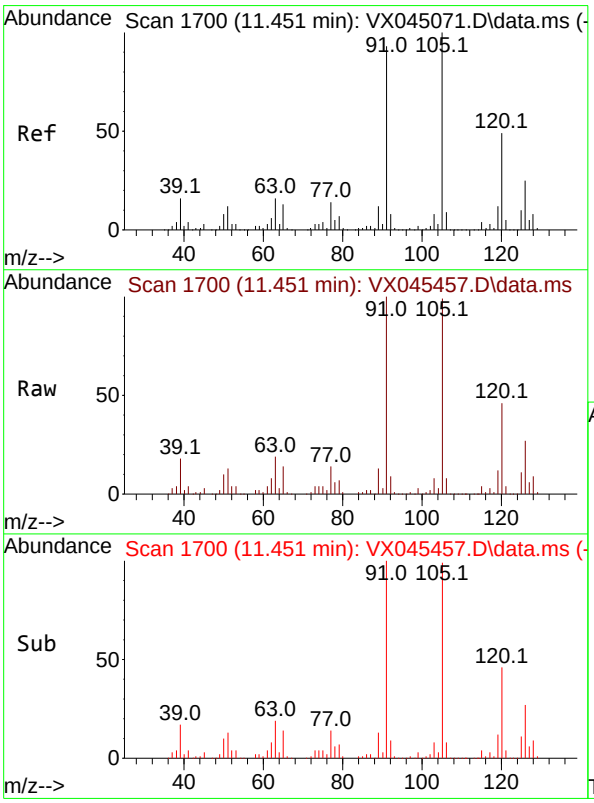
Ion	Ratio	Lower	Upper
75	100		
53	126.9	88.5	132.7
89	46.2	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

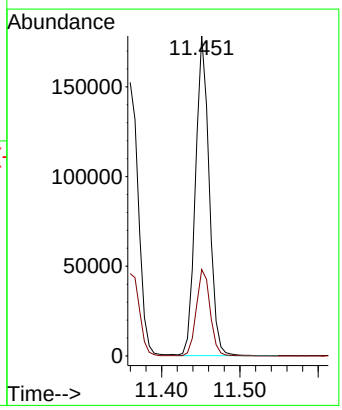


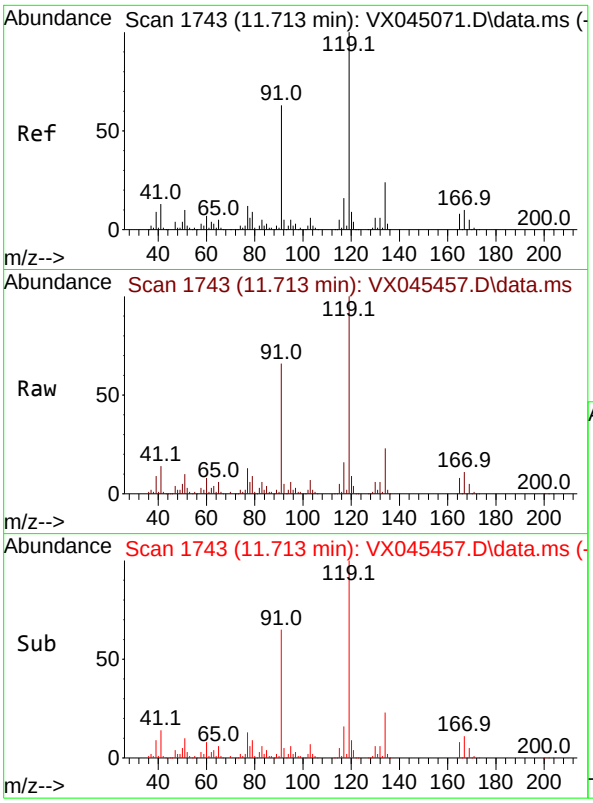


#82
4-Chlorotoluene
Concen: 56.197 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 91 Resp: 216854

Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.1	42.4

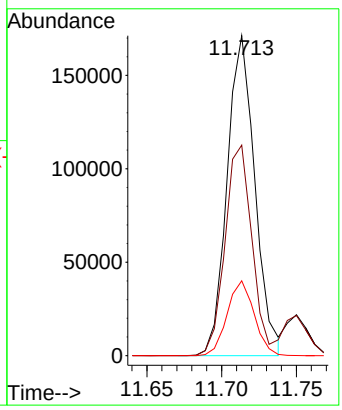




#83
tert-Butylbenzene
Concen: 54.134 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:119 Resp: 22133

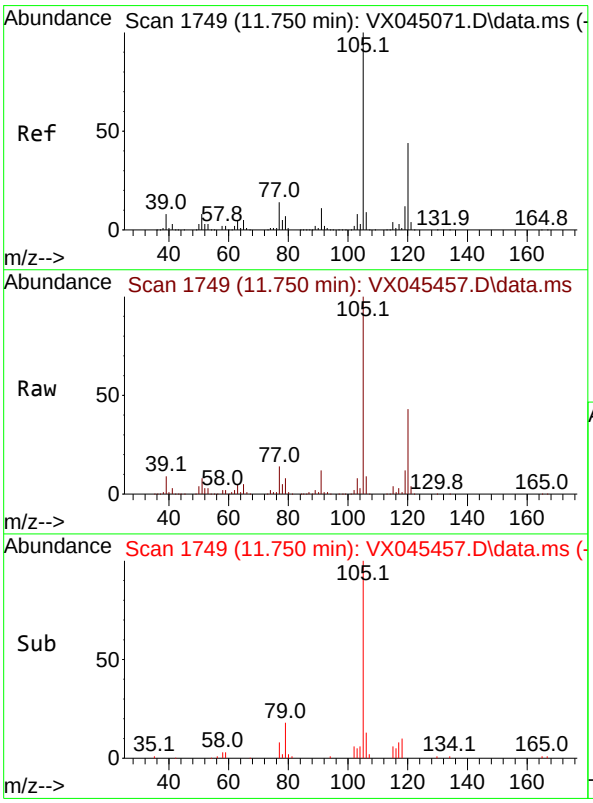
Ion	Ratio	Lower	Upper
119	100		
91	63.5	30.7	92.1
134	22.8	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

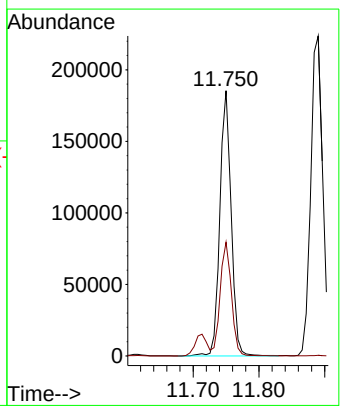
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

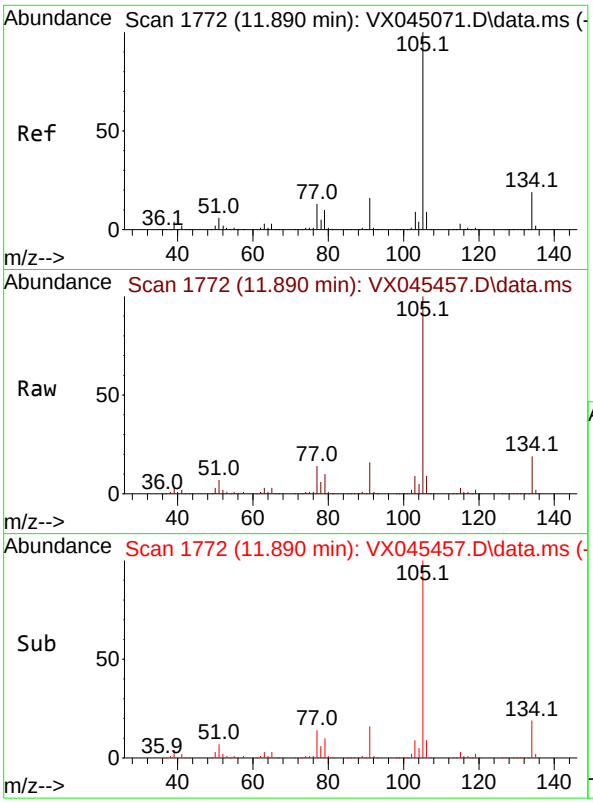


#84
1,2,4-Trimethylbenzene
Concen: 55.448 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:105 Resp: 222016

Ion	Ratio	Lower	Upper
105	100		
120	42.8	22.1	66.1





#85
sec-Butylbenzene
Concen: 57.451 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

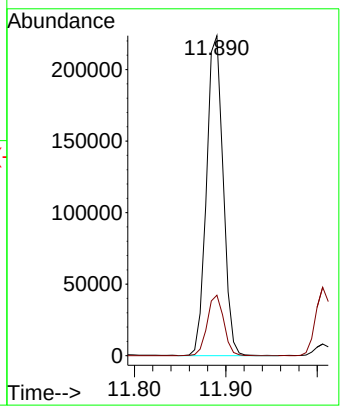
Tgt Ion:105 Resp: 28138

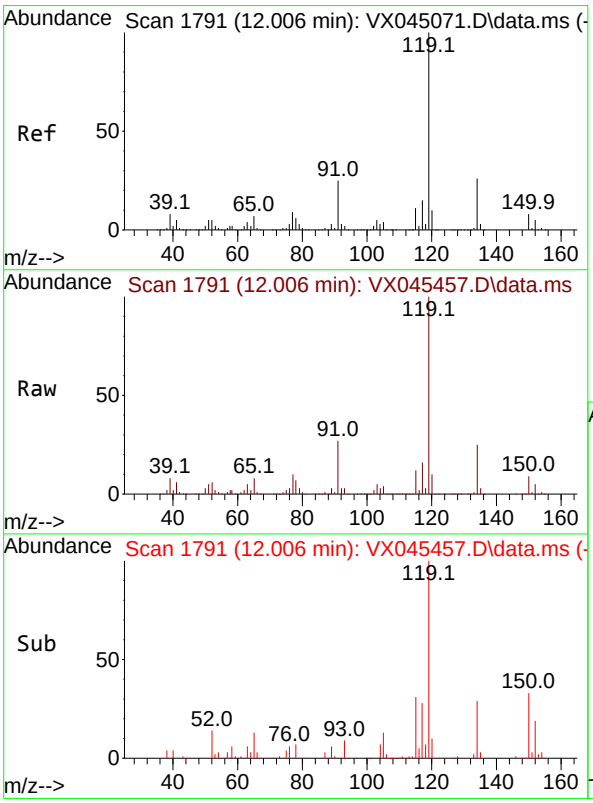
Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

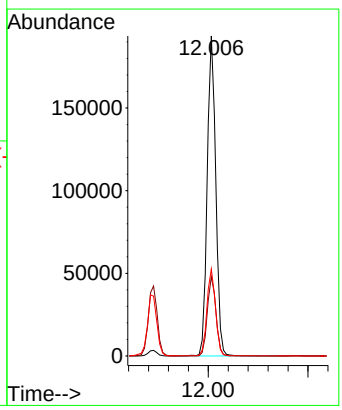


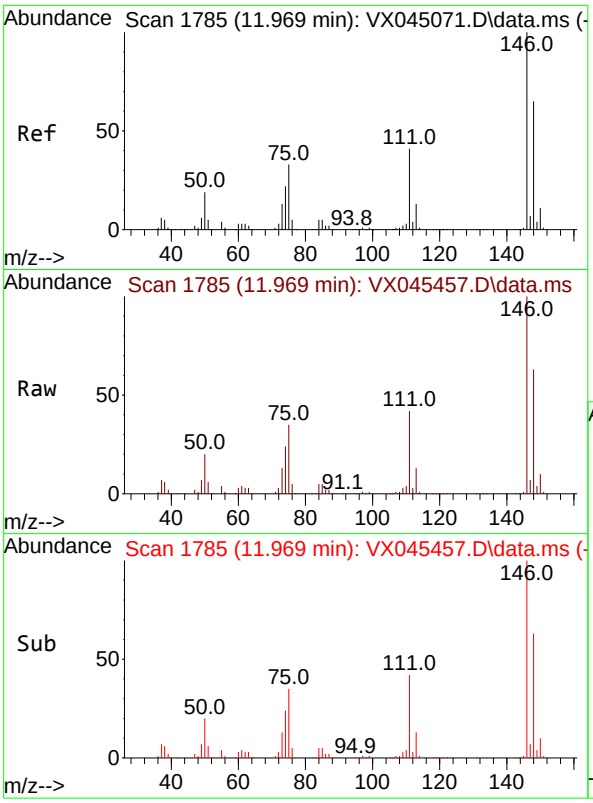


#86
p-Isopropyltoluene
Concen: 58.167 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:119 Resp: 230228

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.9	38.6
91	27.1	12.7	38.0

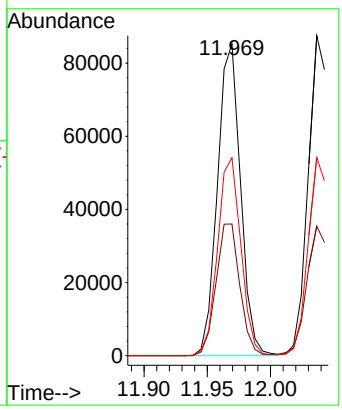




#87
1,3-Dichlorobenzene
Concen: 52.211 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:146 Resp: 10815

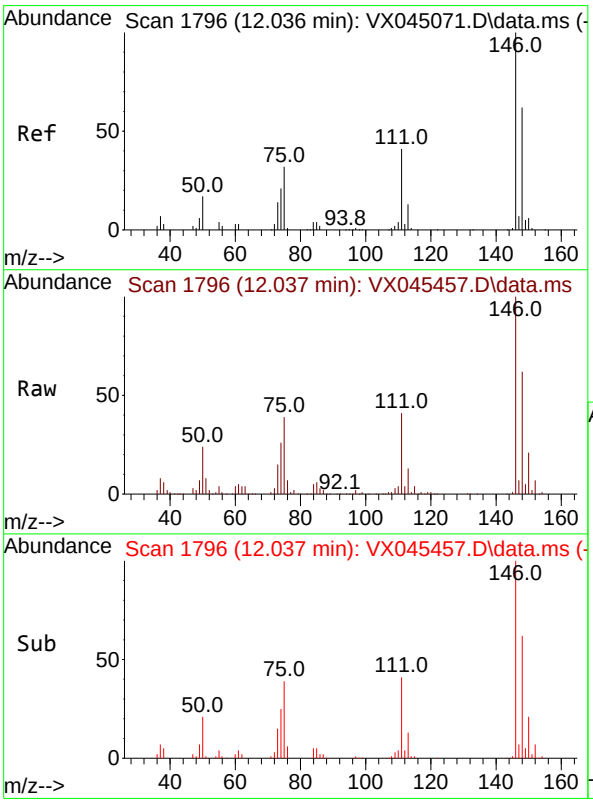
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.4
148	64.0	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

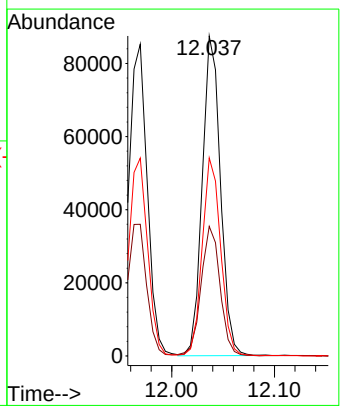
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

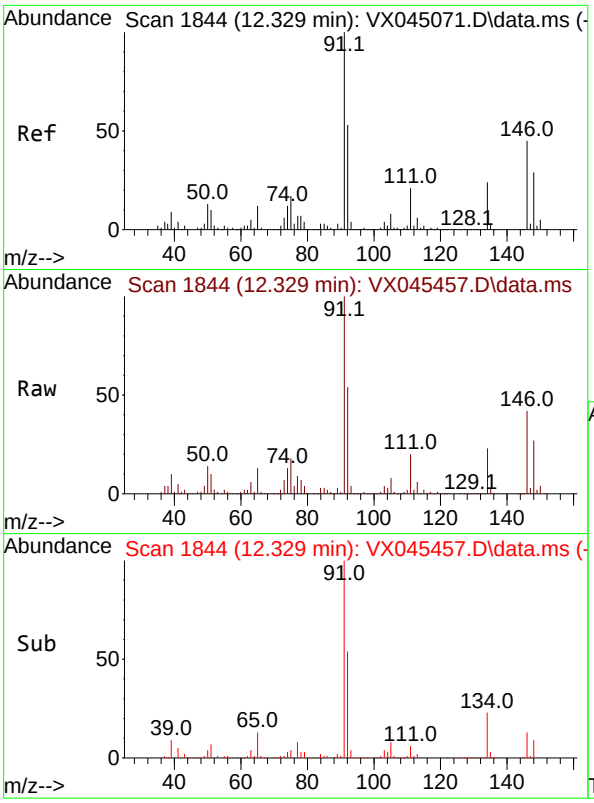


#88
1,4-Dichlorobenzene
Concen: 51.357 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:146 Resp: 107631

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	62.6	31.9	95.9





#89
n-Butylbenzene
Concen: 60.962 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

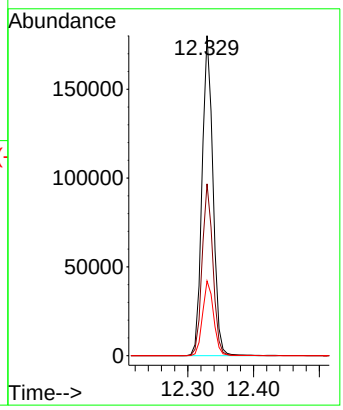
Tgt Ion: 91 Resp: 20781

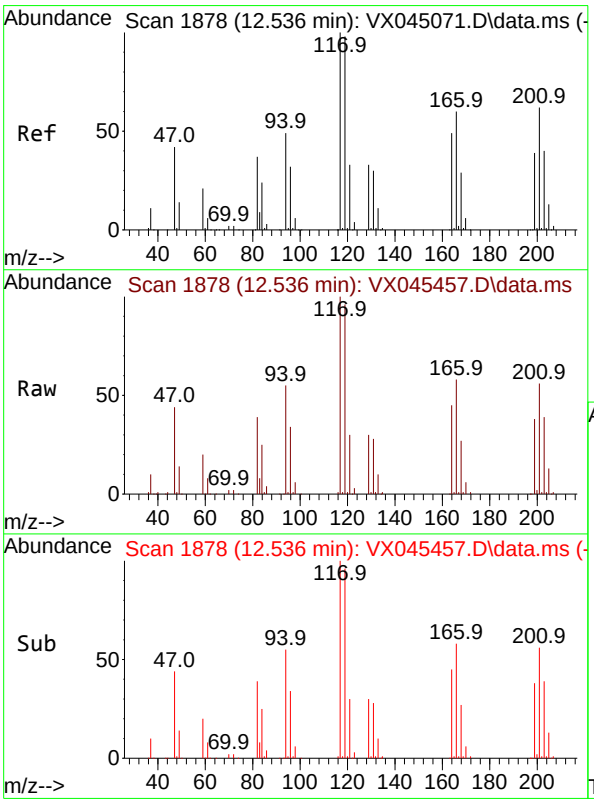
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.0
134	23.6	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

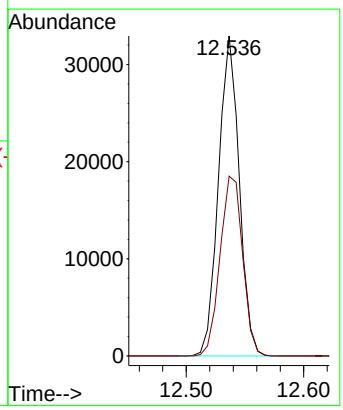


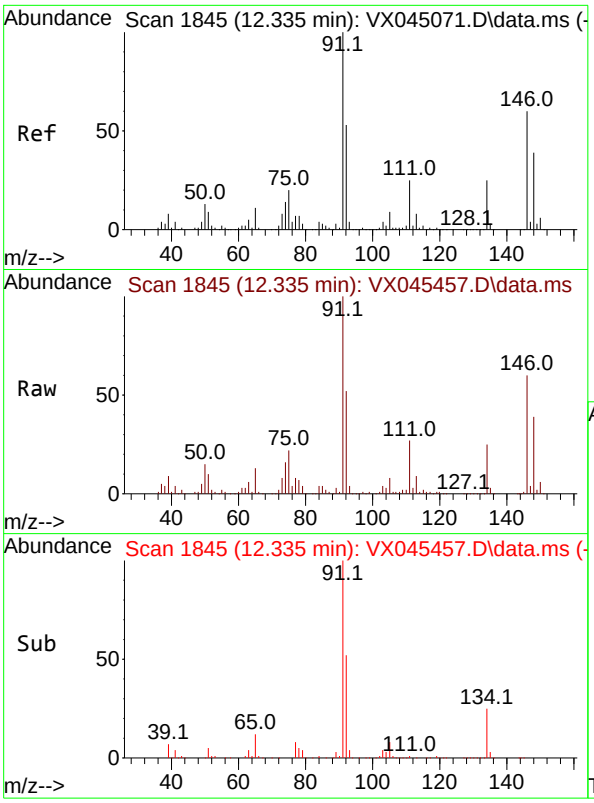


#90
Hexachloroethane
Concen: 56.455 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:117 Resp: 40417

Ion	Ratio	Lower	Upper
117	100		
201	61.2	31.9	95.9

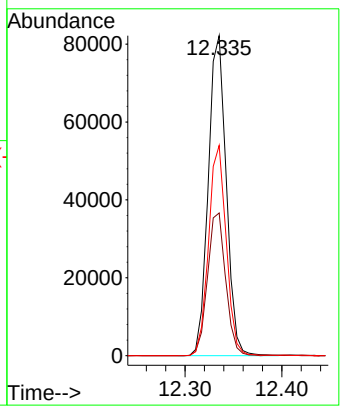




#91
1,2-Dichlorobenzene
Concen: 51.100 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:146 Resp: 10618

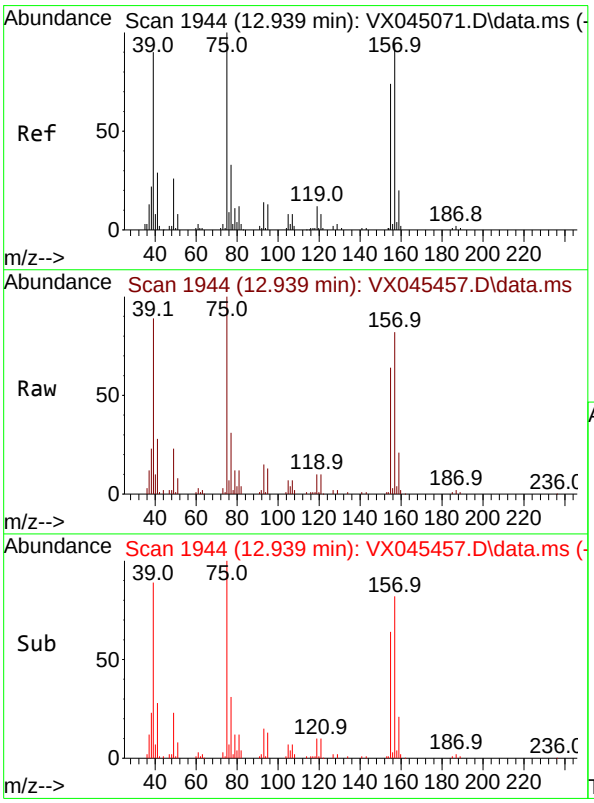
Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.6	65.0
148	64.6	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

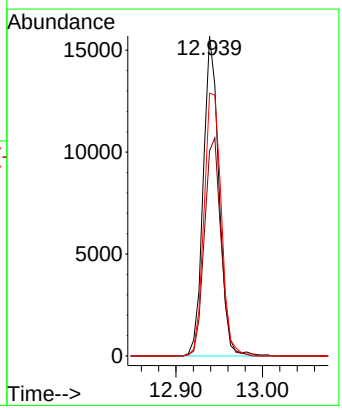
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

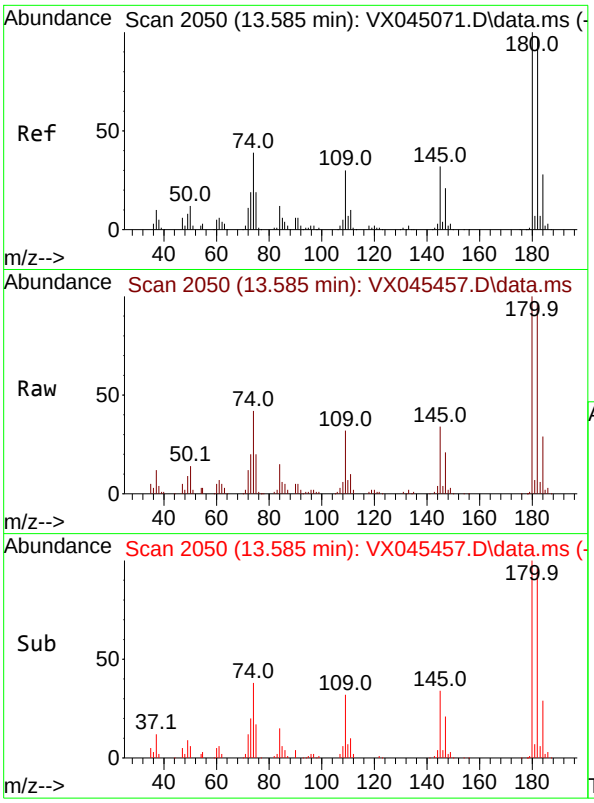


#92
1,2-Dibromo-3-Chloropropane
Concen: 56.165 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 19761

Ion	Ratio	Lower	Upper
75	100		
155	72.2	39.6	118.7
157	90.2	51.1	153.4

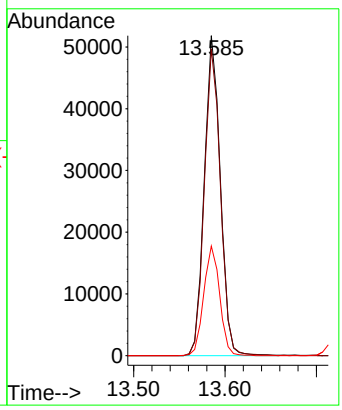




#93
1,2,4-Trichlorobenzene
Concen: 53.203 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:180 Resp: 6295

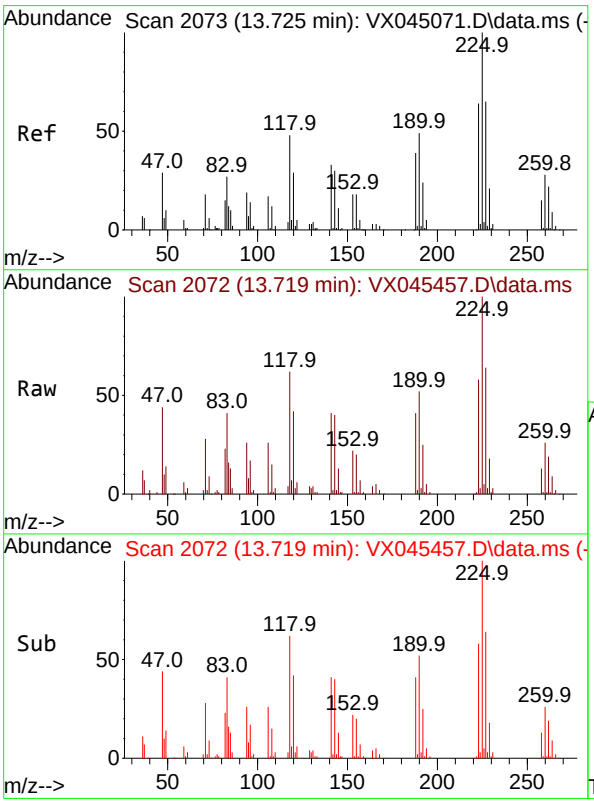
Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.3	141.9
145	34.1	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

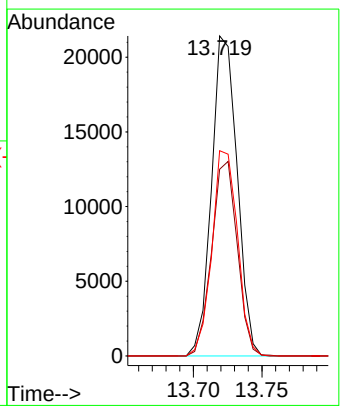
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

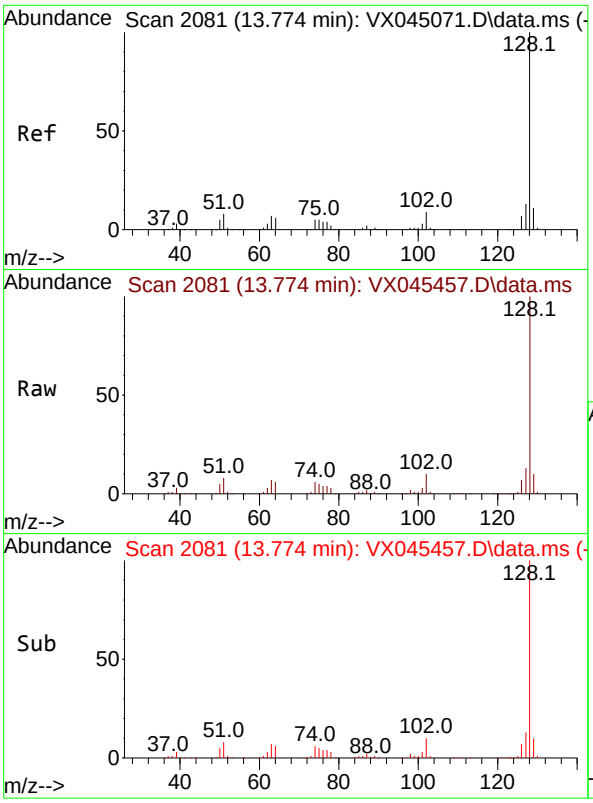


#94
Hexachlorobutadiene
Concen: 57.244 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:225 Resp: 27769

Ion	Ratio	Lower	Upper
225	100		
223	60.9	31.9	95.7
227	64.3	31.4	94.0

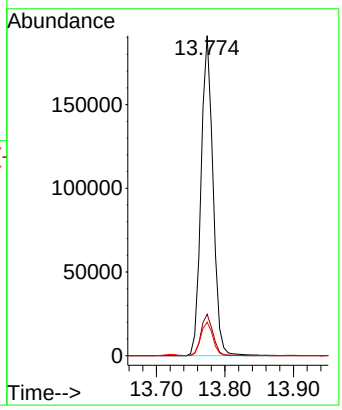




#95
Naphthalene
Concen: 51.221 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

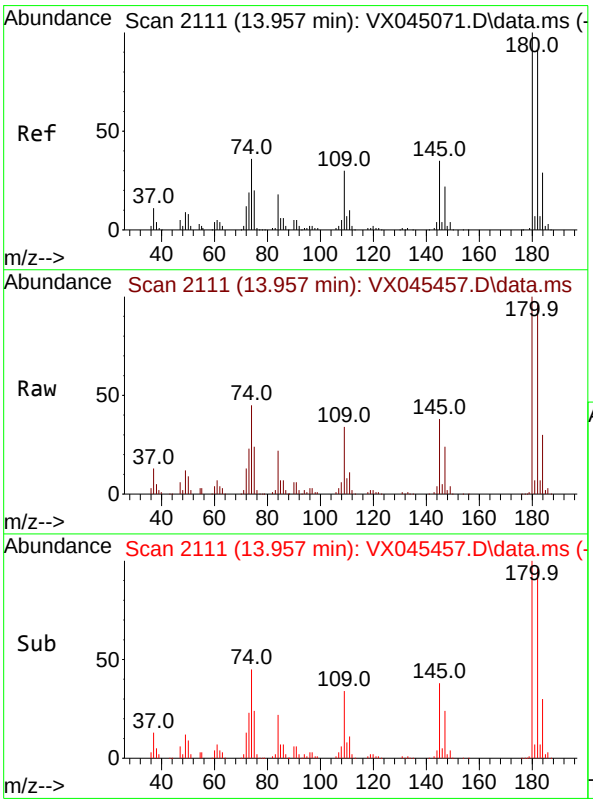
Tgt Ion:128 Resp: 23285

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

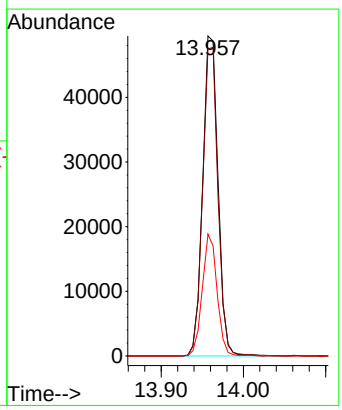
Manual Integrations APPROVED
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.414 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:180 Resp: 64177

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.5	142.6
145	36.7	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	89	-0.01
2	T	Dichlorodifluoromethane	0.629	0.797	-26.7#	113	0.00
3	P	Chloromethane	0.770	0.767	0.4	91	0.00
4	C	Vinyl Chloride	0.764	0.728	4.7#	85	0.00
5	T	Bromomethane	0.300	0.338	-12.7	103	0.00
6	T	Chloroethane	0.352	0.394	-11.9	94	0.00
7	T	Trichlorofluoromethane	1.011	1.079	-6.7	92	0.00
8	T	Diethyl Ether	0.396	0.348	12.1	80	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.681	-17.2	102	0.00
10	T	Methyl Iodide	0.726	0.799	-10.1	93	0.00
11	T	Tert butyl alcohol	0.151	0.116	23.2	77	0.00
12	CM	1,1-Dichloroethene	0.614	0.637	-3.7#	91	0.00
13	T	Acrolein	0.174	0.193	-10.9	99	0.00
14	T	Allyl chloride	1.094	1.192	-9.0	96	0.00
15	T	Acrylonitrile	0.404	0.403	0.2	88	0.00
16	T	Acetone	0.369	0.430	-16.5	109	0.00
17	T	Carbon Disulfide	1.636	1.630	0.4	87	0.00
18	T	Methyl Acetate	0.888	0.831	6.4	85	0.00
19	T	Methyl tert-butyl Ether	2.061	2.084	-1.1	89	0.00
20	T	Methylene Chloride	0.731	0.719	1.6	92	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.640	-5.4	90	0.00
22	T	Diisopropyl ether	2.224	2.287	-2.8	89	0.00
23	T	Vinyl Acetate	1.856	2.047	-10.3	92	0.00
24	P	1,1-Dichloroethane	1.247	1.286	-3.1	92	0.00
25	T	2-Butanone	0.555	0.589	-6.1	91	-0.01
26	T	2,2-Dichloropropane	0.585	0.916	-56.6#	137	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.757	-1.1	88	0.00
28	T	Bromochloromethane	0.594	0.619	-4.2	91	0.00
29	T	Tetrahydrofuran	0.373	0.365	2.1	87	0.00
30	C	Chloroform	1.239	1.300	-4.9#	93	0.00
31	T	Cyclohexane	1.082	1.149	-6.2	92	0.00
32	T	1,1,1-Trichloroethane	1.000	1.097	-9.7	95	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.847	-6.5	100	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35	S	Dibromofluoromethane	0.334	0.361	-8.1	92	-0.01
36	T	1,1-Dichloropropene	0.459	0.507	-10.5	91	-0.01
37	T	Ethyl Acetate	0.591	0.639	-8.1	89	0.00
38	T	Carbon Tetrachloride	0.465	0.551	-18.5	99	0.00
39	T	Methylcyclohexane	0.549	0.665	-21.1	96	0.00
40	TM	Benzene	1.448	1.526	-5.4	86	0.00
41	T	Methacrylonitrile	0.319	0.351	-10.0	87	0.00
42	TM	1,2-Dichloroethane	0.521	0.613	-17.7	98	0.00
43	T	Isopropyl Acetate	0.874	0.983	-12.5	89	0.00
44	TM	Trichloroethene	0.340	0.363	-6.8	90	0.00
45	C	1,2-Dichloropropane	0.372	0.391	-5.1#	89	0.00
46	T	Dibromomethane	0.263	0.297	-12.9	93	0.00
47	T	Bromodichloromethane	0.516	0.597	-15.7	96	0.00
48	T	Methyl methacrylate	0.438	0.499	-13.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	80	0.00
50	S	Toluene-d8	1.212	1.218	-0.5	85	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.648	-10.4	90	0.00
52	CM	Toluene	0.849	0.930	-9.5#	87	0.00
53	T	t-1,3-Dichloropropene	0.431	0.522	-21.1	94	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.600	-19.3	94	0.00
55	T	1,1,2-Trichloroethane	0.350	0.371	-6.0	88	0.00
56	T	Ethyl methacrylate	0.532	0.603	-13.3	89	0.00
57	T	1,3-Dichloropropane	0.605	0.651	-7.6	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.300	-15.8	89	0.00
59	T	2-Hexanone	0.425	0.477	-12.2	90	0.00
60	T	Dibromochloromethane	0.366	0.419	-14.5	92	0.00
61	T	1,2-Dibromoethane	0.349	0.386	-10.6	91	0.00
62	S	4-Bromofluorobenzene	0.402	0.444	-10.4	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
64	T	Tetrachloroethene	0.320	0.355	-10.9	93	0.00
65	PM	Chlorobenzene	1.058	1.132	-7.0	88	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.384	-9.1	92	0.00
67	C	Ethyl Benzene	1.843	2.063	-11.9#	90	0.00
68	T	m/p-Xylenes	0.675	0.754	-11.7	89	0.00
69	T	o-Xylene	0.681	0.732	-7.5	88	0.00
70	T	Styrene	1.101	1.239	-12.5	89	0.00
71	P	Bromoform	0.266	0.303	-13.9	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73	T	Isopropylbenzene	3.903	4.277	-9.6	92	0.00
74	T	N-amyl acetate	1.831	2.040	-11.4	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.413	1.3	88	0.00
76	T	1,2,3-Trichloropropane	1.164	1.214	-4.3	94	0.00
77	T	Bromobenzene	0.921	0.946	-2.7	89	0.00
78	T	n-propylbenzene	4.409	5.042	-14.4	93	0.00
79	T	2-Chlorotoluene	2.808	2.979	-6.1	92	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.535	-12.0	92	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.393	-15.6	103	0.00
82	T	4-Chlorotoluene	3.060	3.439	-12.4	94	0.00
83	T	tert-Butylbenzene	3.242	3.510	-8.3	92	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.521	-10.9	92	0.00
85	T	sec-Butylbenzene	3.884	4.463	-14.9	94	0.00
86	T	p-Isopropyltoluene	3.139	3.651	-16.3	94	0.00
87	T	1,3-Dichlorobenzene	1.643	1.715	-4.4	91	0.00
88	T	1,4-Dichlorobenzene	1.662	1.707	-2.7	90	0.00
89	T	n-Butylbenzene	2.703	3.296	-21.9	97	0.00
90	T	Hexachloroethane	0.568	0.641	-12.9	94	0.00
91	T	1,2-Dichlorobenzene	1.648	1.684	-2.2	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.313	-12.2	96	0.00
93	T	1,2,4-Trichlorobenzene	0.938	0.998	-6.4	88	0.00
94	T	Hexachlorobutadiene	0.385	0.440	-14.3	99	0.00
95	T	Naphthalene	3.605	3.693	-2.4	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.018	-2.8	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	89	-0.01
2	T	Dichlorodifluoromethane	50.000	63.332	-26.7#	113	0.00
3	P	Chloromethane	50.000	49.814	0.4	91	0.00
4	C	Vinyl Chloride	50.000	47.609	4.8#	85	0.00
5	T	Bromomethane	50.000	56.268	-12.5	103	0.00
6	T	Chloroethane	50.000	55.960	-11.9	94	0.00
7	T	Trichlorofluoromethane	50.000	53.340	-6.7	92	0.00
8	T	Diethyl Ether	50.000	43.921	12.2	80	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	58.611	-17.2	102	0.00
10	T	Methyl Iodide	50.000	54.980	-10.0	93	0.00
11	T	Tert butyl alcohol	250.000	191.864	23.3	77	0.00
12	CM	1,1-Dichloroethene	50.000	51.849	-3.7#	91	0.00
13	T	Acrolein	250.000	277.678	-11.1	99	0.00
14	T	Allyl chloride	50.000	54.503	-9.0	96	0.00
15	T	Acrylonitrile	250.000	249.317	0.3	88	0.00
16	T	Acetone	250.000	291.541	-16.6	109	0.00
17	T	Carbon Disulfide	50.000	49.800	0.4	87	0.00
18	T	Methyl Acetate	50.000	46.794	6.4	85	0.00
19	T	Methyl tert-butyl Ether	50.000	50.544	-1.1	89	0.00
20	T	Methylene Chloride	50.000	49.206	1.6	92	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.719	-5.4	90	0.00
22	T	Diisopropyl ether	50.000	51.421	-2.8	89	0.00
23	T	Vinyl Acetate	250.000	275.687	-10.3	92	0.00
24	P	1,1-Dichloroethane	50.000	51.567	-3.1	92	0.00
25	T	2-Butanone	250.000	265.005	-6.0	91	-0.01
26	T	2,2-Dichloropropane	50.000	78.333	-56.7#	137	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.497	-1.0	88	0.00
28	T	Bromochloromethane	50.000	52.106	-4.2	91	0.00
29	T	Tetrahydrofuran	250.000	244.481	2.2	87	0.00
30	C	Chloroform	50.000	52.483	-5.0#	93	0.00
31	T	Cyclohexane	50.000	53.091	-6.2	92	0.00
32	T	1,1,1-Trichloroethane	50.000	54.822	-9.6	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	53.238	-6.5	100	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35	S	Dibromofluoromethane	50.000	53.998	-8.0	92	-0.01
36	T	1,1-Dichloropropene	50.000	55.234	-10.5	91	-0.01
37	T	Ethyl Acetate	50.000	54.053	-8.1	89	0.00
38	T	Carbon Tetrachloride	50.000	59.159	-18.3	99	0.00
39	T	Methylcyclohexane	50.000	60.514	-21.0	96	0.00
40	TM	Benzene	50.000	52.687	-5.4	86	0.00
41	T	Methacrylonitrile	50.000	54.944	-9.9	87	0.00
42	TM	1,2-Dichloroethane	50.000	58.759	-17.5	98	0.00
43	T	Isopropyl Acetate	50.000	56.230	-12.5	89	0.00
44	TM	Trichloroethene	50.000	53.389	-6.8	90	0.00
45	C	1,2-Dichloropropane	50.000	52.525	-5.0#	89	0.00
46	T	Dibromomethane	50.000	56.518	-13.0	93	0.00
47	T	Bromodichloromethane	50.000	57.794	-15.6	96	0.00
48	T	Methyl methacrylate	50.000	56.921	-13.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	963.058	3.7	80	0.00
50	S	Toluene-d8	50.000	50.238	-0.5	85	0.00
51	T	4-Methyl-2-Pentanone	250.000	276.344	-10.5	90	0.00
52	CM	Toluene	50.000	54.725	-9.5#	87	0.00
53	T	t-1,3-Dichloropropene	50.000	60.544	-21.1	94	0.00
54	T	cis-1,3-Dichloropropene	50.000	59.591	-19.2	94	0.00
55	T	1,1,2-Trichloroethane	50.000	53.083	-6.2	88	0.00
56	T	Ethyl methacrylate	50.000	56.682	-13.4	89	0.00
57	T	1,3-Dichloropropane	50.000	53.783	-7.6	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	288.833	-15.5	89	0.00
59	T	2-Hexanone	250.000	280.504	-12.2	90	0.00
60	T	Dibromochloromethane	50.000	57.231	-14.5	92	0.00
61	T	1,2-Dibromoethane	50.000	55.319	-10.6	91	0.00
62	S	4-Bromofluorobenzene	50.000	55.238	-10.5	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	85	0.00
64	T	Tetrachloroethene	50.000	55.374	-10.7	93	0.00
65	PM	Chlorobenzene	50.000	53.491	-7.0	88	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.444	-8.9	92	0.00
67	C	Ethyl Benzene	50.000	55.966	-11.9#	90	0.00
68	T	m/p-Xylenes	100.000	111.797	-11.8	89	0.00
69	T	o-Xylene	50.000	53.800	-7.6	88	0.00
70	T	Styrene	50.000	56.260	-12.5	89	0.00
71	P	Bromoform	50.000	56.960	-13.9	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73	T	Isopropylbenzene	50.000	54.796	-9.6	92	0.00
74	T	N-amyl acetate	50.000	55.694	-11.4	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.335	1.3	88	0.00
76	T	1,2,3-Trichloropropane	50.000	52.163	-4.3	94	0.00
77	T	Bromobenzene	50.000	51.354	-2.7	89	0.00
78	T	n-propylbenzene	50.000	57.179	-14.4	93	0.00
79	T	2-Chlorotoluene	50.000	53.055	-6.1	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.020	-12.0	92	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	57.854	-15.7	103	0.00
82	T	4-Chlorotoluene	50.000	56.197	-12.4	94	0.00
83	T	tert-Butylbenzene	50.000	54.134	-8.3	92	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.448	-10.9	92	0.00
85	T	sec-Butylbenzene	50.000	57.451	-14.9	94	0.00
86	T	p-Isopropyltoluene	50.000	58.167	-16.3	94	0.00
87	T	1,3-Dichlorobenzene	50.000	52.211	-4.4	91	0.00
88	T	1,4-Dichlorobenzene	50.000	51.357	-2.7	90	0.00
89	T	n-Butylbenzene	50.000	60.962	-21.9	97	0.00
90	T	Hexachloroethane	50.000	56.455	-12.9	94	0.00
91	T	1,2-Dichlorobenzene	50.000	51.100	-2.2	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	56.165	-12.3	96	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.203	-6.4	88	0.00
94	T	Hexachlorobutadiene	50.000	57.244	-14.5	99	0.00
95	T	Naphthalene	50.000	51.221	-2.4	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.414	-2.8	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/26/2025 15:35

Lab File ID: VX045470.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.629	0.846		34.5	50
Chloromethane	0.770	0.790	0.1	2.6	50
Vinyl Chloride	0.764	0.765		0.13	50
Bromomethane	0.300	0.359		19.67	50
Chloroethane	0.352	0.417		18.47	50
Trichlorofluoromethane	1.012	1.170		15.61	50
1,1,2-Trichlorotrifluoroethane	0.581	0.755		29.95	50
1,1-Dichloroethene	0.614	0.697		13.52	50
Acetone	0.369	0.438		18.7	50
Carbon Disulfide	1.636	1.741		6.42	50
Methyl tert-butyl Ether	2.061	2.308		11.98	50
Methyl Acetate	0.888	0.898		1.13	50
Methylene Chloride	0.731	0.780		6.7	50
trans-1,2-Dichloroethene	0.607	0.694		14.33	50
1,1-Dichloroethane	1.247	1.395	0.1	11.87	50
Cyclohexane	1.082	1.261		16.54	50
2-Butanone	0.555	0.621		11.89	50
Carbon Tetrachloride	0.465	0.601		29.25	50
cis-1,2-Dichloroethene	0.749	0.830		10.81	50
Bromochloromethane	0.594	0.601		1.18	50
Chloroform	1.239	1.418		14.45	50
1,1,1-Trichloroethane	1.000	1.213		21.3	50
Methylcyclohexane	0.549	0.736		34.06	50
Benzene	1.448	1.694		16.99	50
1,2-Dichloroethane	0.521	0.678		30.13	50
Trichloroethene	0.340	0.392		15.29	50
1,2-Dichloropropane	0.372	0.431		15.86	50
Bromodichloromethane	0.516	0.638		23.64	50
4-Methyl-2-Pentanone	0.587	0.694		18.23	50
Toluene	0.849	1.027		20.97	50
t-1,3-Dichloropropene	0.431	0.582		35.03	50
cis-1,3-Dichloropropene	0.503	0.665		32.21	50
1,1,2-Trichloroethane	0.350	0.399		14	50
2-Hexanone	0.425	0.510		20	50
Dibromochloromethane	0.366	0.453		23.77	50
1,2-Dibromoethane	0.349	0.413		18.34	50
Tetrachloroethene	0.320	0.397		24.06	50
Chlorobenzene	1.058	1.242	0.3	17.39	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1629 SAS No.: Q1629 SDG No.: Q1629

Instrument ID: MSVOA_X Calibration Date/Time: 03/26/2025 15:35

Lab File ID: VX045470.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.843	2.270		23.17	50
m/p-Xylenes	0.675	0.834		23.56	50
o-Xylene	0.681	0.807		18.5	50
Styrene	1.101	1.377		25.07	50
Bromoform	0.266	0.322	0.1	21.05	50
Isopropylbenzene	3.903	4.772		22.26	50
1,1,2,2-Tetrachloroethane	1.432	1.521	0.3	6.22	50
1,3-Dichlorobenzene	1.643	1.873		14	50
1,4-Dichlorobenzene	1.662	1.881		13.18	50
1,2-Dichlorobenzene	1.648	1.816		10.19	50
1,2-Dibromo-3-Chloropropane	0.279	0.329		17.92	50
1,2,4-Trichlorobenzene	0.938	1.092		16.42	50
1,2,3-Trichlorobenzene	0.990	1.095		10.61	50
1,2-Dichloroethane-d4	0.795	0.782		-1.63	50
Dibromofluoromethane	0.334	0.335		0.3	50
Toluene-d8	1.212	1.120		-7.59	50
4-Bromofluorobenzene	0.402	0.415		3.23	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	84345	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	144626	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	126386	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57791	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	65921	49.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.260%			
35) Dibromofluoromethane	5.379	113	48382	50.029	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.060%			
50) Toluene-d8	8.641	98	162016	46.211	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.420%			
62) 4-Bromofluorobenzene	11.079	95	60080	51.714	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	71350	67.203	ug/l	96
3) Chloromethane	1.307	50	66647	51.295	ug/l	96
4) Vinyl Chloride	1.374	62	64556	50.085	ug/l	99
5) Bromomethane	1.593	94	30298	59.795	ug/l	97
6) Chloroethane	1.666	64	35200	59.207	ug/l	95
7) Trichlorofluoromethane	1.874	101	98682	57.834	ug/l	99
8) Diethyl Ether	2.130	74	32384	48.523	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	63716	64.996	ug/l	98
10) Methyl Iodide	2.441	142	72226	58.957	ug/l	94
11) Tert butyl alcohol	2.971	59	51894	204.206	ug/l	97
12) 1,1-Dichloroethene	2.307	96	58768	56.703	ug/l	93
13) Acrolein	2.233	56	82546	280.996	ug/l	99
14) Allyl chloride	2.654	41	108681	58.910	ug/l	92
15) Acrylonitrile	3.062	53	180476	264.982	ug/l	98
16) Acetone	2.380	43	184795	296.871	ug/l	96
17) Carbon Disulfide	2.502	76	146850	53.198	ug/l	98
18) Methyl Acetate	2.703	43	75783	50.607	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	194684	55.989	ug/l	99
20) Methylene Chloride	2.782	84	65778	53.346	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	58514	57.147	ug/l	97
22) Diisopropyl ether	3.757	45	211696	56.422	ug/l	94
23) Vinyl Acetate	3.715	43	959622	306.481	ug/l	99
24) 1,1-Dichloroethane	3.599	63	117697	55.973	ug/l	99
25) 2-Butanone	4.550	43	261690	279.291	ug/l	96
26) 2,2-Dichloropropane	4.465	77	87389	88.603	ug/l	94
27) cis-1,2-Dichloroethene	4.477	96	69978	55.363	ug/l	91
28) Bromochloromethane	4.885	49	50712	50.597	ug/l	99
29) Tetrahydrofuran	4.995	42	162120	257.649	ug/l	100
30) Chloroform	5.080	83	119560	57.224	ug/l	97
31) Cyclohexane	5.458	56	106330	58.253	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	102345	60.650	ug/l	97
36) 1,1-Dichloropropene	5.684	75	80834	60.949	ug/l	99
37) Ethyl Acetate	4.708	43	98735	57.775	ug/l	99
38) Carbon Tetrachloride	5.666	117	86948	64.575	ug/l	96
39) Methylcyclohexane	7.373	83	106496	67.014	ug/l	98
40) Benzene	6.025	78	245023	58.506	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	55588	60.156	ug/l		98
42) 1,2-Dichloroethane	6.080	62	98034	65.005	ug/l		97
43) Isopropyl Acetate	6.330	43	154848	61.276	ug/l		98
44) Trichloroethene	7.117	130	56755	57.714	ug/l		98
45) 1,2-Dichloropropane	7.421	63	62399	57.950	ug/l		98
46) Dibromomethane	7.574	93	46224	60.735	ug/l		97
47) Bromodichloromethane	7.812	83	92342	61.857	ug/l		98
48) Methyl methacrylate	7.690	41	79394	62.623	ug/l		92
49) 1,4-Dioxane	7.659	88	24856	929.442	ug/l		93
51) 4-Methyl-2-Pentanone	8.568	43	501625	295.634	ug/l		99
52) Toluene	8.714	92	148581	60.468	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	84155	67.431	ug/l		94
54) cis-1,3-Dichloropropene	8.360	75	96166	66.080	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	57660	57.001	ug/l		97
56) Ethyl methacrylate	9.110	69	95827	62.321	ug/l		92
57) 1,3-Dichloropropane	9.305	76	102439	58.517	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	232271	309.665	ug/l		99
59) 2-Hexanone	9.427	43	368887	300.058	ug/l		98
60) Dibromochloromethane	9.519	129	65450	61.881	ug/l		98
61) 1,2-Dibromoethane	9.604	107	59785	59.203	ug/l		99
64) Tetrachloroethene	9.269	164	50166	61.975	ug/l		94
65) Chlorobenzene	10.073	112	156914	58.675	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	53138	59.666	ug/l		99
67) Ethyl Benzene	10.189	91	286839	61.556	ug/l		99
68) m/p-Xylenes	10.299	106	210779	123.563	ug/l		95
69) o-Xylene	10.640	106	101992	59.282	ug/l		95
70) Styrene	10.653	104	174051	62.523	ug/l		98
71) Bromoform	10.799	173	40682	60.576	ug/l	#	98
73) Isopropylbenzene	10.957	105	275801	61.143	ug/l		99
74) N-amyl acetate	10.842	43	129374	61.124	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	87921	53.116	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	76581m	56.934	ug/l		
77) Bromobenzene	11.195	156	59754	56.145	ug/l		94
78) n-propylbenzene	11.299	91	324320	63.648	ug/l		99
79) 2-Chlorotoluene	11.360	91	190484	58.698	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	224971	61.682	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	23459	59.684	ug/l		86
82) 4-Chlorotoluene	11.451	91	218741	61.848	ug/l		97
83) tert-Butylbenzene	11.713	119	222490	59.370	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	224111	61.068	ug/l		98
85) sec-Butylbenzene	11.890	105	281972	62.814	ug/l		99
86) p-Isopropyltoluene	12.006	119	230417	63.515	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	108247	57.014	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	108707	56.594	ug/l		98
89) n-Butylbenzene	12.329	91	208754	66.812	ug/l		99
90) Hexachloroethane	12.536	117	39837	60.711	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	104966	55.113	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19035	59.027	ug/l		92
93) 1,2,4-Trichlorobenzene	13.585	180	63082	58.168	ug/l		99
94) Hexachlorobutadiene	13.725	225	27031	60.796	ug/l		99
95) Naphthalene	13.774	128	228638	54.873	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	63287	55.317	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

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

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

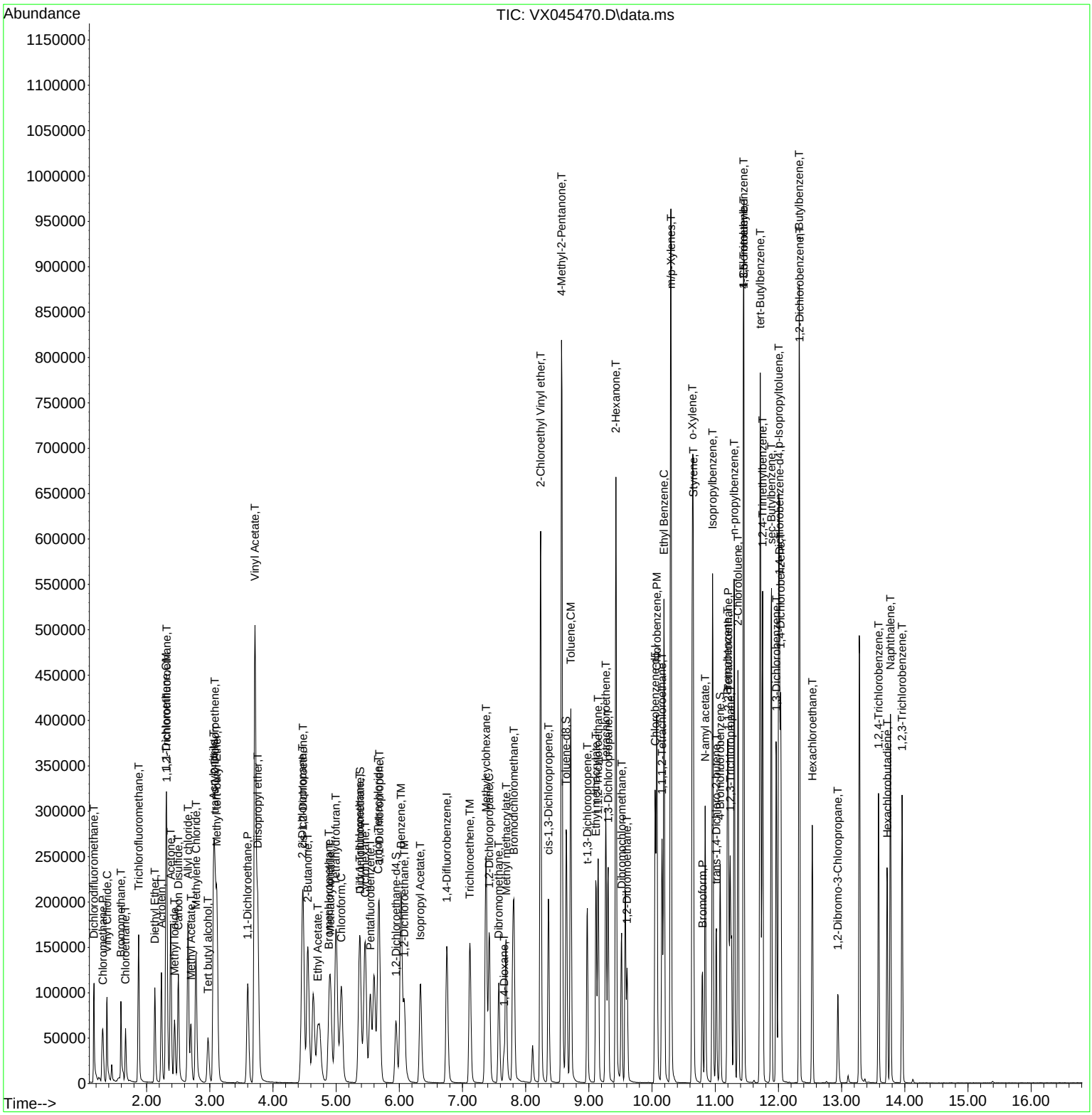
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

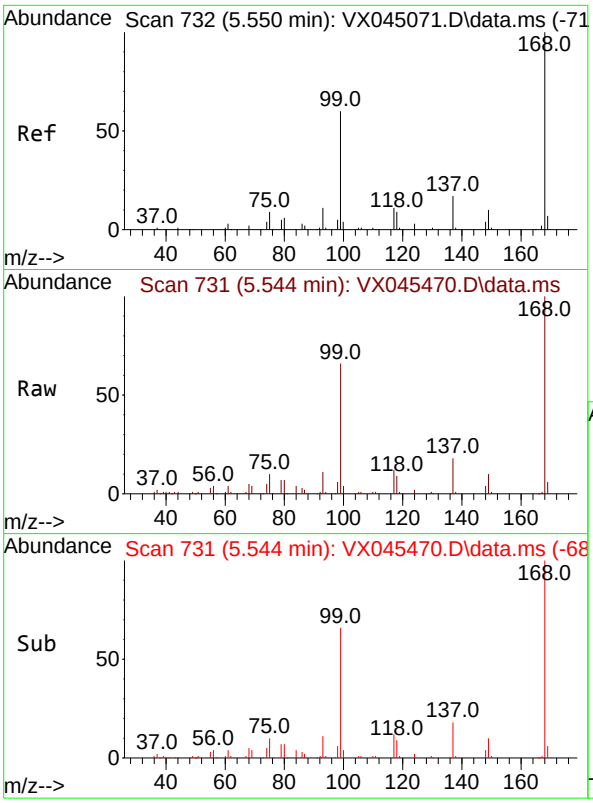
Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

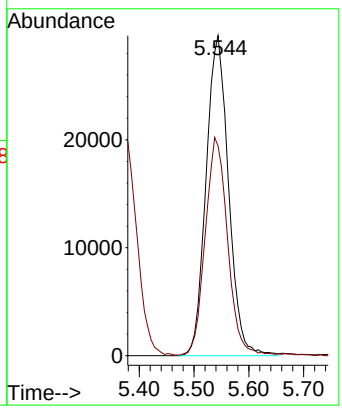




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:168 Resp: 8434

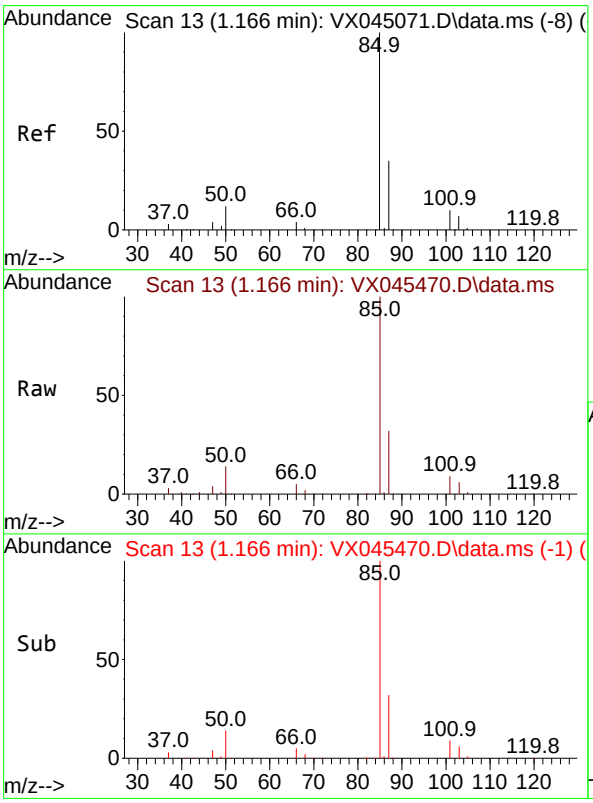
Ion	Ratio	Lower	Upper
168	100		
99	65.3	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

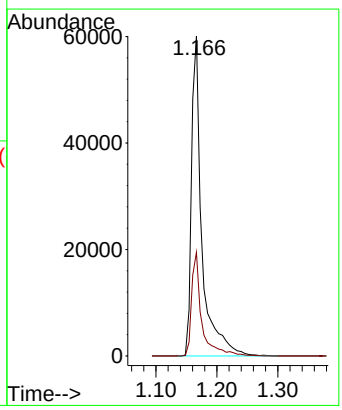
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

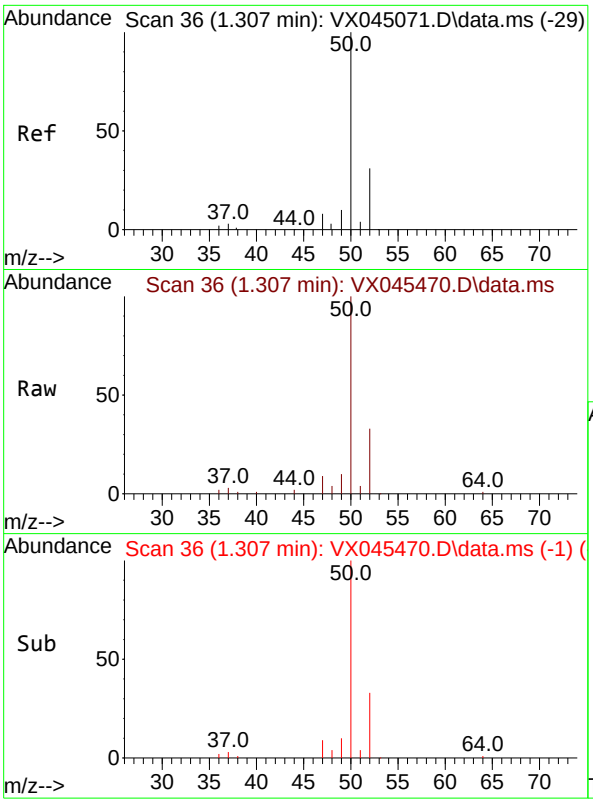


#2
Dichlorodifluoromethane
Concen: 67.203 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 85 Resp: 71350

Ion	Ratio	Lower	Upper
85	100		
87	32.4	17.4	52.3

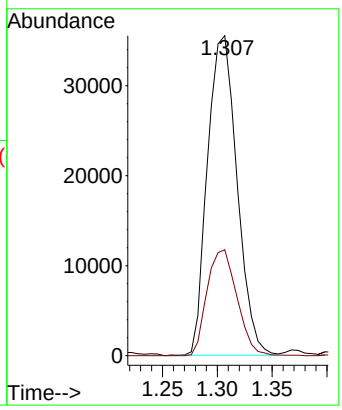




#3
Chloromethane
Concen: 51.295 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 50 Resp: 6664

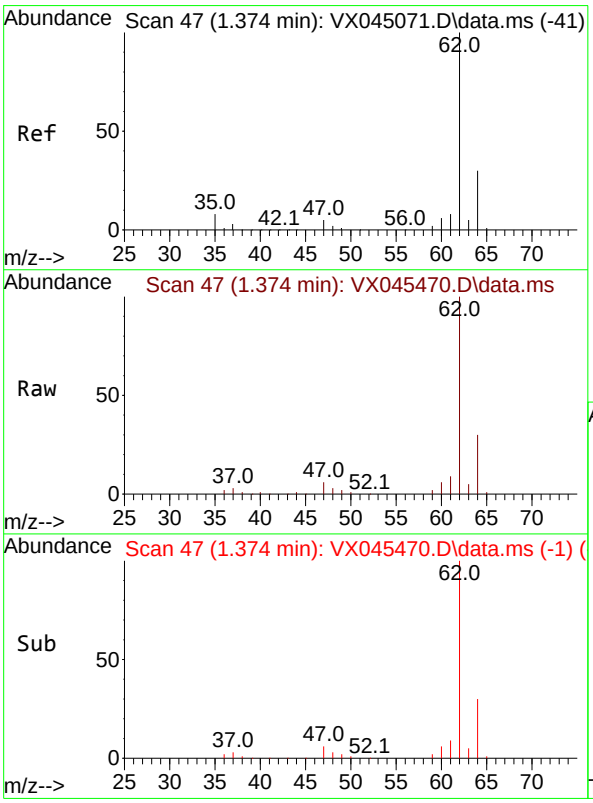
Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

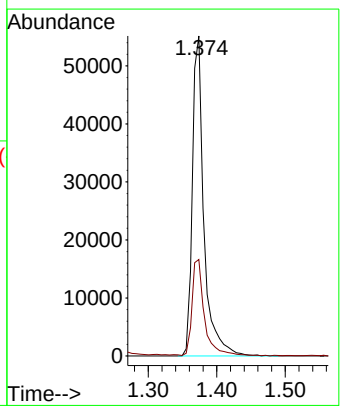
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

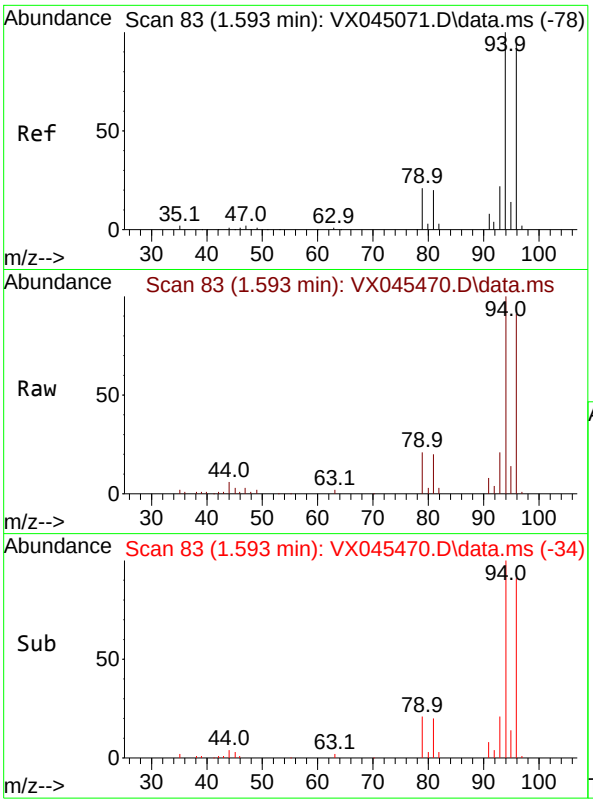


#4
Vinyl Chloride
Concen: 50.085 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 62 Resp: 64556

Ion	Ratio	Lower	Upper
62	100		
64	30.0	24.3	36.5

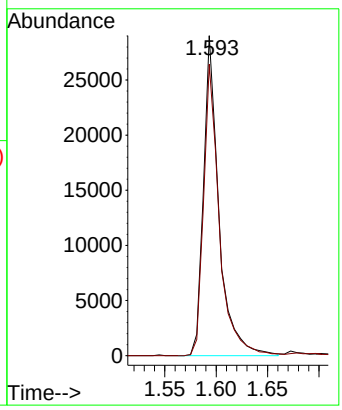




#5
Bromomethane
Concen: 59.795 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 94 Resp: 3029

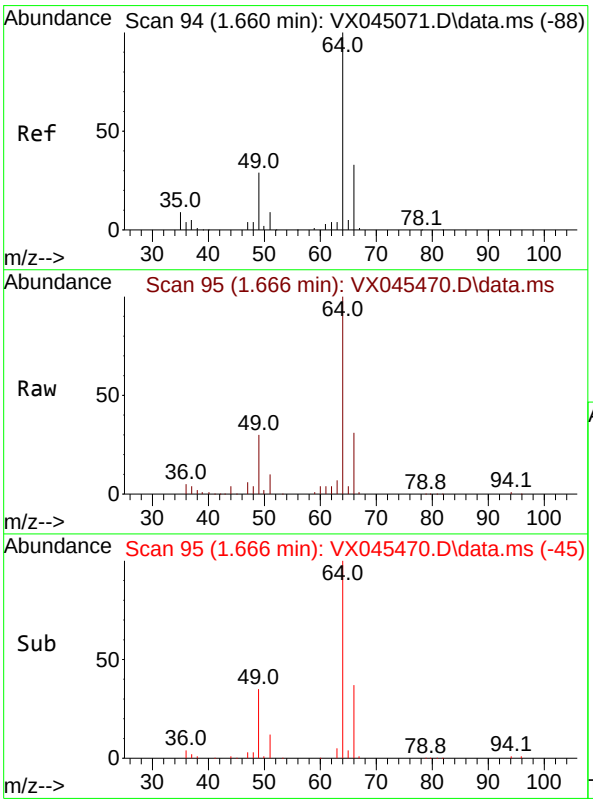
Ion	Ratio	Lower	Upper
94	100		
96	91.0	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

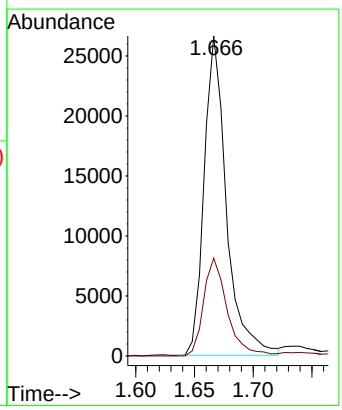
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

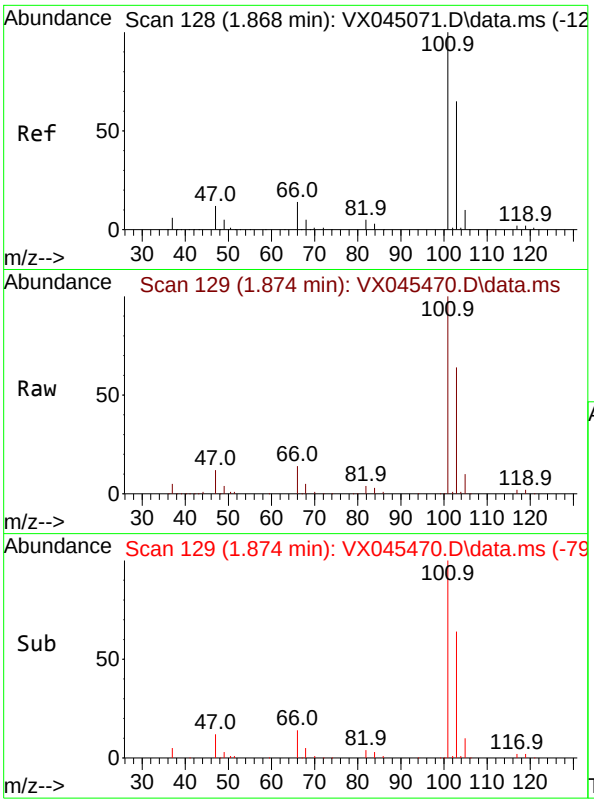


#6
Chloroethane
Concen: 59.207 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 64 Resp: 35200

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.7	40.1

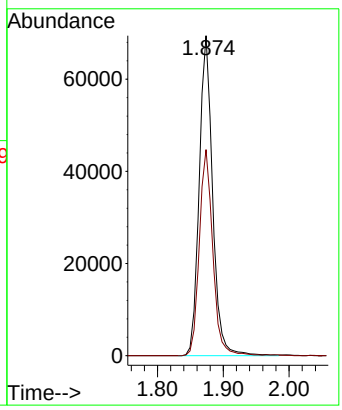




#7
Trichlorofluoromethane
Concen: 57.834 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:101 Resp: 9868

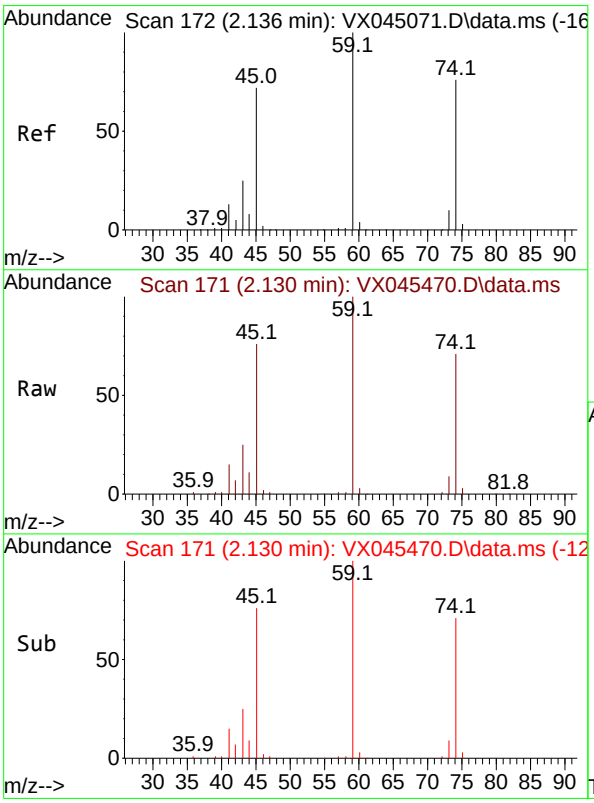
Ion	Ratio	Lower	Upper
101	100		
103	64.4	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

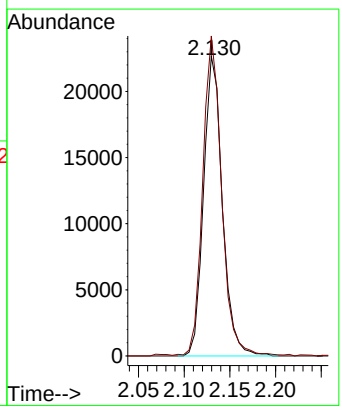
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

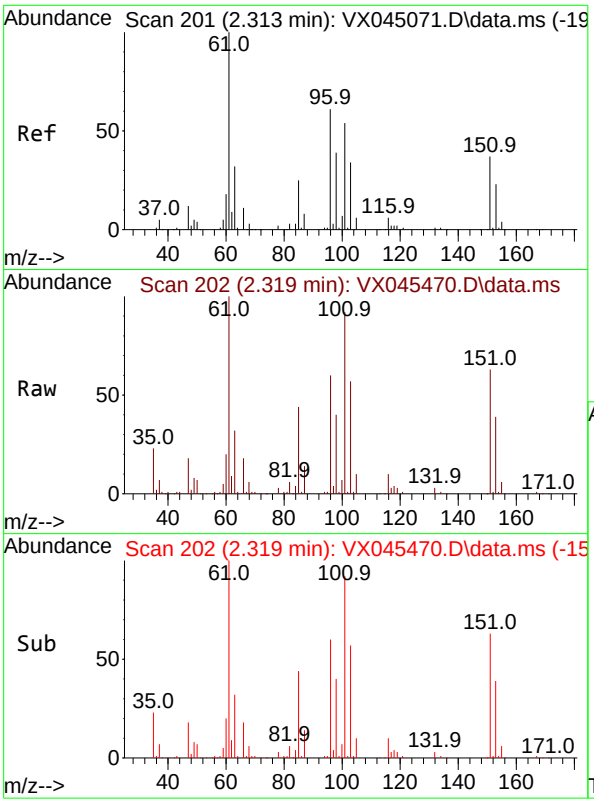


#8
Diethyl Ether
Concen: 48.523 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 74 Resp: 32384

Ion	Ratio	Lower	Upper
74	100		
45	107.3	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 64.996 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

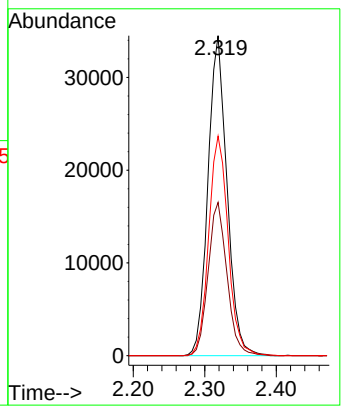
Tgt Ion:101 Resp: 6371

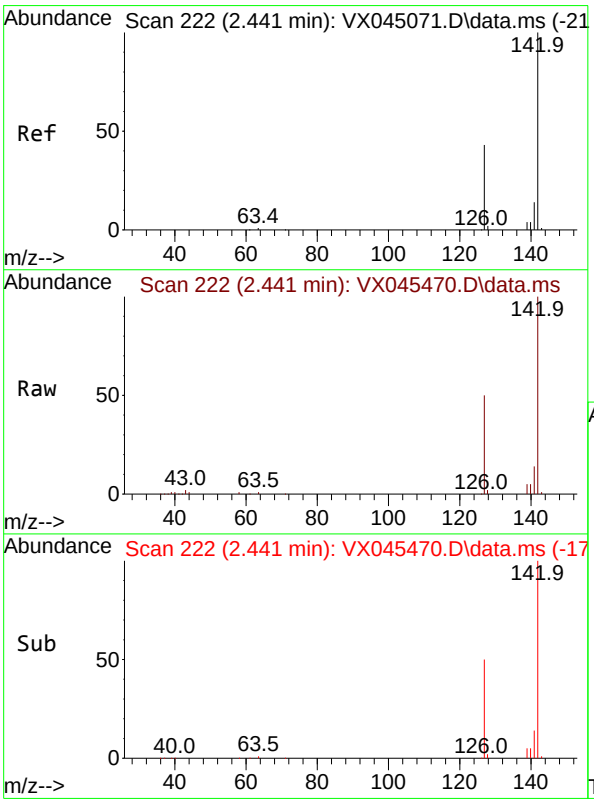
Ion	Ratio	Lower	Upper
101	100		
85	47.6	36.2	54.4
151	70.2	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

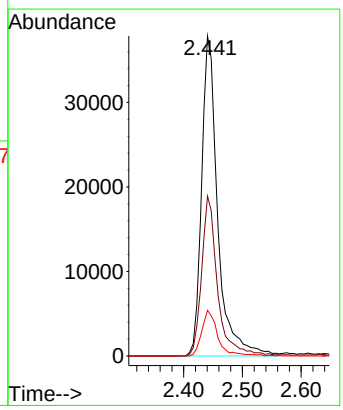


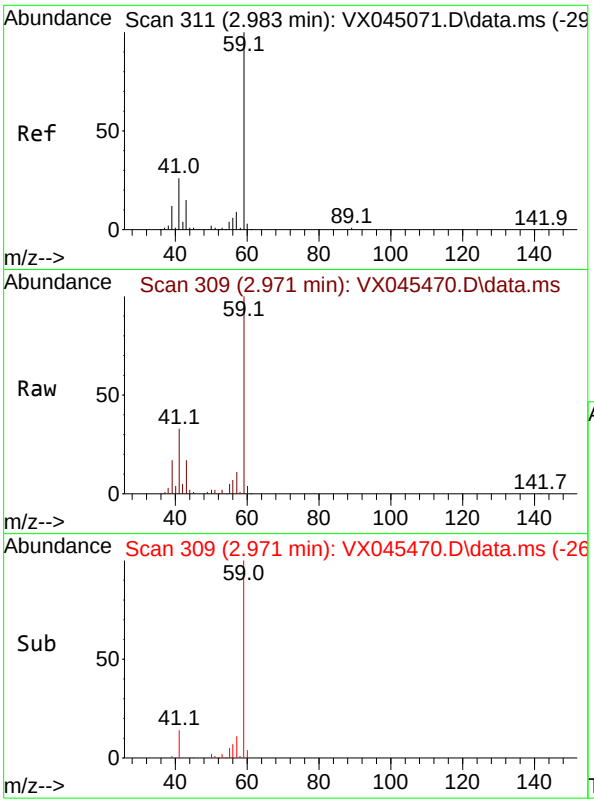


#10
Methyl Iodide
Concen: 58.957 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:142 Resp: 72226

Ion	Ratio	Lower	Upper
142	100		
127	49.6	35.4	53.2
141	14.2	11.6	17.4

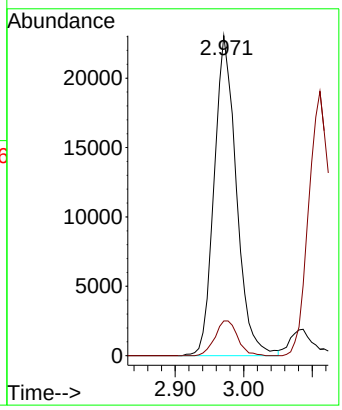




#11
Tert butyl alcohol
Concen: 204.206 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 59 Resp: 5189

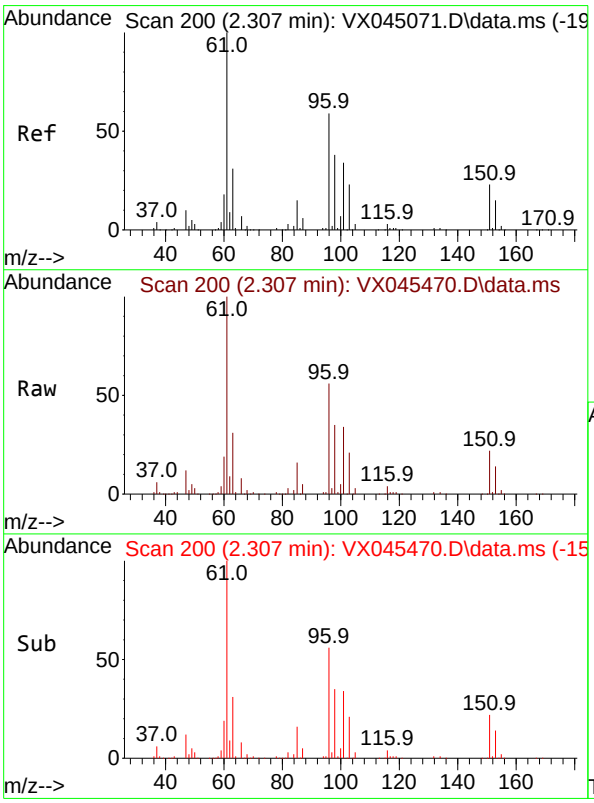
Ion	Ratio	Lower	Upper
59	100		
57	11.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

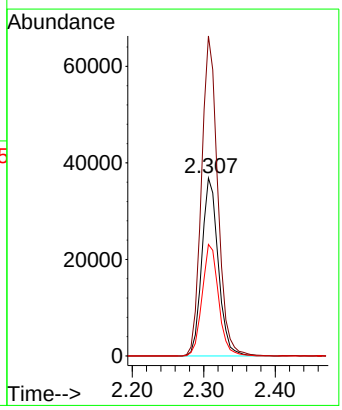
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

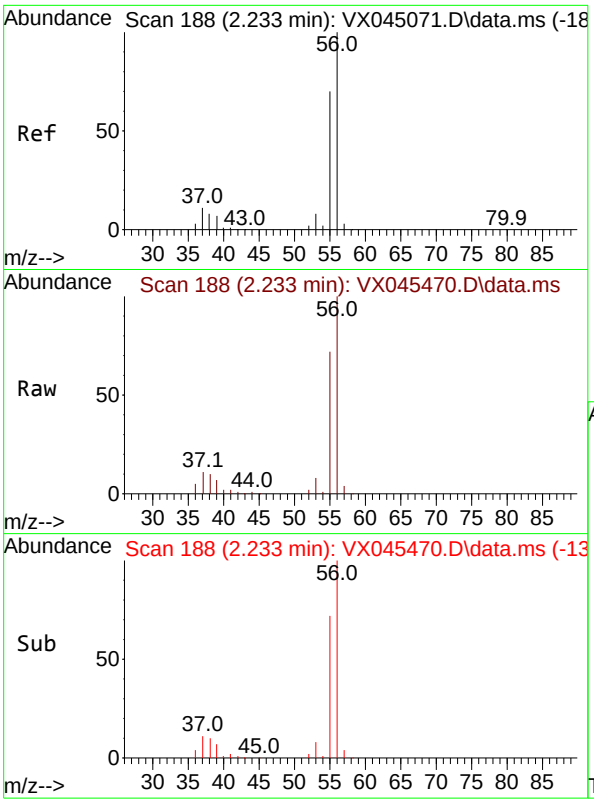


#12
1,1-Dichloroethene
Concen: 56.703 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 96 Resp: 58768

Ion	Ratio	Lower	Upper
96	100		
61	179.8	134.6	202.0
98	62.7	51.0	76.6

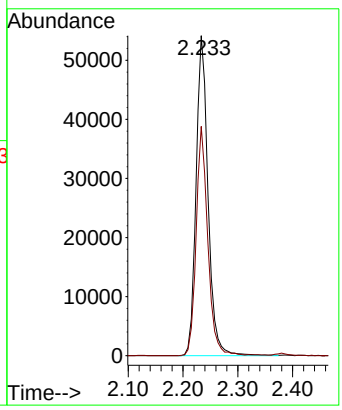




#13
Acrolein
Concen: 280.996 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 56 Resp: 8254

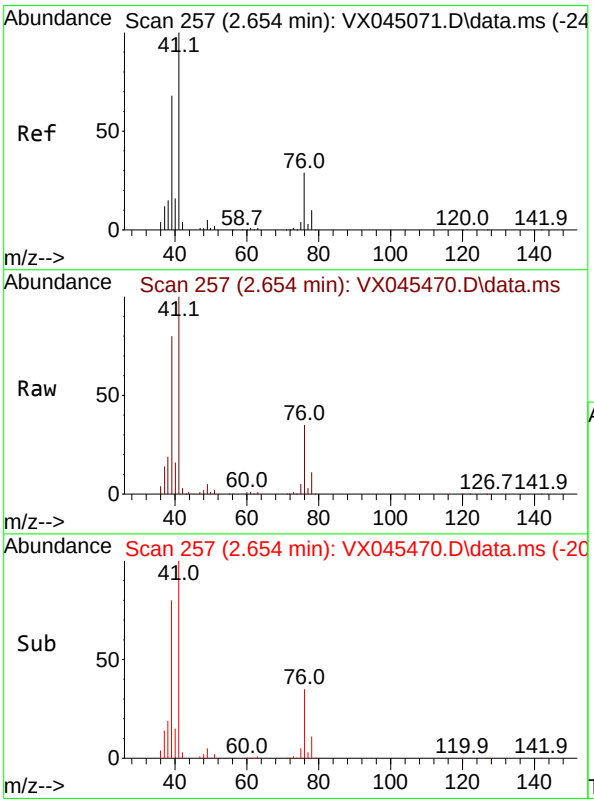
Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

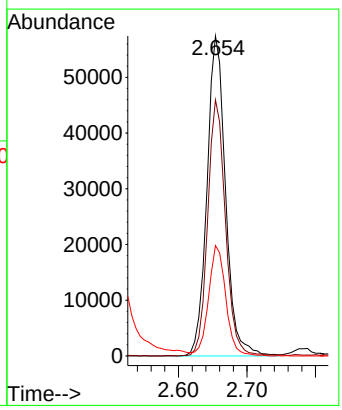
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

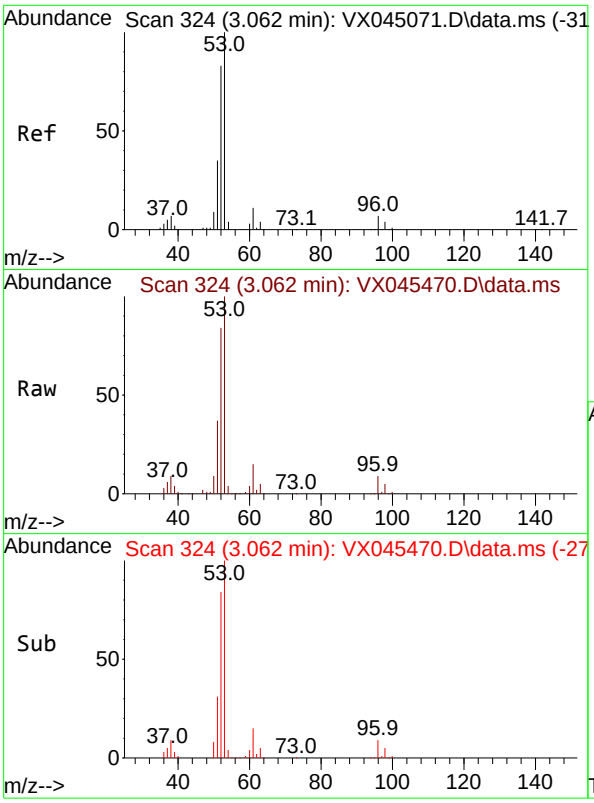


#14
Allyl chloride
Concen: 58.910 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 41 Resp: 108681

Ion	Ratio	Lower	Upper
41	100		
39	76.4	53.8	80.8
76	32.1	25.2	37.8

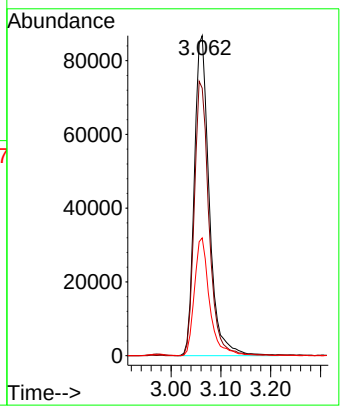




#15
Acrylonitrile
Concen: 264.982 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 53 Resp: 18047

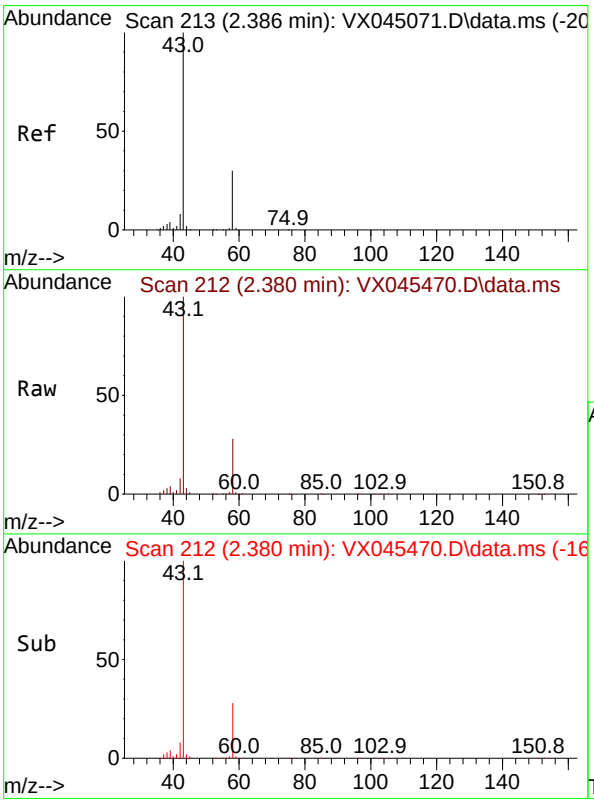
Ion	Ratio	Lower	Upper
53	100		
52	84.4	66.2	99.2
51	37.5	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

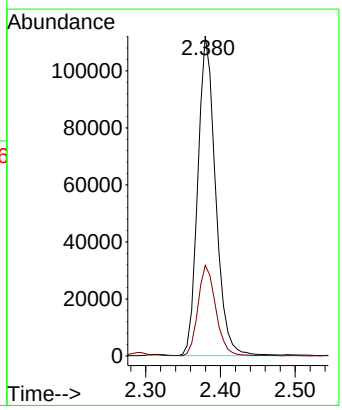
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

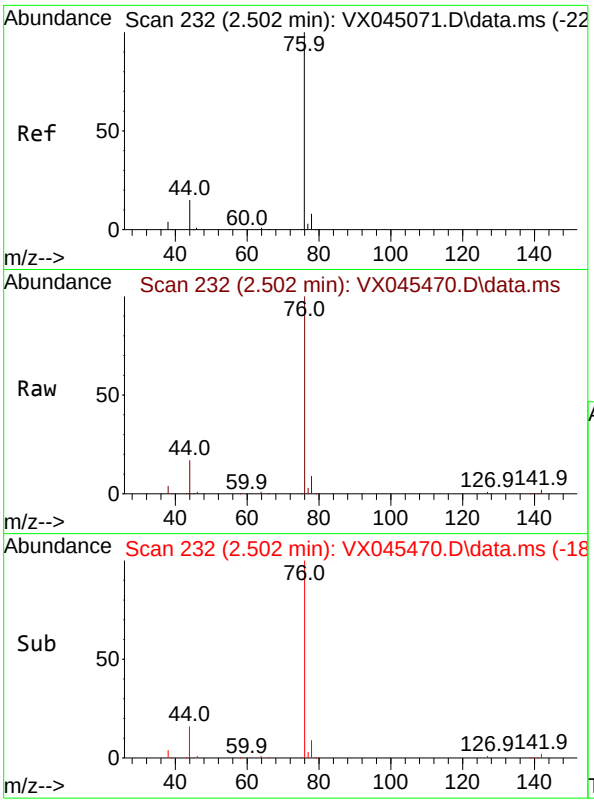


#16
Acetone
Concen: 296.871 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 184795

Ion	Ratio	Lower	Upper
43	100		
58	28.2	24.2	36.4

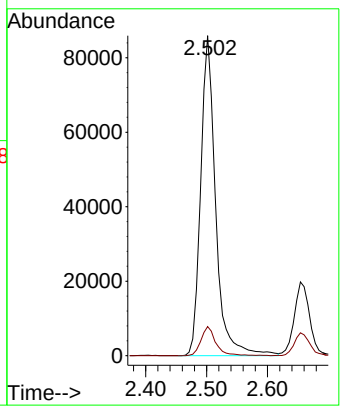




#17
Carbon Disulfide
Concen: 53.198 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 76 Resp: 14685

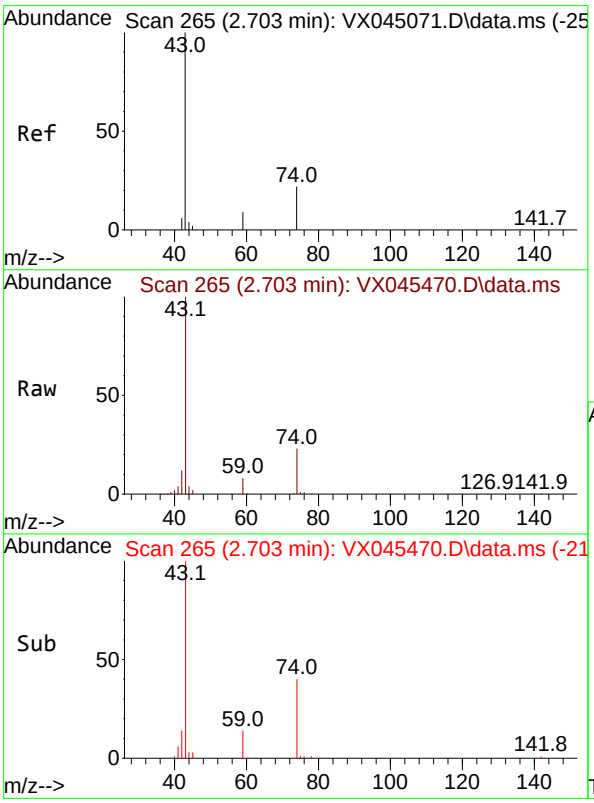
Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

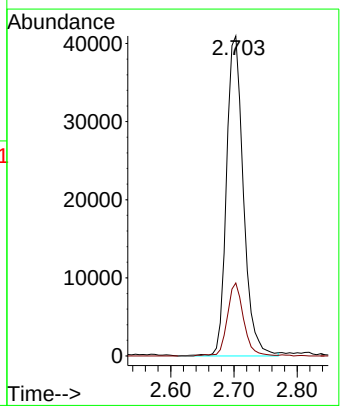
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

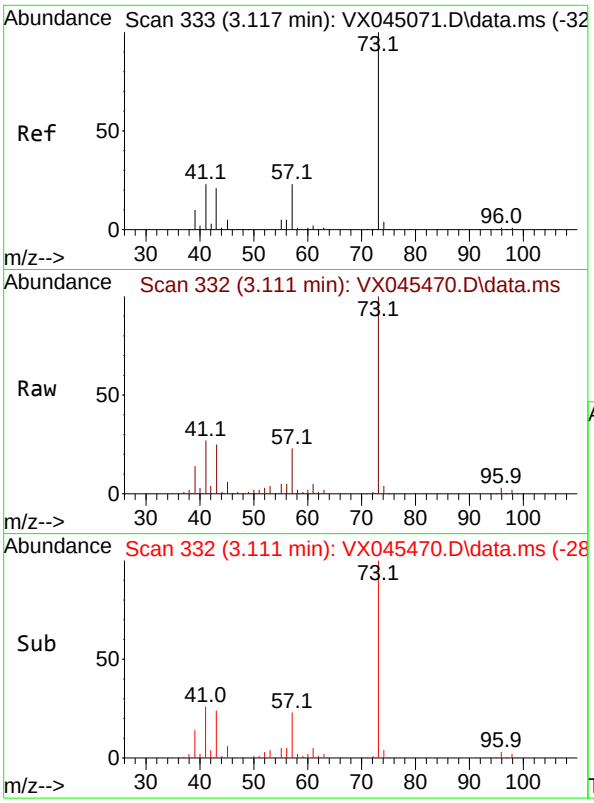


#18
Methyl Acetate
Concen: 50.607 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 75783

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

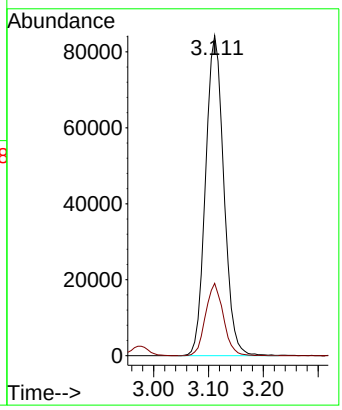




#19
Methyl tert-butyl Ether
Concen: 55.989 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 73 Resp: 19468

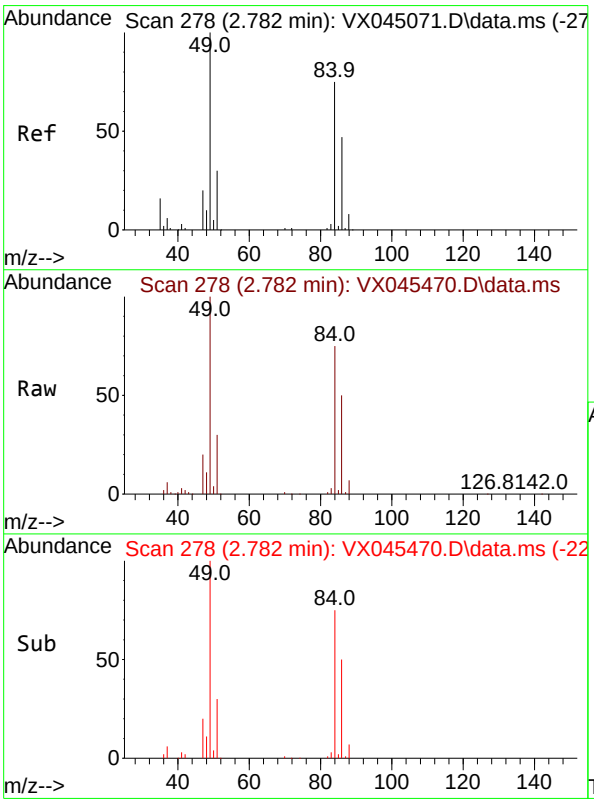
Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

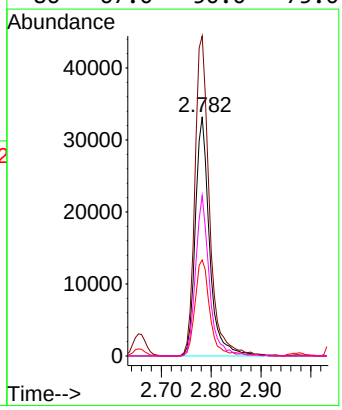
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

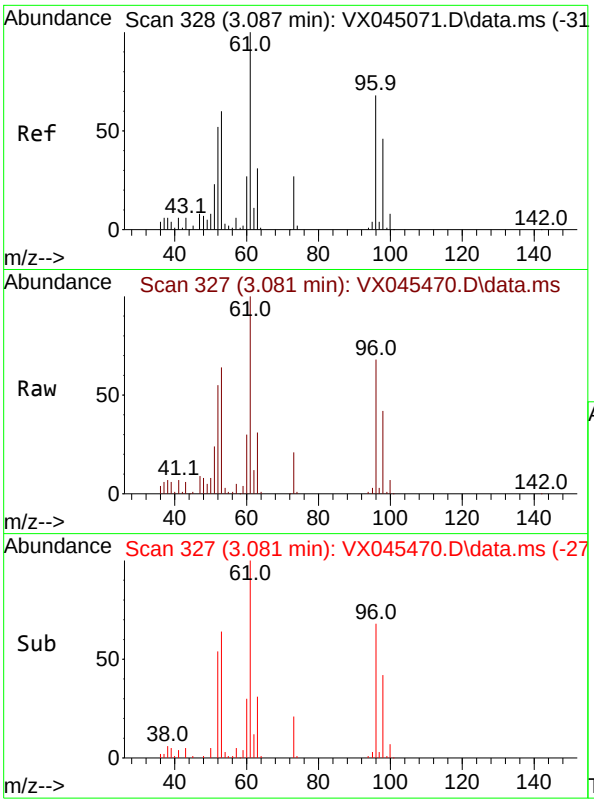


#20
Methylene Chloride
Concen: 53.346 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 84 Resp: 65778

Ion	Ratio	Lower	Upper
84	100		
49	133.8	106.5	159.7
51	40.1	32.1	48.1
86	67.0	50.0	75.0

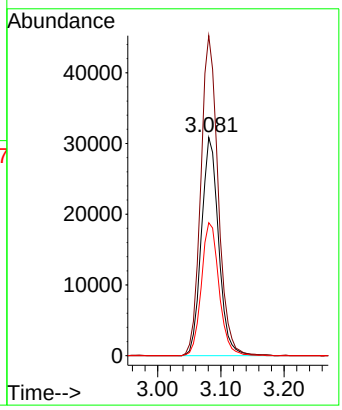




#21
trans-1,2-Dichloroethene
Concen: 57.147 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 96 Resp: 5851

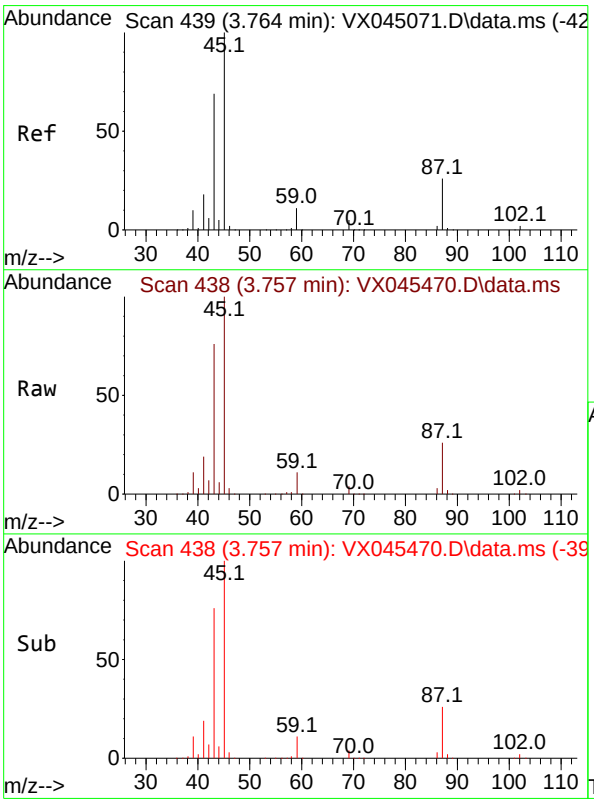
Ion	Ratio	Lower	Upper
96	100		
61	146.6	117.0	175.4
98	61.0	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

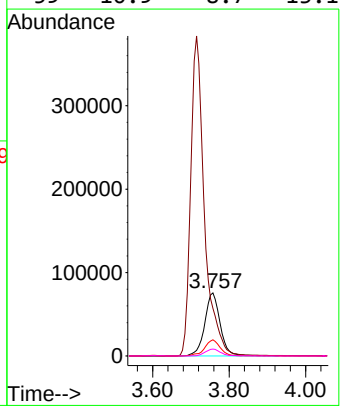
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

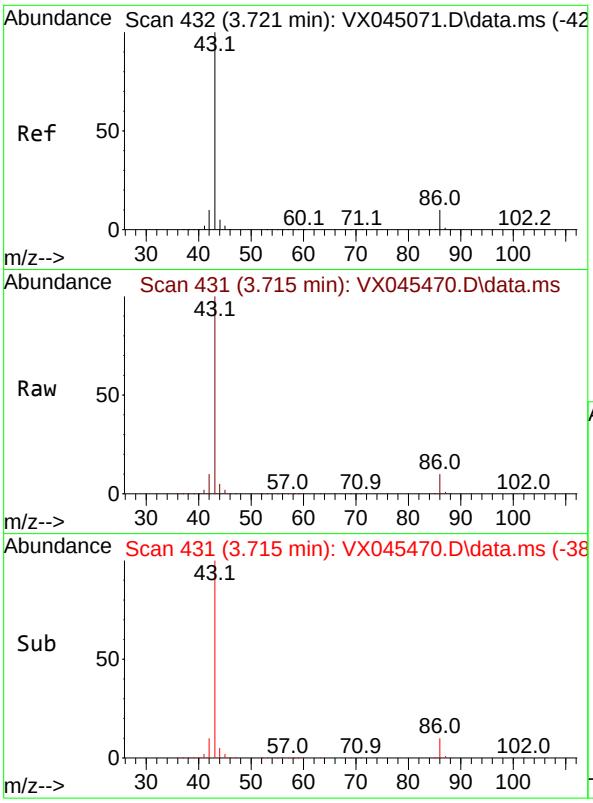


#22
Diisopropyl ether
Concen: 56.422 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 45 Resp: 211696

Ion	Ratio	Lower	Upper
45	100		
43	75.4	54.9	82.3
87	25.6	21.0	31.4
59	10.9	8.7	13.1





#23
Vinyl Acetate
Concen: 306.481 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

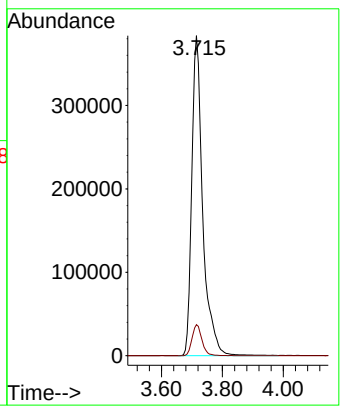
Tgt Ion: 43 Resp: 95962

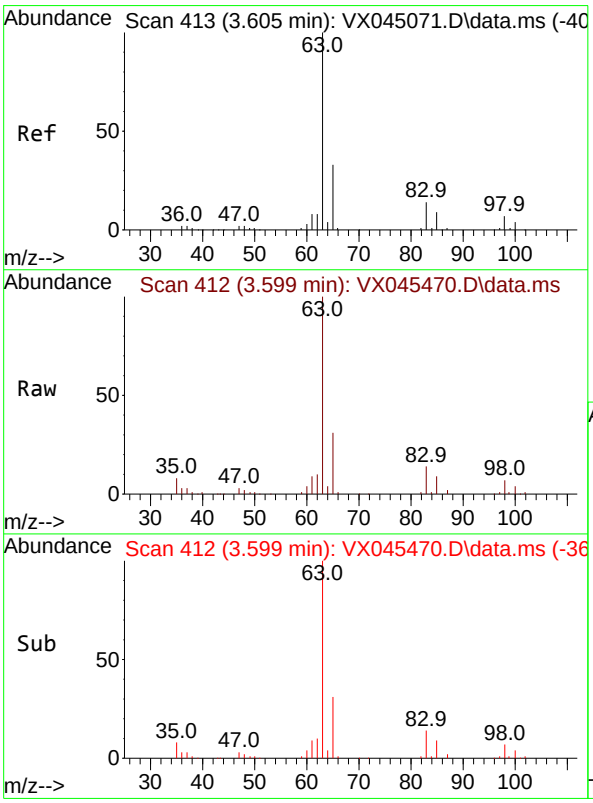
Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

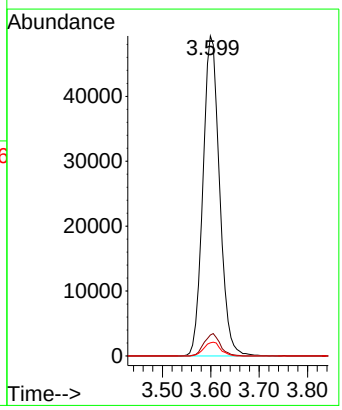


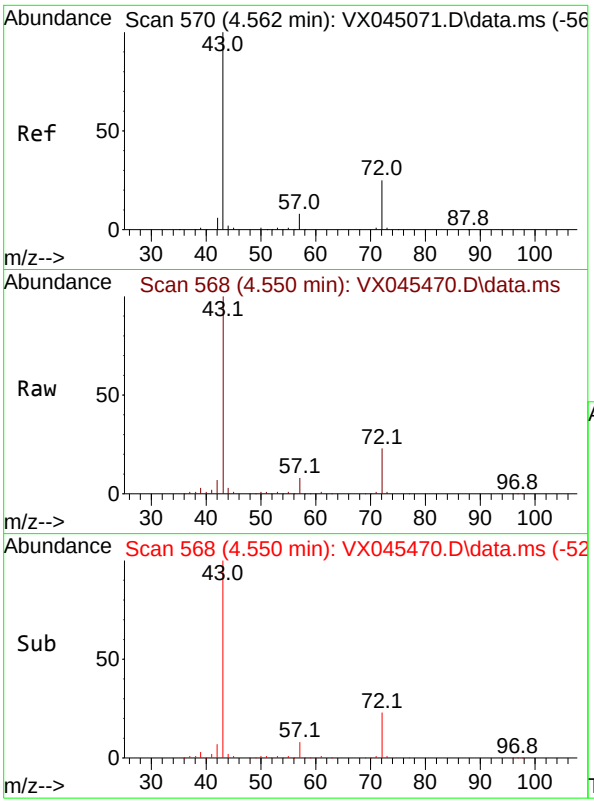


#24
1,1-Dichloroethane
Concen: 55.973 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 63 Resp: 117697

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.4	10.2
100	4.1	2.1	6.5





#25
2-Butanone
Concen: 279.291 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

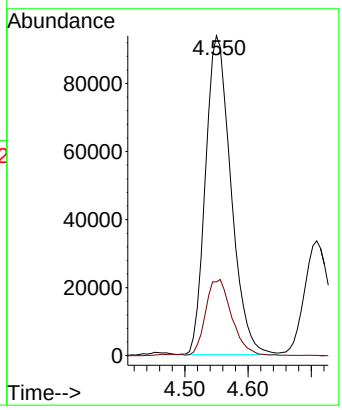
Tgt Ion: 43 Resp: 26169

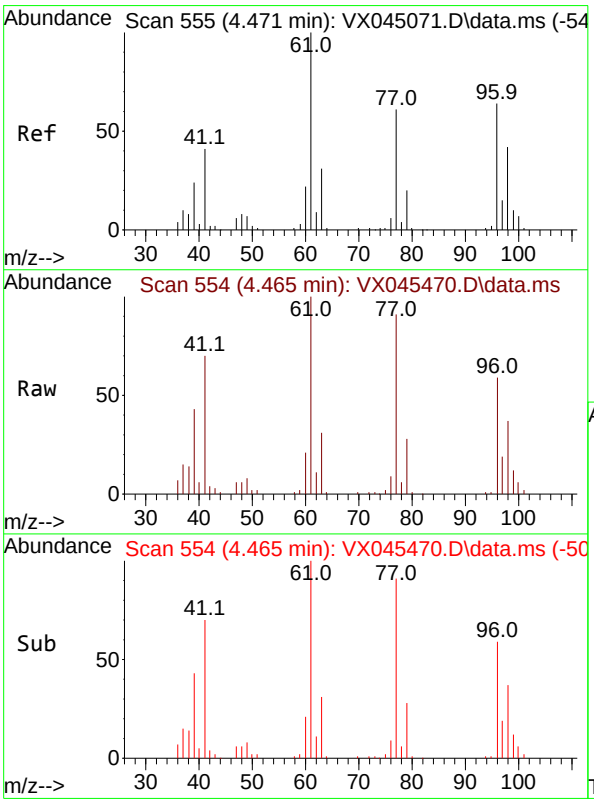
Ion	Ratio	Lower	Upper
43	100		
72	23.0	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

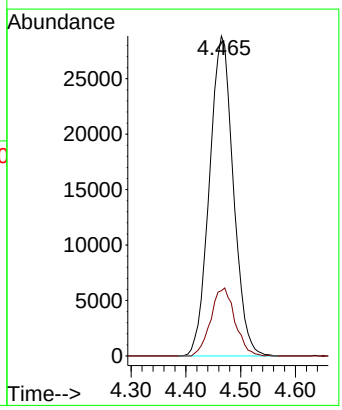


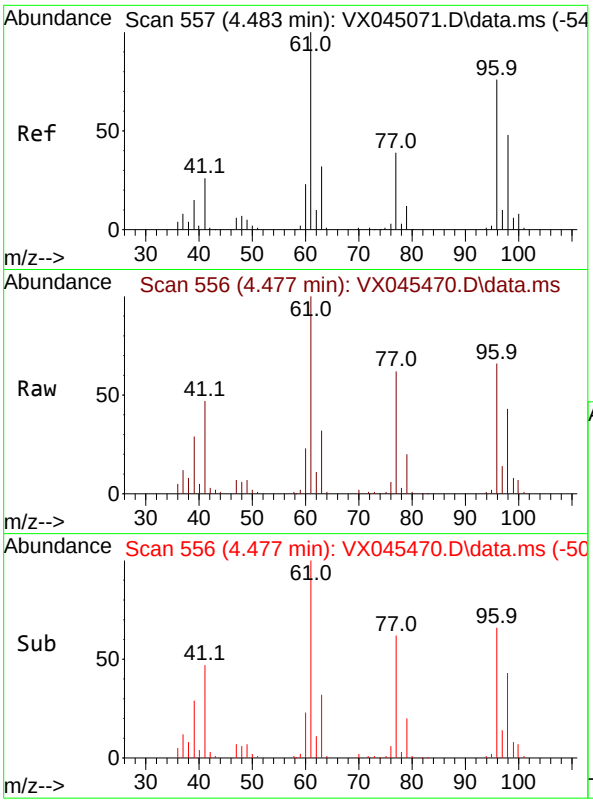


#26
2,2-Dichloropropane
Concen: 88.603 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 77 Resp: 87389

Ion	Ratio	Lower	Upper
77	100		
97	21.5	12.4	37.0

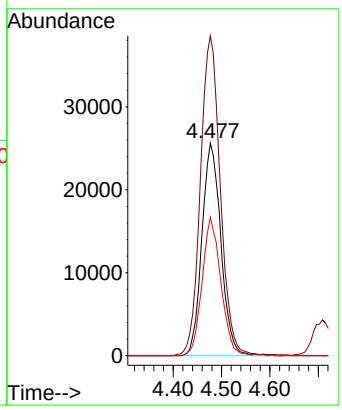




#27
cis-1,2-Dichloroethene
Concen: 55.363 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 96 Resp: 6997

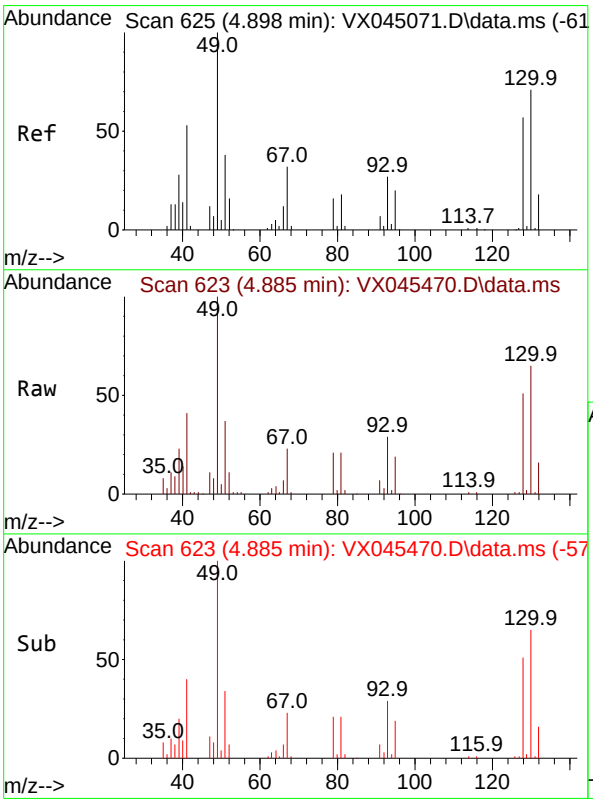
Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	283.2
98	63.8	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

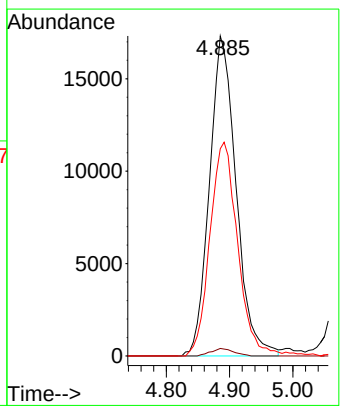
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

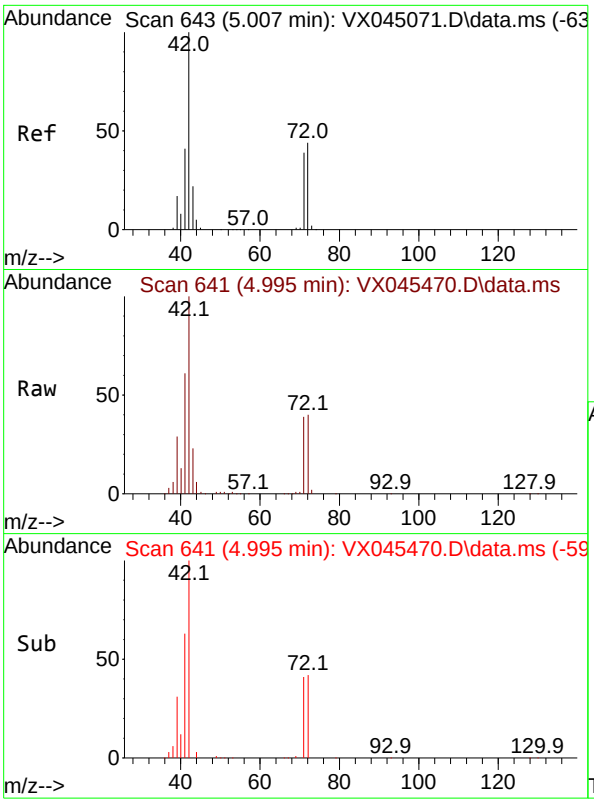


#28
Bromochloromethane
Concen: 50.597 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 49 Resp: 50712

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	69.2	56.1	84.1

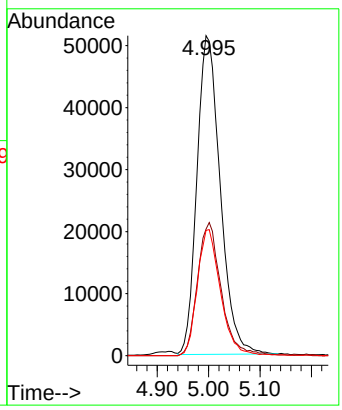




#29
Tetrahydrofuran
Concen: 257.649 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 42 Resp: 16212

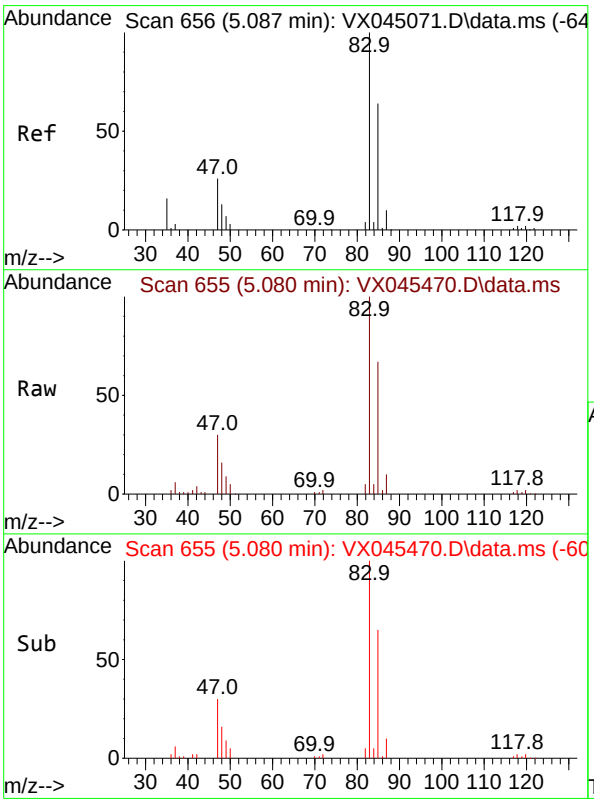
Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.1	51.1
71	39.4	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

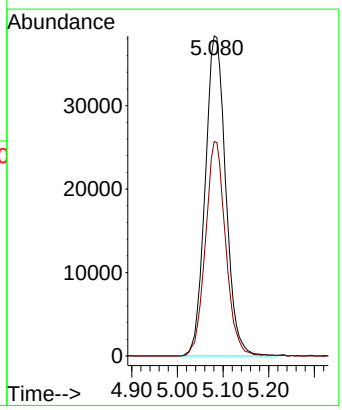
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

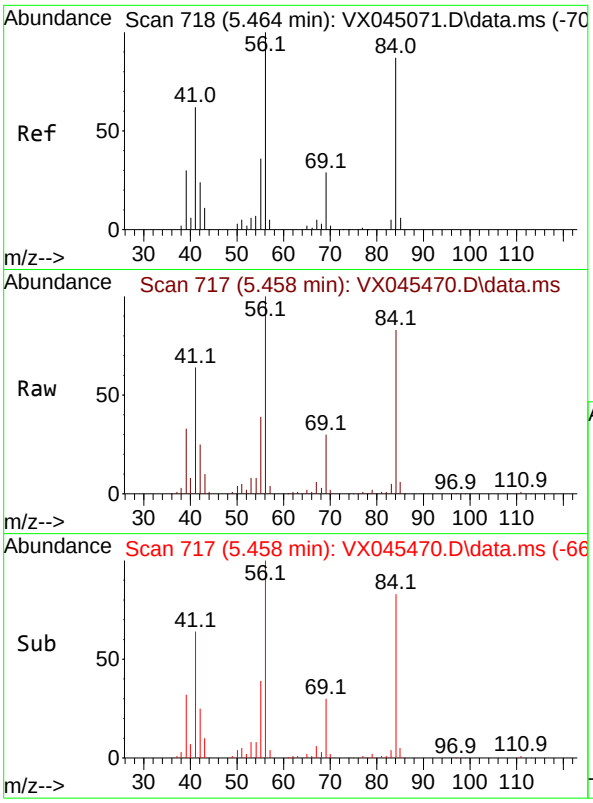


#30
Chloroform
Concen: 57.224 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 83 Resp: 119560

Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.4	77.2

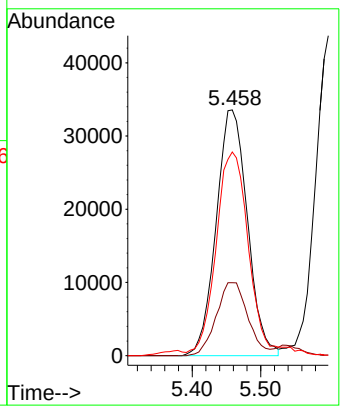




#31
Cyclohexane
Concen: 58.253 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 56 Resp: 10633

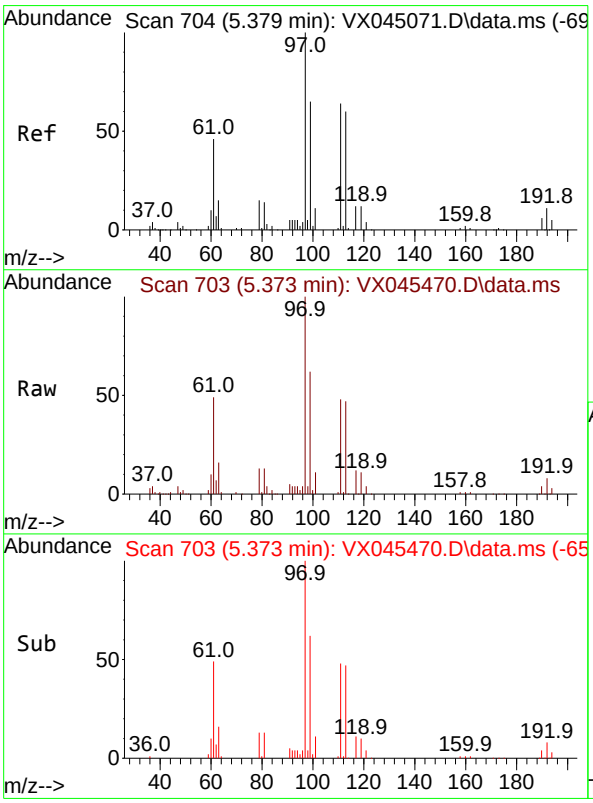
Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.4	35.2
84	80.7	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

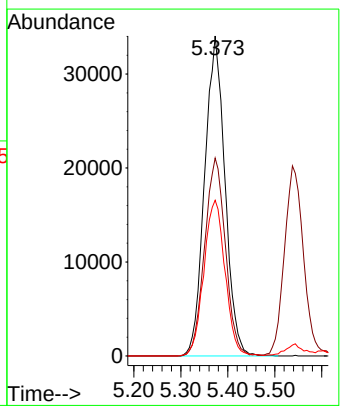
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

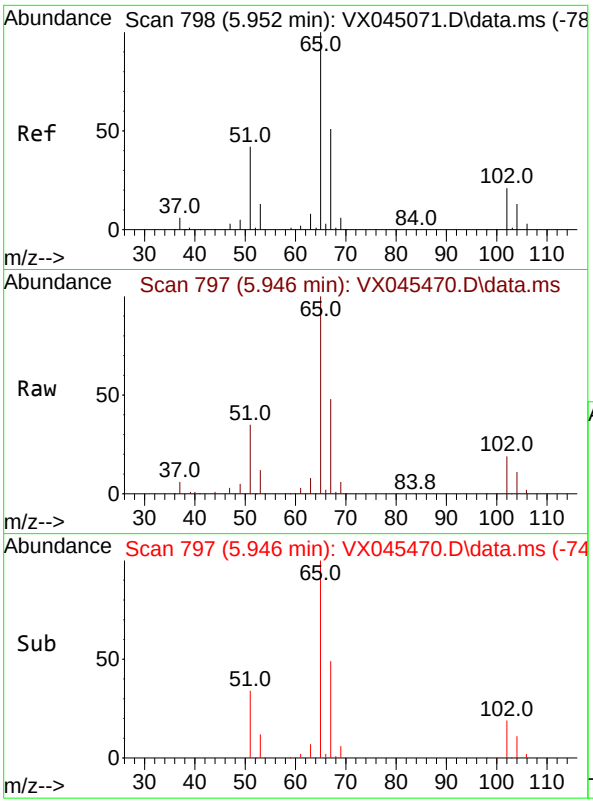


#32
1,1,1-Trichloroethane
Concen: 60.650 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 97 Resp: 102345

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.6	77.4
61	50.7	38.4	57.6

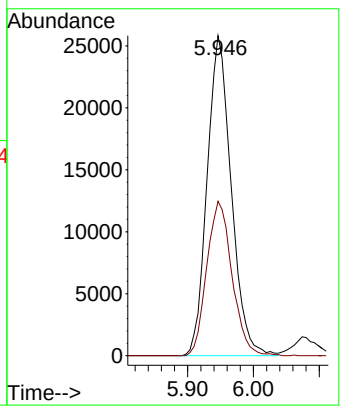




#33
1,2-Dichloroethane-d4
Concen: 49.135 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 65 Resp: 6592

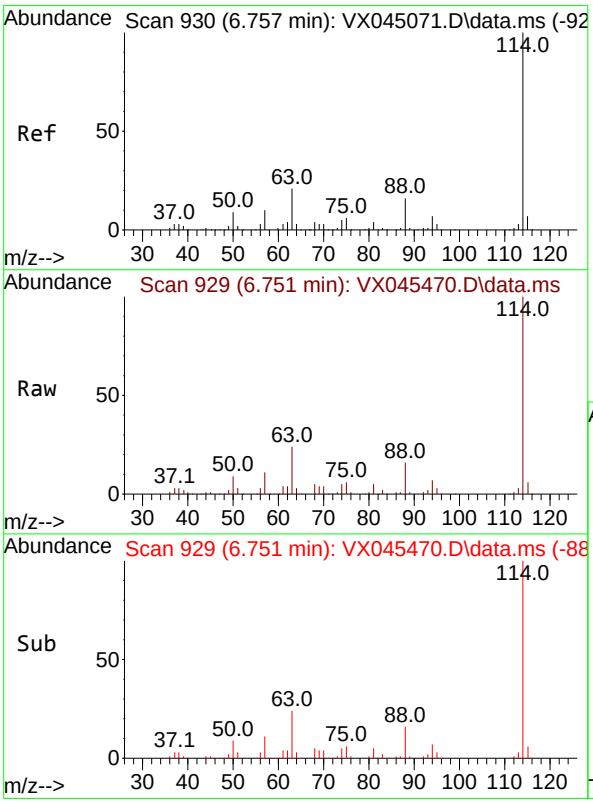
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

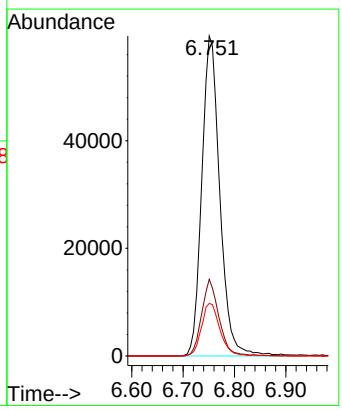
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

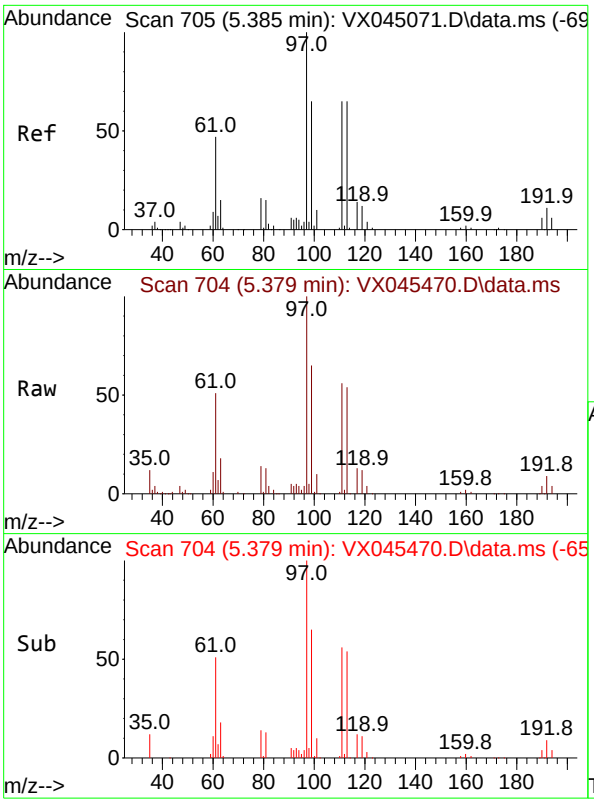


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:114 Resp: 144626

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	41.8
88	16.4	0.0	32.8

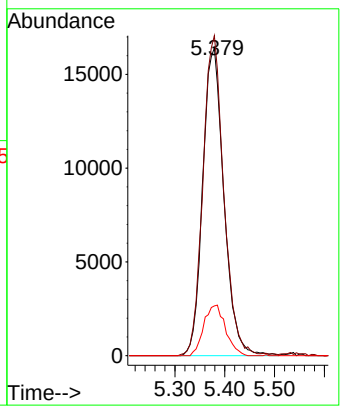




#35
Dibromofluoromethane
Concen: 50.029 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:113 Resp: 4838

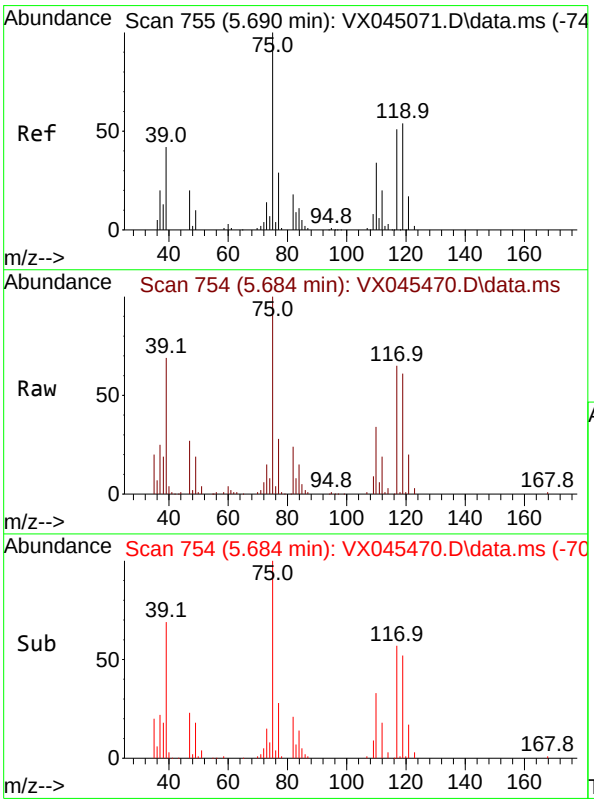
Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	16.9	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

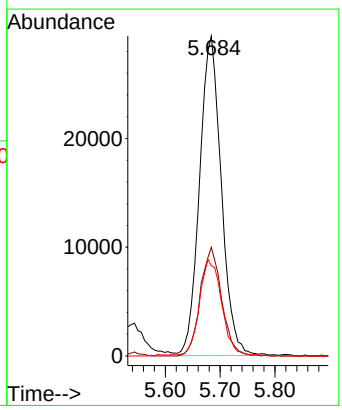
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

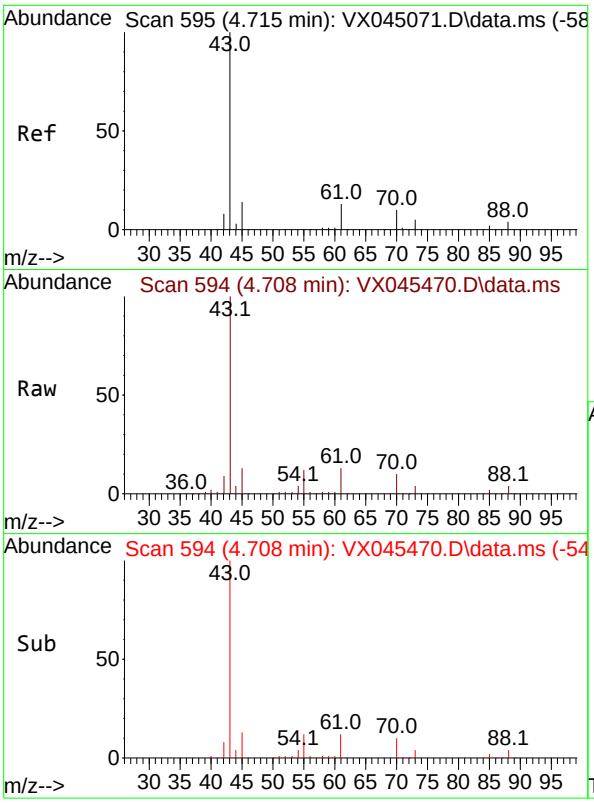


#36
1,1-Dichloropropene
Concen: 60.949 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 80834

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.9	50.6
77	30.2	24.5	36.7

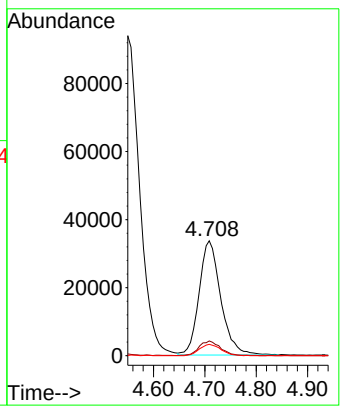




#37
Ethyl Acetate
Concen: 57.775 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 9873

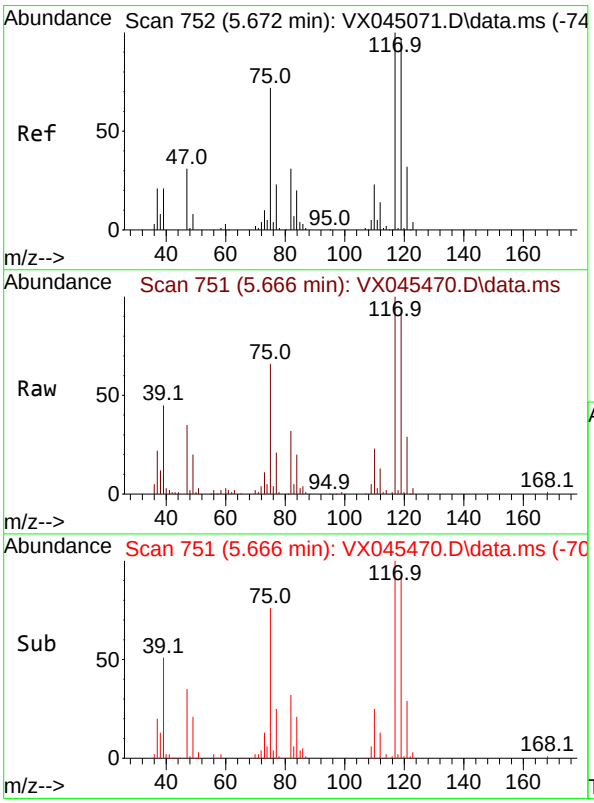
Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.8	16.2
70	9.7	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

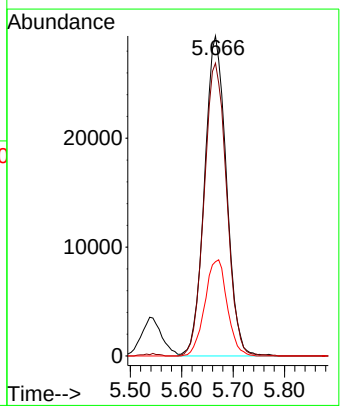
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

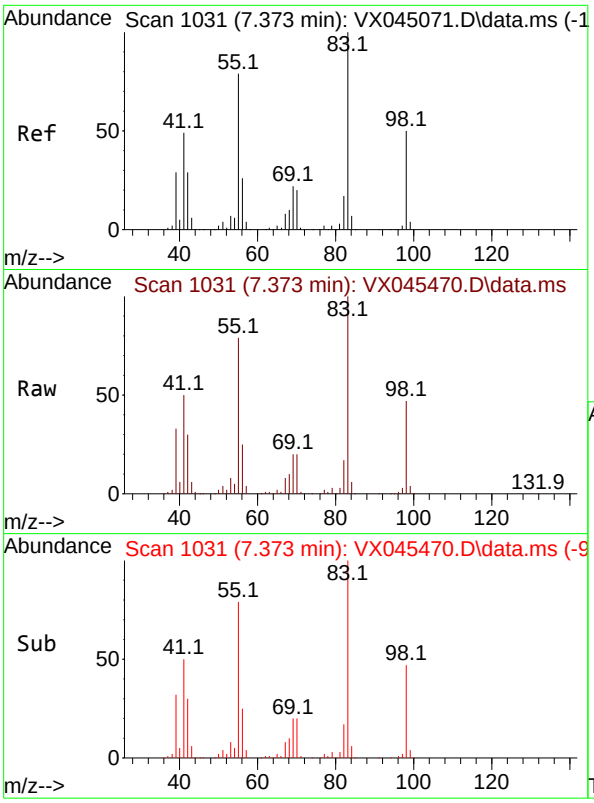


#38
Carbon Tetrachloride
Concen: 64.575 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:117 Resp: 86948

Ion	Ratio	Lower	Upper
117	100		
119	91.5	76.7	115.1
121	29.5	25.5	38.3

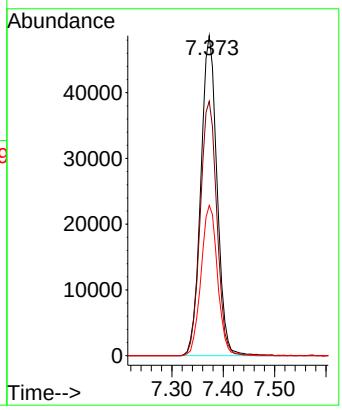




#39
Methylcyclohexane
Concen: 67.014 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 83 Resp: 10649

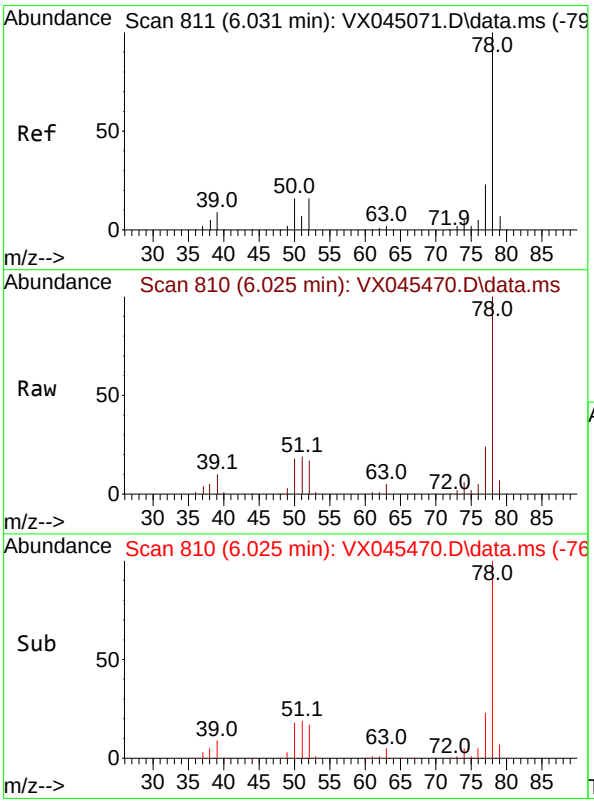
Ion	Ratio	Lower	Upper
83	100		
55	79.5	63.0	94.4
98	46.9	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

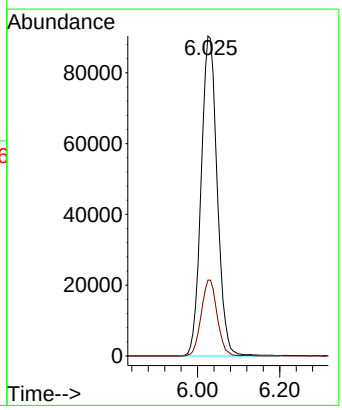
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

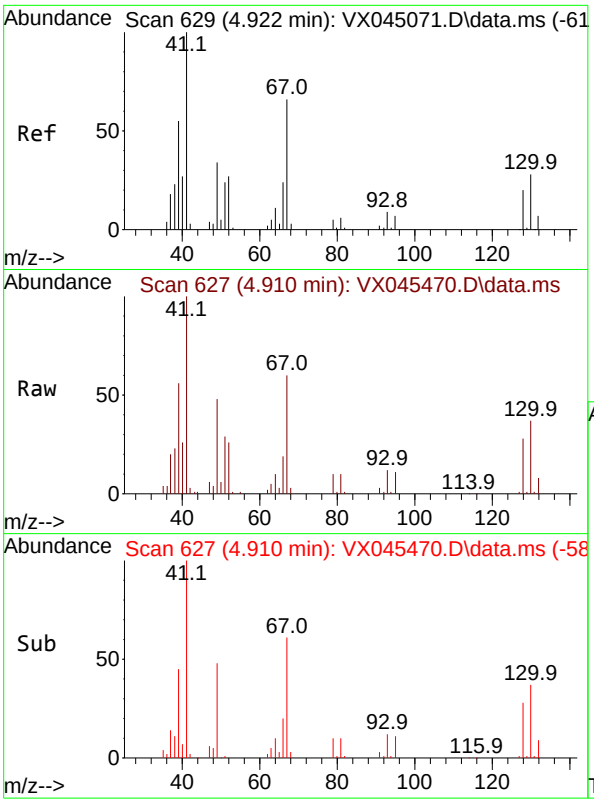


#40
Benzene
Concen: 58.506 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 78 Resp: 245023

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2

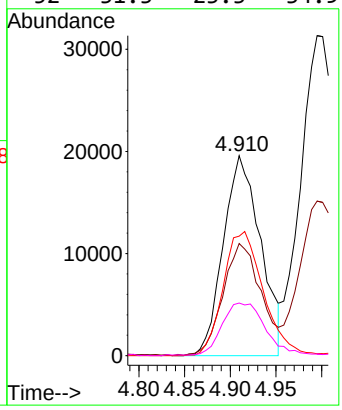




#41
Methacrylonitrile
Concen: 60.156 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 41 Resp: 5558

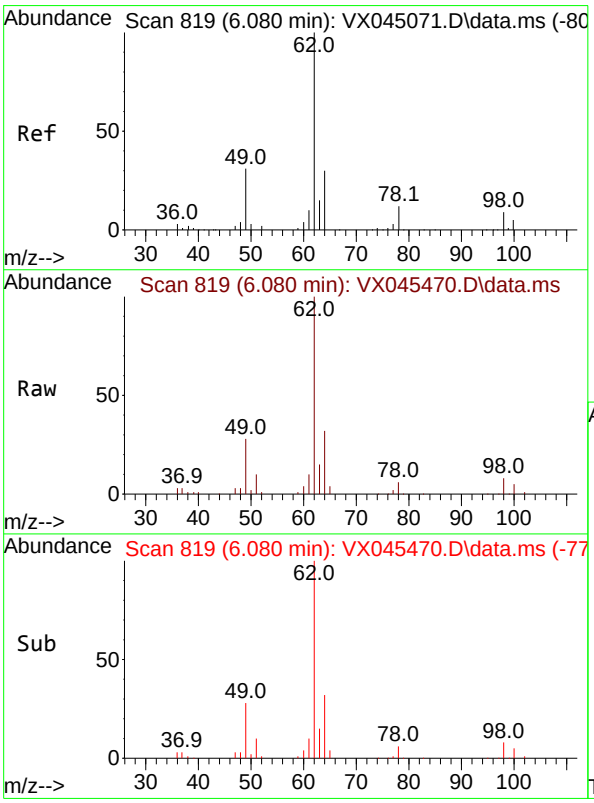
Ion	Ratio	Lower	Upper
41	100		
39	57.3	44.6	67.0
67	67.6	53.9	80.9
52	31.3	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

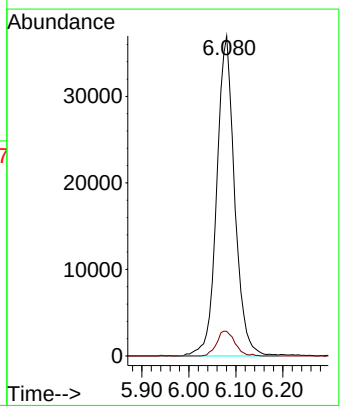
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

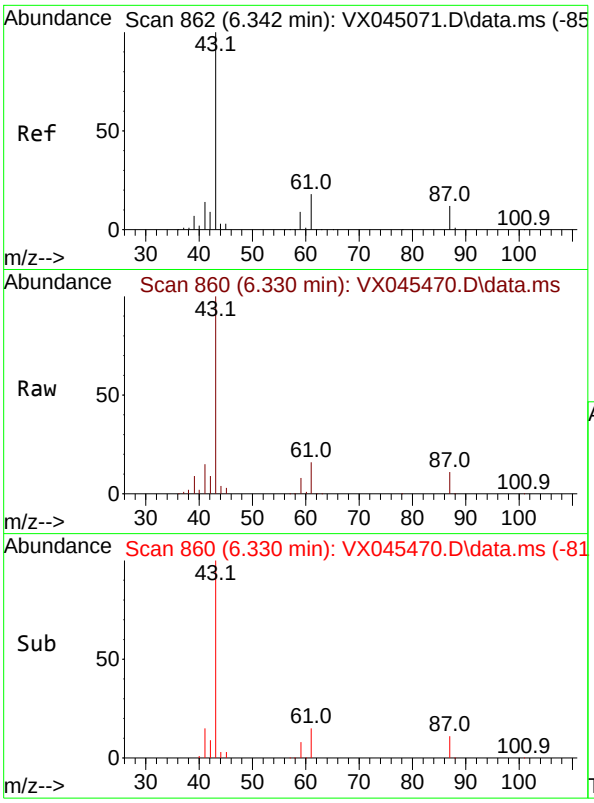


#42
1,2-Dichloroethane
Concen: 65.005 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 62 Resp: 98034

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	18.2

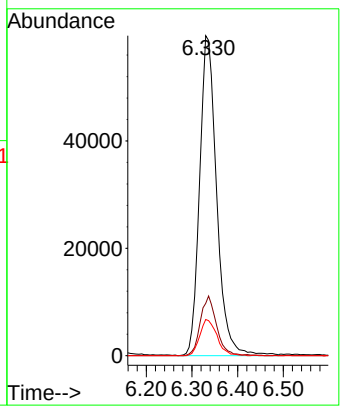




#43
Isopropyl Acetate
Concen: 61.276 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 15484

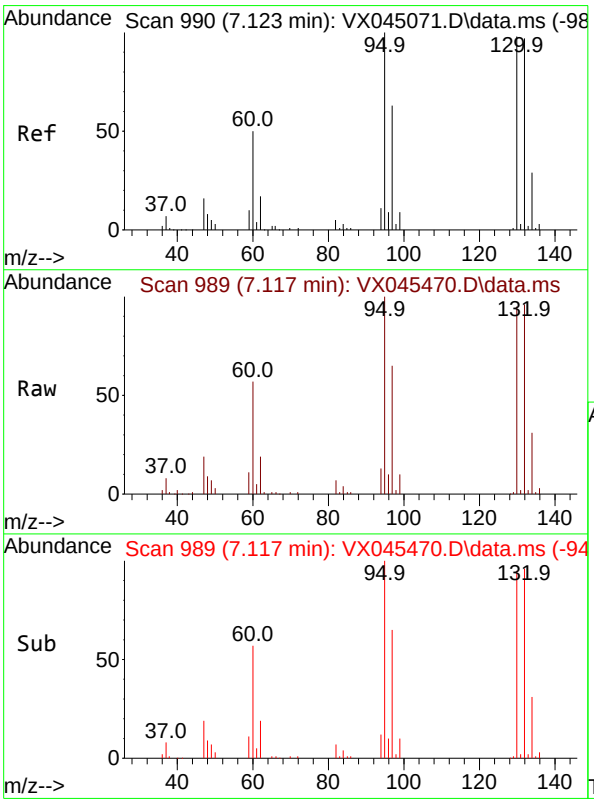
Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.9	22.3
87	11.4	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

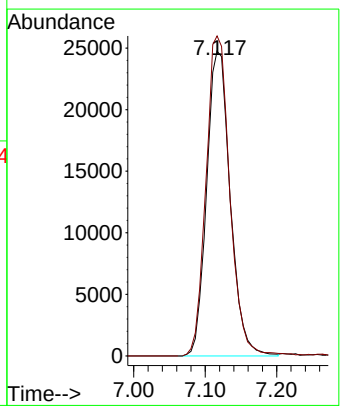
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

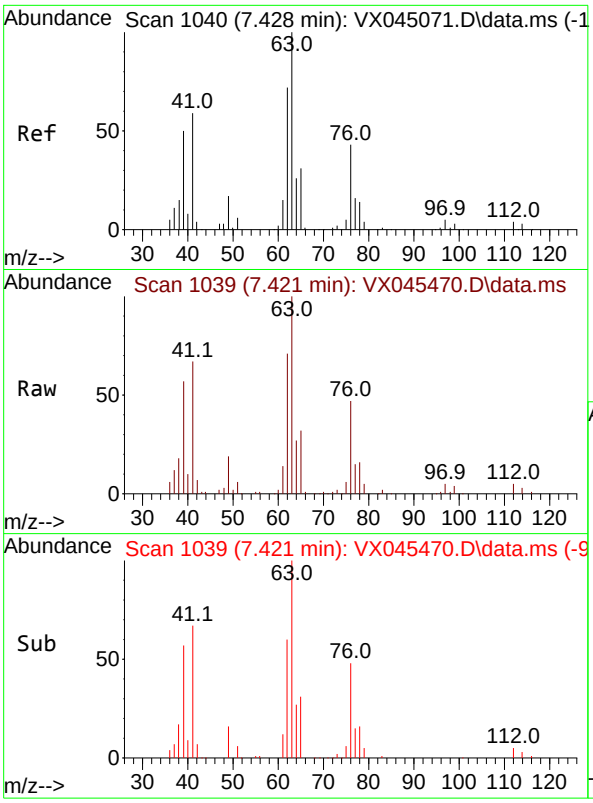


#44
Trichloroethene
Concen: 57.714 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:130 Resp: 56755

Ion	Ratio	Lower	Upper
130	100		
95	105.0	0.0	205.0

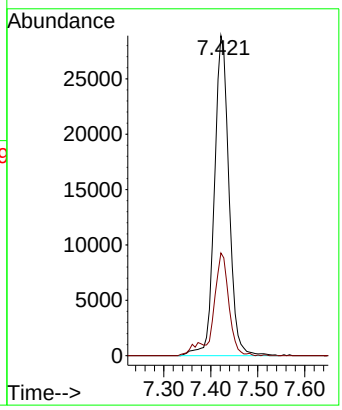




#45
1,2-Dichloropropane
Concen: 57.950 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 63 Resp: 6239

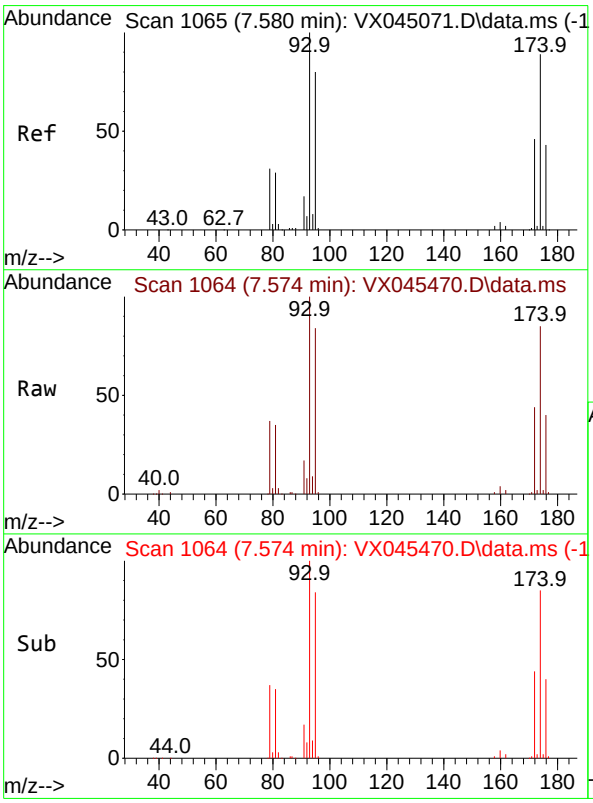
Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

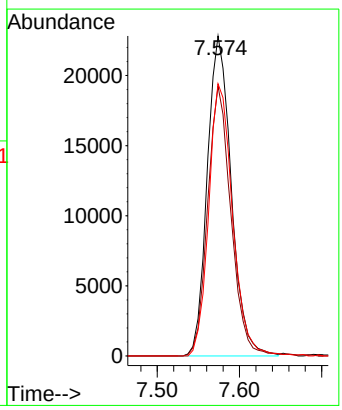
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

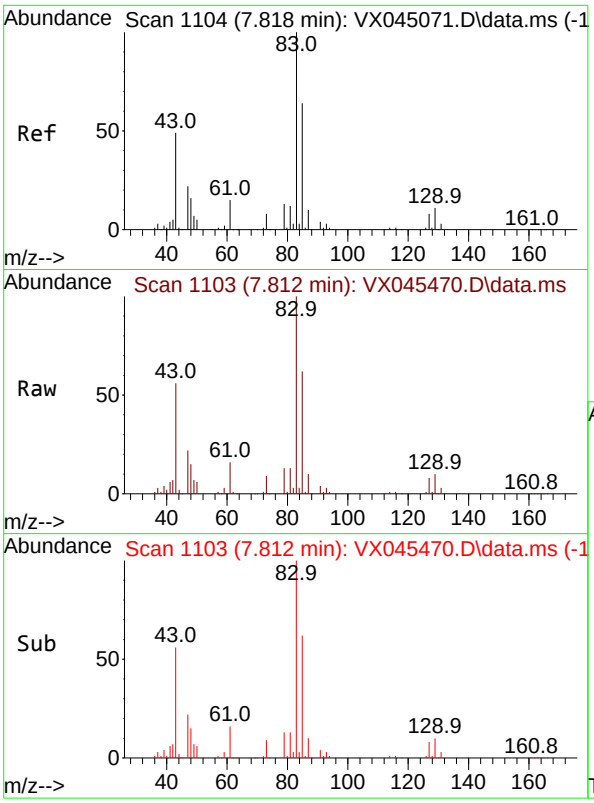


#46
Dibromomethane
Concen: 60.735 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 93 Resp: 46224

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.8	98.8
174	84.9	72.2	108.2

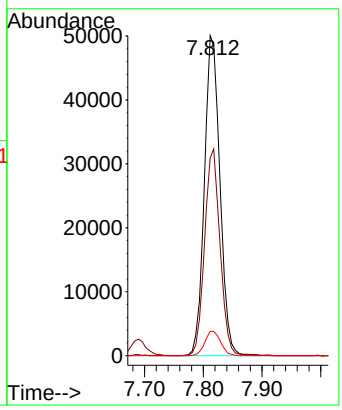




#47
Bromodichloromethane
Concen: 61.857 ug/l
RT: 7.812 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 83 Resp: 9234

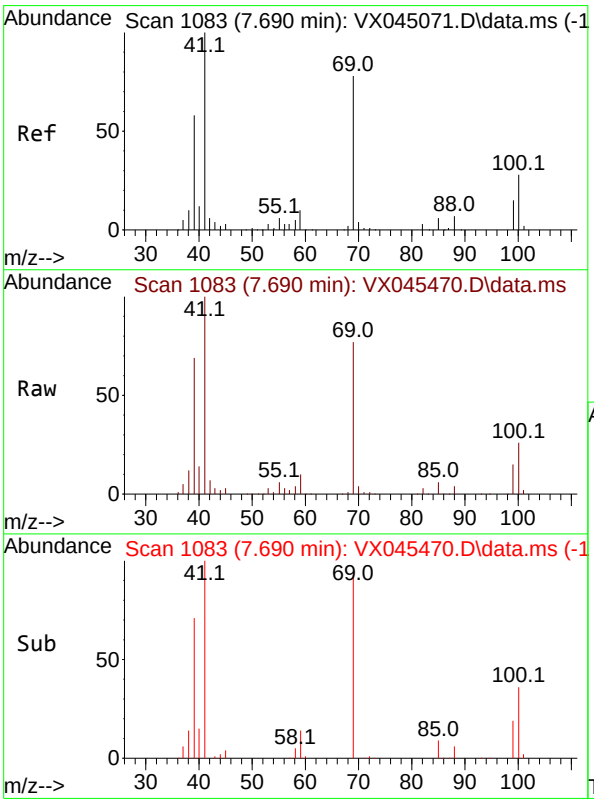
Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	7.6	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

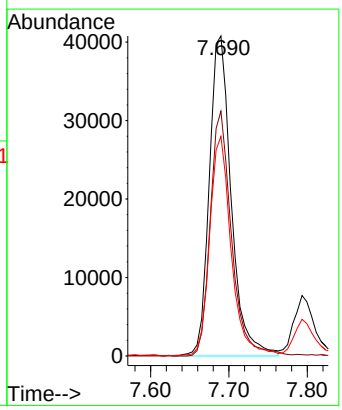
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

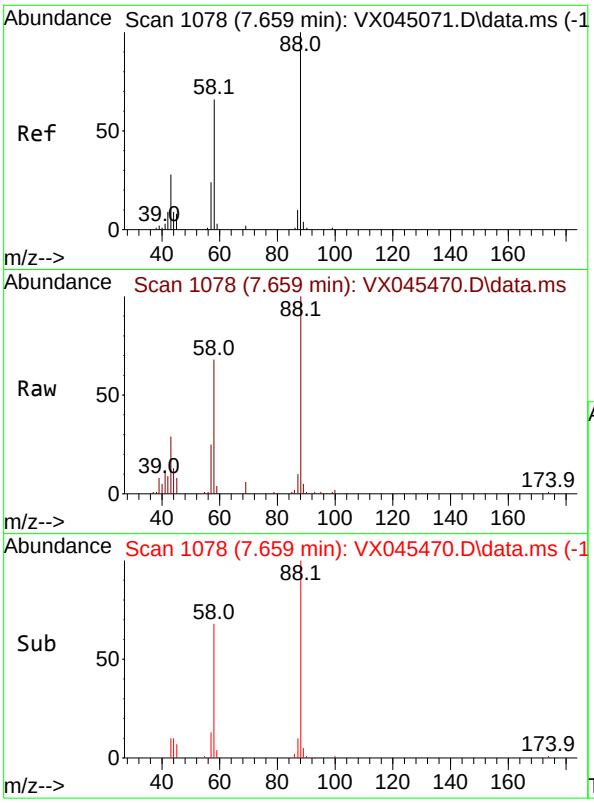


#48
Methyl methacrylate
Concen: 62.623 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 41 Resp: 79394

Ion	Ratio	Lower	Upper
41	100		
69	74.2	63.0	94.6
39	67.3	47.5	71.3





#49
1,4-Dioxane
Concen: 929.442 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

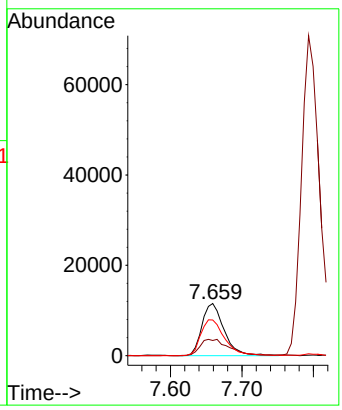
Tgt Ion: 88 Resp: 2485

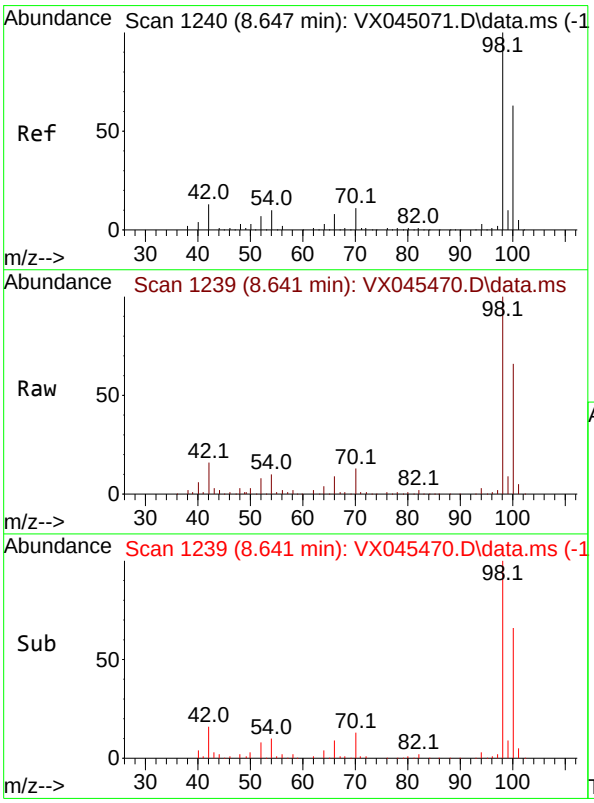
Ion	Ratio	Lower	Upper
88	100		
43	41.3	28.7	43.1
58	74.5	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

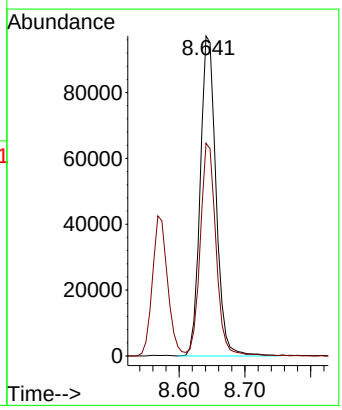


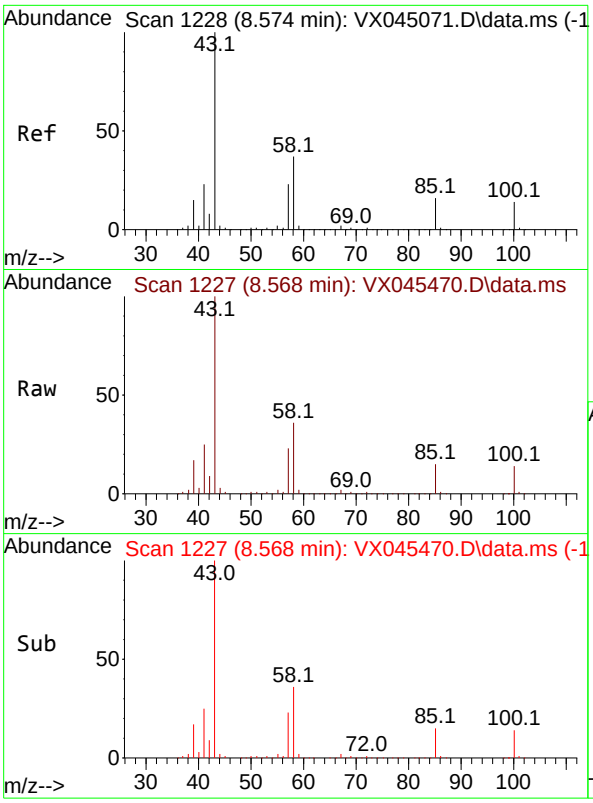


#50
Toluene-d8
Concen: 46.211 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 98 Resp: 162016

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.0	78.0

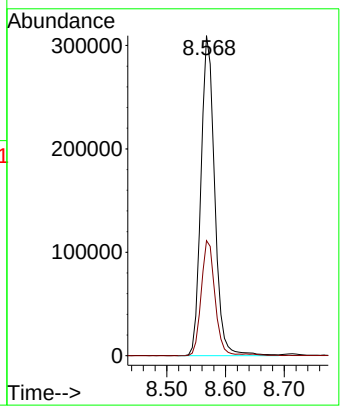




#51
4-Methyl-2-Pentanone
Concen: 295.634 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 50162

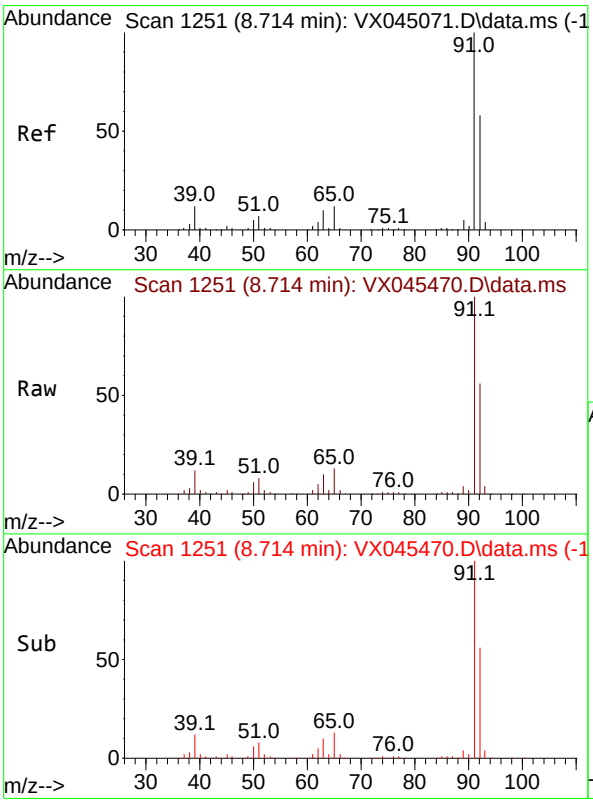
Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

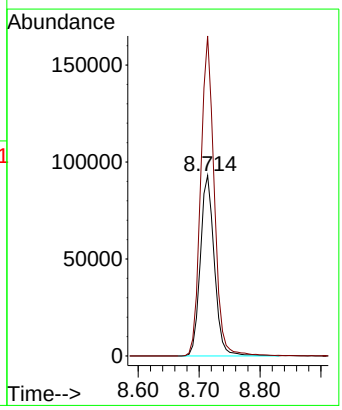
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

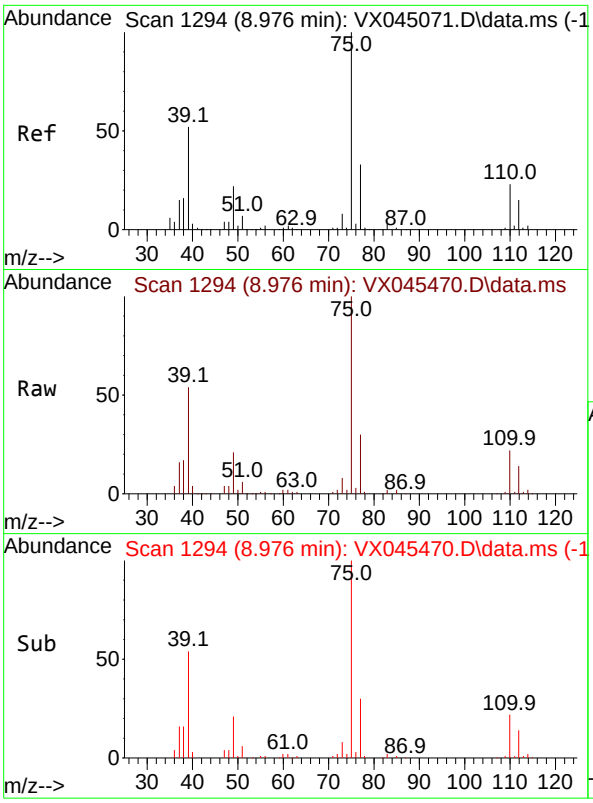


#52
Toluene
Concen: 60.468 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 92 Resp: 148581

Ion	Ratio	Lower	Upper
92	100		
91	172.2	138.9	208.3

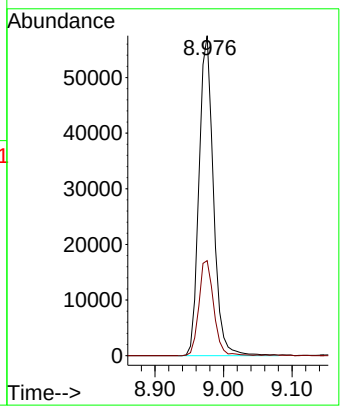




#53
t-1,3-Dichloropropene
Concen: 67.431 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 8415

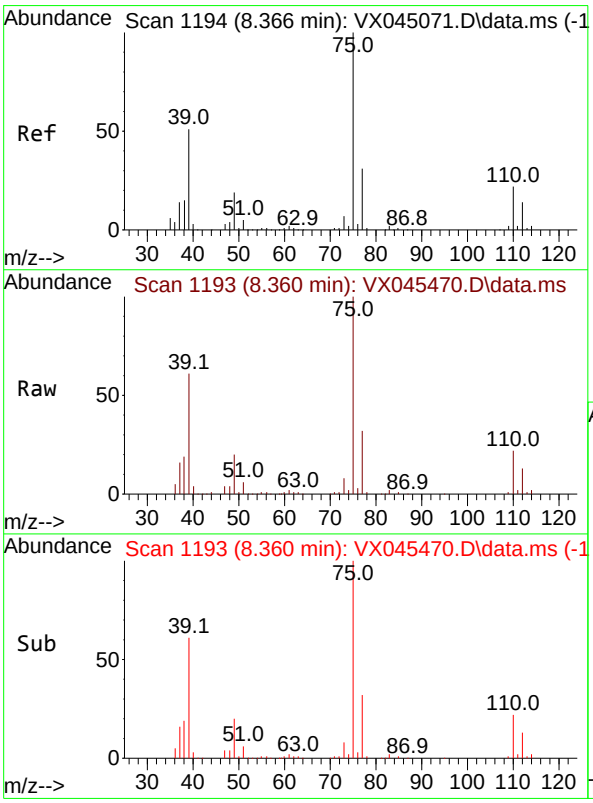
Ion	Ratio	Lower	Upper
75	100		
77	29.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

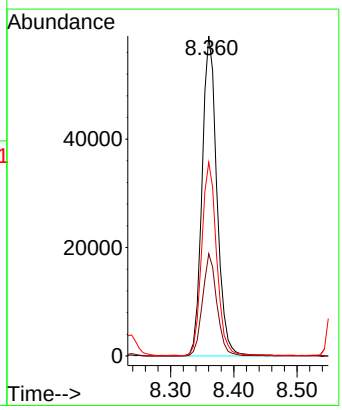
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

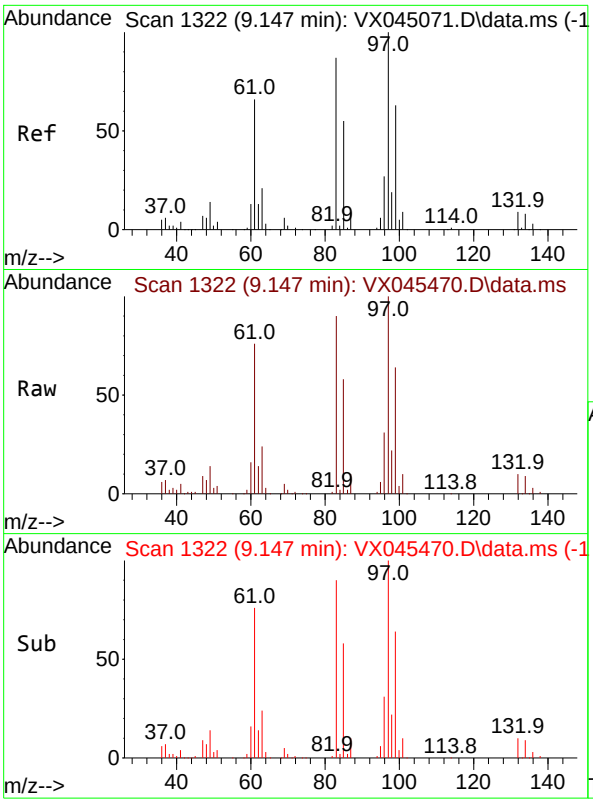


#54
cis-1,3-Dichloropropene
Concen: 66.080 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 96166

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.7	37.1
39	60.3	40.7	61.1

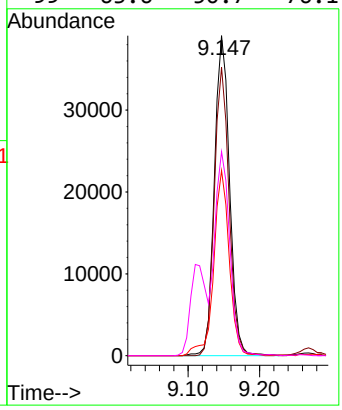




#55
1,1,2-Trichloroethane
Concen: 57.001 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 97 Resp: 5766

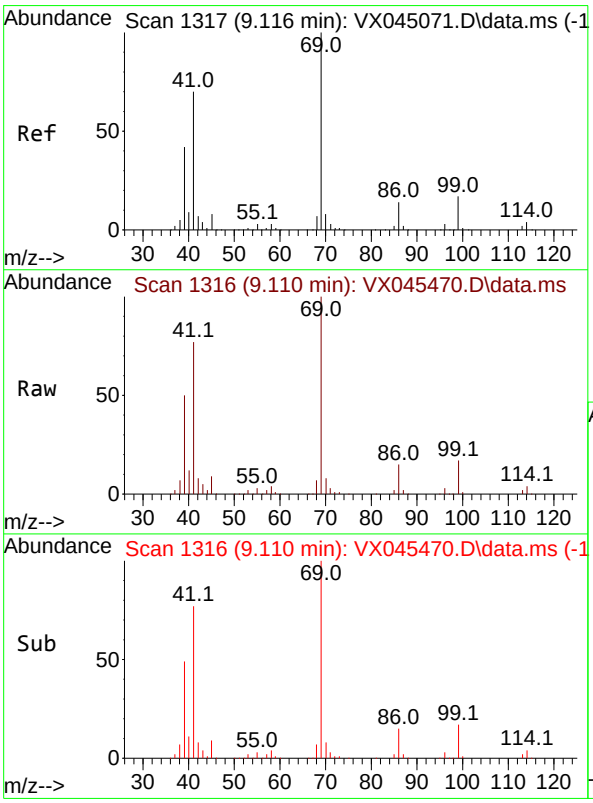
Ion	Ratio	Lower	Upper
97	100		
83	90.1	69.4	104.2
85	57.9	44.1	66.1
99	63.6	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

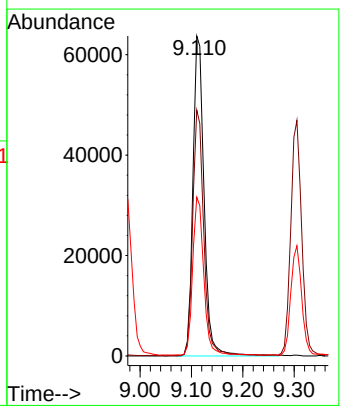
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

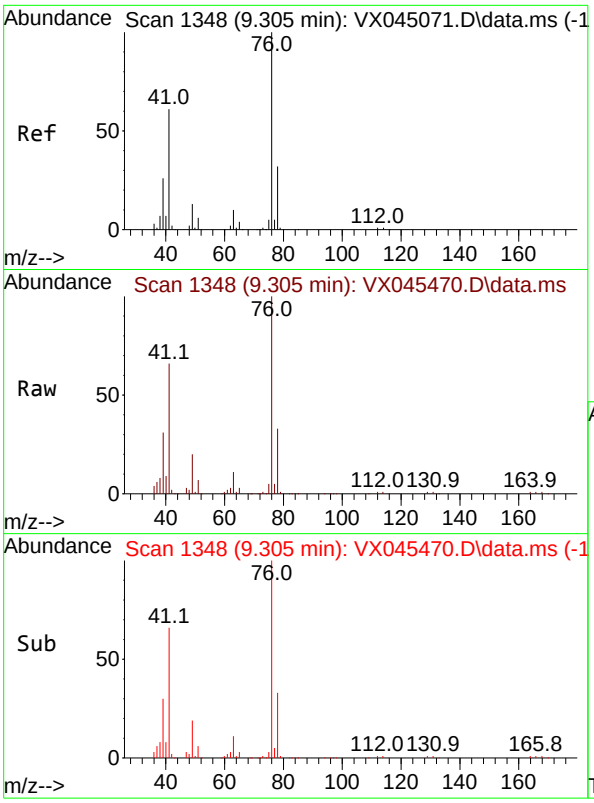


#56
Ethyl methacrylate
Concen: 62.321 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 69 Resp: 95827

Ion	Ratio	Lower	Upper
69	100		
41	76.1	57.0	85.4
39	49.4	34.2	51.4





#57
1,3-Dichloropropane
Concen: 58.517 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

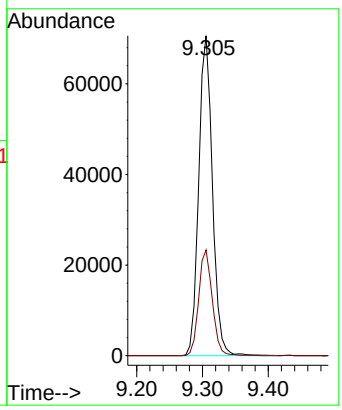
Tgt Ion: 76 Resp: 10243

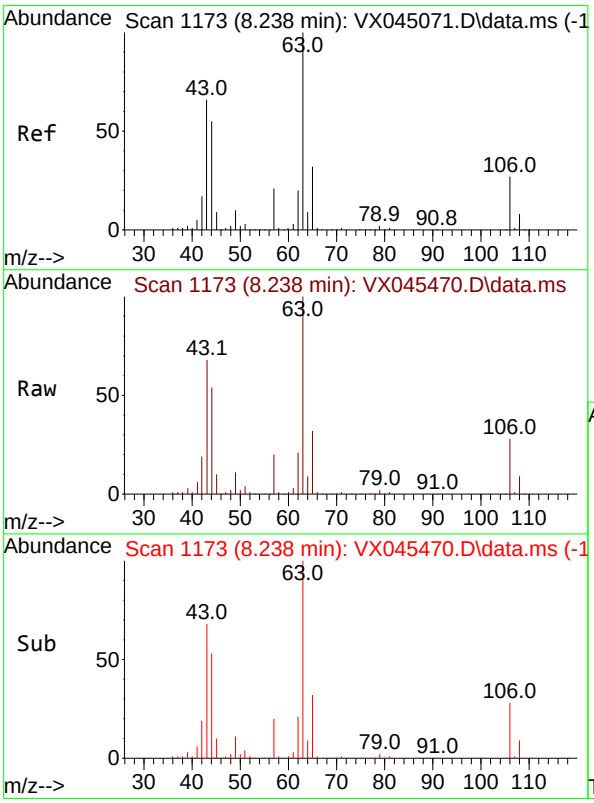
Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

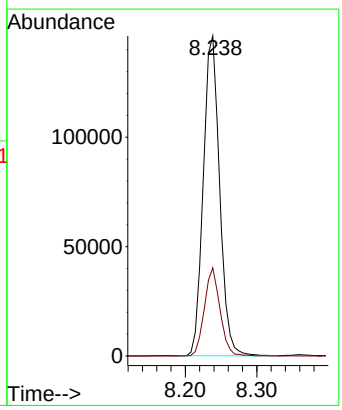


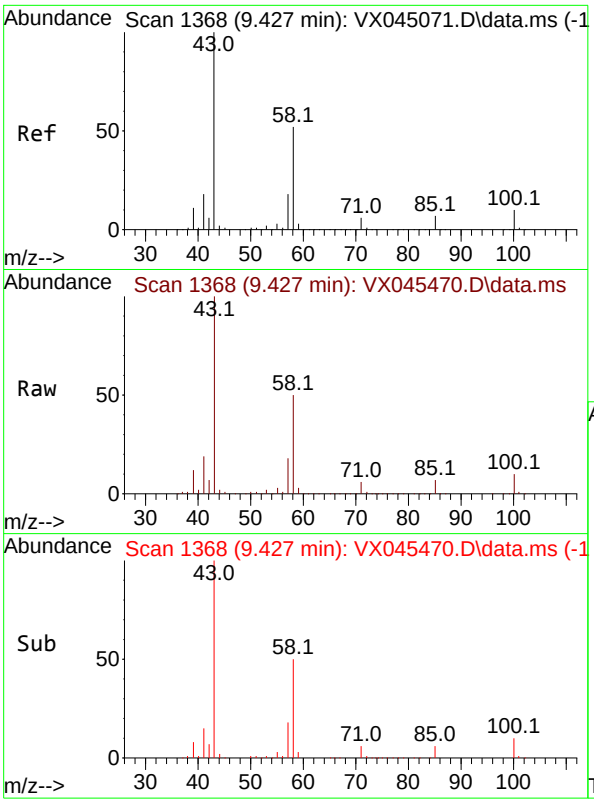


#58
2-Chloroethyl Vinyl ether
Concen: 309.665 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 63 Resp: 232271

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.5	32.3





#59
2-Hexanone
Concen: 300.058 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

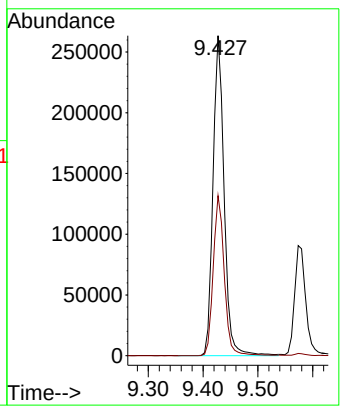
Tgt Ion: 43 Resp: 36888

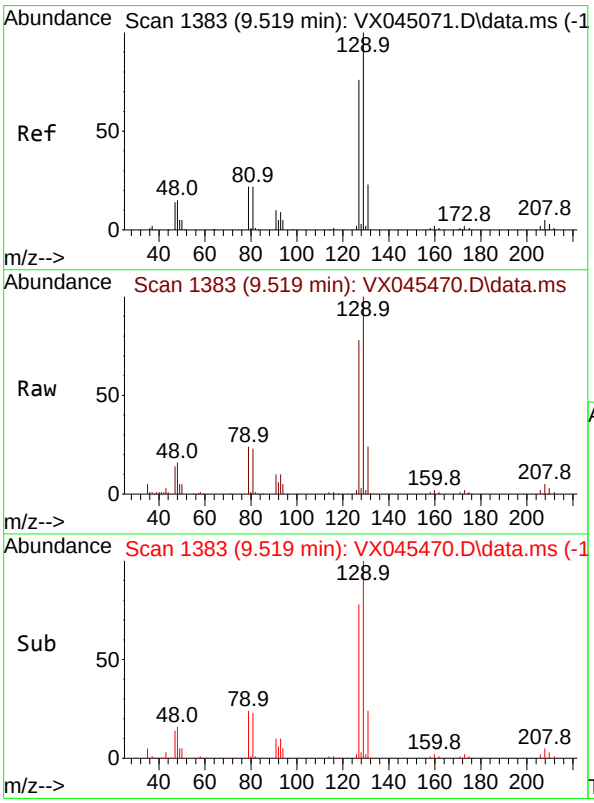
Ion	Ratio	Lower	Upper
43	100		
58	50.0	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

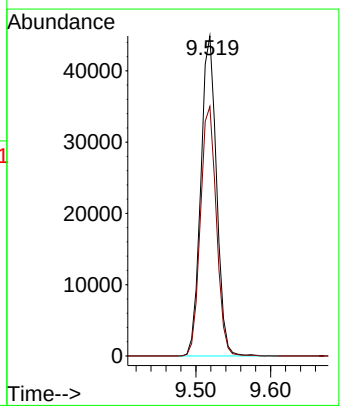


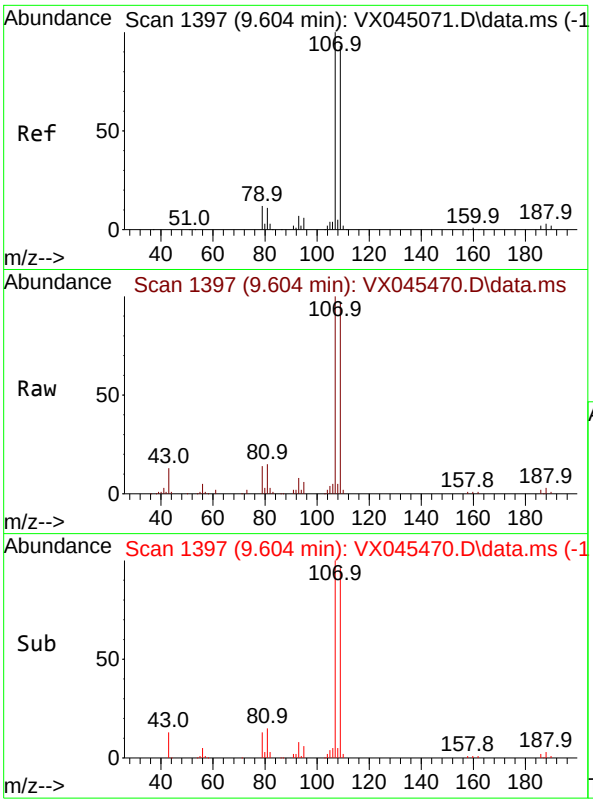


#60
Dibromochloromethane
Concen: 61.881 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:129 Resp: 65450

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5

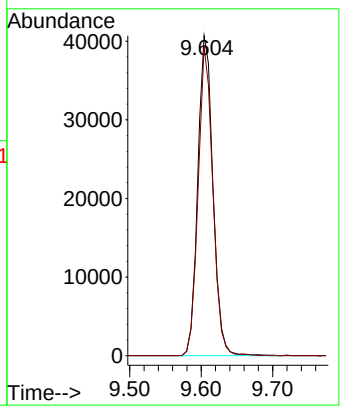




#61
1,2-Dibromoethane
Concen: 59.203 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:107 Resp: 5978

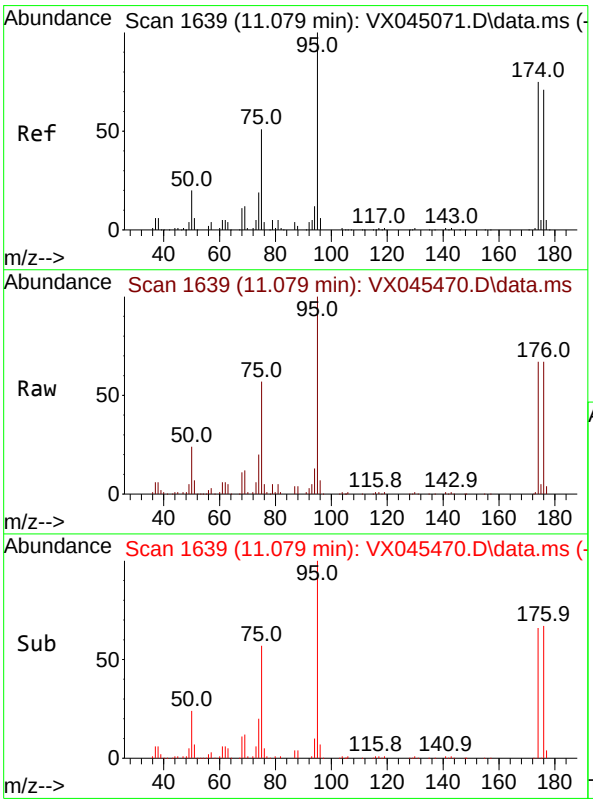
Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

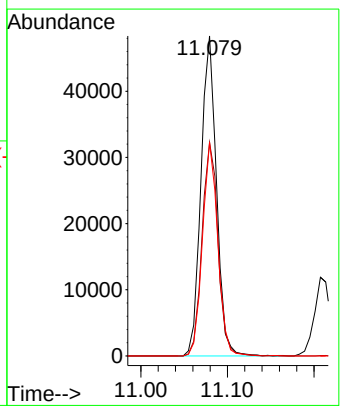
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

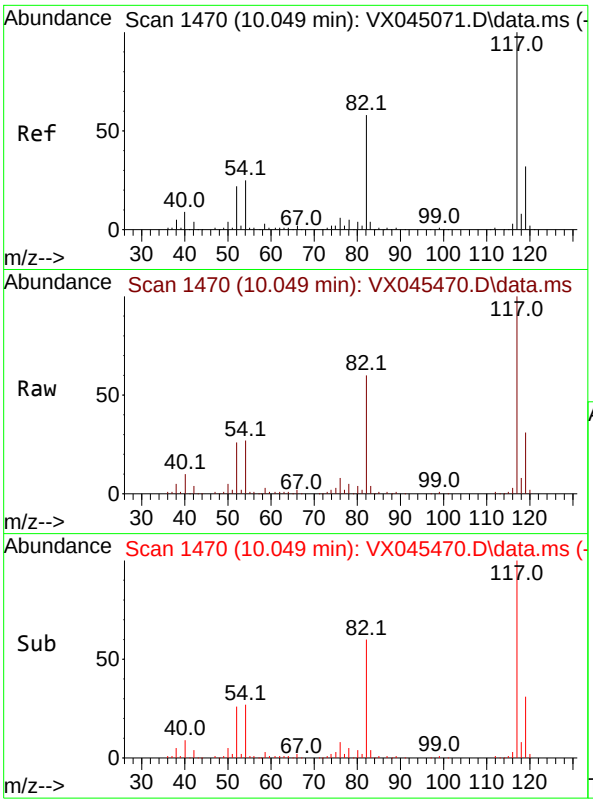


#62
4-Bromofluorobenzene
Concen: 51.714 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 95 Resp: 60080

Ion	Ratio	Lower	Upper
95	100		
174	68.8	0.0	148.2
176	66.0	0.0	141.4

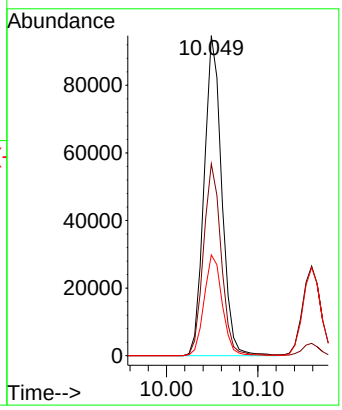




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:117 Resp: 12638

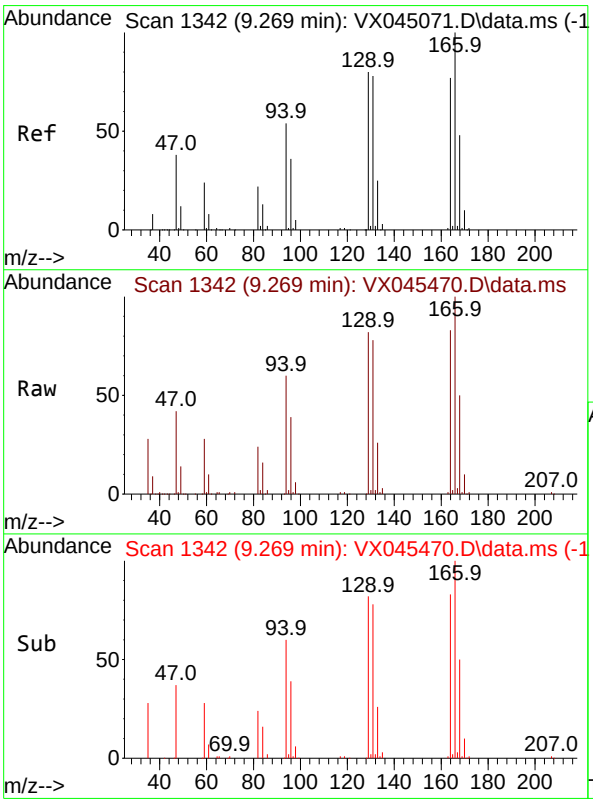
Ion	Ratio	Lower	Upper
117	100		
82	60.0	46.3	69.5
119	31.5	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

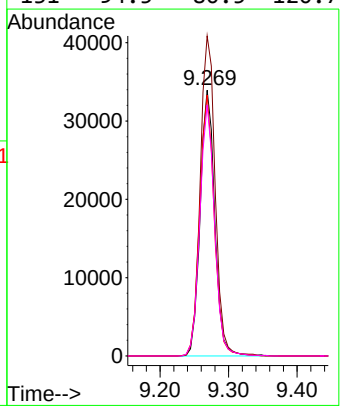
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

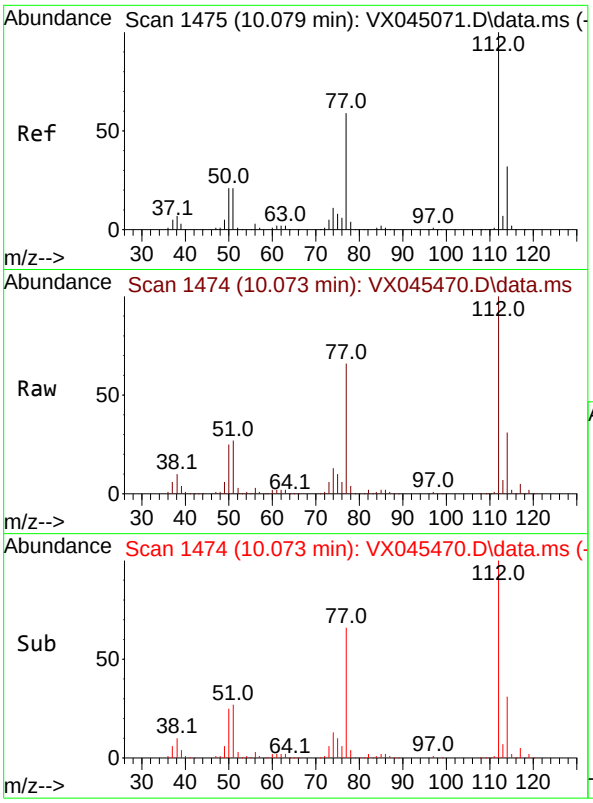


#64
Tetrachloroethene
Concen: 61.975 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:164 Resp: 50166

Ion	Ratio	Lower	Upper
164	100		
166	120.4	103.6	155.4
129	98.2	82.7	124.1
131	94.5	80.5	120.7

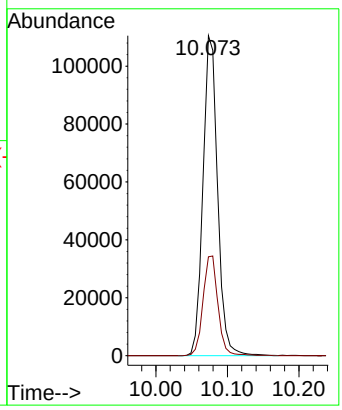




#65
Chlorobenzene
Concen: 58.675 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:112 Resp: 15691

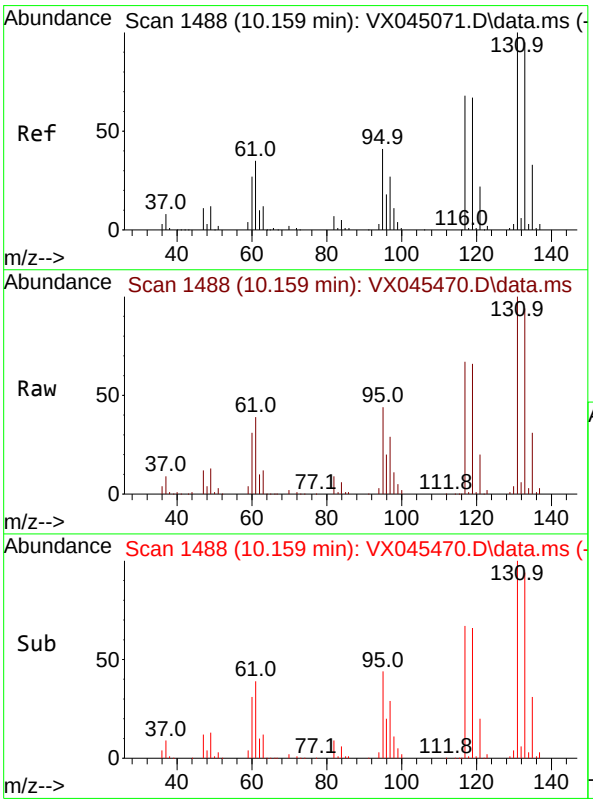
Ion	Ratio	Lower	Upper
112	100		
114	30.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

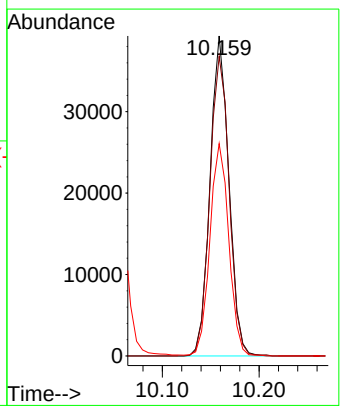
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

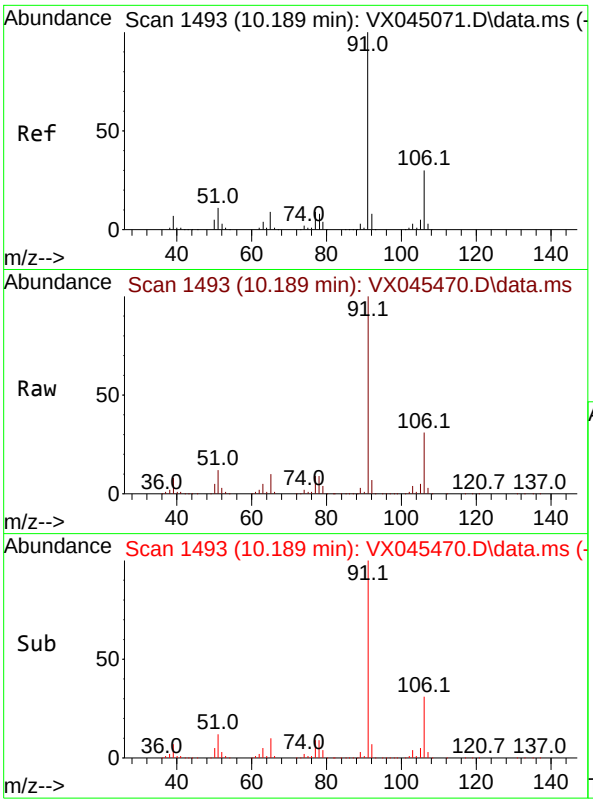


#66
1,1,1,2-Tetrachloroethane
Concen: 59.666 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:131 Resp: 53138

Ion	Ratio	Lower	Upper
131	100		
133	96.4	48.6	145.9
119	66.7	33.9	101.7

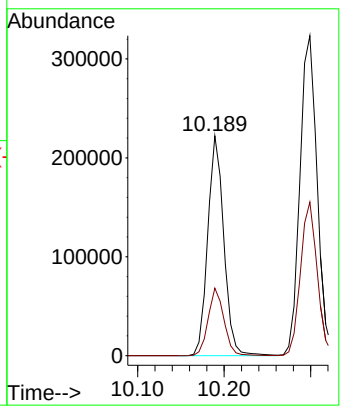




#67
Ethyl Benzene
Concen: 61.556 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 91 Resp: 28683

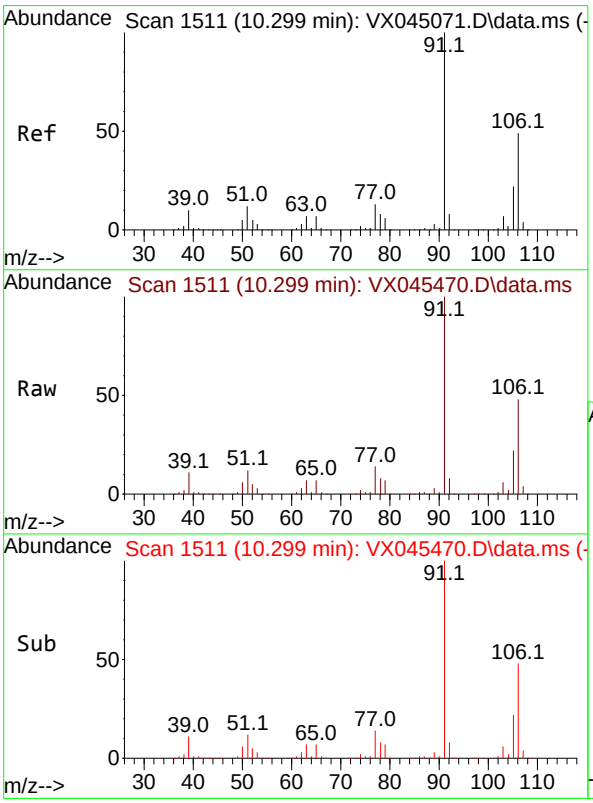
Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

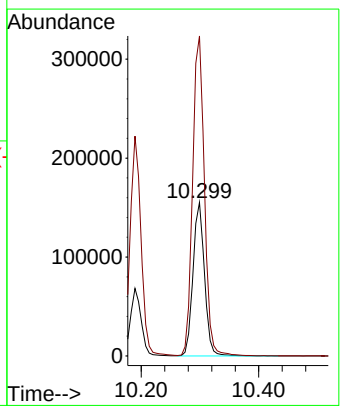
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

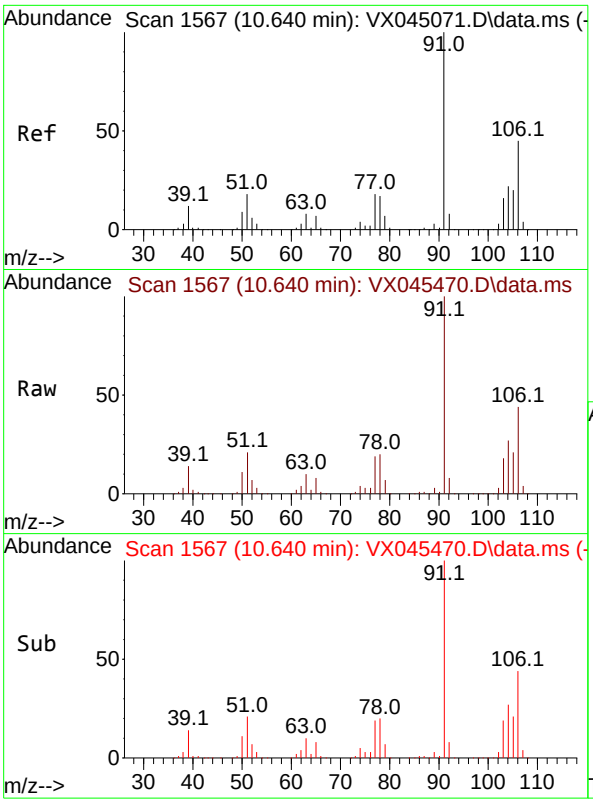


#68
m/p-Xylenes
Concen: 123.563 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:106 Resp: 210779

Ion	Ratio	Lower	Upper
106	100		
91	213.7	165.4	248.0

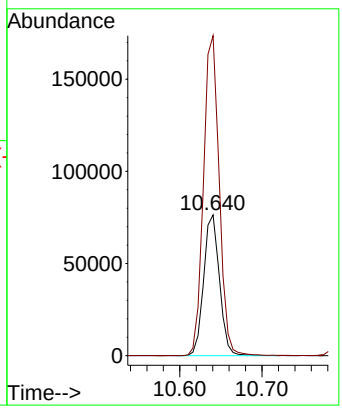




#69
o-Xylene
Concen: 59.282 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:106 Resp: 10199

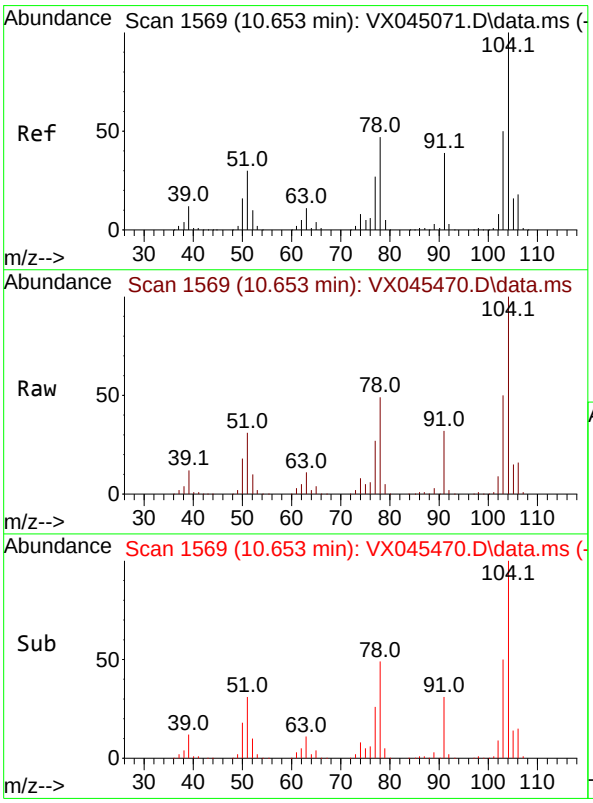
Ion	Ratio	Lower	Upper
106	100		
91	227.0	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

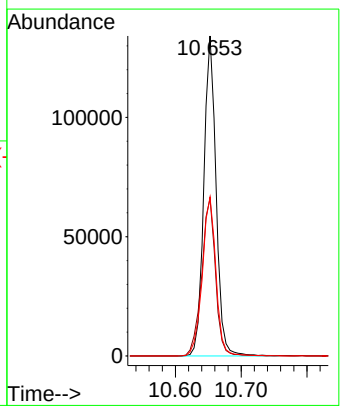
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

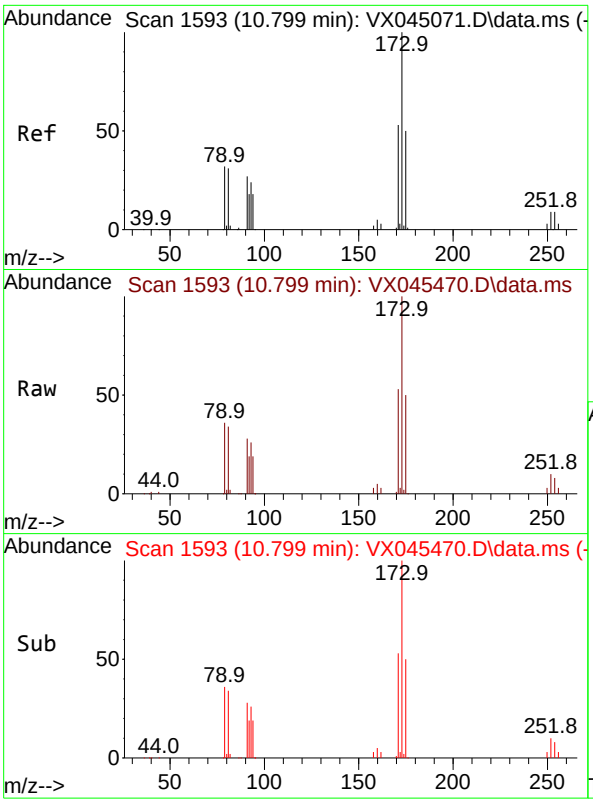


#70
Styrene
Concen: 62.523 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:104 Resp: 174051

Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.2	63.4
103	55.4	43.8	65.8

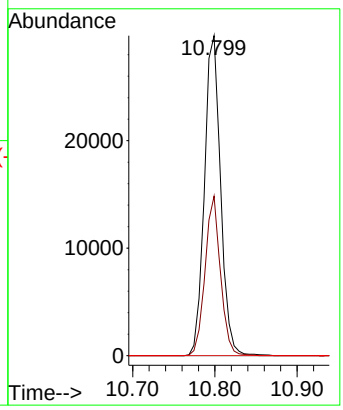




#71
Bromoform
Concen: 60.576 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:173 Resp: 4068

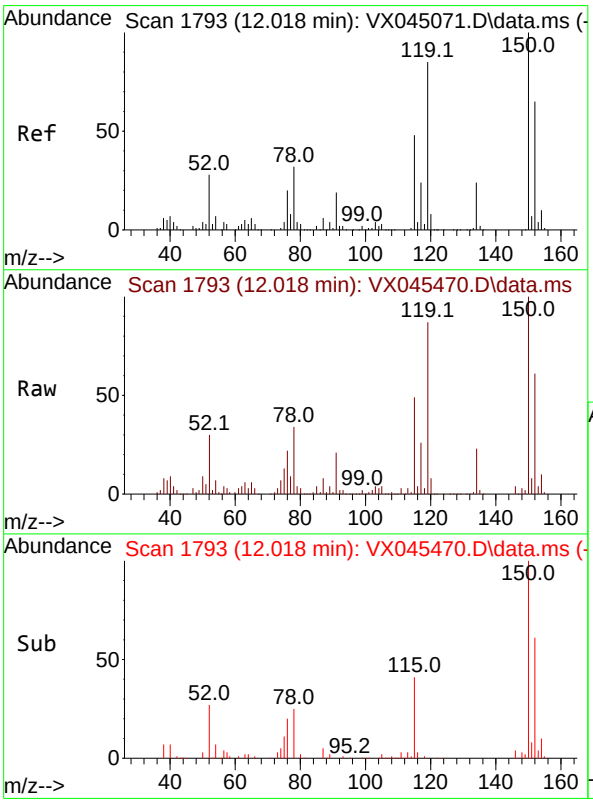
Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

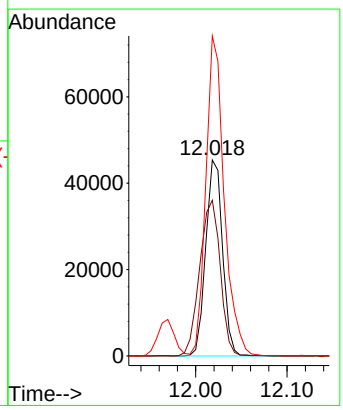
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

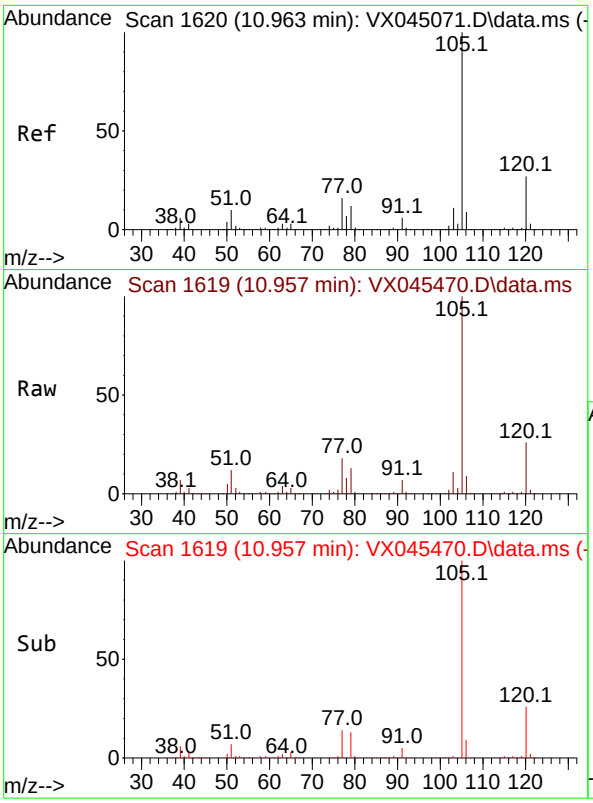


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:152 Resp: 57791

Ion	Ratio	Lower	Upper
152	100		
115	97.3	44.2	132.6
150	177.6	0.0	349.0

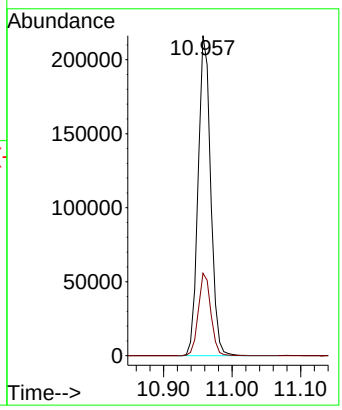




#73
Isopropylbenzene
Concen: 61.143 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:105 Resp: 27580

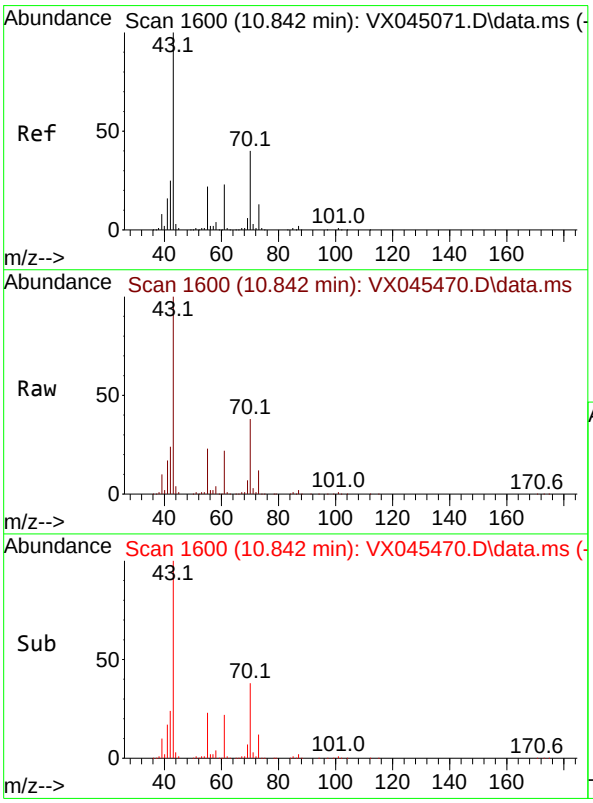
Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

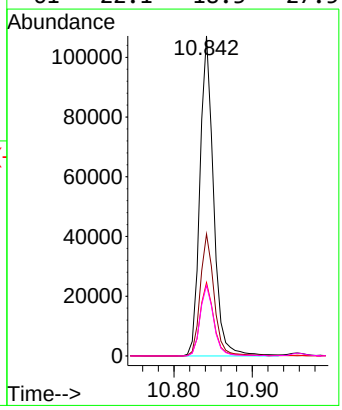
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

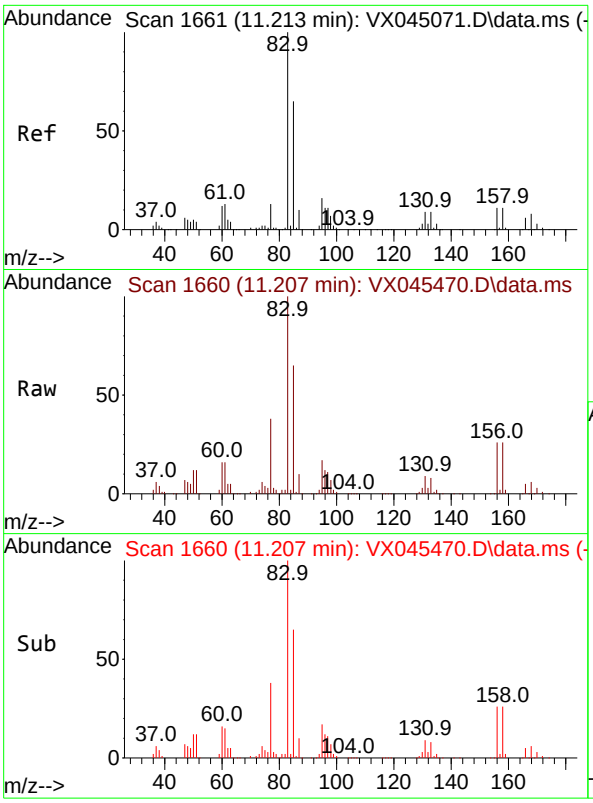


#74
N-amyl acetate
Concen: 61.124 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 129374

Ion	Ratio	Lower	Upper
43	100		
70	38.8	31.8	47.6
55	23.3	18.3	27.5
61	22.1	18.3	27.5

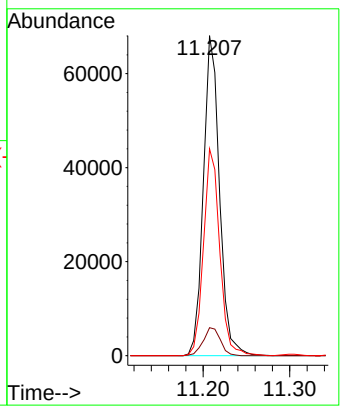




#75
1,1,2,2-Tetrachloroethane
Concen: 53.116 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 83 Resp: 8792

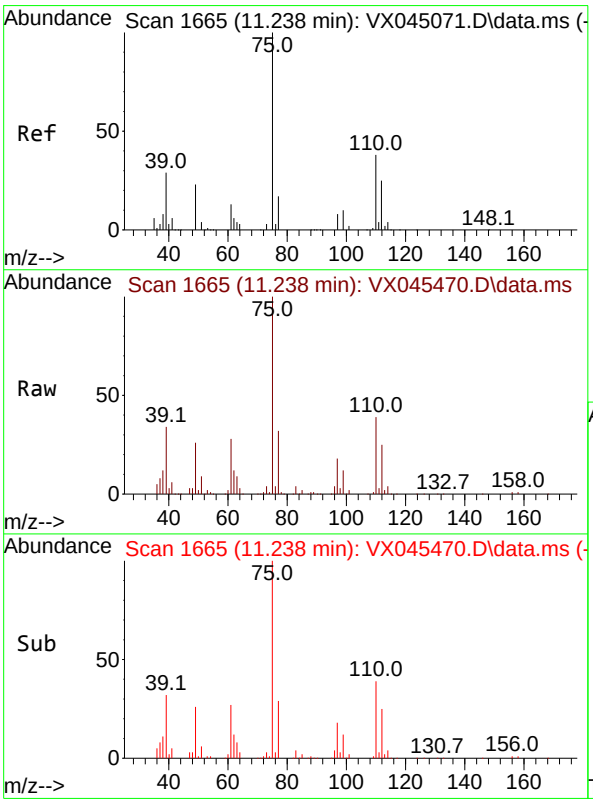
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.4
85	64.9	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

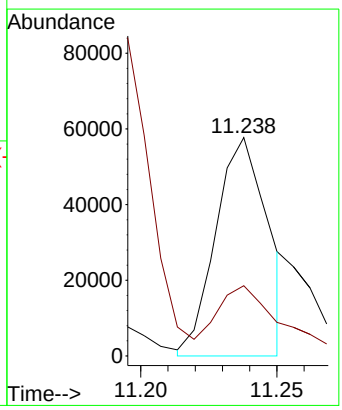
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

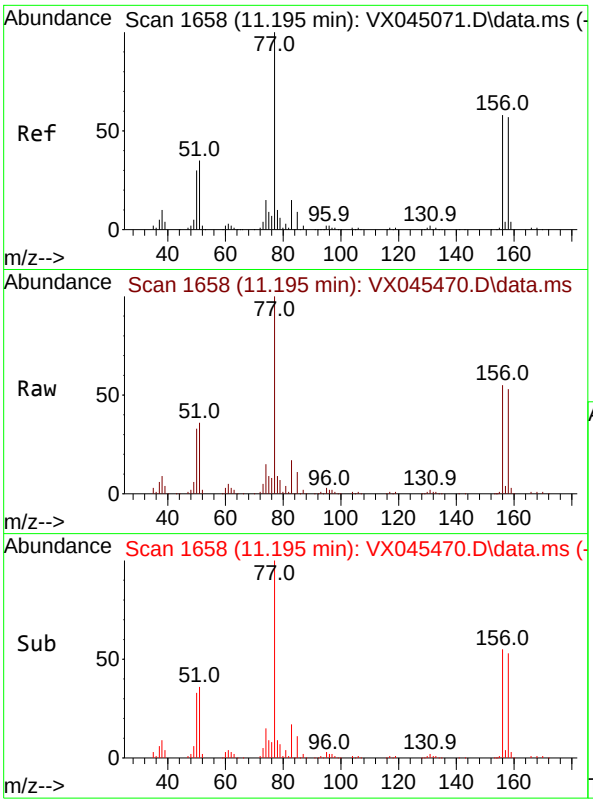


#76
1,2,3-Trichloropropane
Concen: 56.934 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 76581

Ion	Ratio	Lower	Upper
75	100		
77	40.2	20.7	62.1

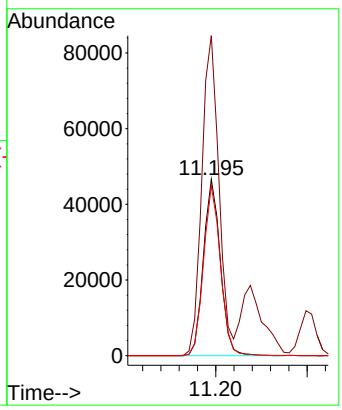




#77
Bromobenzene
Concen: 56.145 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:156 Resp: 5975

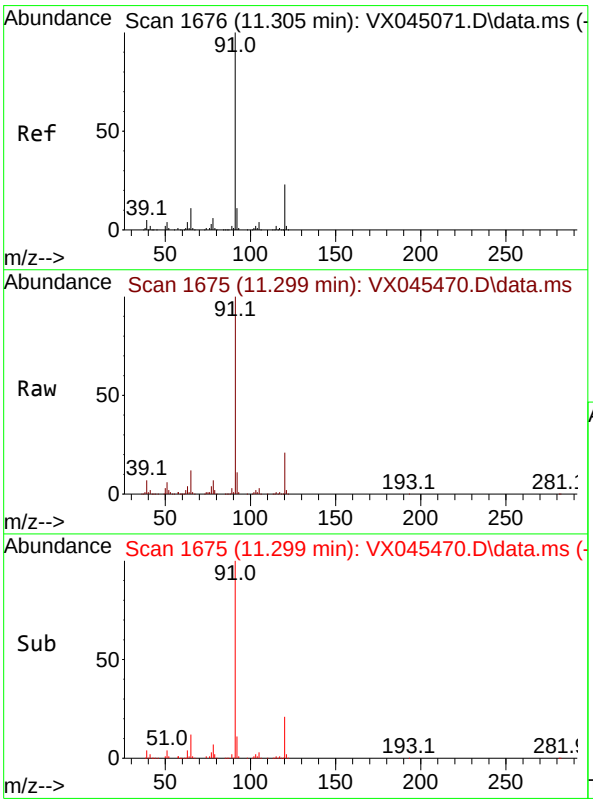
Ion	Ratio	Lower	Upper
156	100		
77	183.9	85.8	257.4
158	96.4	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

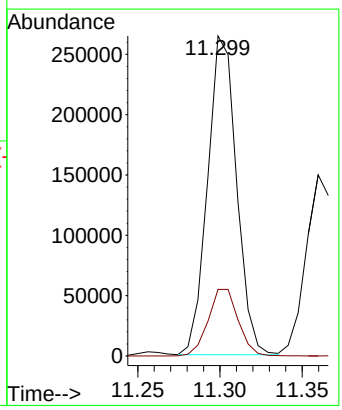
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

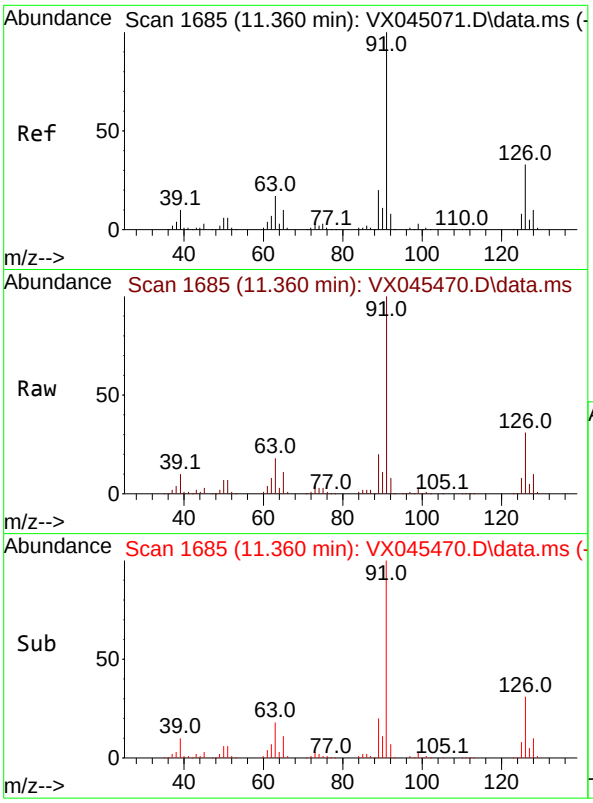


#78
n-propylbenzene
Concen: 63.648 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 91 Resp: 324320

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6

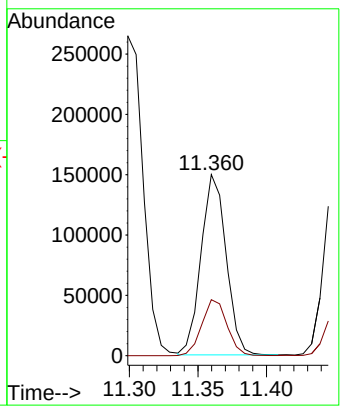




#79
2-Chlorotoluene
Concen: 58.698 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 91 Resp: 19048

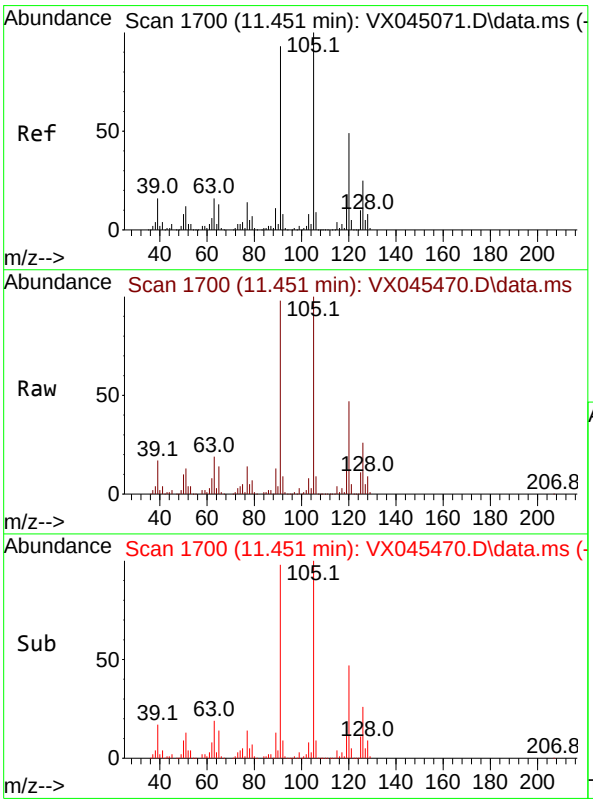
Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

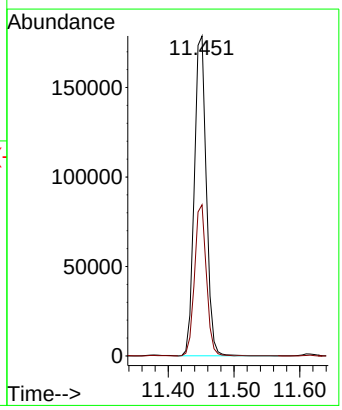
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

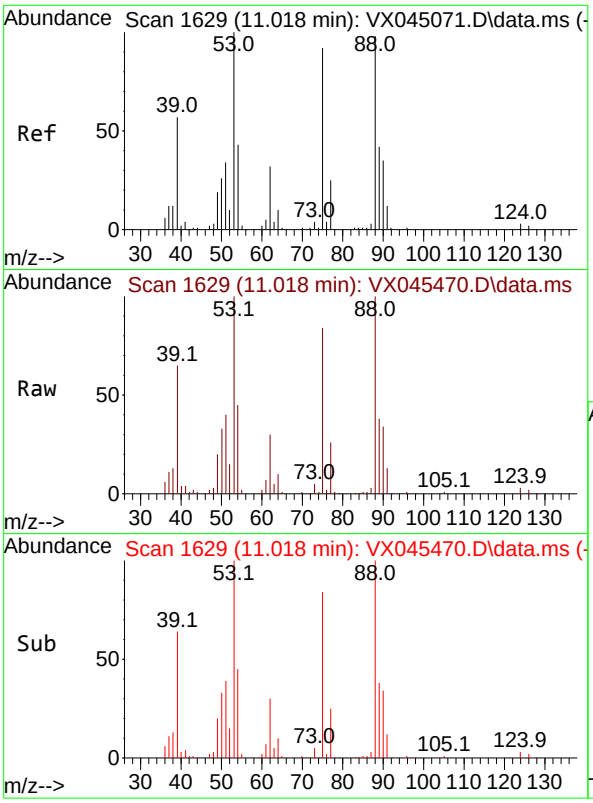


#80
1,3,5-Trimethylbenzene
Concen: 61.682 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:105 Resp: 224971

Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.2

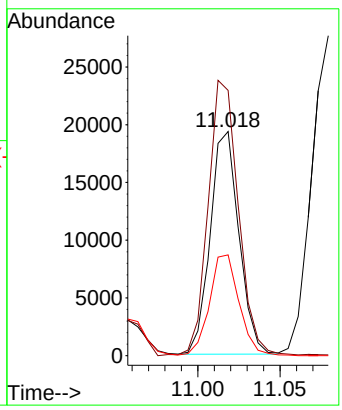




#81
trans-1,4-Dichloro-2-butene
Concen: 59.684 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 2345

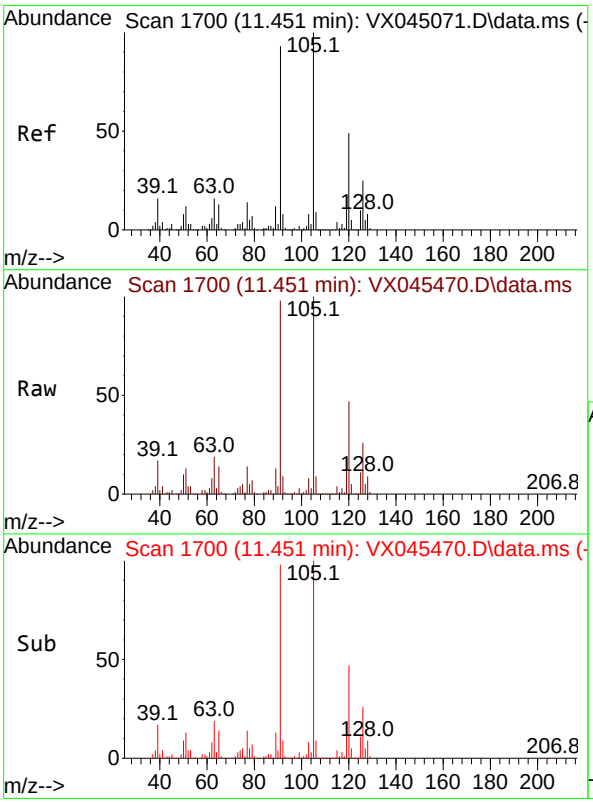
Ion	Ratio	Lower	Upper
75	100		
53	130.6	88.5	132.7
89	46.8	36.2	54.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

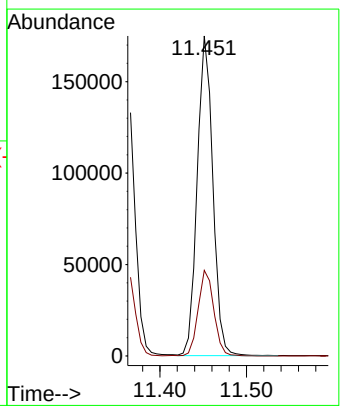
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

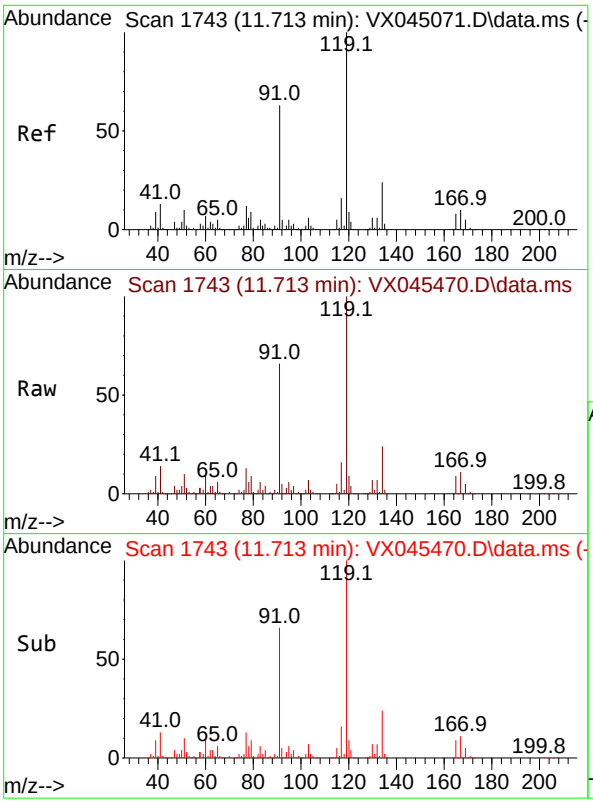


#82
4-Chlorotoluene
Concen: 61.848 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 91 Resp: 218741

Ion	Ratio	Lower	Upper
91	100		
126	26.9	14.1	42.4

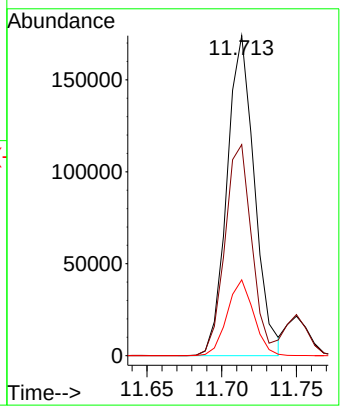




#83
tert-Butylbenzene
Concen: 59.370 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:119 Resp: 22249

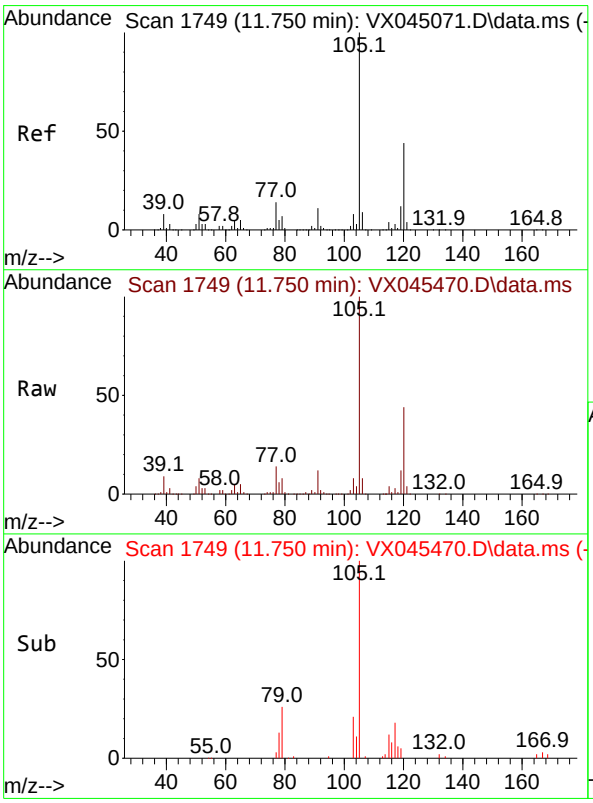
Ion	Ratio	Lower	Upper
119	100		
91	64.2	30.7	92.1
134	22.9	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

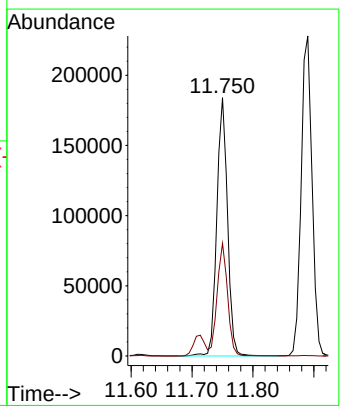
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

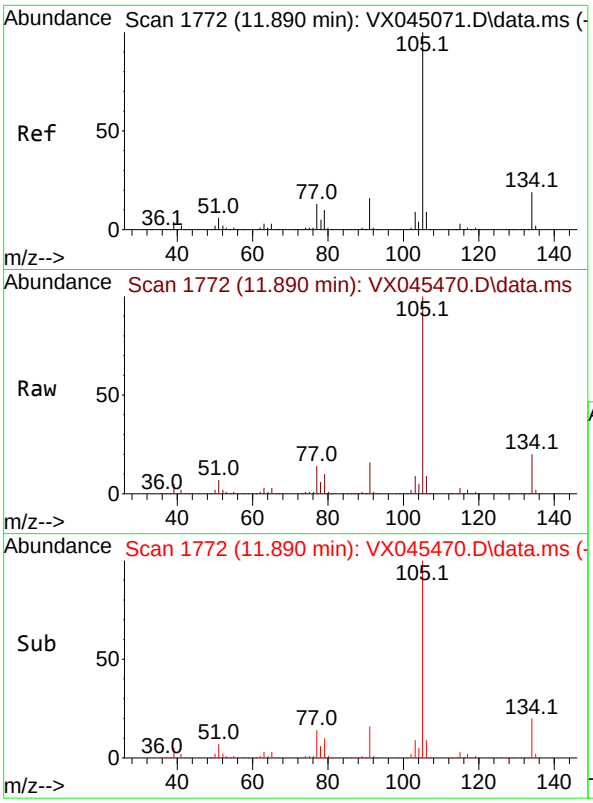


#84
1,2,4-Trimethylbenzene
Concen: 61.068 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:105 Resp: 224111

Ion	Ratio	Lower	Upper
105	100		
120	42.7	22.1	66.1

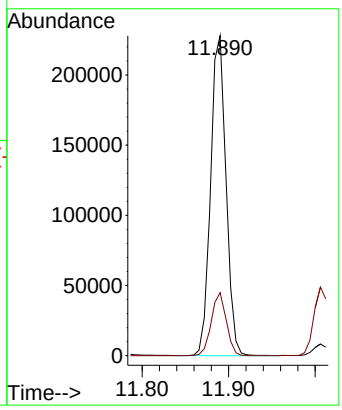




#85
sec-Butylbenzene
Concen: 62.814 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:105 Resp: 28197

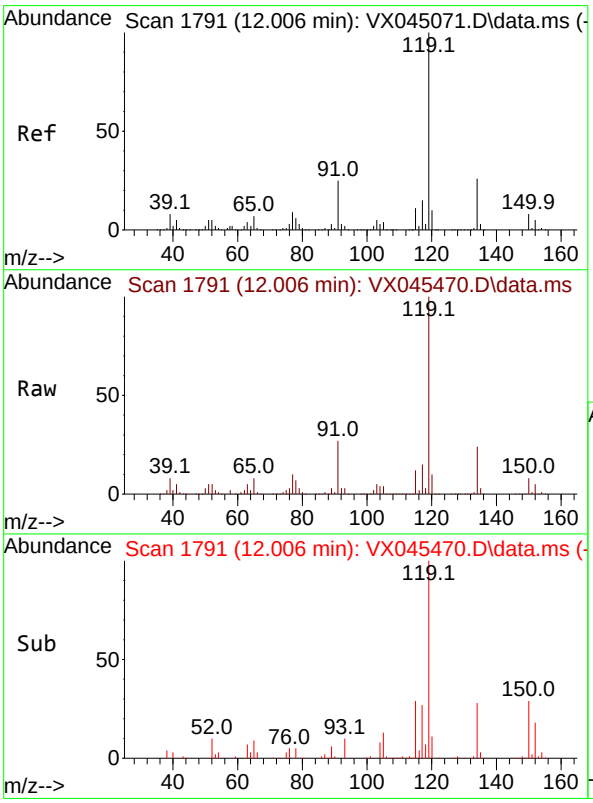
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

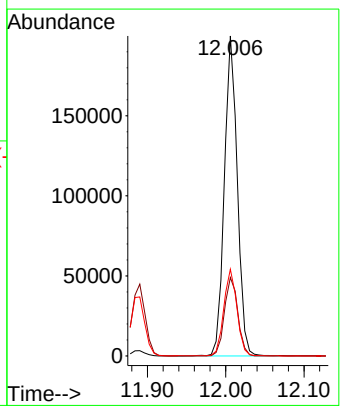
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

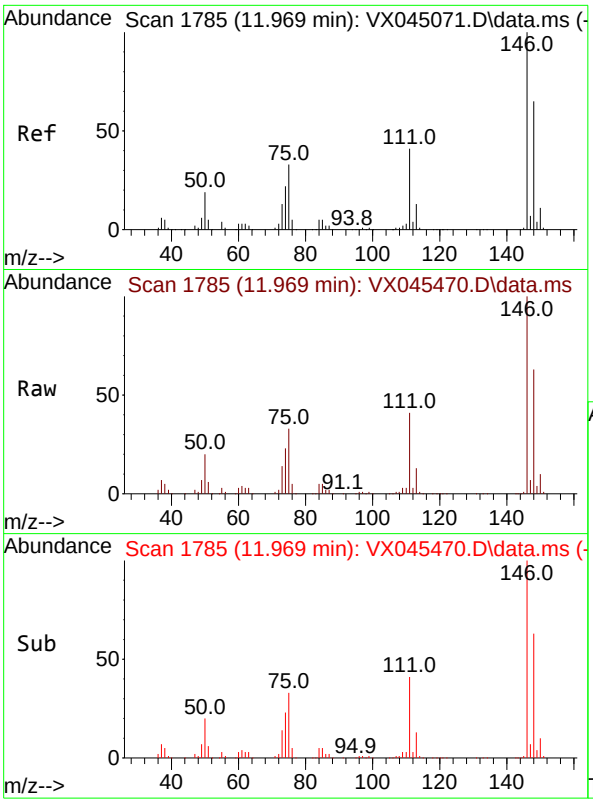


#86
p-Isopropyltoluene
Concen: 63.515 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:119 Resp: 230417

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.9	38.6
91	27.4	12.7	38.0

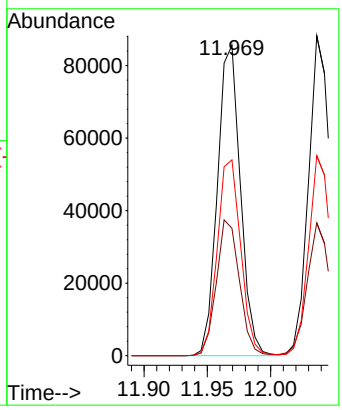




#87
1,3-Dichlorobenzene
Concen: 57.014 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:146 Resp: 10824

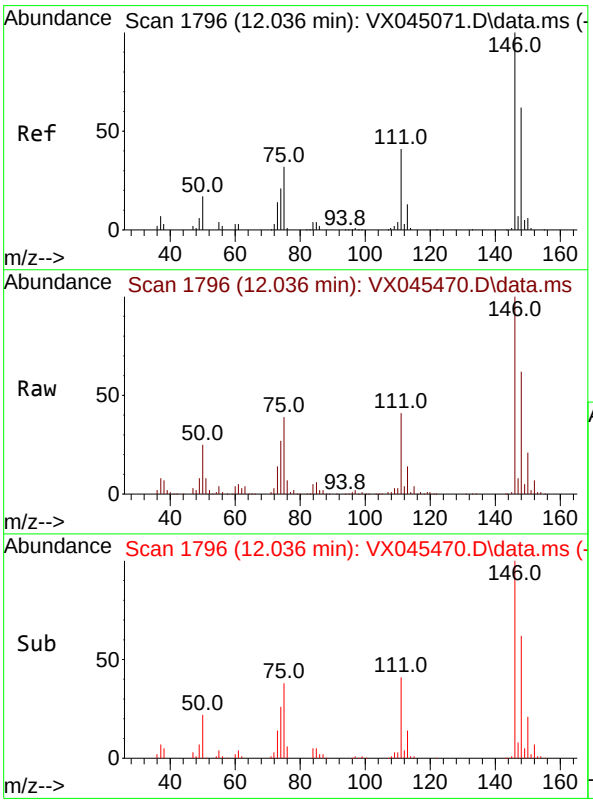
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.1	63.4
148	64.3	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

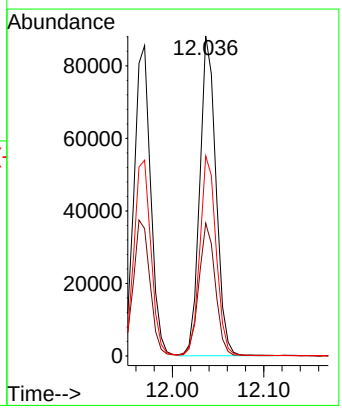
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

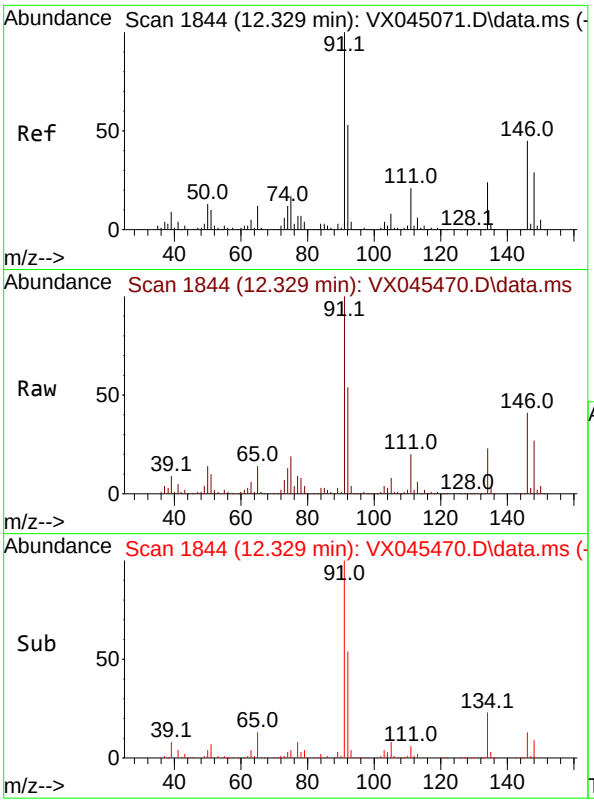


#88
1,4-Dichlorobenzene
Concen: 56.594 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:146 Resp: 108707

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.2	60.5
148	63.5	31.9	95.9





#89
n-Butylbenzene
Concen: 66.812 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

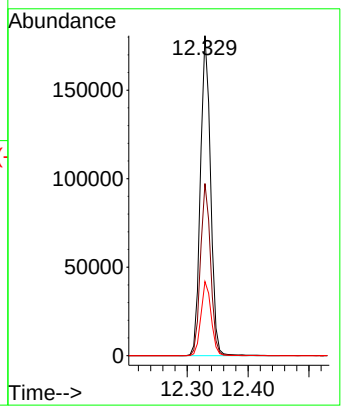
Tgt Ion: 91 Resp: 20875

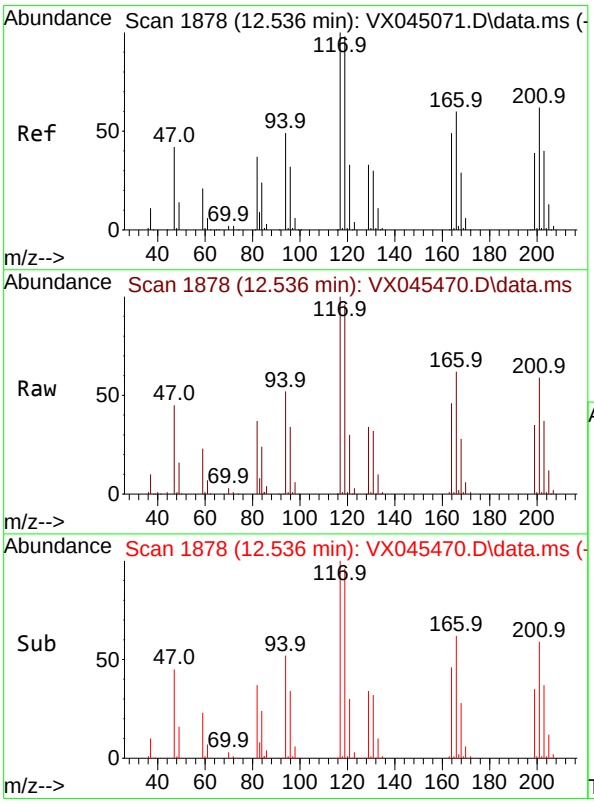
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.7	80.0
134	23.3	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

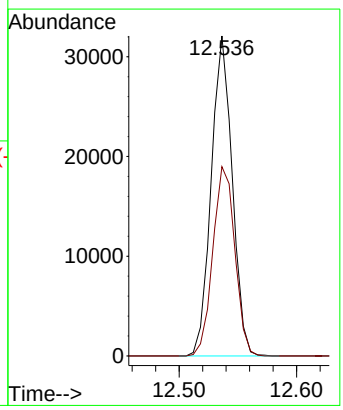


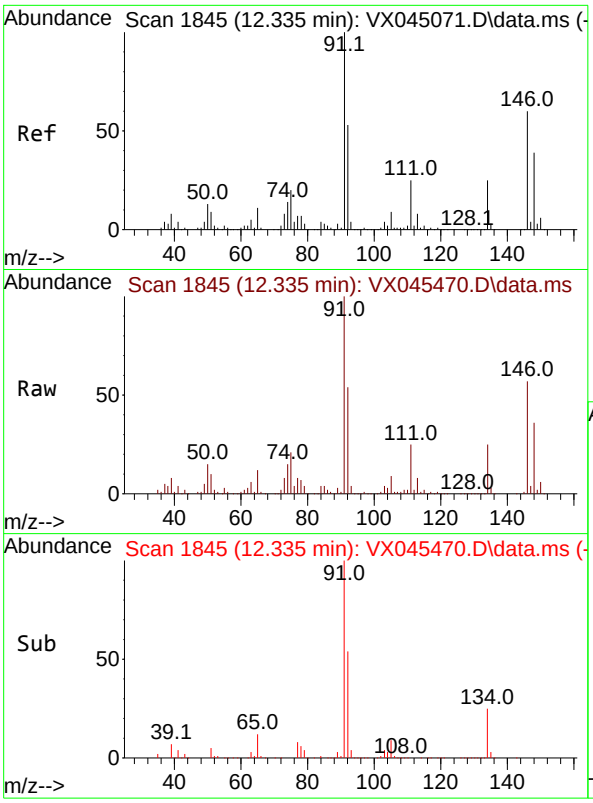


#90
Hexachloroethane
Concen: 60.711 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:117 Resp: 39837

Ion	Ratio	Lower	Upper
117	100		
201	62.1	31.9	95.9

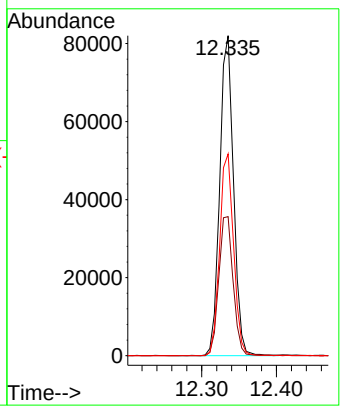




#91
1,2-Dichlorobenzene
Concen: 55.113 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:146 Resp: 10496

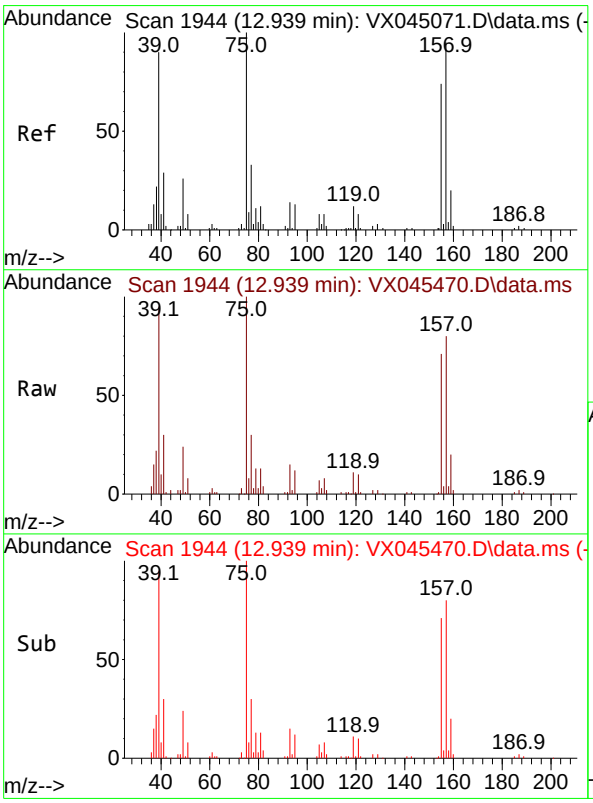
Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.6	65.0
148	63.8	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

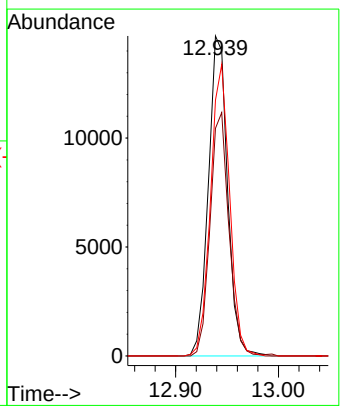
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

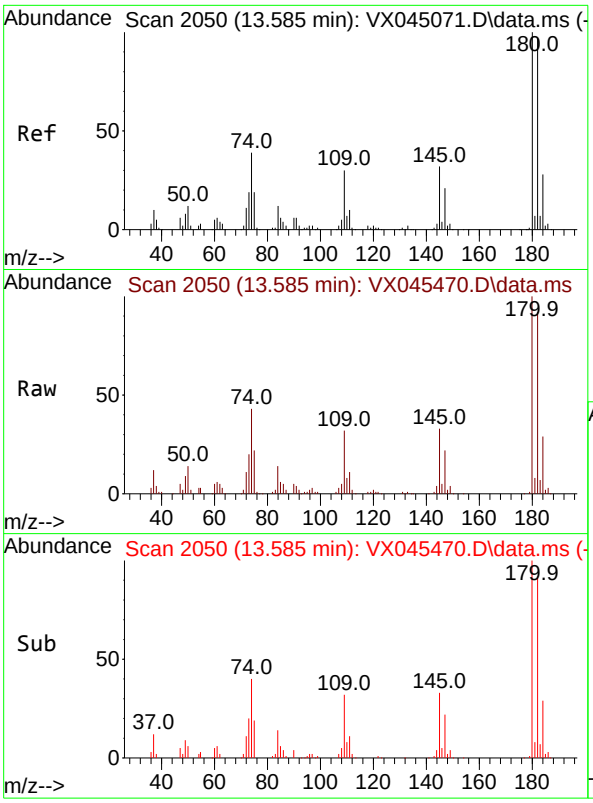


#92
1,2-Dibromo-3-Chloropropane
Concen: 59.027 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 19035

Ion	Ratio	Lower	Upper
75	100		
155	74.9	39.6	118.7
157	90.8	51.1	153.4

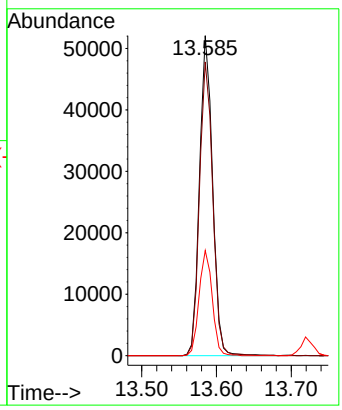




#93
1,2,4-Trichlorobenzene
Concen: 58.168 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:180 Resp: 6308

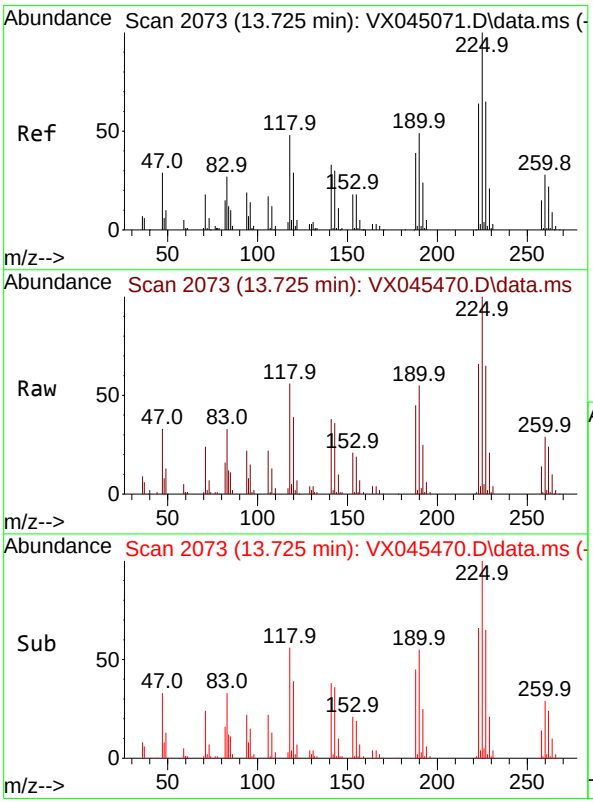
Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.3	141.9
145	33.0	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

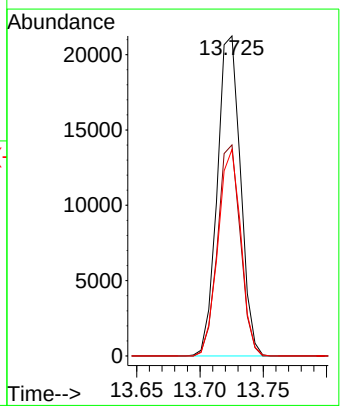
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

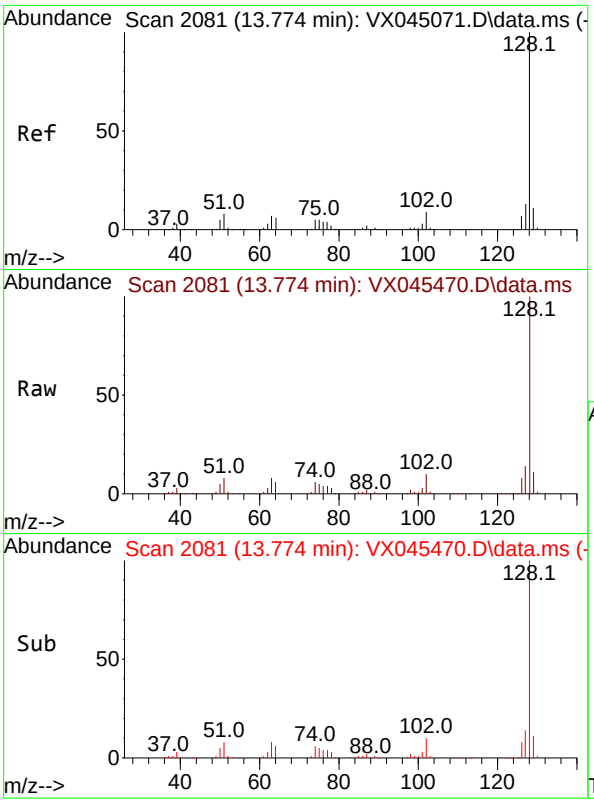


#94
Hexachlorobutadiene
Concen: 60.796 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:225 Resp: 27031

Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.9	95.7
227	63.7	31.4	94.0

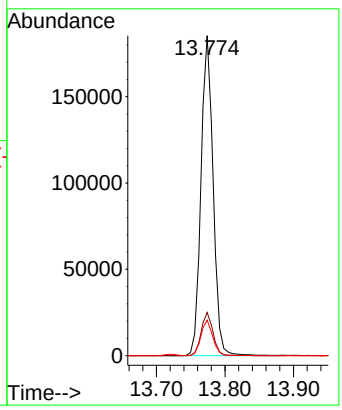




#95
Naphthalene
Concen: 54.873 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:128 Resp: 22863

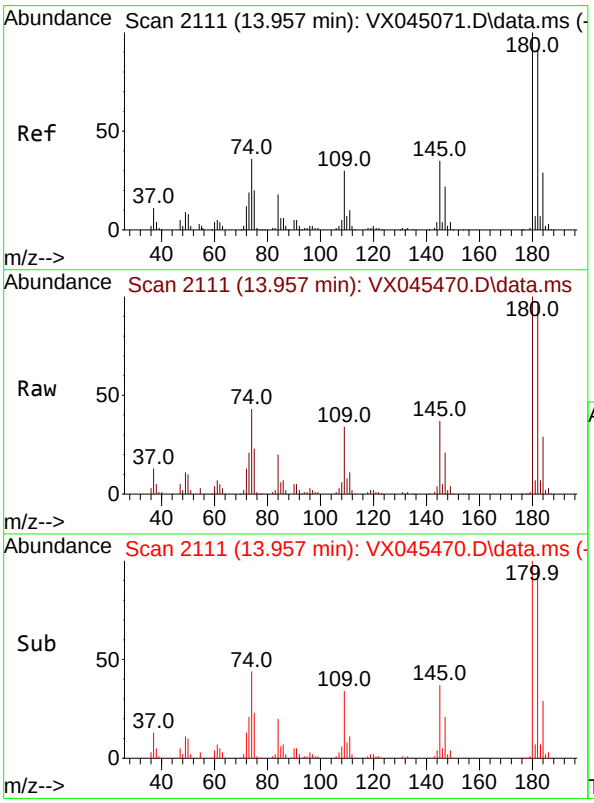
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

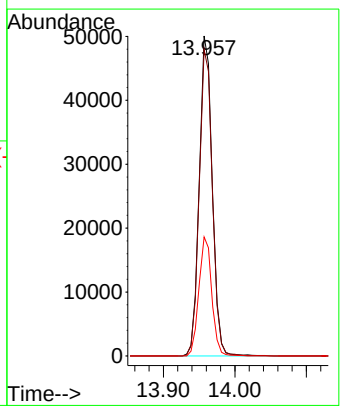
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 55.317 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:180 Resp: 63287

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.6
145	36.8	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	82	0.00
2	T	Dichlorodifluoromethane	0.629	0.846	-34.5#	110	0.00
3	P	Chloromethane	0.770	0.790	-2.6	86	0.00
4	C	Vinyl Chloride	0.764	0.765	-0.1#	82	0.00
5	T	Bromomethane	0.300	0.359	-19.7	100	0.00
6	T	Chloroethane	0.352	0.417	-18.5	92	0.00
7	T	Trichlorofluoromethane	1.011	1.170	-15.7	91	0.00
8	T	Diethyl Ether	0.396	0.384	3.0	81	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.755	-29.9#	104	0.00
10	T	Methyl Iodide	0.726	0.856	-17.9	91	0.00
11	T	Tert butyl alcohol	0.151	0.123	18.5	75	-0.01
12	CM	1,1-Dichloroethene	0.614	0.697	-13.5#	91	0.00
13	T	Acrolein	0.174	0.196	-12.6	92	0.00
14	T	Allyl chloride	1.094	1.289	-17.8	95	0.00
15	T	Acrylonitrile	0.404	0.428	-5.9	85	0.00
16	T	Acetone	0.369	0.438	-18.7	102	0.00
17	T	Carbon Disulfide	1.636	1.741	-6.4	86	0.00
18	T	Methyl Acetate	0.888	0.898	-1.1	85	0.00
19	T	Methyl tert-butyl Ether	2.061	2.308	-12.0	91	0.00
20	T	Methylene Chloride	0.731	0.780	-6.7	91	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.694	-14.3	90	0.00
22	T	Diisopropyl ether	2.224	2.510	-12.9	89	0.00
23	T	Vinyl Acetate	1.856	2.275	-22.6	94	0.00
24	P	1,1-Dichloroethane	1.247	1.395	-11.9	92	0.00
25	T	2-Butanone	0.555	0.621	-11.9	88	-0.01
26	T	2,2-Dichloropropane	0.585	1.036	-77.1#	142	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.830	-10.8	89	0.00
28	T	Bromochloromethane	0.594	0.601	-1.2	81	-0.01
29	T	Tetrahydrofuran	0.373	0.384	-2.9	84	-0.01
30	C	Chloroform	1.239	1.418	-14.4#	93	0.00
31	T	Cyclohexane	1.082	1.261	-16.5	93	0.00
32	T	1,1,1-Trichloroethane	1.000	1.213	-21.3	97	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.782	1.6	84	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	78	0.00
35	S	Dibromofluoromethane	0.334	0.335	-0.3	79	0.00
36	T	1,1-Dichloropropene	0.459	0.559	-21.8	93	0.00
37	T	Ethyl Acetate	0.591	0.683	-15.6	87	0.00
38	T	Carbon Tetrachloride	0.465	0.601	-29.2#	100	0.00
39	T	Methylcyclohexane	0.549	0.736	-34.1#	98	0.00
40	TM	Benzene	1.448	1.694	-17.0	88	0.00
41	T	Methacrylonitrile	0.319	0.384	-20.4	88	-0.01
42	TM	1,2-Dichloroethane	0.521	0.678	-30.1#	100	0.00
43	T	Isopropyl Acetate	0.874	1.071	-22.5	89	-0.01
44	TM	Trichloroethene	0.340	0.392	-15.3	89	0.00
45	C	1,2-Dichloropropane	0.372	0.431	-15.9#	90	0.00
46	T	Dibromomethane	0.263	0.320	-21.7	92	0.00
47	T	Bromodichloromethane	0.516	0.638	-23.6	94	0.00
48	T	Methyl methacrylate	0.438	0.549	-25.3#	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	71	0.00
50	S	Toluene-d8	1.212	1.120	7.6	72	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.694	-18.2	88	0.00
52	CM	Toluene	0.849	1.027	-21.0#	89	0.00
53	T	t-1,3-Dichloropropene	0.431	0.582	-35.0#	96	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.665	-32.2#	96	0.00
55	T	1,1,2-Trichloroethane	0.350	0.399	-14.0	87	0.00
56	T	Ethyl methacrylate	0.532	0.663	-24.6	90	0.00
57	T	1,3-Dichloropropane	0.605	0.708	-17.0	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.321	-23.9	88	0.00
59	T	2-Hexanone	0.425	0.510	-20.0	88	0.00
60	T	Dibromochloromethane	0.366	0.453	-23.8	91	0.00
61	T	1,2-Dibromoethane	0.349	0.413	-18.3	90	0.00
62	S	4-Bromofluorobenzene	0.402	0.415	-3.2	80	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00
64	T	Tetrachloroethene	0.320	0.397	-24.1	95	0.00
65	PM	Chlorobenzene	1.058	1.242	-17.4	89	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.420	-19.3	92	0.00
67	C	Ethyl Benzene	1.843	2.270	-23.2#	91	0.00
68	T	m/p-Xylenes	0.675	0.834	-23.6	90	0.00
69	T	o-Xylene	0.681	0.807	-18.5	89	0.00
70	T	Styrene	1.101	1.377	-25.1#	91	0.00
71	P	Bromoform	0.266	0.322	-21.1	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
73	T	Isopropylbenzene	3.903	4.772	-22.3	94	0.00
74	T	N-amyl acetate	1.831	2.239	-22.3	92	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.521	-6.2	87	0.00
76	T	1,2,3-Trichloropropane	1.164	1.325	-13.8	94	0.00
77	T	Bromobenzene	0.921	1.034	-12.3	89	0.00
78	T	n-propylbenzene	4.409	5.612	-27.3#	95	0.00
79	T	2-Chlorotoluene	2.808	3.296	-17.4	93	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.893	-23.4	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.406	-19.4	97	0.00
82	T	4-Chlorotoluene	3.060	3.785	-23.7	95	0.00
83	T	tert-Butylbenzene	3.242	3.850	-18.8	93	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.878	-22.1	93	0.00
85	T	sec-Butylbenzene	3.884	4.879	-25.6#	94	0.00
86	T	p-Isopropyltoluene	3.139	3.987	-27.0#	94	0.00
87	T	1,3-Dichlorobenzene	1.643	1.873	-14.0	91	0.00
88	T	1,4-Dichlorobenzene	1.662	1.881	-13.2	90	0.00
89	T	n-Butylbenzene	2.703	3.612	-33.6#	97	0.00
90	T	Hexachloroethane	0.568	0.689	-21.3	92	0.00
91	T	1,2-Dichlorobenzene	1.648	1.816	-10.2	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.329	-17.9	92	0.00
93	T	1,2,4-Trichlorobenzene	0.938	1.092	-16.4	88	0.00
94	T	Hexachlorobutadiene	0.385	0.468	-21.6	97	0.00
95	T	Naphthalene	3.605	3.956	-9.7	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.095	-10.6	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	82	0.00
2	T	Dichlorodifluoromethane	50.000	67.203	-34.4#	110	0.00
3	P	Chloromethane	50.000	51.295	-2.6	86	0.00
4	C	Vinyl Chloride	50.000	50.085	-0.2#	82	0.00
5	T	Bromomethane	50.000	59.795	-19.6	100	0.00
6	T	Chloroethane	50.000	59.207	-18.4	92	0.00
7	T	Trichlorofluoromethane	50.000	57.834	-15.7	91	0.00
8	T	Diethyl Ether	50.000	48.523	3.0	81	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	64.996	-30.0#	104	0.00
10	T	Methyl Iodide	50.000	58.957	-17.9	91	0.00
11	T	Tert butyl alcohol	250.000	204.206	18.3	75	-0.01
12	CM	1,1-Dichloroethene	50.000	56.703	-13.4#	91	0.00
13	T	Acrolein	250.000	280.996	-12.4	92	0.00
14	T	Allyl chloride	50.000	58.910	-17.8	95	0.00
15	T	Acrylonitrile	250.000	264.982	-6.0	85	0.00
16	T	Acetone	250.000	296.871	-18.7	102	0.00
17	T	Carbon Disulfide	50.000	53.198	-6.4	86	0.00
18	T	Methyl Acetate	50.000	50.607	-1.2	85	0.00
19	T	Methyl tert-butyl Ether	50.000	55.989	-12.0	91	0.00
20	T	Methylene Chloride	50.000	53.346	-6.7	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	57.147	-14.3	90	0.00
22	T	Diisopropyl ether	50.000	56.422	-12.8	89	0.00
23	T	Vinyl Acetate	250.000	306.481	-22.6	94	0.00
24	P	1,1-Dichloroethane	50.000	55.973	-11.9	92	0.00
25	T	2-Butanone	250.000	279.291	-11.7	88	-0.01
26	T	2,2-Dichloropropane	50.000	88.603	-77.2#	142	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.363	-10.7	89	0.00
28	T	Bromochloromethane	50.000	50.597	-1.2	81	-0.01
29	T	Tetrahydrofuran	250.000	257.649	-3.1	84	-0.01
30	C	Chloroform	50.000	57.224	-14.4#	93	0.00
31	T	Cyclohexane	50.000	58.253	-16.5	93	0.00
32	T	1,1,1-Trichloroethane	50.000	60.650	-21.3	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.135	1.7	84	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	78	0.00
35	S	Dibromofluoromethane	50.000	50.029	-0.1	79	0.00
36	T	1,1-Dichloropropene	50.000	60.949	-21.9	93	0.00
37	T	Ethyl Acetate	50.000	57.775	-15.5	87	0.00
38	T	Carbon Tetrachloride	50.000	64.575	-29.2#	100	0.00
39	T	Methylcyclohexane	50.000	67.014	-34.0#	98	0.00
40	TM	Benzene	50.000	58.506	-17.0	88	0.00
41	T	Methacrylonitrile	50.000	60.156	-20.3	88	-0.01
42	TM	1,2-Dichloroethane	50.000	65.005	-30.0#	100	0.00
43	T	Isopropyl Acetate	50.000	61.276	-22.6	89	-0.01
44	TM	Trichloroethene	50.000	57.714	-15.4	89	0.00
45	C	1,2-Dichloropropane	50.000	57.950	-15.9#	90	0.00
46	T	Dibromomethane	50.000	60.735	-21.5	92	0.00
47	T	Bromodichloromethane	50.000	61.857	-23.7	94	0.00
48	T	Methyl methacrylate	50.000	62.623	-25.2#	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	929.442	7.1	71	0.00
50	S	Toluene-d8	50.000	46.211	7.6	72	0.00
51	T	4-Methyl-2-Pentanone	250.000	295.634	-18.3	88	0.00
52	CM	Toluene	50.000	60.468	-20.9#	89	0.00
53	T	t-1,3-Dichloropropene	50.000	67.431	-34.9#	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	66.080	-32.2#	96	0.00
55	T	1,1,2-Trichloroethane	50.000	57.001	-14.0	87	0.00
56	T	Ethyl methacrylate	50.000	62.321	-24.6	90	0.00
57	T	1,3-Dichloropropane	50.000	58.517	-17.0	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	309.665	-23.9	88	0.00
59	T	2-Hexanone	250.000	300.058	-20.0	88	0.00
60	T	Dibromochloromethane	50.000	61.881	-23.8	91	0.00
61	T	1,2-Dibromoethane	50.000	59.203	-18.4	90	0.00
62	S	4-Bromofluorobenzene	50.000	51.714	-3.4	80	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	78	0.00
64	T	Tetrachloroethene	50.000	61.975	-24.0	95	0.00
65	PM	Chlorobenzene	50.000	58.675	-17.3	89	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	59.666	-19.3	92	0.00
67	C	Ethyl Benzene	50.000	61.556	-23.1#	91	0.00
68	T	m/p-Xylenes	100.000	123.563	-23.6	90	0.00
69	T	o-Xylene	50.000	59.282	-18.6	89	0.00
70	T	Styrene	50.000	62.523	-25.0#	91	0.00
71	P	Bromoform	50.000	60.576	-21.2	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	81	0.00
73	T	Isopropylbenzene	50.000	61.143	-22.3	94	0.00
74	T	N-amyl acetate	50.000	61.124	-22.2	92	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.116	-6.2	87	0.00
76	T	1,2,3-Trichloropropane	50.000	56.934	-13.9	94	0.00
77	T	Bromobenzene	50.000	56.145	-12.3	89	0.00
78	T	n-propylbenzene	50.000	63.648	-27.3#	95	0.00
79	T	2-Chlorotoluene	50.000	58.698	-17.4	93	0.00
80	T	1,3,5-Trimethylbenzene	50.000	61.682	-23.4	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	59.684	-19.4	97	0.00
82	T	4-Chlorotoluene	50.000	61.848	-23.7	95	0.00
83	T	tert-Butylbenzene	50.000	59.370	-18.7	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	61.068	-22.1	93	0.00
85	T	sec-Butylbenzene	50.000	62.814	-25.6#	94	0.00
86	T	p-Isopropyltoluene	50.000	63.515	-27.0#	94	0.00
87	T	1,3-Dichlorobenzene	50.000	57.014	-14.0	91	0.00
88	T	1,4-Dichlorobenzene	50.000	56.594	-13.2	90	0.00
89	T	n-Butylbenzene	50.000	66.812	-33.6#	97	0.00
90	T	Hexachloroethane	50.000	60.711	-21.4	92	0.00
91	T	1,2-Dichlorobenzene	50.000	55.113	-10.2	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	59.027	-18.1	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	58.168	-16.3	88	0.00
94	T	Hexachlorobutadiene	50.000	60.796	-21.6	97	0.00
95	T	Naphthalene	50.000	54.873	-9.7	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	55.317	-10.6	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

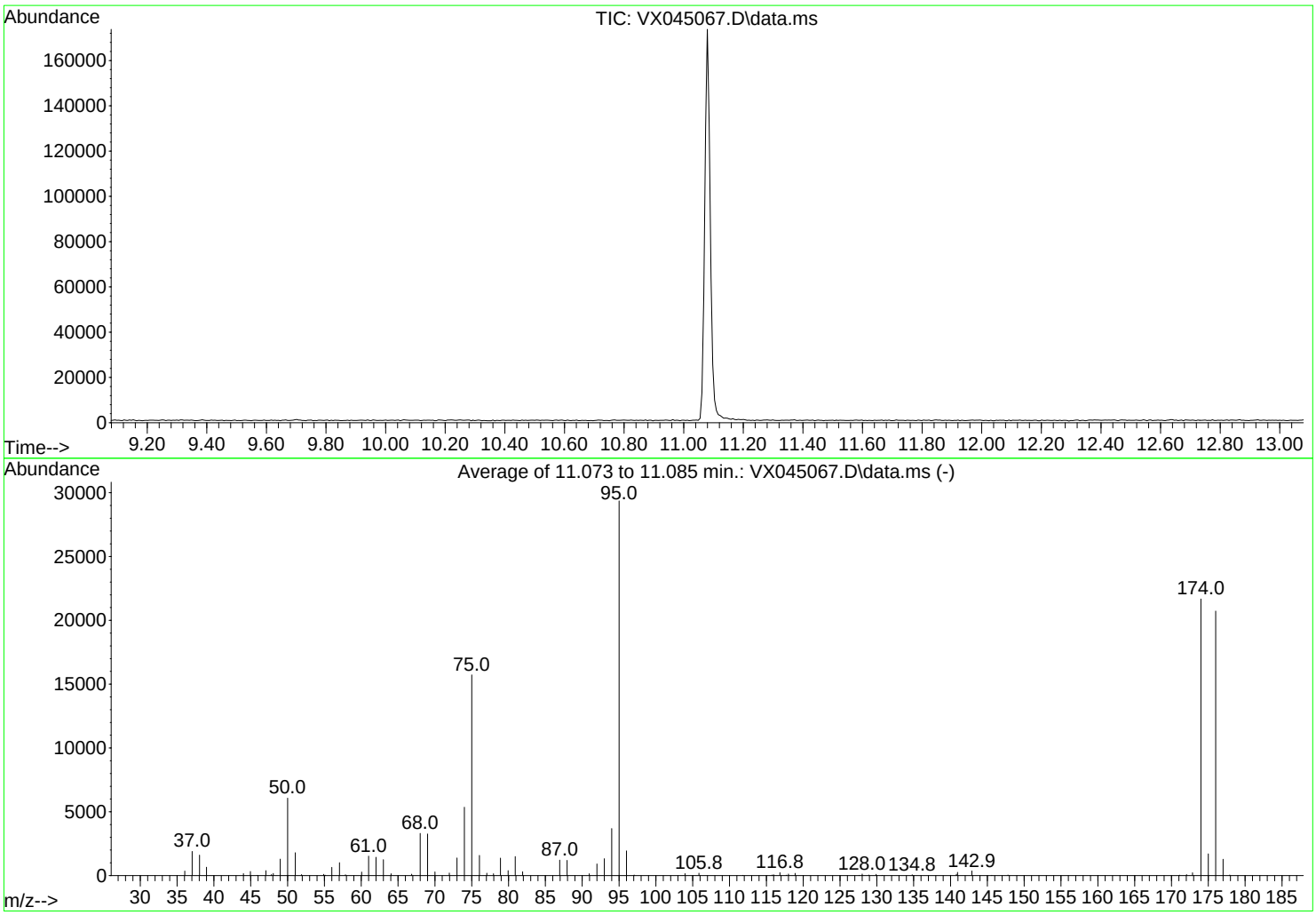
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045067.D
Acq On : 28 Feb 2025 01:03
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

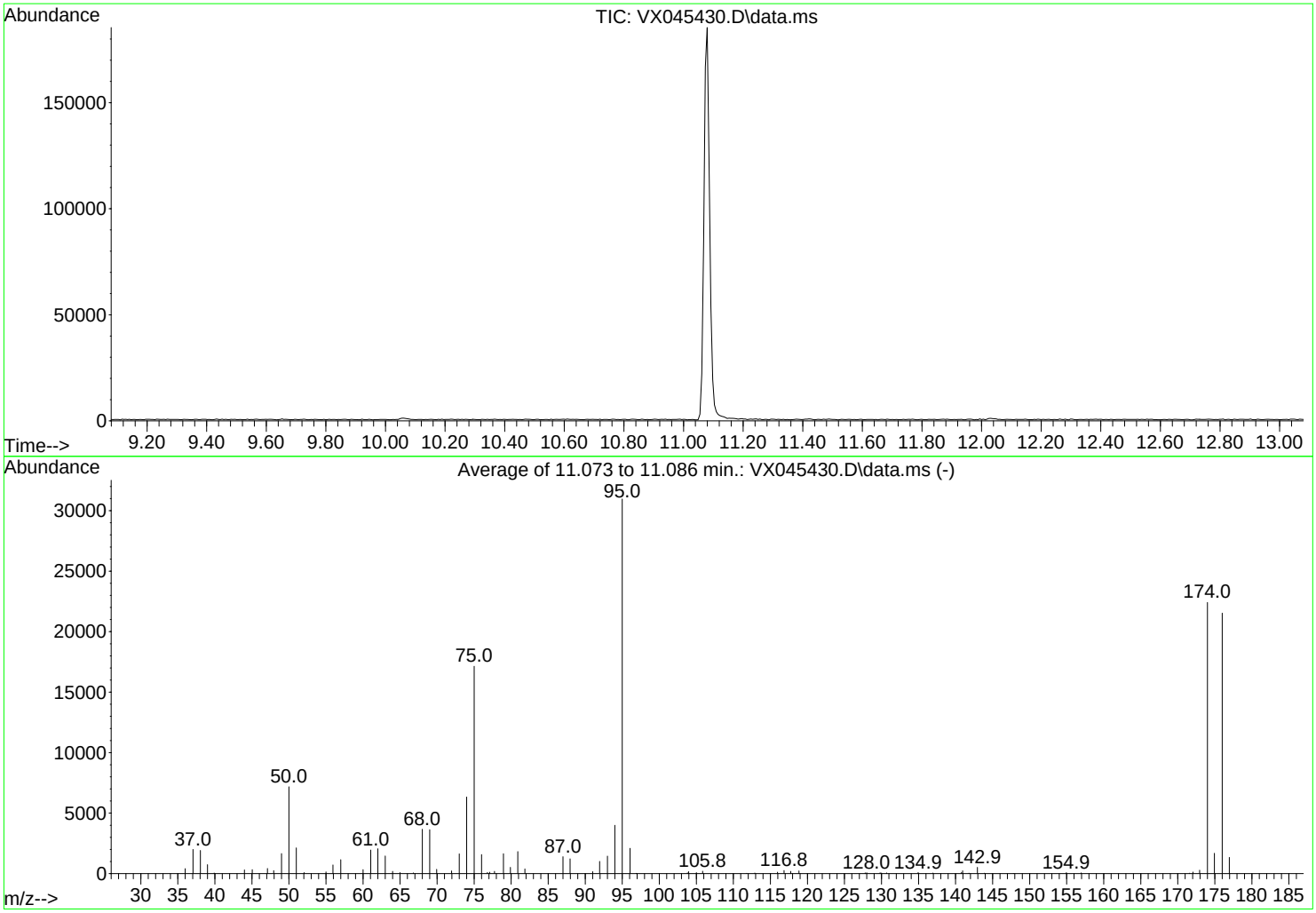
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	6072	PASS
75	95	30	60	53.6	15726	PASS
95	95	100	100	100.0	29360	PASS
96	95	5	9	6.6	1942	PASS
173	174	0.00	2	1.0	219	PASS
174	95	50	100	73.8	21677	PASS
175	174	5	9	7.9	1702	PASS
176	174	95	101	95.6	20723	PASS
177	176	5	9	6.2	1277	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045430.D
Acq On : 25 Mar 2025 09:37
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

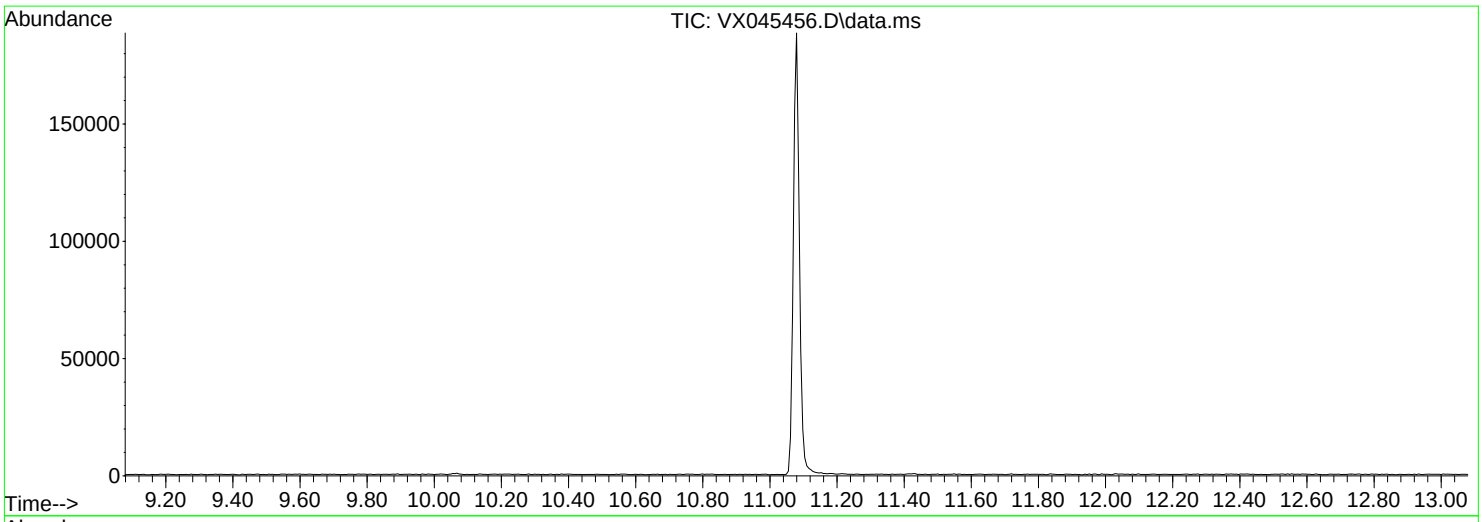
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	7179	PASS
75	95	30	60	55.4	17141	PASS
95	95	100	100	100.0	30968	PASS
96	95	5	9	6.8	2095	PASS
173	174	0.00	2	1.2	277	PASS
174	95	50	100	72.4	22416	PASS
175	174	5	9	7.5	1677	PASS
176	174	95	101	96.1	21536	PASS
177	176	5	9	6.2	1345	PASS

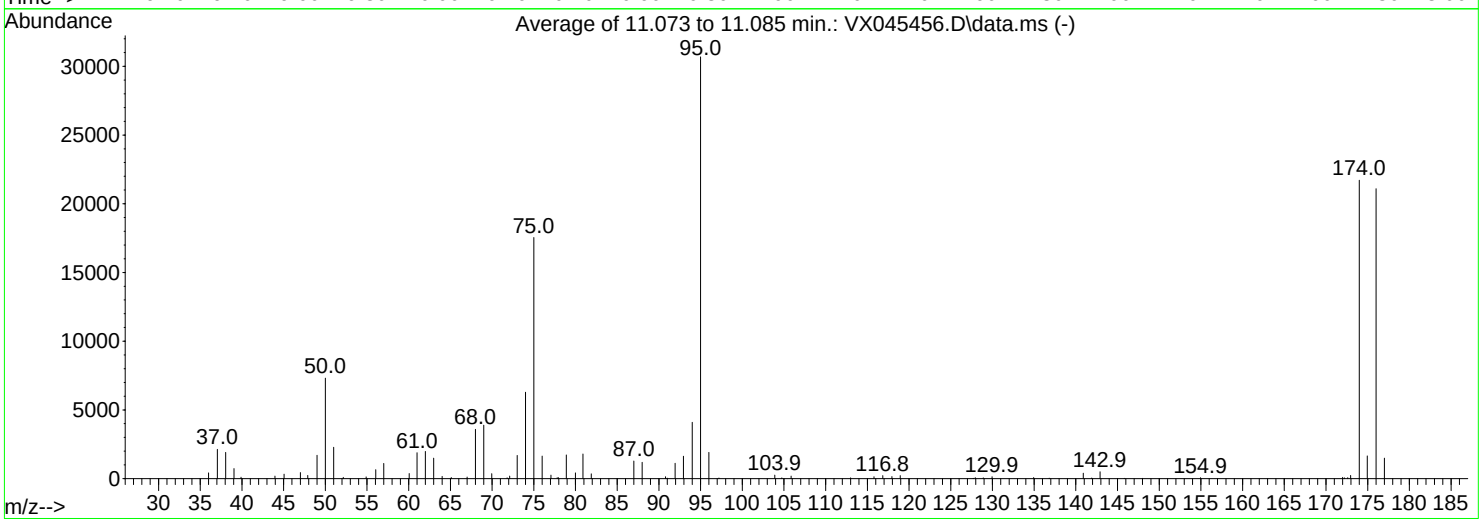
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045456.D
Acq On : 26 Mar 2025 09:33
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	7309	PASS
75	95	30	60	57.2	17544	PASS
95	95	100	100	100.0	30691	PASS
96	95	5	9	6.2	1914	PASS
173	174	0.00	2	1.1	238	PASS
174	95	50	100	70.8	21717	PASS
175	174	5	9	7.6	1657	PASS
176	174	95	101	97.1	21096	PASS
177	176	5	9	7.1	1494	PASS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0325WBL01	SDG No.:	Q1629
Lab Sample ID:	VX0325WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045433.D	1		03/25/25 12:22	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0325WBL01	SDG No.:	Q1629
Lab Sample ID:	VX0325WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045433.D	1		03/25/25 12:22	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.3		81 - 118		117%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.8		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	71200	5.55				
540-36-3	1,4-Difluorobenzene	137000	6.757				
3114-55-4	Chlorobenzene-d5	124000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	50700	12.024				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0325WBL01	SDG No.:	Q1629
Lab Sample ID:	VX0325WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045433.D	1		03/25/25 12:22	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045433.D
Acq On : 25 Mar 2025 12:22
Operator : JC/MD
Sample : VX0325WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBL01

Quant Time: Mar 26 01:35:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

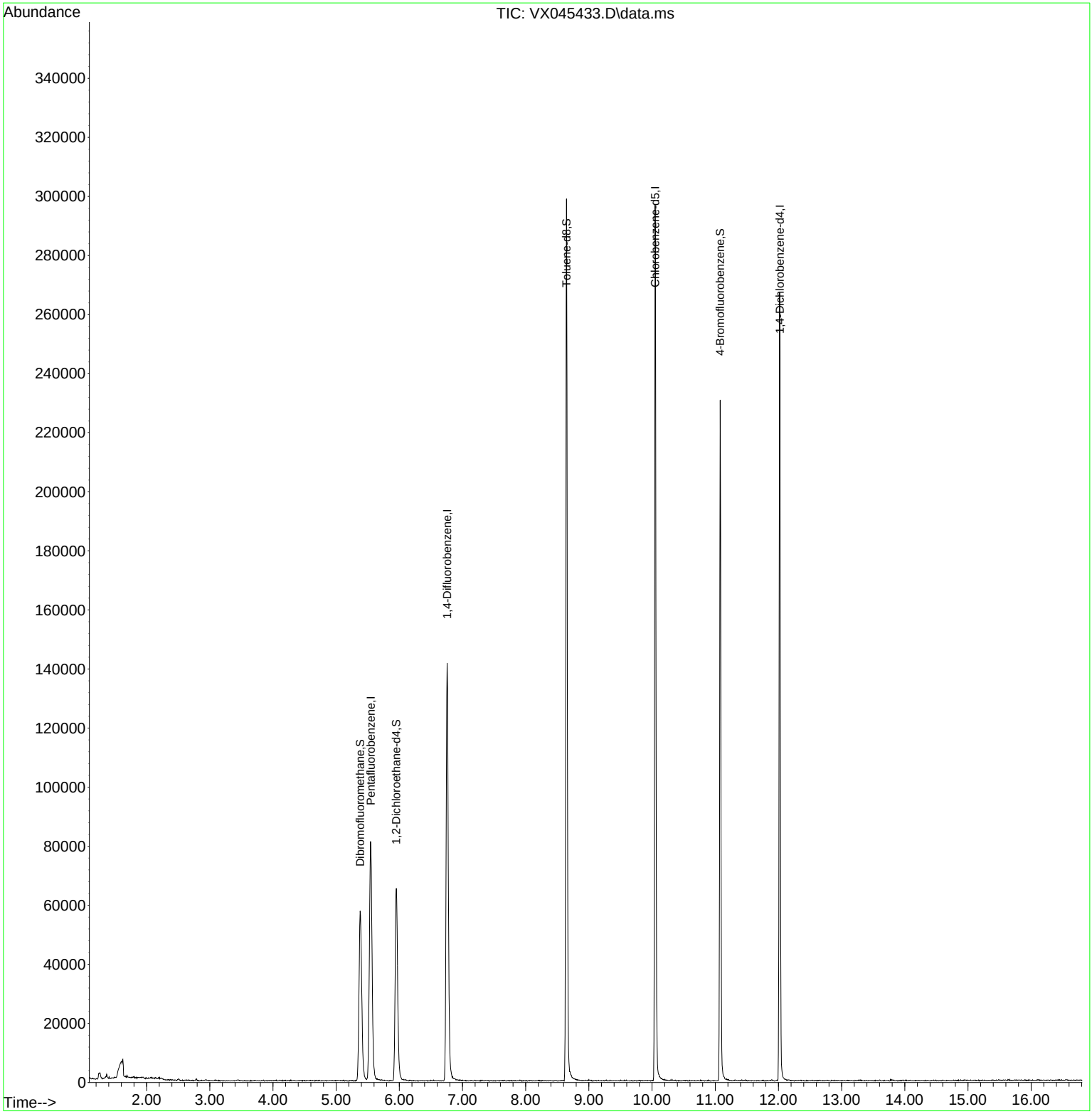
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	71237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	137150	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123936	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	50683	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66044	58.285	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.560%			
35) Dibromofluoromethane	5.379	113	49737	54.234	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.460%			
50) Toluene-d8	8.647	98	169680	51.035	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	11.079	95	60335	54.764	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.520%			
Target Compounds						Qvalue

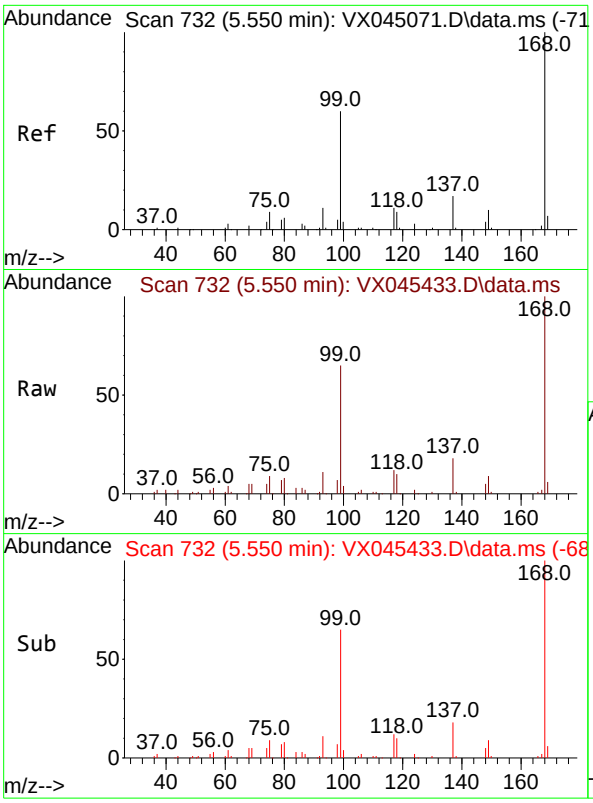
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045433.D
Acq On : 25 Mar 2025 12:22
Operator : JC/MD
Sample : VX0325WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBL01

Quant Time: Mar 26 01:35:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



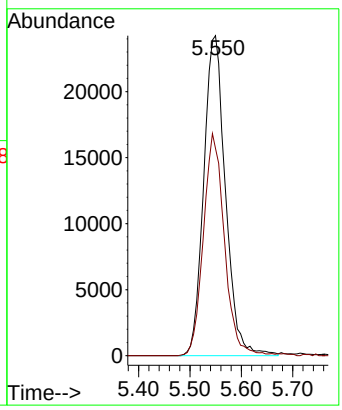


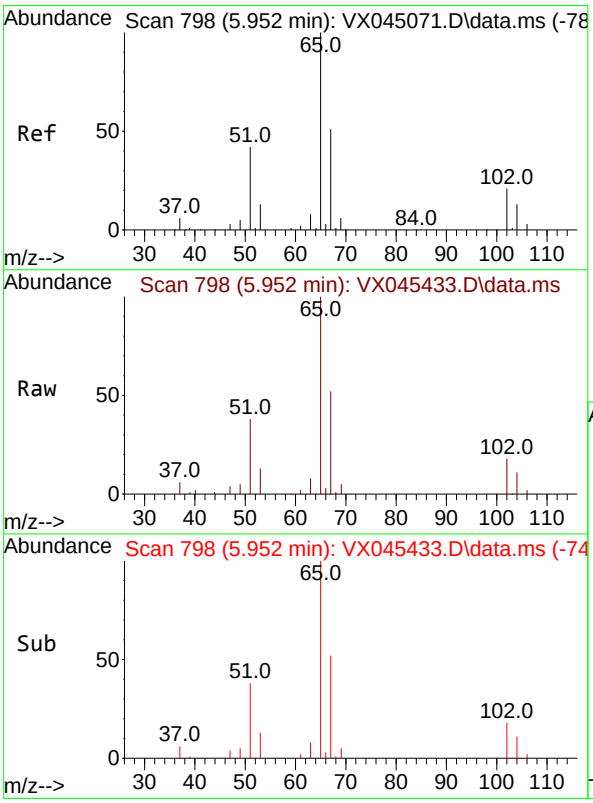
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBL01

Tgt Ion:168 Resp: 71237

Ion	Ratio	Lower	Upper
168	100		
99	64.8	48.2	72.4

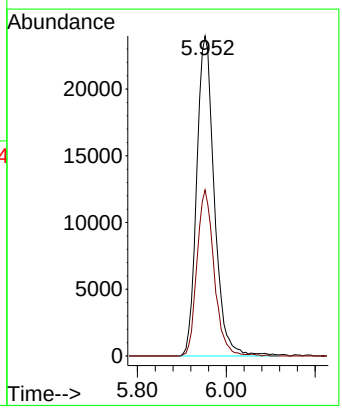


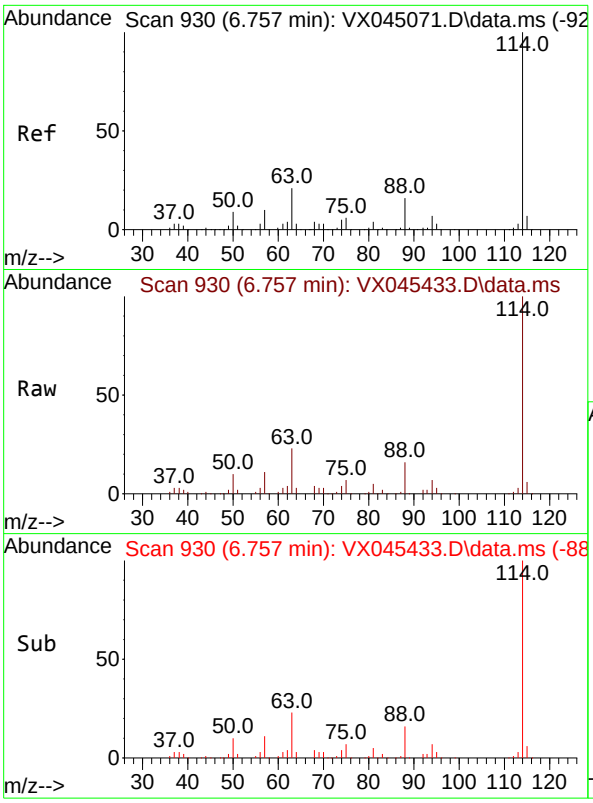


#33
1,2-Dichloroethane-d4
Concen: 58.285 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Tgt Ion: 65 Resp: 66044

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2



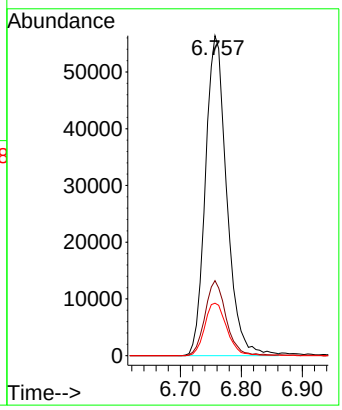


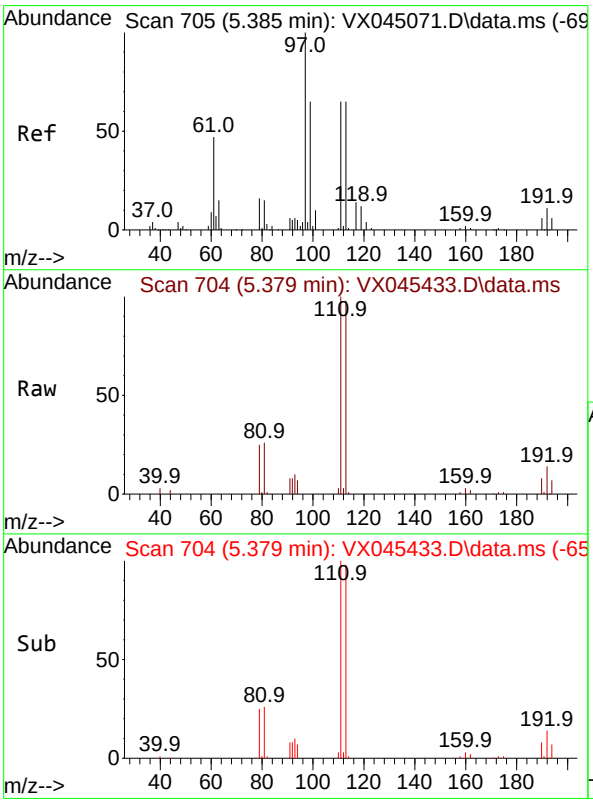
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBL01

Tgt Ion:114 Resp: 137150

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	41.8
88	16.4	0.0	32.8

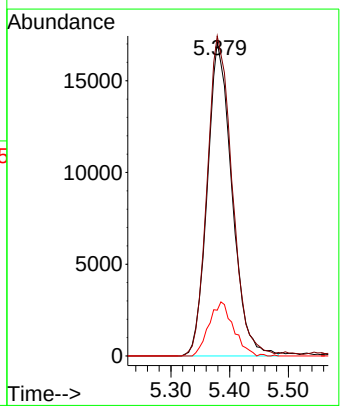


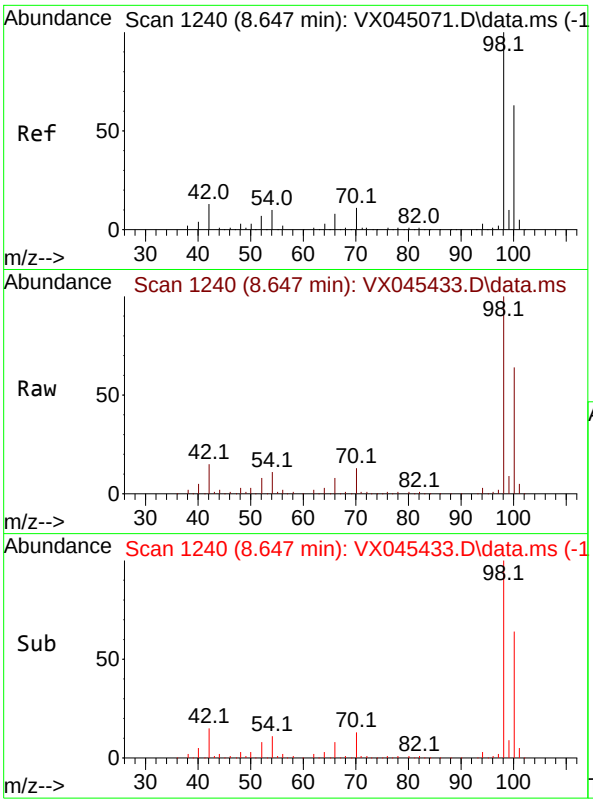


#35
Dibromofluoromethane
Concen: 54.234 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Tgt Ion:113 Resp: 49737

Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	17.2	14.3	21.5



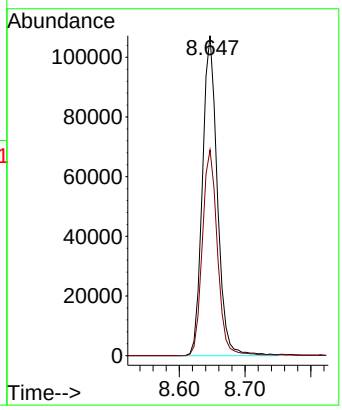


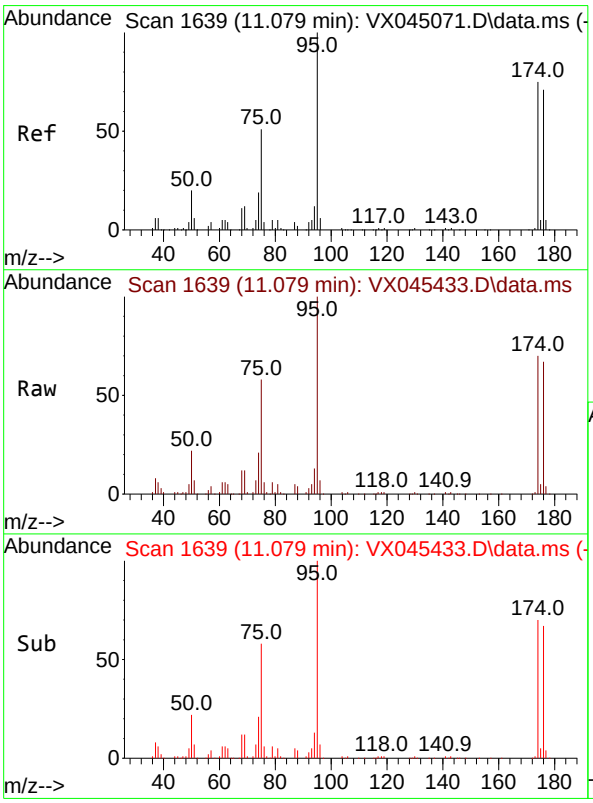
#50
Toluene-d8
Concen: 51.035 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBL01

Tgt Ion: 98 Resp: 169680

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0

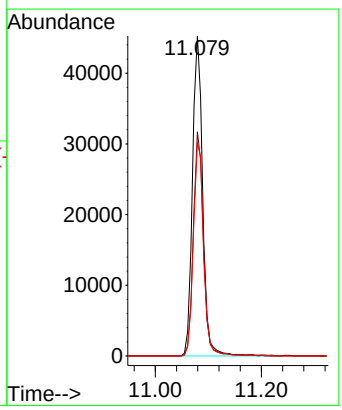


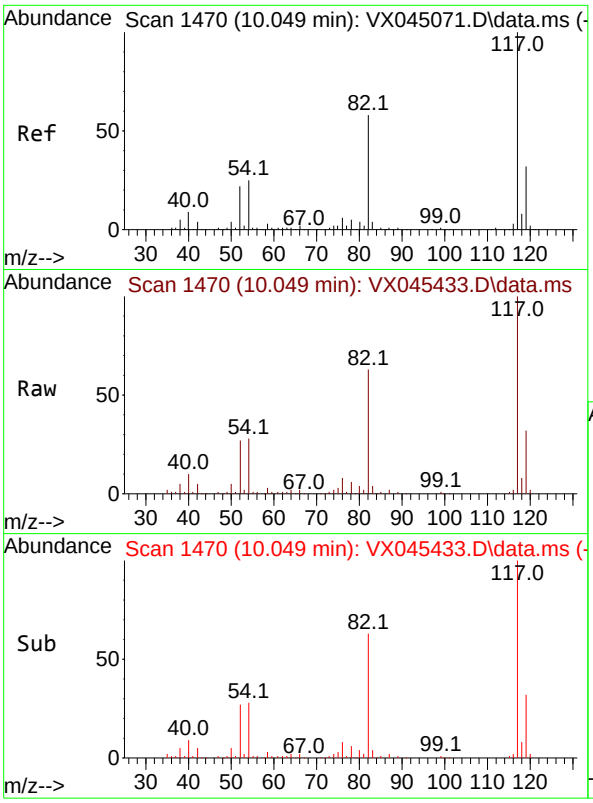


#62
4-Bromofluorobenzene
Concen: 54.764 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Tgt Ion: 95 Resp: 60335

Ion	Ratio	Lower	Upper
95	100		
174	69.3	0.0	148.2
176	66.4	0.0	141.4



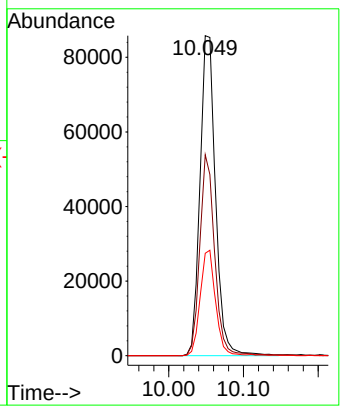


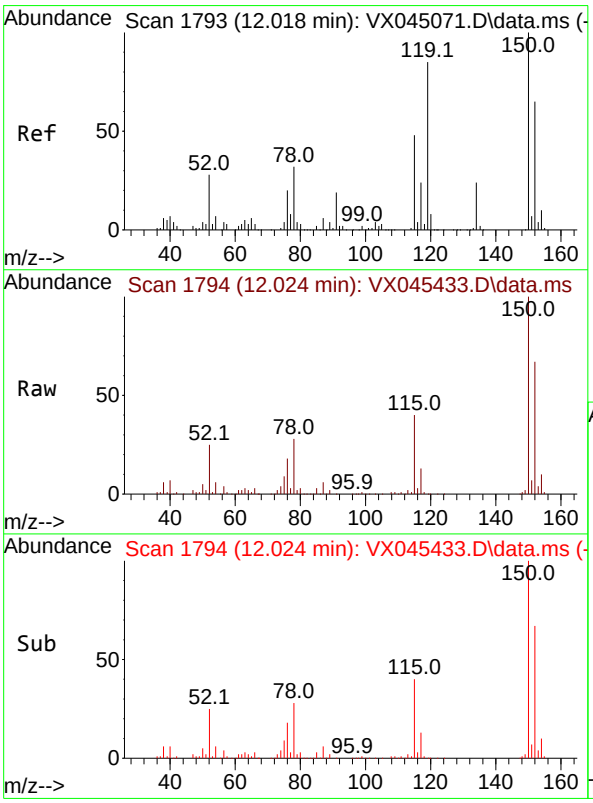
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBL01

Tgt Ion:117 Resp: 123936

Ion	Ratio	Lower	Upper
117	100		
82	62.8	46.3	69.5
119	32.0	25.7	38.5

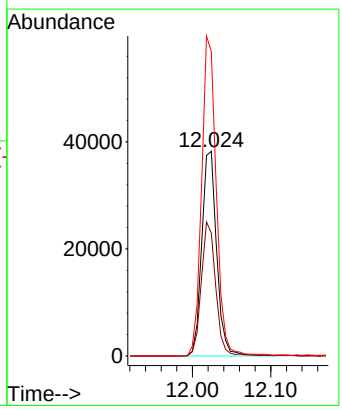




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045433.D
Acq: 25 Mar 2025 12:22

Tgt Ion:152 Resp: 50683

Ion	Ratio	Lower	Upper
152	100		
115	62.9	44.2	132.6
150	153.8	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0326WBL01	SDG No.:	Q1629
Lab Sample ID:	VX0326WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045459.D	1		03/26/25 10:54	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0326WBL01	SDG No.:	Q1629
Lab Sample ID:	VX0326WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045459.D	1		03/26/25 10:54	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	46.4		89 - 112		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65800	5.544				
540-36-3	1,4-Difluorobenzene	129000	6.757				
3114-55-4	Chlorobenzene-d5	116000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	47000	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0326WBL01	SDG No.:	Q1629
Lab Sample ID:	VX0326WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045459.D	1		03/26/25 10:54	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045459.D
Acq On : 26 Mar 2025 10:54
Operator : JC/MD
Sample : VX0326WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBL01

Quant Time: Mar 27 01:33:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

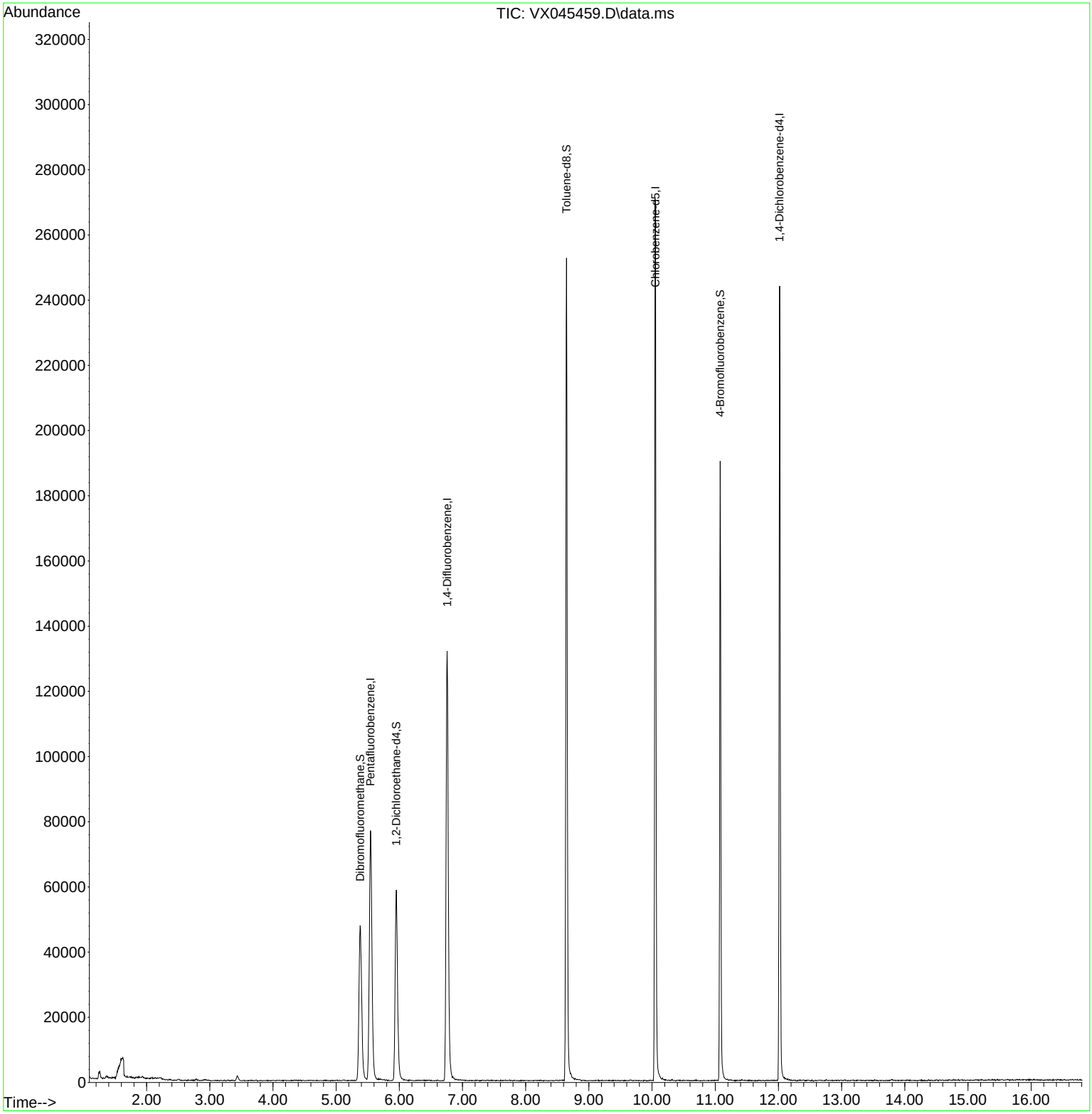
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	65792	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	128574	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	116243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	46967	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	55710	53.234	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.460%			
35) Dibromofluoromethane	5.379	113	41376	48.126	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.260%			
50) Toluene-d8	8.647	98	144611	46.396	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.800%			
62) 4-Bromofluorobenzene	11.079	95	48698	47.150	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.300%			
Target Compounds						Qvalue

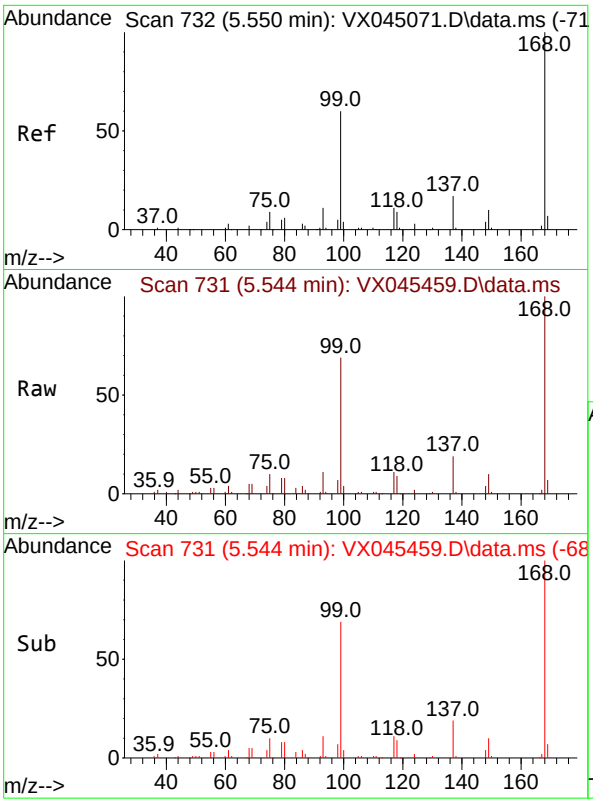
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045459.D
Acq On : 26 Mar 2025 10:54
Operator : JC/MD
Sample : VX0326WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBL01

Quant Time: Mar 27 01:33:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



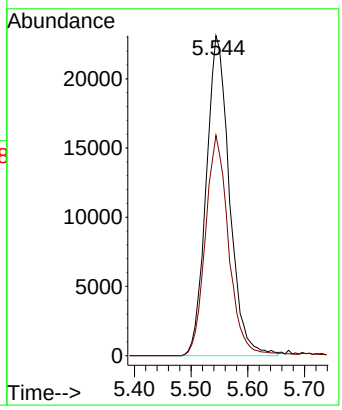


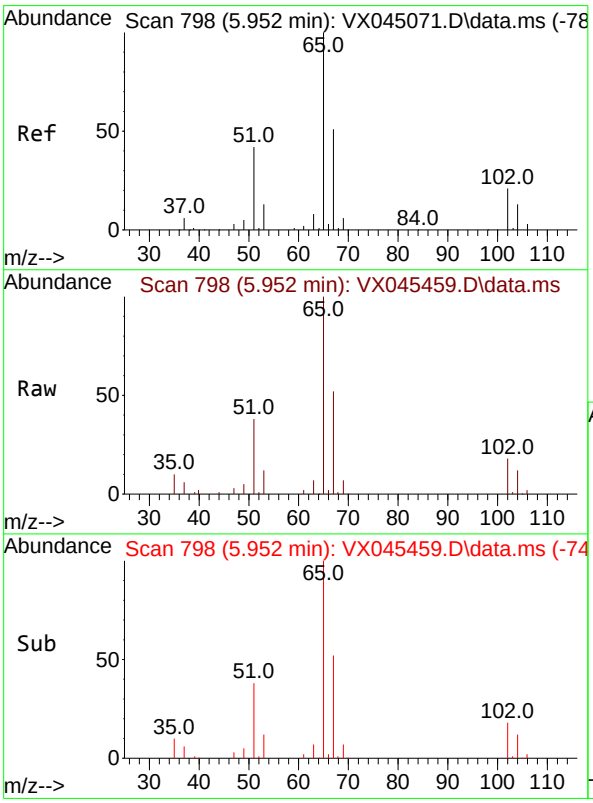
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBL01

Tgt Ion:168 Resp: 65792

Ion	Ratio	Lower	Upper
168	100		
99	68.9	48.2	72.4

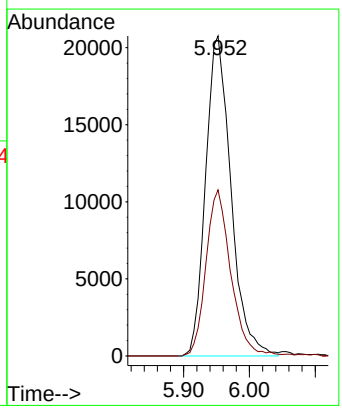


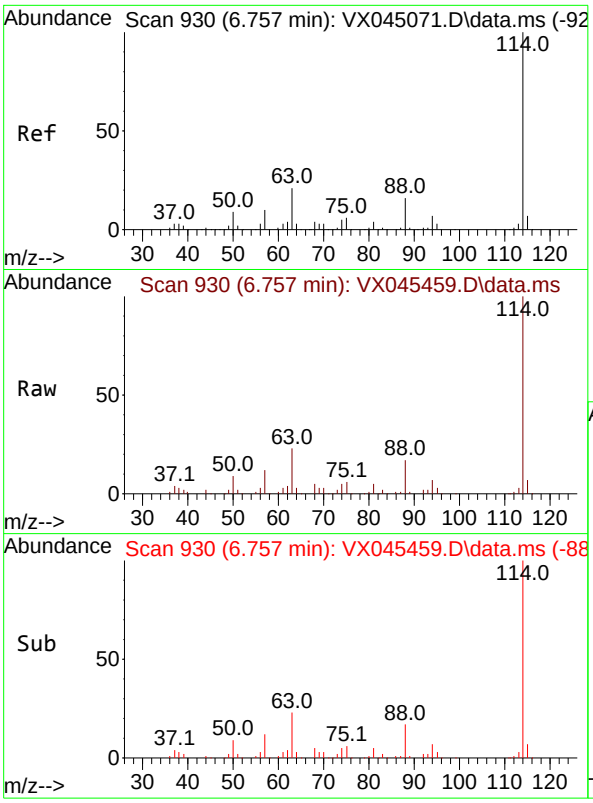


#33
1,2-Dichloroethane-d4
Concen: 53.234 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Tgt Ion: 65 Resp: 55710

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	106.2



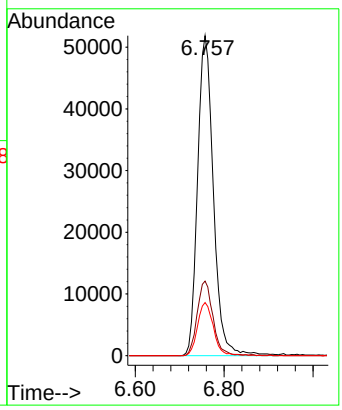


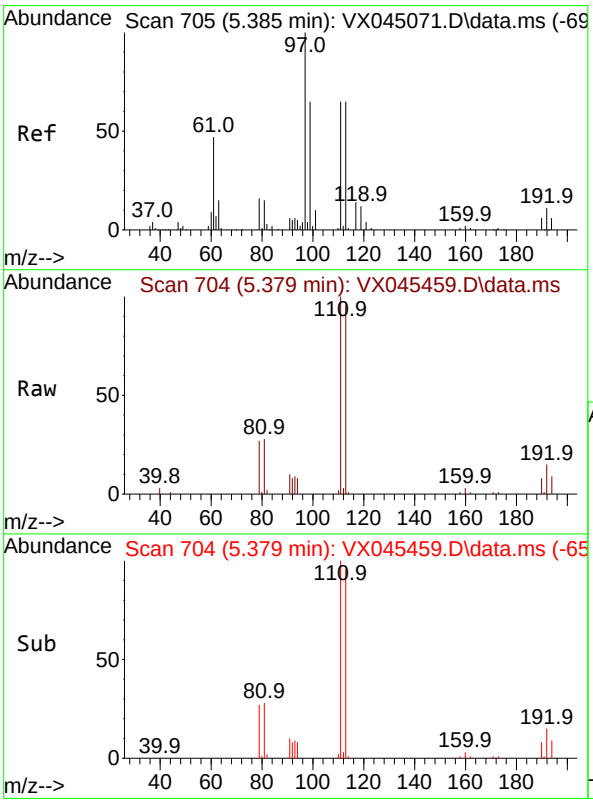
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBL01

Tgt Ion:114 Resp: 128574

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	41.8
88	16.6	0.0	32.8

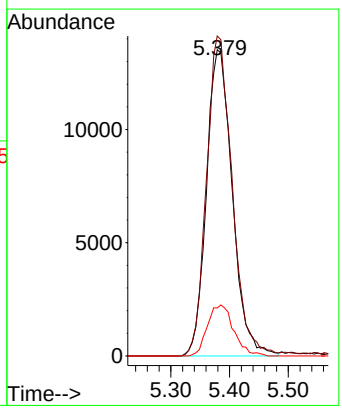


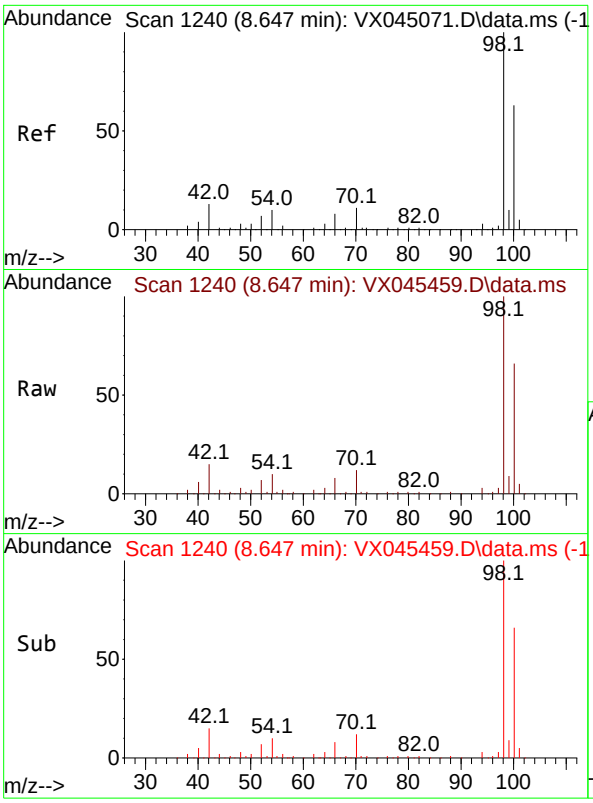


#35
Dibromofluoromethane
Concen: 48.126 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Tgt Ion:113 Resp: 41376

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.6
192	16.9	14.3	21.5



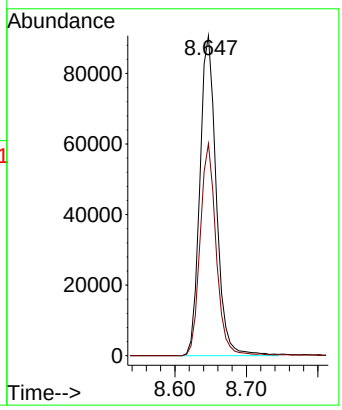


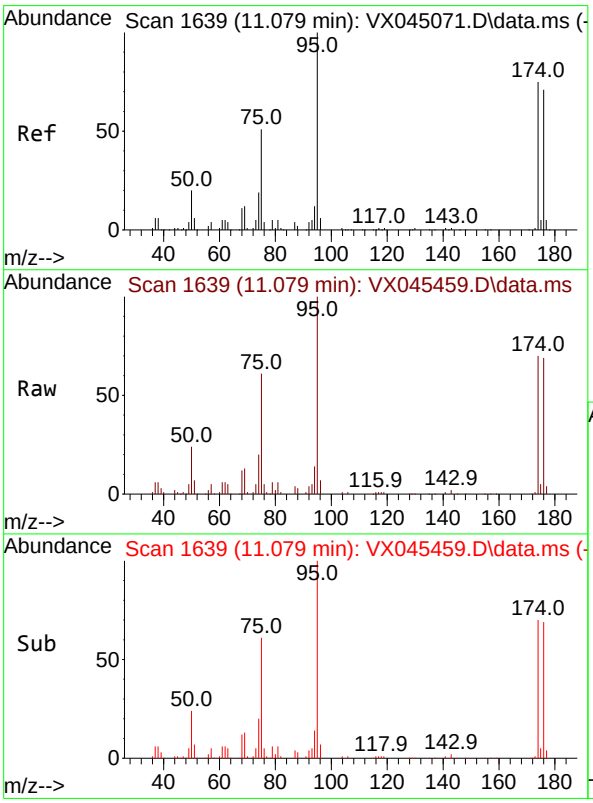
#50
Toluene-d8
Concen: 46.396 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBL01

Tgt Ion: 98 Resp: 144611

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.0	78.0

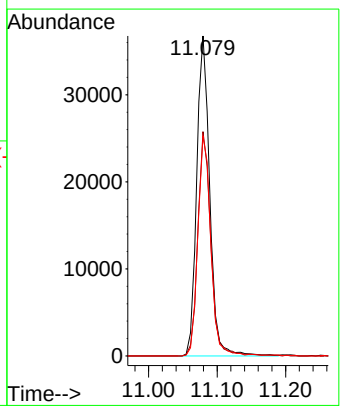


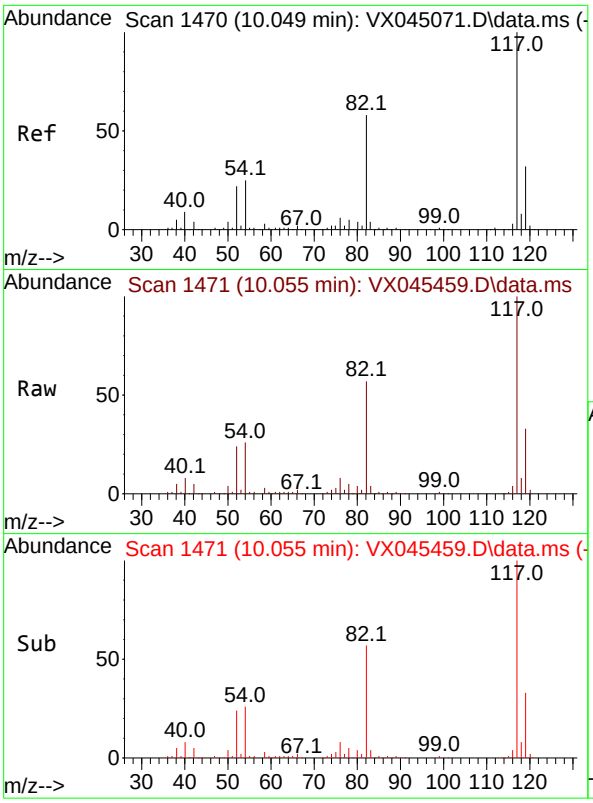


#62
4-Bromofluorobenzene
Concen: 47.150 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Tgt Ion: 95 Resp: 48698

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	148.2
176	68.6	0.0	141.4



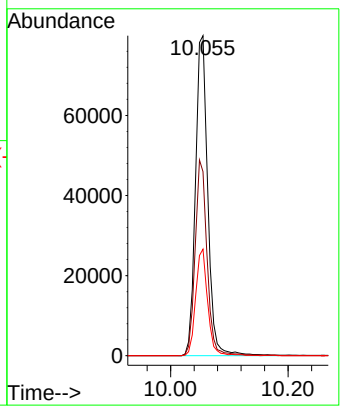


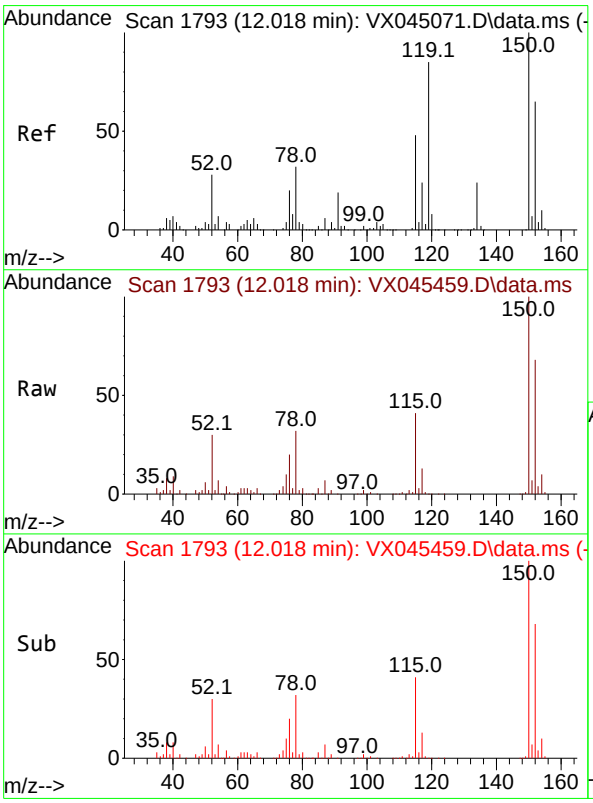
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBL01

Tgt Ion:117 Resp: 116243

Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.3	69.5
119	33.3	25.7	38.5

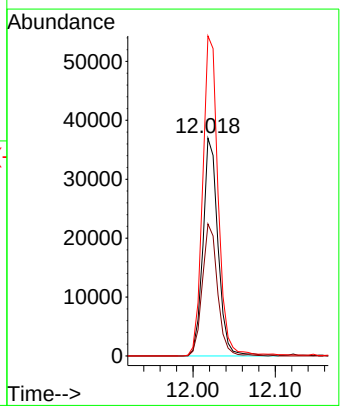




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045459.D
Acq: 26 Mar 2025 10:54

Tgt Ion:152 Resp: 46967

Ion	Ratio	Lower	Upper
152	100		
115	61.2	44.2	132.6
150	151.7	0.0	349.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0325WBS02	SDG No.:	Q1629
Lab Sample ID:	VX0325WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045436.D	1		03/25/25 13:35	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.5		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	16.0		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.0		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	19.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.7		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.0		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	22.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.6		0.23	0.75	1.00	ug/L
67-64-1	Acetone	110		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	14.0		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.5		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	29.4		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	20.2		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.1		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.5		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	19.7		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.8		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.8		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	24.3		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	22.3		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	22.3		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.5		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.5		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	23.9		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.5		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.1		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	22.7		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	21.4		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0325WBS02	SDG No.:	Q1629
Lab Sample ID:	VX0325WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045436.D	1		03/25/25 13:35	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	22.1		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	22.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	22.0		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.7		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.6		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	21.4		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	21.6		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	43.1		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	21.4		0.12	0.50	1.00	ug/L
100-42-5	Styrene	21.7		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	21.4		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	22.5		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.0		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.5		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.1		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	22.1		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.1		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.3		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.6		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	88300	5.544				
540-36-3	1,4-Difluorobenzene	159000	6.757				
3114-55-4	Chlorobenzene-d5	137000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	60900	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0325WBS02	SDG No.:	Q1629
Lab Sample ID:	VX0325WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045436.D	1		03/25/25 13:35	VX032525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	88260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	159282	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137098	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	79497	56.626	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.260%			
35) Dibromofluoromethane	5.379	113	56889	53.413	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.820%			
50) Toluene-d8	8.647	98	193748	50.177	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.360%			
62) 4-Bromofluorobenzene	11.079	95	69492	54.311	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21634	19.473	ug/l	93
3) Chloromethane	1.307	50	21765	16.008	ug/l	100
4) Vinyl Chloride	1.374	62	21512	15.950	ug/l	99
5) Bromomethane	1.593	94	10370	19.558	ug/l	98
6) Chloroethane	1.666	64	12272	19.726	ug/l	96
7) Trichlorofluoromethane	1.874	101	35730	20.011	ug/l	98
8) Diethyl Ether	2.130	74	12404	17.761	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	23226	22.642	ug/l	98
10) Methyl Iodide	2.447	142	25124	19.598	ug/l	92
11) Tert butyl alcohol	2.977	59	21298	80.091	ug/l	97
12) 1,1-Dichloroethene	2.313	96	21282	19.623	ug/l	99
13) Acrolein	2.233	56	41176	133.950	ug/l	99
14) Allyl chloride	2.660	41	40753	21.110	ug/l	93
15) Acrylonitrile	3.062	53	74109	103.983	ug/l	97
16) Acetone	2.386	43	71720	110.107	ug/l	99
17) Carbon Disulfide	2.502	76	40407	13.988	ug/l	96
18) Methyl Acetate	2.703	43	46032	29.376	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	78132	21.473	ug/l	99
20) Methylene Chloride	2.782	84	26113	20.238	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	21506	20.072	ug/l	93
22) Diisopropyl ether	3.757	45	83401	21.242	ug/l #	81
23) Vinyl Acetate	3.721	43	340859	104.034	ug/l	99
24) 1,1-Dichloroethane	3.605	63	47200	21.451	ug/l	100
25) 2-Butanone	4.556	43	107857	110.005	ug/l	94
26) 2,2-Dichloropropane	4.471	77	32630	31.616	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	27486	20.781	ug/l	92
28) Bromochloromethane	4.891	49	25516	24.329	ug/l	96
29) Tetrahydrofuran	5.001	42	67379	102.332	ug/l	98
30) Chloroform	5.087	83	48836	22.337	ug/l	100
31) Cyclohexane	5.464	56	37722	19.749	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	39374	22.298	ug/l	96
36) 1,1-Dichloropropene	5.684	75	30671	20.998	ug/l	99
37) Ethyl Acetate	4.715	43	36236	19.253	ug/l	99
38) Carbon Tetrachloride	5.672	117	32393	21.844	ug/l	97
39) Methylcyclohexane	7.379	83	35870	20.495	ug/l	98
40) Benzene	6.031	78	94569	20.503	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	22985	22.585	ug/l		97
42) 1,2-Dichloroethane	6.086	62	39733	23.922	ug/l		96
43) Isopropyl Acetate	6.342	43	58934	21.175	ug/l		99
44) Trichloroethene	7.123	130	22201	20.499	ug/l		96
45) 1,2-Dichloropropane	7.428	63	25053	21.126	ug/l		100
46) Dibromomethane	7.580	93	18482	22.050	ug/l		96
47) Bromodichloromethane	7.818	83	37305	22.690	ug/l		99
48) Methyl methacrylate	7.696	41	30493	21.839	ug/l		93
49) 1,4-Dioxane	7.659	88	11048	375.106	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	211951	113.420	ug/l		98
52) Toluene	8.714	92	57834	21.371	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	30348	22.080	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	35919	22.410	ug/l		93
55) 1,1,2-Trichloroethane	9.147	97	24798	22.259	ug/l		98
56) Ethyl methacrylate	9.116	69	37053	21.880	ug/l		93
57) 1,3-Dichloropropane	9.305	76	42139	21.857	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	81540	98.707	ug/l		99
59) 2-Hexanone	9.427	43	150538	111.183	ug/l		99
60) Dibromochloromethane	9.519	129	25647	22.017	ug/l		99
61) 1,2-Dibromoethane	9.604	107	24141	21.706	ug/l		99
64) Tetrachloroethene	9.269	164	18971	21.606	ug/l		97
65) Chlorobenzene	10.080	112	61991	21.369	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	21269	22.016	ug/l		98
67) Ethyl Benzene	10.189	91	109339	21.631	ug/l		96
68) m/p-Xylenes	10.299	106	79751	43.099	ug/l		93
69) o-Xylene	10.640	106	39921	21.391	ug/l		96
70) Styrene	10.653	104	65405	21.659	ug/l		98
71) Bromoform	10.799	173	15571	21.374	ug/l	#	99
73) Isopropylbenzene	10.964	105	107177	22.544	ug/l		98
74) N-amyl acetate	10.842	43	47397	21.246	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.207	83	37257	21.355	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	31303m	22.080	ug/l		
77) Bromobenzene	11.195	156	23991	21.388	ug/l		96
78) n-propylbenzene	11.299	91	120148	22.372	ug/l		98
79) 2-Chlorotoluene	11.360	91	74772	21.861	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	86843	22.591	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	8394	20.262	ug/l	#	80
82) 4-Chlorotoluene	11.451	91	83643	22.439	ug/l		99
83) tert-Butylbenzene	11.713	119	86114	21.802	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	85798	22.182	ug/l		100
85) sec-Butylbenzene	11.890	105	107683	22.760	ug/l		98
86) p-Isopropyltoluene	12.006	119	86148	22.531	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	41975	20.976	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	41462	20.480	ug/l		97
89) n-Butylbenzene	12.329	91	72708	22.079	ug/l		99
90) Hexachloroethane	12.536	117	14599	21.109	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	42440	21.142	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7496	22.055	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	22997	20.120	ug/l		99
94) Hexachlorobutadiene	13.719	225	10176	21.715	ug/l		98
95) Naphthalene	13.774	128	88346	20.117	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	24449	20.276	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

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

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

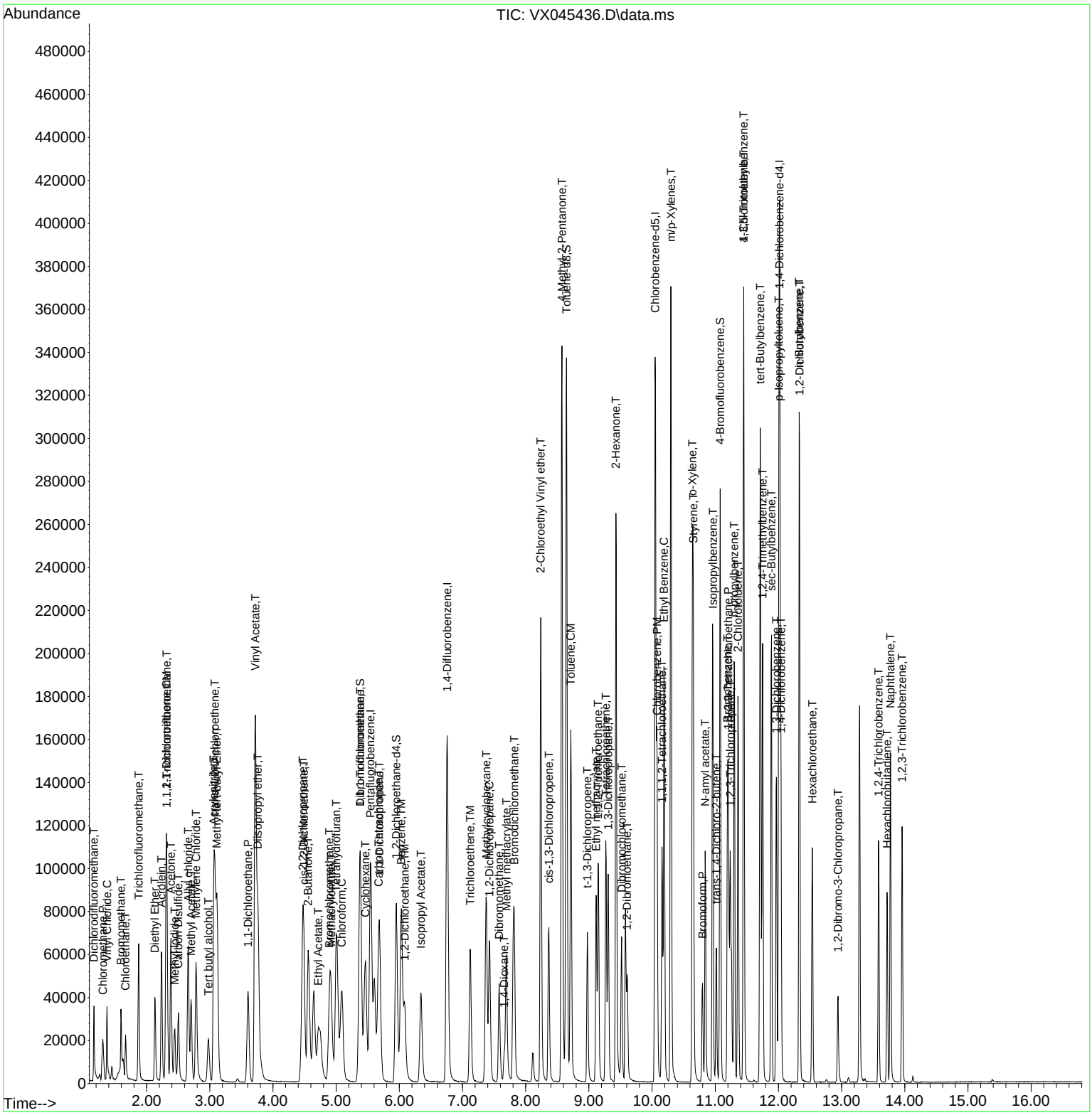
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

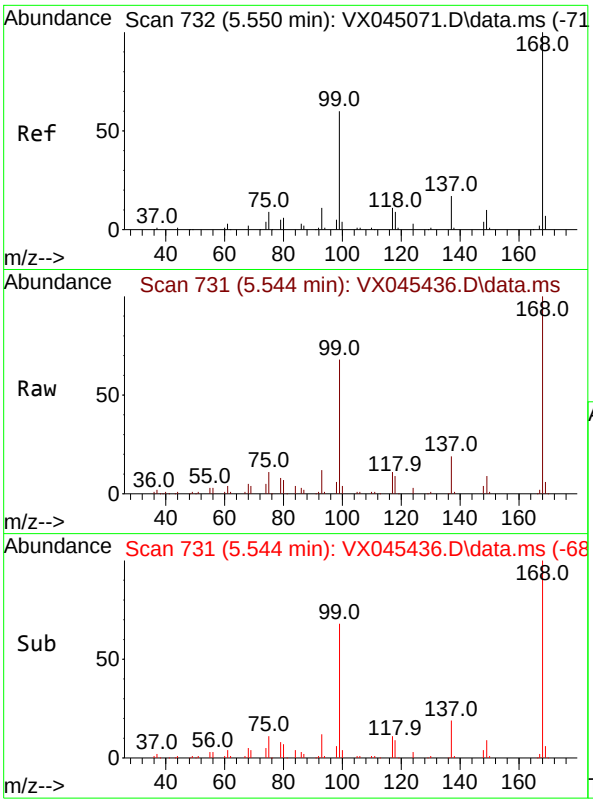
Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

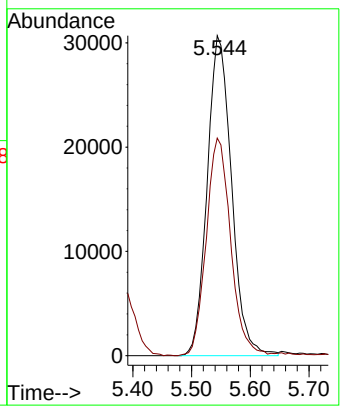




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:168 Resp: 8826

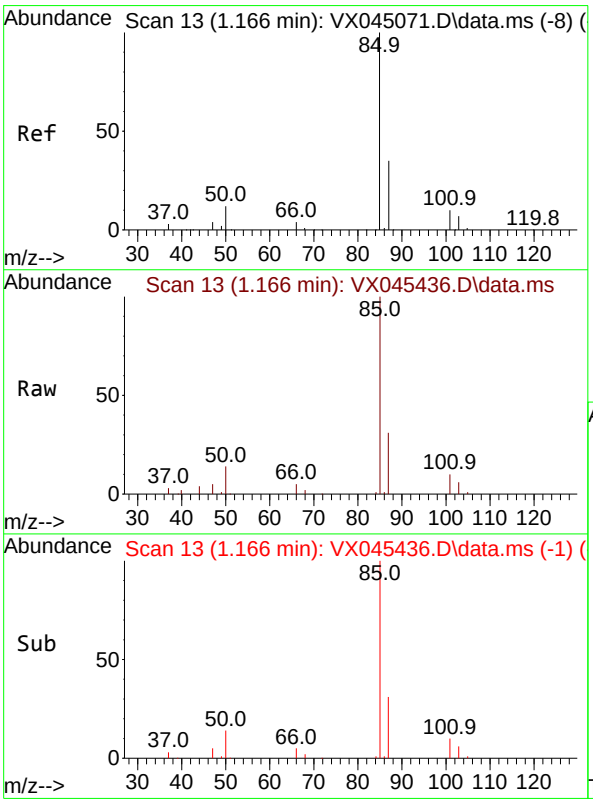
Ion	Ratio	Lower	Upper
168	100		
99	68.0	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

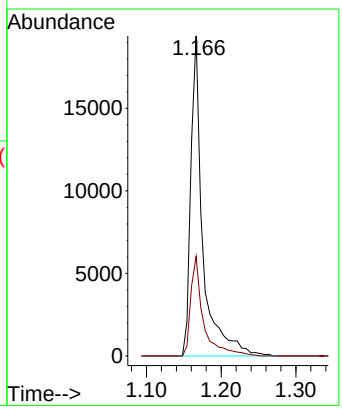
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

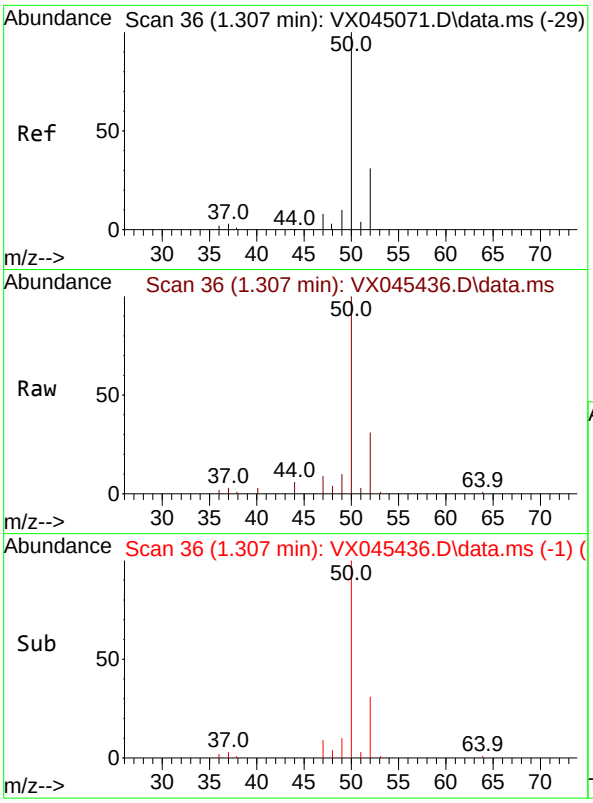


#2
Dichlorodifluoromethane
Concen: 19.473 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 85 Resp: 21634

Ion	Ratio	Lower	Upper
85	100		
87	31.1	17.4	52.3

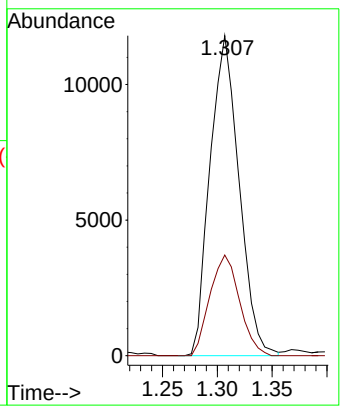




#3
Chloromethane
Concen: 16.008 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 50 Resp: 2176

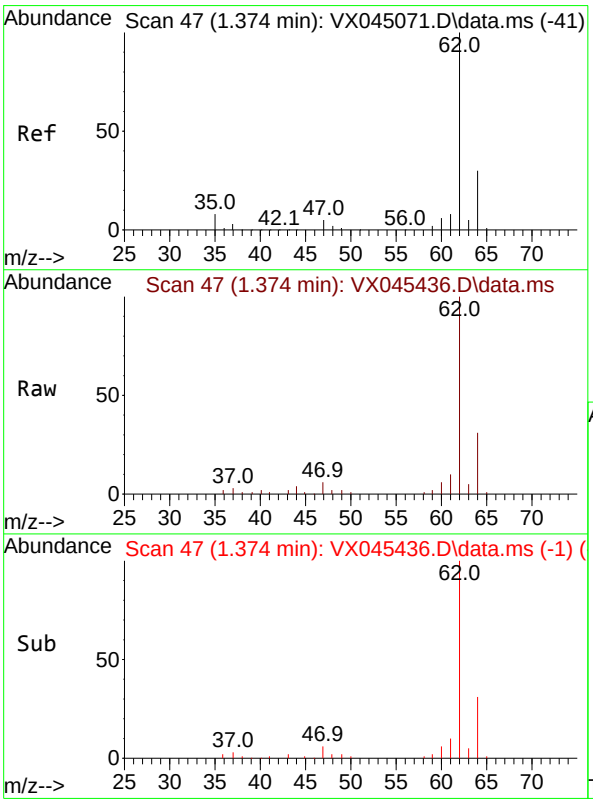
Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

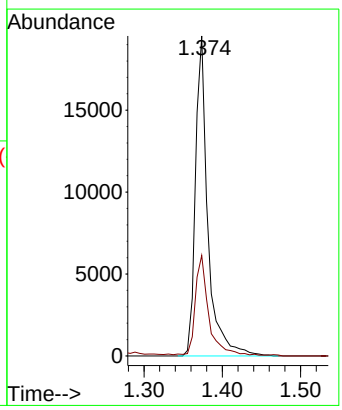
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

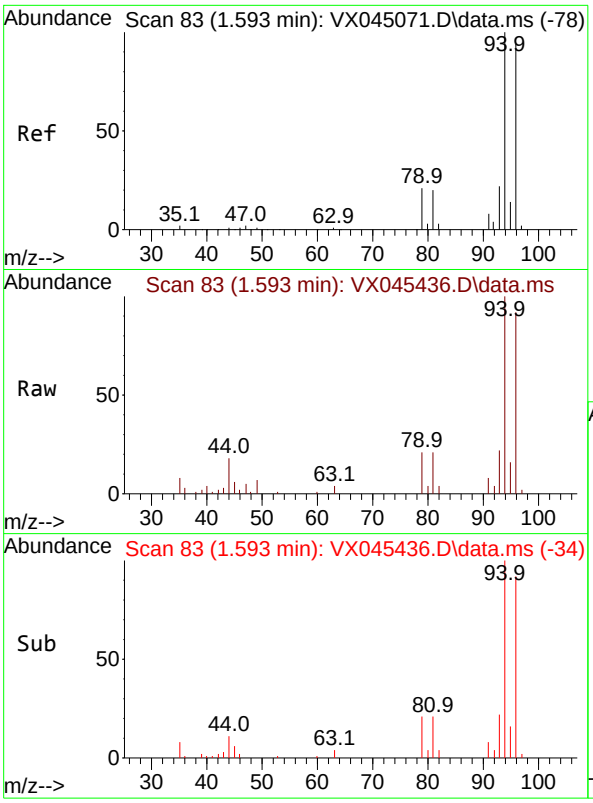


#4
Vinyl Chloride
Concen: 15.950 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 62 Resp: 21512

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.3	36.5

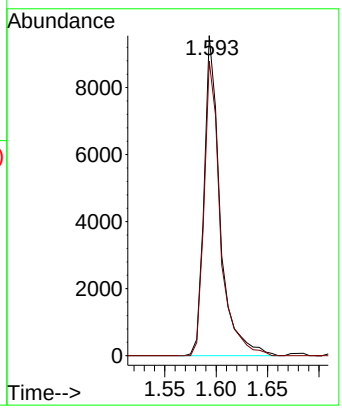




#5
Bromomethane
Concen: 19.558 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 94 Resp: 1037

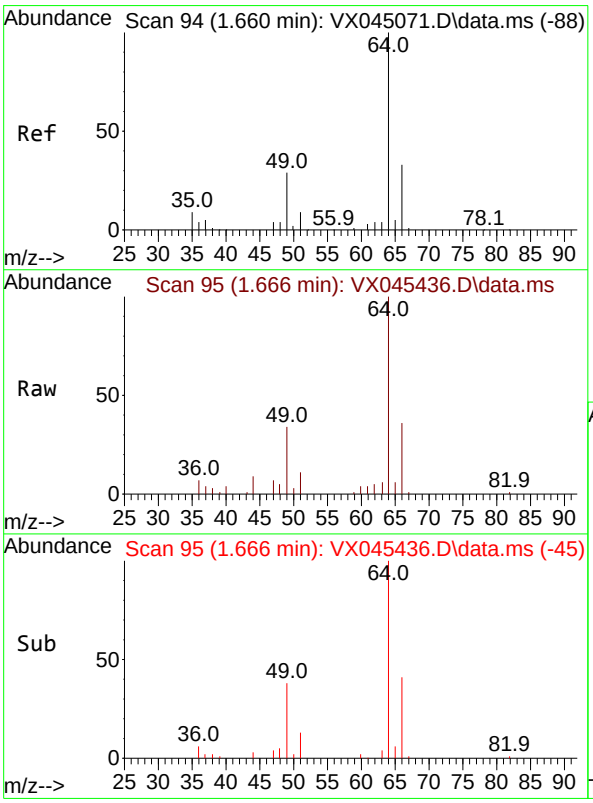
Ion	Ratio	Lower	Upper
94	100		
96	92.1	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

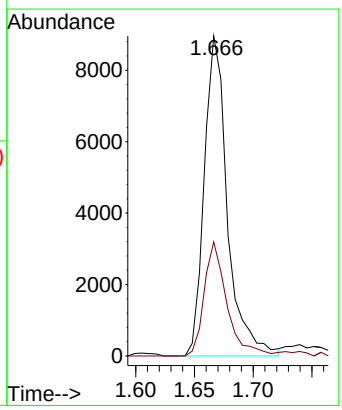
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

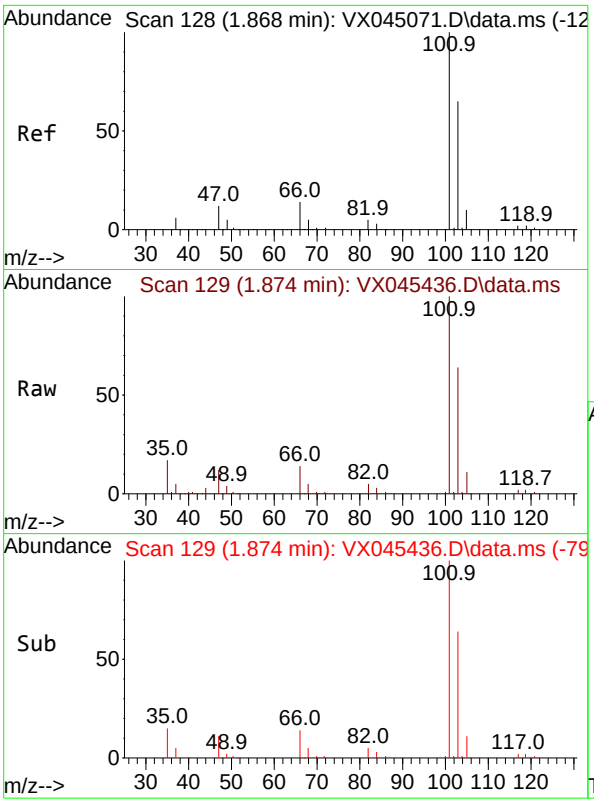


#6
Chloroethane
Concen: 19.726 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 64 Resp: 12272

Ion	Ratio	Lower	Upper
64	100		
66	35.6	26.7	40.1

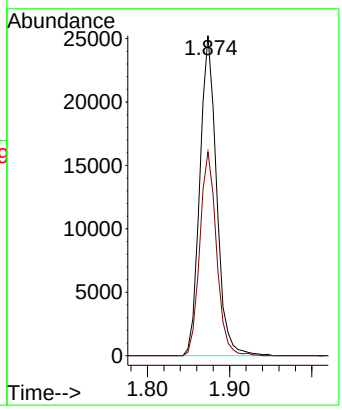




#7
Trichlorofluoromethane
Concen: 20.011 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:101 Resp: 3573

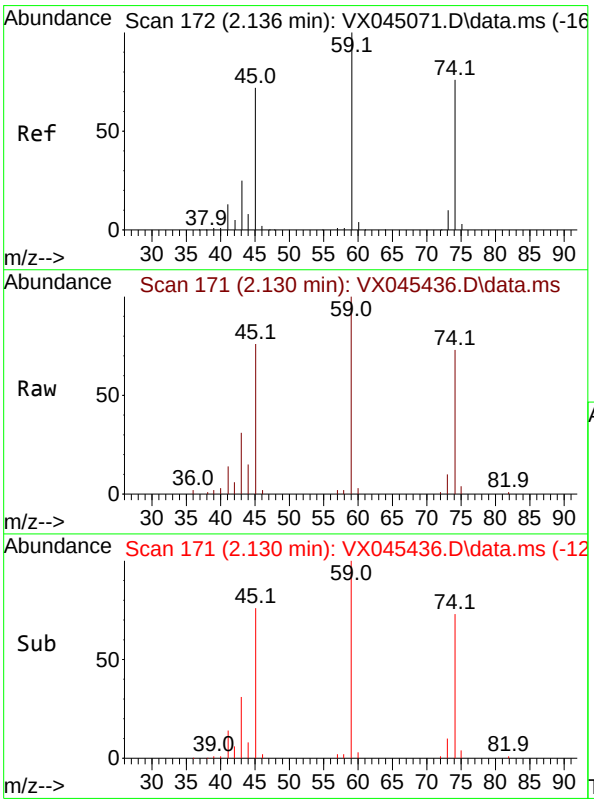
Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

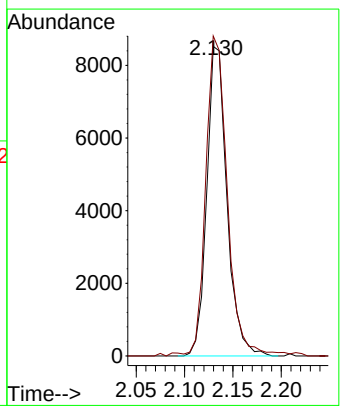
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

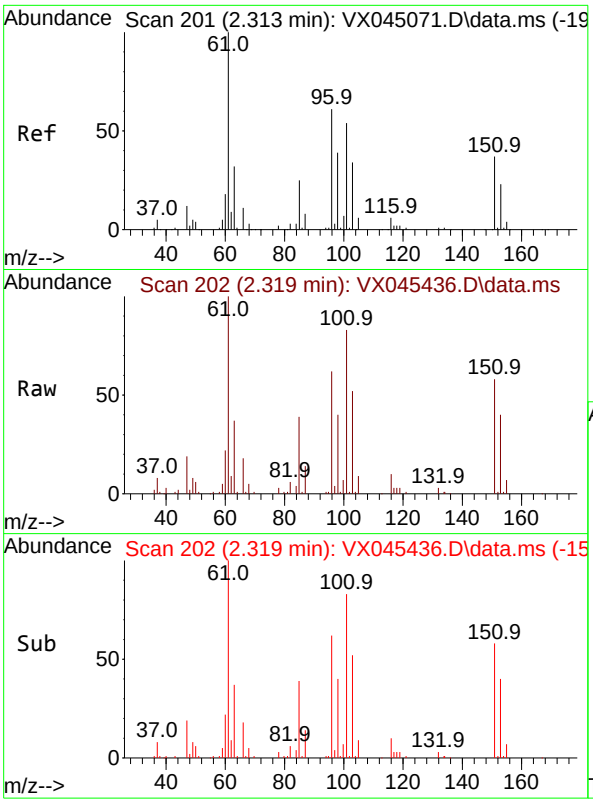


#8
Diethyl Ether
Concen: 17.761 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 74 Resp: 12404

Ion	Ratio	Lower	Upper
74	100		
45	111.0	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.642 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

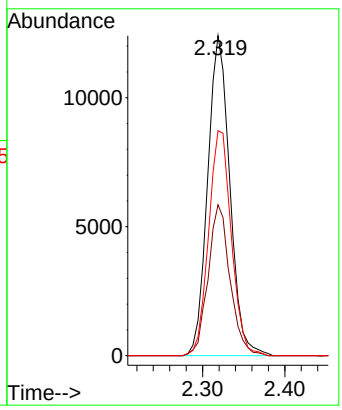
Tgt Ion:101 Resp: 2322(

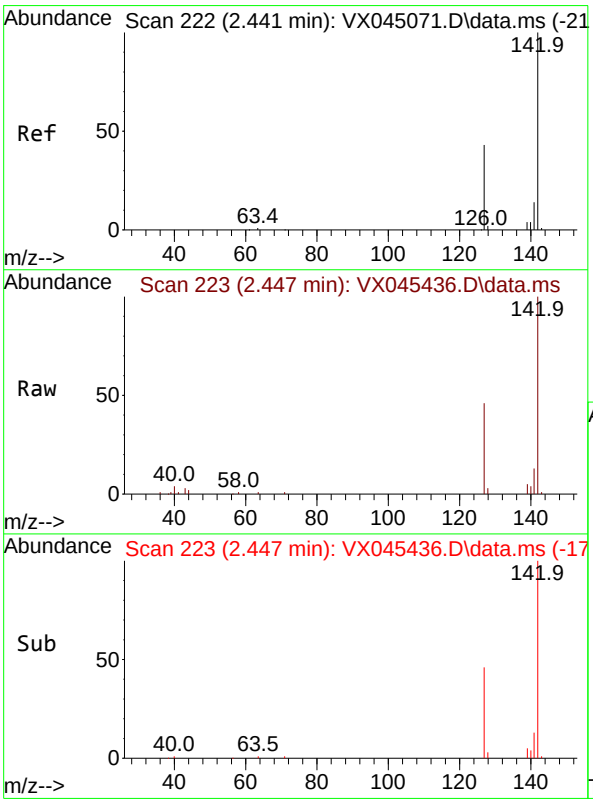
Ion	Ratio	Lower	Upper
101	100		
85	46.7	36.2	54.4
151	72.1	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

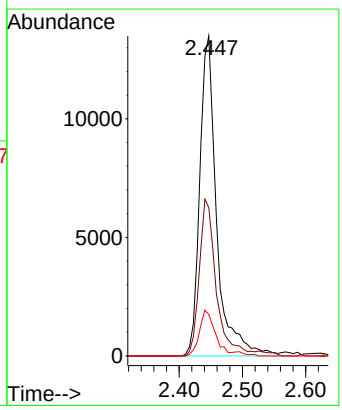


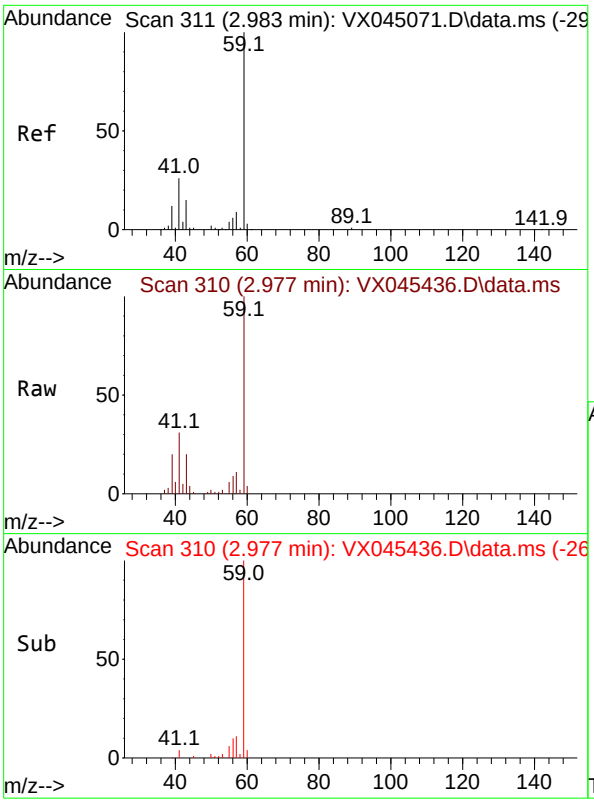


#10
Methyl Iodide
Concen: 19.598 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:142 Resp: 25124

Ion	Ratio	Lower	Upper
142	100		
127	50.2	35.4	53.2
141	13.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 80.091 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

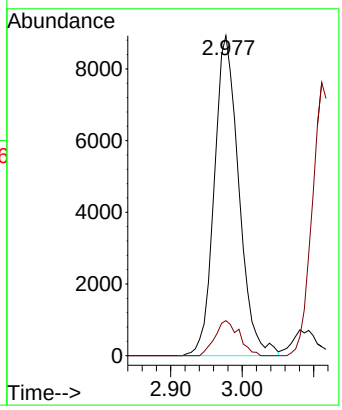
Tgt Ion: 59 Resp: 2129

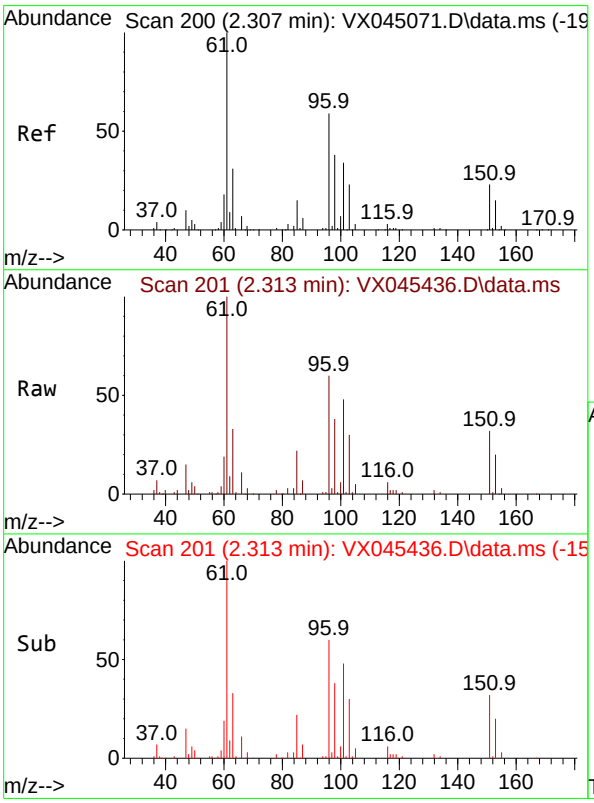
Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

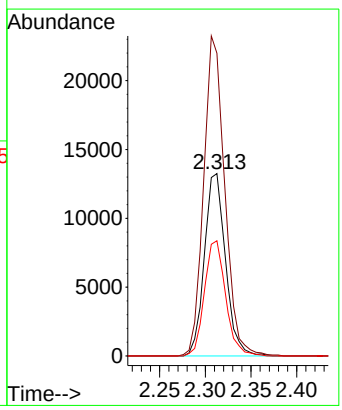


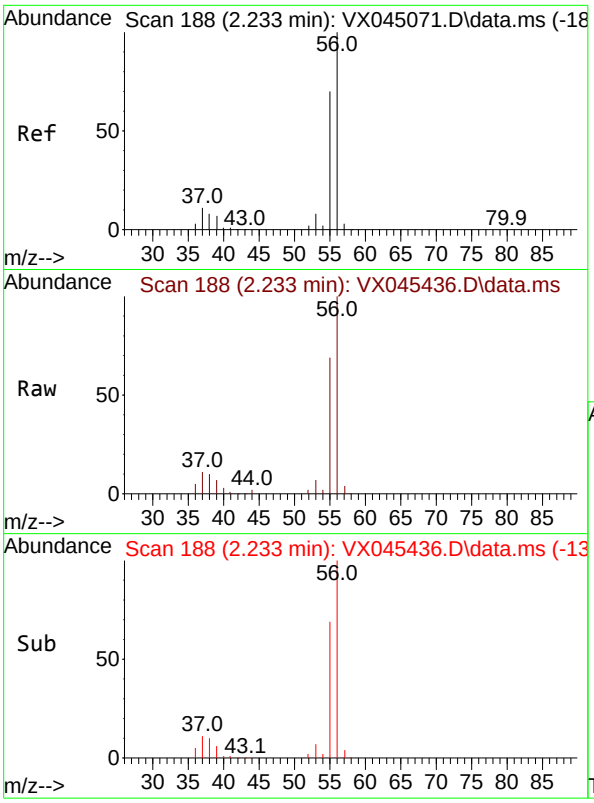


#12
1,1-Dichloroethene
Concen: 19.623 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 96 Resp: 21282

Ion	Ratio	Lower	Upper
96	100		
61	165.9	134.6	202.0
98	63.1	51.0	76.6

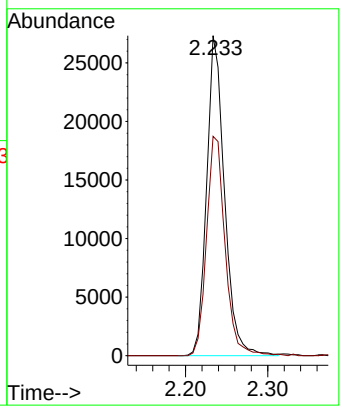




#13
Acrolein
Concen: 133.950 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 56 Resp: 4117

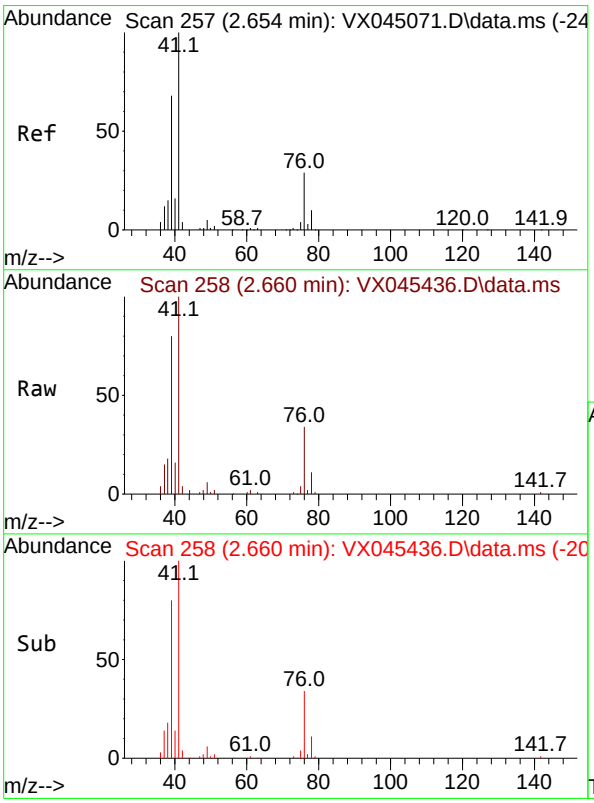
Ion	Ratio	Lower	Upper
56	100		
55	71.2	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

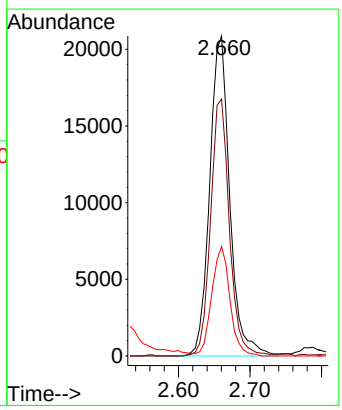
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

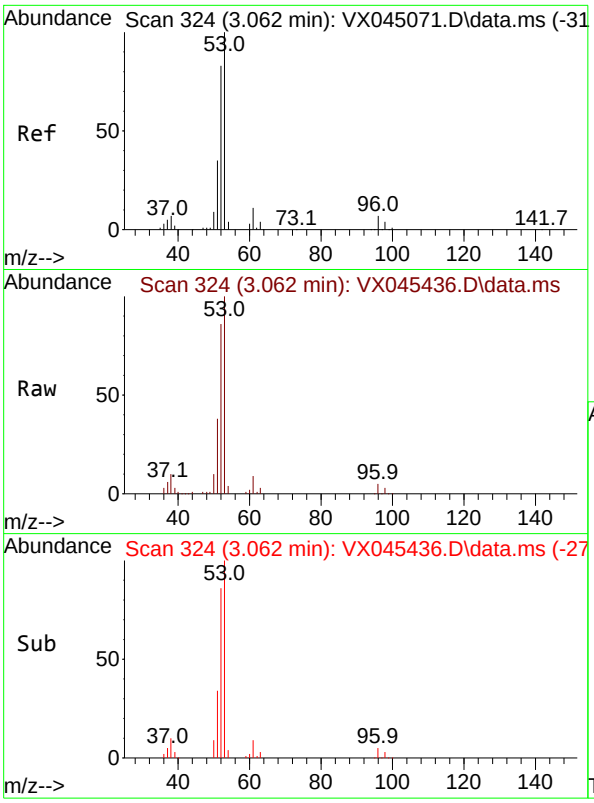


#14
Allyl chloride
Concen: 21.110 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 41 Resp: 40753

Ion	Ratio	Lower	Upper
41	100		
39	75.2	53.8	80.8
76	30.8	25.2	37.8

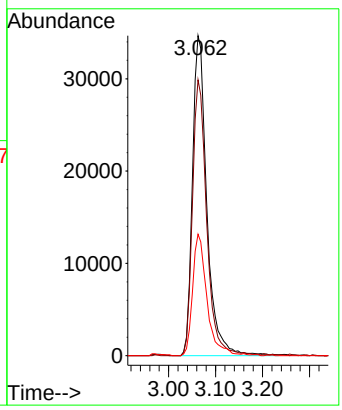




#15
Acrylonitrile
Concen: 103.983 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 53 Resp: 7410

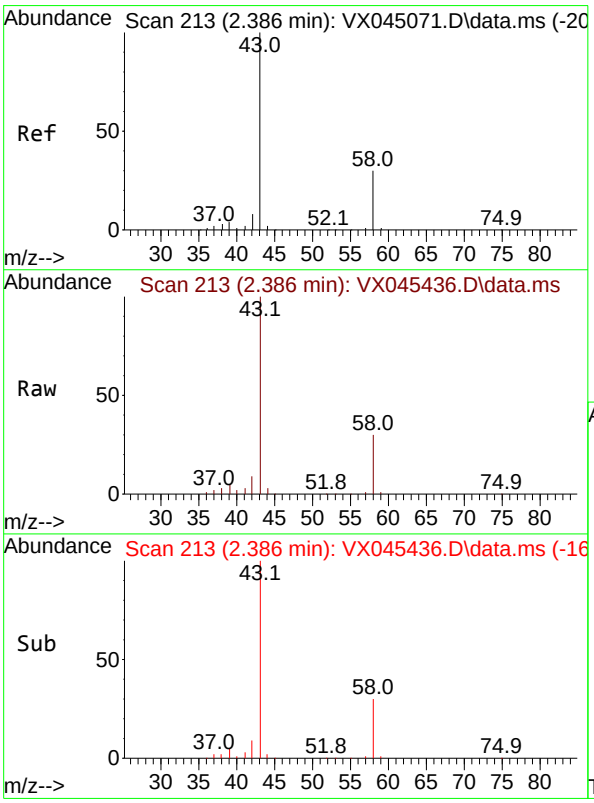
Ion	Ratio	Lower	Upper
53	100		
52	85.3	66.2	99.2
51	38.0	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

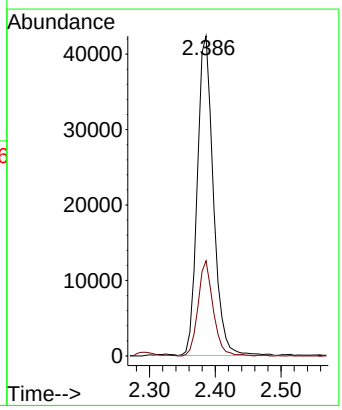
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

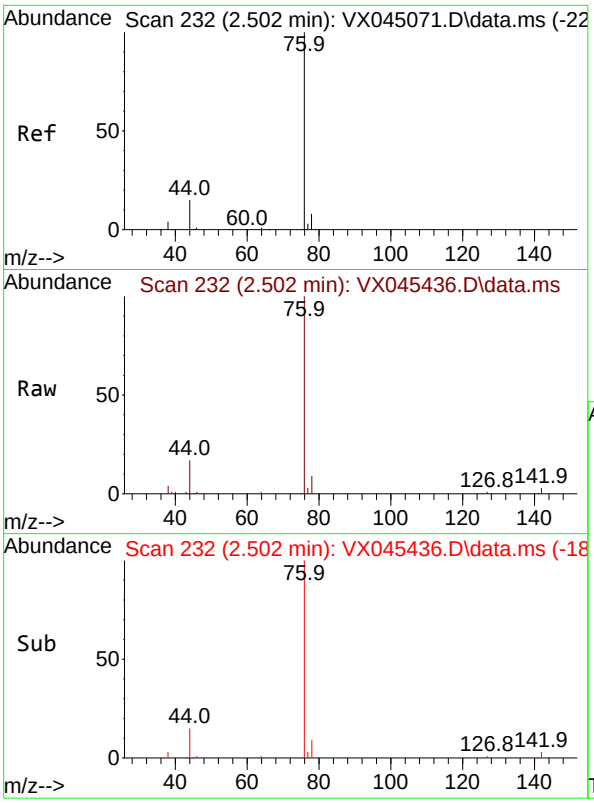


#16
Acetone
Concen: 110.107 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 71720

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.2	36.4

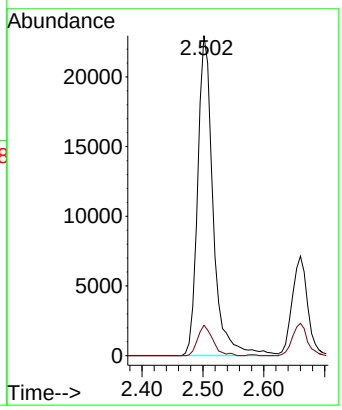




#17
Carbon Disulfide
Concen: 13.988 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 76 Resp: 4040

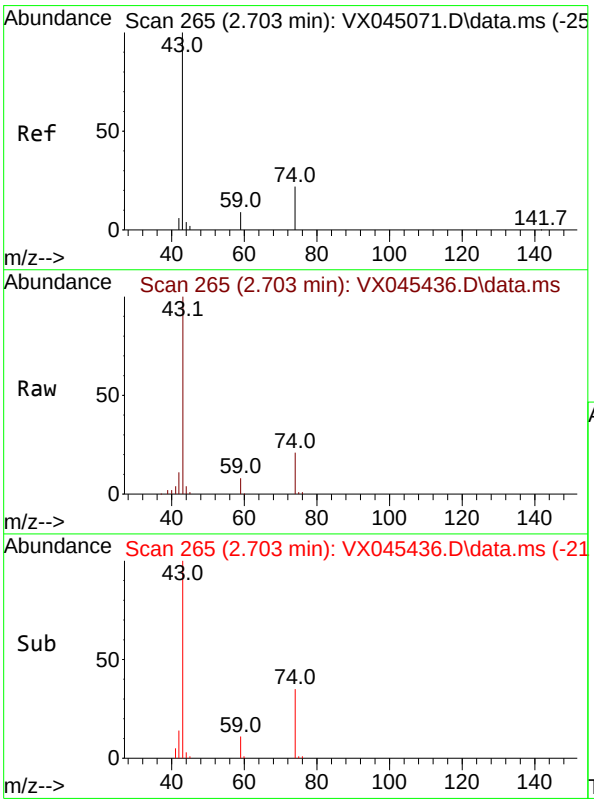
Ion	Ratio	Lower	Upper
76	100		
78	9.5	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

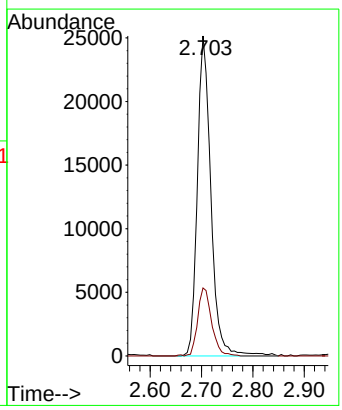
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

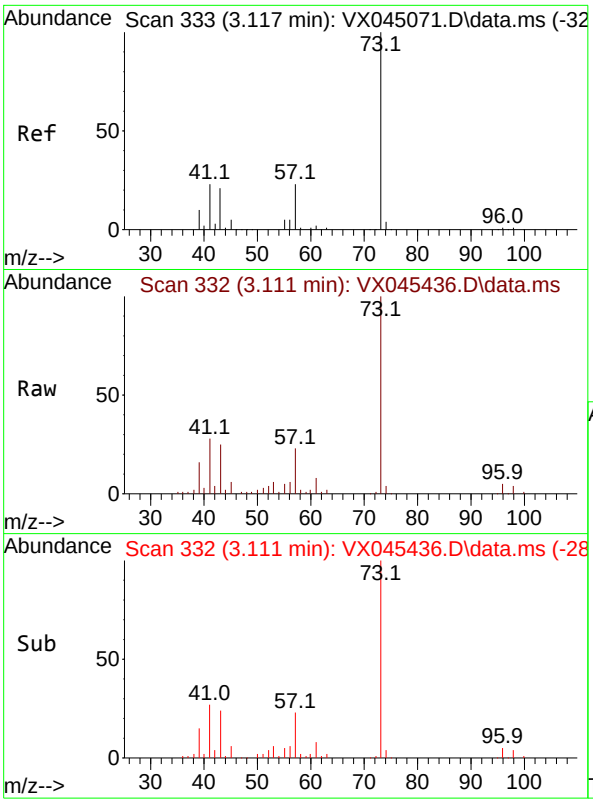


#18
Methyl Acetate
Concen: 29.376 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 46032

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

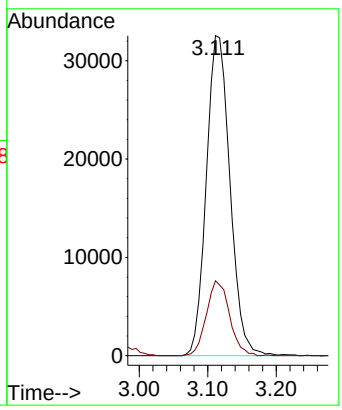




#19
Methyl tert-butyl Ether
Concen: 21.473 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 73 Resp: 7813

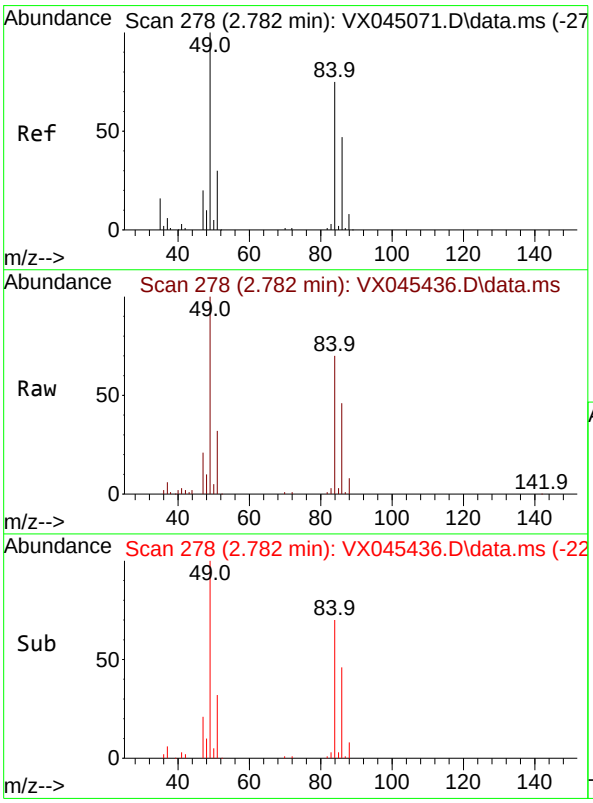
Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

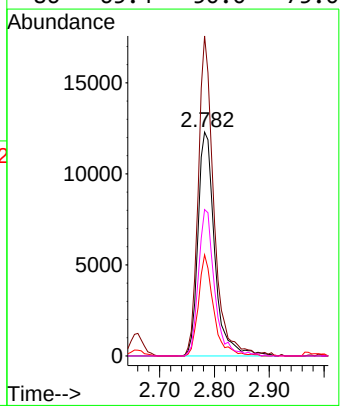
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

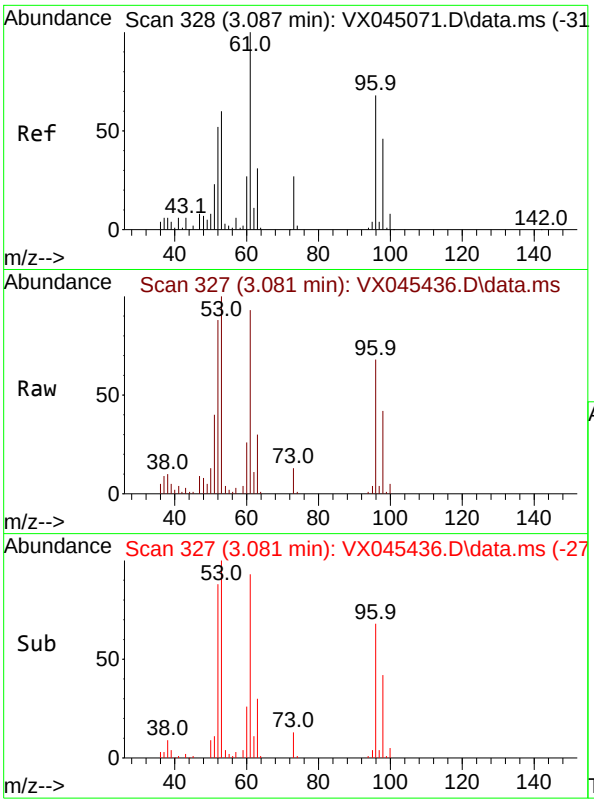


#20
Methylene Chloride
Concen: 20.238 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 84 Resp: 26113

Ion	Ratio	Lower	Upper
84	100		
49	143.0	106.5	159.7
51	45.2	32.1	48.1
86	65.4	50.0	75.0

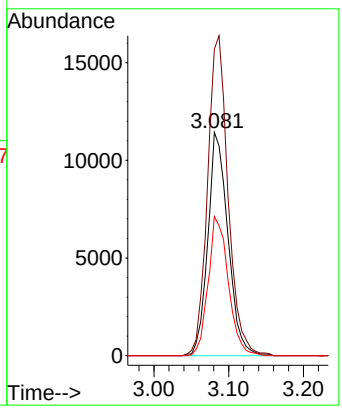




#21
trans-1,2-Dichloroethene
Concen: 20.072 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 96 Resp: 2150

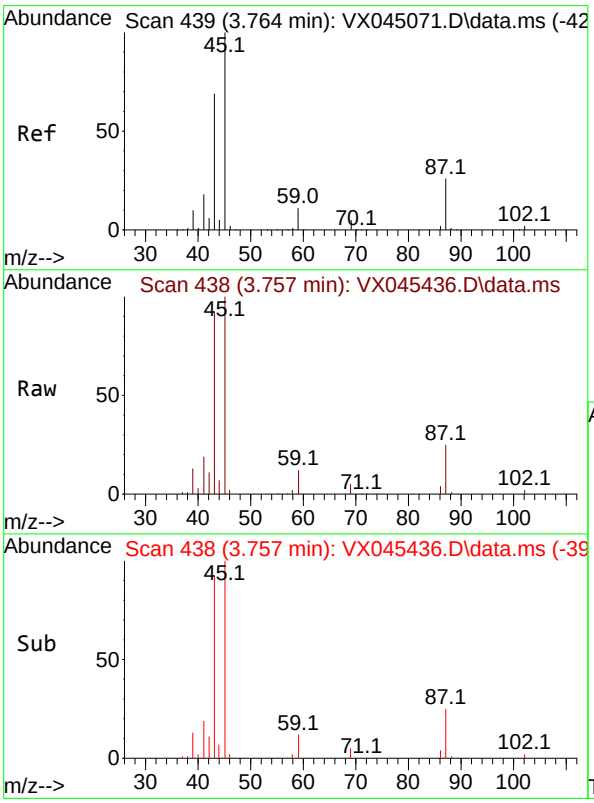
Ion	Ratio	Lower	Upper
96	100		
61	137.2	117.0	175.4
98	62.3	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

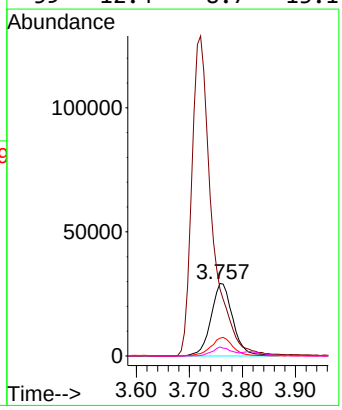
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

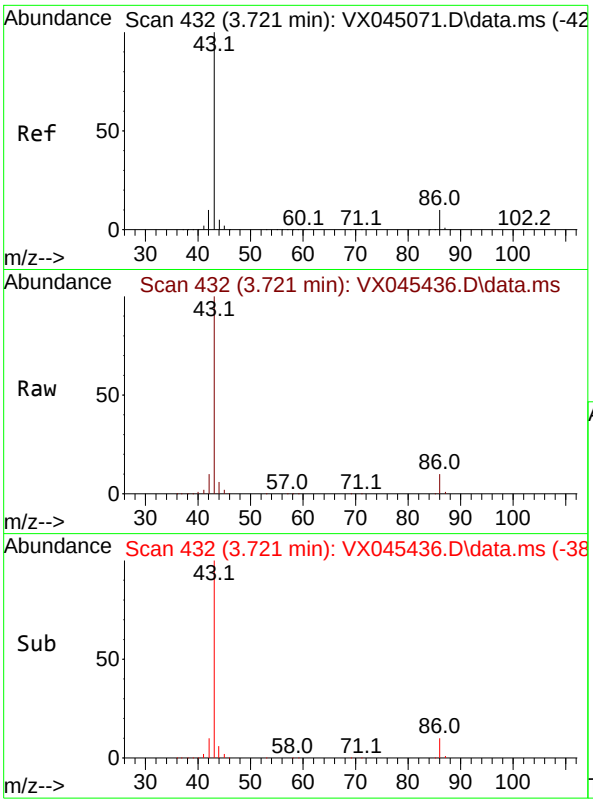


#22
Diisopropyl ether
Concen: 21.242 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 45 Resp: 83401

Ion	Ratio	Lower	Upper
45	100		
43	91.4	54.9	82.3#
87	24.6	21.0	31.4
59	12.4	8.7	13.1





#23
Vinyl Acetate
Concen: 104.034 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

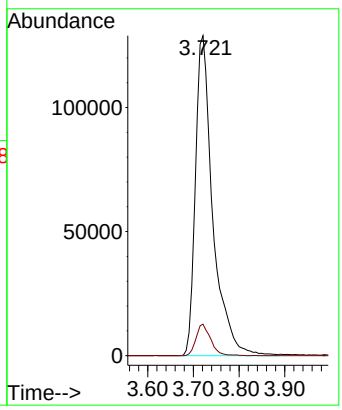
Tgt Ion: 43 Resp: 34085

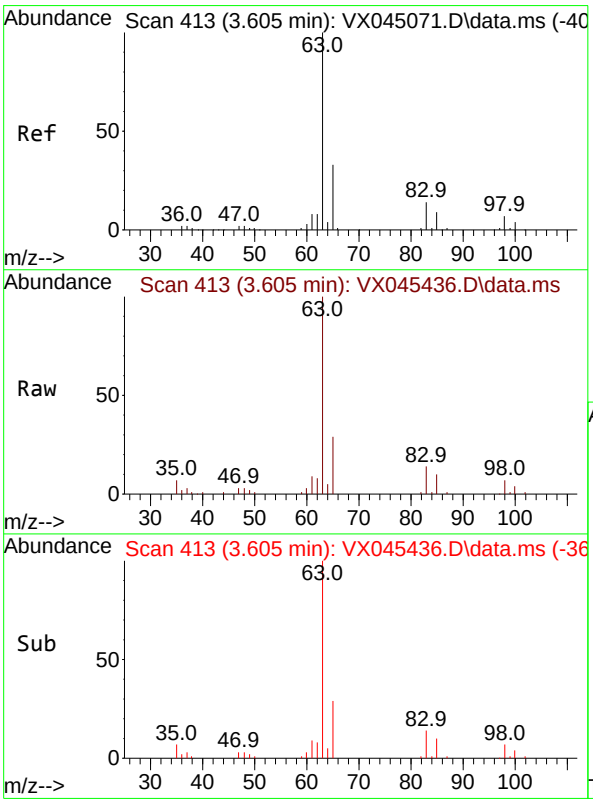
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

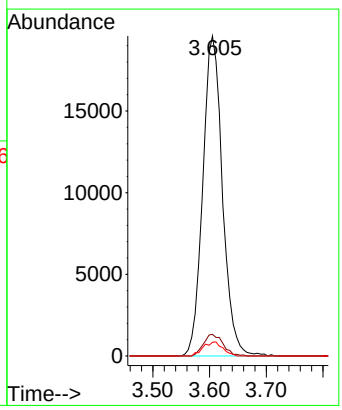


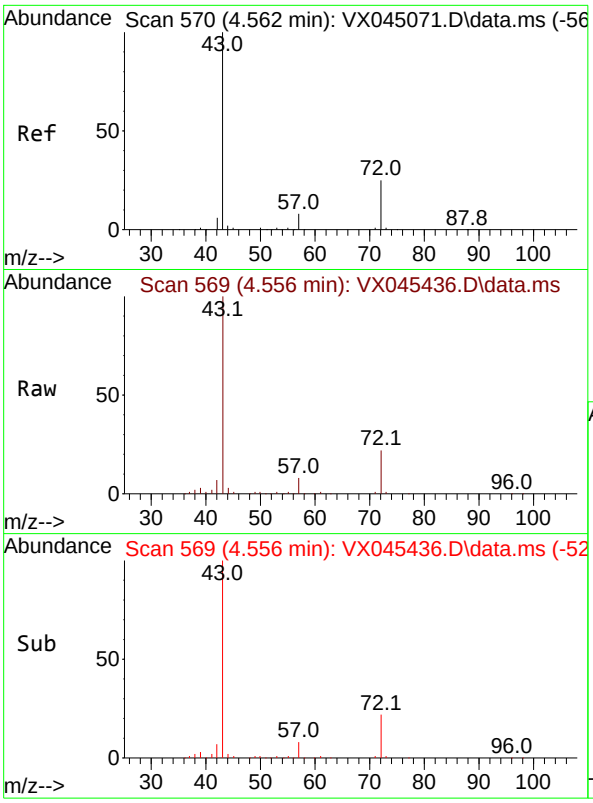


#24
1,1-Dichloroethane
Concen: 21.451 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 63 Resp: 47200

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.3	2.1	6.5





#25
2-Butanone
Concen: 110.005 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

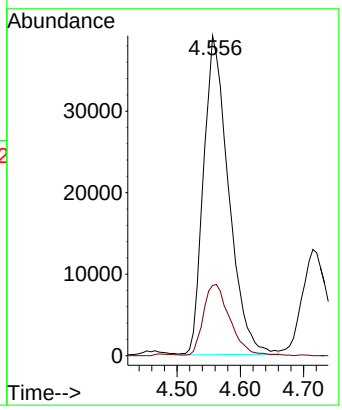
Tgt Ion: 43 Resp: 10785

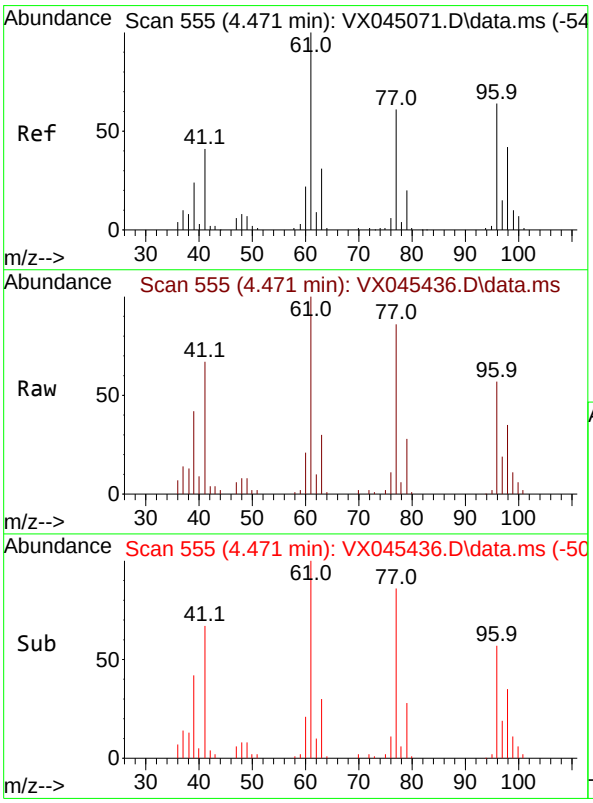
Ion	Ratio	Lower	Upper
43	100		
72	21.8	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

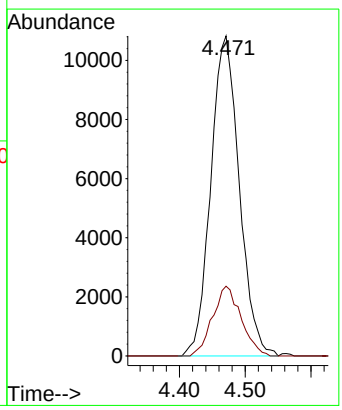


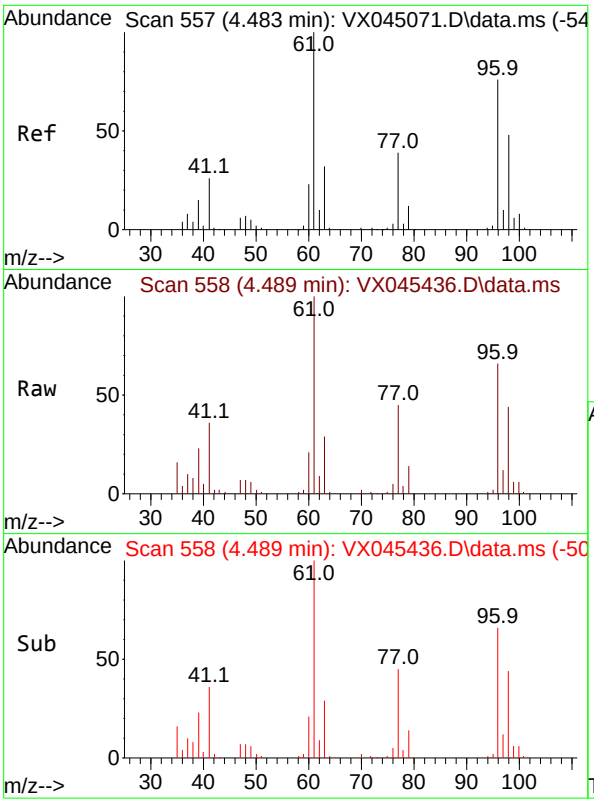


#26
2,2-Dichloropropane
Concen: 31.616 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 77 Resp: 32630

Ion	Ratio	Lower	Upper
77	100		
97	21.8	12.4	37.0

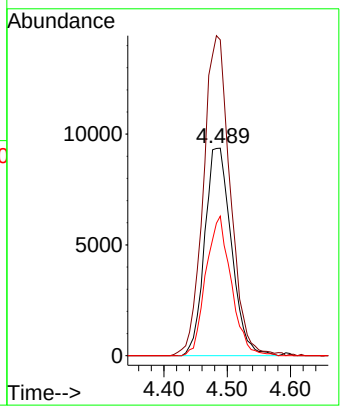




#27
cis-1,2-Dichloroethene
Concen: 20.781 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 96 Resp: 2748

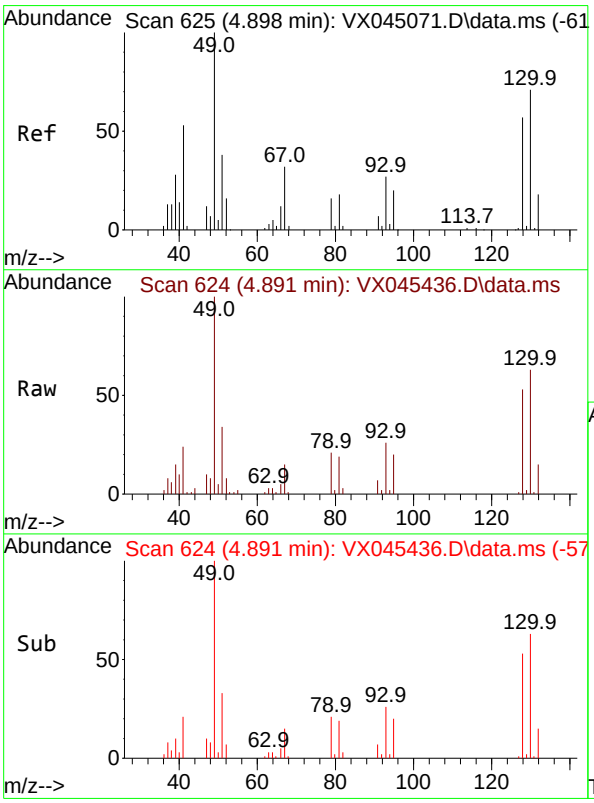
Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	283.2
98	63.7	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

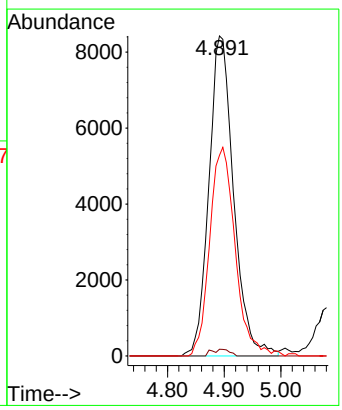
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

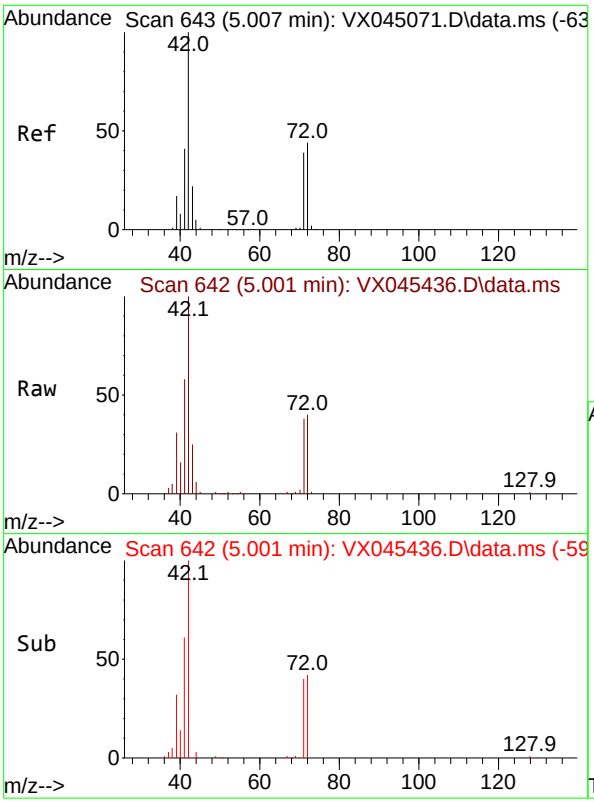


#28
Bromochloromethane
Concen: 24.329 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 49 Resp: 25516

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.4
130	66.8	56.1	84.1

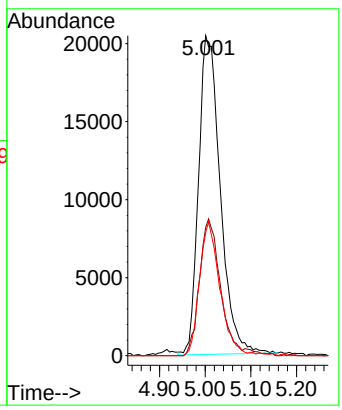




#29
Tetrahydrofuran
Concen: 102.332 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 42 Resp: 6737

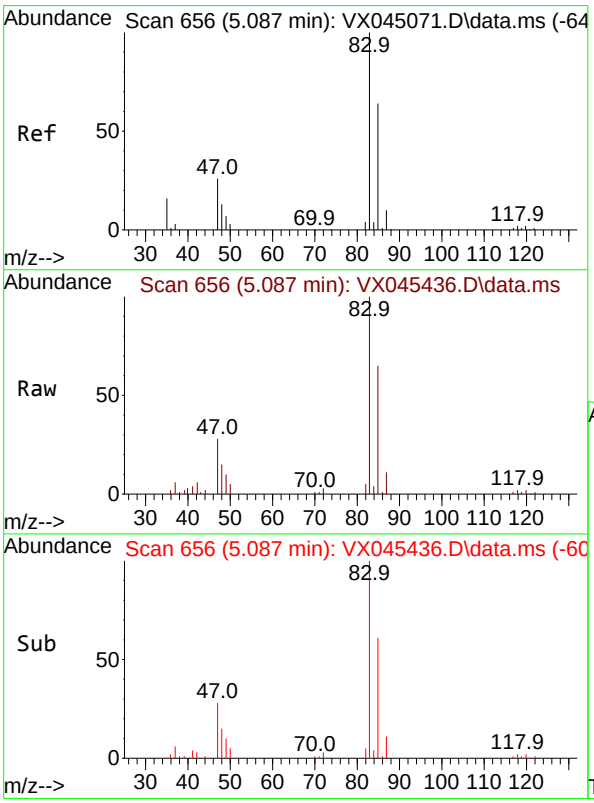
Ion	Ratio	Lower	Upper
42	100		
72	40.8	34.1	51.1
71	39.6	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

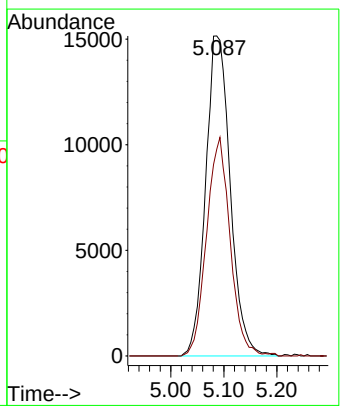
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

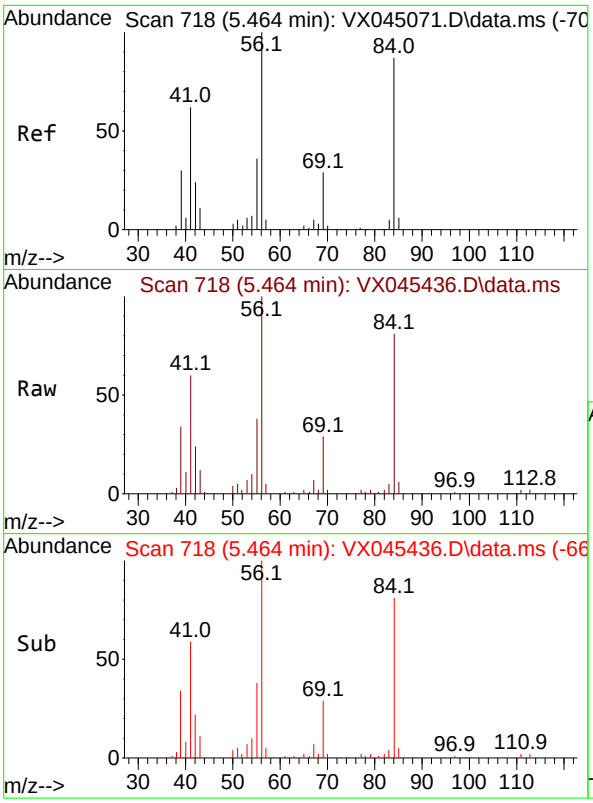


#30
Chloroform
Concen: 22.337 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 83 Resp: 48836

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.4	77.2

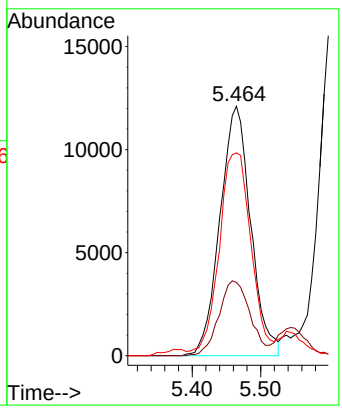




#31
Cyclohexane
Concen: 19.749 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 56 Resp: 3772

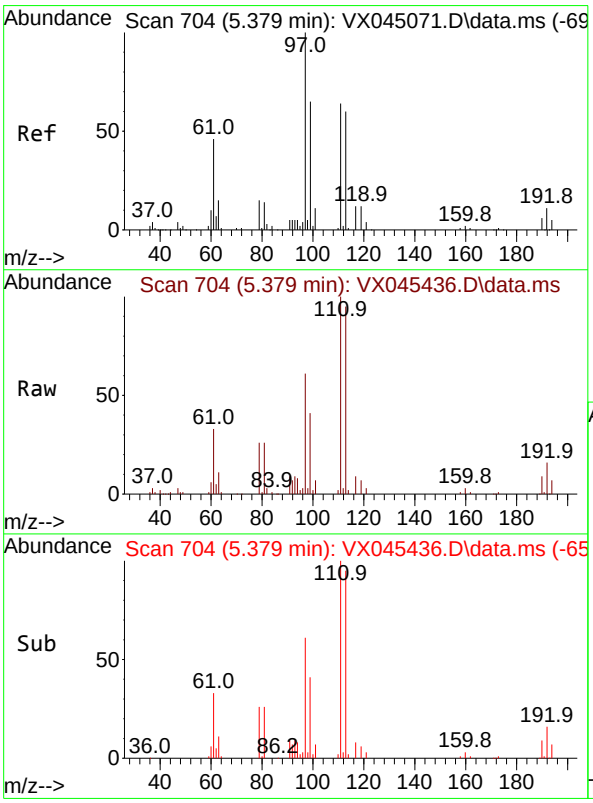
Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.4	35.2
84	78.9	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

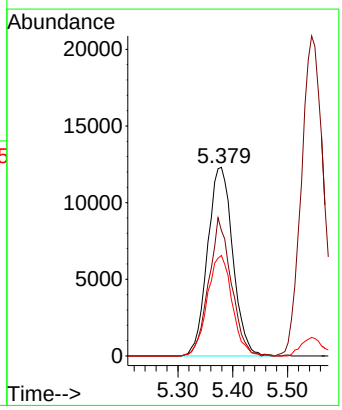
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

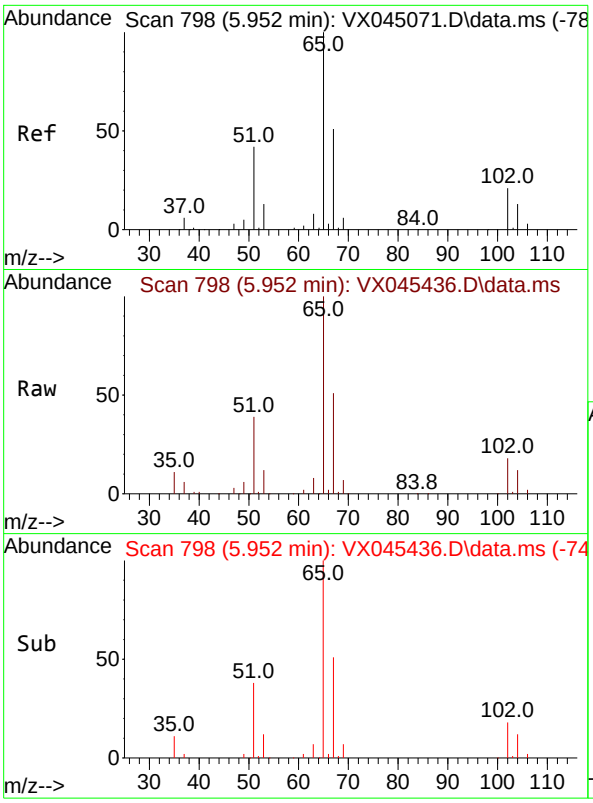


#32
1,1,1-Trichloroethane
Concen: 22.298 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 97 Resp: 39374

Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.6	77.4
61	52.6	38.4	57.6

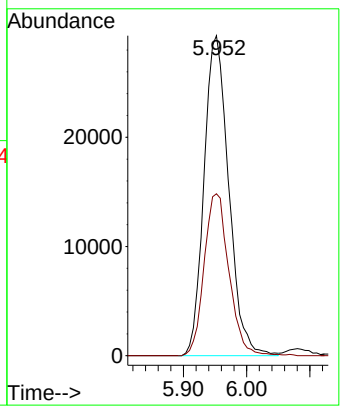




#33
1,2-Dichloroethane-d4
Concen: 56.626 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 65 Resp: 7949

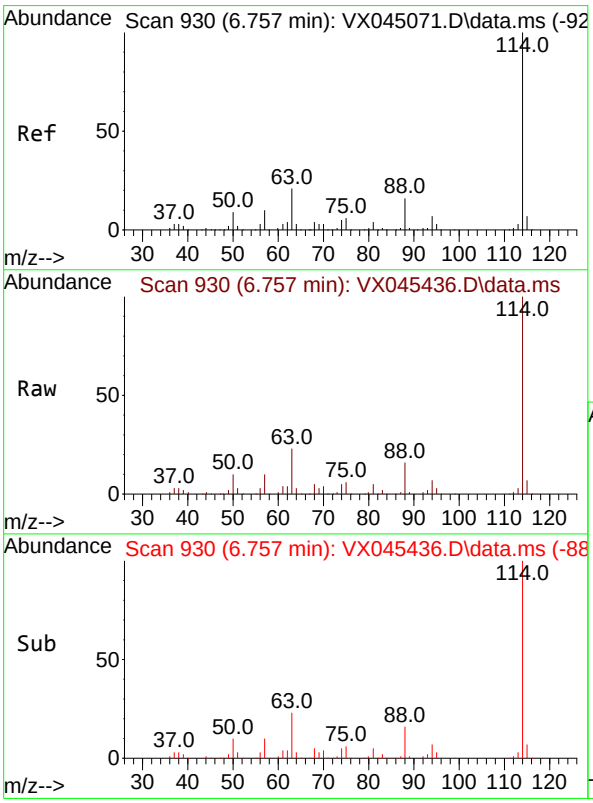
Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

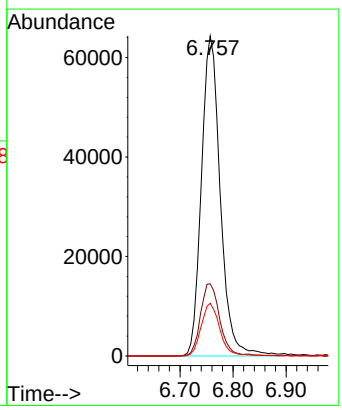
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

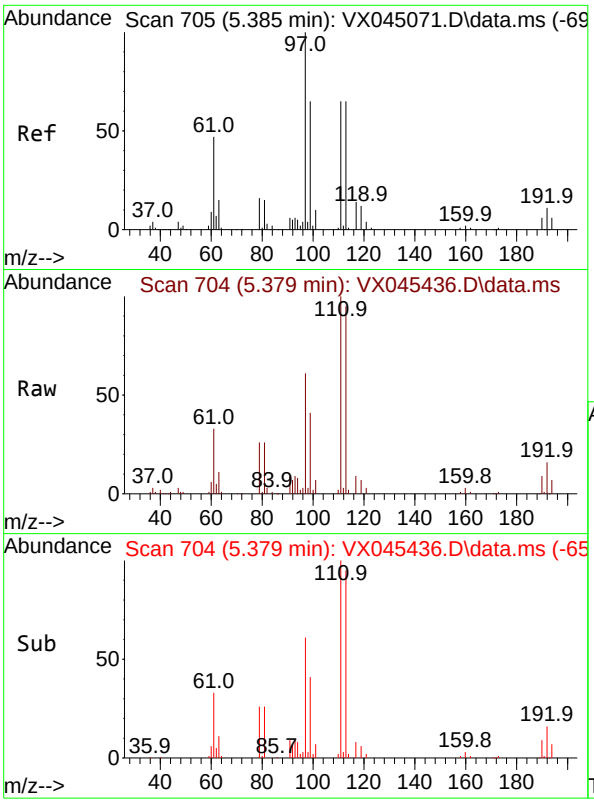


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:114 Resp: 159282

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	41.8
88	16.5	0.0	32.8

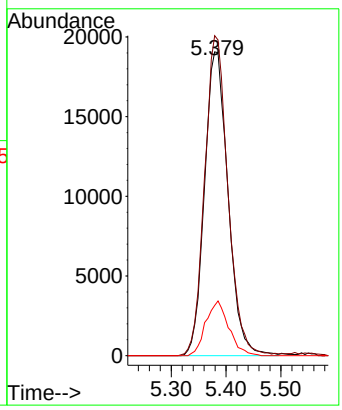




#35
Dibromofluoromethane
Concen: 53.413 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:113 Resp: 5688

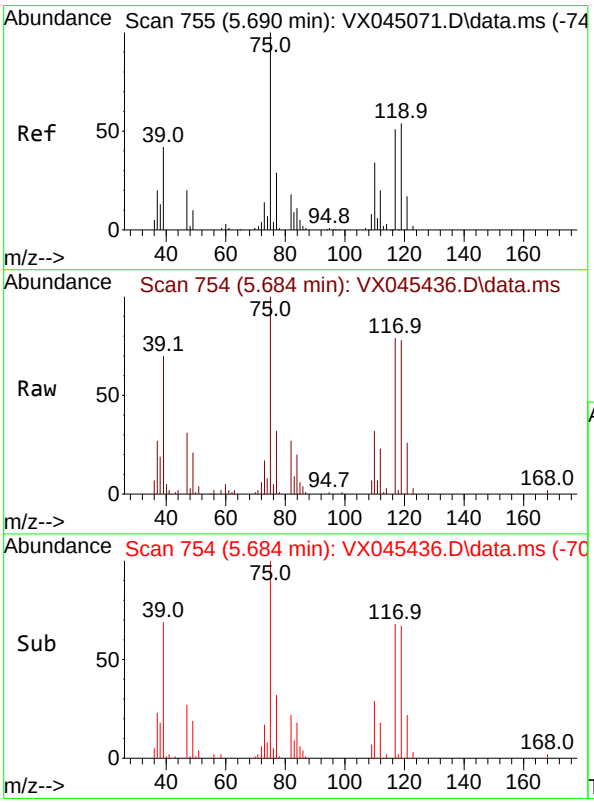
Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.8	122.6
192	17.6	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

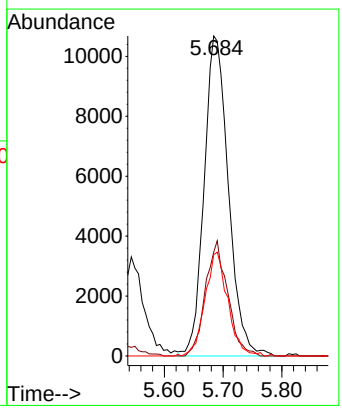
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

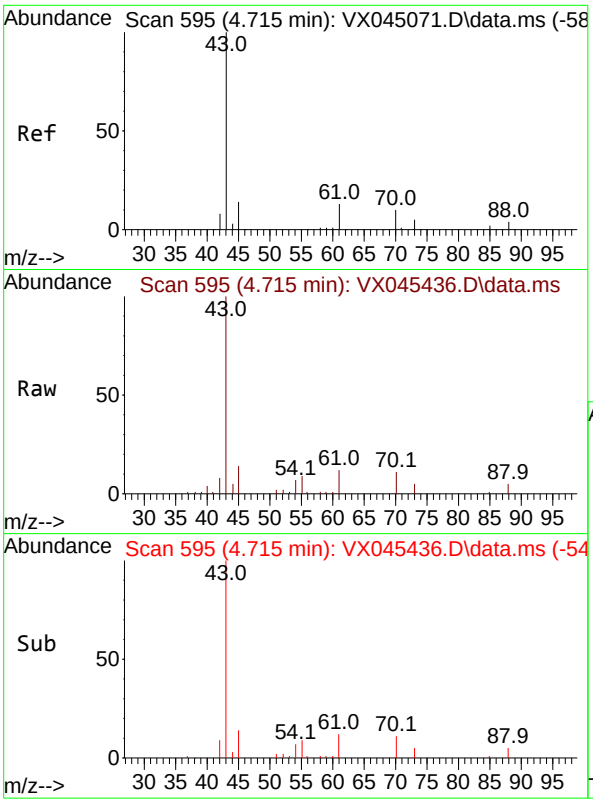


#36
1,1-Dichloropropene
Concen: 20.998 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 30671

Ion	Ratio	Lower	Upper
75	100		
110	33.1	16.9	50.6
77	30.4	24.5	36.7

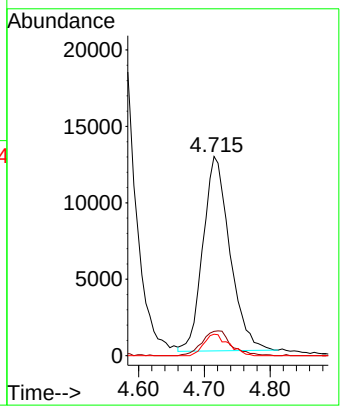




#37
Ethyl Acetate
Concen: 19.253 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 3623

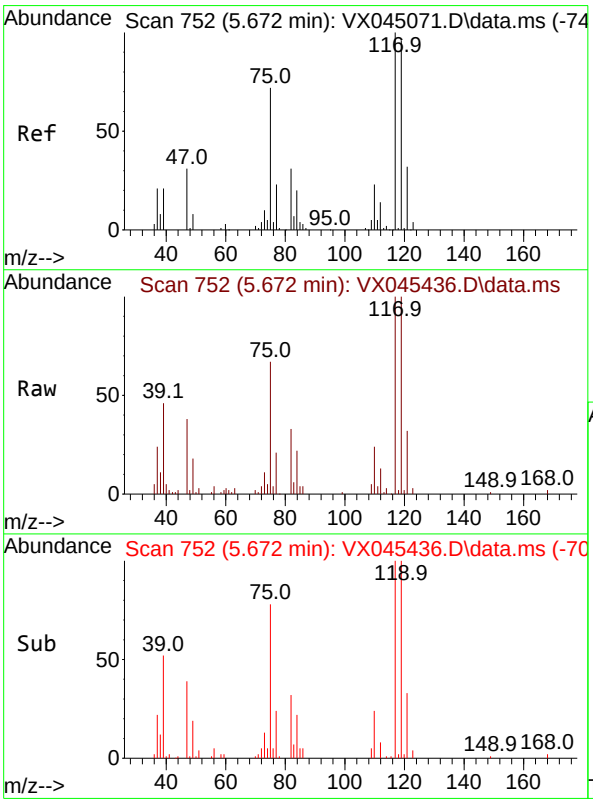
Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.8	16.2
70	10.2	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

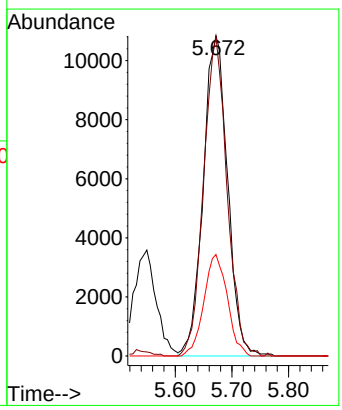
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

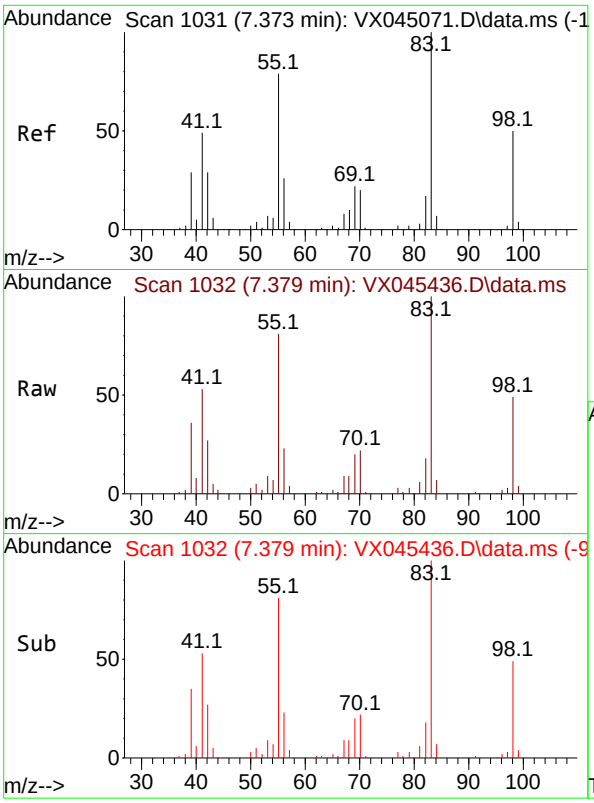


#38
Carbon Tetrachloride
Concen: 21.844 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:117 Resp: 32393

Ion	Ratio	Lower	Upper
117	100		
119	99.8	76.7	115.1
121	31.7	25.5	38.3

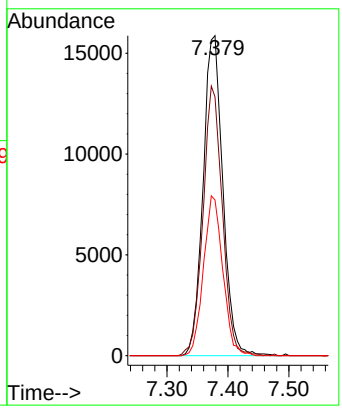




#39
Methylcyclohexane
Concen: 20.495 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 83 Resp: 3587

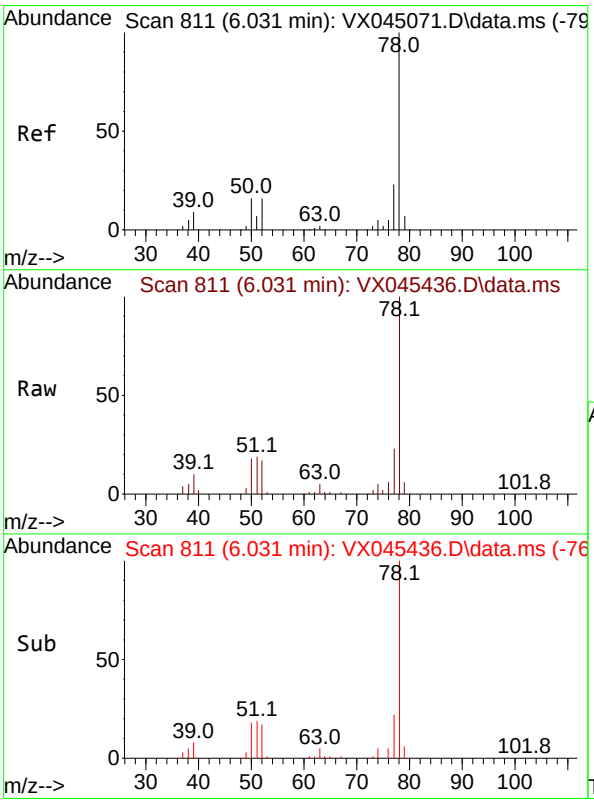
Ion	Ratio	Lower	Upper
83	100		
55	80.9	63.0	94.4
98	48.7	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

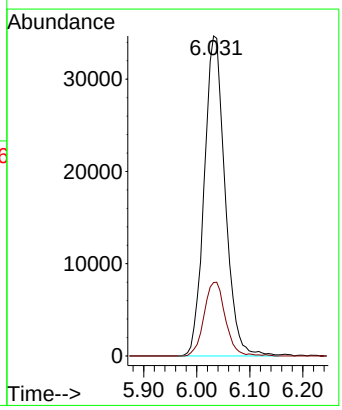
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

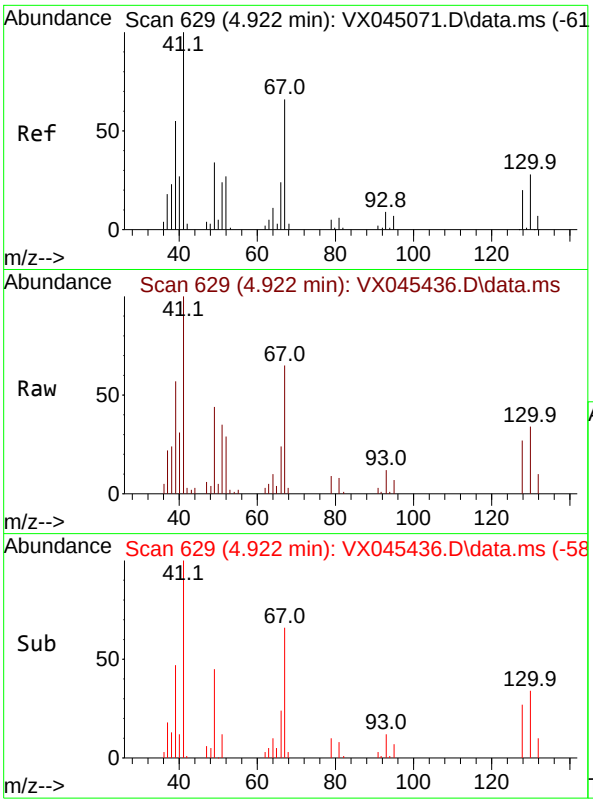


#40
Benzene
Concen: 20.503 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 78 Resp: 94569

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.8	28.2

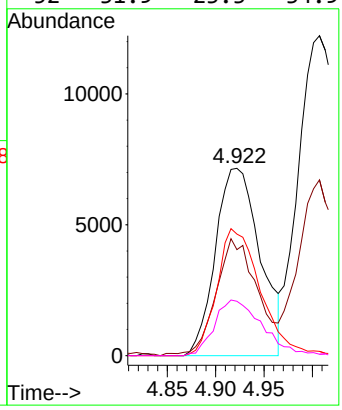




#41
Methacrylonitrile
Concen: 22.585 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 41 Resp: 2298

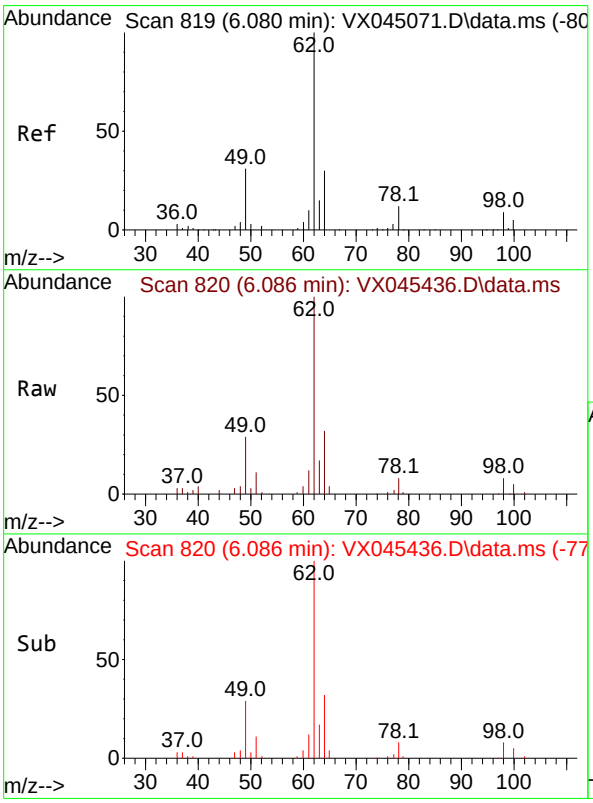
Ion	Ratio	Lower	Upper
41	100		
39	58.1	44.6	67.0
67	66.4	53.9	80.9
52	31.9	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

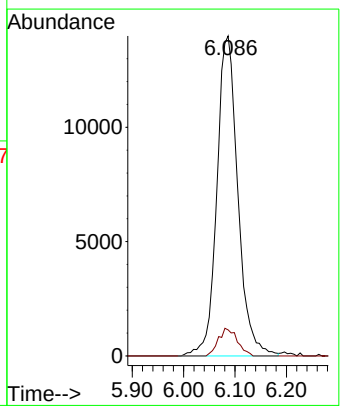
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

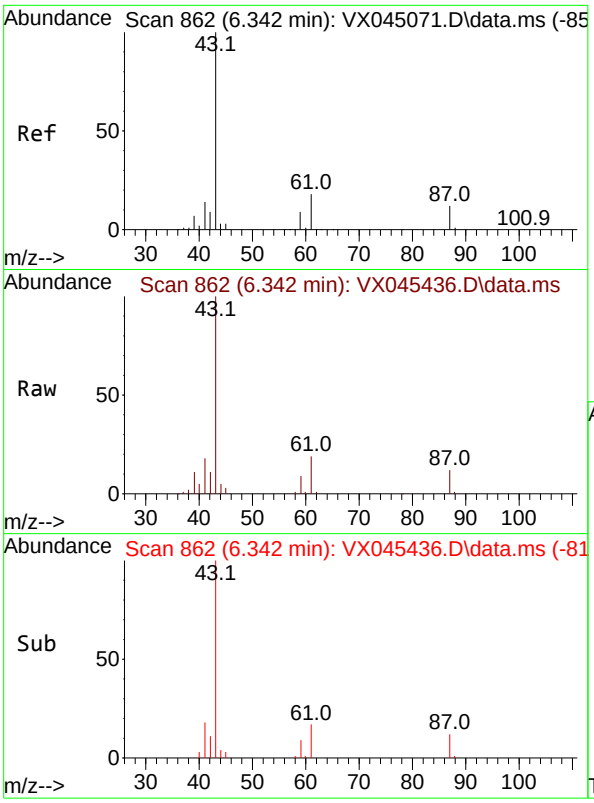


#42
1,2-Dichloroethane
Concen: 23.922 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 62 Resp: 39733

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2

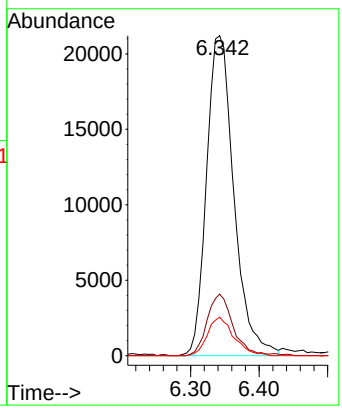




#43
Isopropyl Acetate
Concen: 21.175 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 5893

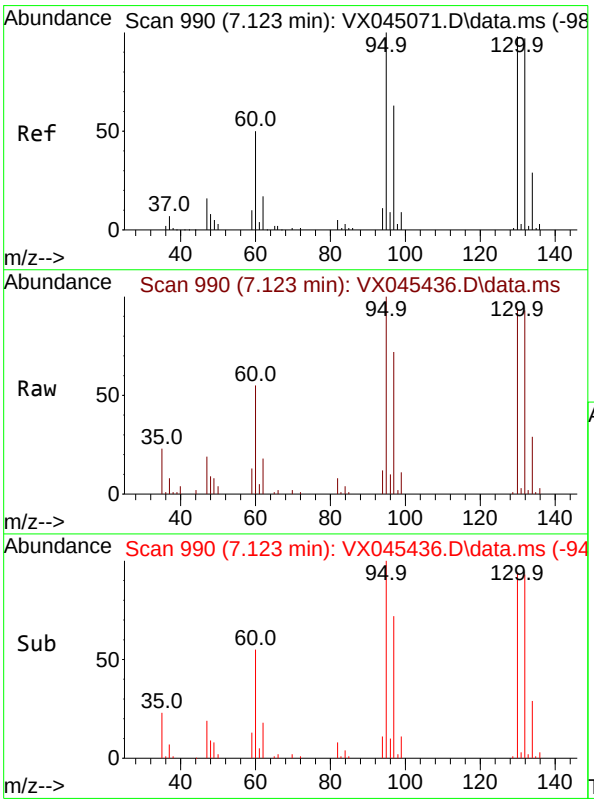
Ion	Ratio	Lower	Upper
43	100		
61	18.4	14.9	22.3
87	11.5	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

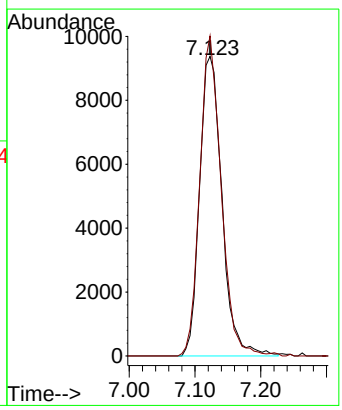
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

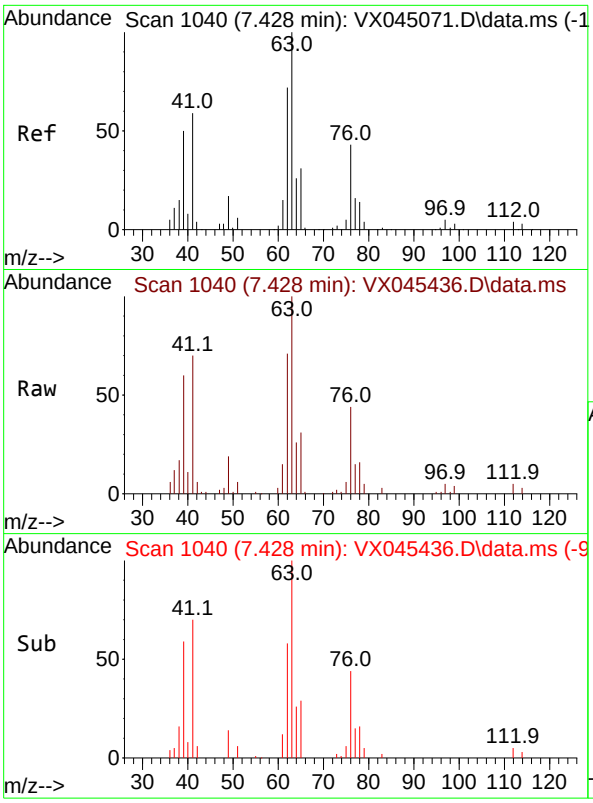


#44
Trichloroethene
Concen: 20.499 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:130 Resp: 22201

Ion	Ratio	Lower	Upper
130	100		
95	106.8	0.0	205.0

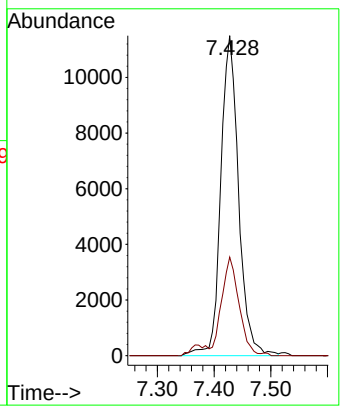




#45
1,2-Dichloropropane
Concen: 21.126 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 63 Resp: 2505

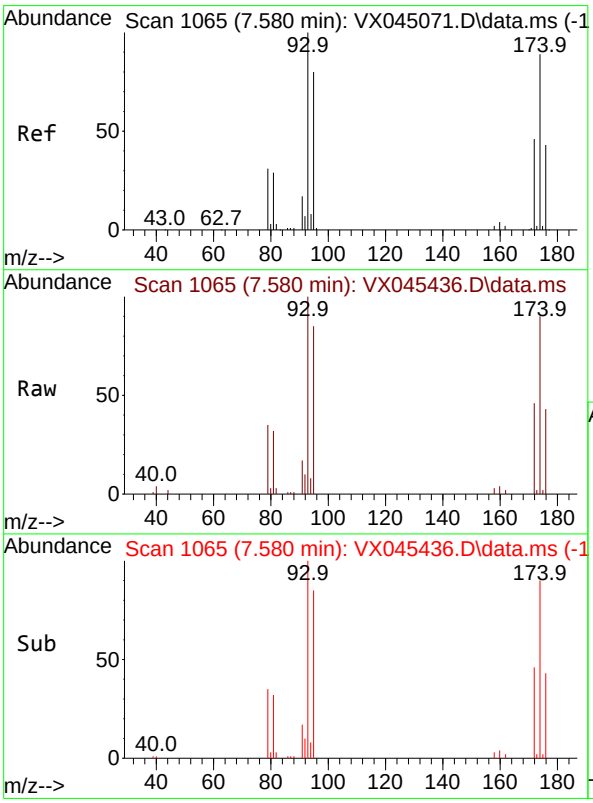
Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

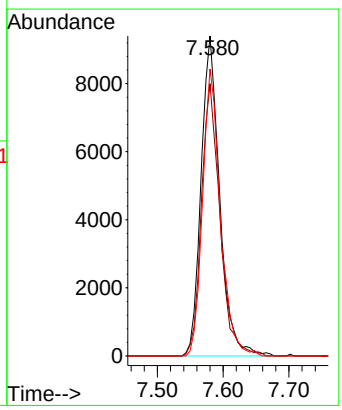
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

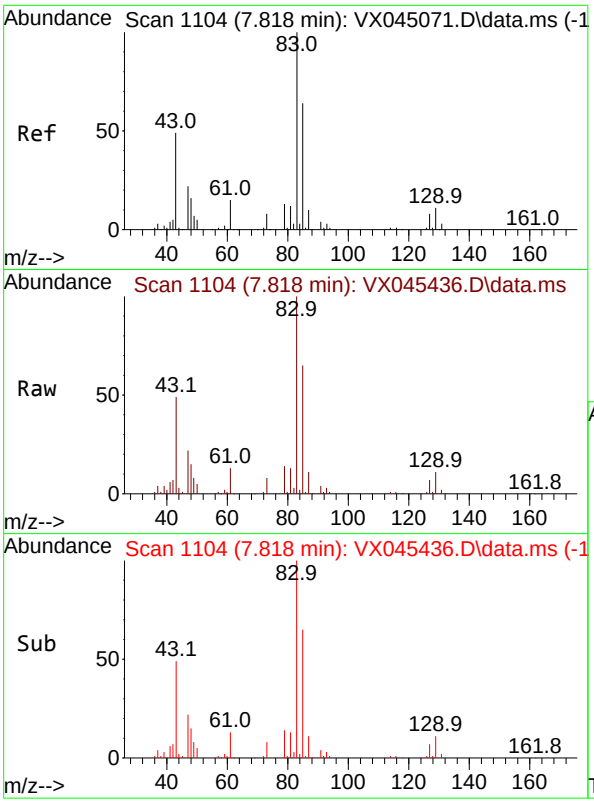


#46
Dibromomethane
Concen: 22.050 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 93 Resp: 18482

Ion	Ratio	Lower	Upper
93	100		
95	84.4	65.8	98.8
174	85.8	72.2	108.2

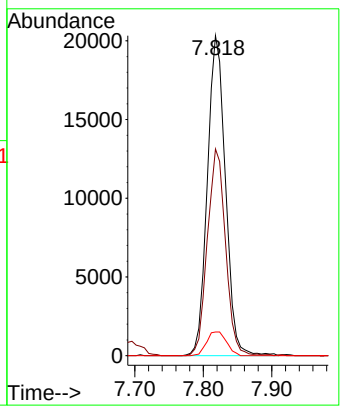




#47
Bromodichloromethane
Concen: 22.690 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 83 Resp: 3730

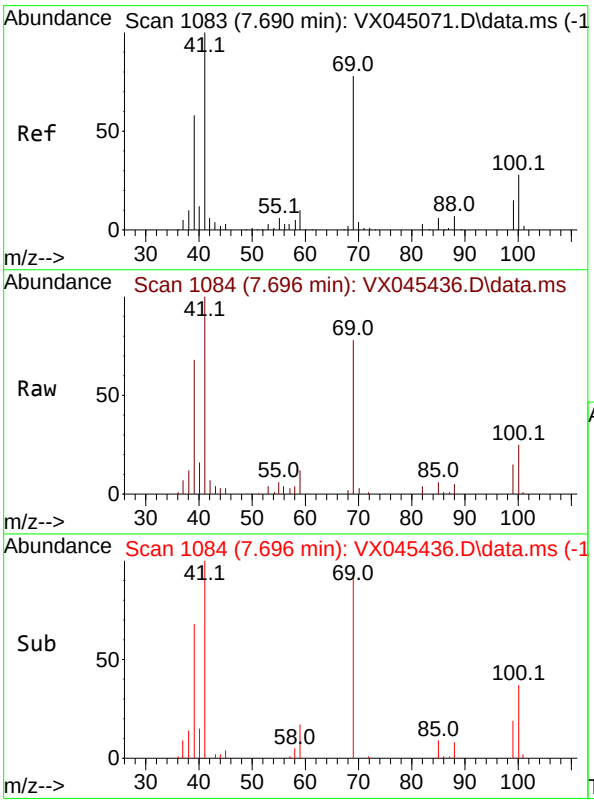
Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.1	76.7
127	7.4	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

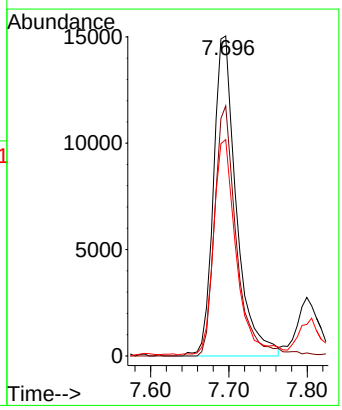
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

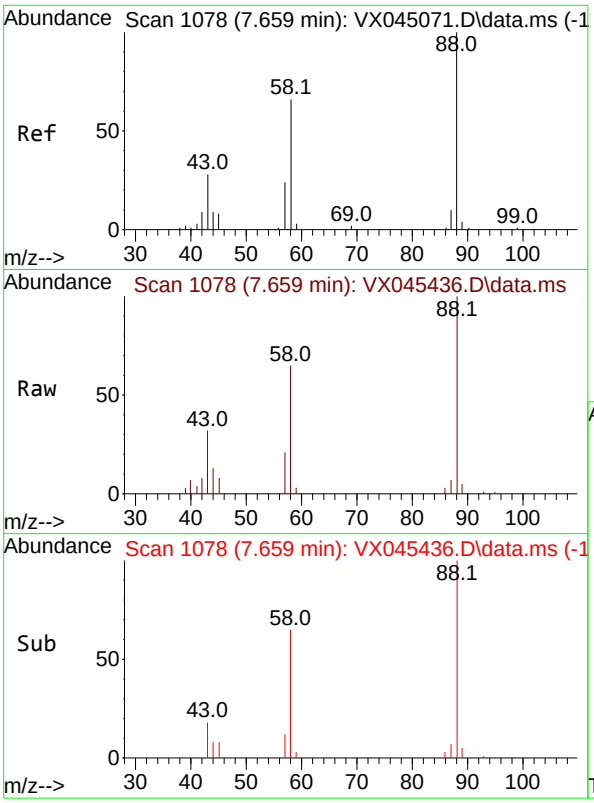


#48
Methyl methacrylate
Concen: 21.839 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 41 Resp: 30493

Ion	Ratio	Lower	Upper
41	100		
69	75.0	63.0	94.6
39	67.1	47.5	71.3





#49
1,4-Dioxane
Concen: 375.106 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

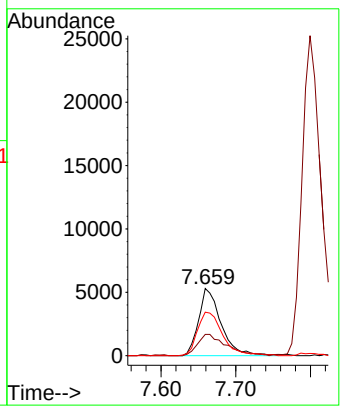
Tgt Ion: 88 Resp: 1104

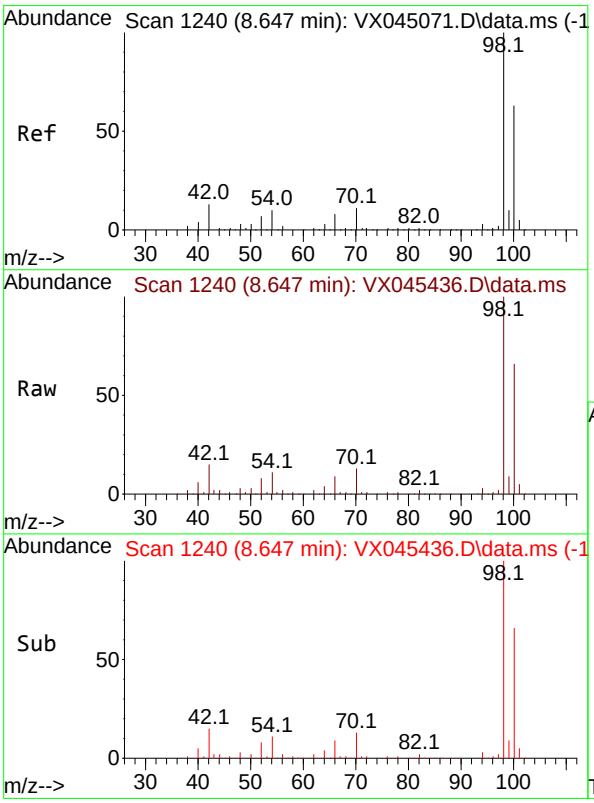
Ion	Ratio	Lower	Upper
88	100		
43	40.4	28.7	43.1
58	72.8	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

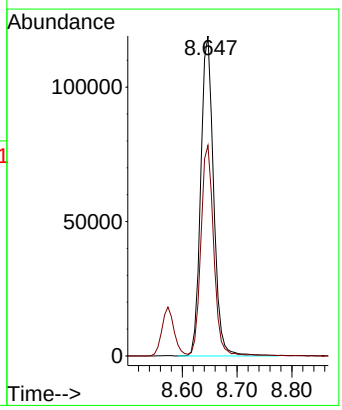


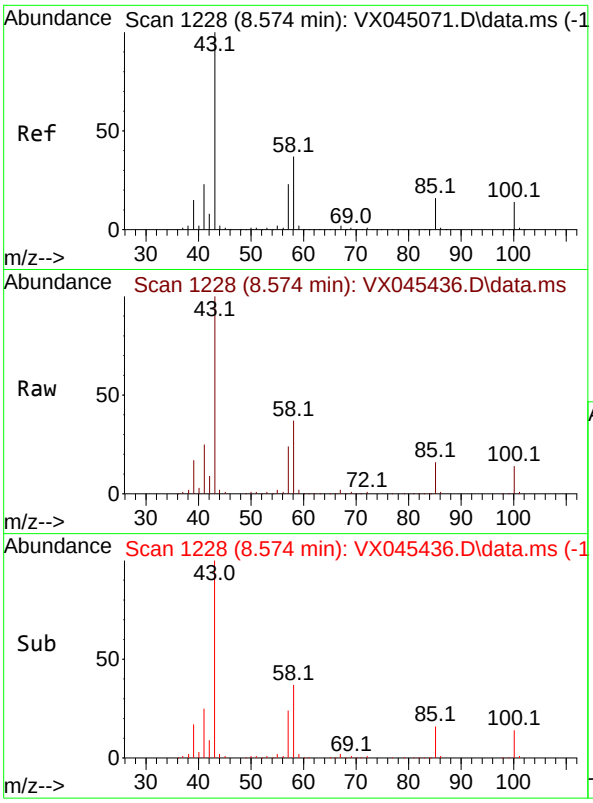


#50
Toluene-d8
Concen: 50.177 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 98 Resp: 193748

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.0	78.0

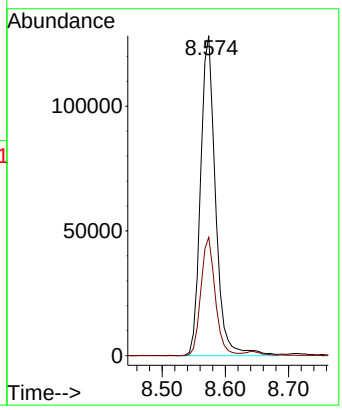




#51
4-Methyl-2-Pentanone
Concen: 113.420 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 21195

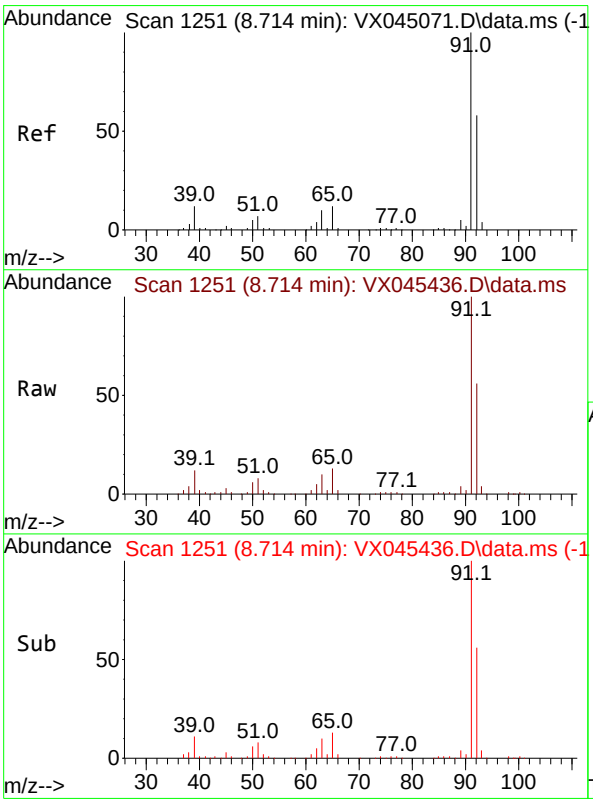
Ion	Ratio	Lower	Upper
43	100		
58	35.5	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

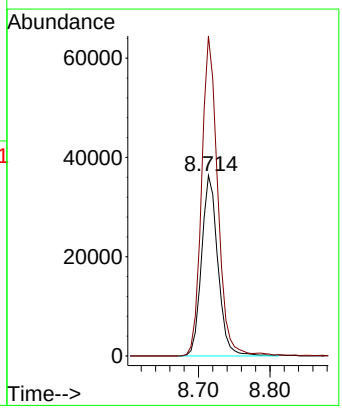
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

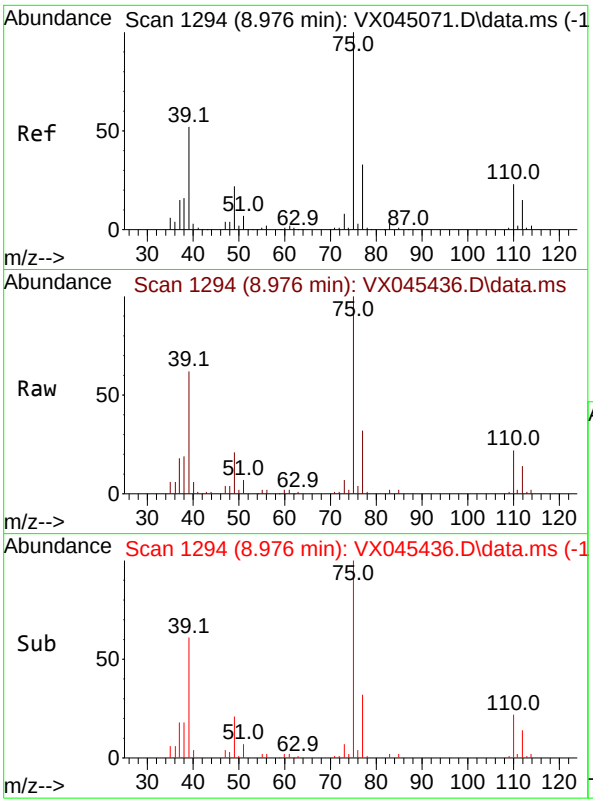


#52
Toluene
Concen: 21.371 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 92 Resp: 57834

Ion	Ratio	Lower	Upper
92	100		
91	175.6	138.9	208.3

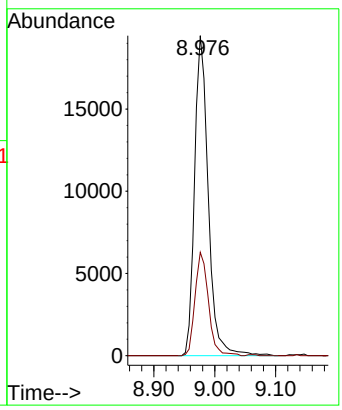




#53
t-1,3-Dichloropropene
Concen: 22.080 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 3034

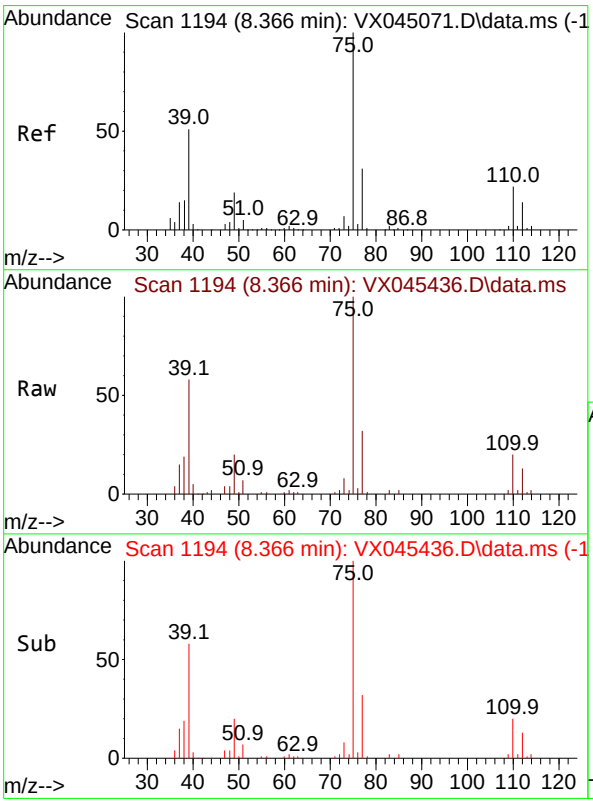
Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

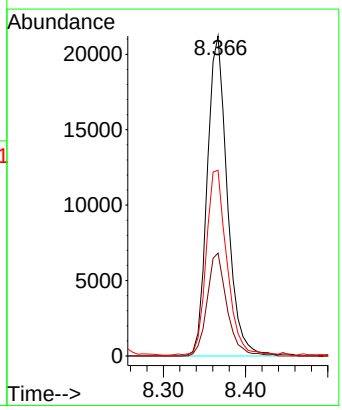
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

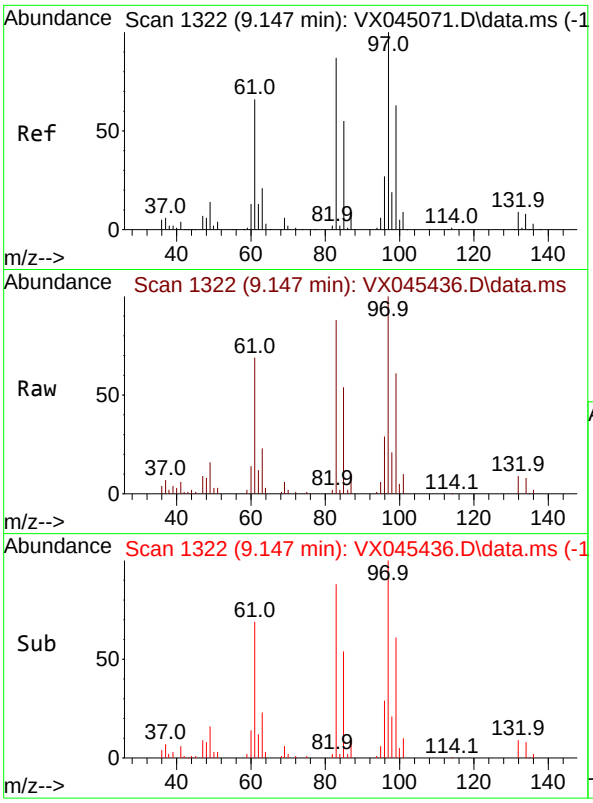


#54
cis-1,3-Dichloropropene
Concen: 22.410 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 35919

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	57.5	40.7	61.1

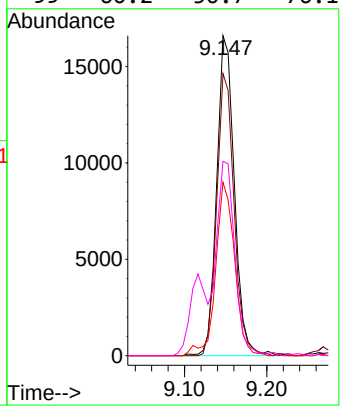




#55
1,1,2-Trichloroethane
Concen: 22.259 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 97 Resp: 2479

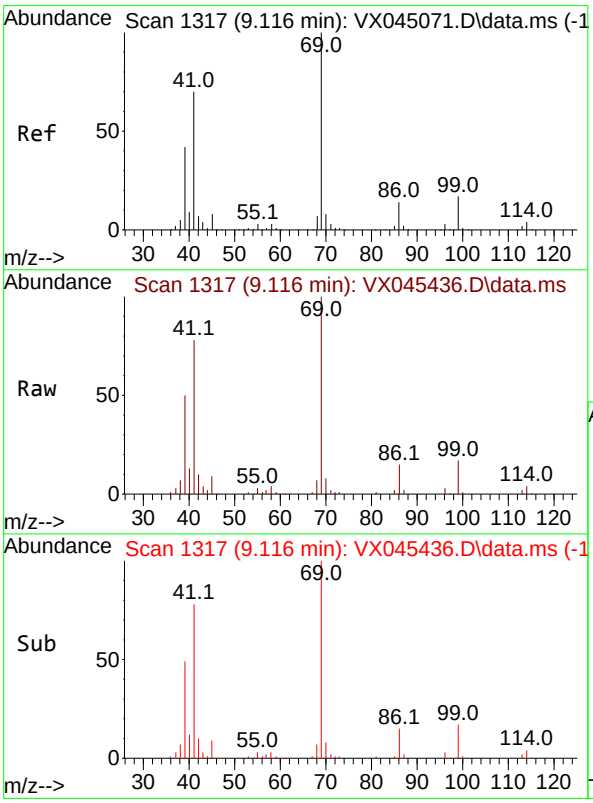
Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.4	104.2
85	54.2	44.1	66.1
99	60.2	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

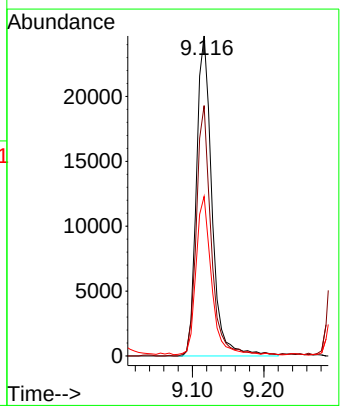
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

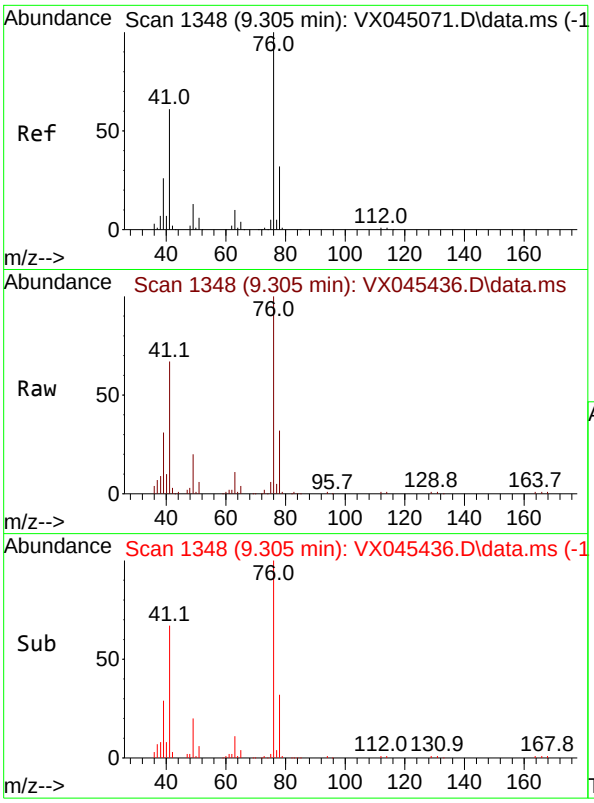


#56
Ethyl methacrylate
Concen: 21.880 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 69 Resp: 37053

Ion	Ratio	Lower	Upper
69	100		
41	75.3	57.0	85.4
39	49.1	34.2	51.4

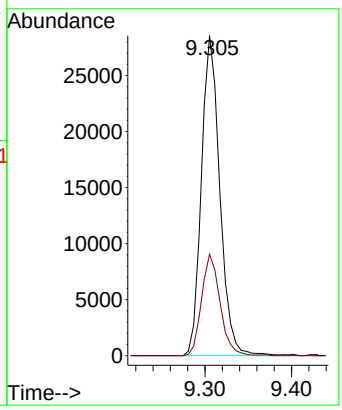




#57
1,3-Dichloropropane
Concen: 21.857 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 76 Resp: 4213

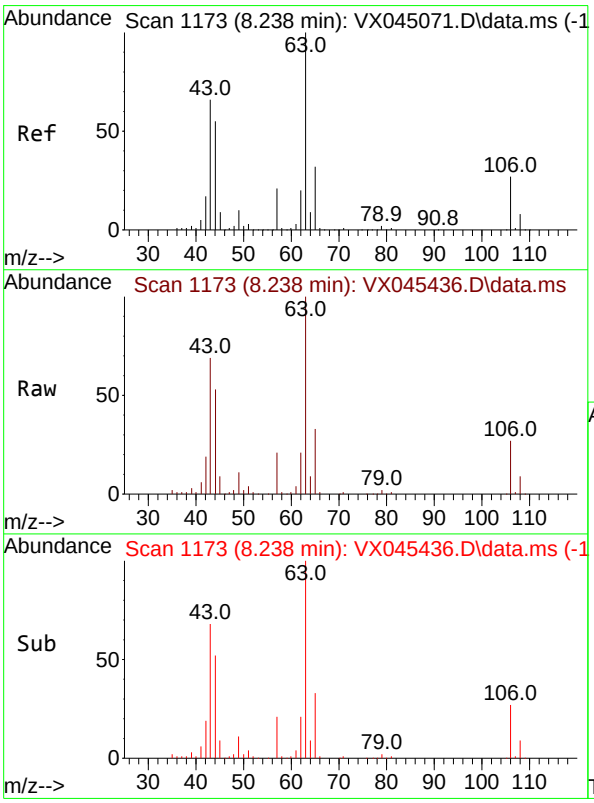
Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

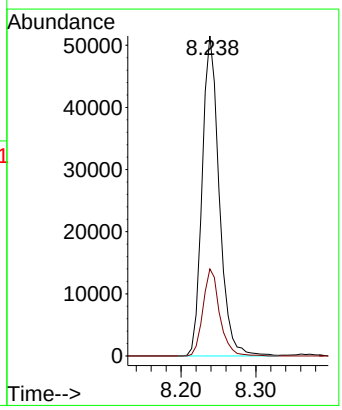
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

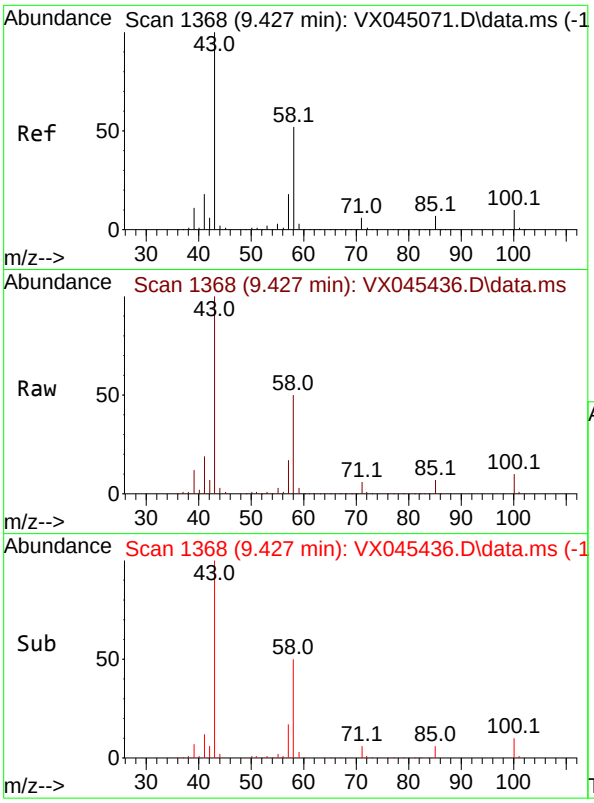


#58
2-Chloroethyl Vinyl ether
Concen: 98.707 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 63 Resp: 81540

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.5	32.3

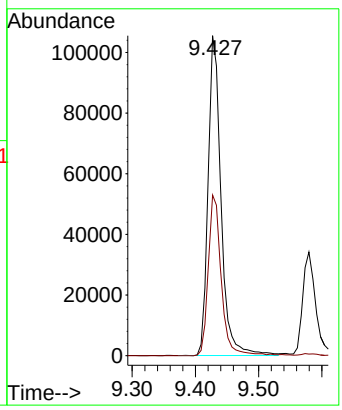




#59
2-Hexanone
Concen: 111.183 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 15053

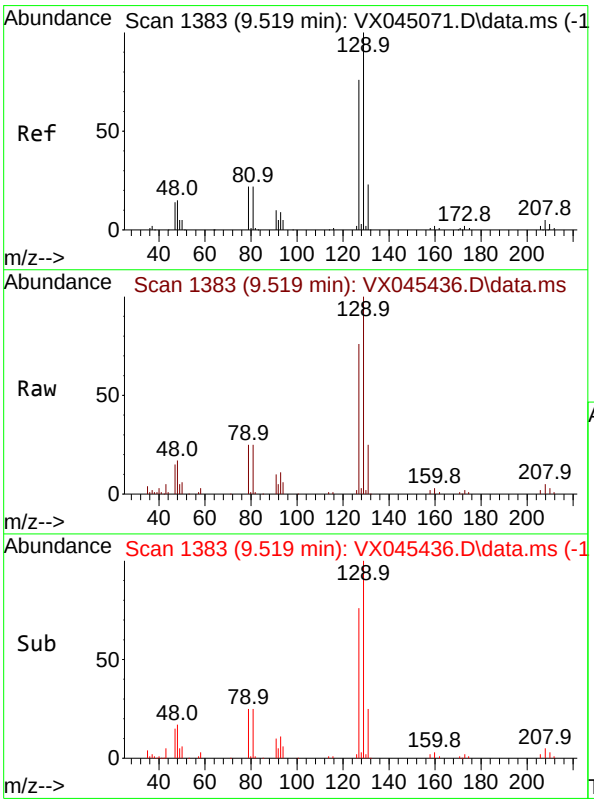
Ion	Ratio	Lower	Upper
43	100		
58	50.9	25.9	77.6



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

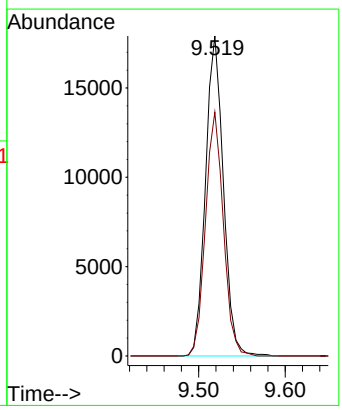
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

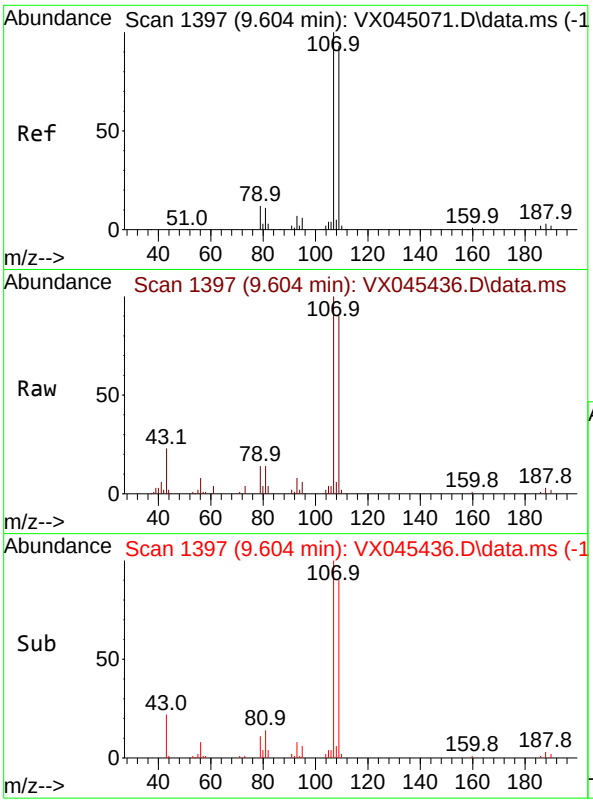


#60
Dibromochloromethane
Concen: 22.017 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:129 Resp: 25647

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.5	115.5

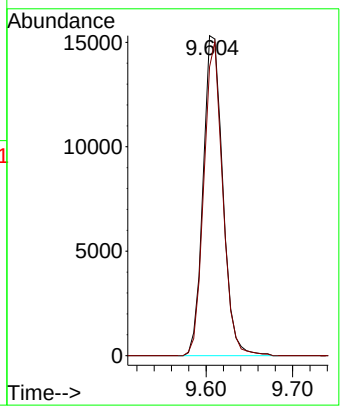




#61
1,2-Dibromoethane
Concen: 21.706 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:107 Resp: 2414

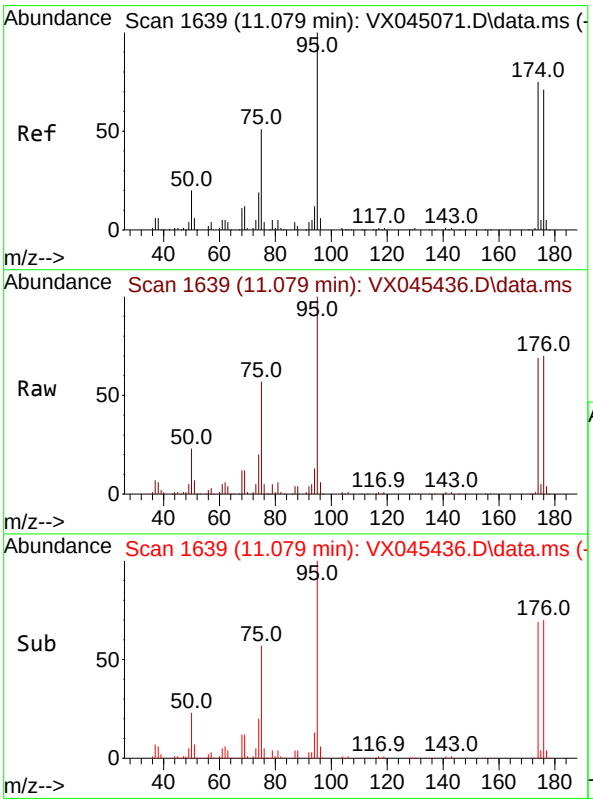
Ion	Ratio	Lower	Upper
107	100		
109	94.1	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

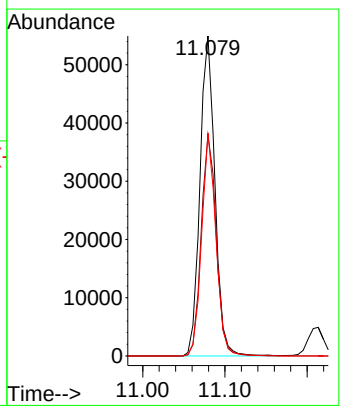
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

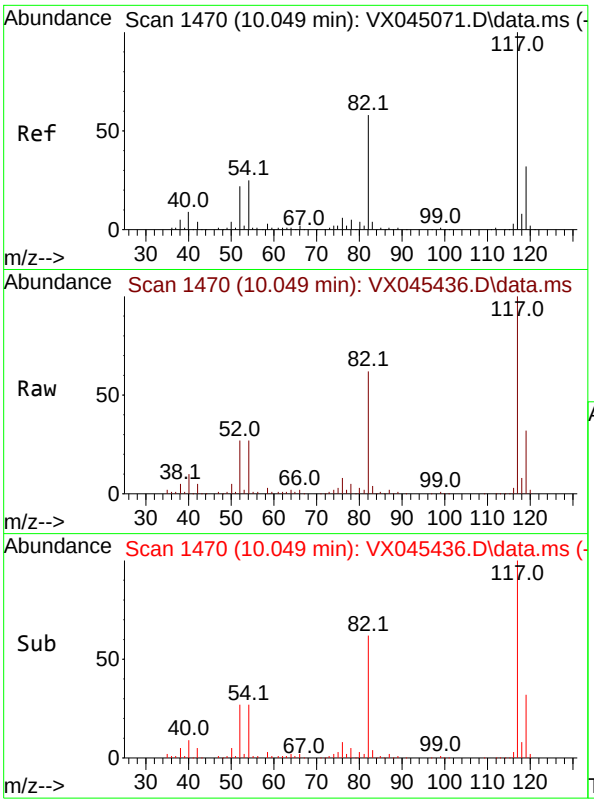


#62
4-Bromofluorobenzene
Concen: 54.311 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 95 Resp: 69492

Ion	Ratio	Lower	Upper
95	100		
174	69.4	0.0	148.2
176	66.3	0.0	141.4

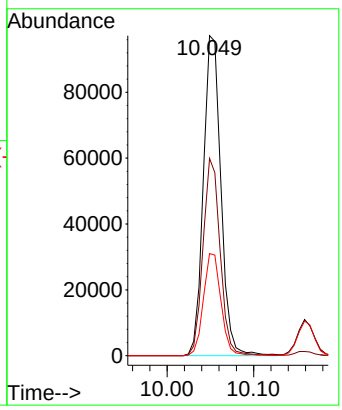




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:117 Resp: 13709

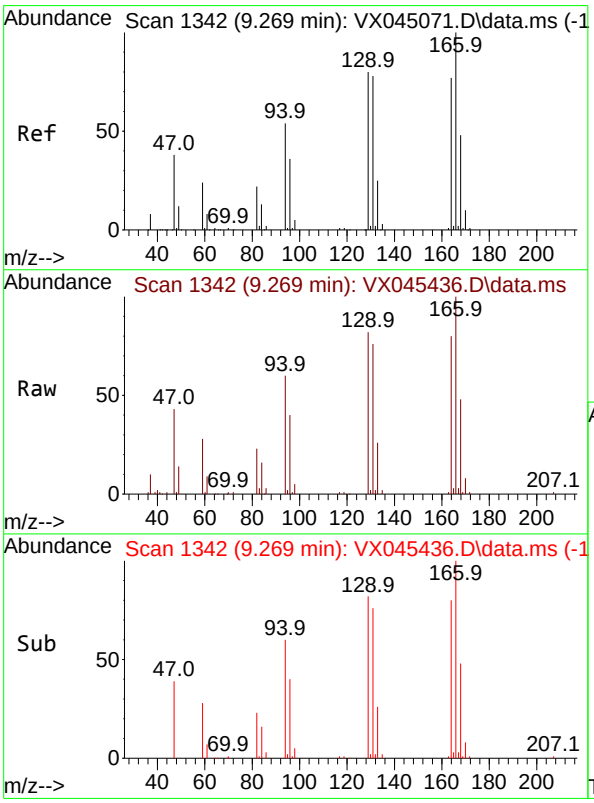
Ion	Ratio	Lower	Upper
117	100		
82	61.6	46.3	69.5
119	31.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

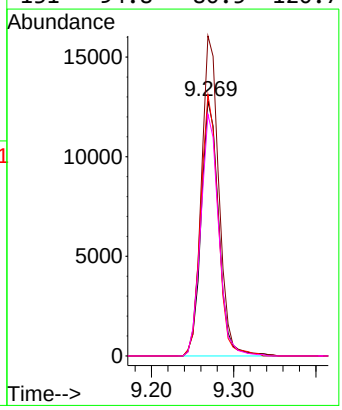
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

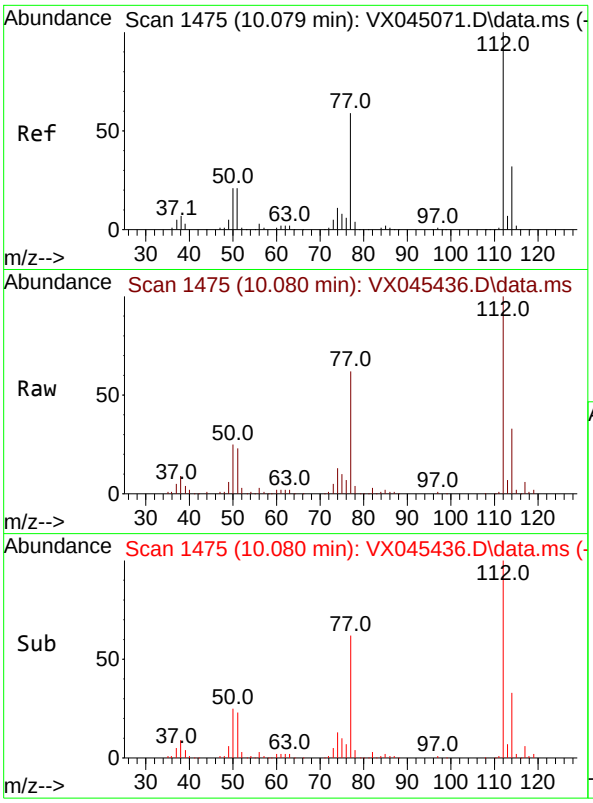


#64
Tetrachloroethene
Concen: 21.606 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:164 Resp: 18971

Ion	Ratio	Lower	Upper
164	100		
166	125.6	103.6	155.4
129	102.4	82.7	124.1
131	94.8	80.5	120.7

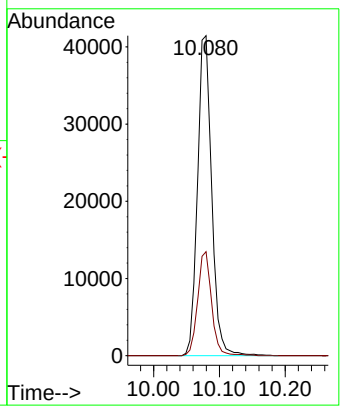




#65
Chlorobenzene
Concen: 21.369 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:112 Resp: 6199

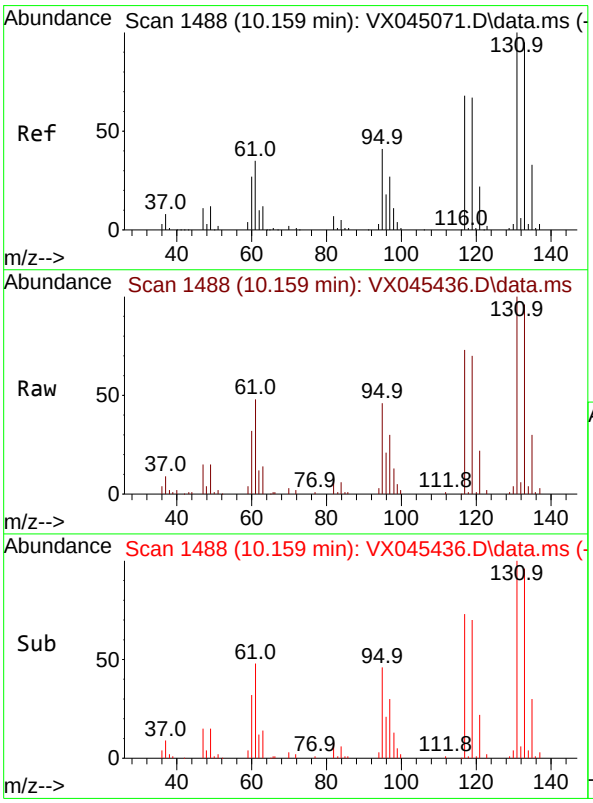
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

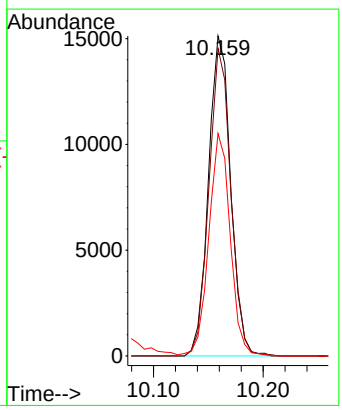
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

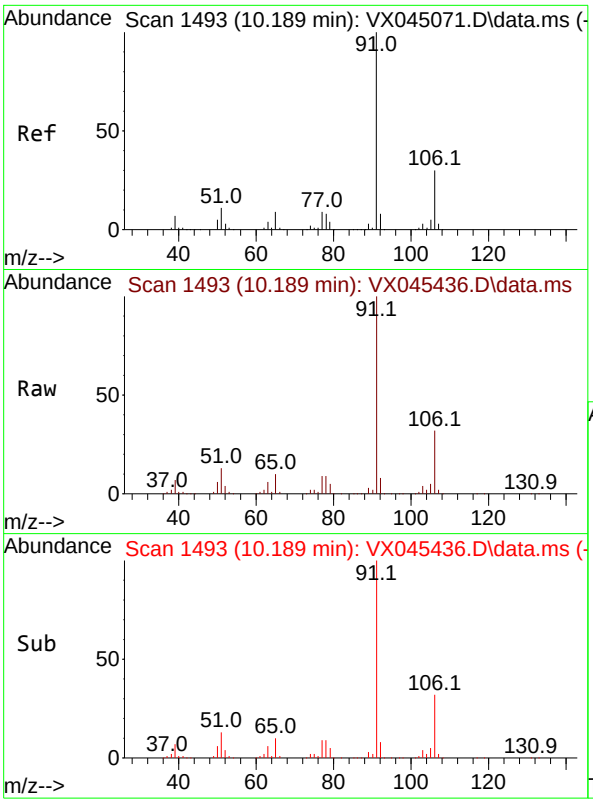


#66
1,1,1,2-Tetrachloroethane
Concen: 22.016 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:131 Resp: 21269

Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.6	145.9
119	66.9	33.9	101.7





#67
Ethyl Benzene
Concen: 21.631 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

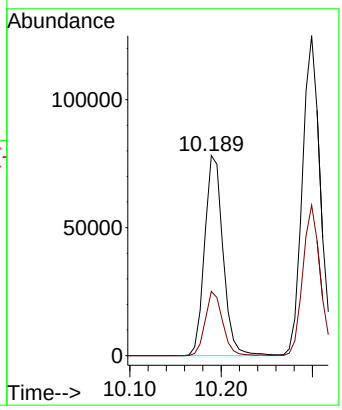
Tgt Ion: 91 Resp: 10933

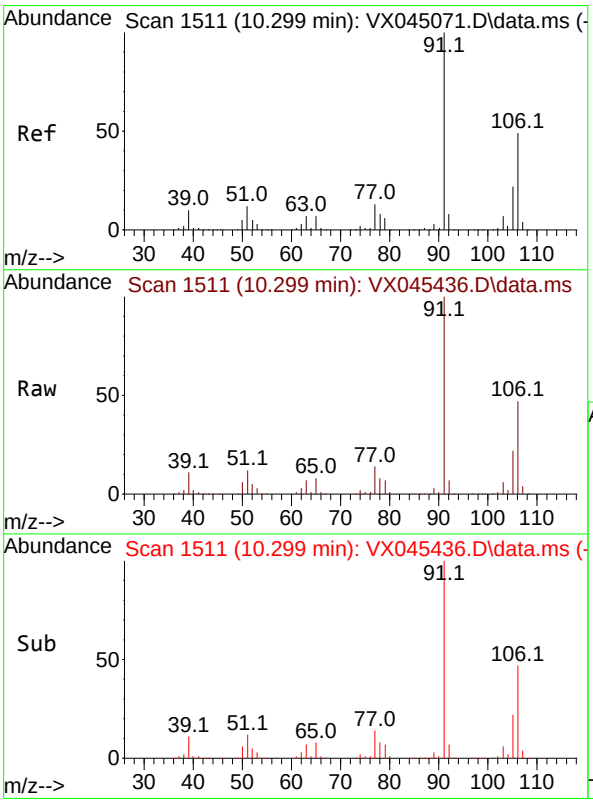
Ion	Ratio	Lower	Upper
91	100		
106	32.1	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

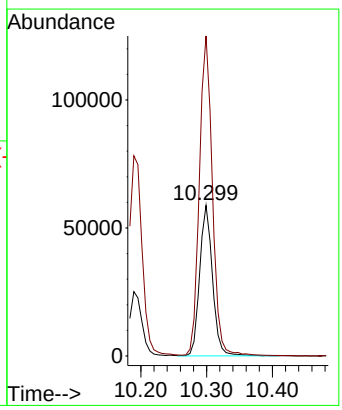


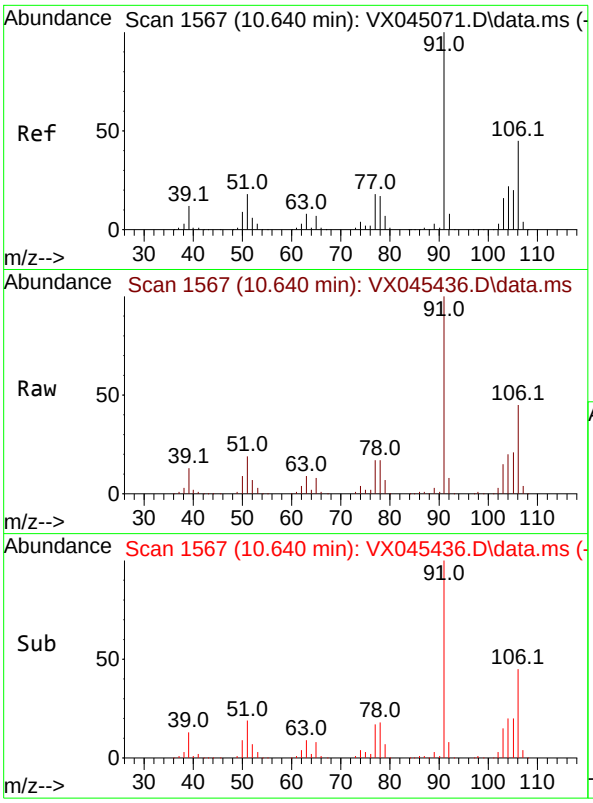


#68
m/p-Xylenes
Concen: 43.099 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:106 Resp: 79751

Ion	Ratio	Lower	Upper
106	100		
91	216.9	165.4	248.0

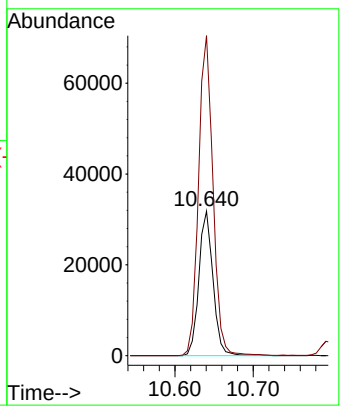




#69
o-Xylene
Concen: 21.391 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:106 Resp: 3992

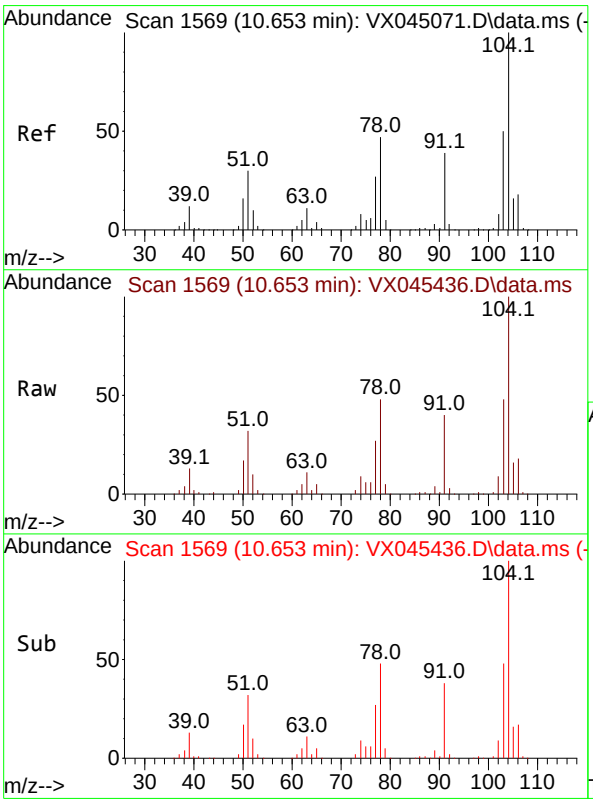
Ion	Ratio	Lower	Upper
106	100		
91	226.1	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

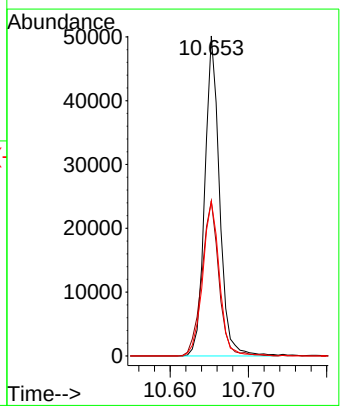
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

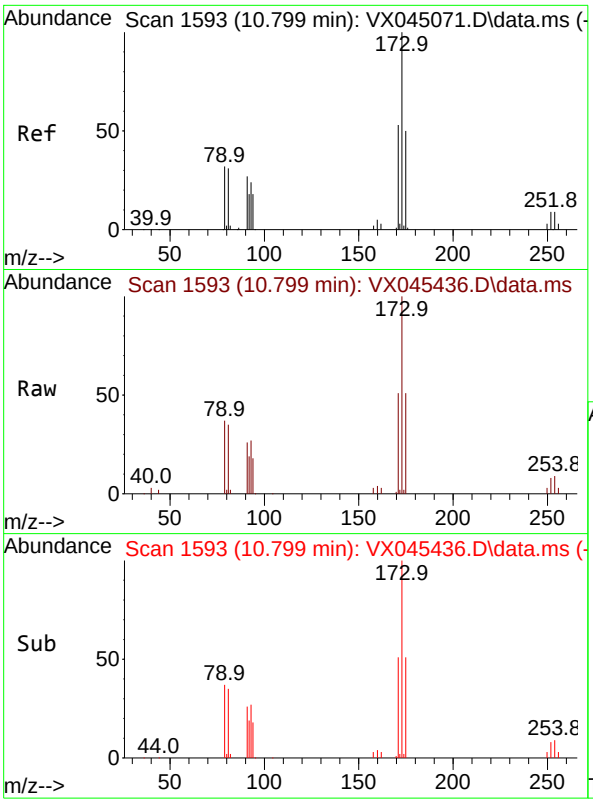


#70
Styrene
Concen: 21.659 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:104 Resp: 65405

Ion	Ratio	Lower	Upper
104	100		
78	56.0	42.2	63.4
103	54.9	43.8	65.8

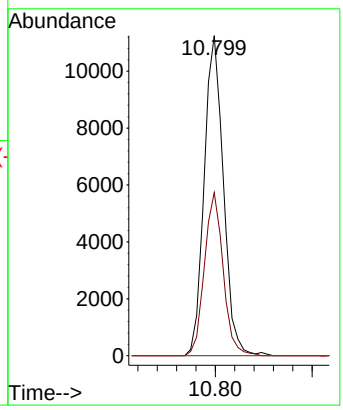




#71
Bromoform
Concen: 21.374 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:173 Resp: 1557

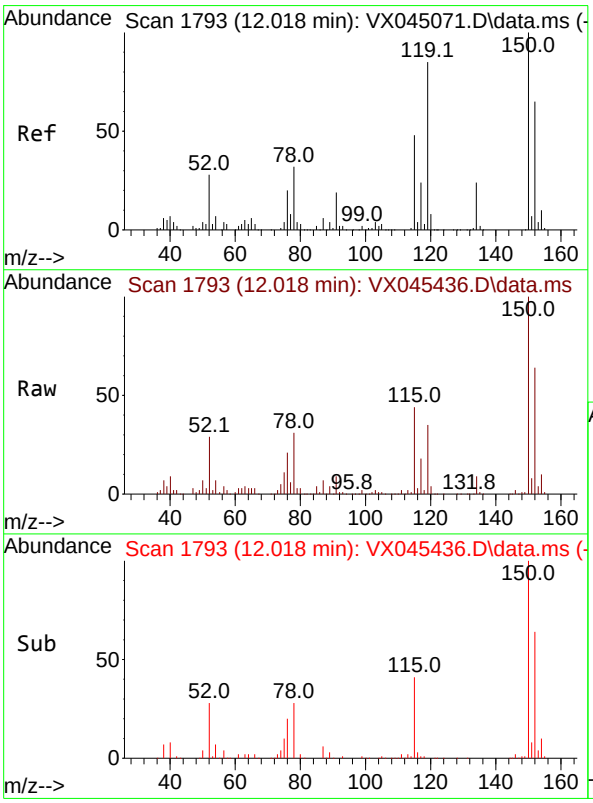
Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

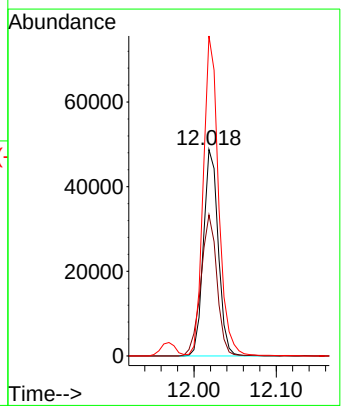
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

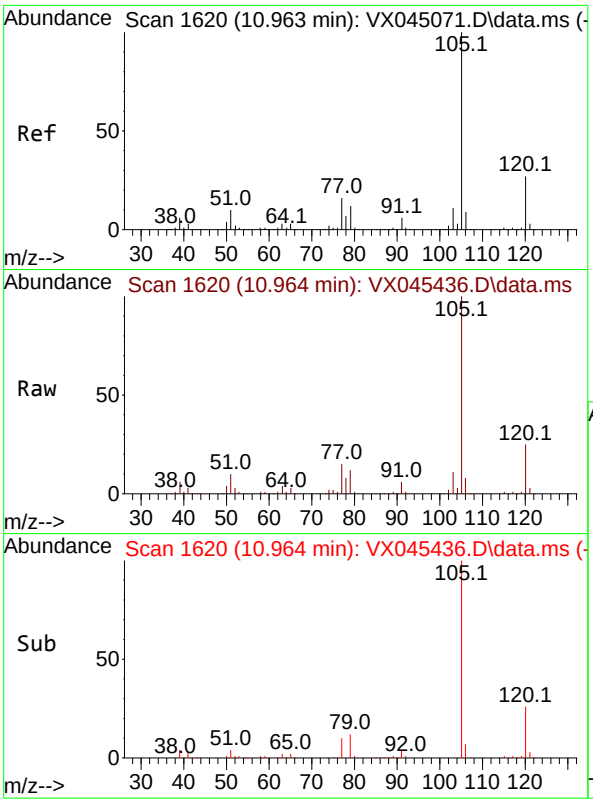


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:152 Resp: 60910

Ion	Ratio	Lower	Upper
152	100		
115	74.5	44.2	132.6
150	161.0	0.0	349.0

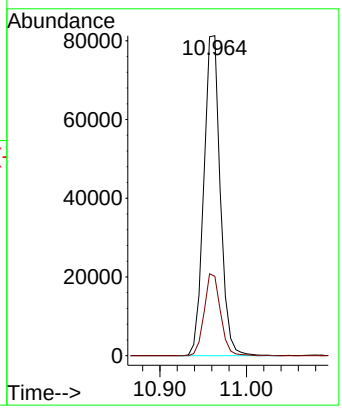




#73
Isopropylbenzene
Concen: 22.544 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:105 Resp: 10717

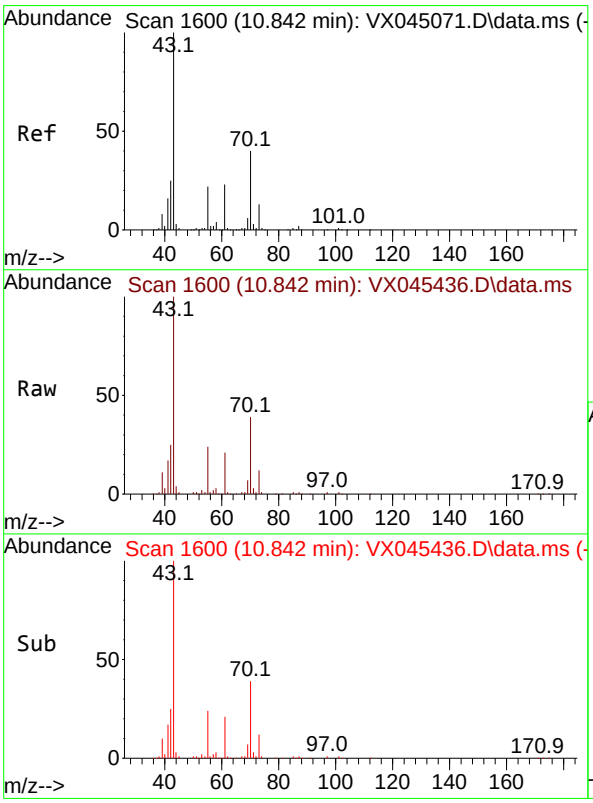
Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

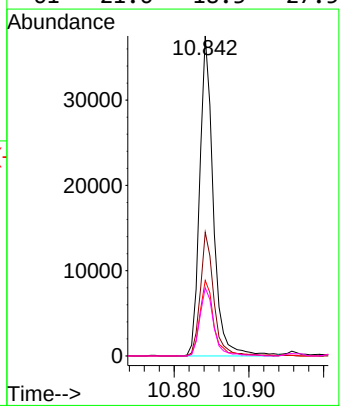
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

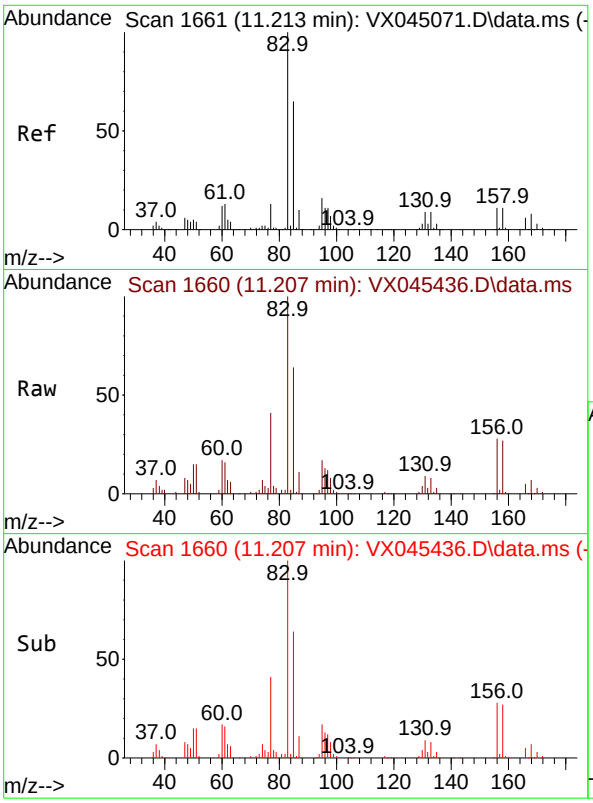


#74
N-amyl acetate
Concen: 21.246 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 47397

Ion	Ratio	Lower	Upper
43	100		
70	38.2	31.8	47.6
55	24.4	18.3	27.5
61	21.6	18.3	27.5

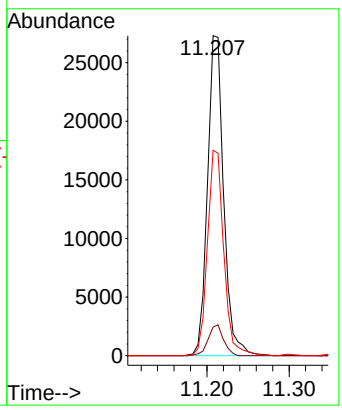




#75
1,1,2,2-Tetrachloroethane
Concen: 21.355 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 83 Resp: 3725

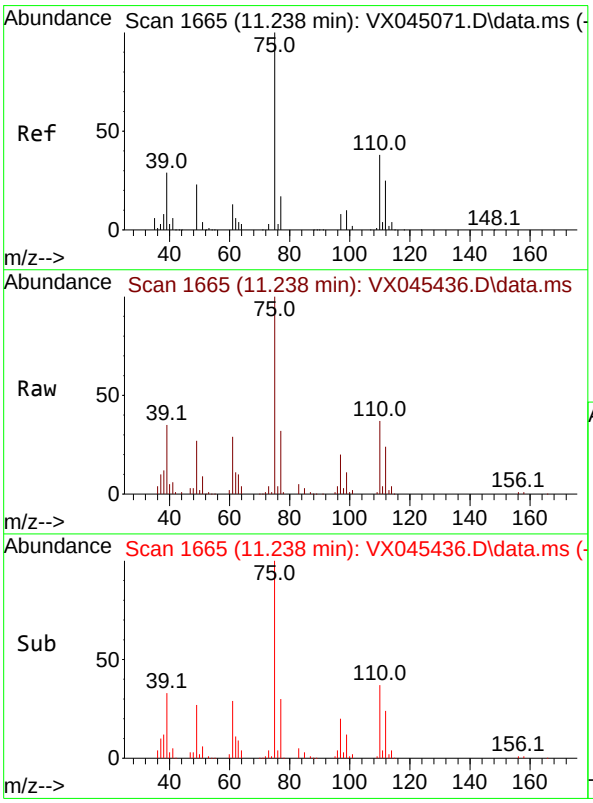
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.4
85	64.7	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

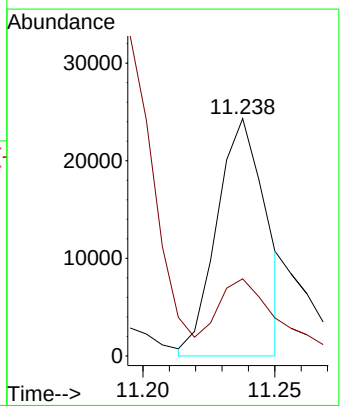
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

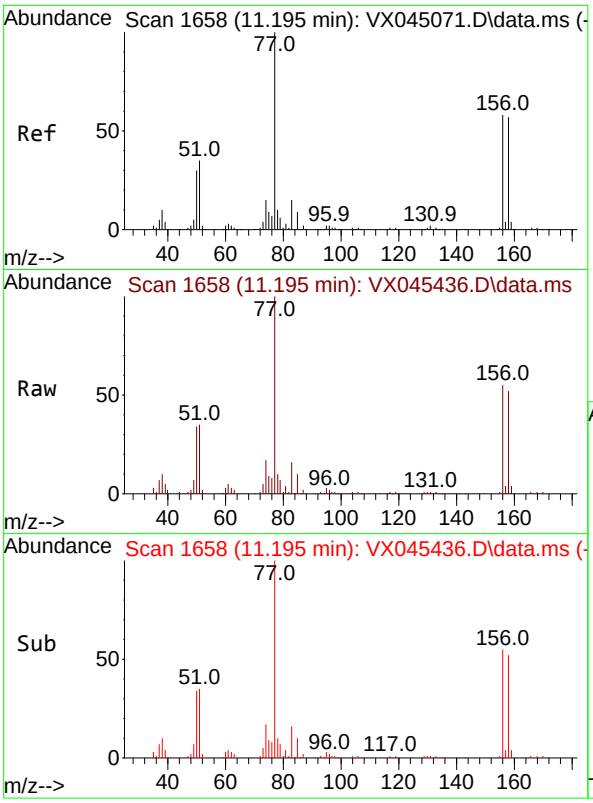


#76
1,2,3-Trichloropropane
Concen: 22.080 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 31303

Ion	Ratio	Lower	Upper
75	100		
77	40.3	20.7	62.1

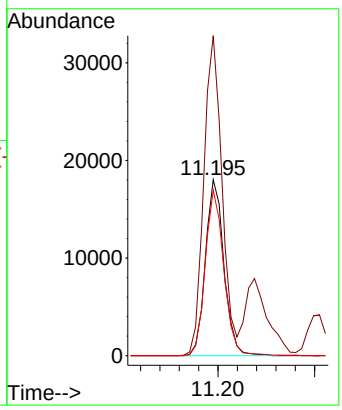




#77
Bromobenzene
Concen: 21.388 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:156 Resp: 2399

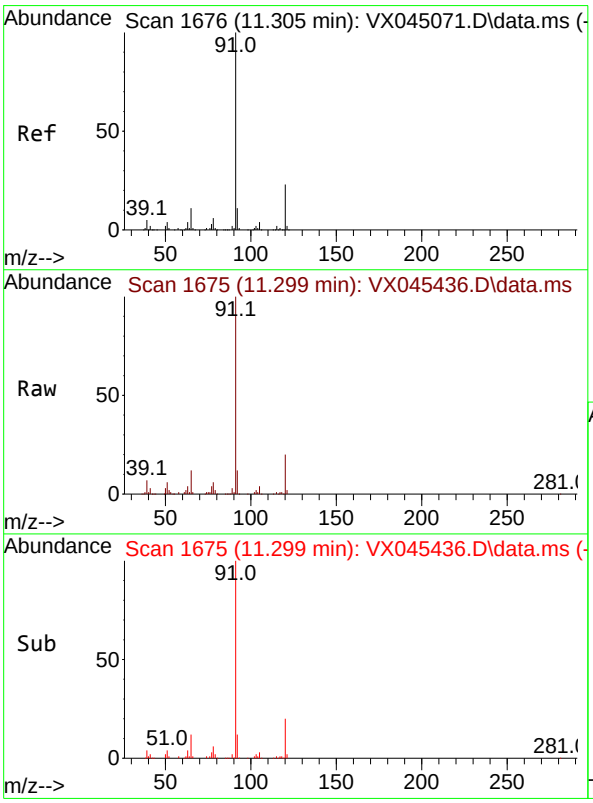
Ion	Ratio	Lower	Upper
156	100		
77	179.2	85.8	257.4
158	94.5	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

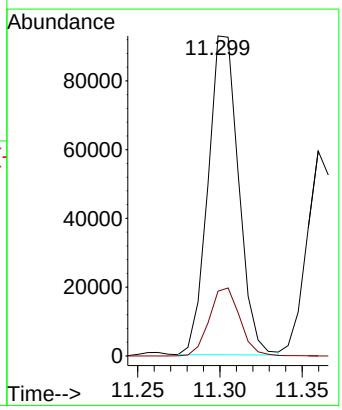
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

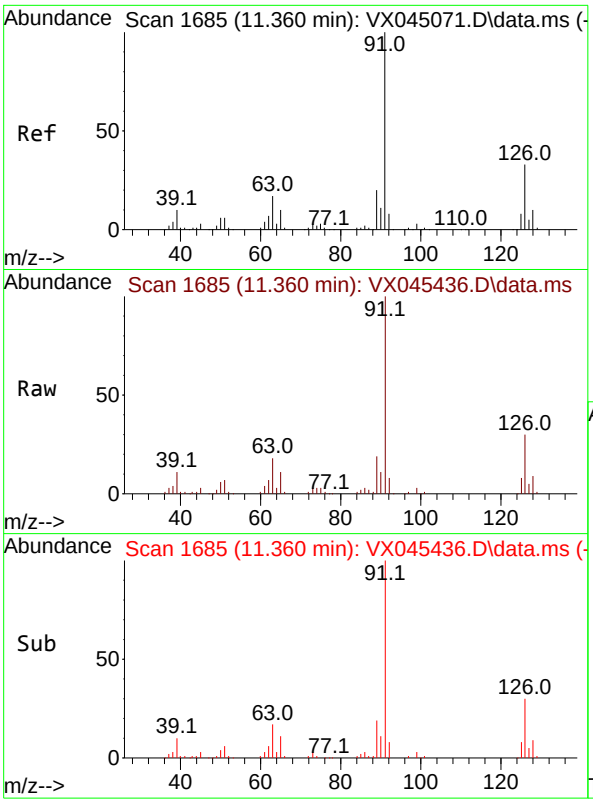


#78
n-propylbenzene
Concen: 22.372 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 91 Resp: 120148

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6

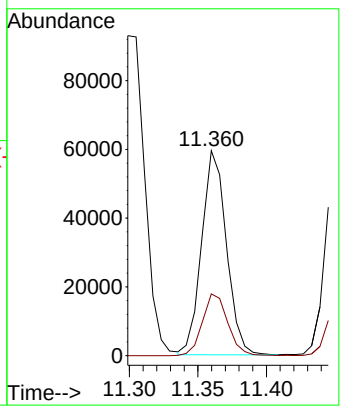




#79
2-Chlorotoluene
Concen: 21.861 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 91 Resp: 7477

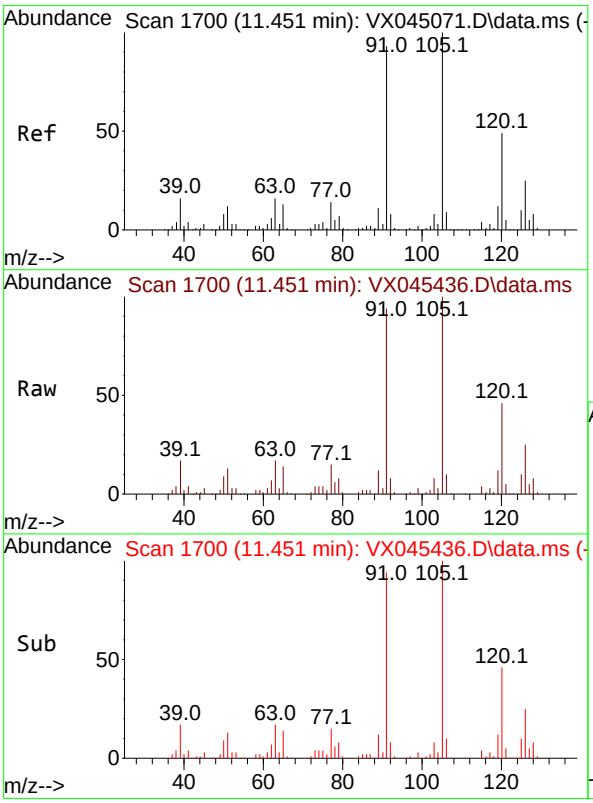
Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

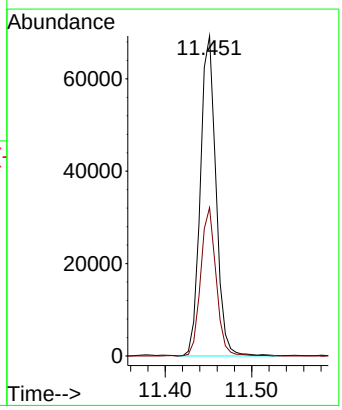
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

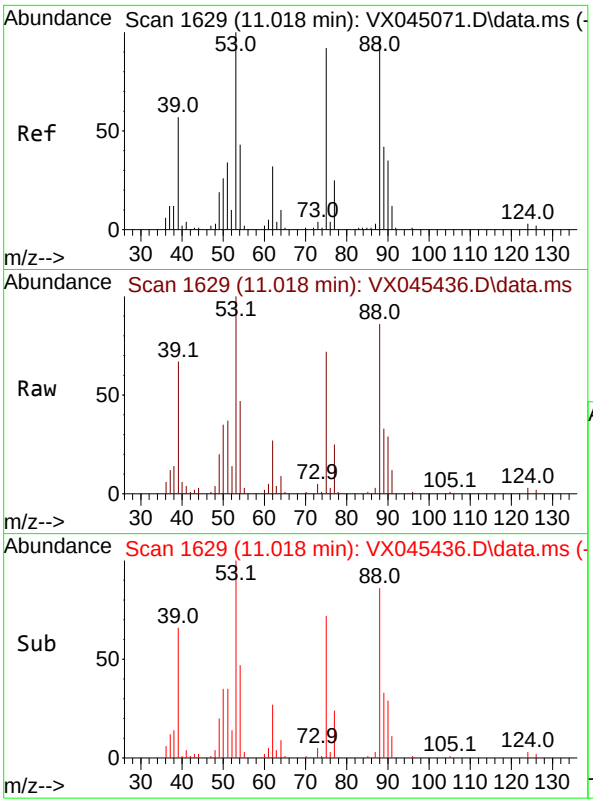


#80
1,3,5-Trimethylbenzene
Concen: 22.591 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:105 Resp: 86843

Ion	Ratio	Lower	Upper
105	100		
120	45.9	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 20.262 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

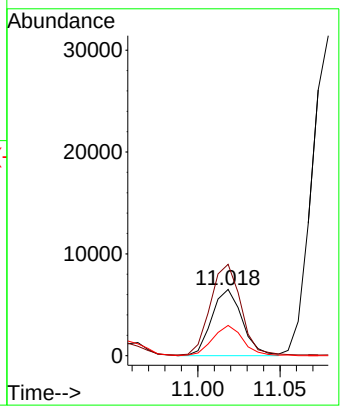
Tgt Ion: 75 Resp: 839

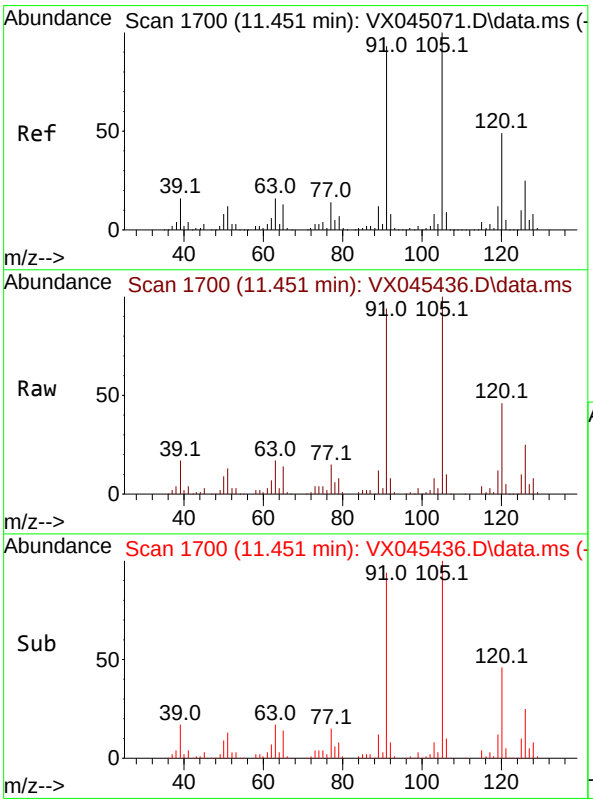
Ion	Ratio	Lower	Upper
75	100		
53	140.8	88.5	132.7
89	45.4	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

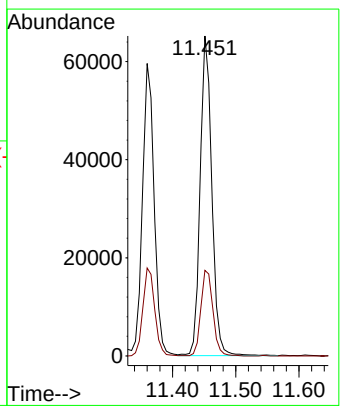


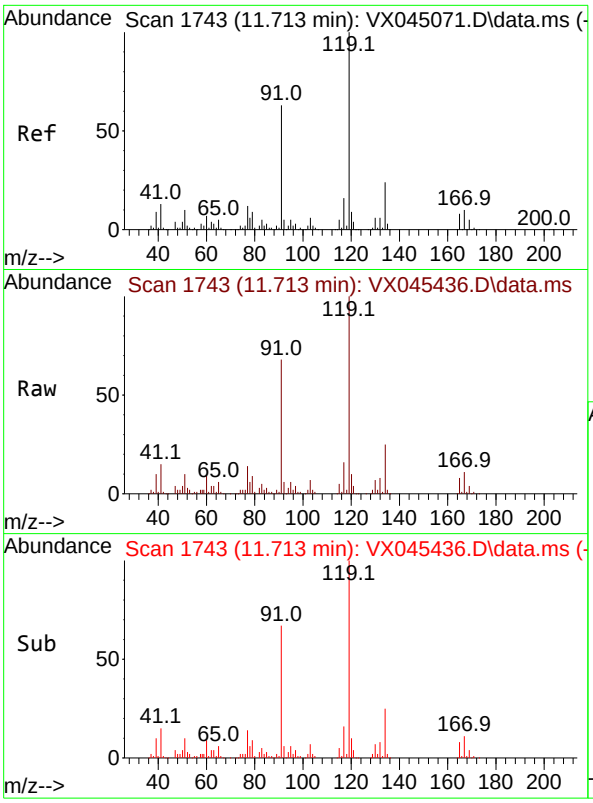


#82
4-Chlorotoluene
Concen: 22.439 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 91 Resp: 83643

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.1	42.4

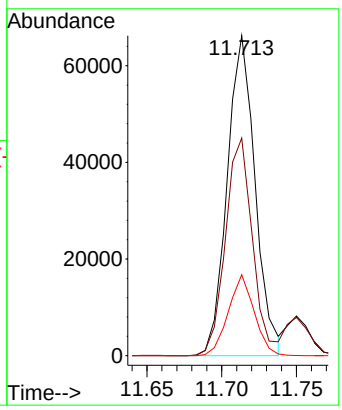




#83
tert-Butylbenzene
Concen: 21.802 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:119 Resp: 8611

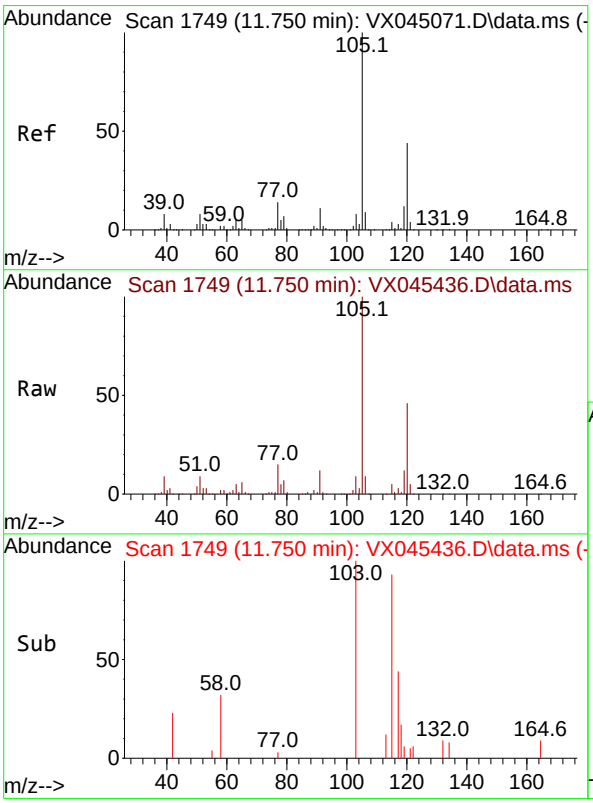
Ion	Ratio	Lower	Upper
119	100		
91	66.0	30.7	92.1
134	23.5	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

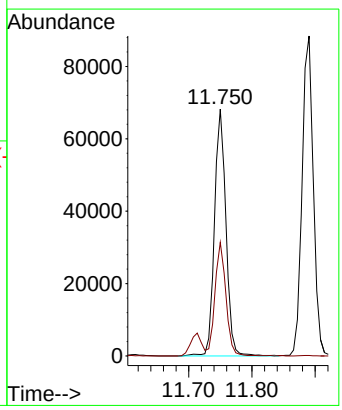
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

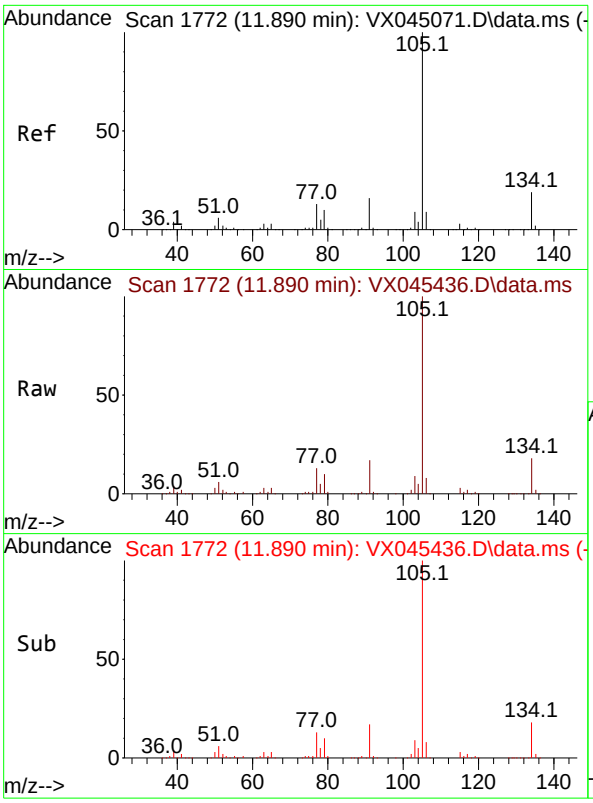


#84
1,2,4-Trimethylbenzene
Concen: 22.182 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:105 Resp: 85798

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

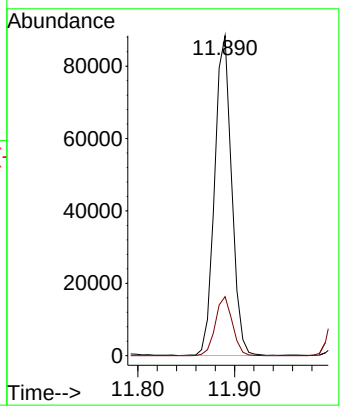




#85
sec-Butylbenzene
Concen: 22.760 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:105 Resp: 10768

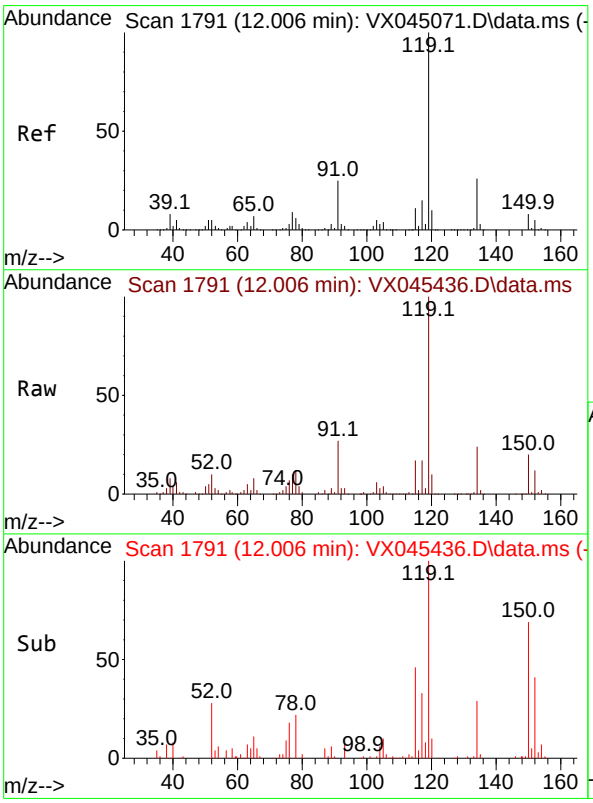
Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

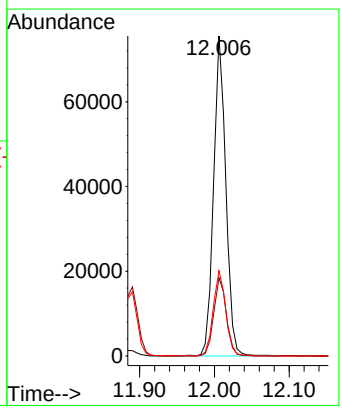
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

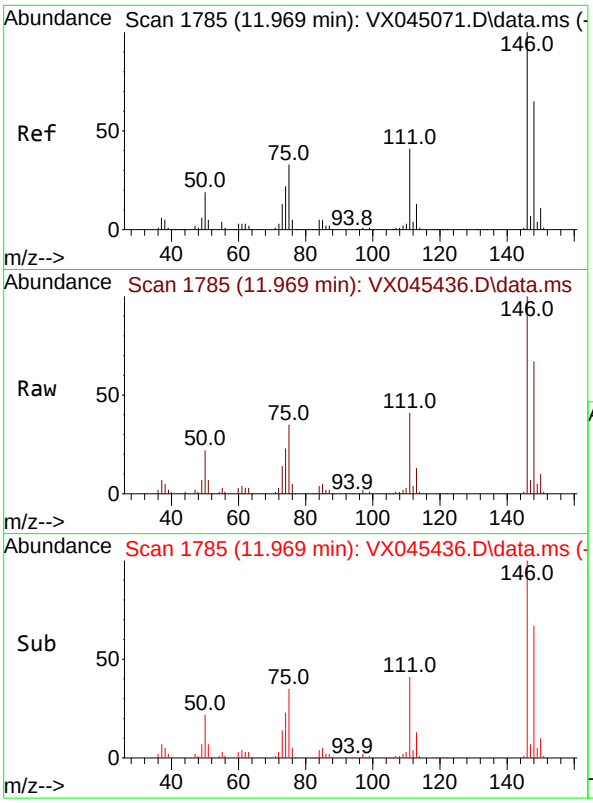


#86
p-Isopropyltoluene
Concen: 22.531 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:119 Resp: 86148

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.9	38.6
91	27.1	12.7	38.0

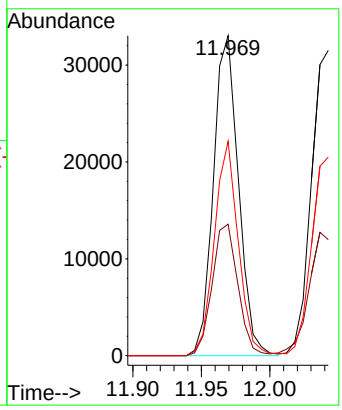




#87
1,3-Dichlorobenzene
Concen: 20.976 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:146 Resp: 4197

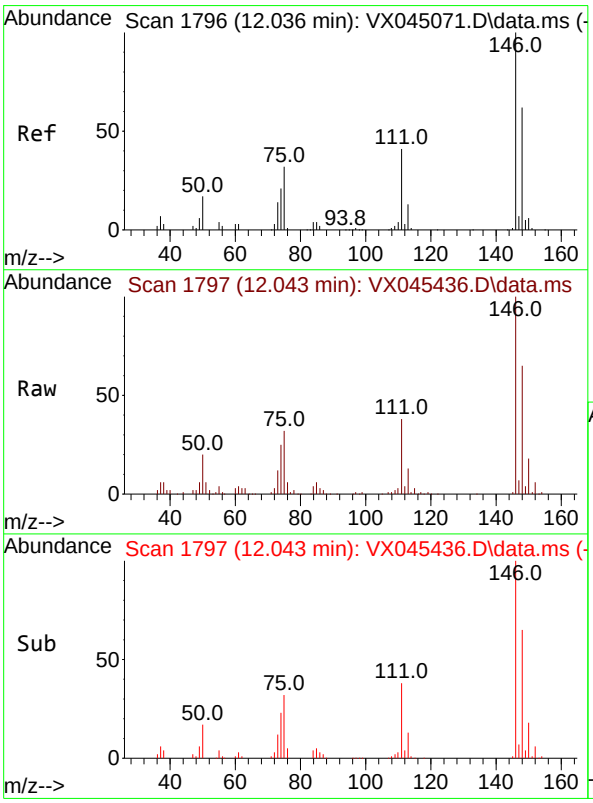
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.1	63.4
148	64.3	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

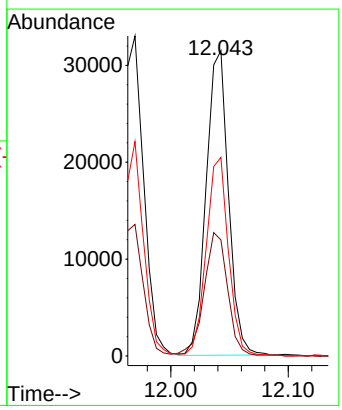
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

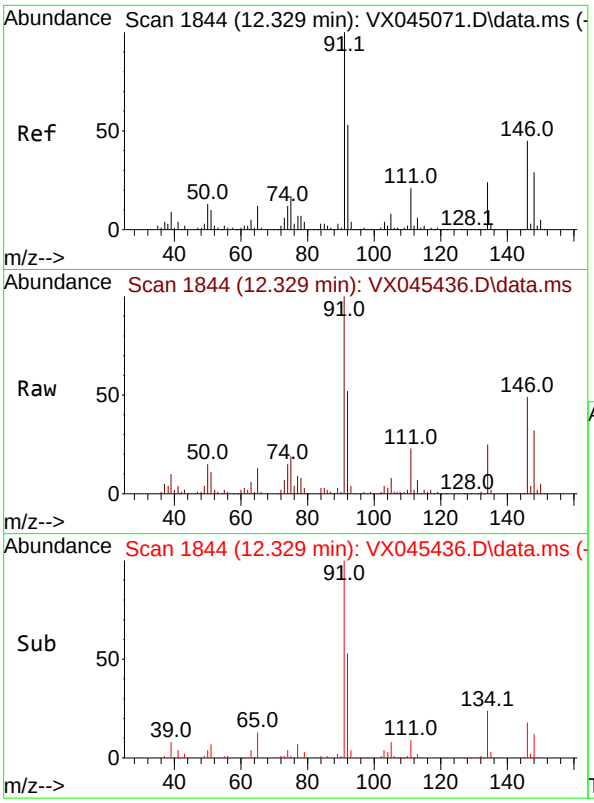


#88
1,4-Dichlorobenzene
Concen: 20.480 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:146 Resp: 41462

Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.2	60.5
148	65.2	31.9	95.9





#89
n-Butylbenzene
Concen: 22.079 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

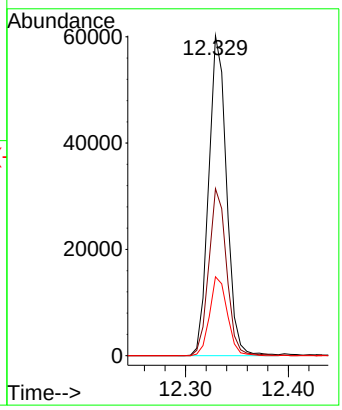
Tgt Ion: 91 Resp: 7270

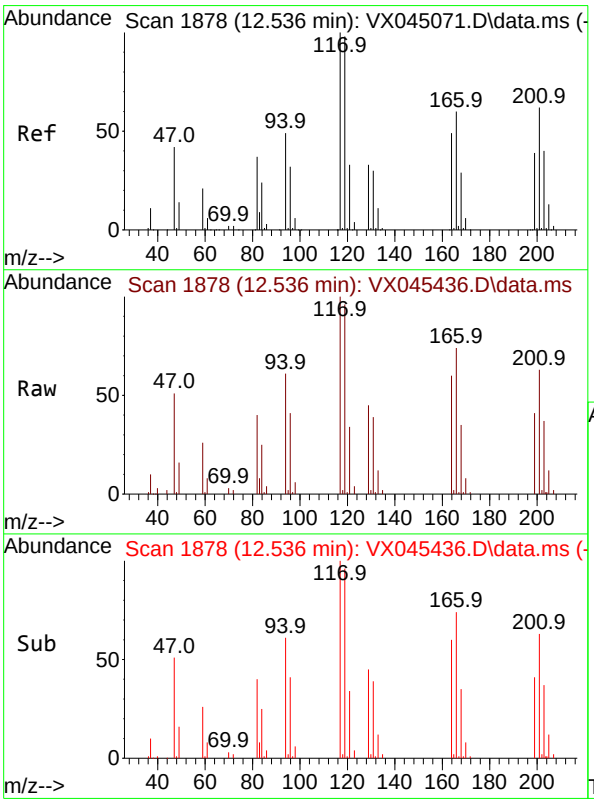
Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.7	80.0
134	24.4	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

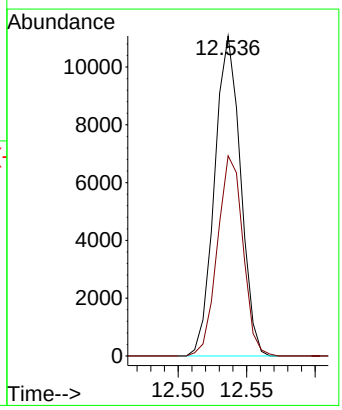


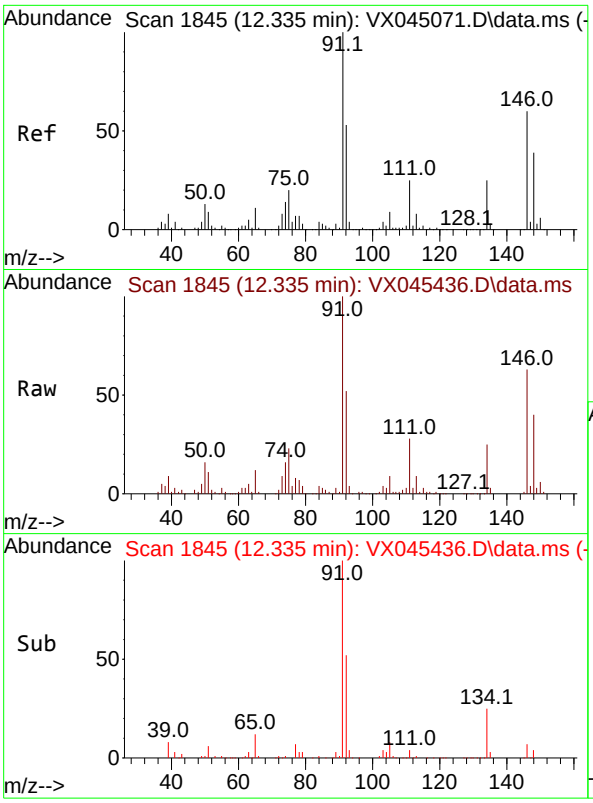


#90
Hexachloroethane
Concen: 21.109 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:117 Resp: 14599

Ion	Ratio	Lower	Upper
117	100		
201	61.6	31.9	95.9

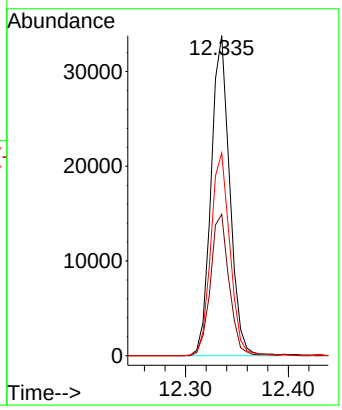




#91
1,2-Dichlorobenzene
Concen: 21.142 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:146 Resp: 4244

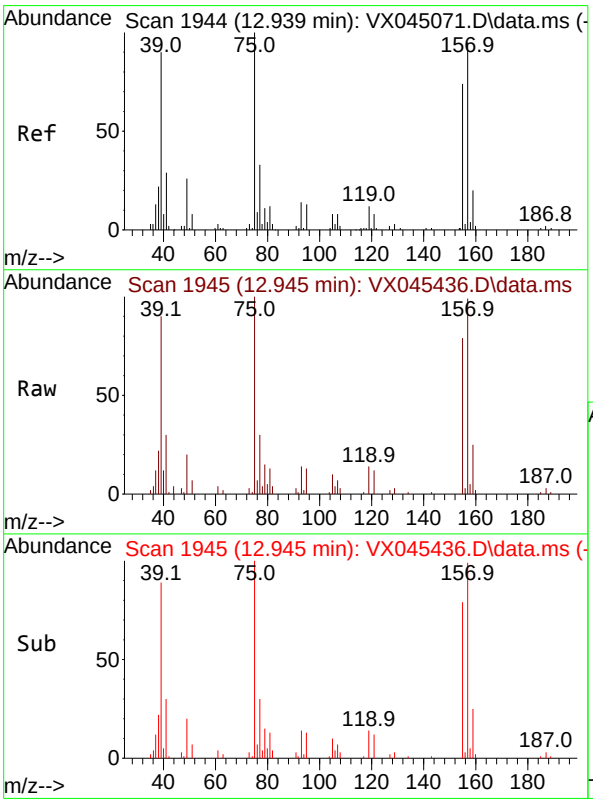
Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.6	65.0
148	65.2	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

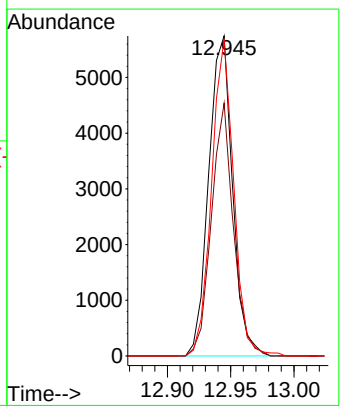
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

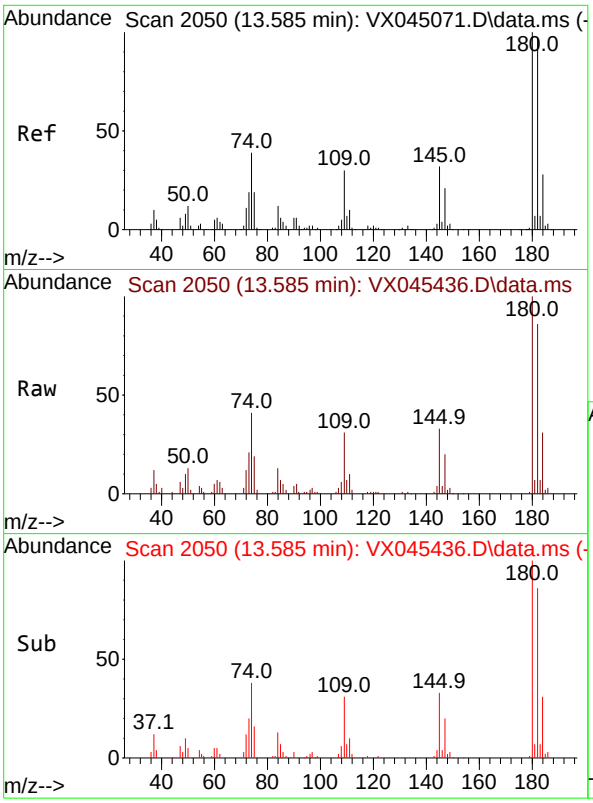


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.055 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 7496

Ion	Ratio	Lower	Upper
75	100		
155	73.3	39.6	118.7
157	92.2	51.1	153.4

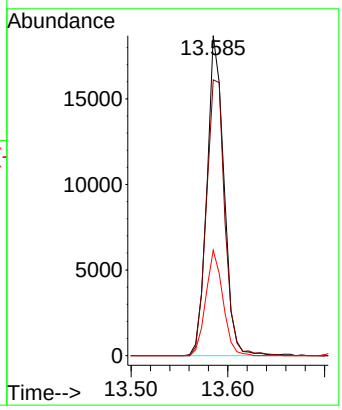




#93
1,2,4-Trichlorobenzene
Concen: 20.120 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:180 Resp: 2299

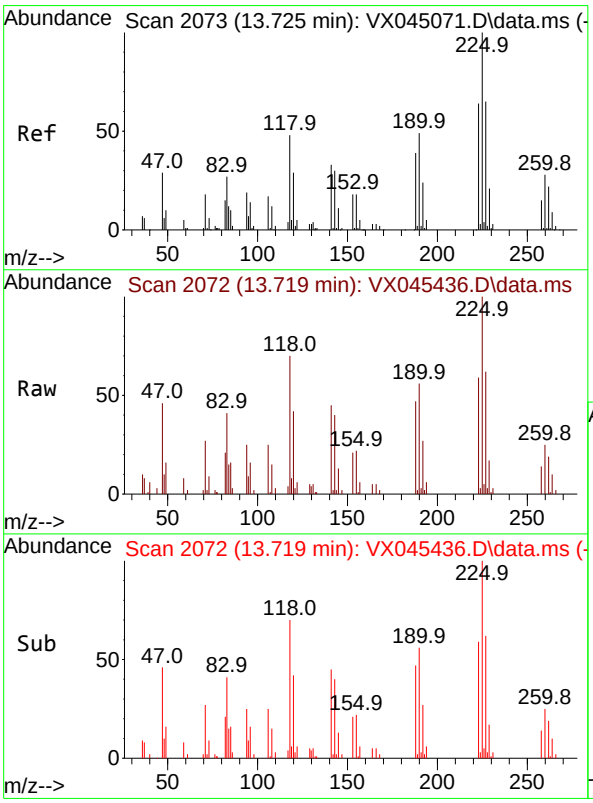
Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.3	141.9
145	33.0	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations APPROVED

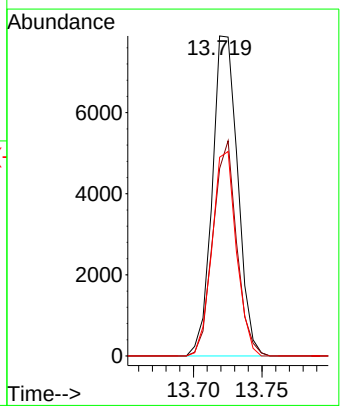
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025

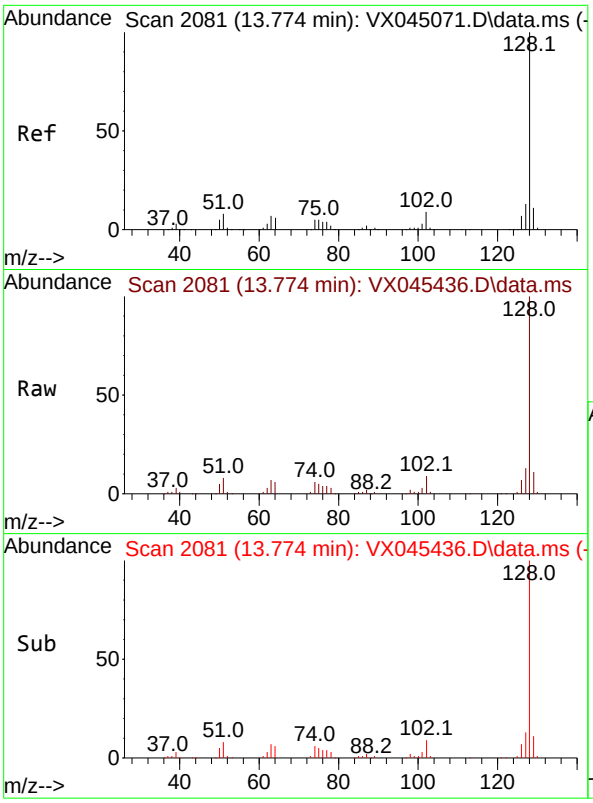


#94
Hexachlorobutadiene
Concen: 21.715 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:225 Resp: 10176

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.9	95.7
227	61.2	31.4	94.0

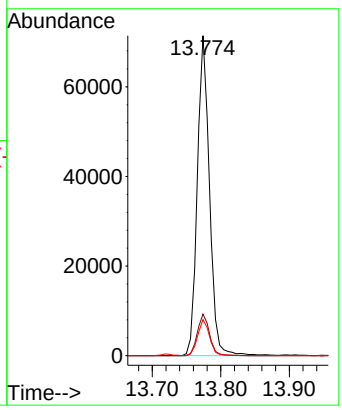




#95
Naphthalene
Concen: 20.117 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:128 Resp: 8834

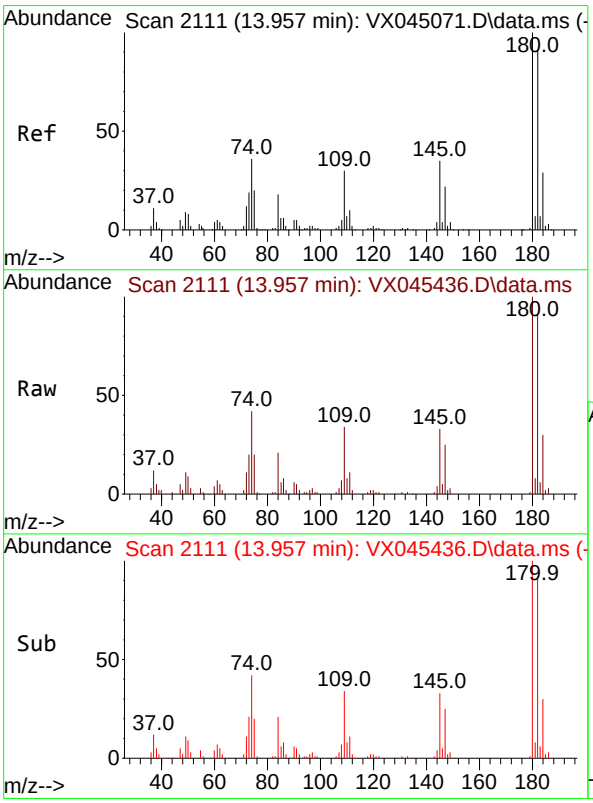
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.1	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Manual Integrations
APPROVED

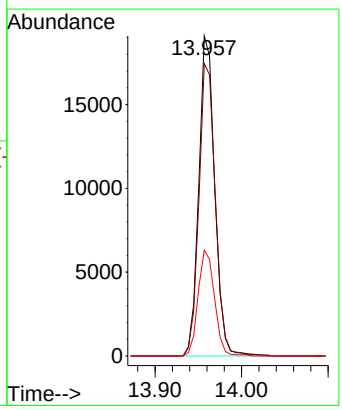
Reviewed By :John Carlone 03/26/2025
Supervised By :Mahesh Dadoda 03/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.276 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:180 Resp: 24449

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.5	142.6
145	34.0	17.0	50.9



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0326WBS01	SDG No.:	Q1629
Lab Sample ID:	VX0326WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045460.D	1		03/26/25 11:18	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.0		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	15.2		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	15.3		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.0		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.3		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.8		0.23	0.75	1.00	ug/L
67-64-1	Acetone	100		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	12.8		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	27.9		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	18.2		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	21.0		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	21.1		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.5		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.1		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.3		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.5		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.7		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0326WBS01	SDG No.:	Q1629
Lab Sample ID:	VX0326WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045460.D	1		03/26/25 11:18	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.4		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	21.1		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.4		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.4		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.4		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.8		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.5		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.9		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.2		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.9		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.2		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.9		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.7		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	48.3		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	86100	5.55				
540-36-3	1,4-Difluorobenzene	156000	6.757				
3114-55-4	Chlorobenzene-d5	137000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	61300	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0326WBS01	SDG No.:	Q1629
Lab Sample ID:	VX0326WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045460.D	1		03/26/25 11:18	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	86104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	155857	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	136930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61262	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	73660	53.782	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.560%			
35) Dibromofluoromethane	5.379	113	53135	50.985	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.960%			
50) Toluene-d8	8.647	98	182631	48.337	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.680%			
62) 4-Bromofluorobenzene	11.079	95	66047	52.753	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	19532	18.021	ug/l	91
3) Chloromethane	1.307	50	20129	15.176	ug/l	92
4) Vinyl Chloride	1.374	62	20125	15.295	ug/l	98
5) Bromomethane	1.593	94	9600	18.559	ug/l	99
6) Chloroethane	1.666	64	12116	19.963	ug/l	92
7) Trichlorofluoromethane	1.874	101	31955	18.345	ug/l	99
8) Diethyl Ether	2.130	74	11324	16.621	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	21611	21.595	ug/l	99
10) Methyl Iodide	2.441	142	23647	18.908	ug/l	95
11) Tert butyl alcohol	2.977	59	20108	77.510	ug/l	97
12) 1,1-Dichloroethene	2.306	96	18823	17.790	ug/l	88
13) Acrolein	2.239	56	46057	153.580	ug/l	100
14) Allyl chloride	2.654	41	36901	19.593	ug/l	94
15) Acrylonitrile	3.062	53	69441	99.873	ug/l	98
16) Acetone	2.386	43	64578	101.624	ug/l	99
17) Carbon Disulfide	2.501	76	35933	12.751	ug/l #	95
18) Methyl Acetate	2.703	43	42606	27.871	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	72115	20.316	ug/l	97
20) Methylene Chloride	2.782	84	23893	18.981	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	19581	18.733	ug/l	97
22) Diisopropyl ether	3.763	45	76469	19.964	ug/l	93
23) Vinyl Acetate	3.721	43	306103	95.765	ug/l	99
24) 1,1-Dichloroethane	3.605	63	43058	20.059	ug/l	98
25) 2-Butanone	4.562	43	100026	104.573	ug/l	99
26) 2,2-Dichloropropane	4.471	77	28885	28.688	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	25041	19.407	ug/l	92
28) Bromochloromethane	4.891	49	21480	20.993	ug/l	97
29) Tetrahydrofuran	5.007	42	62954	98.005	ug/l	98
30) Chloroform	5.086	83	44967	21.082	ug/l	99
31) Cyclohexane	5.458	56	33852	18.167	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	36101	20.957	ug/l	97
36) 1,1-Dichloropropene	5.684	75	26571	18.591	ug/l	98
37) Ethyl Acetate	4.721	43	35014	19.012	ug/l	98
38) Carbon Tetrachloride	5.666	117	29493	20.326	ug/l	97
39) Methylcyclohexane	7.373	83	31736	18.531	ug/l	94
40) Benzene	6.031	78	86246	19.110	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	22069	22.162	ug/l		97
42) 1,2-Dichloroethane	6.080	62	36284	22.326	ug/l		98
43) Isopropyl Acetate	6.342	43	54608	20.052	ug/l		98
44) Trichloroethene	7.123	130	20066	18.935	ug/l		99
45) 1,2-Dichloropropane	7.427	63	22989	19.811	ug/l		99
46) Dibromomethane	7.580	93	17121	20.875	ug/l		96
47) Bromodichloromethane	7.818	83	34556	21.480	ug/l		97
48) Methyl methacrylate	7.690	41	28268	20.690	ug/l		93
49) 1,4-Dioxane	7.665	88	10136	351.704	ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	199417	109.058	ug/l		98
52) Toluene	8.714	92	52106	19.678	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	27477	20.430	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	31909	20.346	ug/l	#	90
55) 1,1,2-Trichloroethane	9.153	97	22547	20.683	ug/l		97
56) Ethyl methacrylate	9.116	69	33792	20.393	ug/l		93
57) 1,3-Dichloropropane	9.305	76	39109	20.731	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	78925	97.641	ug/l		98
59) 2-Hexanone	9.427	43	142958	107.905	ug/l		96
60) Dibromochloromethane	9.519	129	24038	21.089	ug/l		100
61) 1,2-Dibromoethane	9.610	107	22245	20.441	ug/l		99
64) Tetrachloroethene	9.269	164	17875	20.382	ug/l		95
65) Chlorobenzene	10.079	112	57272	19.767	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	19871	20.594	ug/l		99
67) Ethyl Benzene	10.189	91	102810	20.364	ug/l		97
68) m/p-Xylenes	10.299	106	75344	40.767	ug/l		97
69) o-Xylene	10.640	106	36903	19.798	ug/l		93
70) Styrene	10.652	104	61842	20.504	ug/l		97
71) Bromoform	10.799	173	14956	20.555	ug/l	#	99
73) Isopropylbenzene	10.957	105	99726	20.856	ug/l		98
74) N-amyl acetate	10.841	43	44441	19.807	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	35740	20.368	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	30230m	21.201	ug/l		
77) Bromobenzene	11.195	156	22393	19.848	ug/l		96
78) n-propylbenzene	11.305	91	113273	20.970	ug/l		97
79) 2-Chlorotoluene	11.360	91	70756	20.568	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	80231	20.751	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	7884	18.922	ug/l	#	81
82) 4-Chlorotoluene	11.451	91	78163	20.848	ug/l		100
83) tert-Butylbenzene	11.713	119	81878	20.611	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	81595	20.974	ug/l		98
85) sec-Butylbenzene	11.890	105	100377	21.094	ug/l		99
86) p-Isopropyltoluene	12.006	119	80414	20.910	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	38996	19.376	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	39135	19.220	ug/l		97
89) n-Butylbenzene	12.329	91	68342	20.634	ug/l		98
90) Hexachloroethane	12.536	117	13976	20.092	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	40119	19.871	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7242	21.185	ug/l		86
93) 1,2,4-Trichlorobenzene	13.585	180	21683	18.861	ug/l		98
94) Hexachlorobutadiene	13.725	225	9796	20.784	ug/l		98
95) Naphthalene	13.774	128	82531	18.685	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	22637	18.665	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

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

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

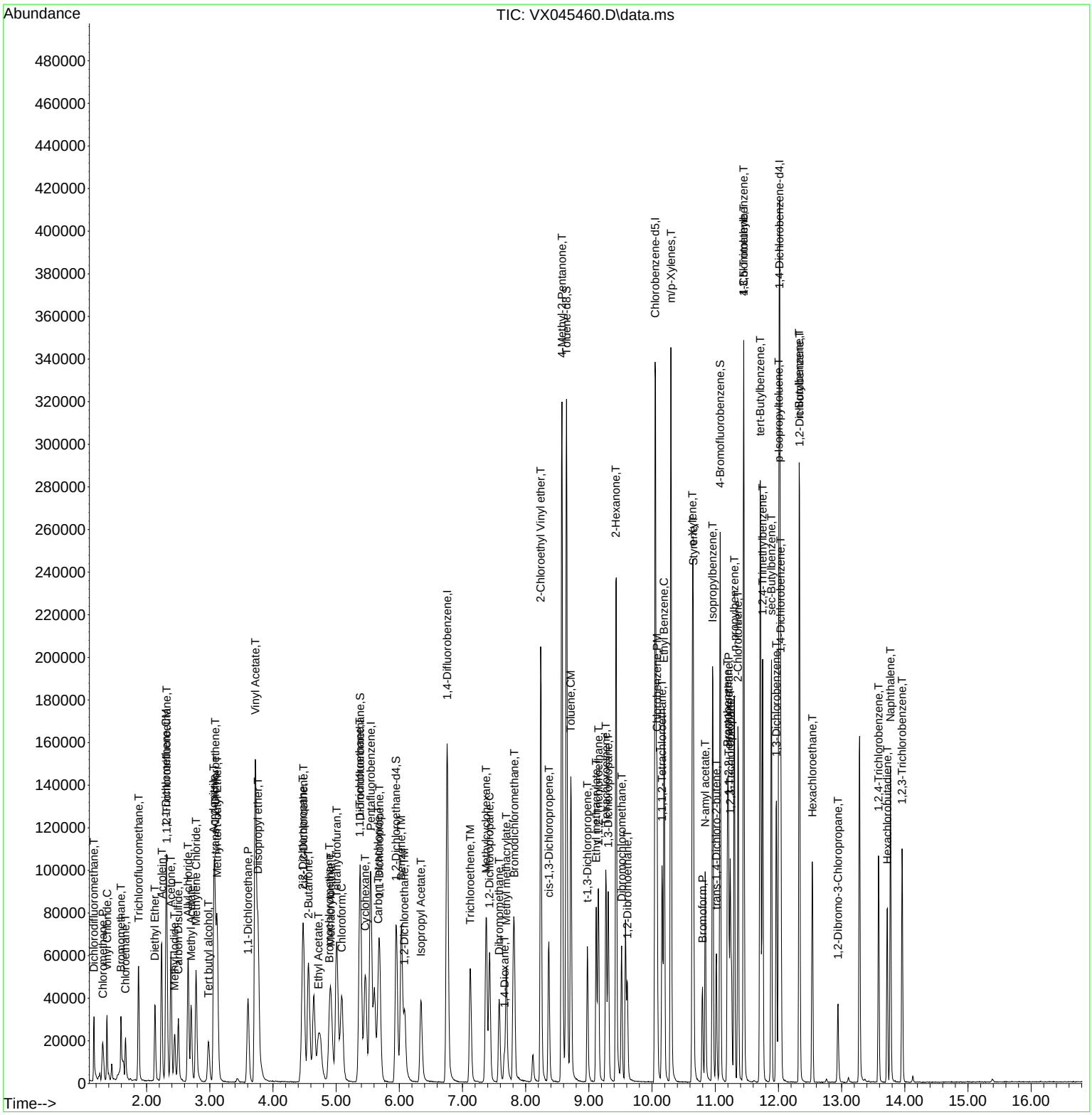
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

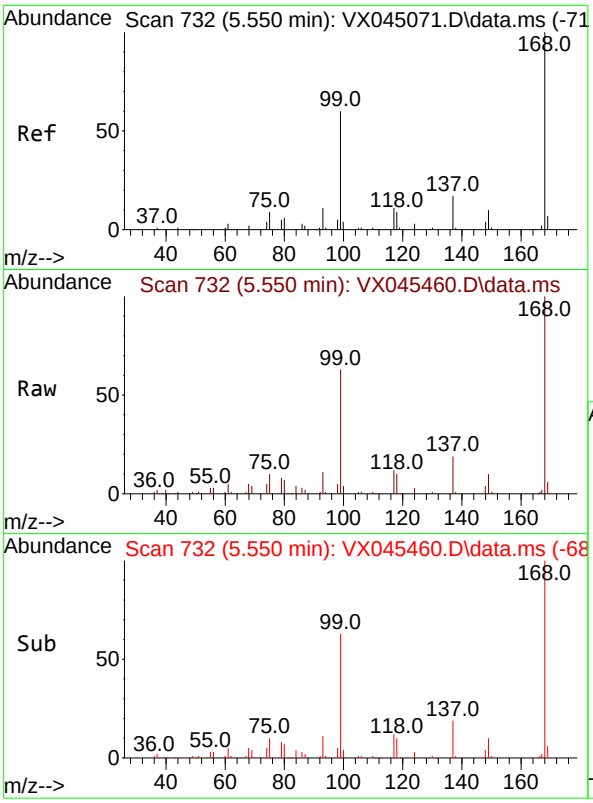
Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

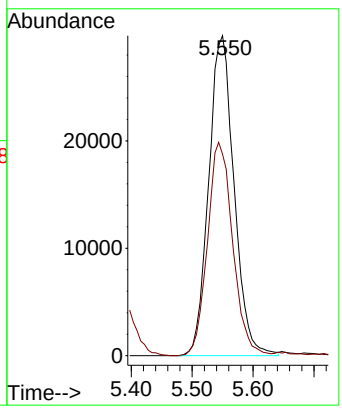




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:168 Resp: 8610

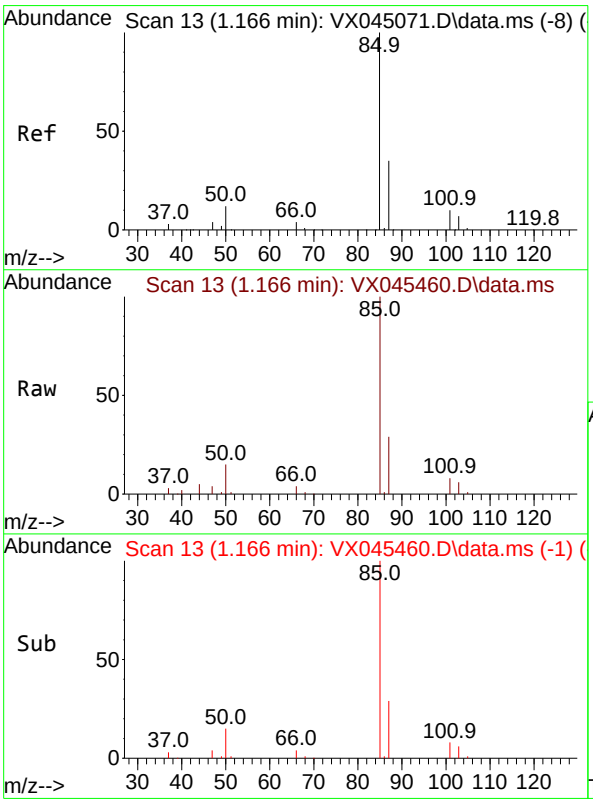
Ion	Ratio	Lower	Upper
168	100		
99	63.0	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

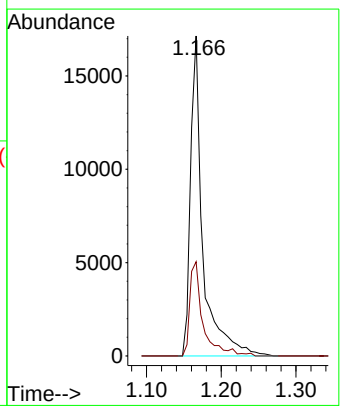
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

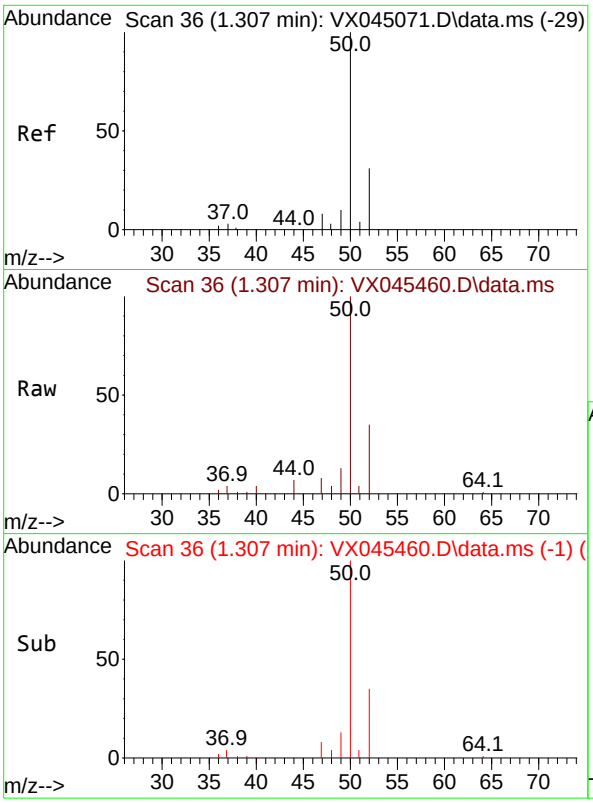


#2
Dichlorodifluoromethane
Concen: 18.021 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 85 Resp: 19532

Ion	Ratio	Lower	Upper
85	100		
87	29.5	17.4	52.3

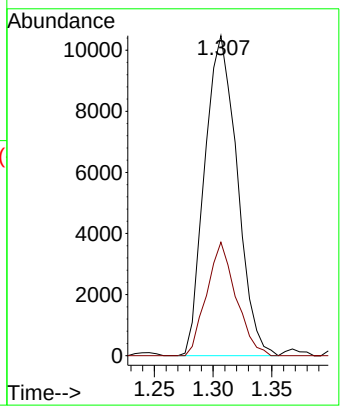




#3
Chloromethane
Concen: 15.176 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 50 Resp: 2012

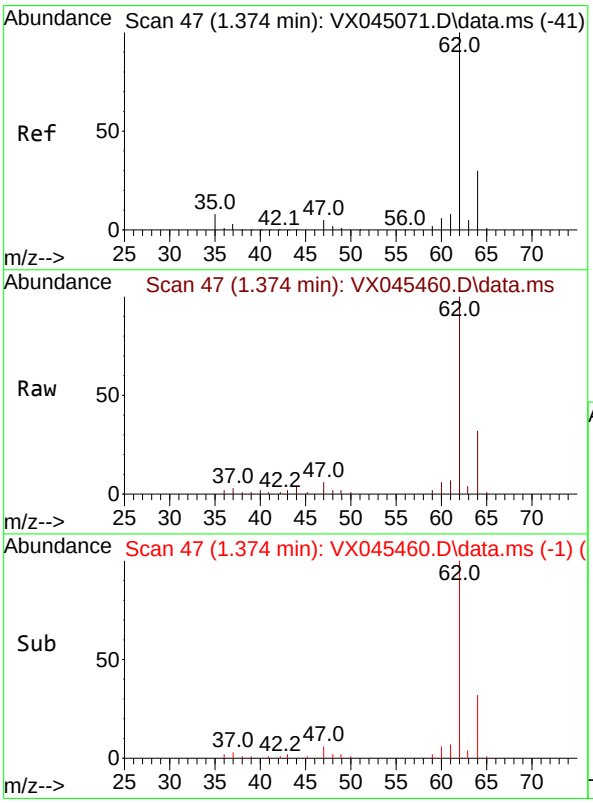
Ion	Ratio	Lower	Upper
50	100		
52	35.5	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

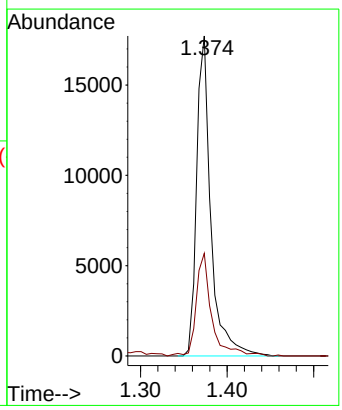
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

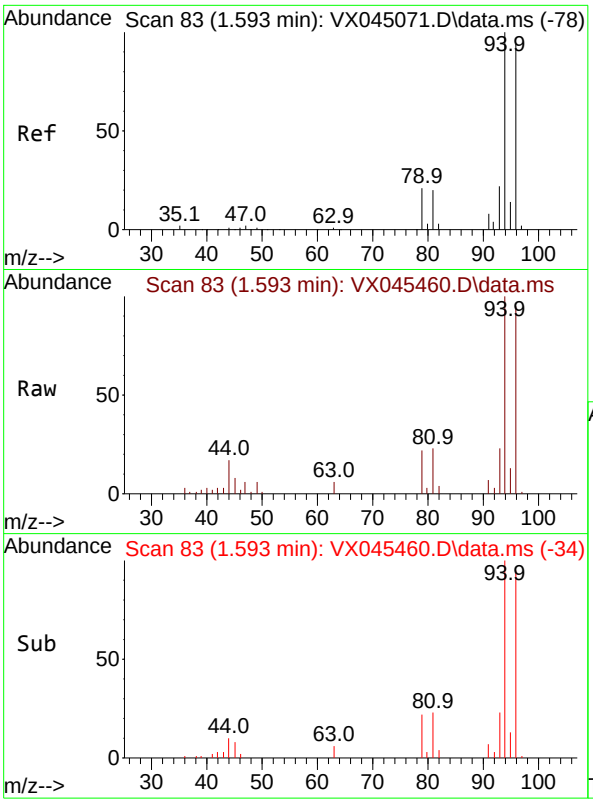


#4
Vinyl Chloride
Concen: 15.295 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 62 Resp: 20125

Ion	Ratio	Lower	Upper
62	100		
64	31.8	24.3	36.5





#5
Bromomethane
Concen: 18.559 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

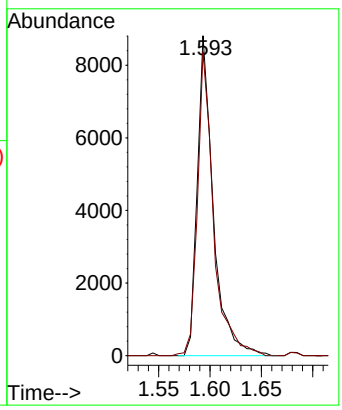
Tgt Ion: 94 Resp: 960

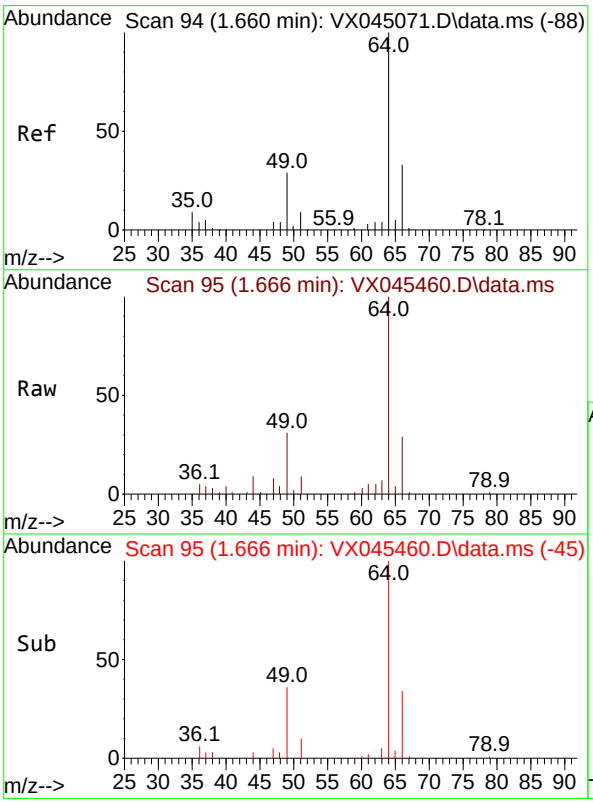
Ion	Ratio	Lower	Upper
94	100		
96	95.0	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

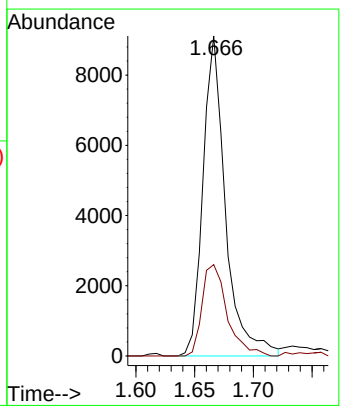


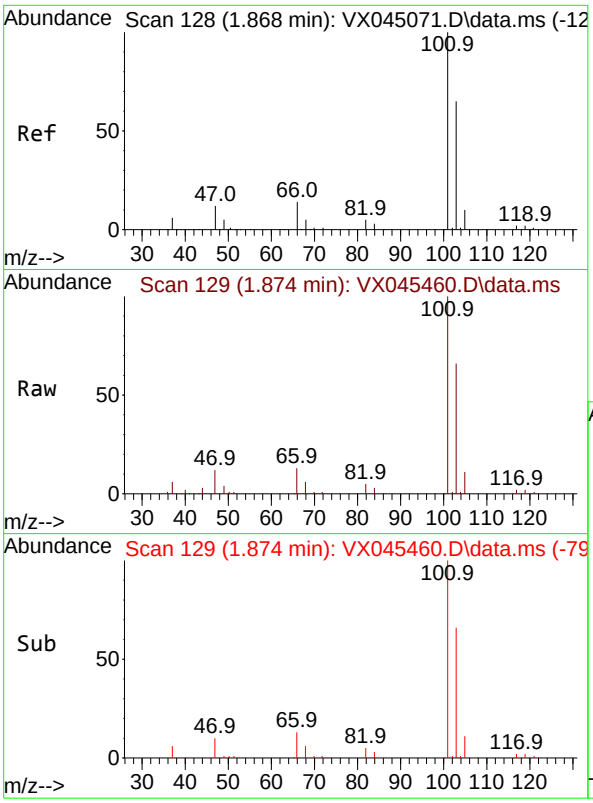


#6
Chloroethane
Concen: 19.963 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 64 Resp: 12116

Ion	Ratio	Lower	Upper
64	100		
66	28.6	26.7	40.1

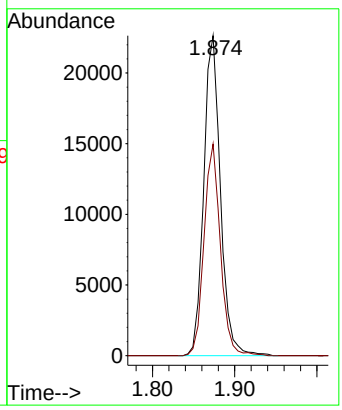




#7
Trichlorofluoromethane
Concen: 18.345 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:101 Resp: 3195

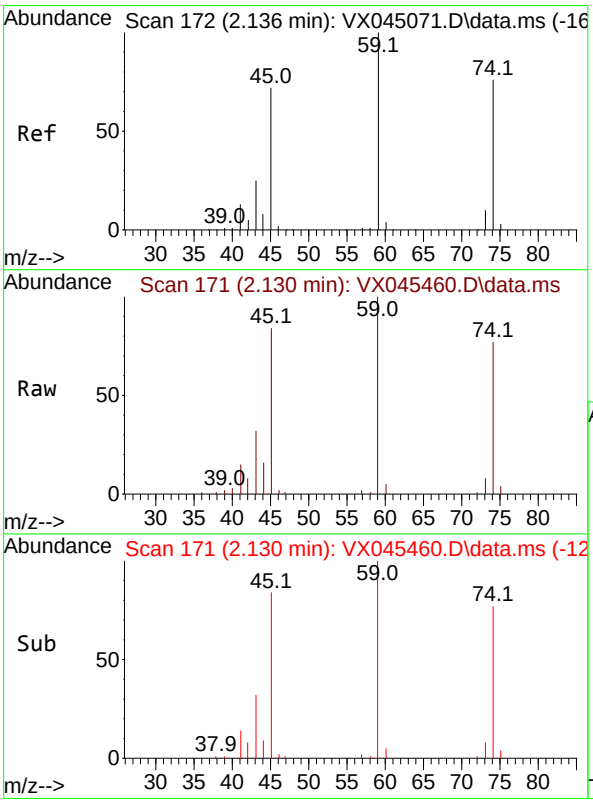
Ion	Ratio	Lower	Upper
101	100		
103	66.2	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

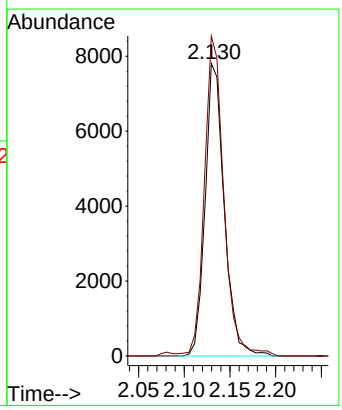
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

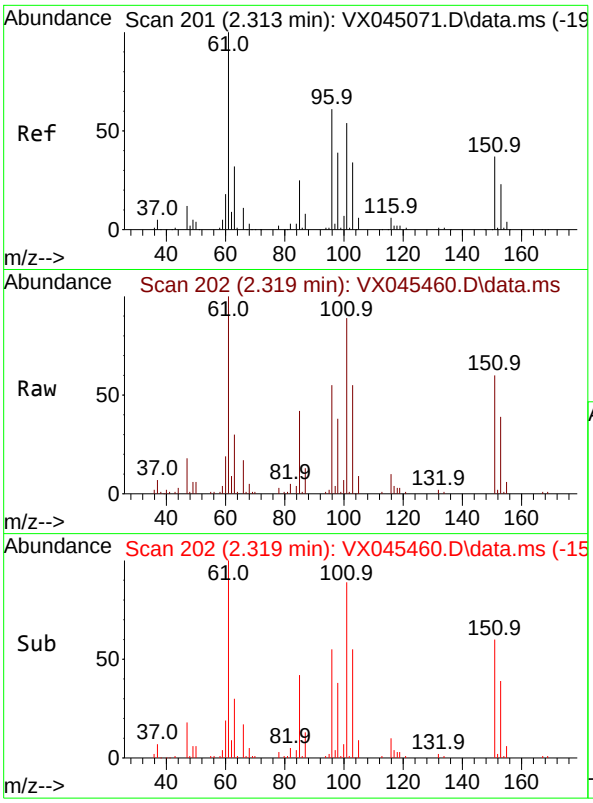


#8
Diethyl Ether
Concen: 16.621 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 74 Resp: 11324

Ion	Ratio	Lower	Upper
74	100		
45	110.8	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.595 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

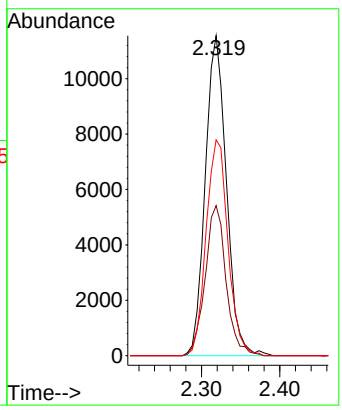
Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

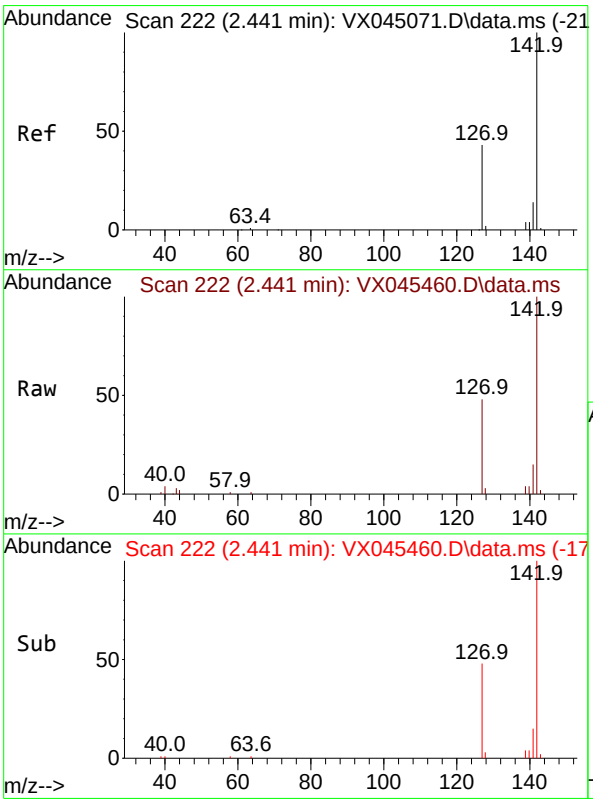
Tgt Ion:101 Resp: 2161

Ion	Ratio	Lower	Upper
101	100		
85	46.4	36.2	54.4
151	70.0	56.4	84.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

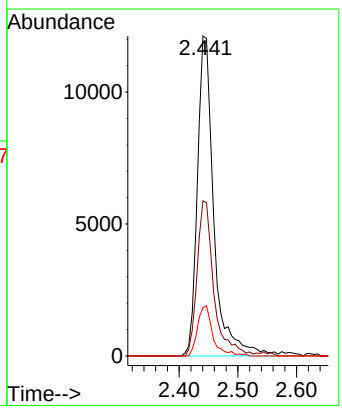


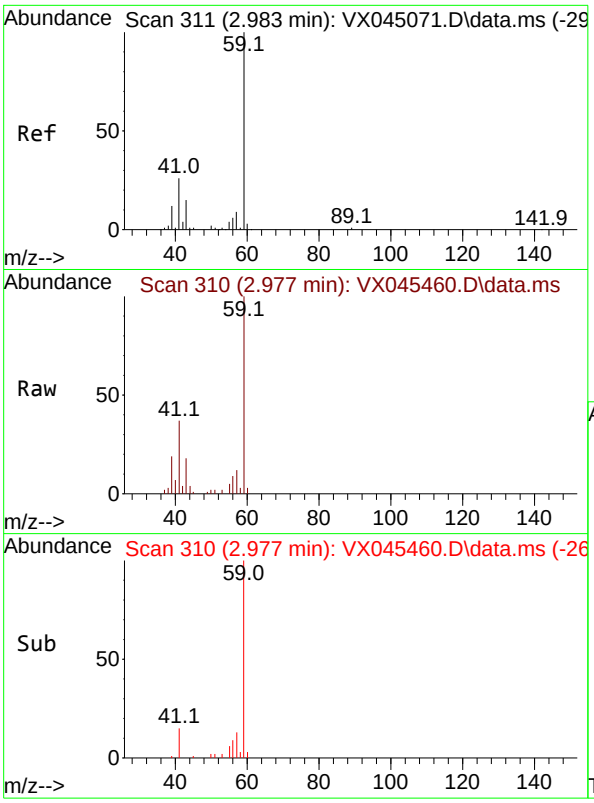


#10
Methyl Iodide
Concen: 18.908 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:142 Resp: 23647

Ion	Ratio	Lower	Upper
142	100		
127	49.0	35.4	53.2
141	14.5	11.6	17.4

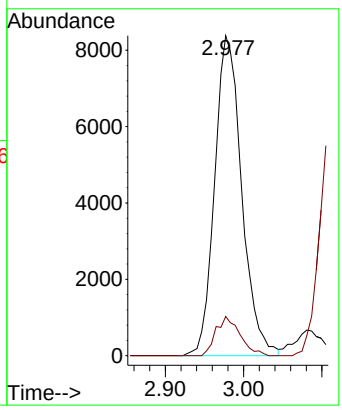




#11
Tert butyl alcohol
Concen: 77.510 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 59 Resp: 2010

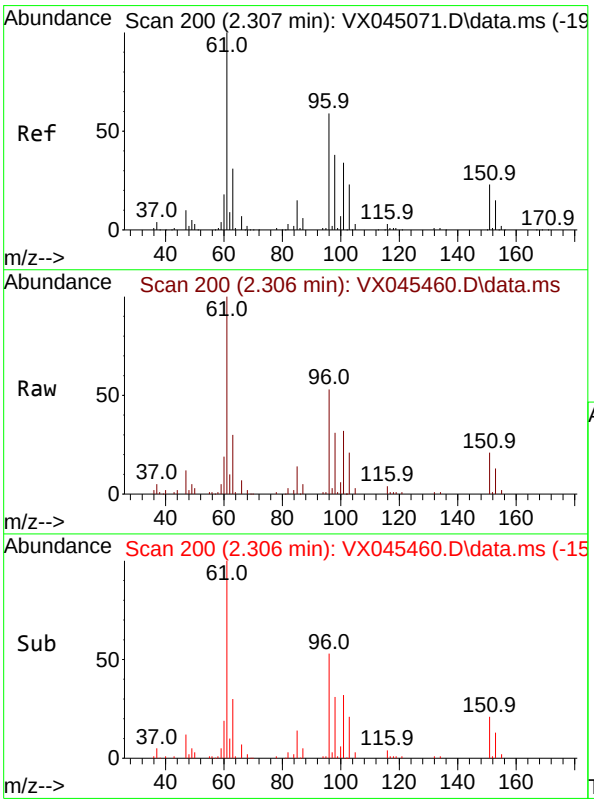
Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

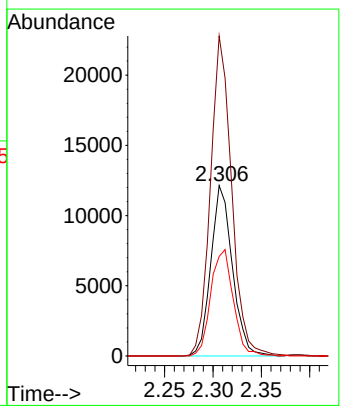
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

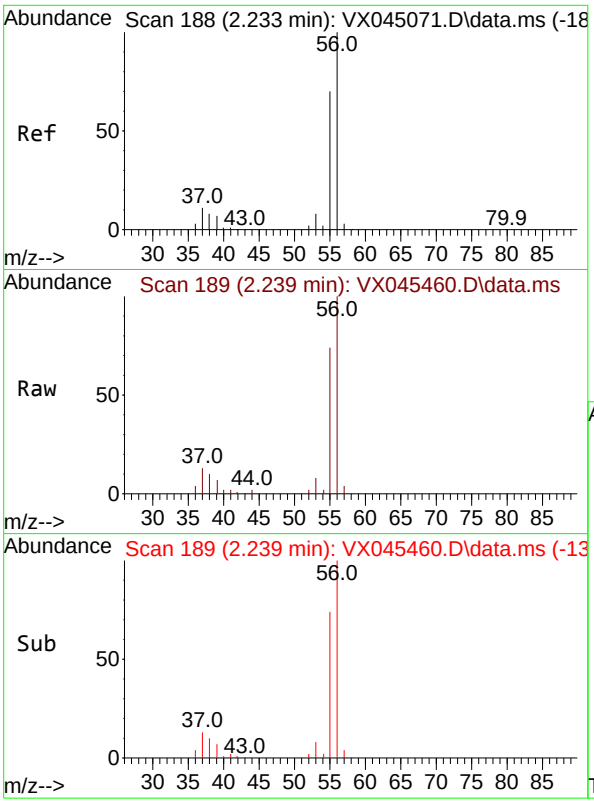


#12
1,1-Dichloroethene
Concen: 17.790 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 96 Resp: 18823

Ion	Ratio	Lower	Upper
96	100		
61	187.7	134.6	202.0
98	58.4	51.0	76.6

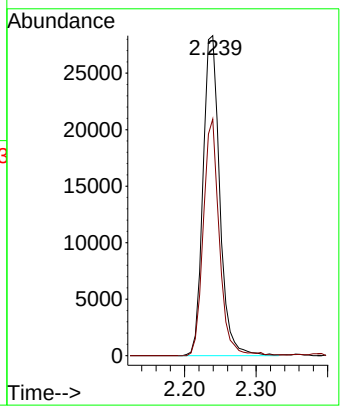




#13
Acrolein
Concen: 153.580 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 56 Resp: 4605

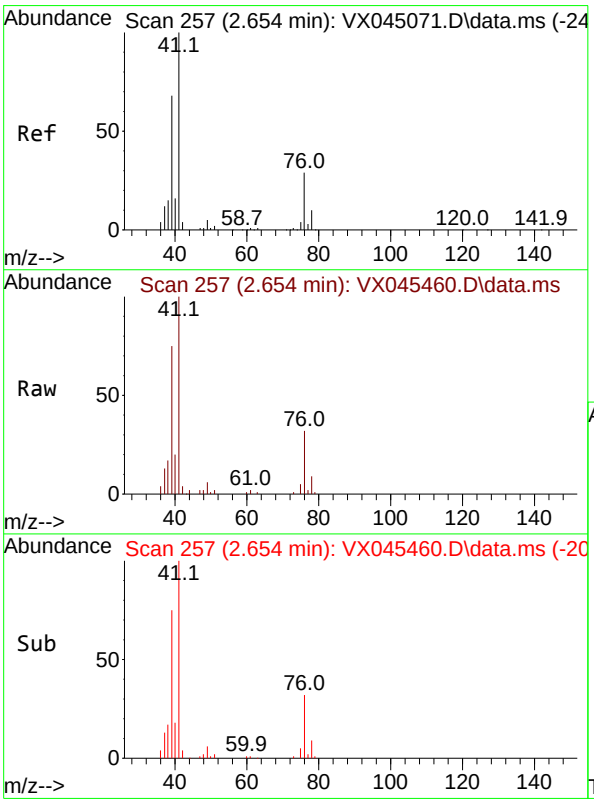
Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

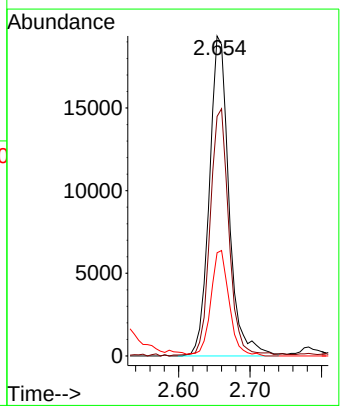
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

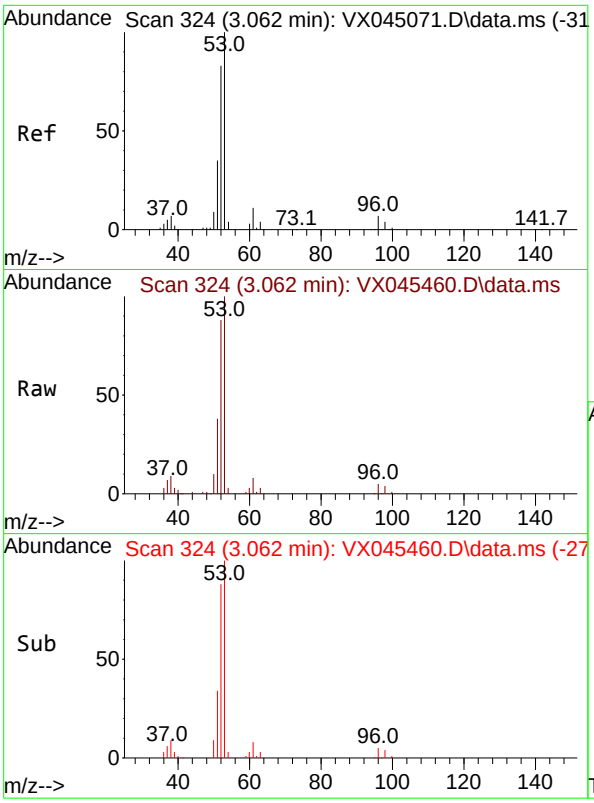


#14
Allyl chloride
Concen: 19.593 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 41 Resp: 36901

Ion	Ratio	Lower	Upper
41	100		
39	74.3	53.8	80.8
76	30.8	25.2	37.8

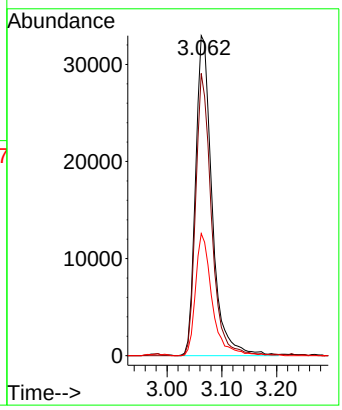




#15
Acrylonitrile
Concen: 99.873 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 53 Resp: 6944

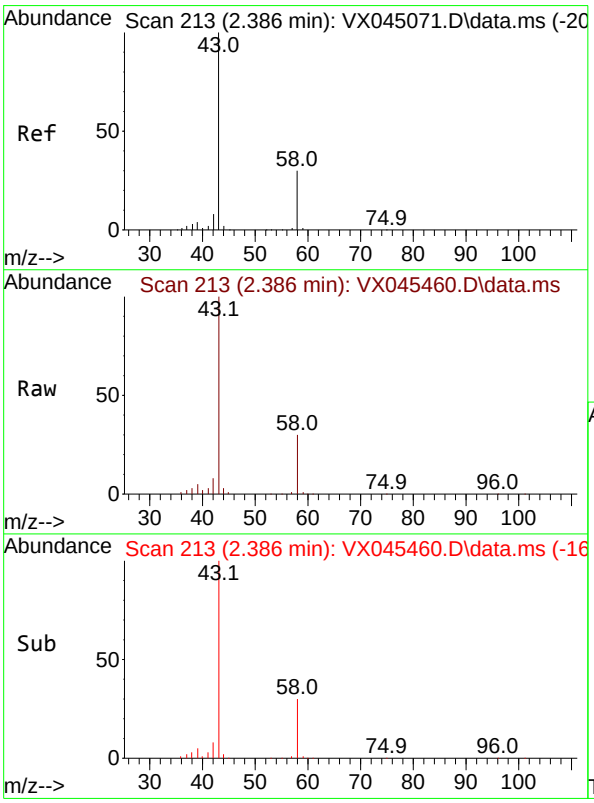
Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.2	99.2
51	38.3	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

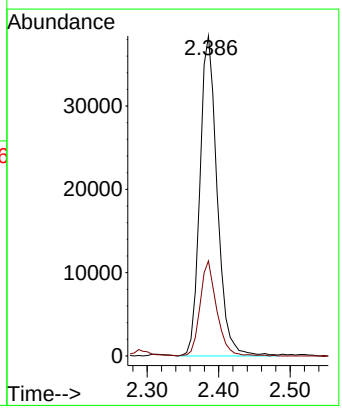
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

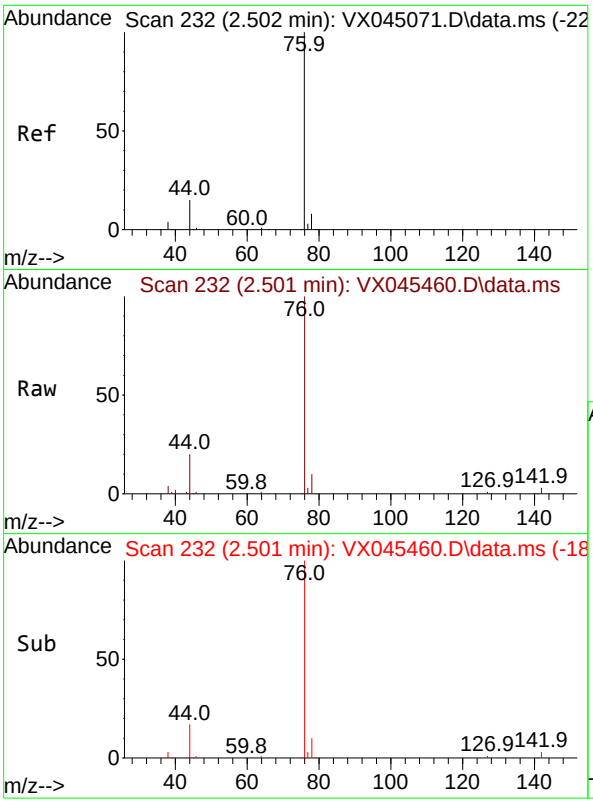


#16
Acetone
Concen: 101.624 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 64578

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4

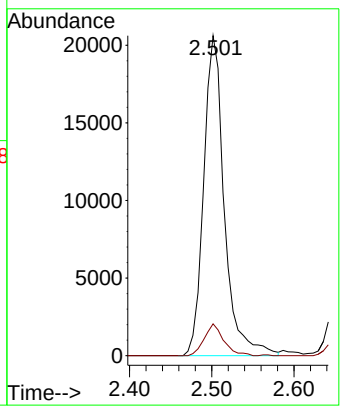




#17
Carbon Disulfide
Concen: 12.751 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 76 Resp: 3593

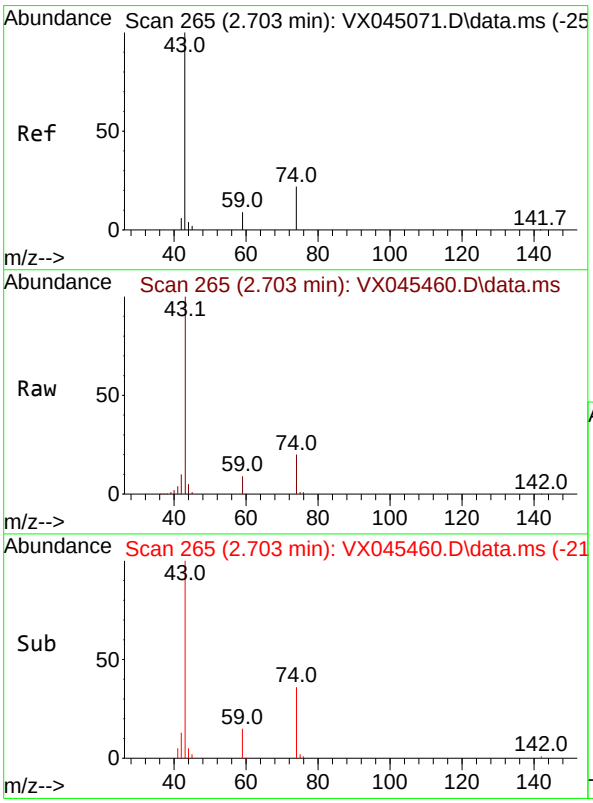
Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

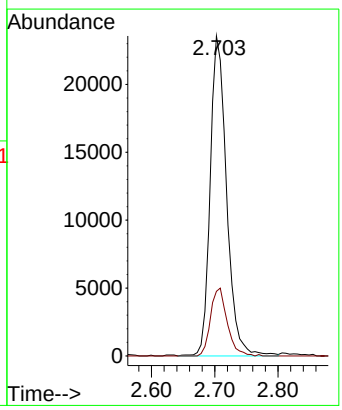
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

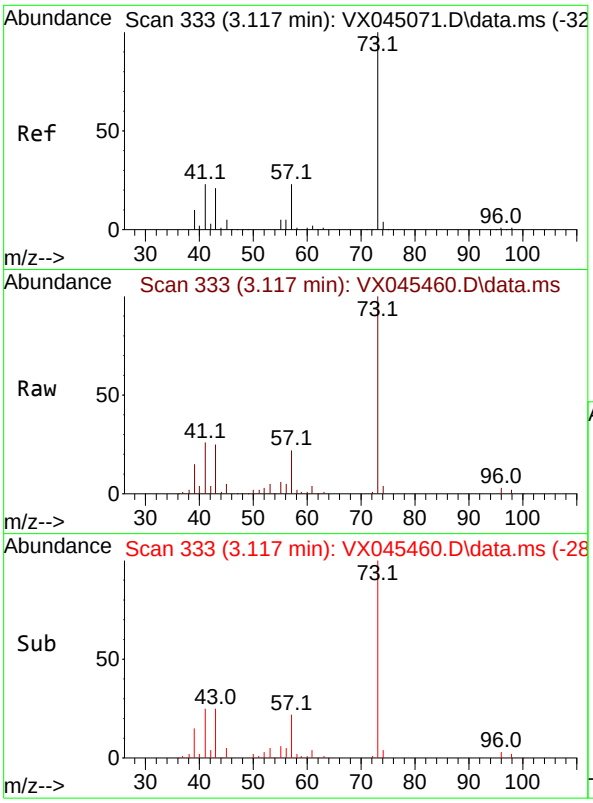


#18
Methyl Acetate
Concen: 27.871 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 42606

Ion	Ratio	Lower	Upper
43	100		
74	21.5	17.4	26.2

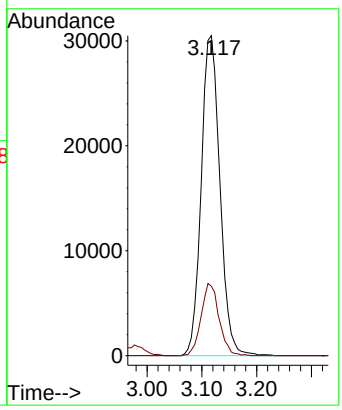




#19
Methyl tert-butyl Ether
Concen: 20.316 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 73 Resp: 7211

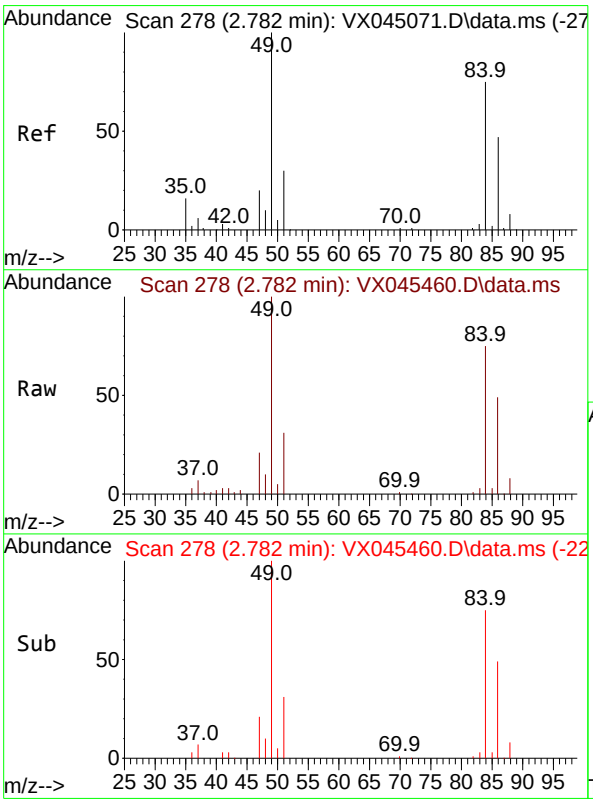
Ion	Ratio	Lower	Upper
73	100		
57	21.7	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

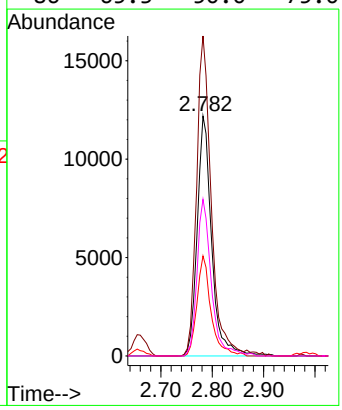
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

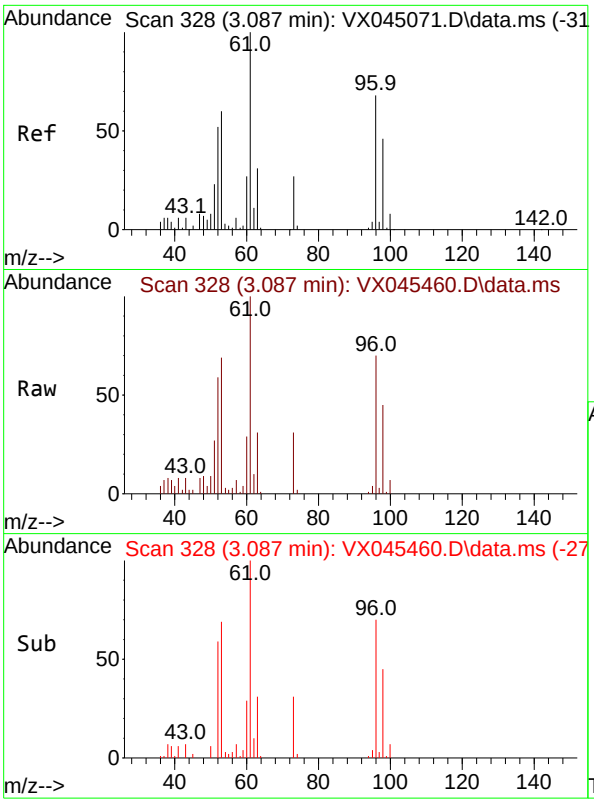


#20
Methylene Chloride
Concen: 18.981 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 84 Resp: 23893

Ion	Ratio	Lower	Upper
84	100		
49	133.4	106.5	159.7
51	41.7	32.1	48.1
86	65.3	50.0	75.0

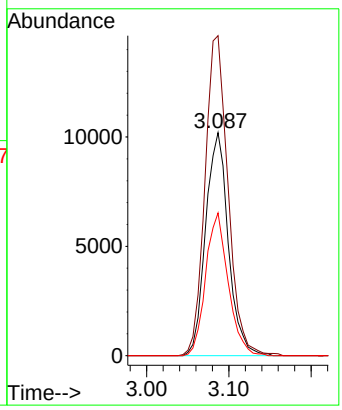




#21
trans-1,2-Dichloroethene
Concen: 18.733 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 96 Resp: 1958

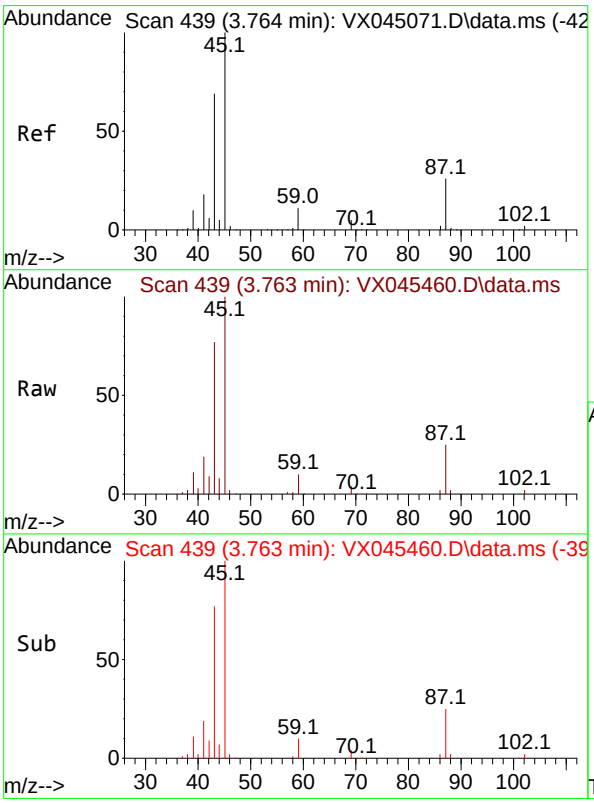
Ion	Ratio	Lower	Upper
96	100		
61	143.4	117.0	175.4
98	64.0	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

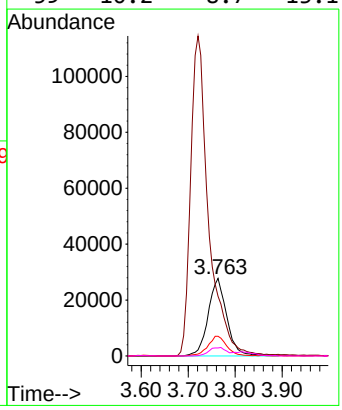
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

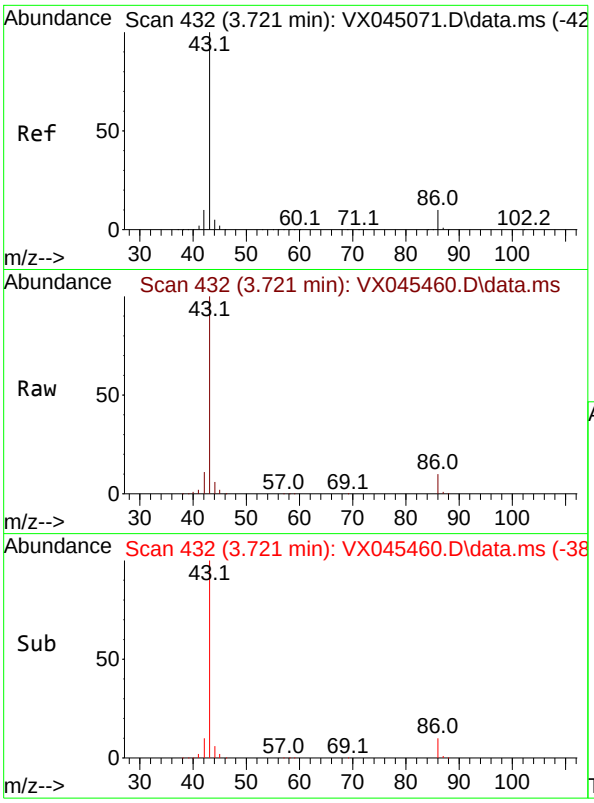


#22
Diisopropyl ether
Concen: 19.964 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 45 Resp: 76469

Ion	Ratio	Lower	Upper
45	100		
43	76.2	54.9	82.3
87	25.4	21.0	31.4
59	10.2	8.7	13.1

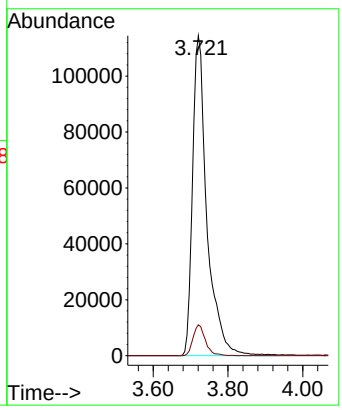




#23
Vinyl Acetate
Concen: 95.765 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 30610

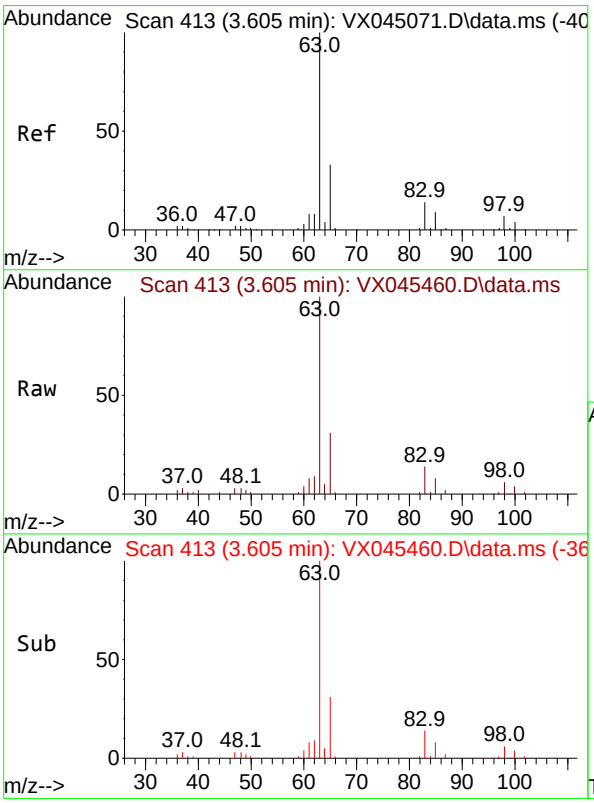
Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

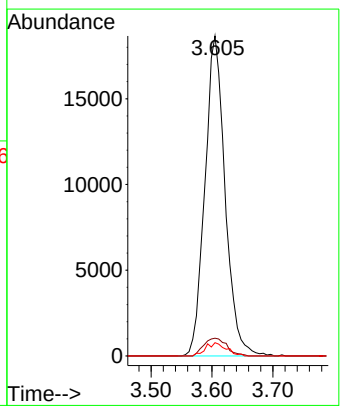
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

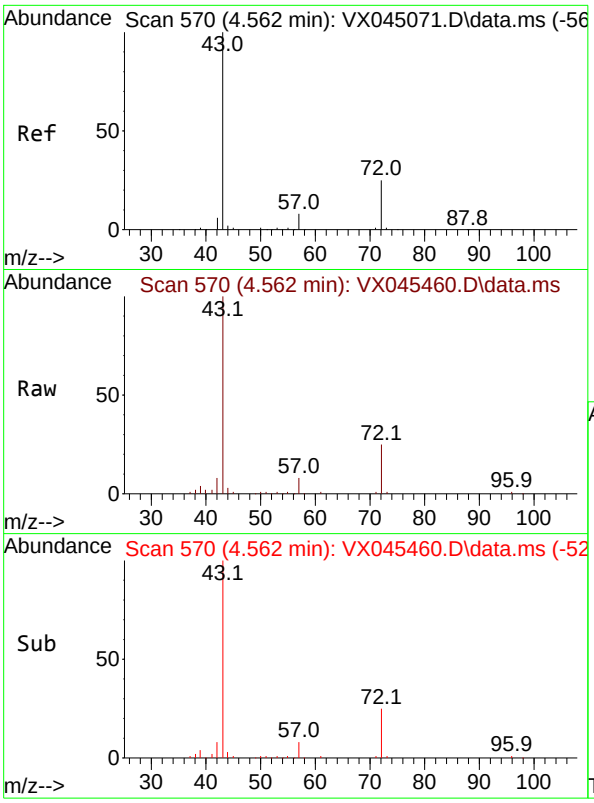


#24
1,1-Dichloroethane
Concen: 20.059 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 63 Resp: 43058

Ion	Ratio	Lower	Upper
63	100		
98	5.5	3.4	10.2
100	4.2	2.1	6.5

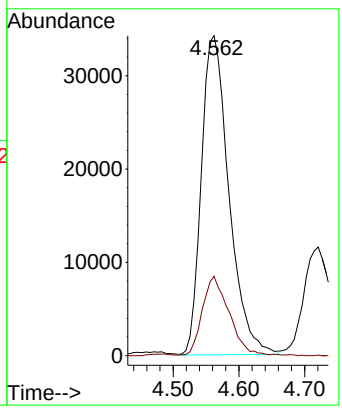




#25
2-Butanone
Concen: 104.573 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 10002

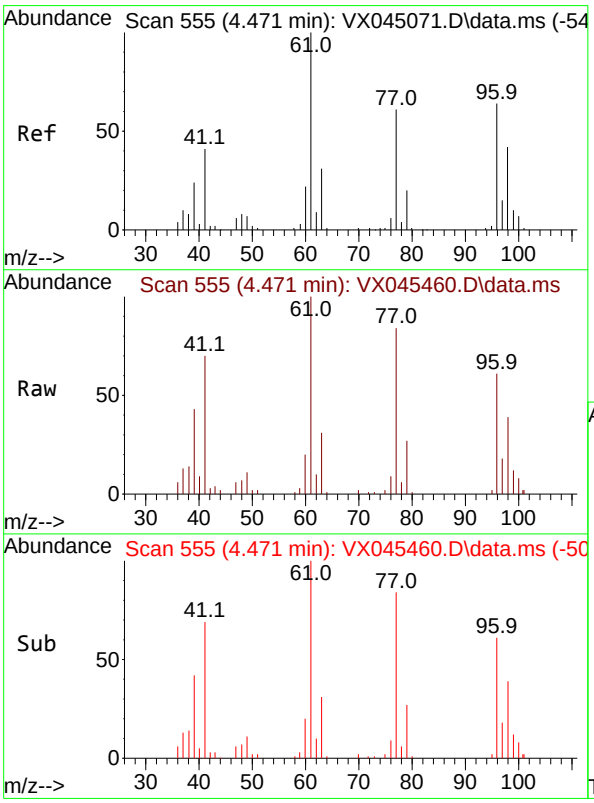
Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.0	30.0



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

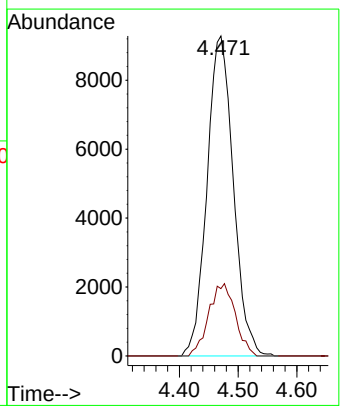
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

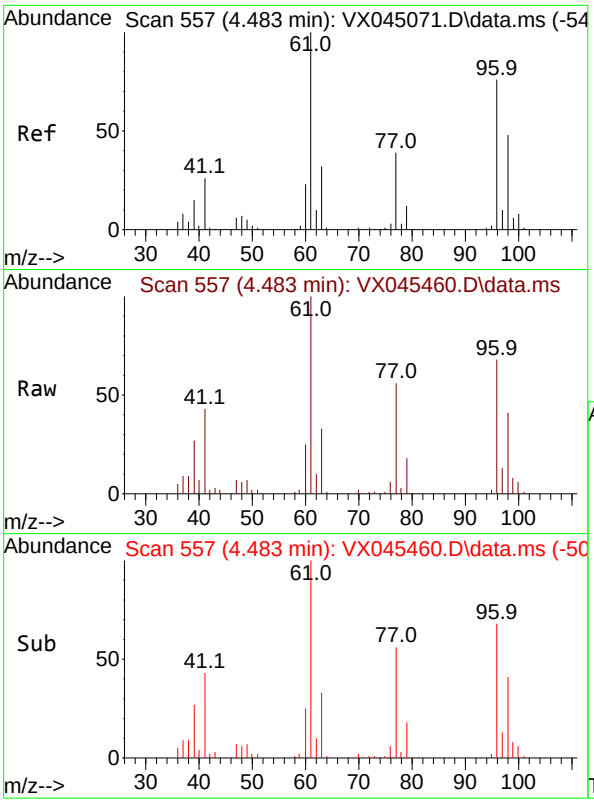


#26
2,2-Dichloropropane
Concen: 28.688 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 77 Resp: 28885

Ion	Ratio	Lower	Upper
77	100		
97	22.8	12.4	37.0

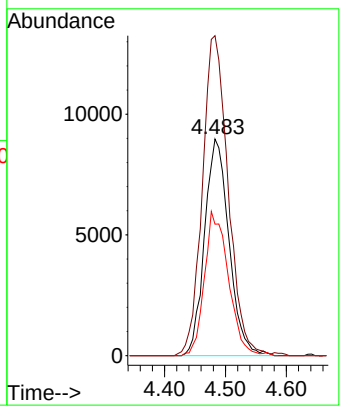




#27
cis-1,2-Dichloroethene
Concen: 19.407 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 96 Resp: 2504

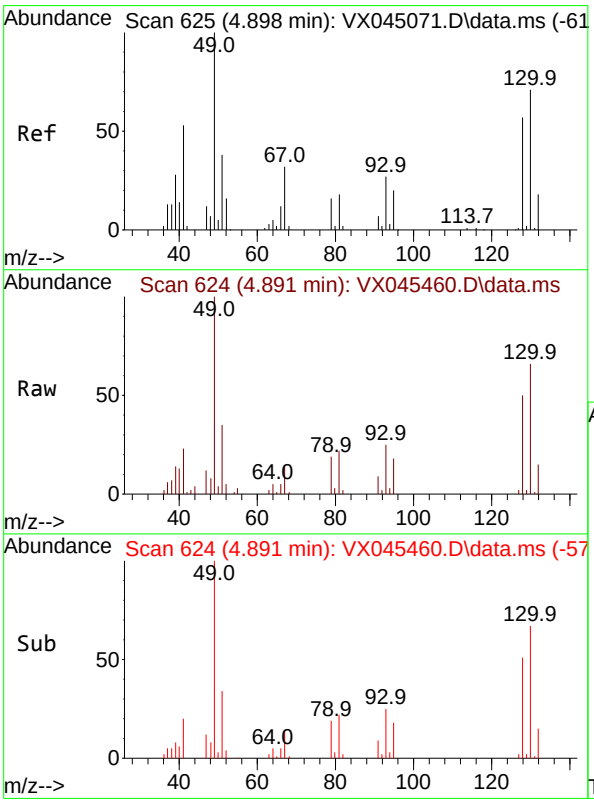
Ion	Ratio	Lower	Upper
96	100		
61	155.5	0.0	283.2
98	65.2	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

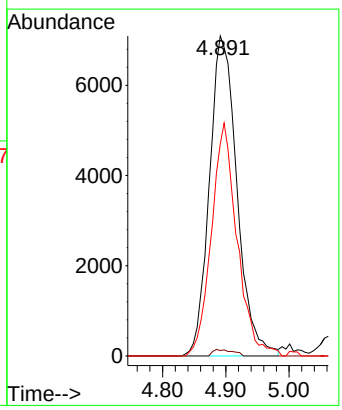
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

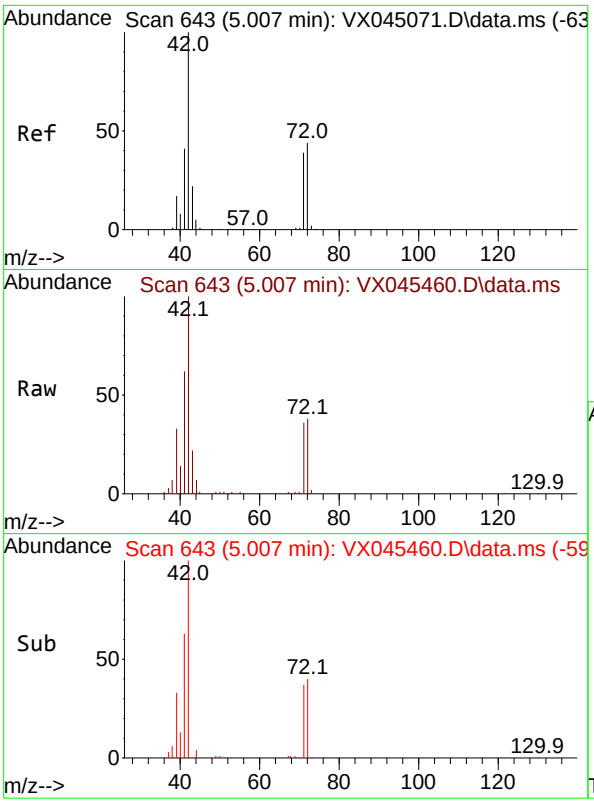


#28
Bromochloromethane
Concen: 20.993 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 49 Resp: 21480

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.4
130	67.7	56.1	84.1

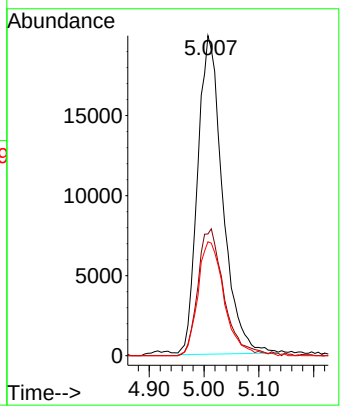




#29
Tetrahydrofuran
Concen: 98.005 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 42 Resp: 6295

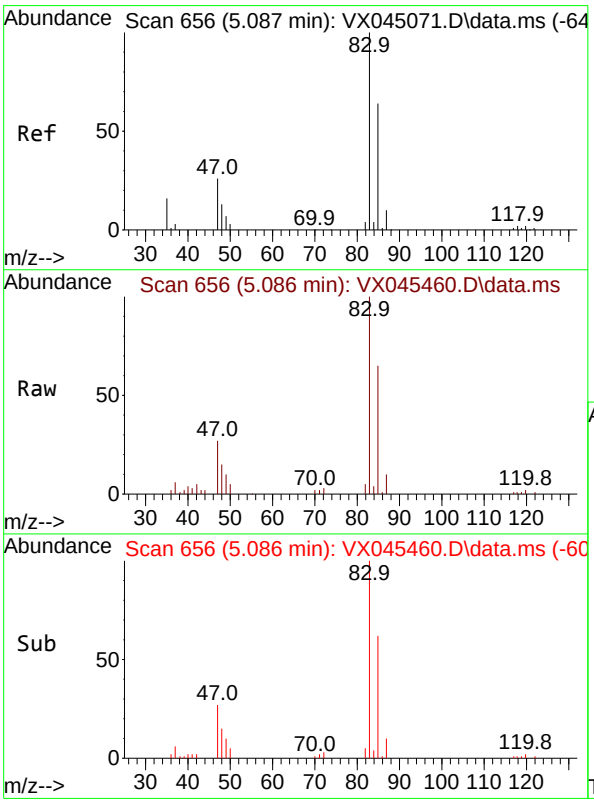
Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.1	51.1
71	37.8	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

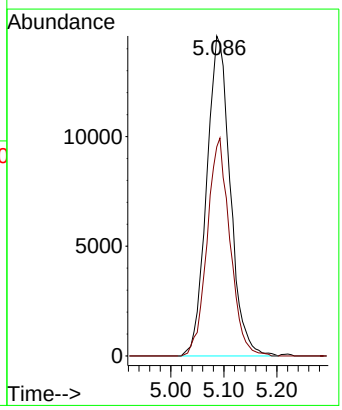
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

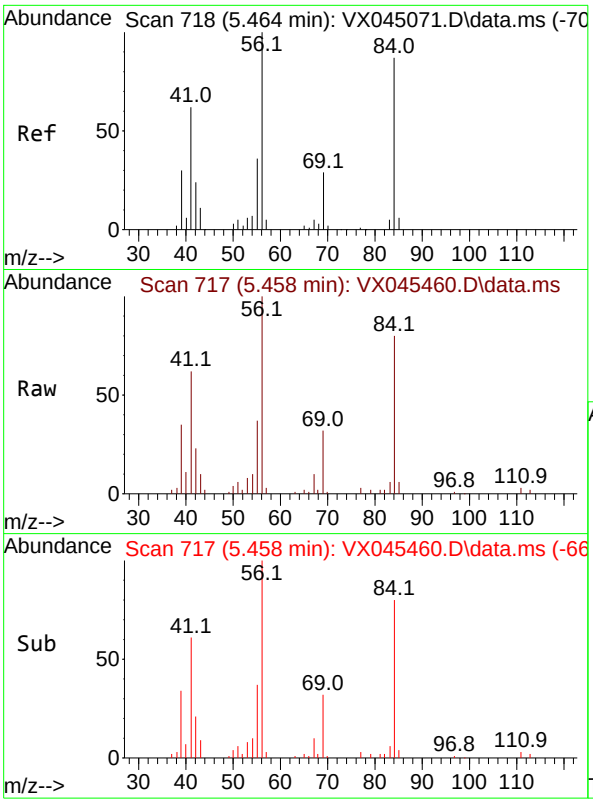


#30
Chloroform
Concen: 21.082 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 83 Resp: 44967

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.4	77.2

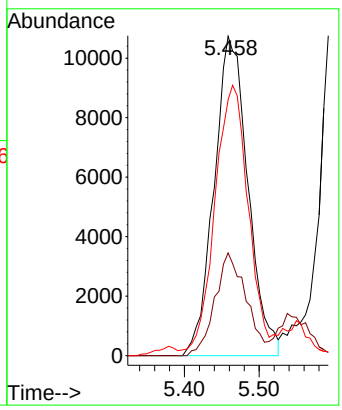




#31
Cyclohexane
Concen: 18.167 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 56 Resp: 3385

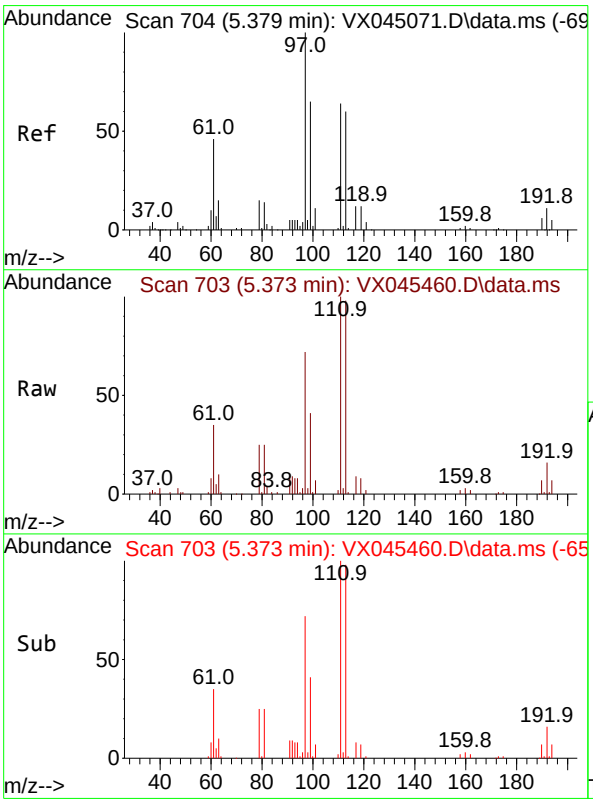
Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.4	35.2
84	78.5	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

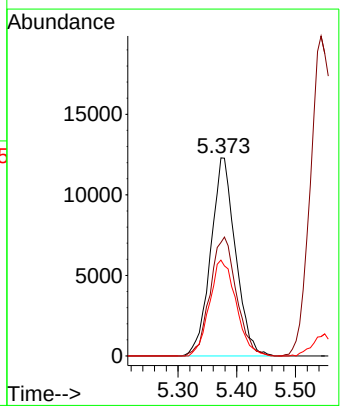
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

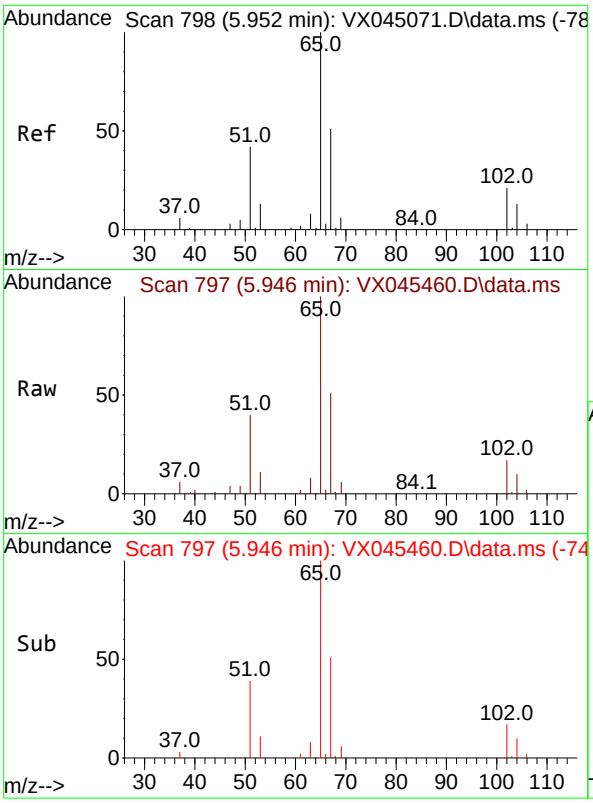


#32
1,1,1-Trichloroethane
Concen: 20.957 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 97 Resp: 36101

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.6	77.4
61	51.7	38.4	57.6

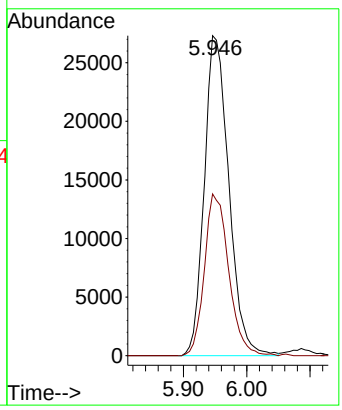




#33
1,2-Dichloroethane-d4
Concen: 53.782 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 65 Resp: 7366

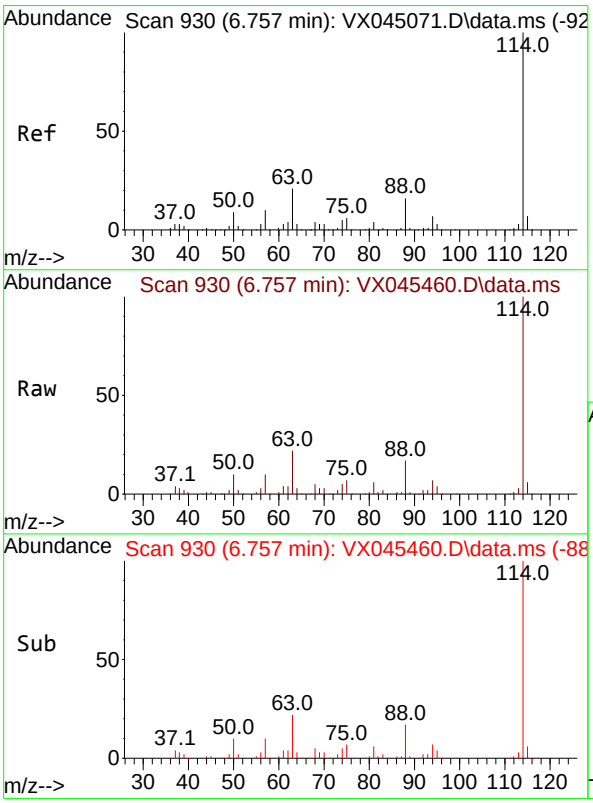
Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

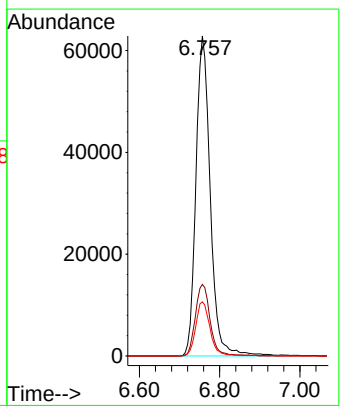
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

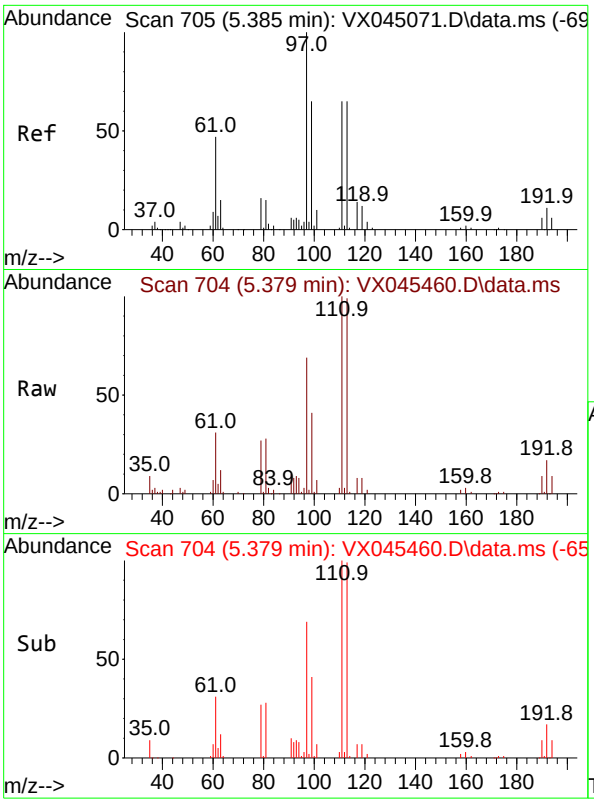


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:114 Resp: 155857

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	41.8
88	16.9	0.0	32.8

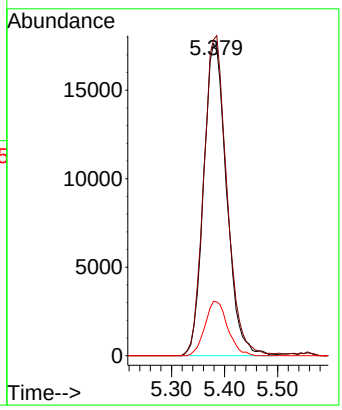




#35
Dibromofluoromethane
Concen: 50.985 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:113 Resp: 5313

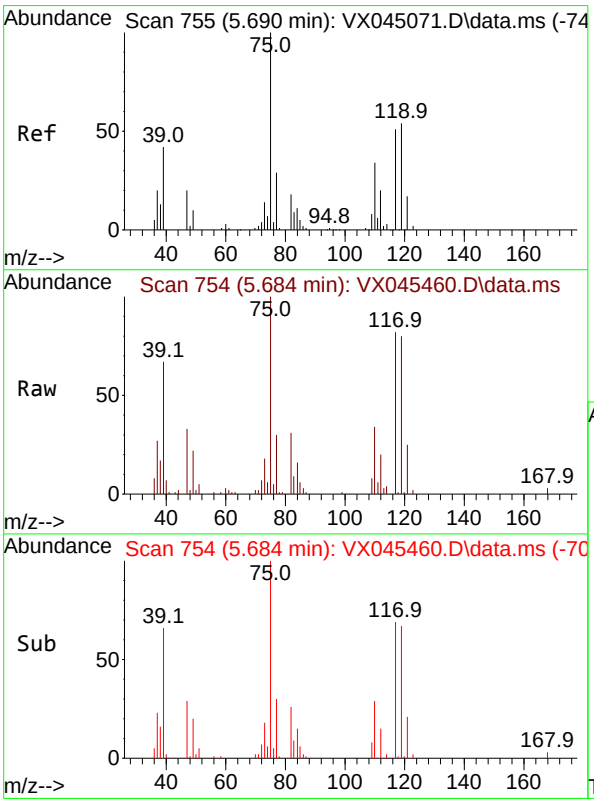
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	17.2	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

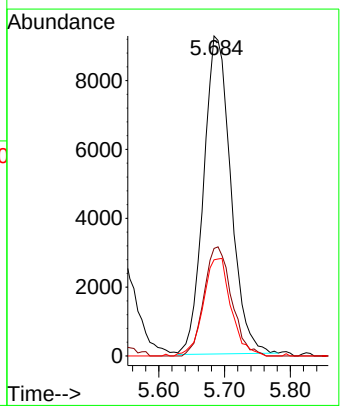
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

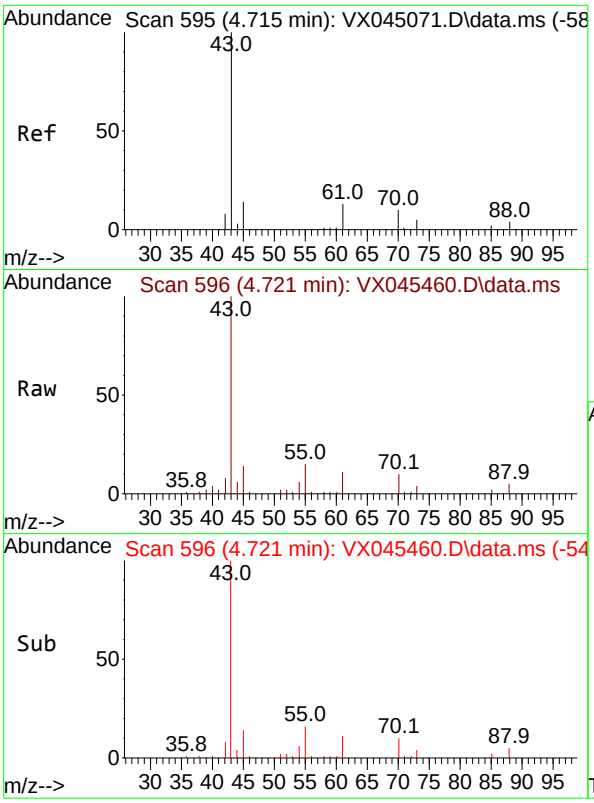


#36
1,1-Dichloropropene
Concen: 18.591 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 26571

Ion	Ratio	Lower	Upper
75	100		
110	34.9	16.9	50.6
77	31.3	24.5	36.7

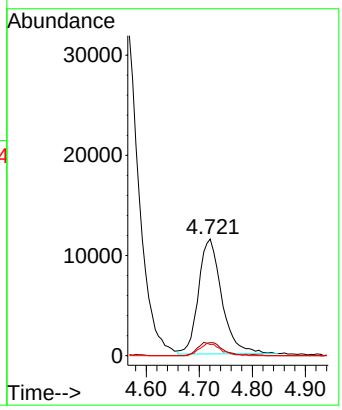




#37
Ethyl Acetate
Concen: 19.012 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 3501

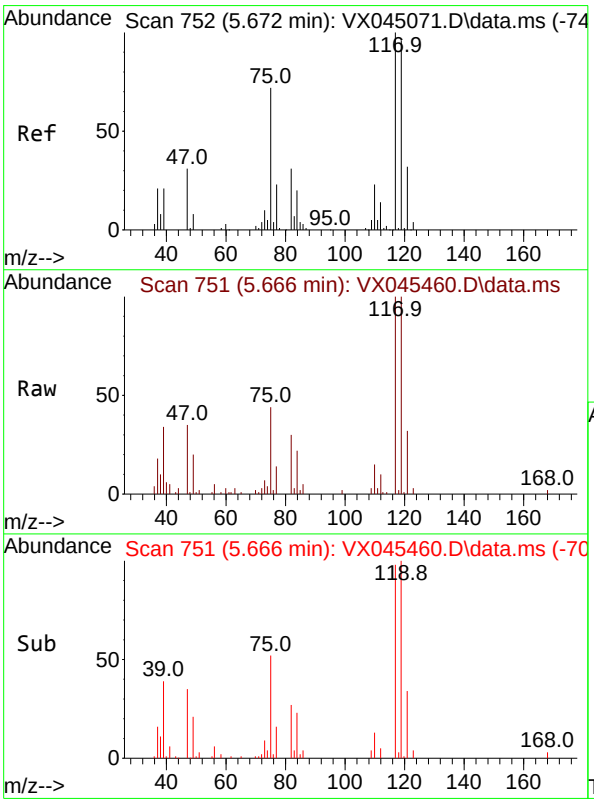
Ion	Ratio	Lower	Upper
43	100		
61	12.1	10.8	16.2
70	9.8	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

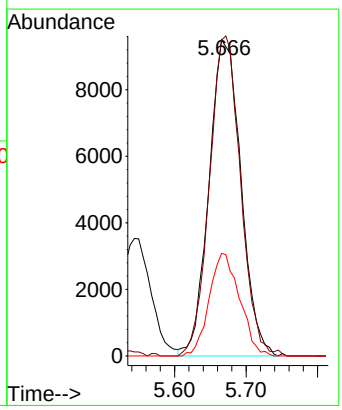
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

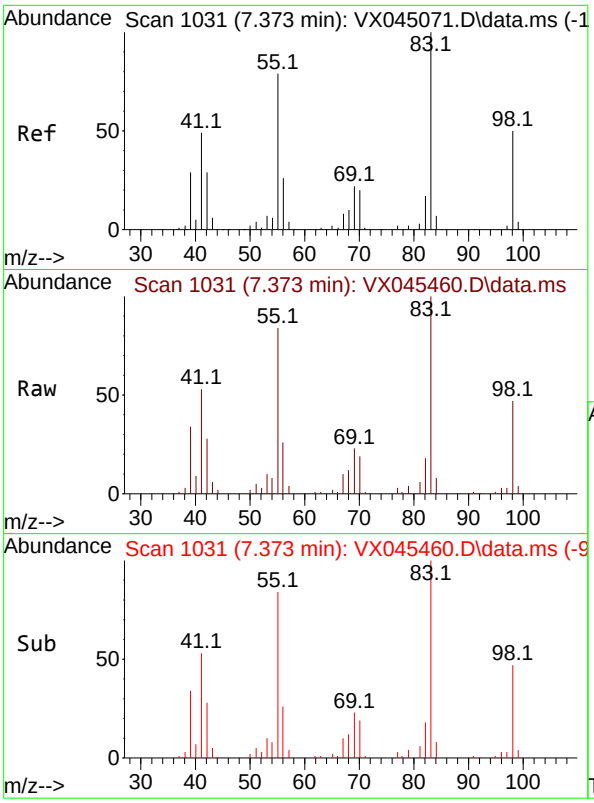


#38
Carbon Tetrachloride
Concen: 20.326 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:117 Resp: 29493

Ion	Ratio	Lower	Upper
117	100		
119	99.9	76.7	115.1
121	32.4	25.5	38.3

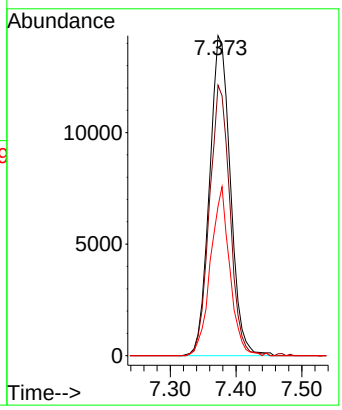




#39
Methylcyclohexane
Concen: 18.531 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 83 Resp: 3173

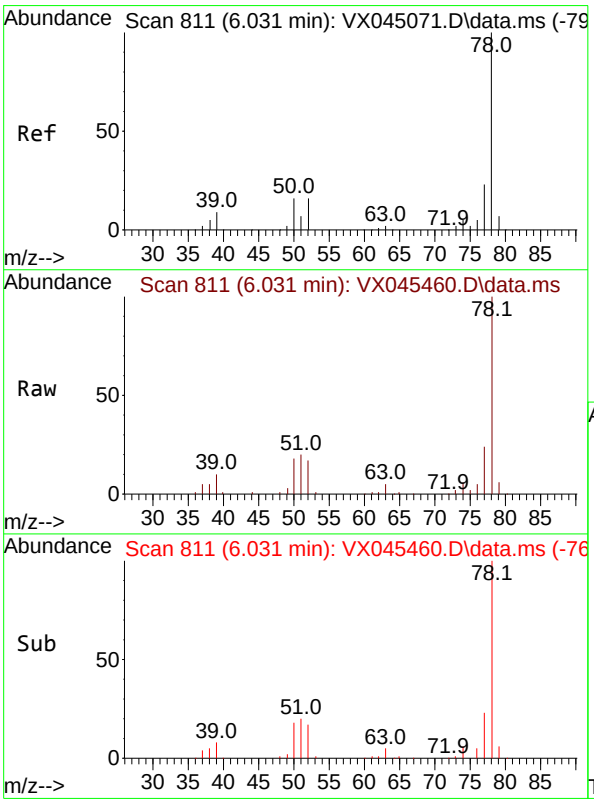
Ion	Ratio	Lower	Upper
83	100		
55	84.5	63.0	94.4
98	46.7	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

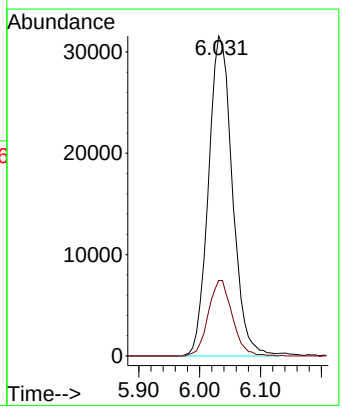
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

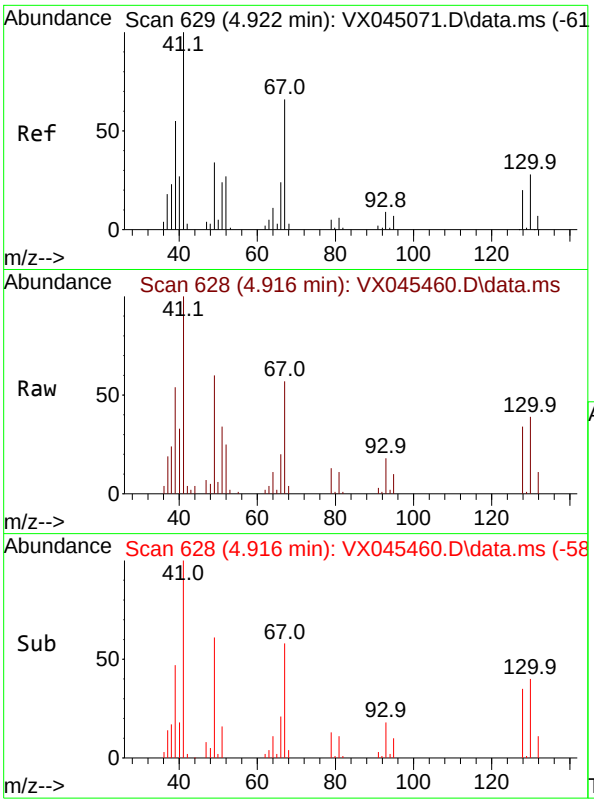


#40
Benzene
Concen: 19.110 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 78 Resp: 86246

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2

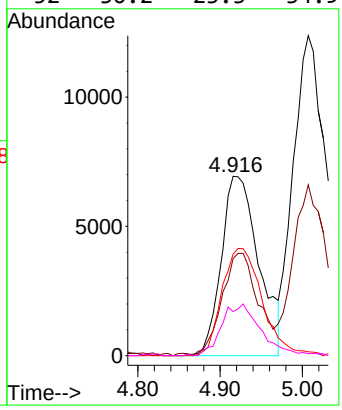




#41
Methacrylonitrile
Concen: 22.162 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 41 Resp: 2206

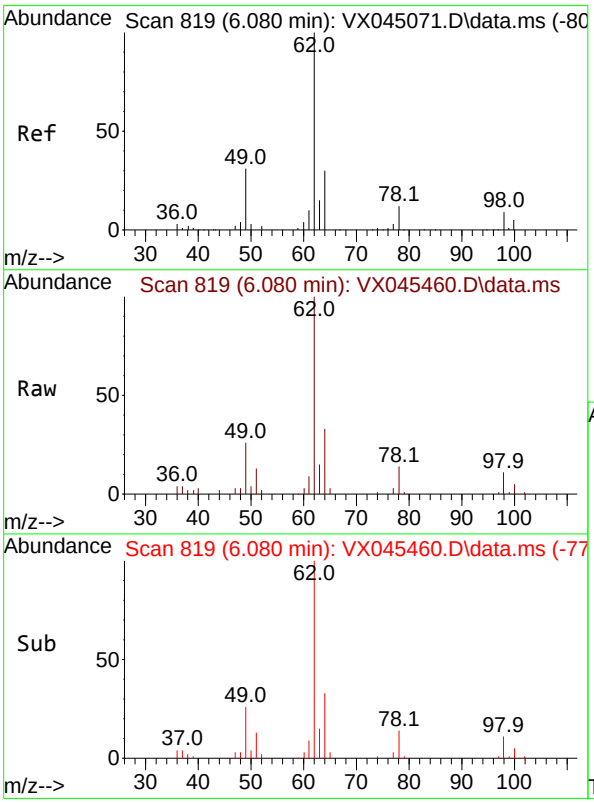
Ion	Ratio	Lower	Upper
41	100		
39	54.6	44.6	67.0
67	64.0	53.9	80.9
52	30.2	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

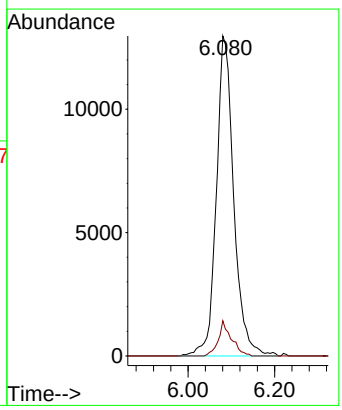
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

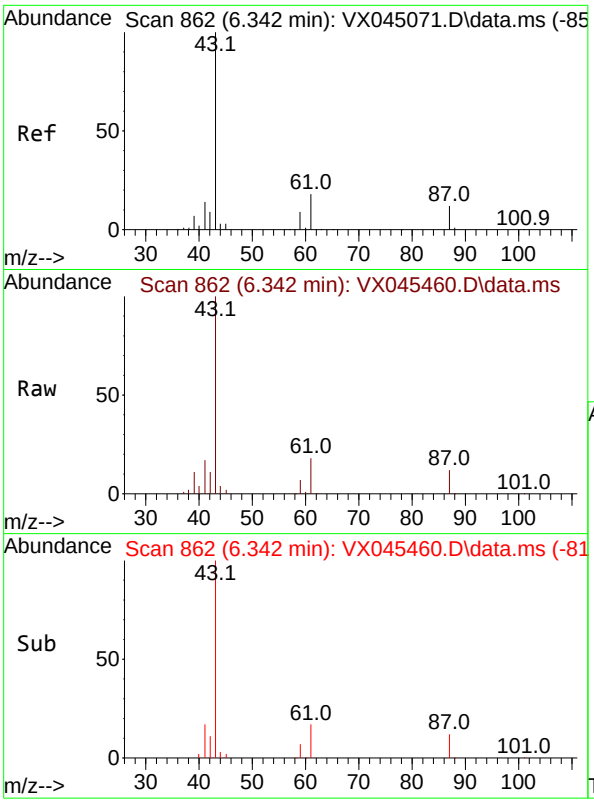


#42
1,2-Dichloroethane
Concen: 22.326 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 62 Resp: 36284

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	18.2





#43
Isopropyl Acetate
Concen: 20.052 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

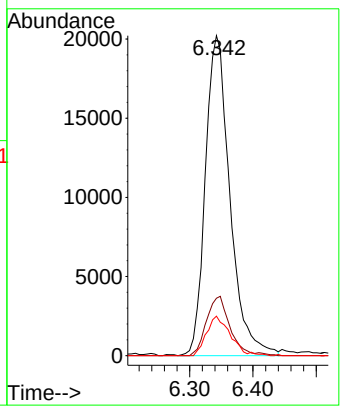
Tgt Ion: 43 Resp: 5460

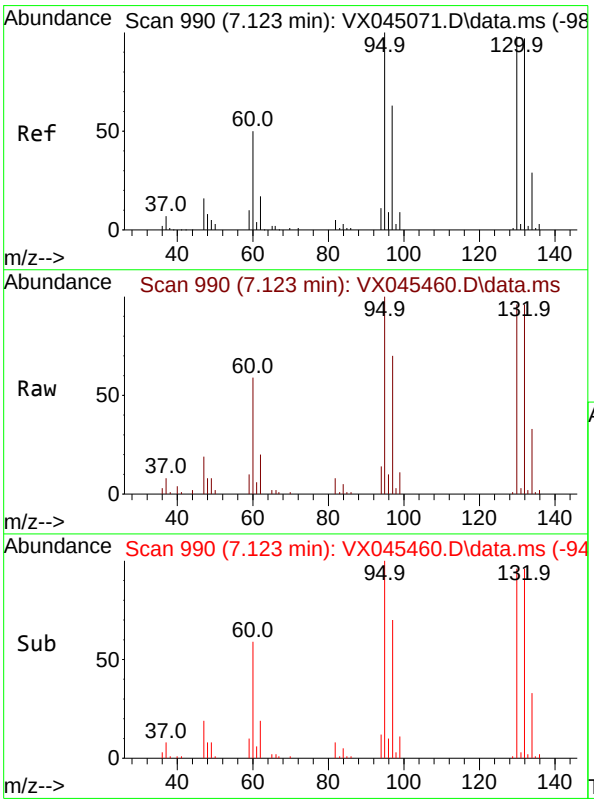
Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.9	22.3
87	12.0	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

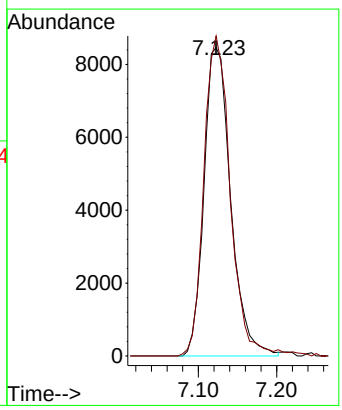


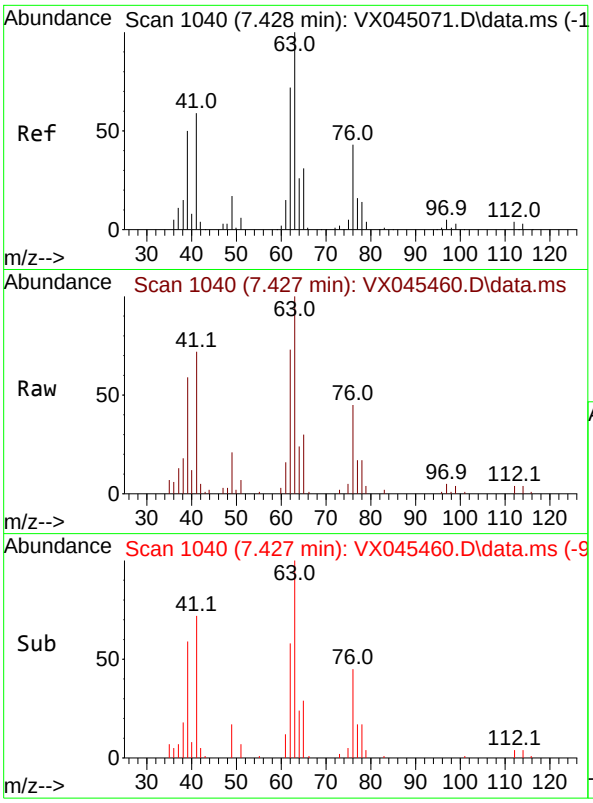


#44
Trichloroethene
Concen: 18.935 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:130 Resp: 20066

Ion	Ratio	Lower	Upper
130	100		
95	103.8	0.0	205.0

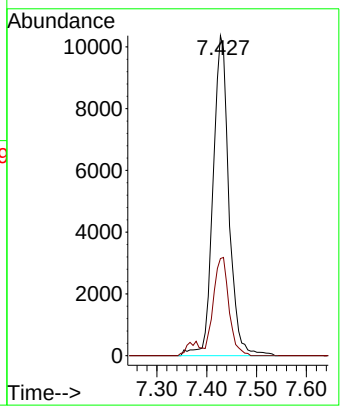




#45
1,2-Dichloropropane
Concen: 19.811 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 63 Resp: 2298

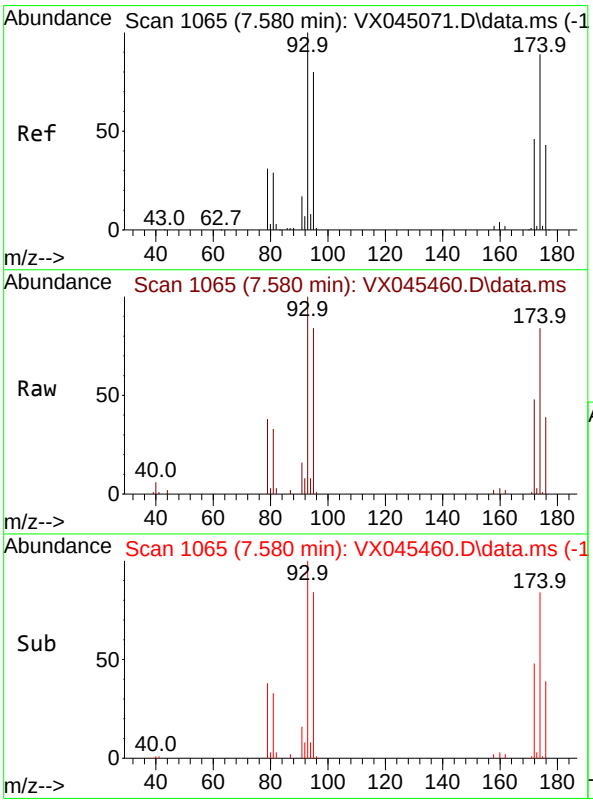
Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

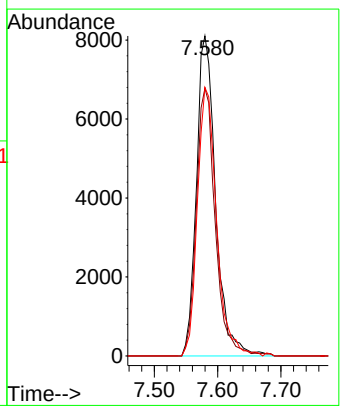
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

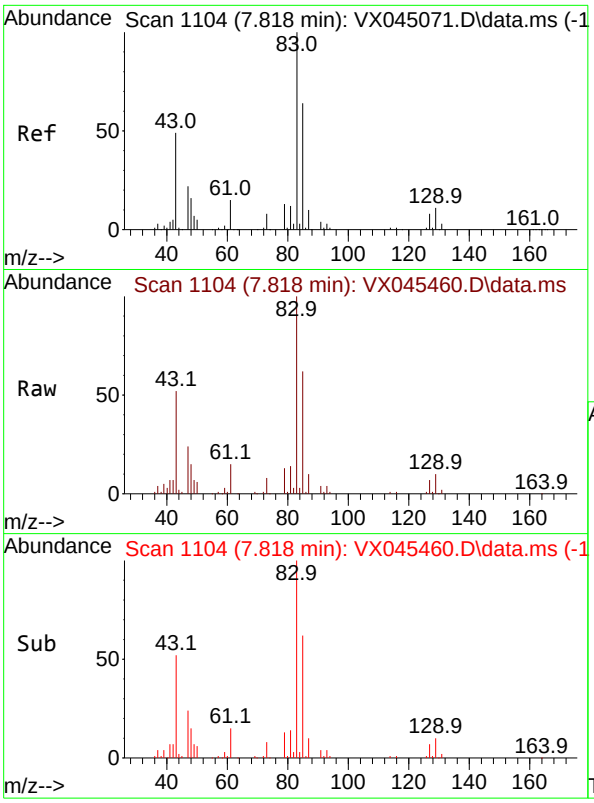


#46
Dibromomethane
Concen: 20.875 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 93 Resp: 17121

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.8	98.8
174	84.0	72.2	108.2

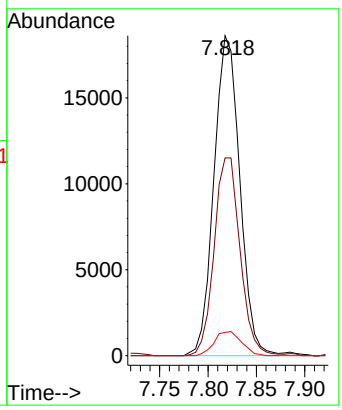




#47
Bromodichloromethane
Concen: 21.480 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 83 Resp: 3455

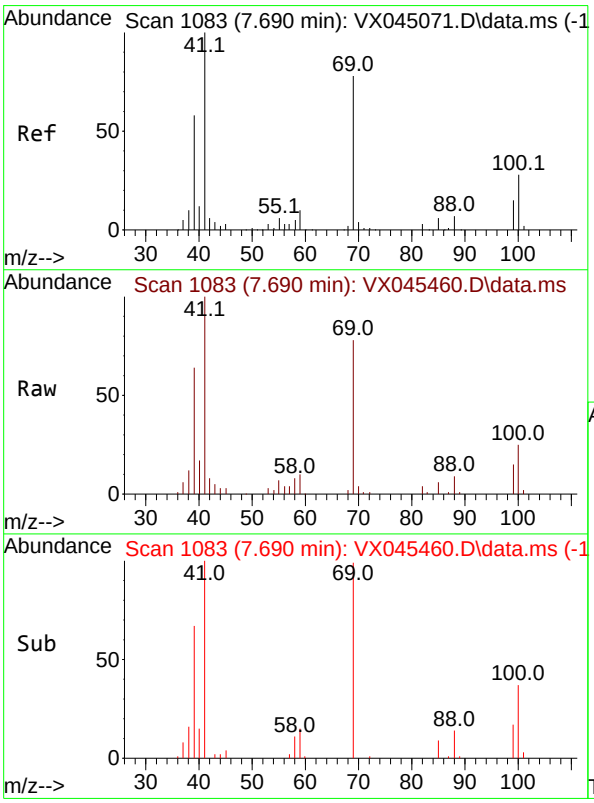
Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	7.2	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

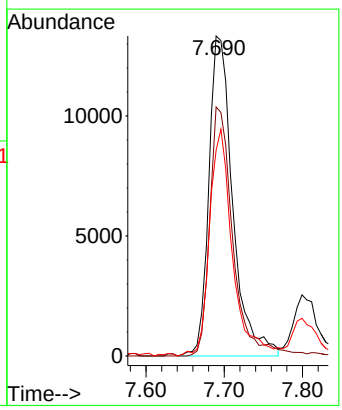
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

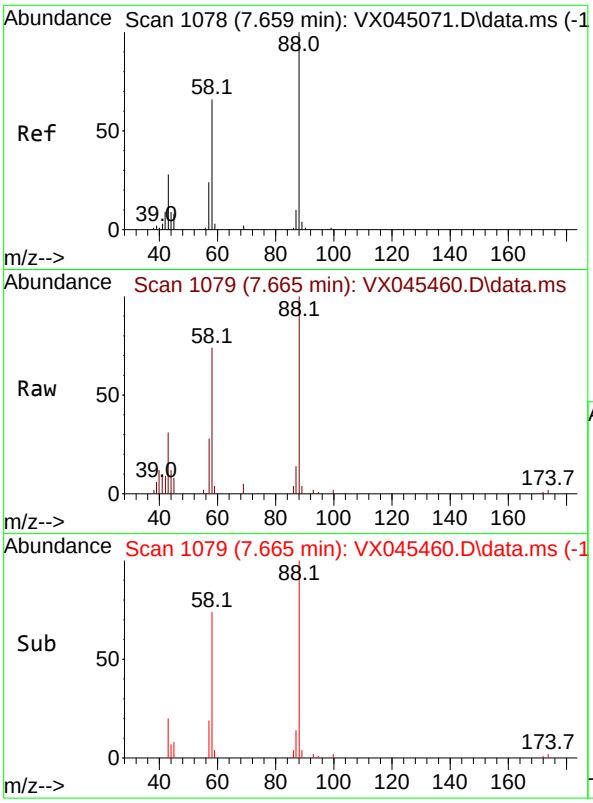


#48
Methyl methacrylate
Concen: 20.690 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 41 Resp: 28268

Ion	Ratio	Lower	Upper
41	100		
69	75.7	63.0	94.6
39	67.5	47.5	71.3





#49
1,4-Dioxane
Concen: 351.704 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

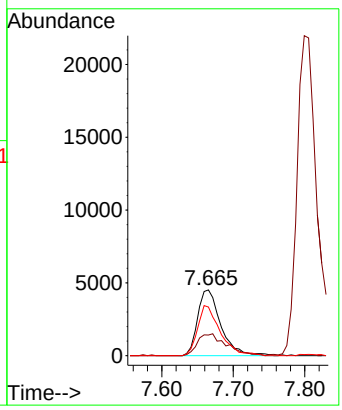
Tgt Ion: 88 Resp: 1013

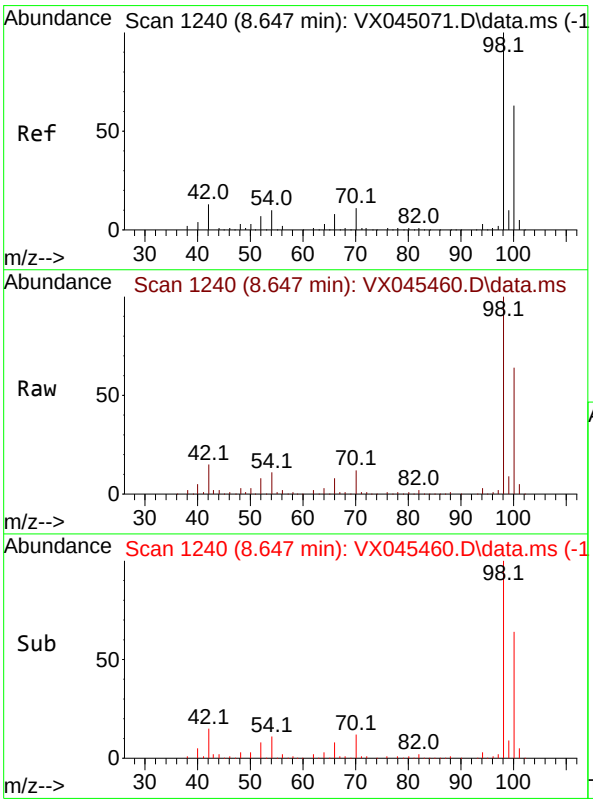
Ion	Ratio	Lower	Upper
88	100		
43	41.4	28.7	43.1
58	74.0	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

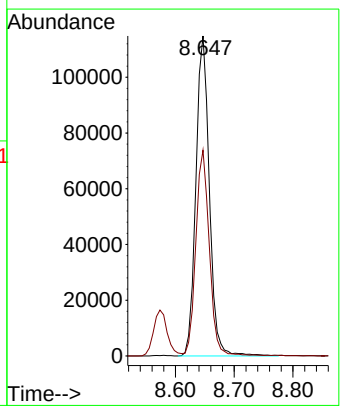


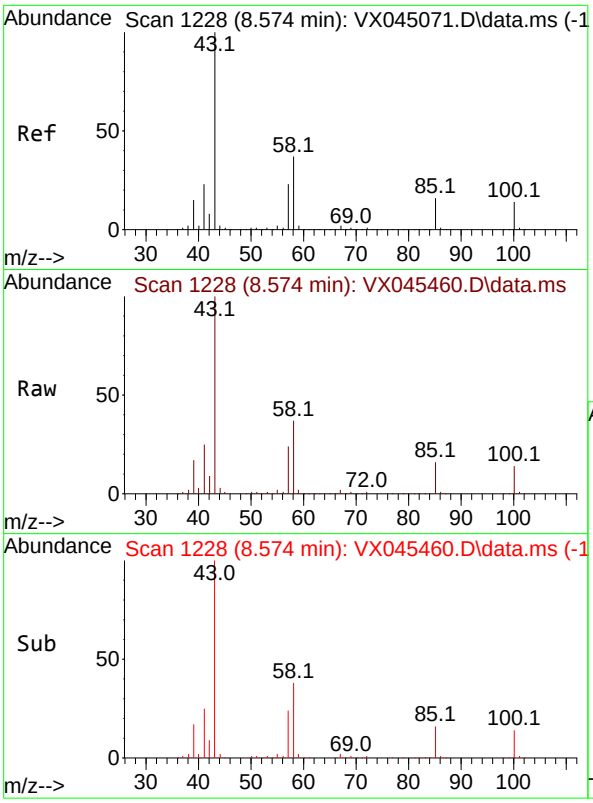


#50
Toluene-d8
Concen: 48.337 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 98 Resp: 182631

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0

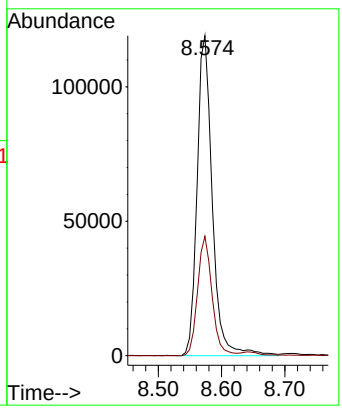




#51
4-Methyl-2-Pentanone
Concen: 109.058 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 19941

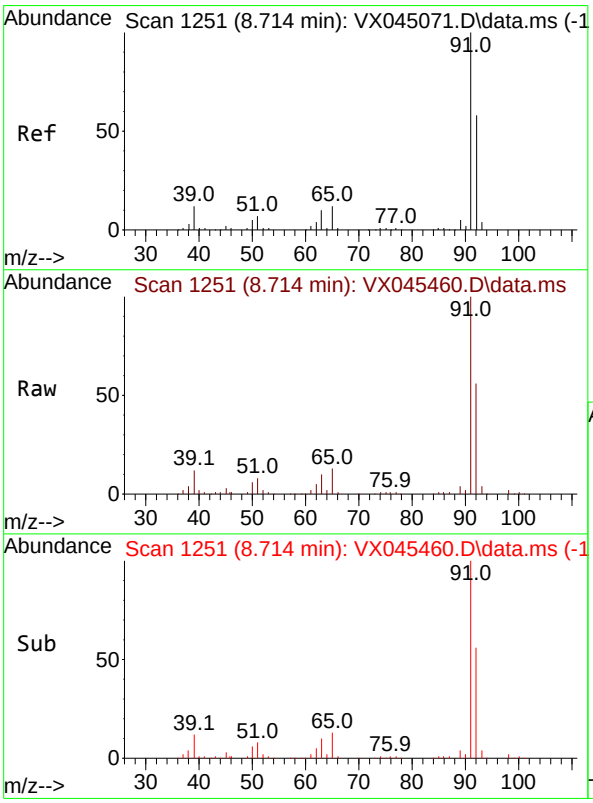
Ion	Ratio	Lower	Upper
43	100		
58	35.4	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

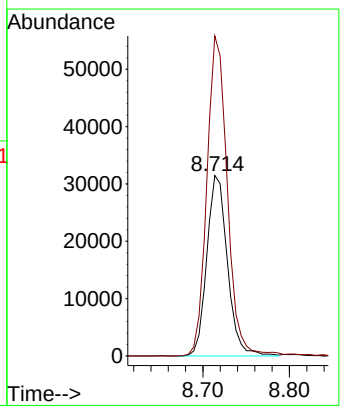
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

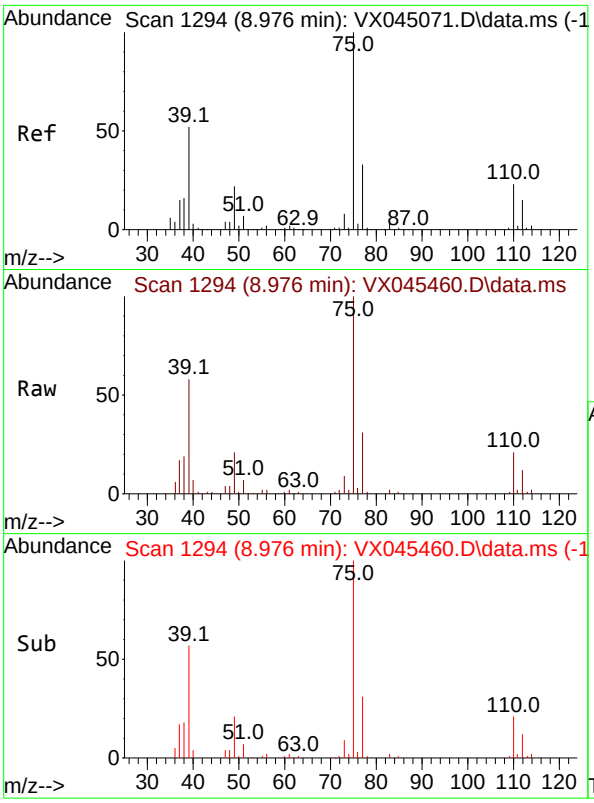


#52
Toluene
Concen: 19.678 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 92 Resp: 52106

Ion	Ratio	Lower	Upper
92	100		
91	177.1	138.9	208.3

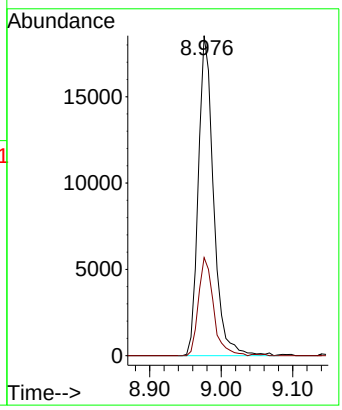




#53
t-1,3-Dichloropropene
Concen: 20.430 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 2747

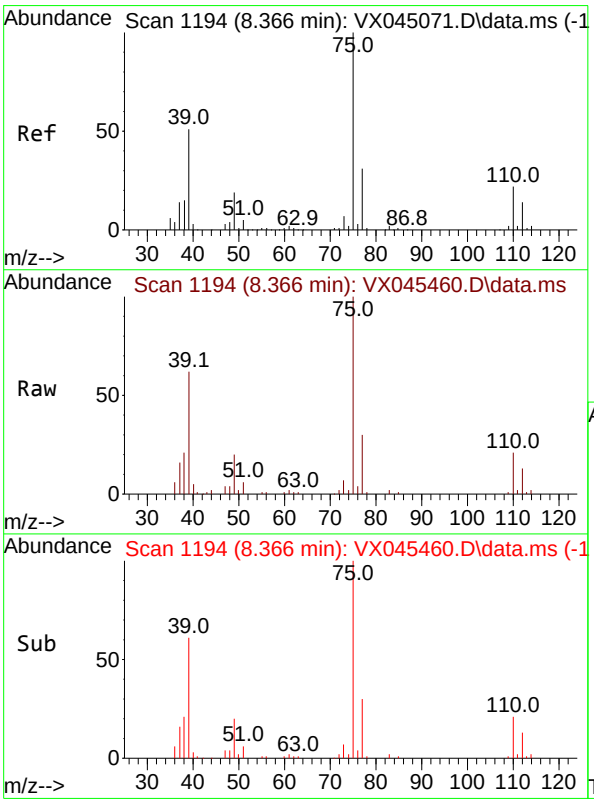
Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

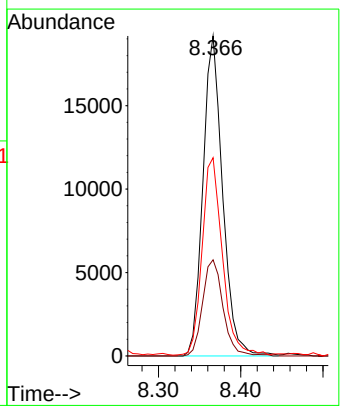
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

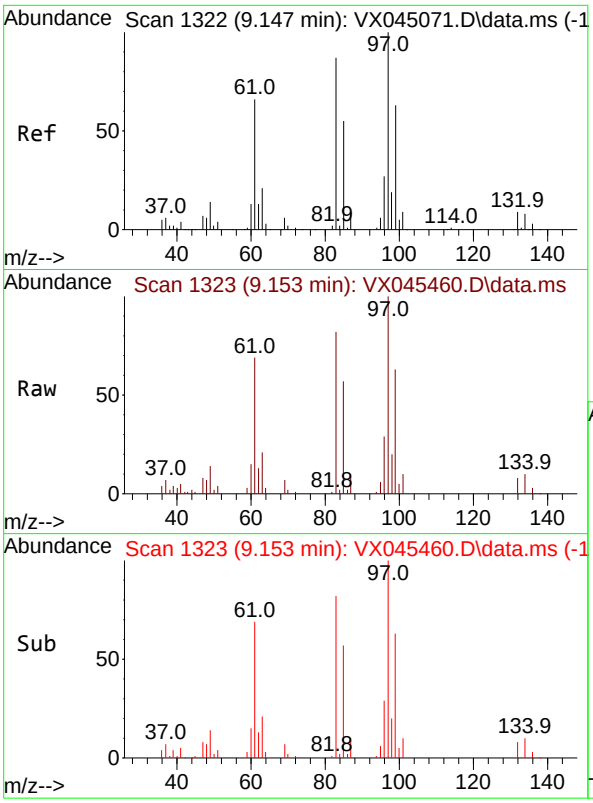


#54
cis-1,3-Dichloropropene
Concen: 20.346 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 31909

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.7	37.1
39	61.6	40.7	61.1#

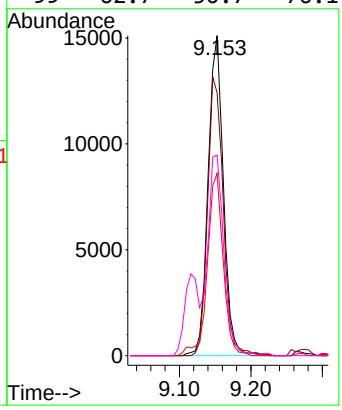




#55
1,1,2-Trichloroethane
Concen: 20.683 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 97 Resp: 2254

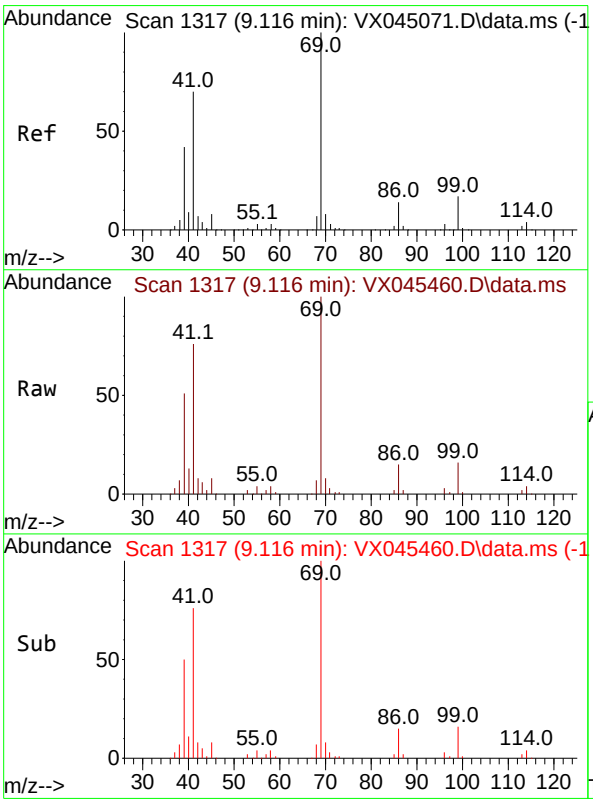
Ion	Ratio	Lower	Upper
97	100		
83	82.2	69.4	104.2
85	56.9	44.1	66.1
99	62.7	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

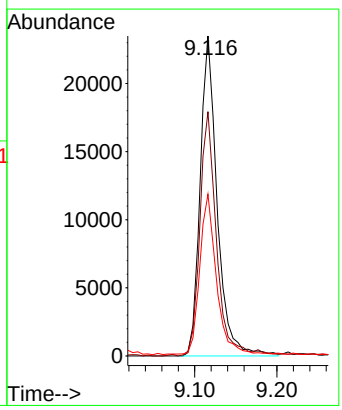
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

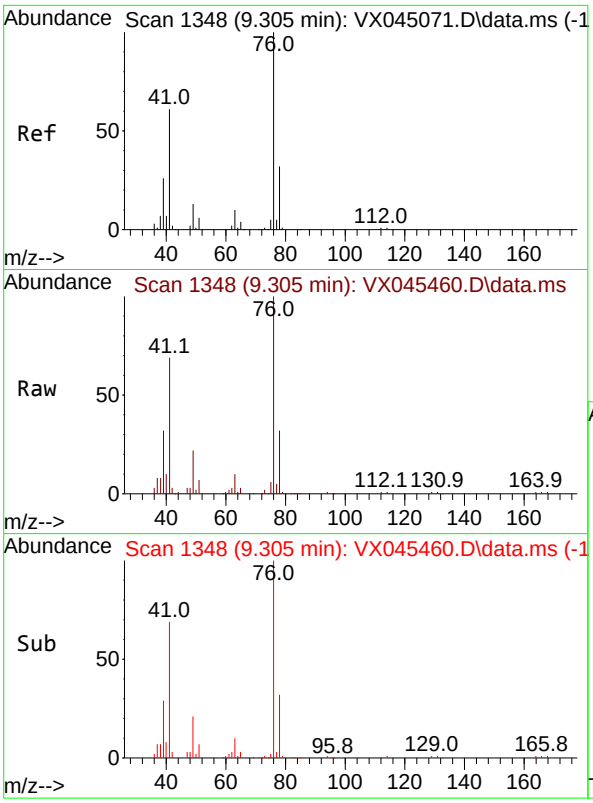


#56
Ethyl methacrylate
Concen: 20.393 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 69 Resp: 33792

Ion	Ratio	Lower	Upper
69	100		
41	75.3	57.0	85.4
39	48.9	34.2	51.4





#57
1,3-Dichloropropane
Concen: 20.731 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

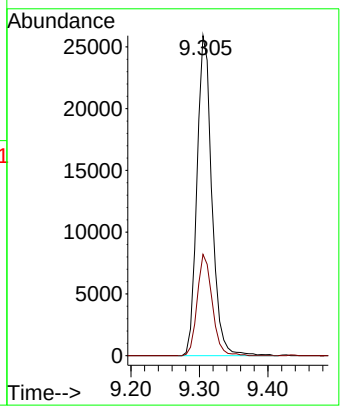
Tgt Ion: 76 Resp: 3910

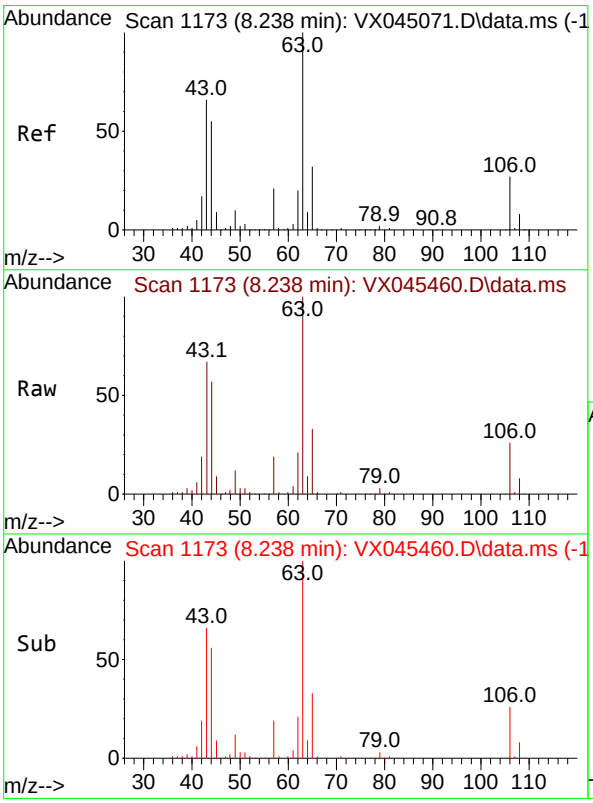
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

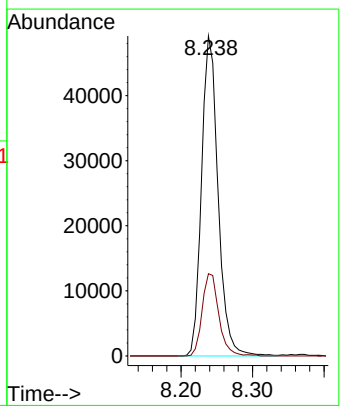


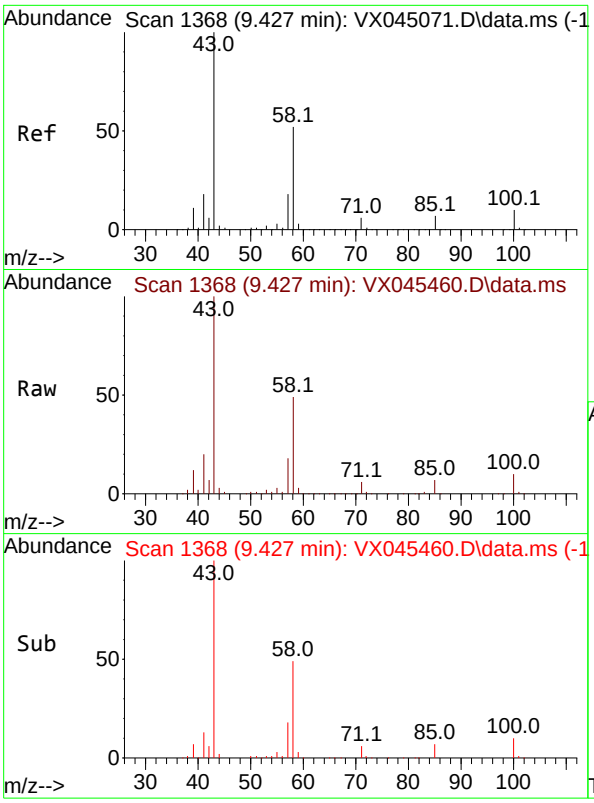


#58
2-Chloroethyl Vinyl ether
Concen: 97.641 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 63 Resp: 78925

Ion	Ratio	Lower	Upper
63	100		
106	25.9	21.5	32.3

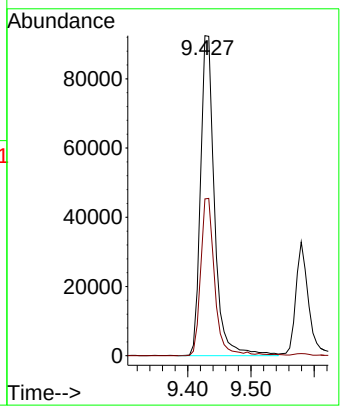




#59
2-Hexanone
Concen: 107.905 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 14295

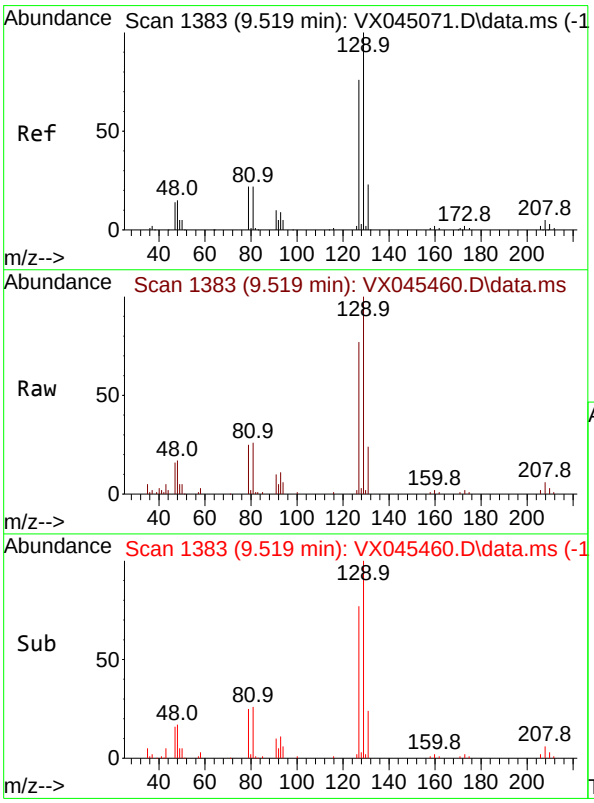
Ion	Ratio	Lower	Upper
43	100		
58	48.7	25.9	77.6



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

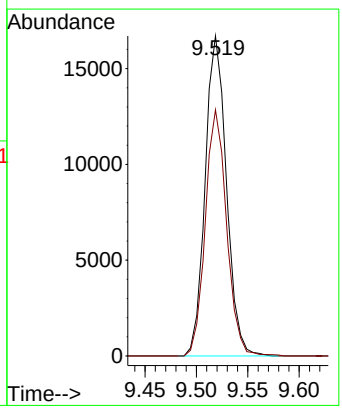
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

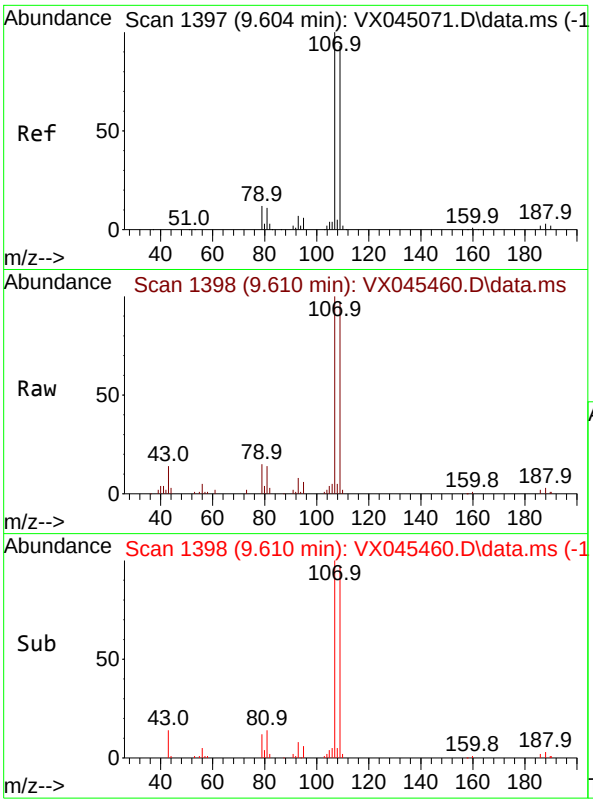


#60
Dibromochloromethane
Concen: 21.089 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:129 Resp: 24038

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5

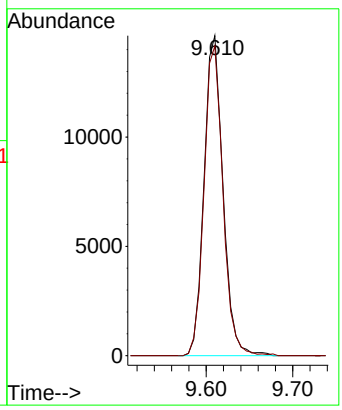




#61
1,2-Dibromoethane
Concen: 20.441 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:107 Resp: 2224

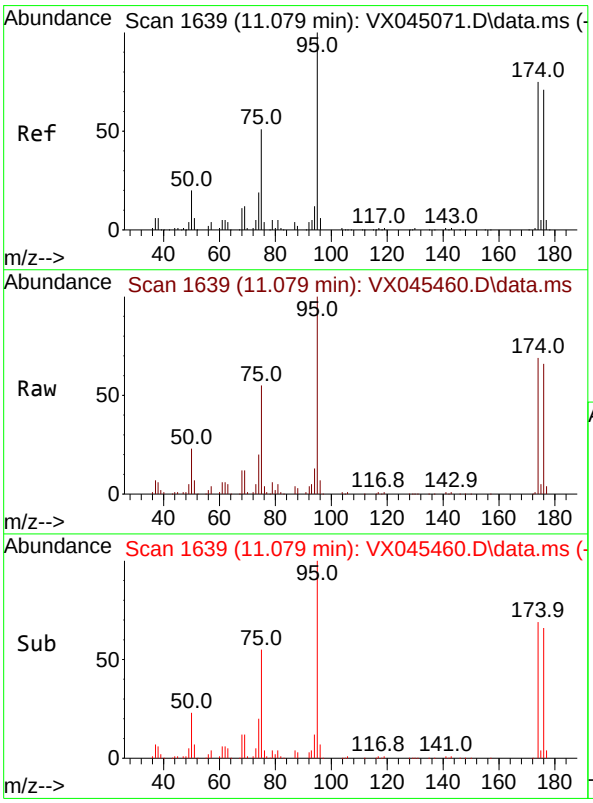
Ion	Ratio	Lower	Upper
107	100		
109	96.6	76.1	114.1



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

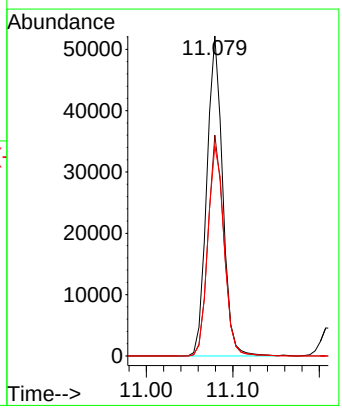
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

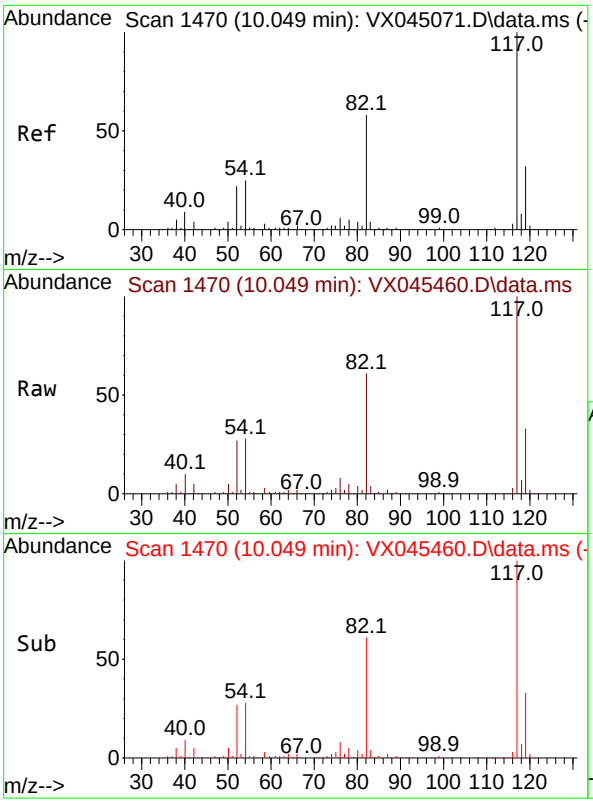


#62
4-Bromofluorobenzene
Concen: 52.753 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 95 Resp: 66047

Ion	Ratio	Lower	Upper
95	100		
174	68.6	0.0	148.2
176	67.7	0.0	141.4

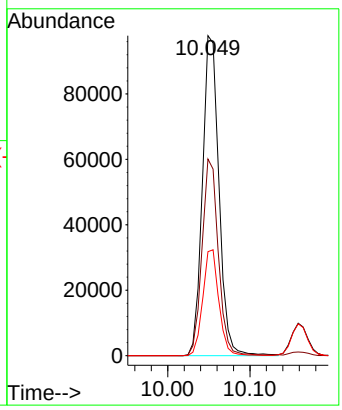




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:117 Resp: 13693

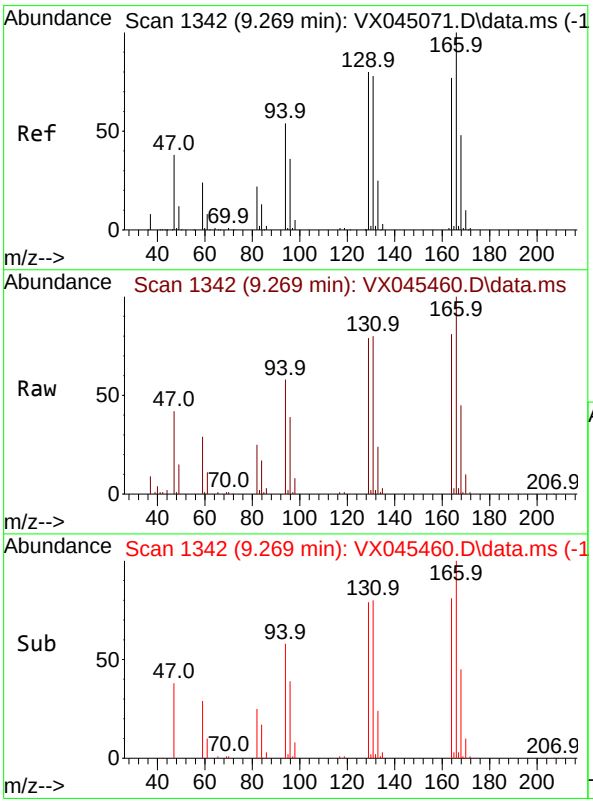
Ion	Ratio	Lower	Upper
117	100		
82	61.4	46.3	69.5
119	32.5	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

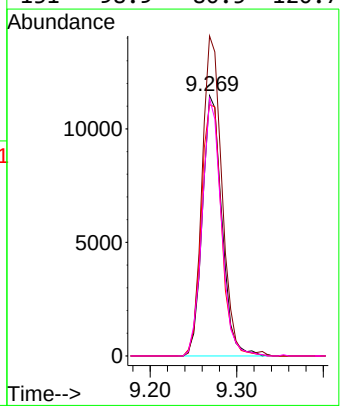
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

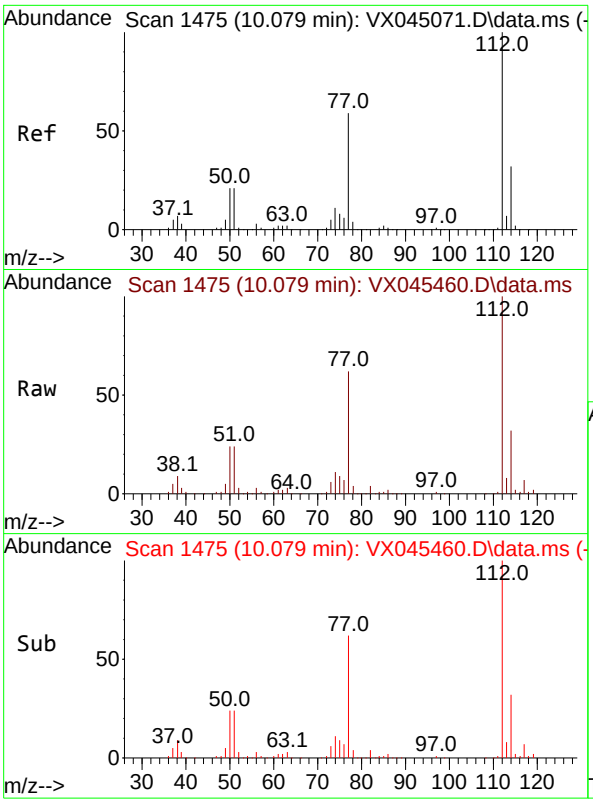


#64
Tetrachloroethene
Concen: 20.382 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:164 Resp: 17875

Ion	Ratio	Lower	Upper
164	100		
166	122.9	103.6	155.4
129	96.5	82.7	124.1
131	98.9	80.5	120.7

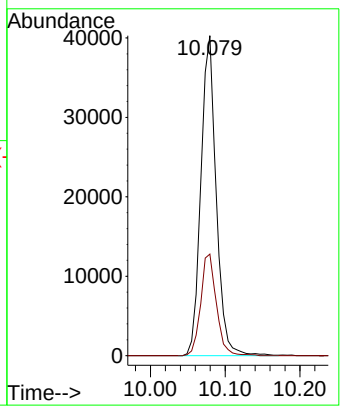




#65
Chlorobenzene
Concen: 19.767 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:112 Resp: 5727

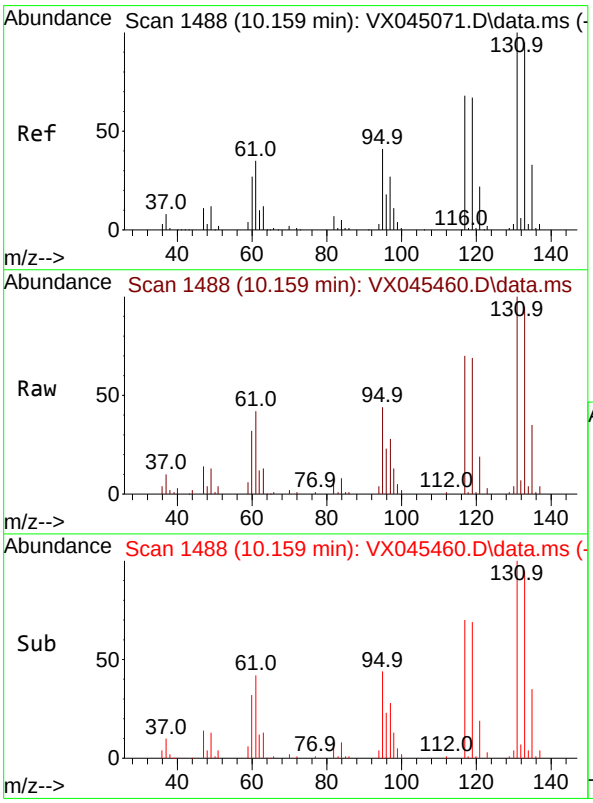
Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

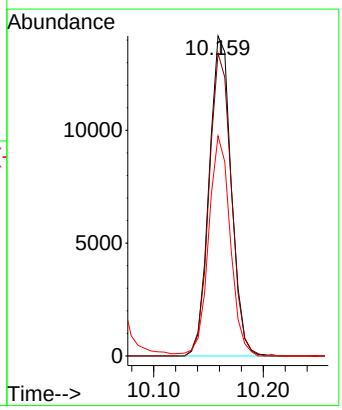
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

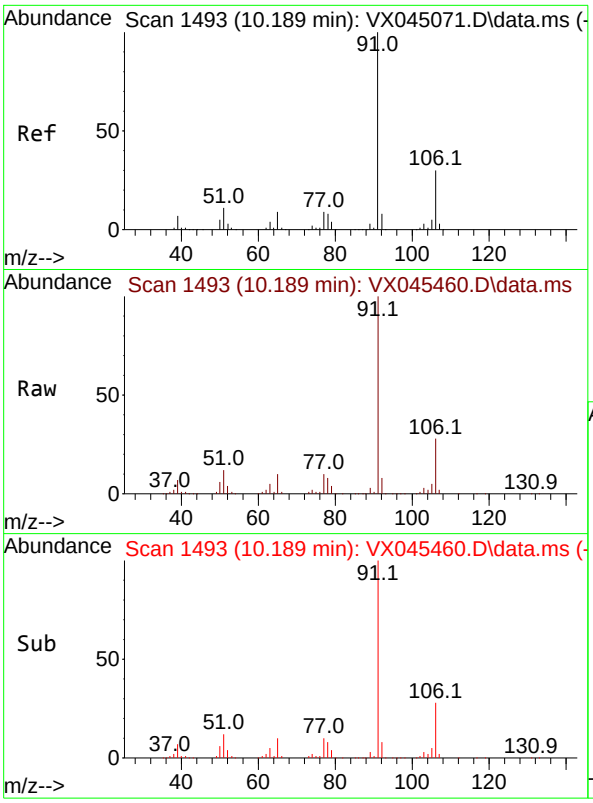


#66
1,1,1,2-Tetrachloroethane
Concen: 20.594 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:131 Resp: 19871

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.6	145.9
119	67.3	33.9	101.7

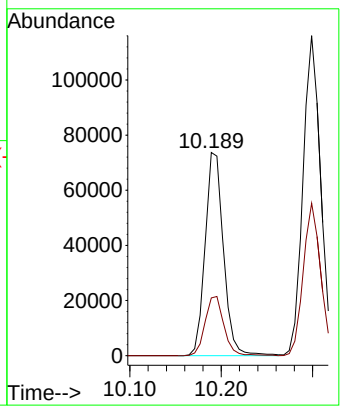




#67
Ethyl Benzene
Concen: 20.364 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 91 Resp: 10281

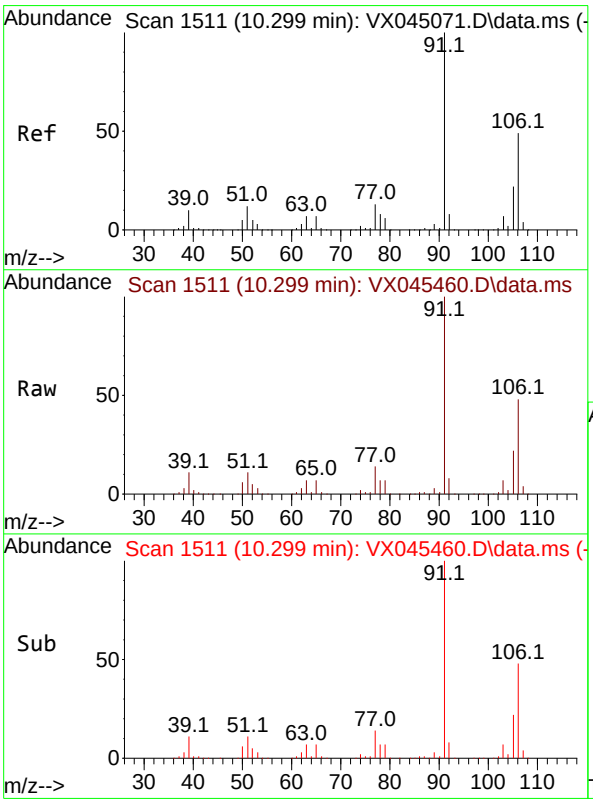
Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

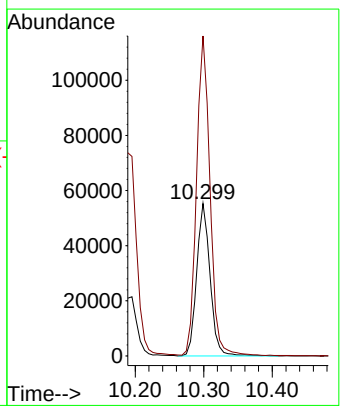
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

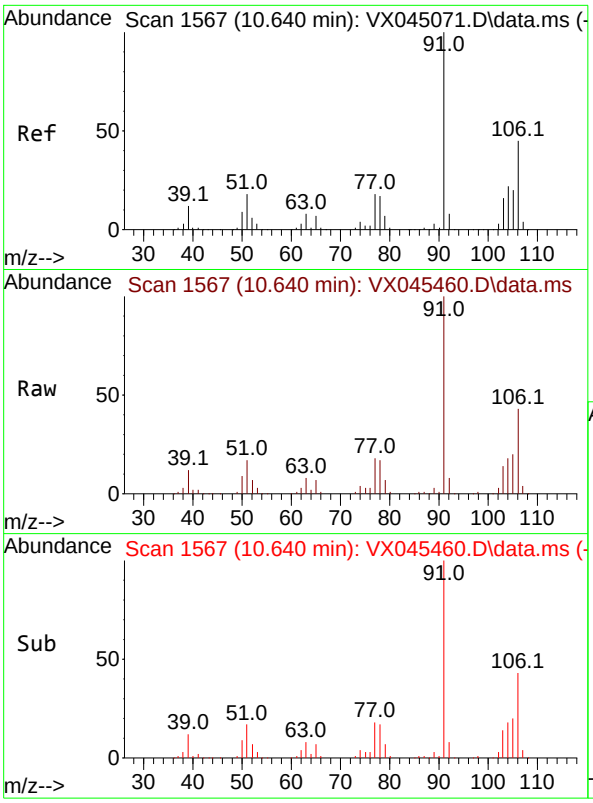


#68
m/p-Xylenes
Concen: 40.767 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:106 Resp: 75344

Ion	Ratio	Lower	Upper
106	100		
91	210.6	165.4	248.0

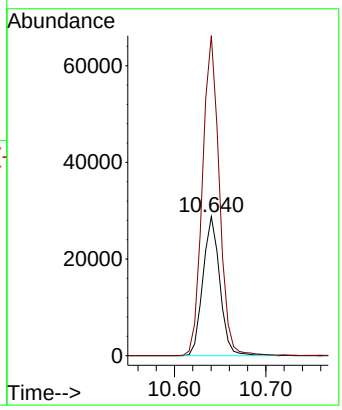




#69
o-Xylene
Concen: 19.798 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:106 Resp: 3690

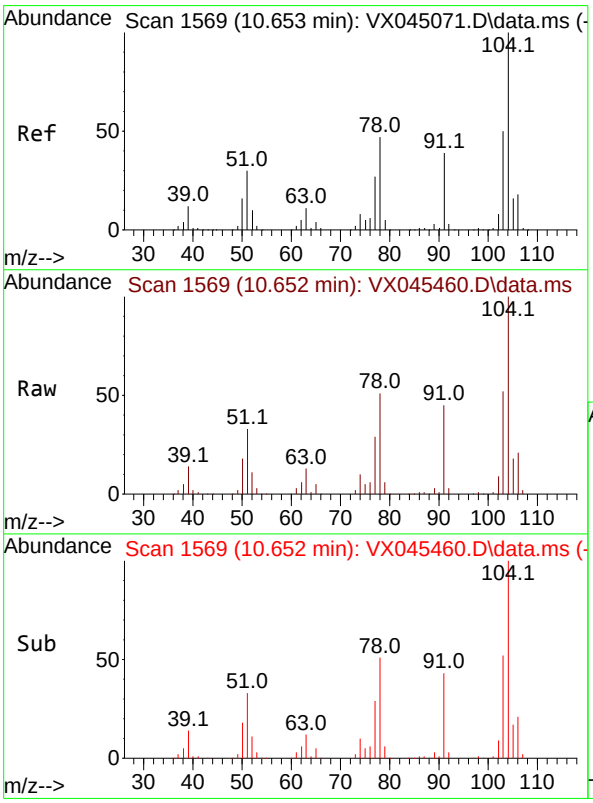
Ion	Ratio	Lower	Upper
106	100		
91	230.3	109.9	329.6



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

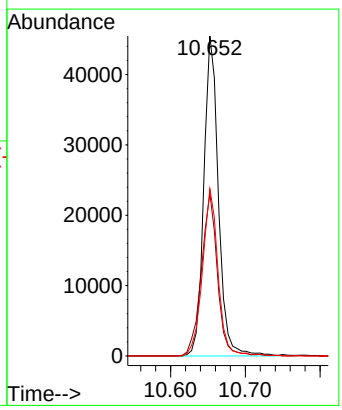
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

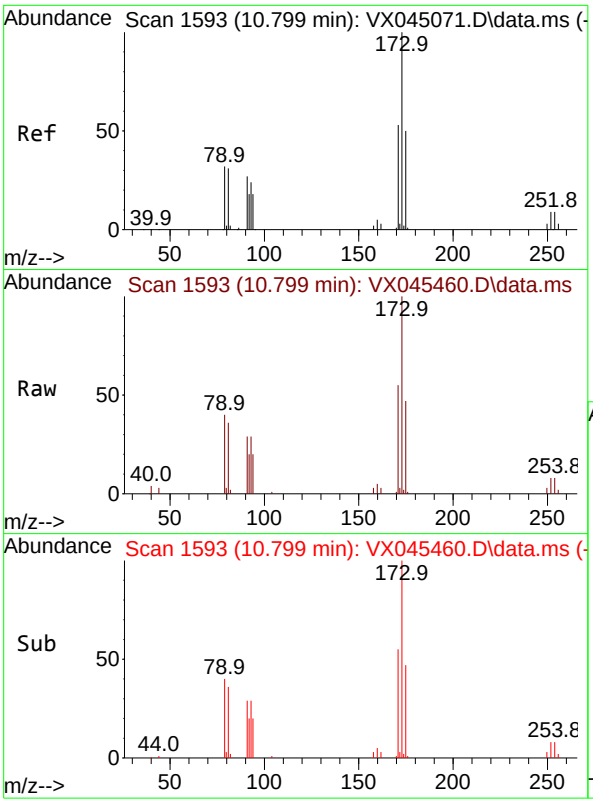


#70
Styrene
Concen: 20.504 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:104 Resp: 61842

Ion	Ratio	Lower	Upper
104	100		
78	56.0	42.2	63.4
103	55.7	43.8	65.8

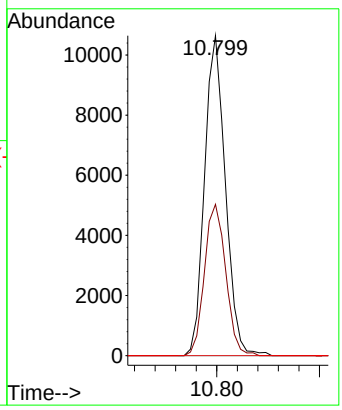




#71
Bromoform
Concen: 20.555 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:173 Resp: 1495

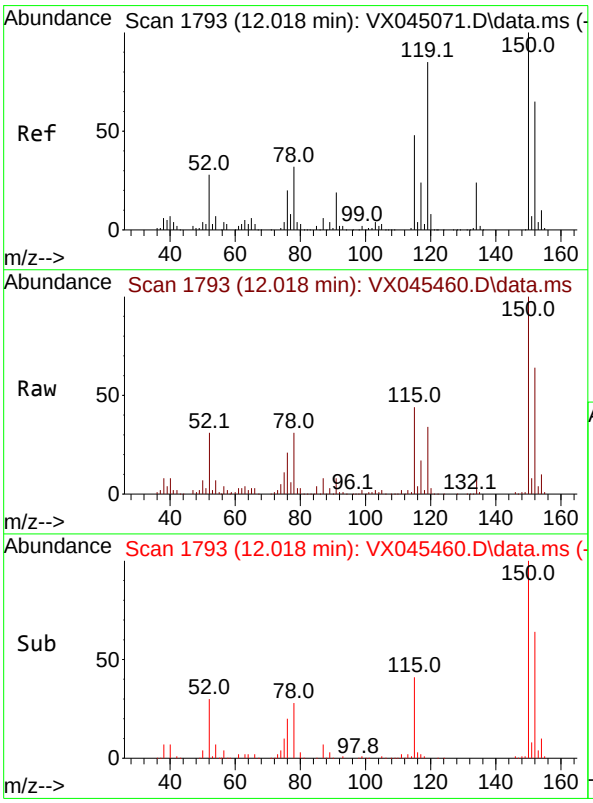
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.6	73.6
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

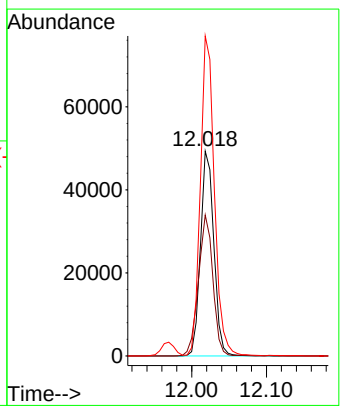
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

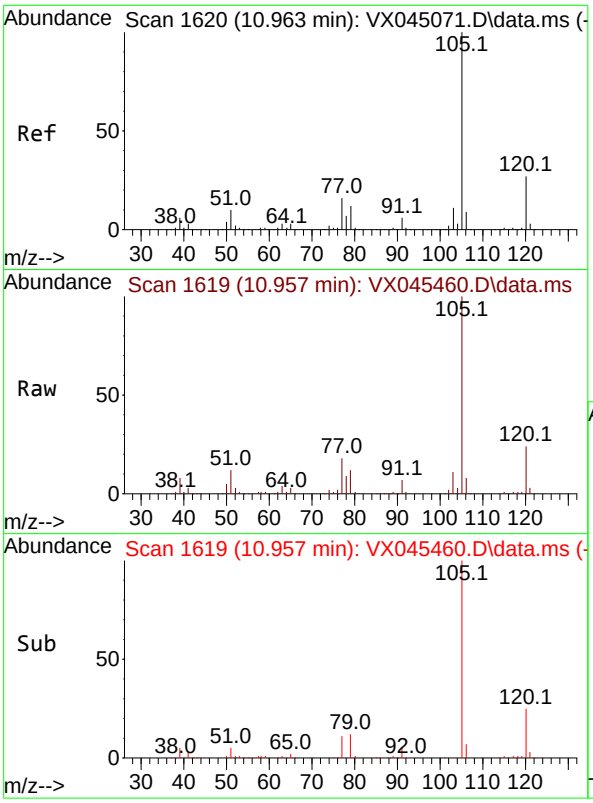


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:152 Resp: 61262

Ion	Ratio	Lower	Upper
152	100		
115	74.3	44.2	132.6
150	163.5	0.0	349.0

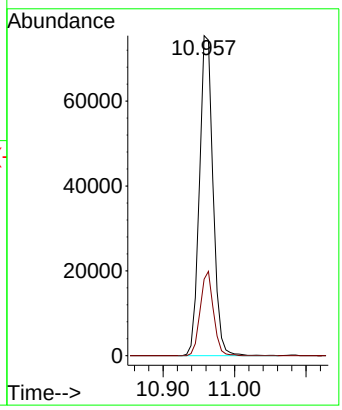




#73
Isopropylbenzene
Concen: 20.856 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:105 Resp: 9972

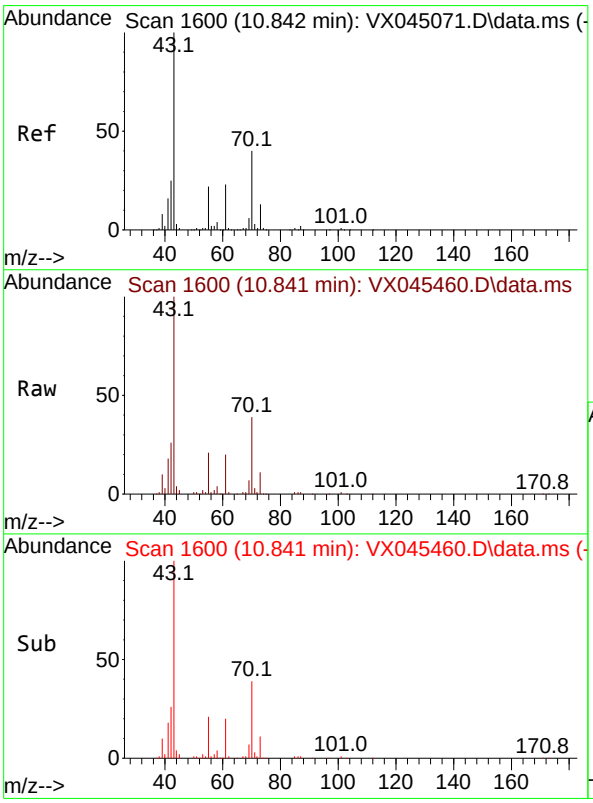
Ion	Ratio	Lower	Upper
105	100		
120	25.5	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

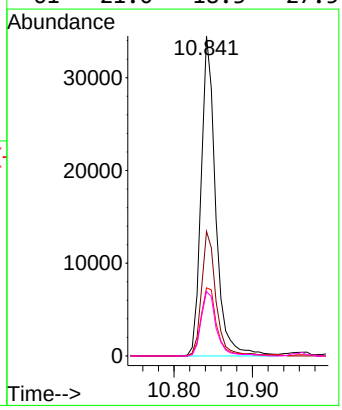
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

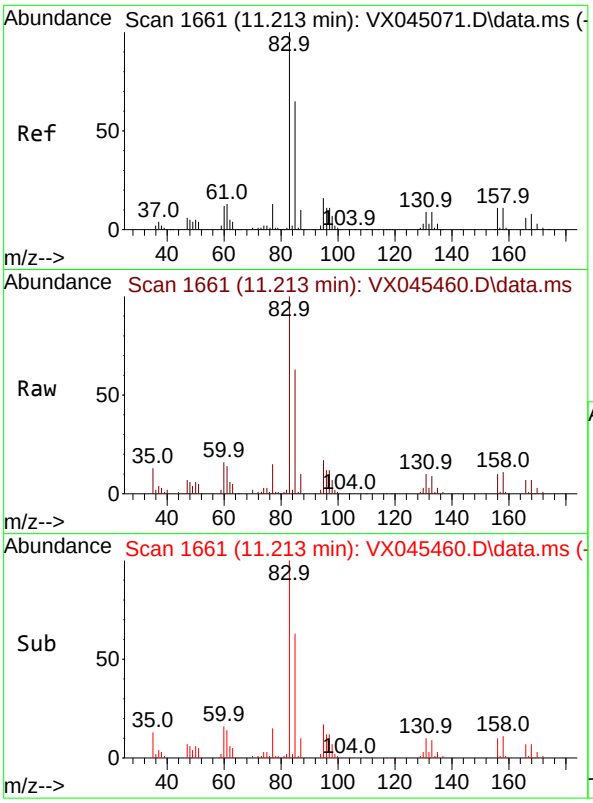


#74
N-amyl acetate
Concen: 19.807 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 44441

Ion	Ratio	Lower	Upper
43	100		
70	38.7	31.8	47.6
55	23.4	18.3	27.5
61	21.0	18.3	27.5

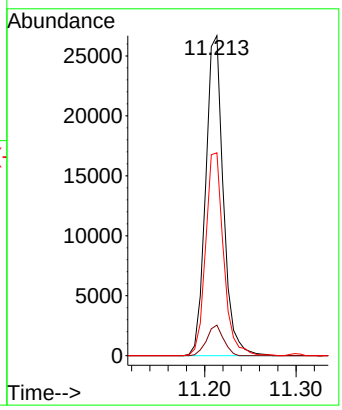




#75
1,1,2,2-Tetrachloroethane
Concen: 20.368 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 83 Resp: 3574

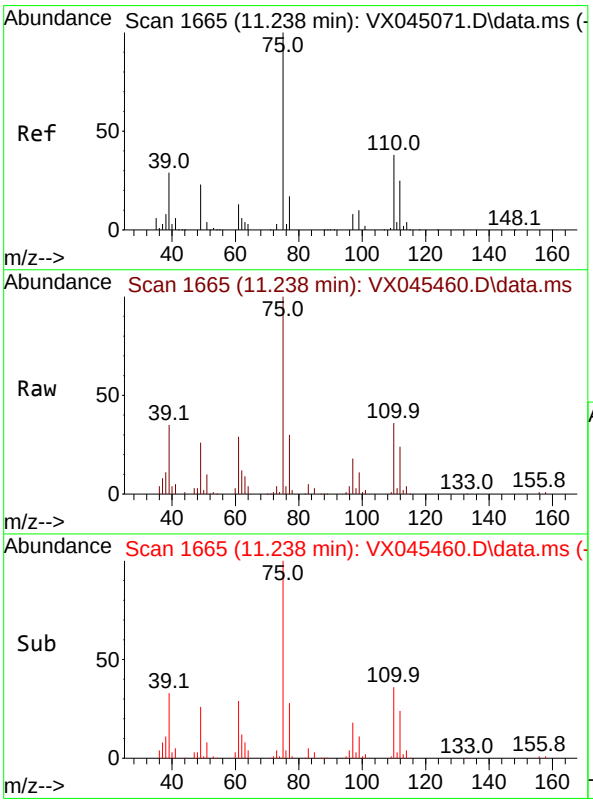
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.4
85	64.5	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

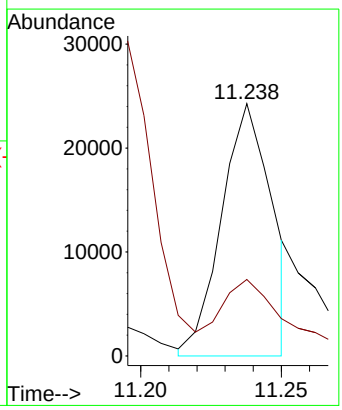
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

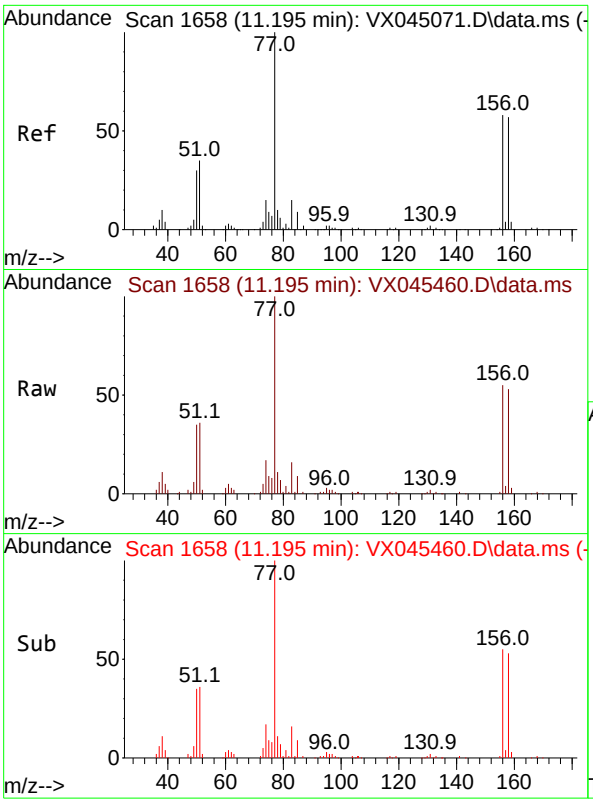


#76
1,2,3-Trichloropropane
Concen: 21.201 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 30230

Ion	Ratio	Lower	Upper
75	100		
77	40.2	20.7	62.1

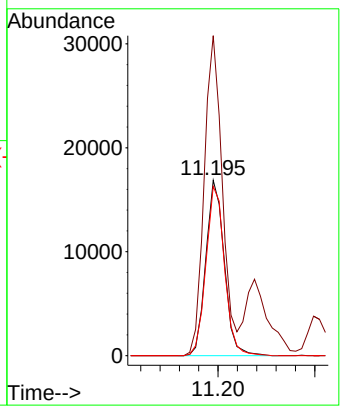




#77
Bromobenzene
Concen: 19.848 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:156 Resp: 2239

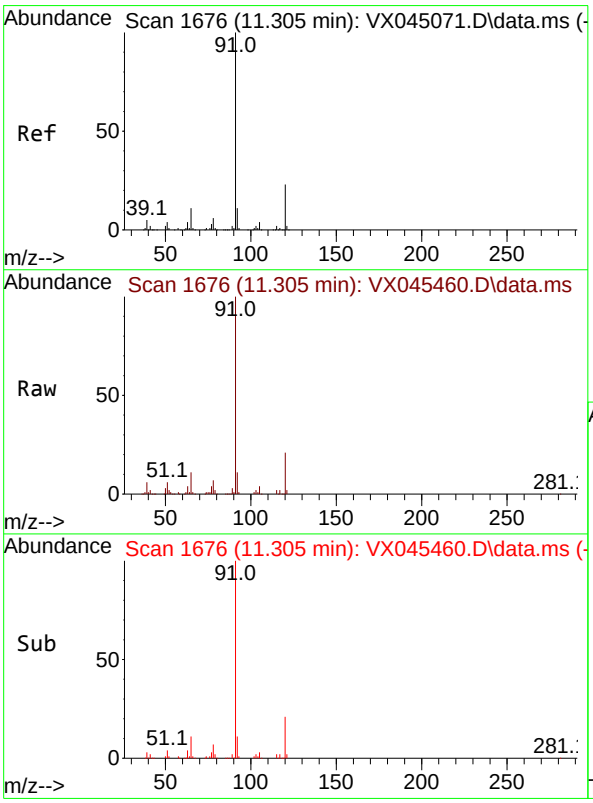
Ion	Ratio	Lower	Upper
156	100		
77	179.1	85.8	257.4
158	97.4	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

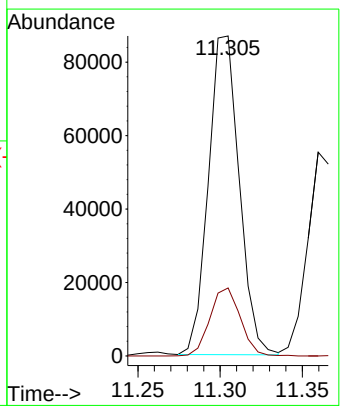
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

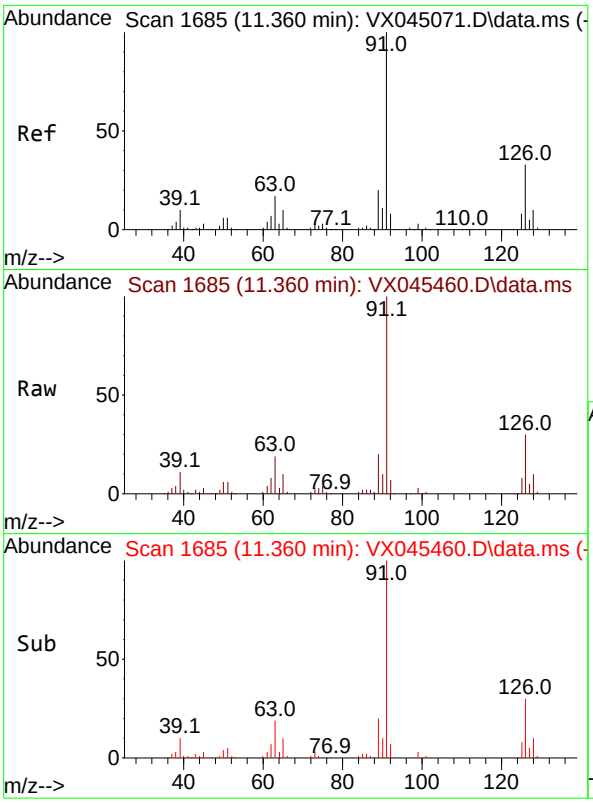


#78
n-propylbenzene
Concen: 20.970 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 91 Resp: 113273

Ion	Ratio	Lower	Upper
91	100		
120	21.0	11.2	33.6

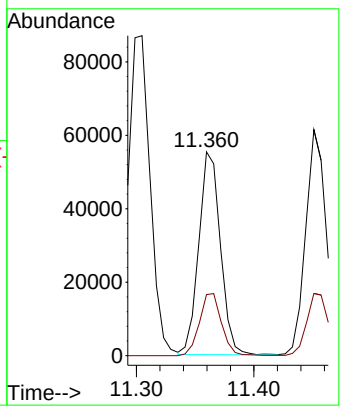




#79
2-Chlorotoluene
Concen: 20.568 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 91 Resp: 7075

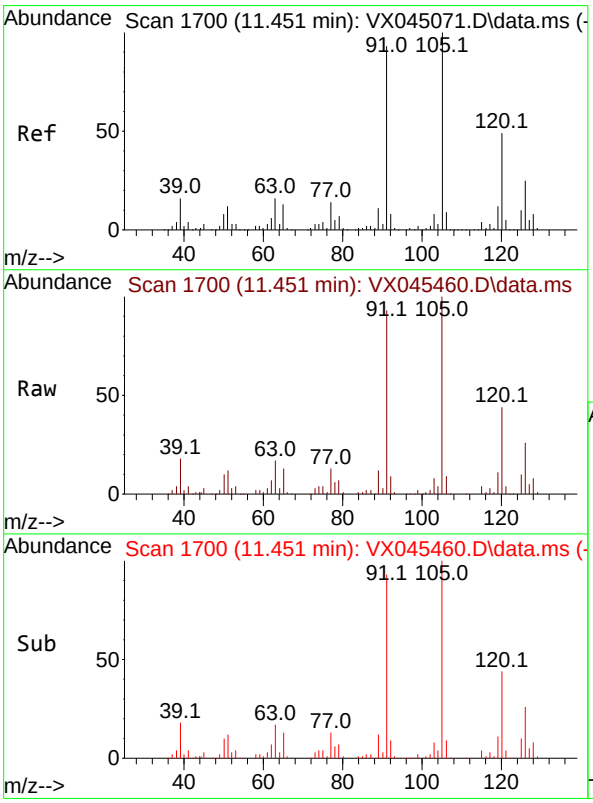
Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.4	49.4



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

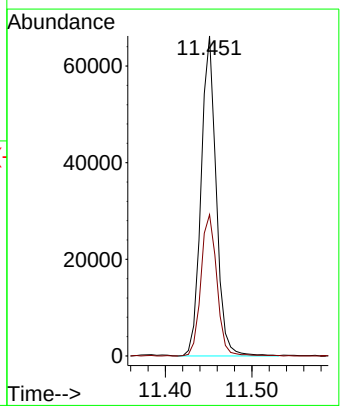
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

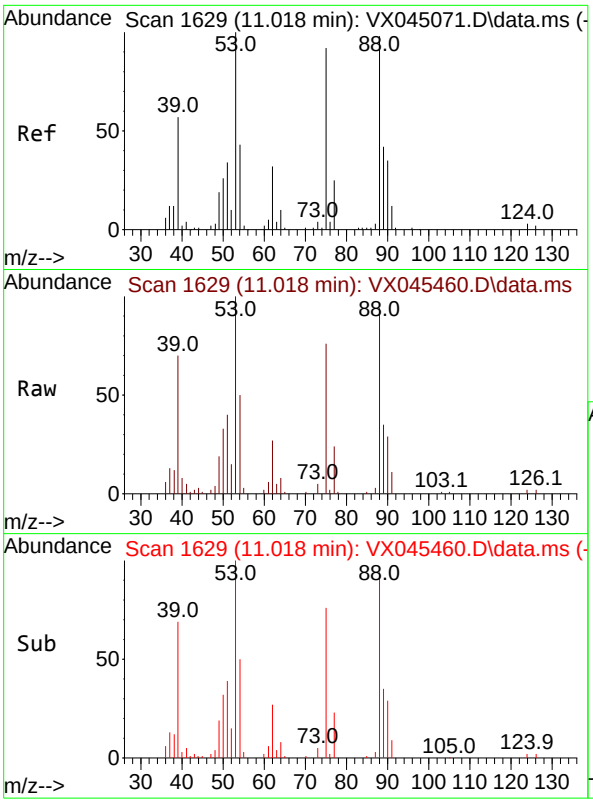


#80
1,3,5-Trimethylbenzene
Concen: 20.751 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:105 Resp: 80231

Ion	Ratio	Lower	Upper
105	100		
120	46.6	24.1	72.2

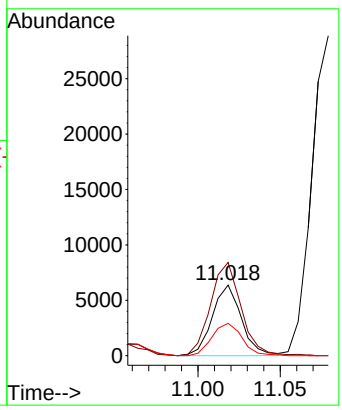




#81
trans-1,4-Dichloro-2-butene
Concen: 18.922 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 788

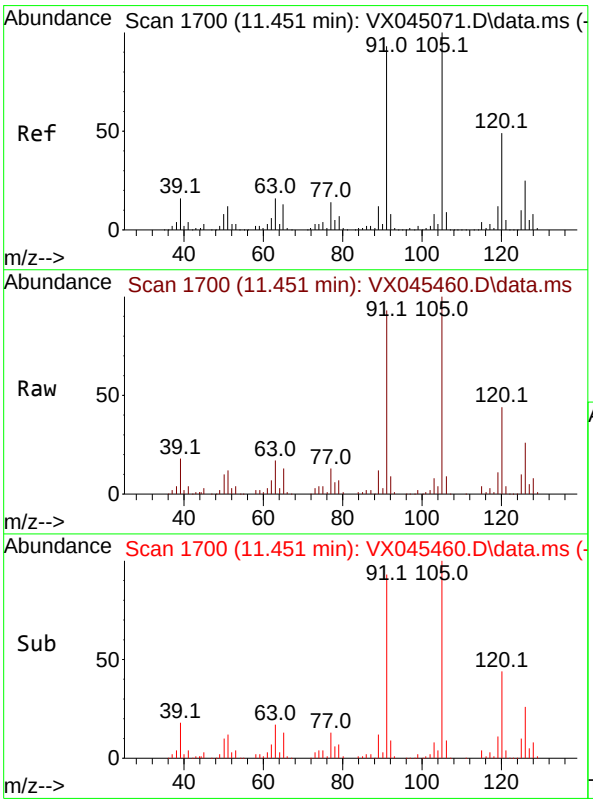
Ion	Ratio	Lower	Upper
75	100		
53	138.4	88.5	132.7
89	47.1	36.2	54.4



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

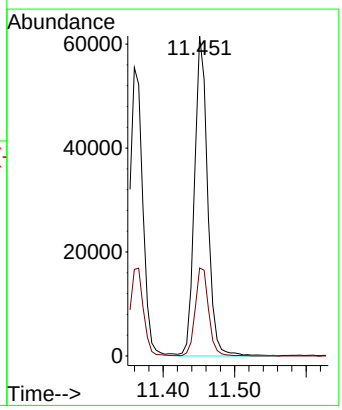
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

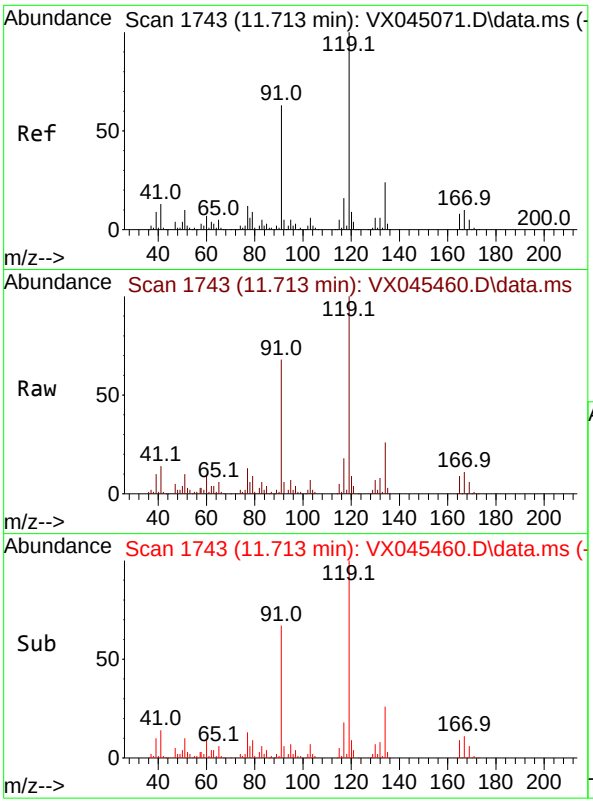


#82
4-Chlorotoluene
Concen: 20.848 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 91 Resp: 78163

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.4

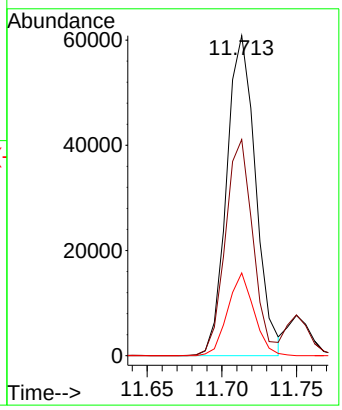




#83
tert-Butylbenzene
Concen: 20.611 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:119 Resp: 8187

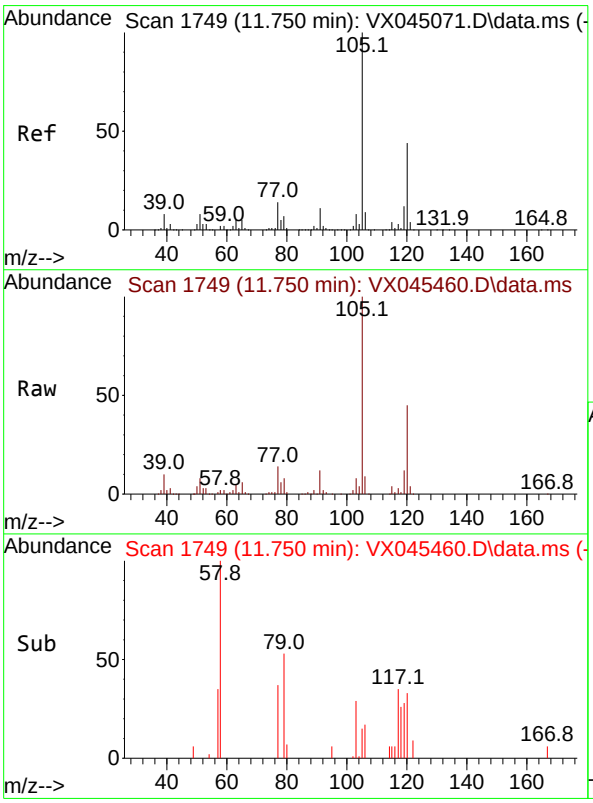
Ion	Ratio	Lower	Upper
119	100		
91	65.0	30.7	92.1
134	23.5	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

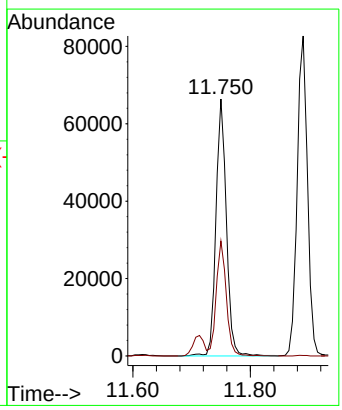
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

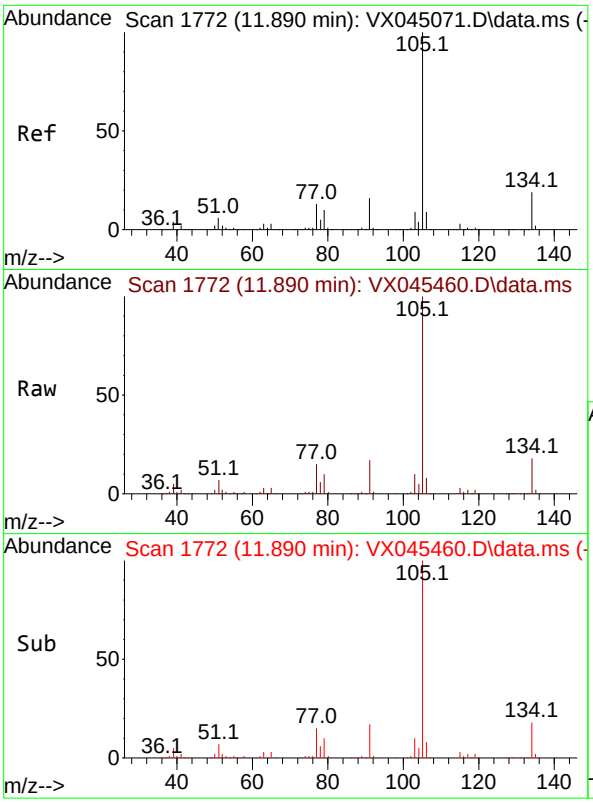


#84
1,2,4-Trimethylbenzene
Concen: 20.974 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:105 Resp: 81595

Ion	Ratio	Lower	Upper
105	100		
120	42.8	22.1	66.1

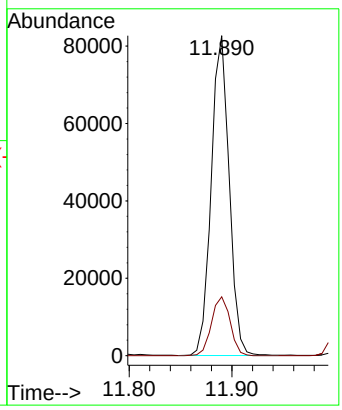




#85
sec-Butylbenzene
Concen: 21.094 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:105 Resp: 10037

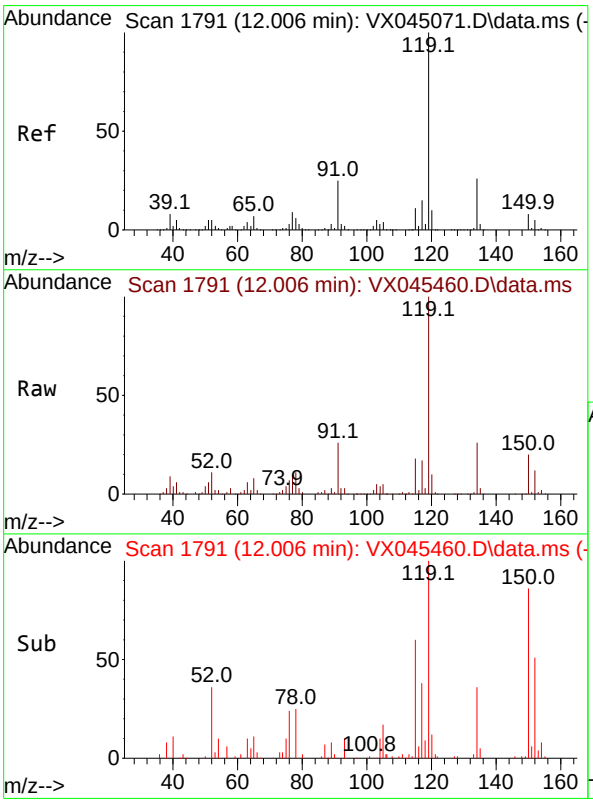
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

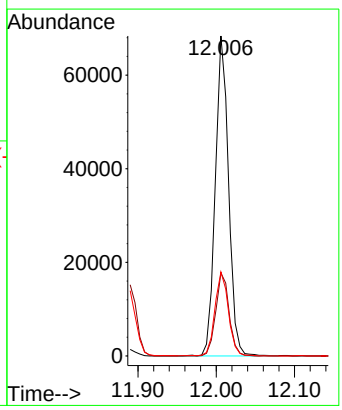
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

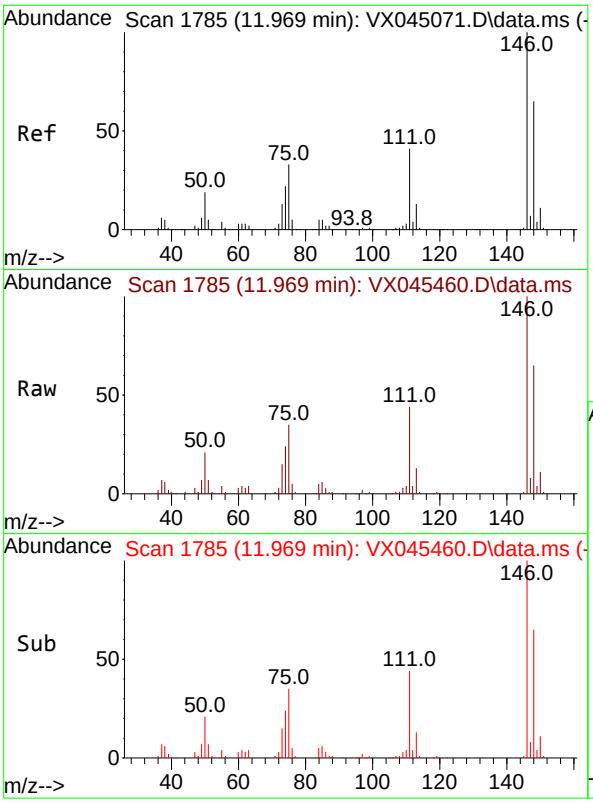


#86
p-Isopropyltoluene
Concen: 20.910 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:119 Resp: 80414

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	26.9	12.7	38.0

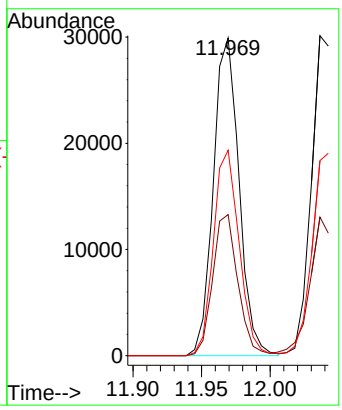




#87
1,3-Dichlorobenzene
Concen: 19.376 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:146 Resp: 3899

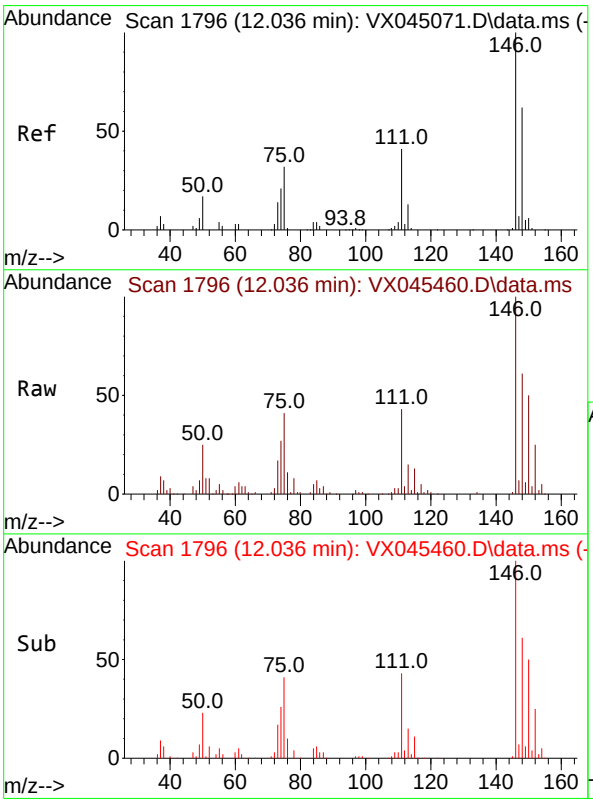
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.4
148	64.5	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

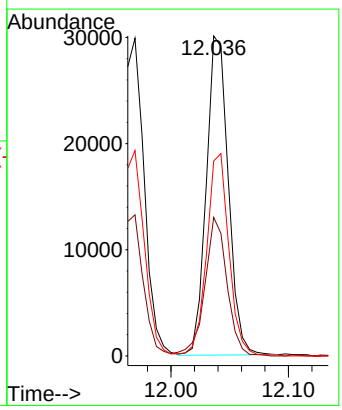
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

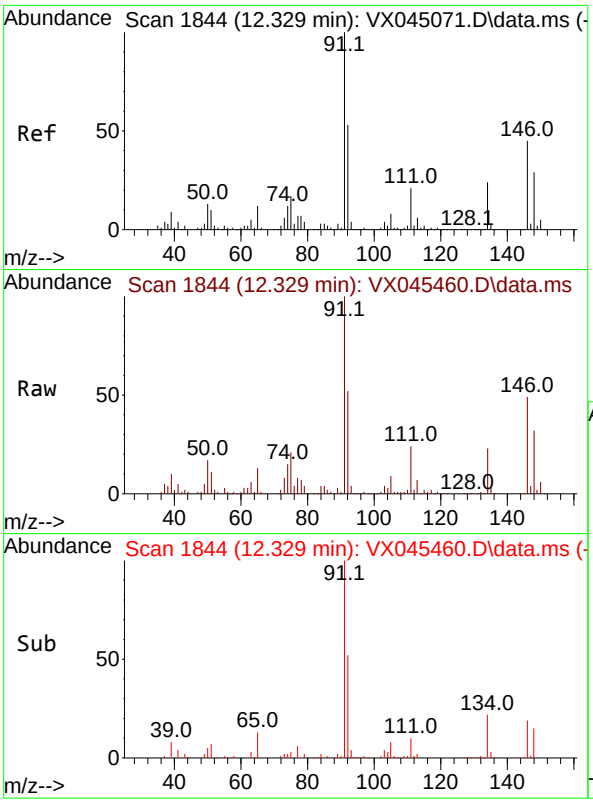


#88
1,4-Dichlorobenzene
Concen: 19.220 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:146 Resp: 39135

Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.2	60.5
148	64.3	31.9	95.9

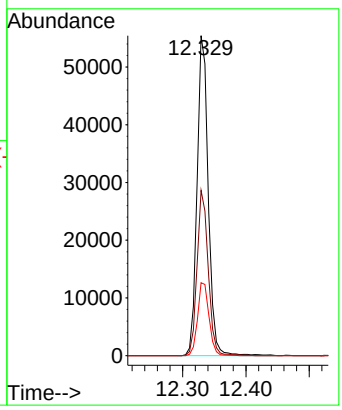




#89
n-Butylbenzene
Concen: 20.634 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 91 Resp: 6834

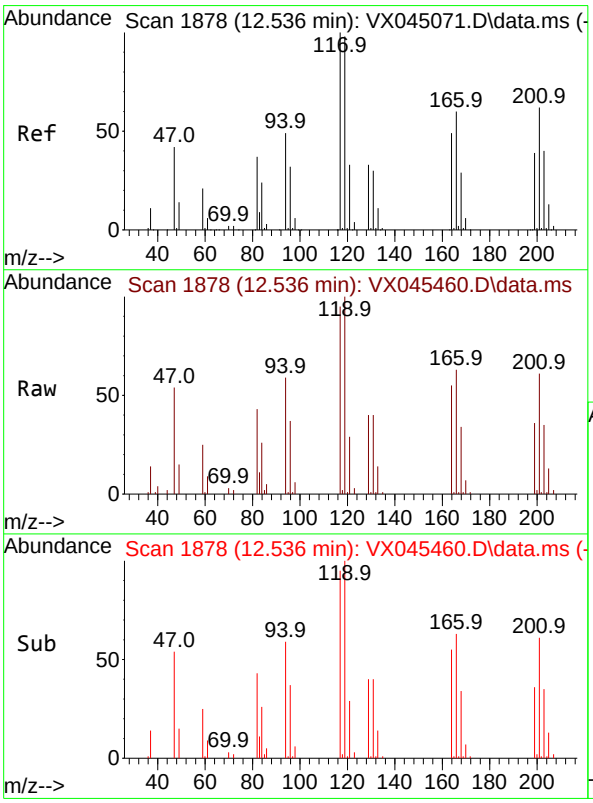
Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.7	80.0
134	23.3	12.2	36.6



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

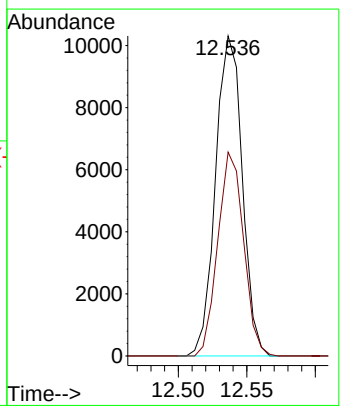
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

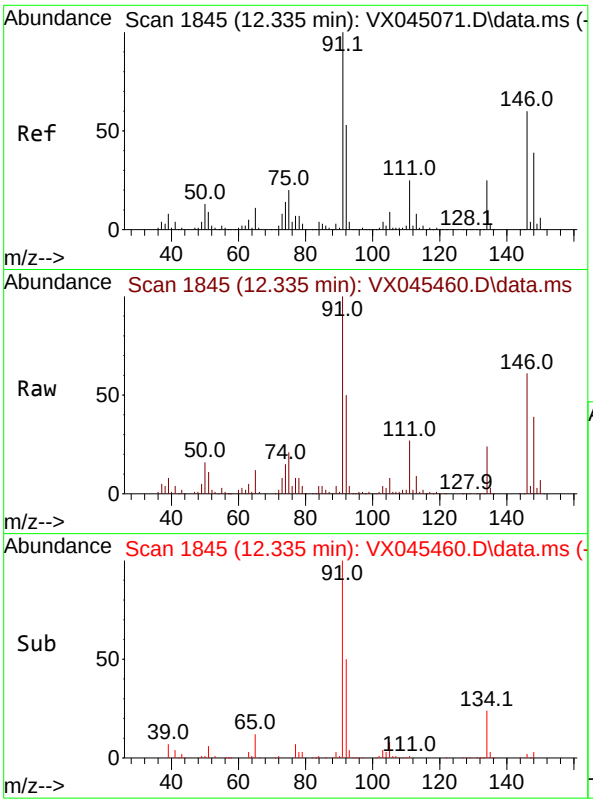


#90
Hexachloroethane
Concen: 20.092 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:117 Resp: 13976

Ion	Ratio	Lower	Upper
117	100		
201	61.6	31.9	95.9

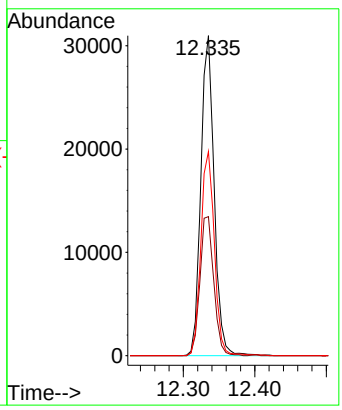




#91
1,2-Dichlorobenzene
Concen: 19.871 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:146 Resp: 4011

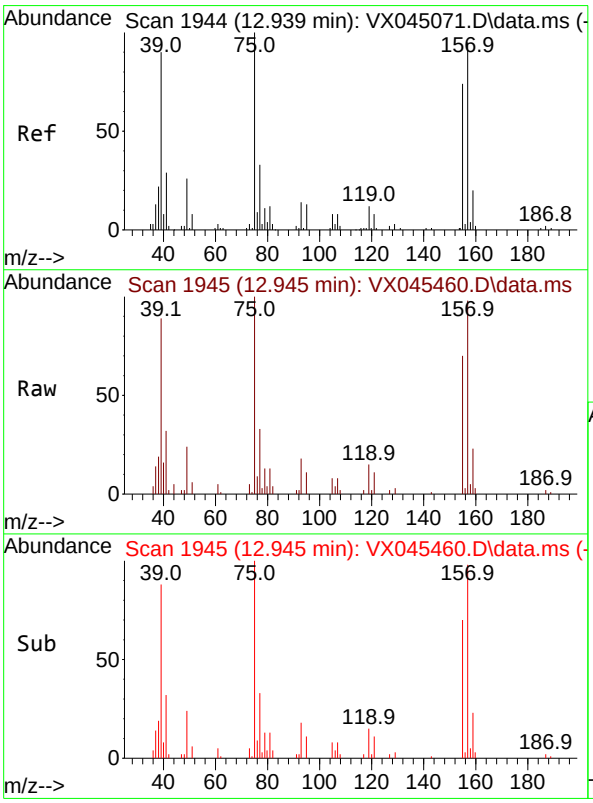
Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.6	65.0
148	64.8	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

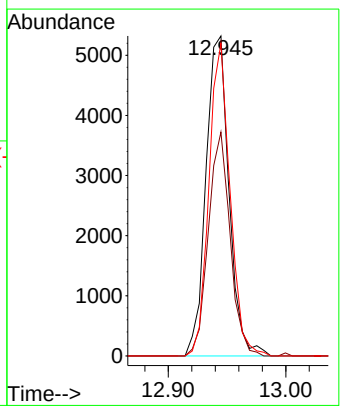
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

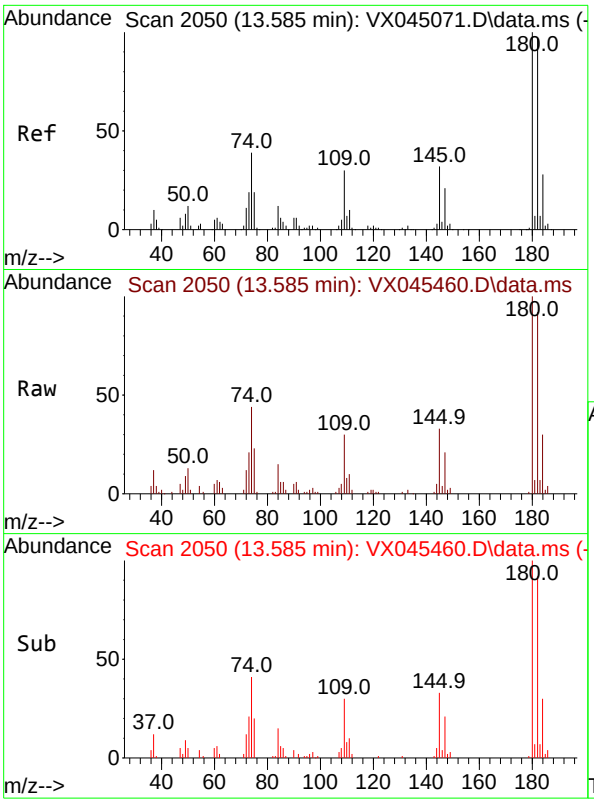


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.185 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 7242

Ion	Ratio	Lower	Upper
75	100		
155	66.2	39.6	118.7
157	89.4	51.1	153.4

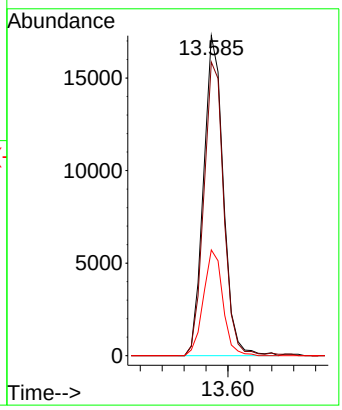




#93
1,2,4-Trichlorobenzene
Concen: 18.861 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:180 Resp: 2168

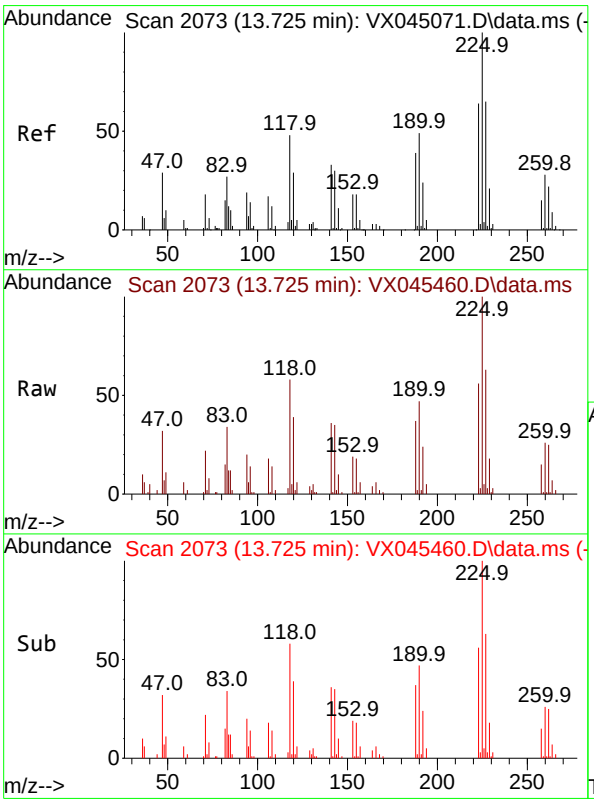
Ion	Ratio	Lower	Upper
180	100		
182	92.1	47.3	141.9
145	32.3	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations APPROVED

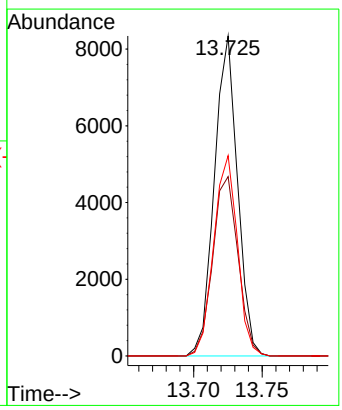
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

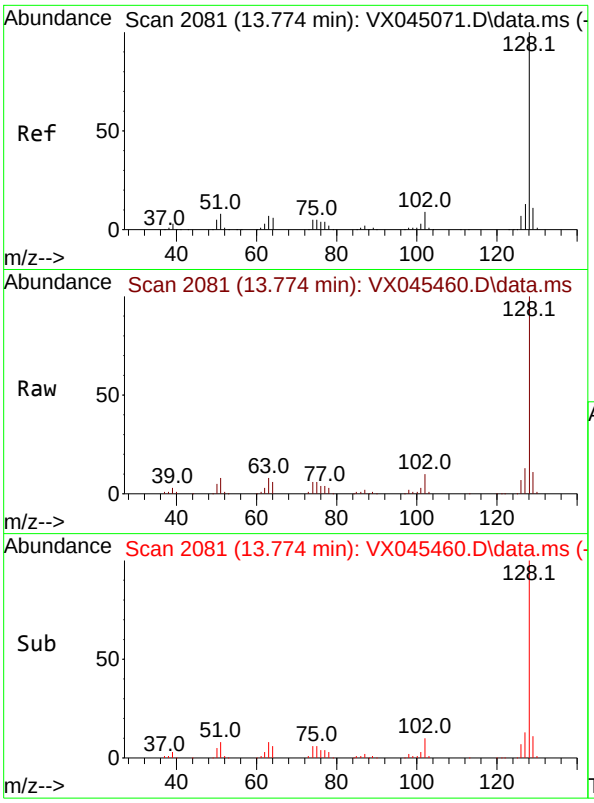


#94
Hexachlorobutadiene
Concen: 20.784 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:225 Resp: 9796

Ion	Ratio	Lower	Upper
225	100		
223	61.4	31.9	95.7
227	64.2	31.4	94.0

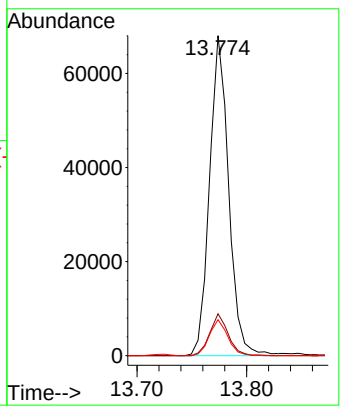




#95
Naphthalene
Concen: 18.685 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:128 Resp: 8253

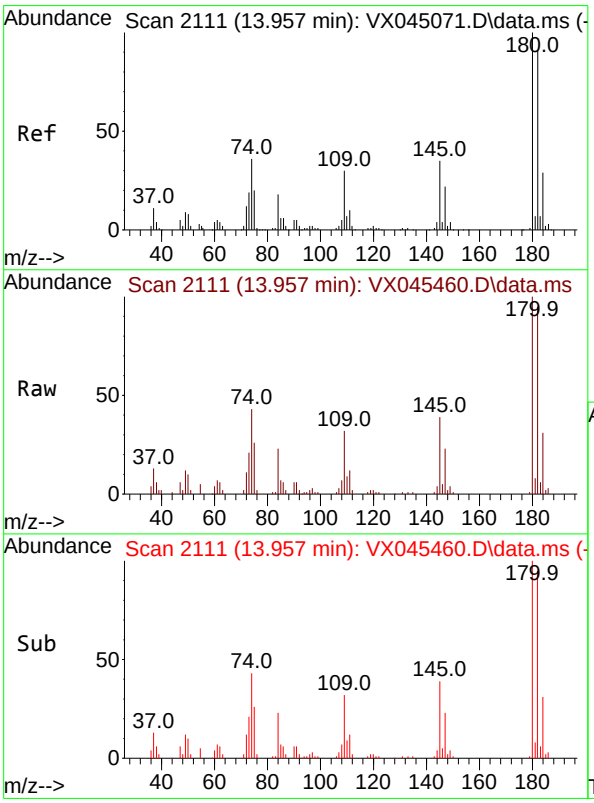
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Manual Integrations
APPROVED

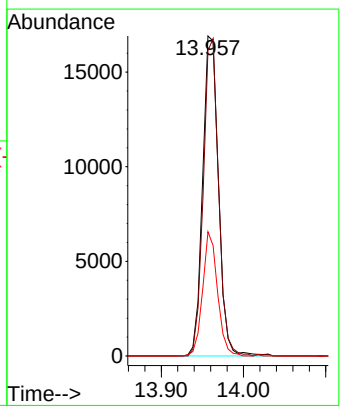
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.665 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:180 Resp: 22637

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.6
145	36.3	17.0	50.9



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320MS	SDG No.:	Q1629
Lab Sample ID:	Q1629-04MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045467.D	1		03/26/25 14:06	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	46.4		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	40.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	40.6		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	46.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	43.2		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	46.8		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	54.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	47.9		0.23	0.75	1.00	ug/L
67-64-1	Acetone	280		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	34.3		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	54.1		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	71.5		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	49.1		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	47.9		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	52.7		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	46.2		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	290		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.1		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.5		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	53.5		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	55.2		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.3		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	48.9		0.16	0.50	1.00	ug/L
71-43-2	Benzene	49.7		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	58.4		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	53.5		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	51.4		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	56.3		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	290		0.68	2.50	5.00	ug/L
108-88-3	Toluene	51.6		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320MS	SDG No.:	Q1629
Lab Sample ID:	Q1629-04MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045467.D	1		03/26/25 14:06	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	56.5		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.2		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	53.5		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	300		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	56.2		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	53.5		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	49.3		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	51.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	53.2		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	100		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	51.7		0.12	0.50	1.00	ug/L
100-42-5	Styrene	54.0		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	54.9		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	51.8		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.0		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	50.4		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.0		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	52.3		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	60.7		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	51.8		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	51.1		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.7		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	46.5		89 - 112		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	79800	5.544				
540-36-3	1,4-Difluorobenzene	146000	6.757				
3114-55-4	Chlorobenzene-d5	128000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	58800	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320MS	SDG No.:	Q1629
Lab Sample ID:	Q1629-04MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045467.D	1		03/26/25 14:06	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	79755	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	146350	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	128351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58769	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68108	53.687	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.380%			
35) Dibromofluoromethane	5.379	113	48275	49.330	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.660%			
50) Toluene-d8	8.647	98	164889	46.477	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.960%			
62) 4-Bromofluorobenzene	11.079	95	60102	51.123	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	46532	46.350	ug/l	98
3) Chloromethane	1.301	50	50060	40.746	ug/l	96
4) Vinyl Chloride	1.374	62	49466	40.586	ug/l	98
5) Bromomethane	1.593	94	22020	45.959	ug/l	96
6) Chloroethane	1.660	64	24283	43.195	ug/l	97
7) Trichlorofluoromethane	1.867	101	75513	46.802	ug/l	99
8) Diethyl Ether	2.136	74	28463	45.102	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.313	101	50794	54.797	ug/l	98
10) Methyl Iodide	2.441	142	57932	50.010	ug/l	93
11) Tert butyl alcohol	2.995	59	60816	253.087	ug/l	98
12) 1,1-Dichloroethene	2.306	96	46906	47.862	ug/l	91
13) Acrolein	2.239	56	77953	280.632	ug/l	99
14) Allyl chloride	2.654	41	91634	52.528	ug/l	94
15) Acrylonitrile	3.068	53	175382	272.322	ug/l	99
16) Acetone	2.386	43	165202	280.669	ug/l	95
17) Carbon Disulfide	2.495	76	89593	34.324	ug/l	99
18) Methyl Acetate	2.709	43	101259	71.511	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	177897	54.106	ug/l	96
20) Methylene Chloride	2.782	84	57196	49.055	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	46380	47.904	ug/l	95
22) Diisopropyl ether	3.763	45	190132	53.591	ug/l	97
23) Vinyl Acetate	3.721	43	761827	257.312	ug/l	100
24) 1,1-Dichloroethane	3.605	63	104747	52.681	ug/l	100
25) 2-Butanone	4.562	43	256278	289.256	ug/l	98
26) 2,2-Dichloropropane	4.465	77	68798	73.768	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	60400	50.536	ug/l	91
28) Bromochloromethane	4.891	49	50738	53.536	ug/l	98
29) Tetrahydrofuran	5.007	42	157811	265.234	ug/l	100
30) Chloroform	5.086	83	109031	55.188	ug/l	97
31) Cyclohexane	5.464	56	79780	46.223	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	88281	55.326	ug/l	98
36) 1,1-Dichloropropene	5.684	75	65083	48.495	ug/l	99
37) Ethyl Acetate	4.715	43	87939	50.852	ug/l	98
38) Carbon Tetrachloride	5.672	117	72318	53.077	ug/l	99
39) Methylcyclohexane	7.373	83	78668	48.920	ug/l	95
40) Benzene	6.031	78	210492	49.669	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	53883	57.624	ug/l		99
42) 1,2-Dichloroethane	6.080	62	89136	58.409	ug/l		96
43) Isopropyl Acetate	6.342	43	139297	54.473	ug/l		99
44) Trichloroethene	7.123	130	53208	53.470	ug/l		97
45) 1,2-Dichloropropane	7.427	63	55967	51.364	ug/l		96
46) Dibromomethane	7.580	93	42626	55.348	ug/l		95
47) Bromodichloromethane	7.818	83	85047	56.299	ug/l		98
48) Methyl methacrylate	7.690	41	75585	58.917	ug/l		93
49) 1,4-Dioxane	7.665	88	31254	1154.916	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	495132	288.370	ug/l		99
52) Toluene	8.714	92	128286	51.594	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	71333	56.484	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	81244	55.168	ug/l		91
55) 1,1,2-Trichloroethane	9.153	97	54781	53.517	ug/l		99
56) Ethyl methacrylate	9.116	69	88064	56.598	ug/l		92
57) 1,3-Dichloropropane	9.305	76	94297	53.232	ug/l		99
59) 2-Hexanone	9.433	43	369120	296.710	ug/l		98
60) Dibromochloromethane	9.519	129	60161	56.210	ug/l		99
61) 1,2-Dibromoethane	9.610	107	54681	53.511	ug/l		98
64) Tetrachloroethene	9.269	164	40543	49.320	ug/l		97
65) Chlorobenzene	10.079	112	140765	51.830	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	48742	53.892	ug/l		97
67) Ethyl Benzene	10.189	91	251811	53.212	ug/l		98
68) m/p-Xylenes	10.299	106	179991	103.899	ug/l		94
69) o-Xylene	10.640	106	90251	51.655	ug/l		96
70) Styrene	10.652	104	152690	54.010	ug/l		97
71) Bromoform	10.799	173	37444	54.901	ug/l	#	99
73) Isopropylbenzene	10.957	105	237533	51.783	ug/l		100
74) N-amyl acetate	10.841	43	114520	53.205	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	87521	51.994	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	72015m	52.648	ug/l		
77) Bromobenzene	11.195	156	53862	49.767	ug/l		95
78) n-propylbenzene	11.305	91	274062	52.890	ug/l		98
79) 2-Chlorotoluene	11.360	91	169636	51.404	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	196564	52.996	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	20862	52.194	ug/l	#	82
82) 4-Chlorotoluene	11.451	91	190526	52.974	ug/l		98
83) tert-Butylbenzene	11.713	119	198359	52.050	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	198088	53.078	ug/l		96
85) sec-Butylbenzene	11.890	105	244804	53.627	ug/l		99
86) p-Isopropyltoluene	12.006	119	197358	53.497	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	97338	50.415	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	97630	49.981	ug/l		98
89) n-Butylbenzene	12.329	91	172306	54.229	ug/l		99
90) Hexachloroethane	12.536	117	35355	52.984	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	101203	52.253	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19915	60.728	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	57177	51.846	ug/l		99
94) Hexachlorobutadiene	13.725	225	23184	51.276	ug/l		99
95) Naphthalene	13.774	128	219209	51.735	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	59466	51.113	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

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

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

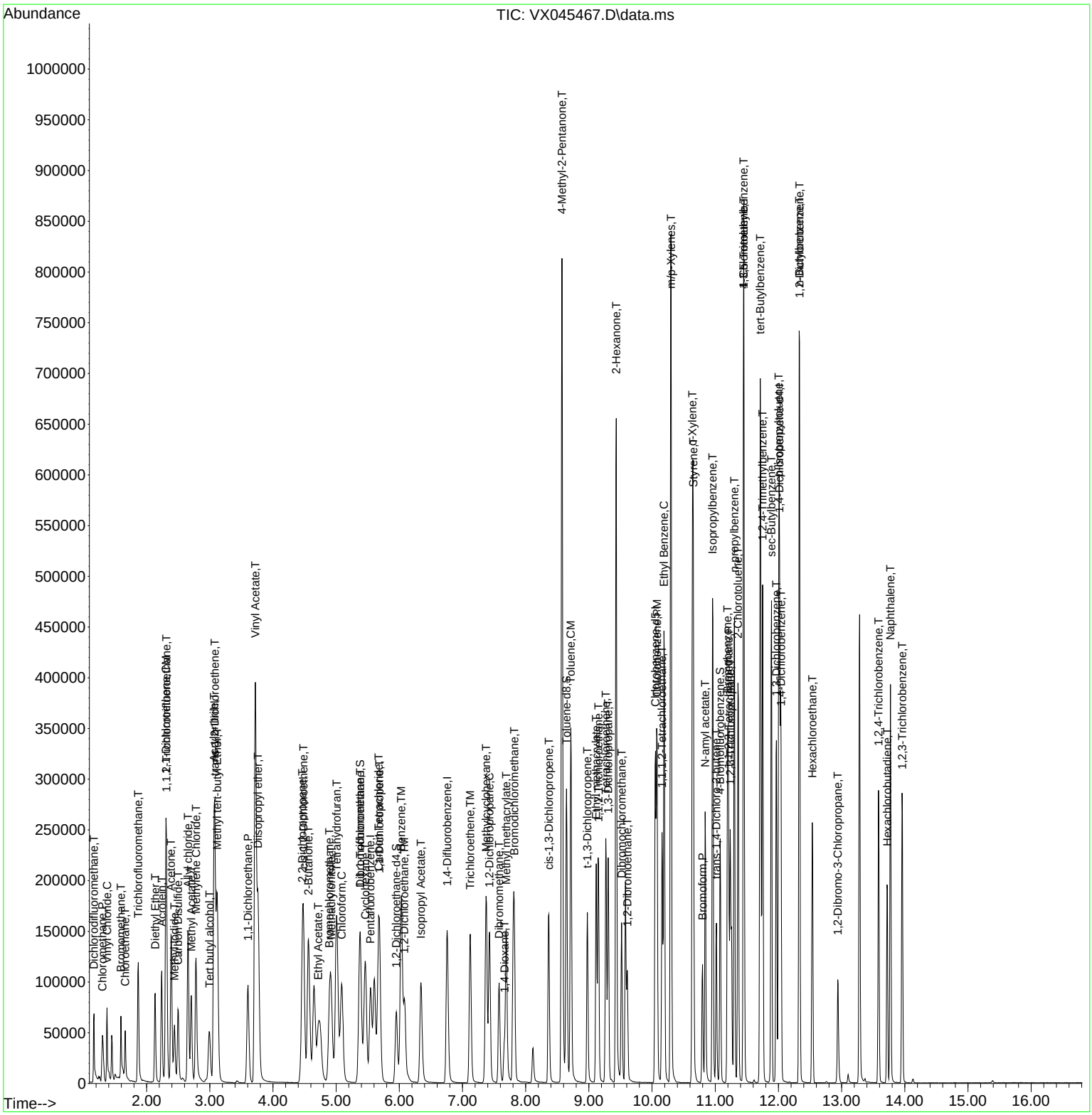
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

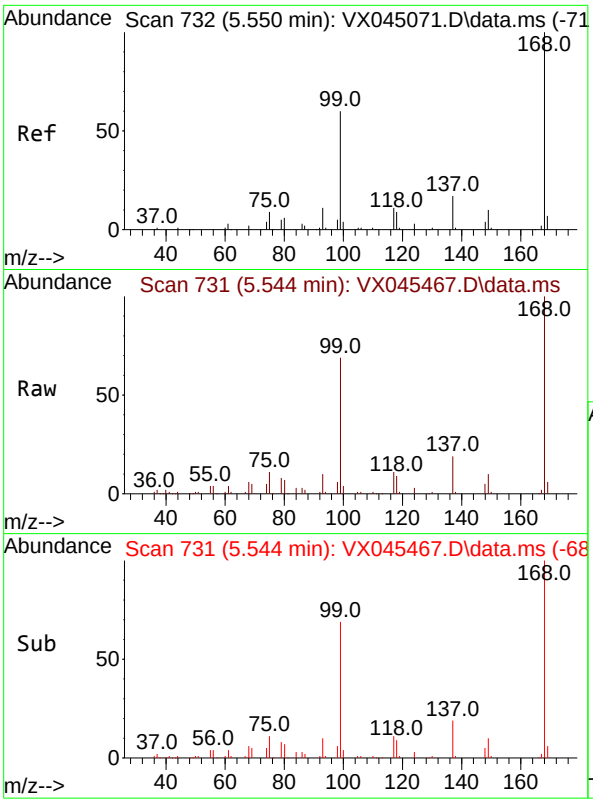
Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

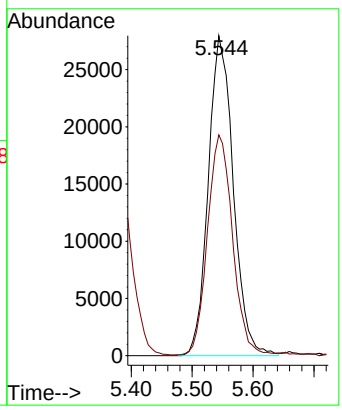




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:168 Resp: 7975

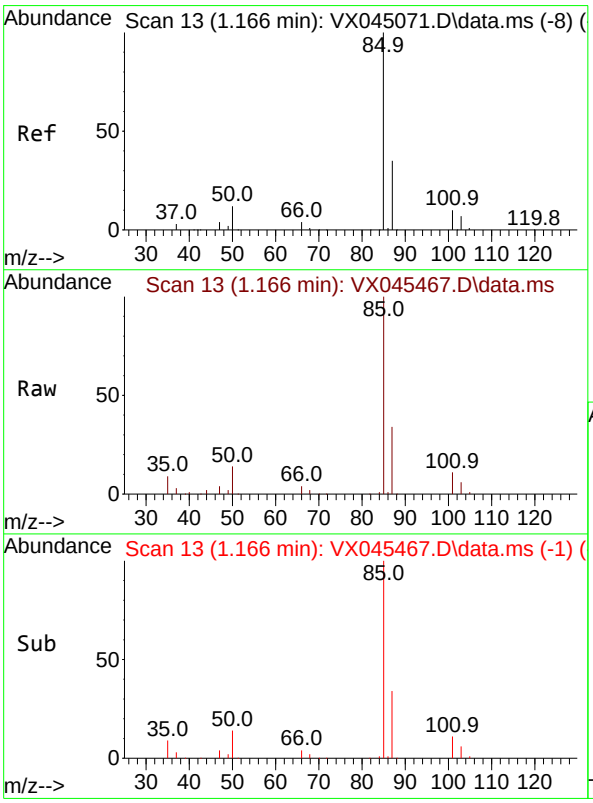
Ion	Ratio	Lower	Upper
168	100		
99	68.7	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

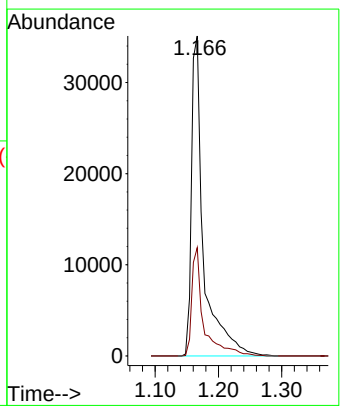
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

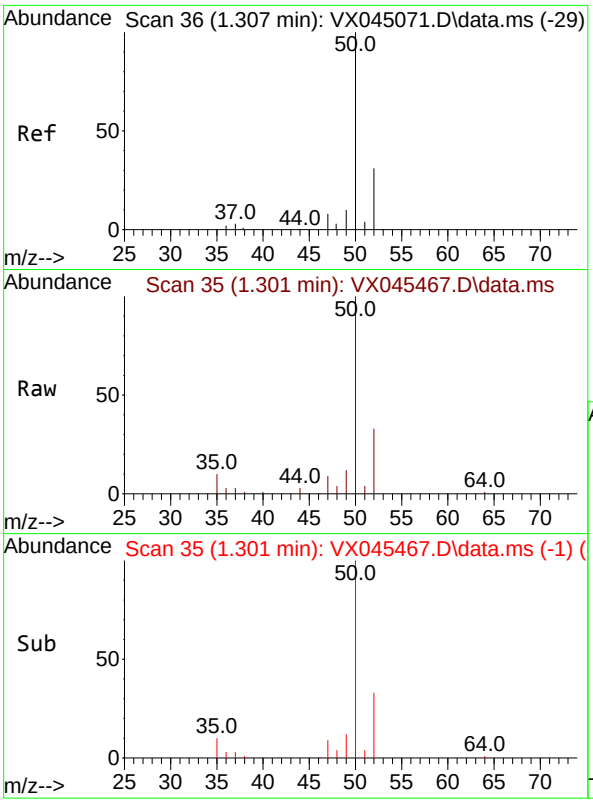


#2
Dichlorodifluoromethane
Concen: 46.350 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 85 Resp: 46532

Ion	Ratio	Lower	Upper
85	100		
87	33.8	17.4	52.3

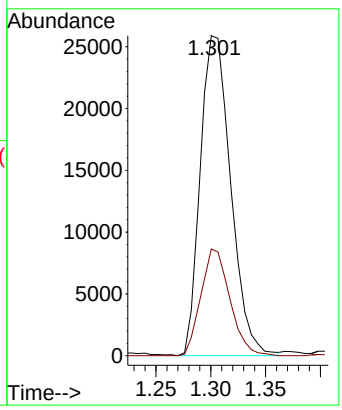




#3
Chloromethane
Concen: 40.746 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 50 Resp: 5006

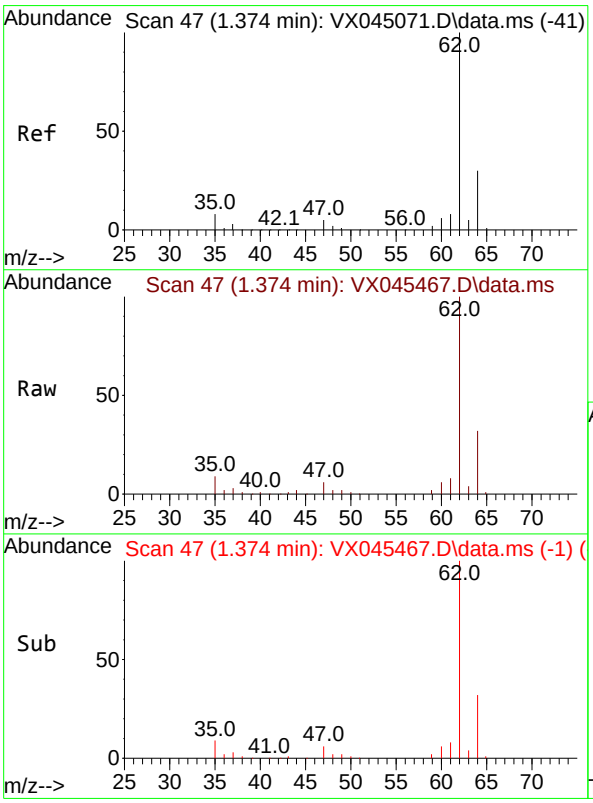
Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

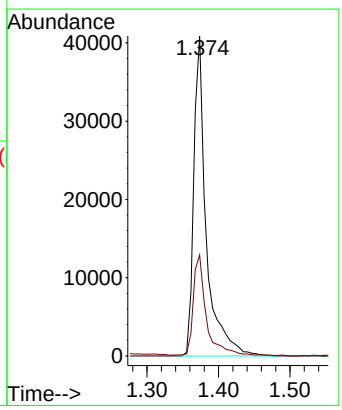
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

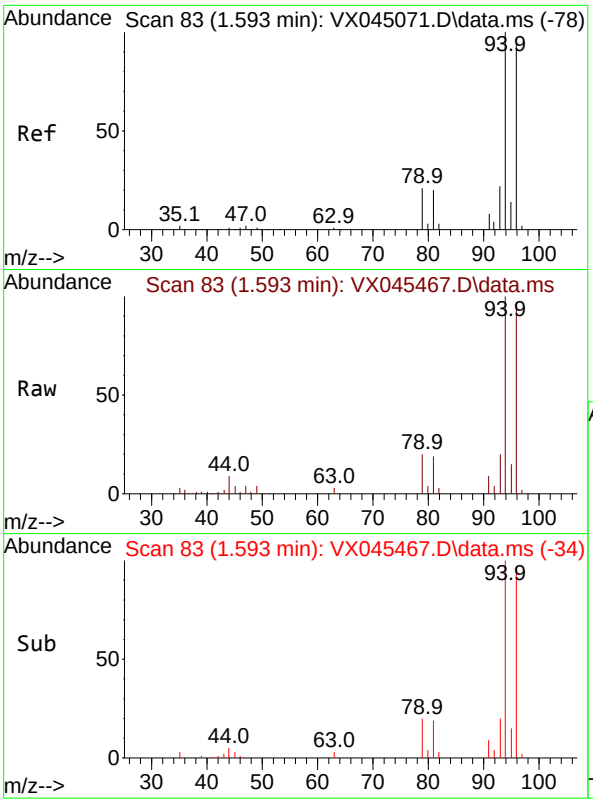


#4
Vinyl Chloride
Concen: 40.586 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 62 Resp: 49466

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.3	36.5

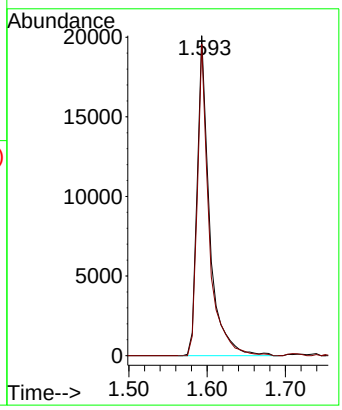




#5
Bromomethane
Concen: 45.959 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 94 Resp: 2202

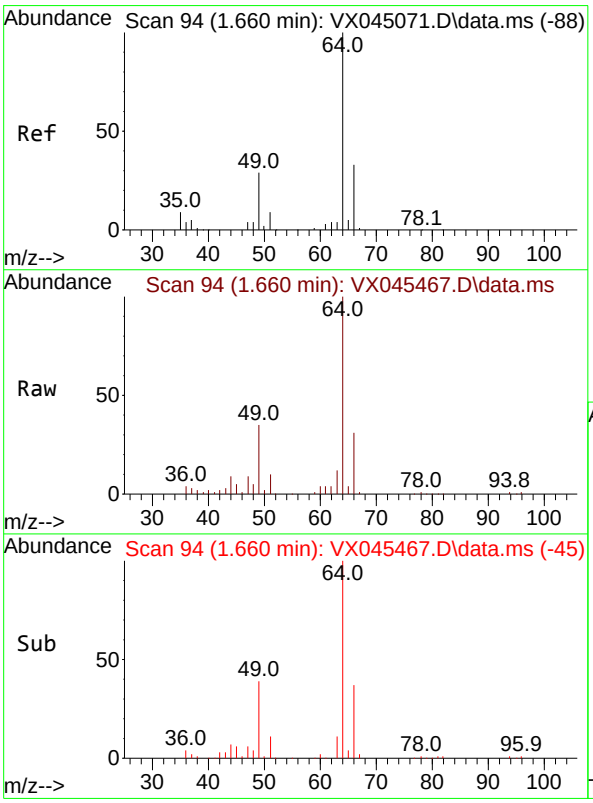
Ion	Ratio	Lower	Upper
94	100		
96	97.4	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

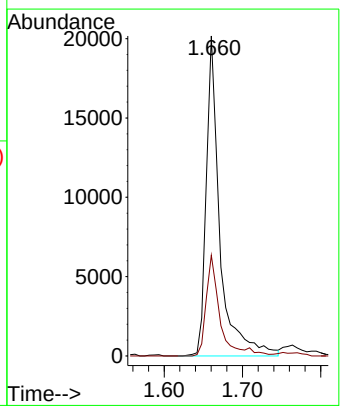
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

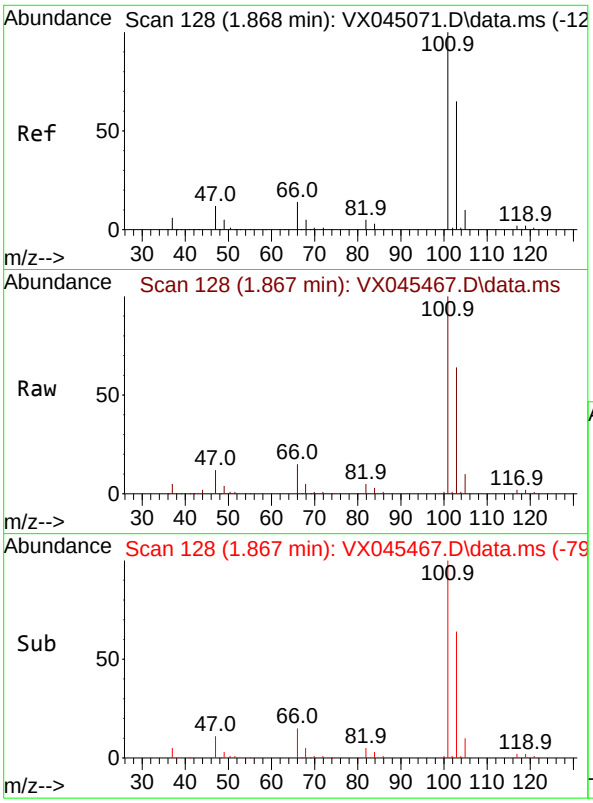


#6
Chloroethane
Concen: 43.195 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 64 Resp: 24283

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.7	40.1

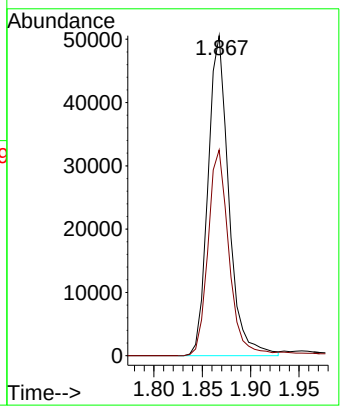




#7
Trichlorofluoromethane
Concen: 46.802 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:101 Resp: 7551

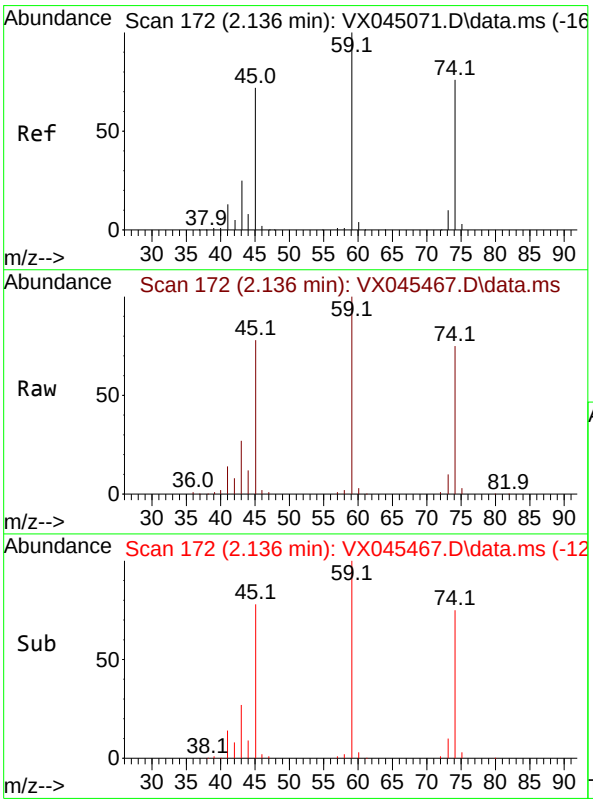
Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

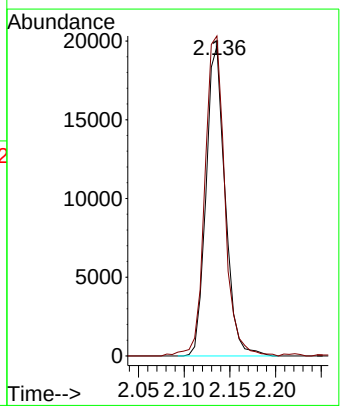
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

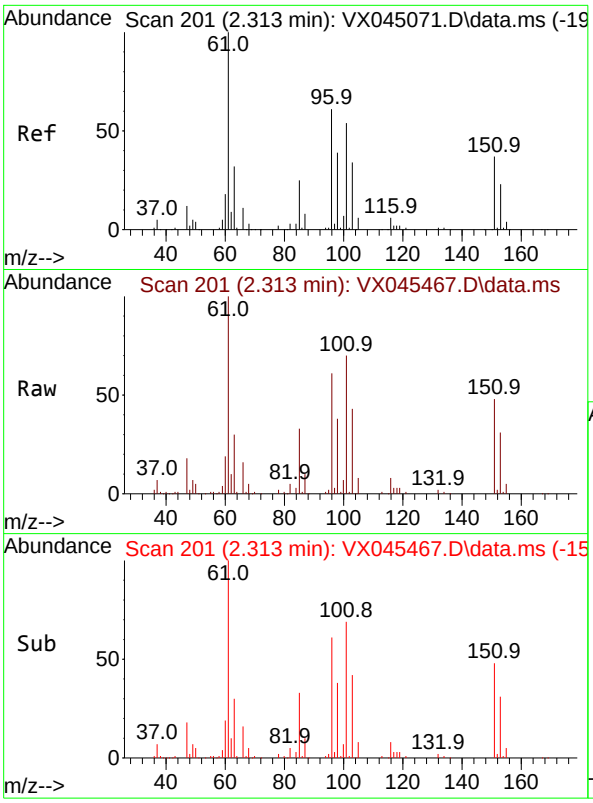


#8
Diethyl Ether
Concen: 45.102 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 74 Resp: 28463

Ion	Ratio	Lower	Upper
74	100		
45	107.8	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.797 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

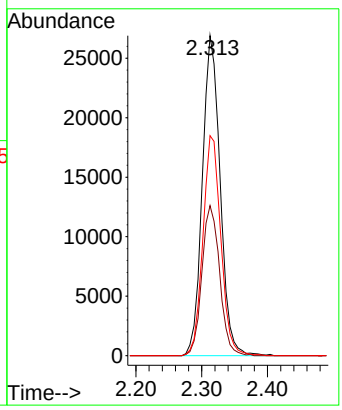
Tgt Ion:101 Resp: 5079

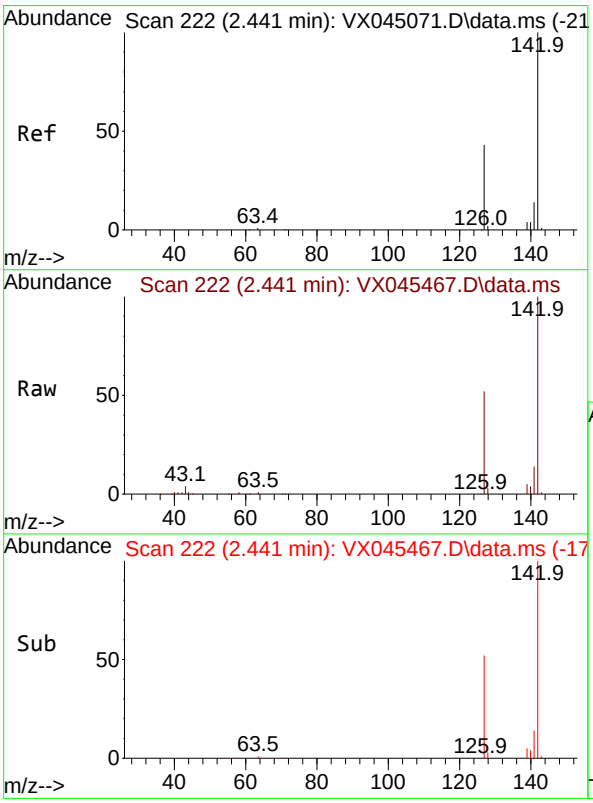
Ion	Ratio	Lower	Upper
101	100		
85	46.6	36.2	54.4
151	69.0	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

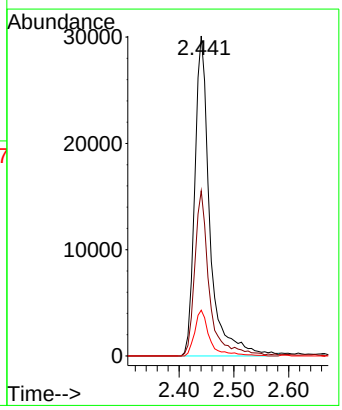


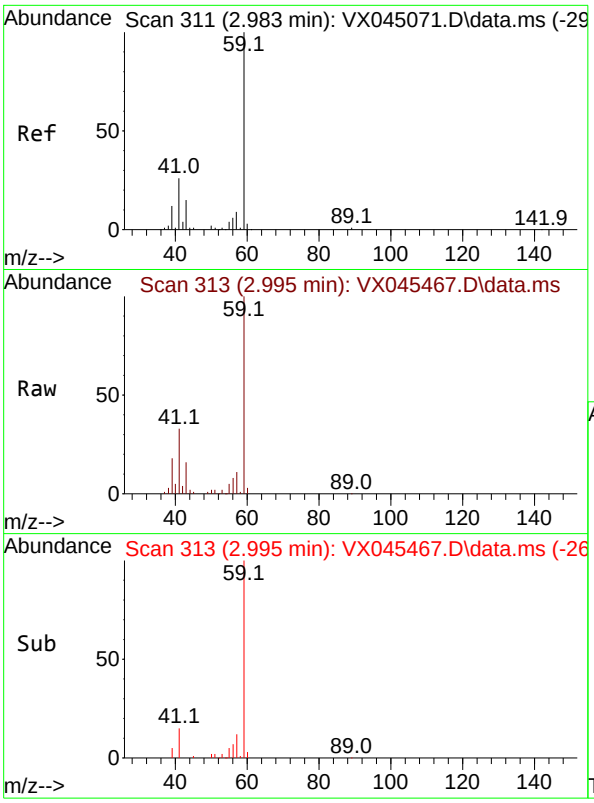


#10
Methyl Iodide
Concen: 50.010 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:142 Resp: 57932

Ion	Ratio	Lower	Upper
142	100		
127	49.9	35.4	53.2
141	14.2	11.6	17.4

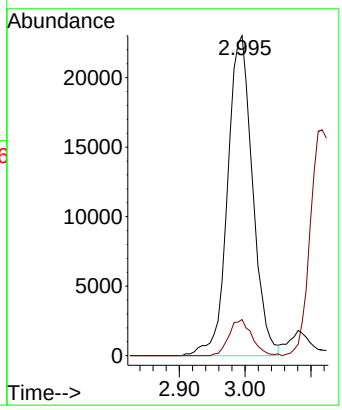




#11
Tert butyl alcohol
Concen: 253.087 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 59 Resp: 6081

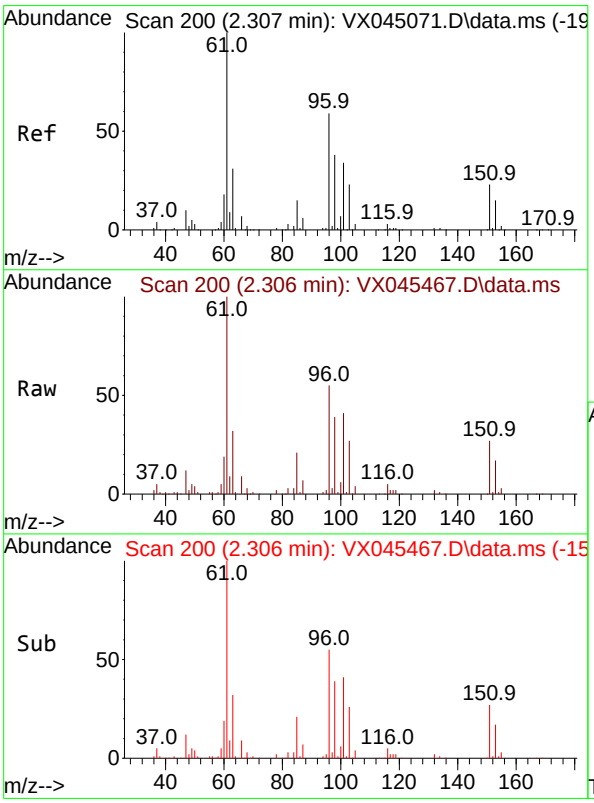
Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

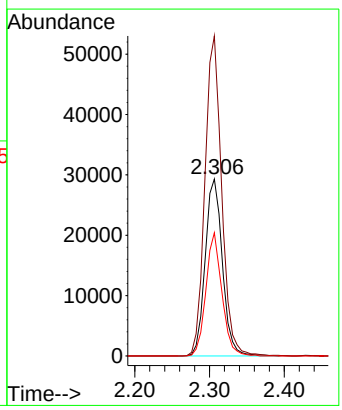
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

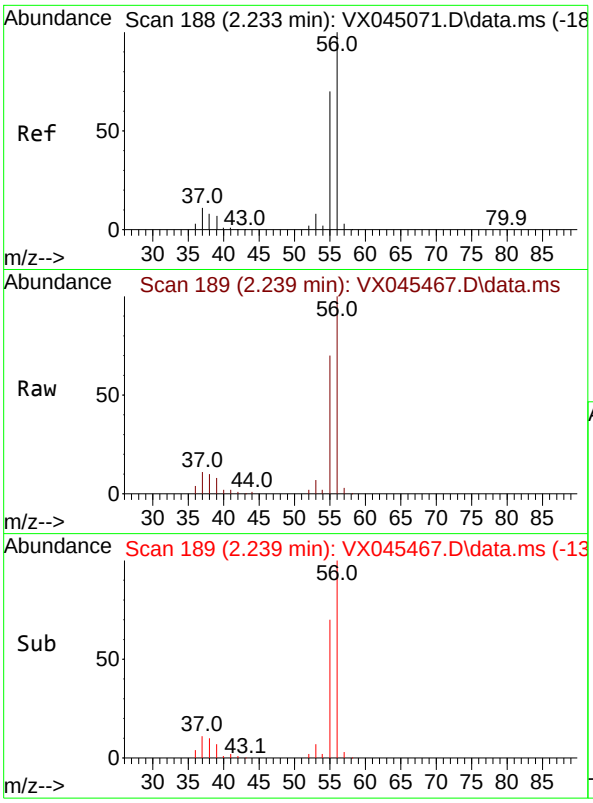


#12
1,1-Dichloroethene
Concen: 47.862 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 96 Resp: 46906

Ion	Ratio	Lower	Upper
96	100		
61	180.8	134.6	202.0
98	69.6	51.0	76.6

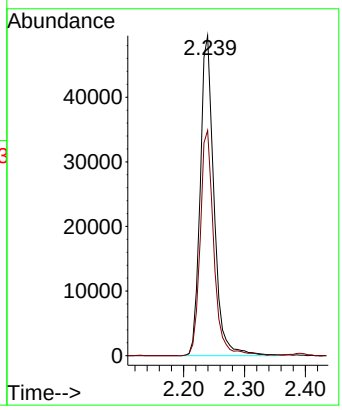




#13
Acrolein
Concen: 280.632 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 56 Resp: 7795

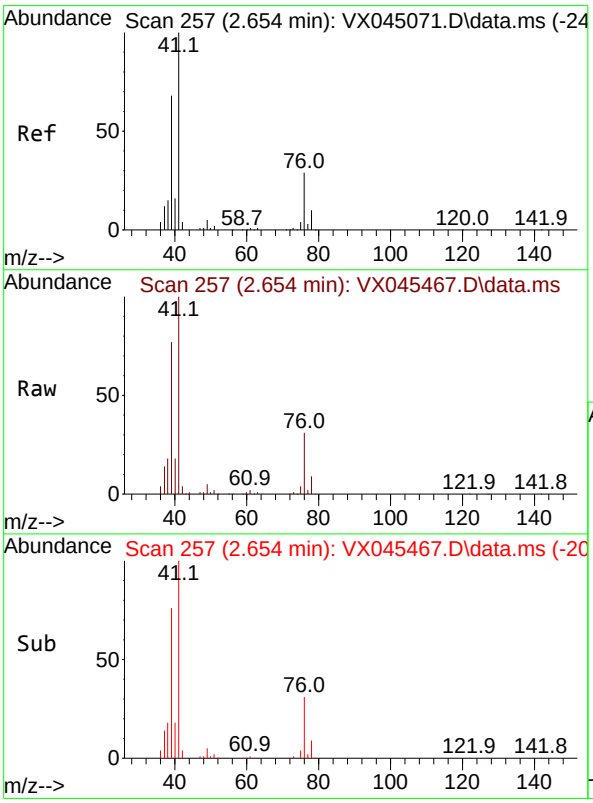
Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

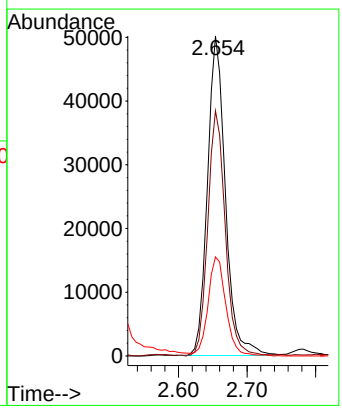
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

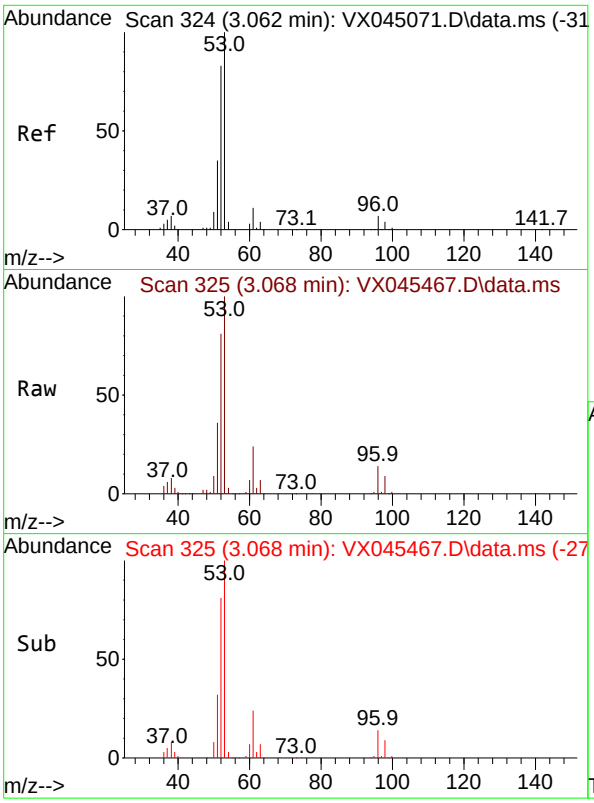


#14
Allyl chloride
Concen: 52.528 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 41 Resp: 91634

Ion	Ratio	Lower	Upper
41	100		
39	73.8	53.8	80.8
76	30.8	25.2	37.8

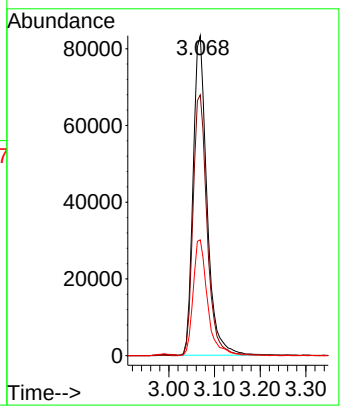




#15
Acrylonitrile
Concen: 272.322 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 53 Resp: 17538

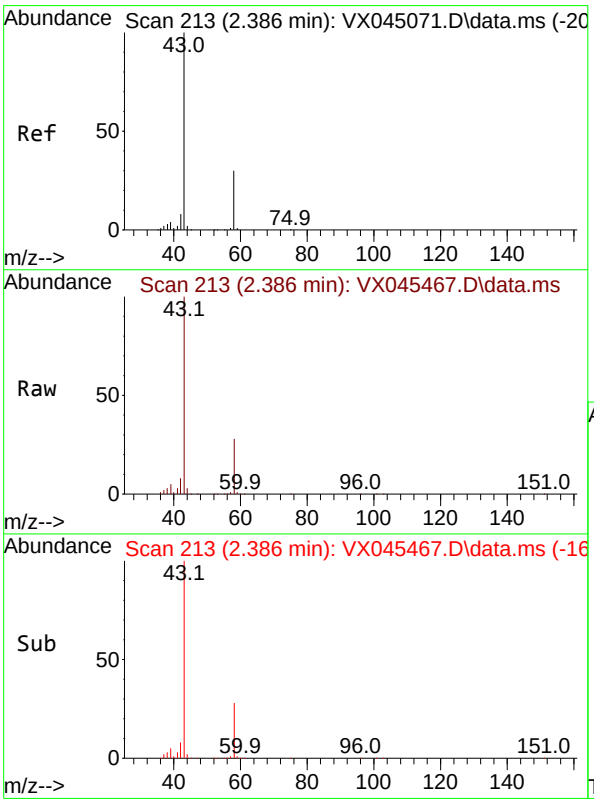
Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.2	99.2
51	37.8	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

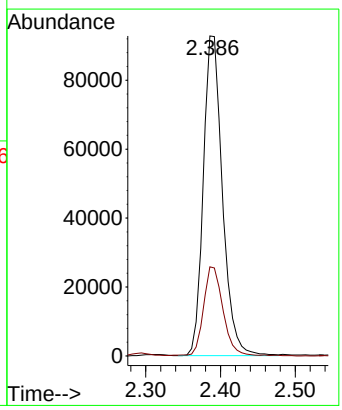
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

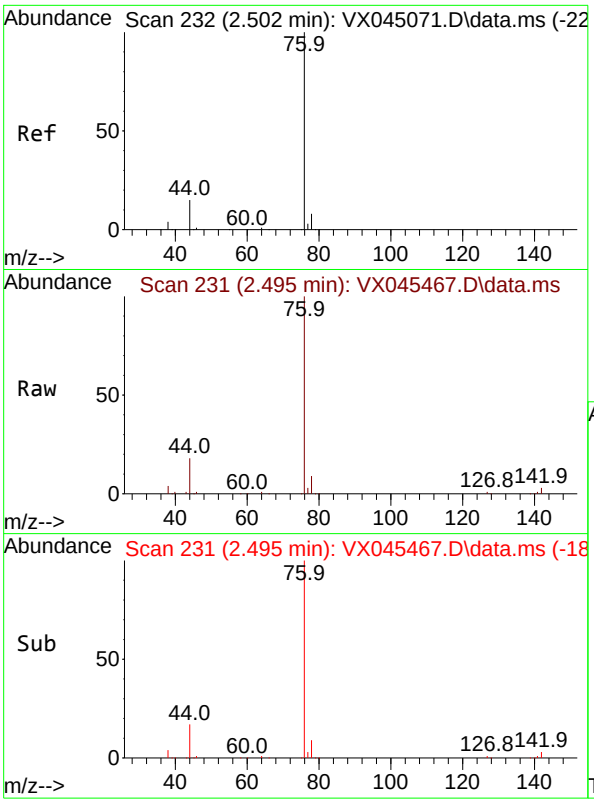


#16
Acetone
Concen: 280.669 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 165202

Ion	Ratio	Lower	Upper
43	100		
58	27.7	24.2	36.4





#17
Carbon Disulfide
Concen: 34.324 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

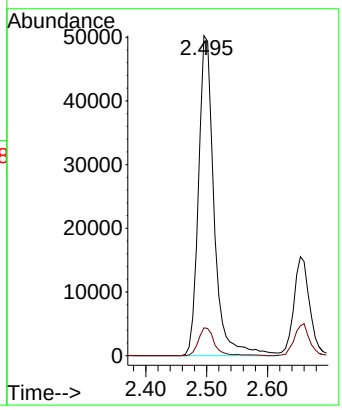
Tgt Ion: 76 Resp: 8959

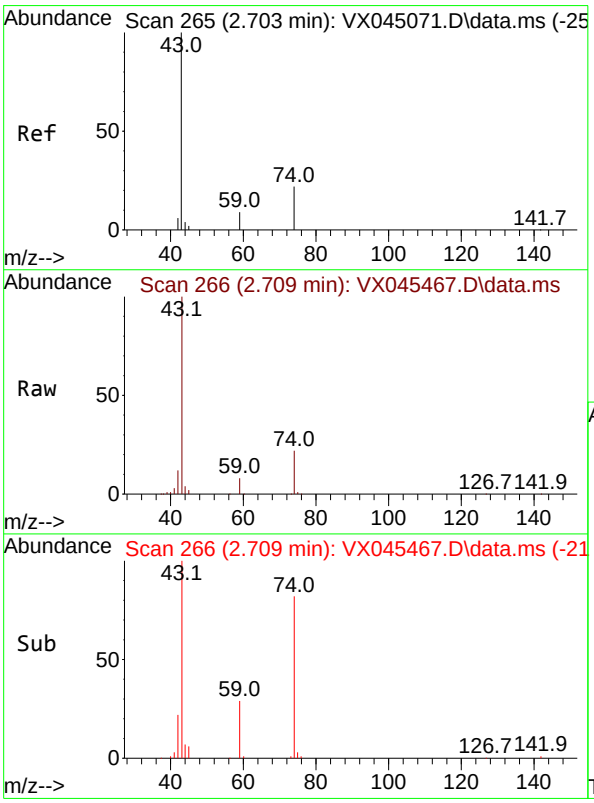
Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

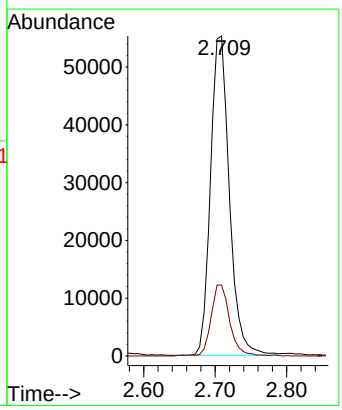


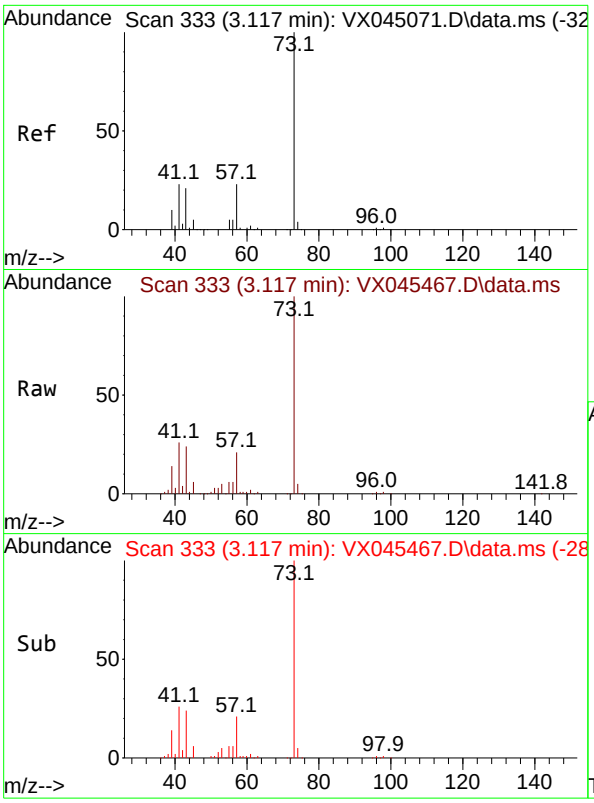


#18
Methyl Acetate
Concen: 71.511 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 101259

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2

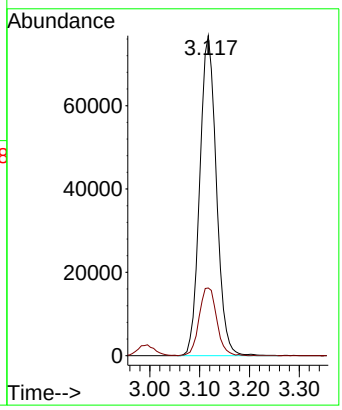




#19
Methyl tert-butyl Ether
Concen: 54.106 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 73 Resp: 17789

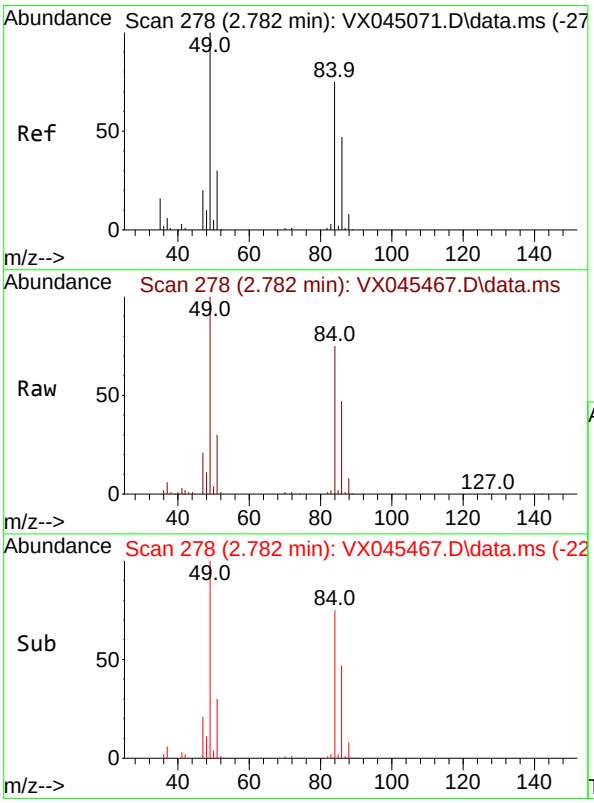
Ion	Ratio	Lower	Upper
73	100		
57	21.1	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

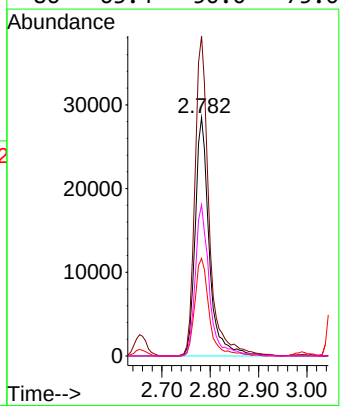
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

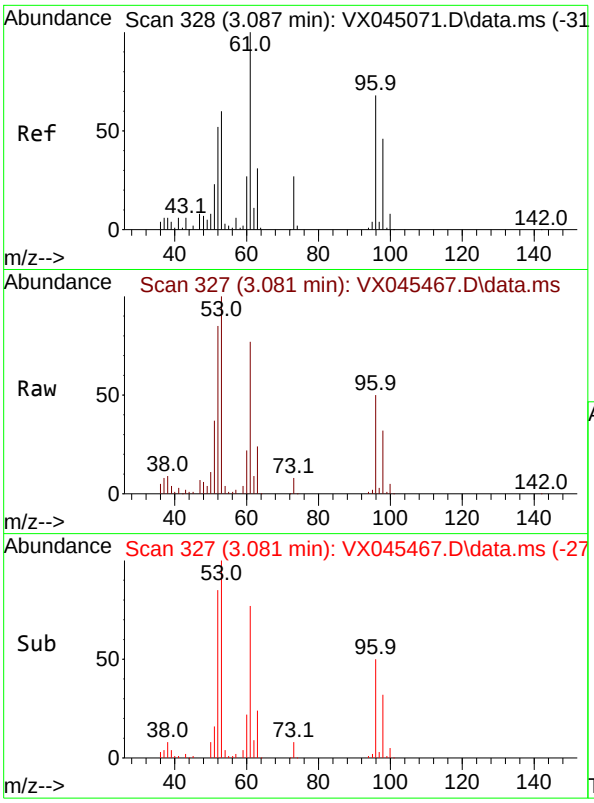


#20
Methylene Chloride
Concen: 49.055 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 84 Resp: 57196

Ion	Ratio	Lower	Upper
84	100		
49	134.2	106.5	159.7
51	40.9	32.1	48.1
86	63.4	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 47.904 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

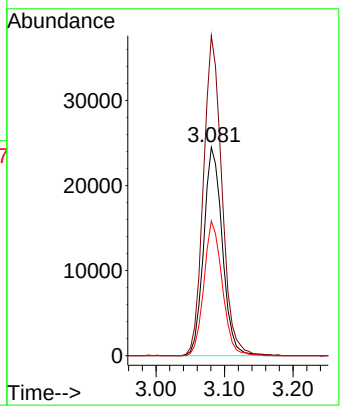
Tgt Ion: 96 Resp: 4638

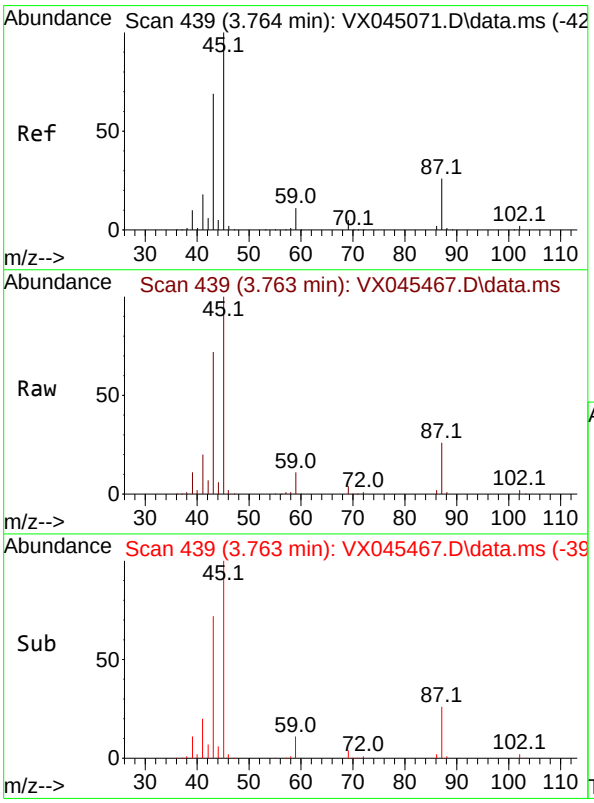
Ion	Ratio	Lower	Upper
96	100		
61	153.5	117.0	175.4
98	64.6	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

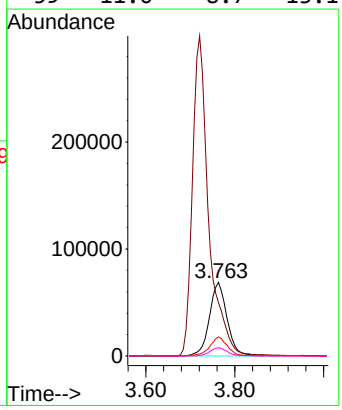


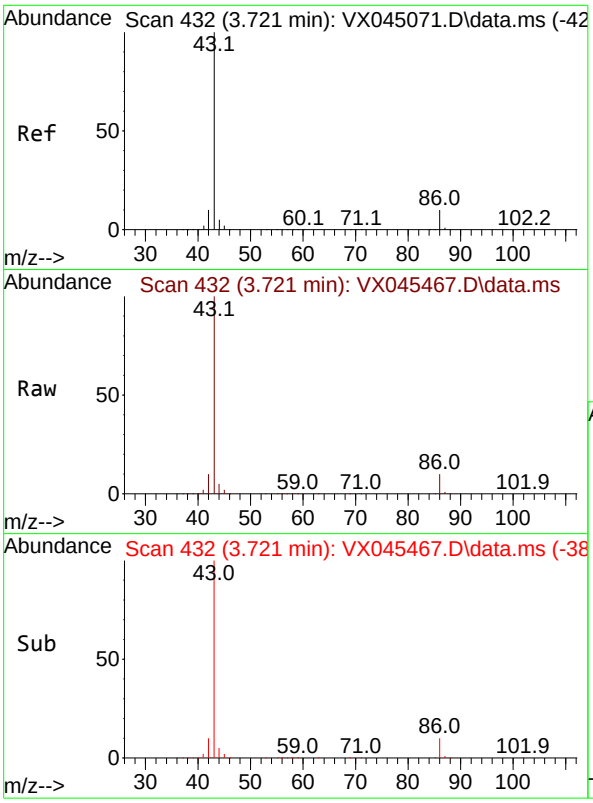


#22
Diisopropyl ether
Concen: 53.591 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 45 Resp: 190132

Ion	Ratio	Lower	Upper
45	100		
43	72.0	54.9	82.3
87	25.8	21.0	31.4
59	11.0	8.7	13.1

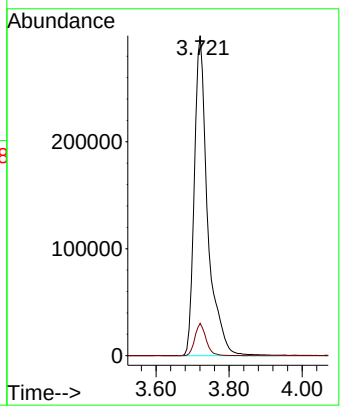




#23
Vinyl Acetate
Concen: 257.312 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 76182

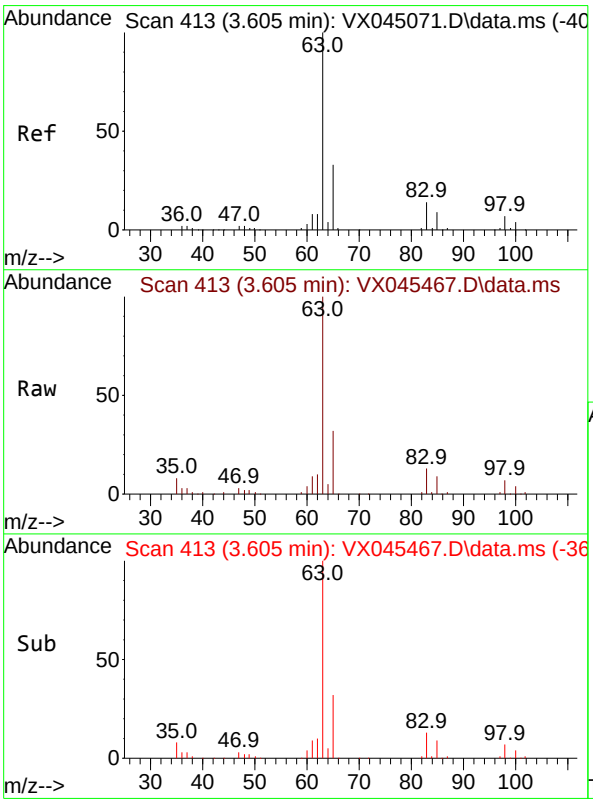
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

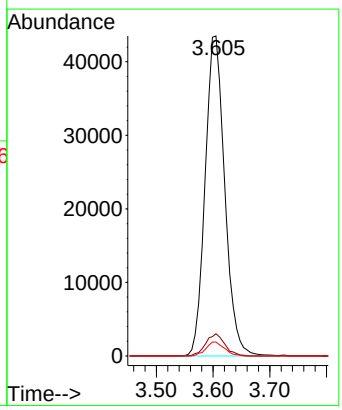
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

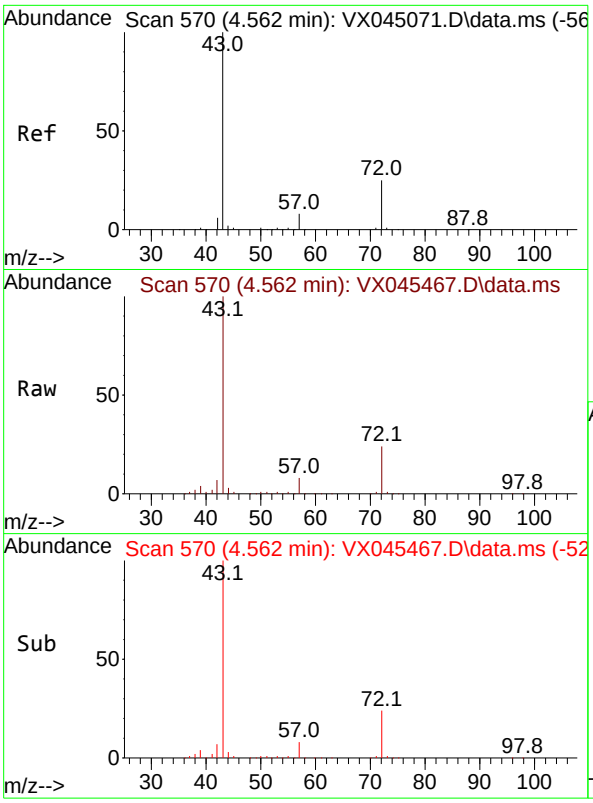


#24
1,1-Dichloroethane
Concen: 52.681 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 63 Resp: 104747

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.4	10.2
100	4.3	2.1	6.5





#25
2-Butanone
Concen: 289.256 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

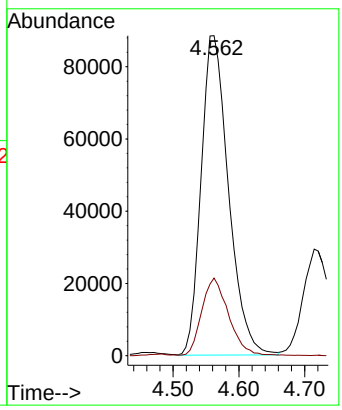
Tgt Ion: 43 Resp: 25627

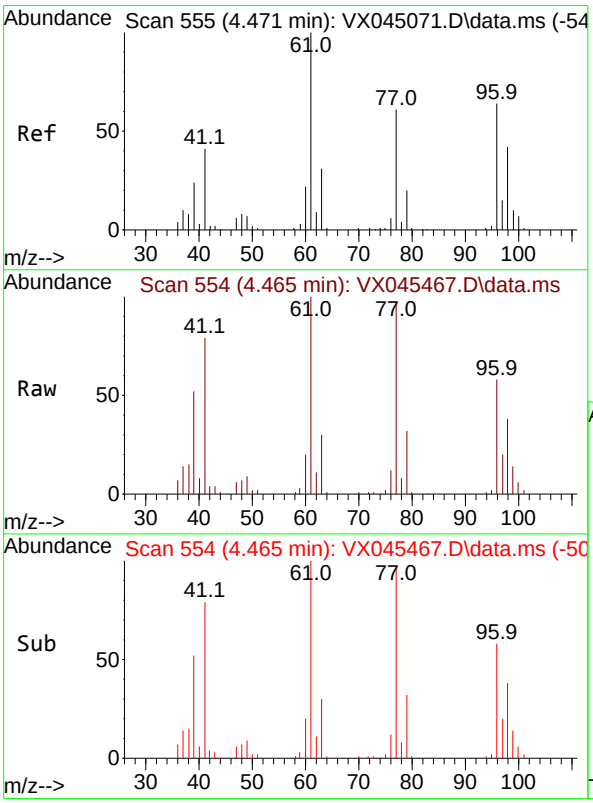
Ion	Ratio	Lower	Upper
43	100		
72	24.2	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

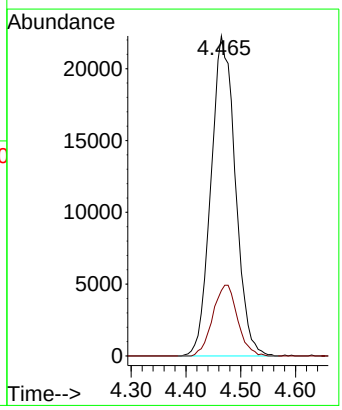


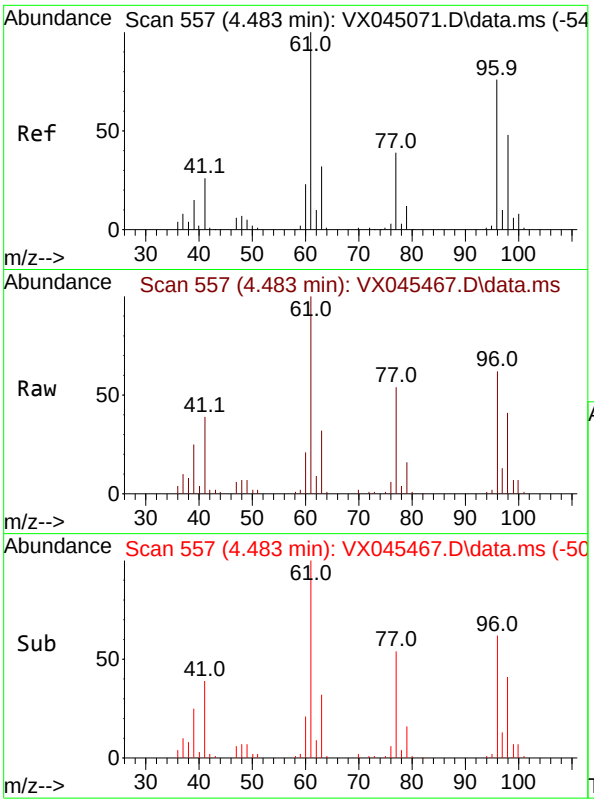


#26
2,2-Dichloropropane
Concen: 73.768 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 77 Resp: 68798

Ion	Ratio	Lower	Upper
77	100		
97	22.5	12.4	37.0

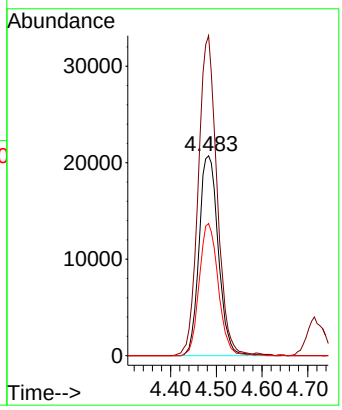




#27
cis-1,2-Dichloroethene
Concen: 50.536 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 96 Resp: 6040

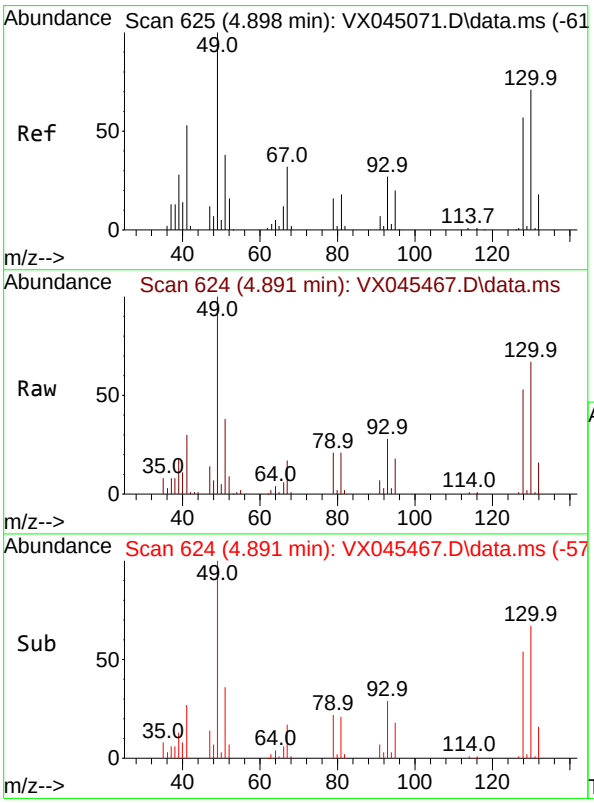
Ion	Ratio	Lower	Upper
96	100		
61	156.0	0.0	283.2
98	65.5	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

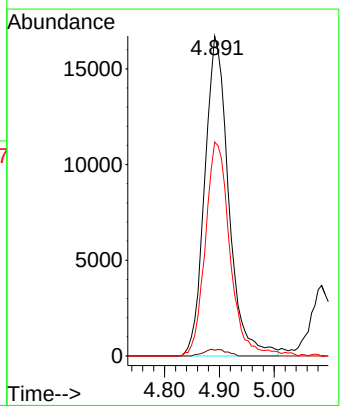
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

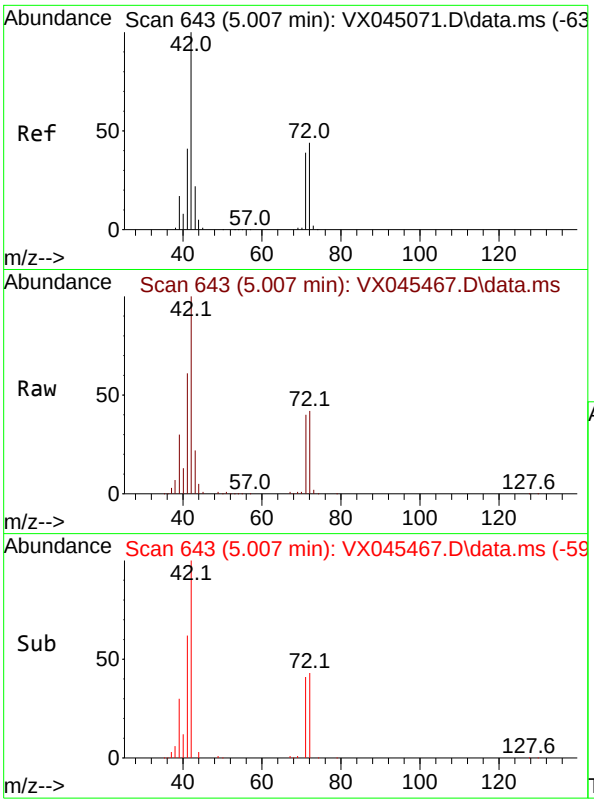


#28
Bromochloromethane
Concen: 53.536 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 49 Resp: 50738

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	68.5	56.1	84.1

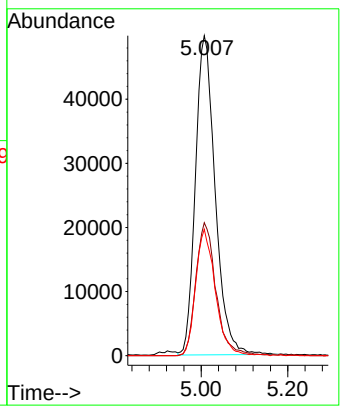




#29
Tetrahydrofuran
Concen: 265.234 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 42 Resp: 15781

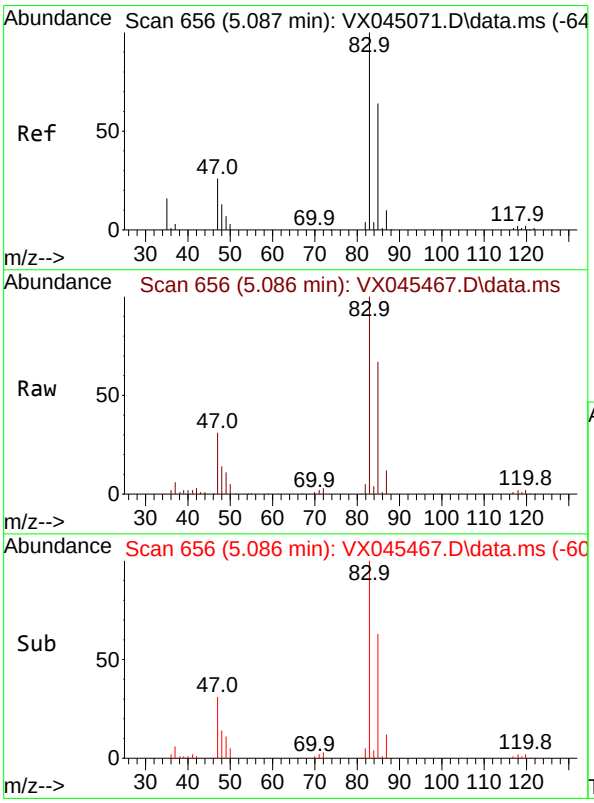
Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.1	51.1
71	39.3	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

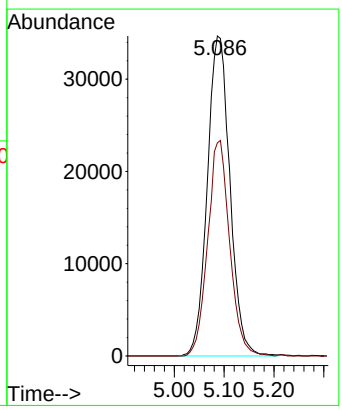
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

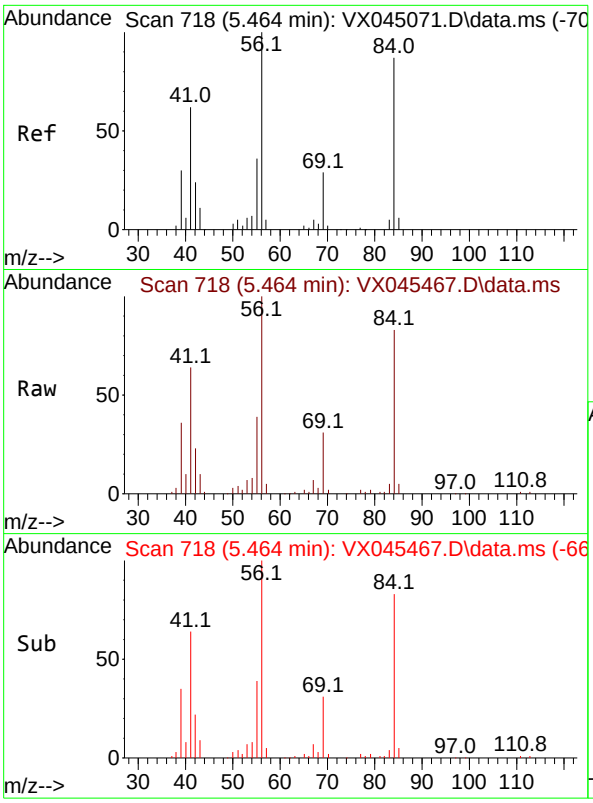


#30
Chloroform
Concen: 55.188 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 83 Resp: 109031

Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.4	77.2





#31
Cyclohexane
Concen: 46.223 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

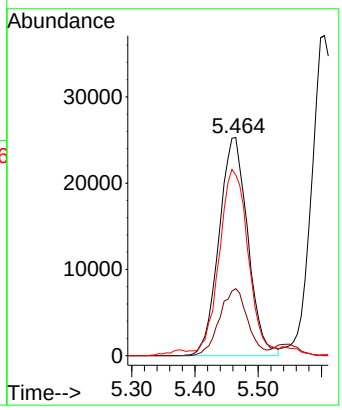
Tgt Ion: 56 Resp: 7978

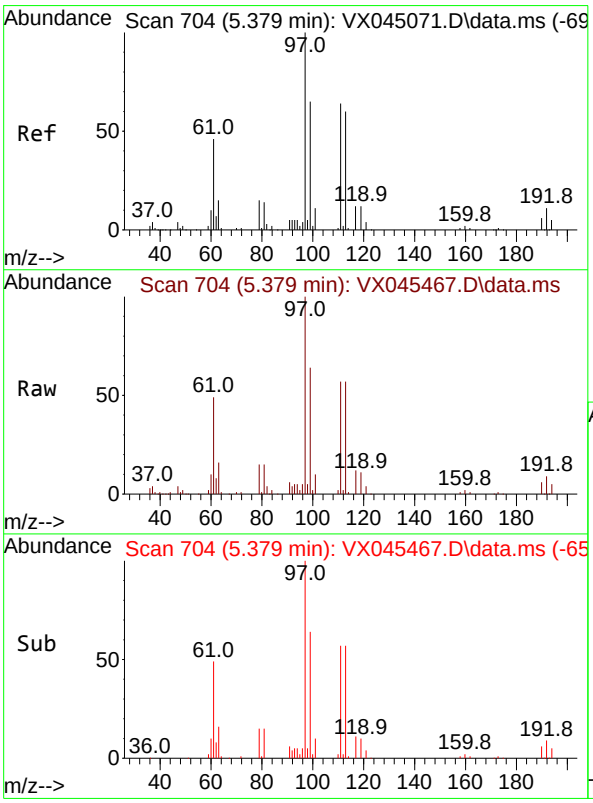
Ion	Ratio	Lower	Upper
56	100		
69	30.7	23.4	35.2
84	80.2	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

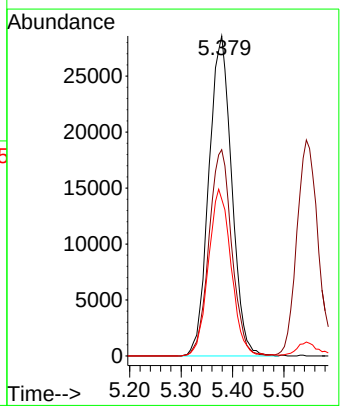


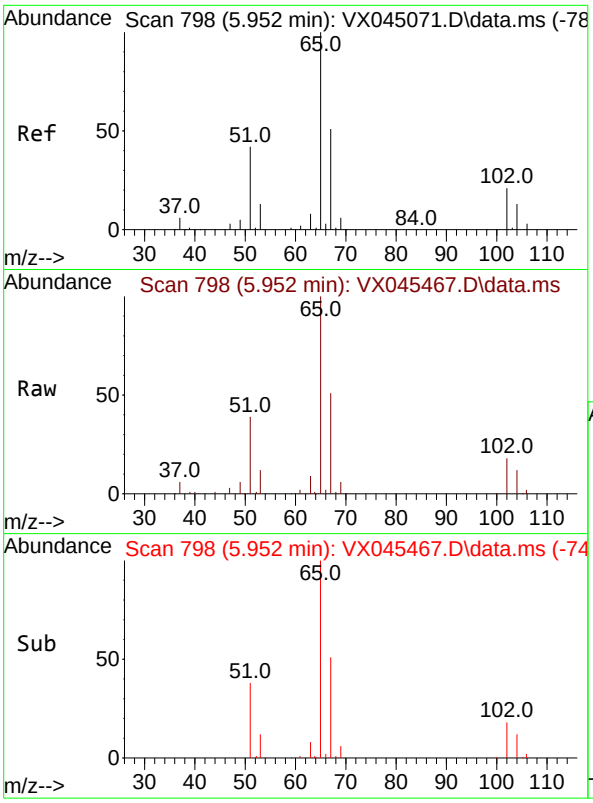


#32
1,1,1-Trichloroethane
Concen: 55.326 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 97 Resp: 88281

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	51.9	38.4	57.6

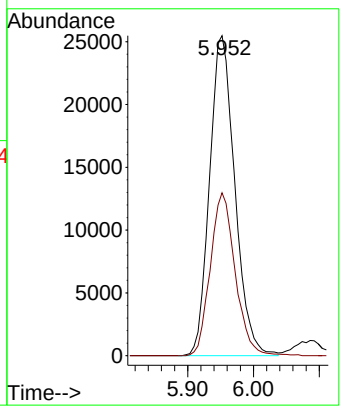




#33
1,2-Dichloroethane-d4
Concen: 53.687 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 65 Resp: 6810

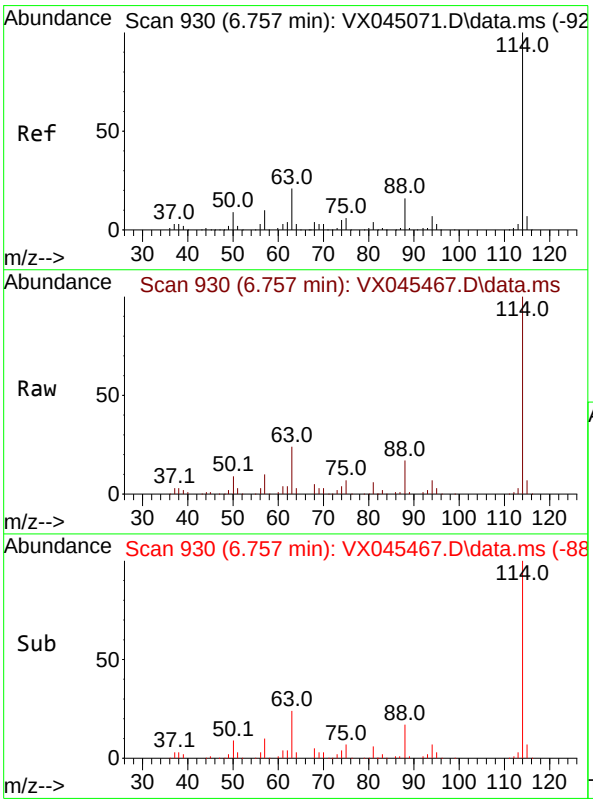
Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

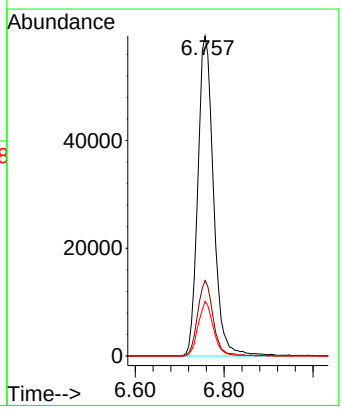
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

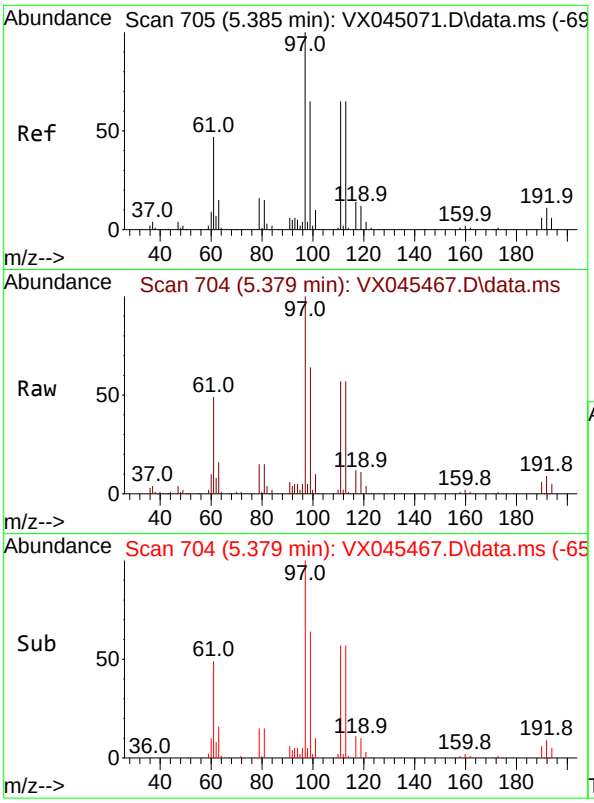


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:114 Resp: 146350

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	41.8
88	17.0	0.0	32.8

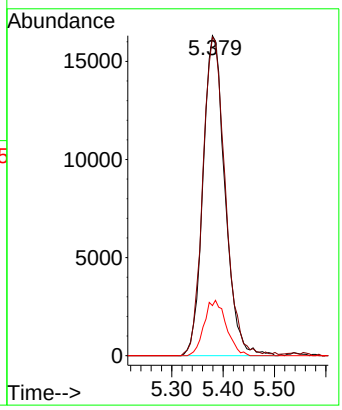




#35
Dibromofluoromethane
Concen: 49.330 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:113 Resp: 4827

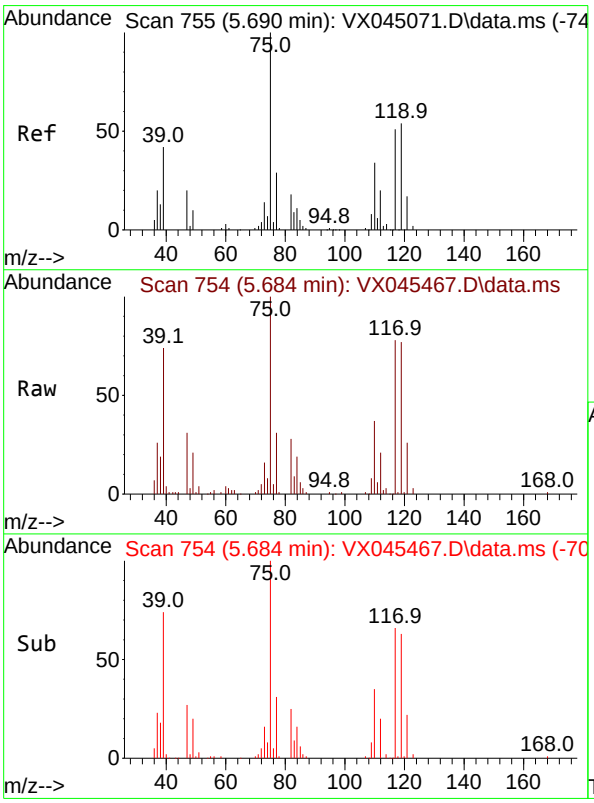
Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.6
192	17.5	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

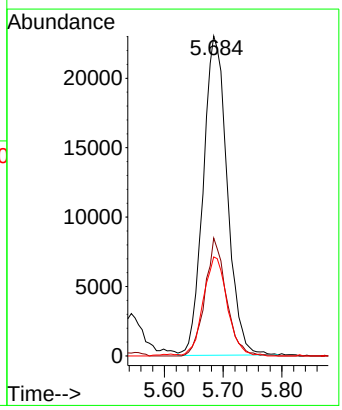
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

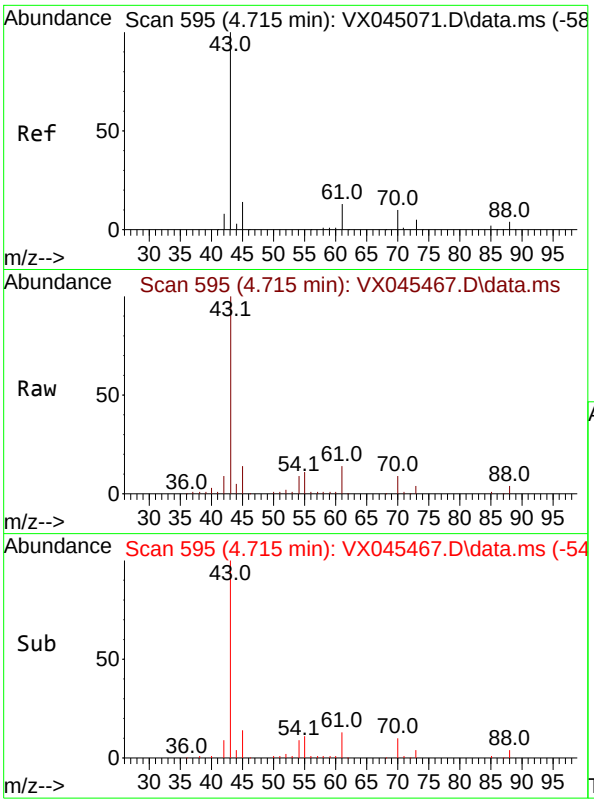


#36
1,1-Dichloropropene
Concen: 48.495 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 65083

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.9	50.6
77	31.0	24.5	36.7

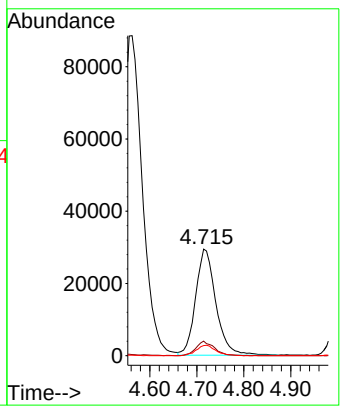




#37
Ethyl Acetate
Concen: 50.852 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 8793

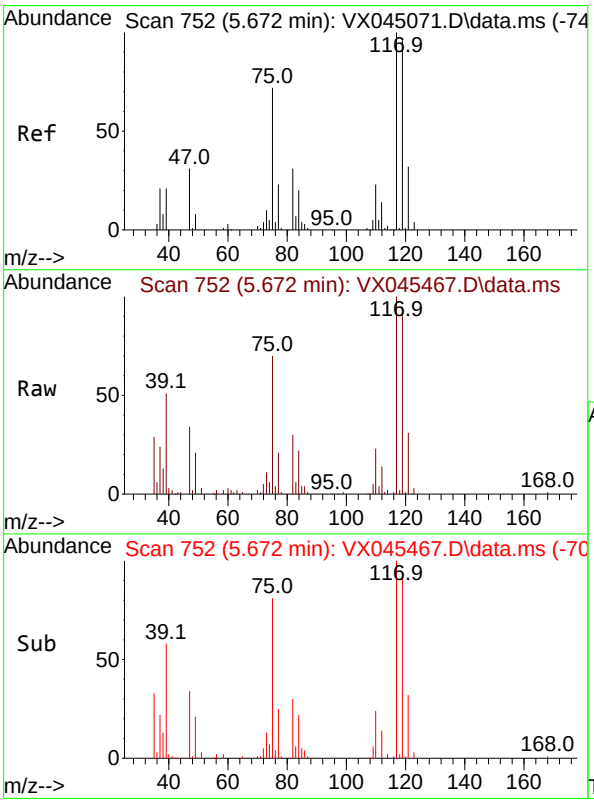
Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.8	16.2
70	9.5	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

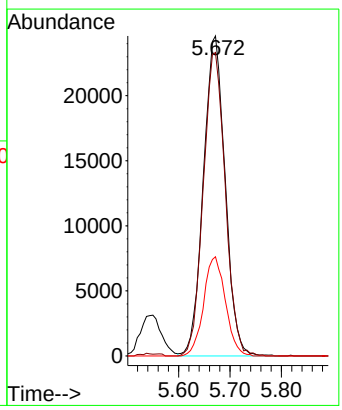
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

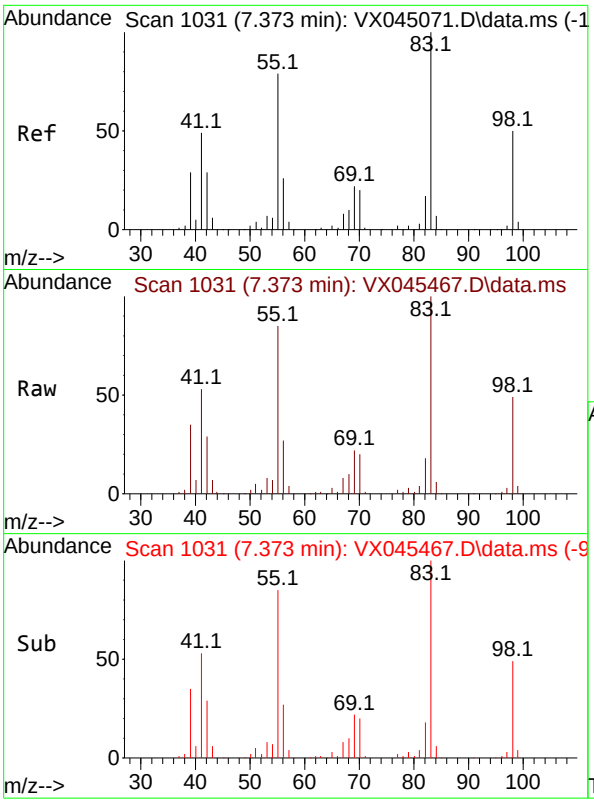


#38
Carbon Tetrachloride
Concen: 53.077 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:117 Resp: 72318

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.7	115.1
121	31.0	25.5	38.3

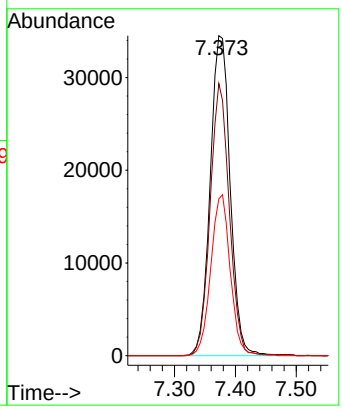




#39
Methylcyclohexane
Concen: 48.920 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 83 Resp: 7866

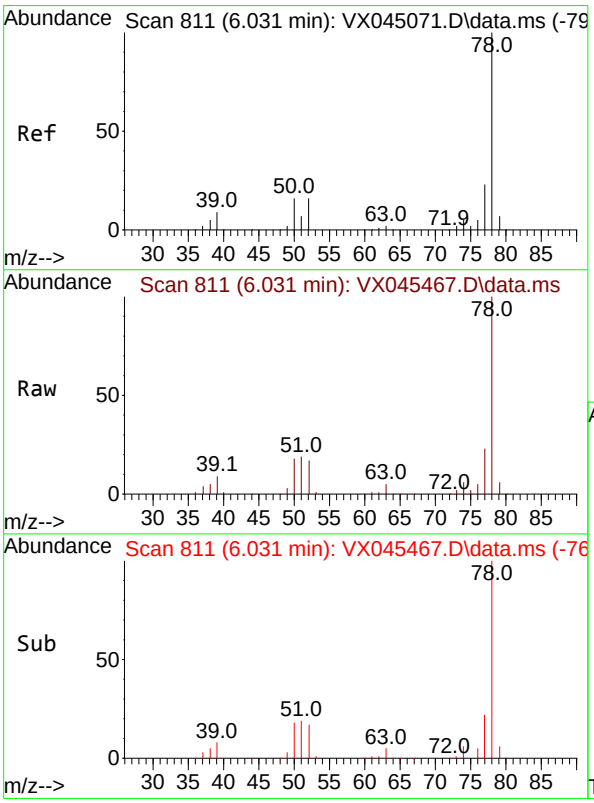
Ion	Ratio	Lower	Upper
83	100		
55	85.1	63.0	94.4
98	49.0	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

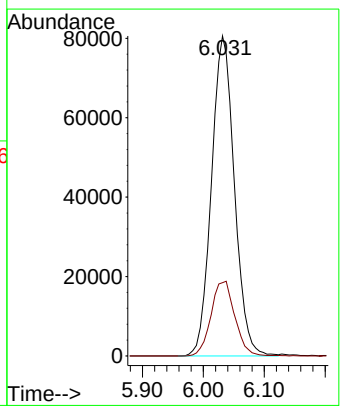
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

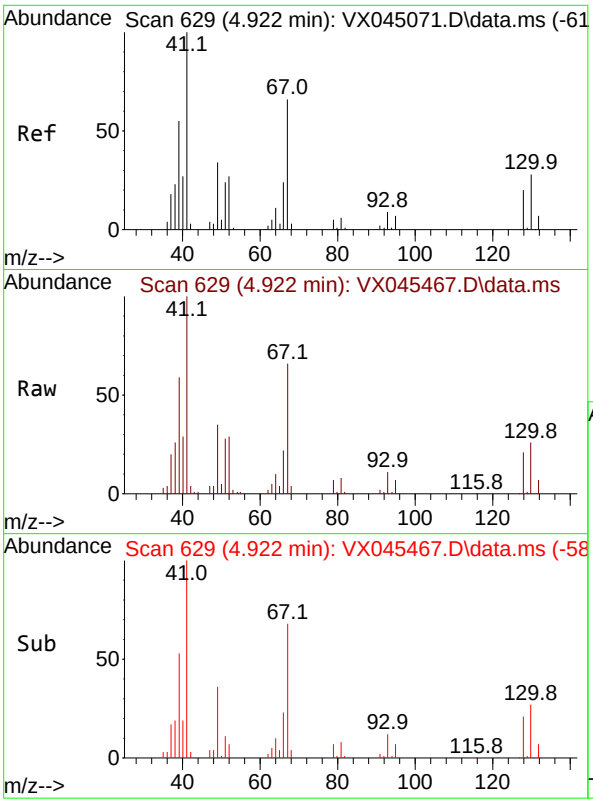


#40
Benzene
Concen: 49.669 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 78 Resp: 210492

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.8	28.2

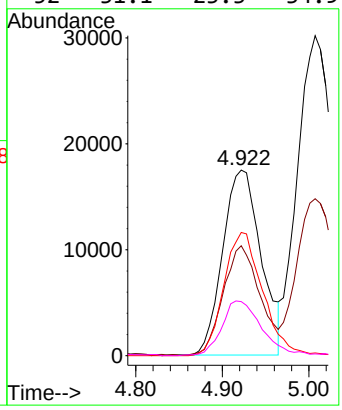




#41
Methacrylonitrile
Concen: 57.624 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 41 Resp: 5388

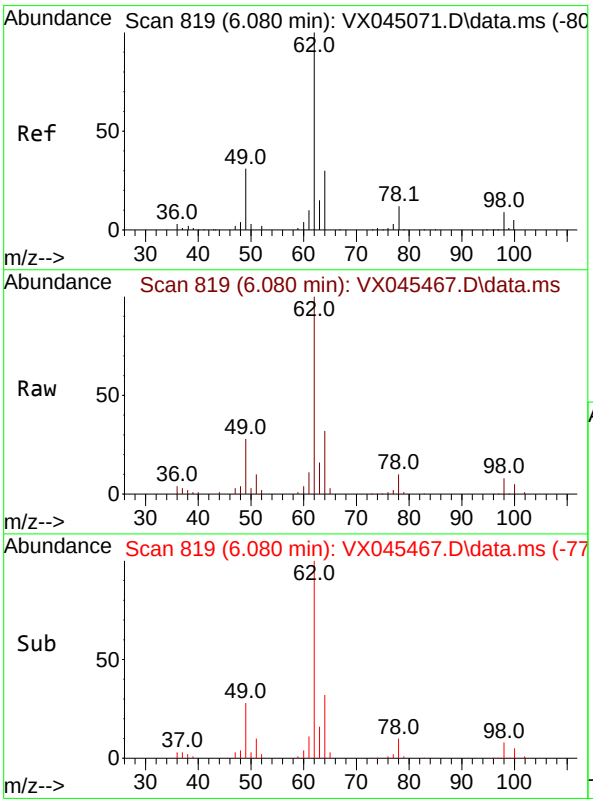
Ion	Ratio	Lower	Upper
41	100		
39	56.5	44.6	67.0
67	67.6	53.9	80.9
52	31.1	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

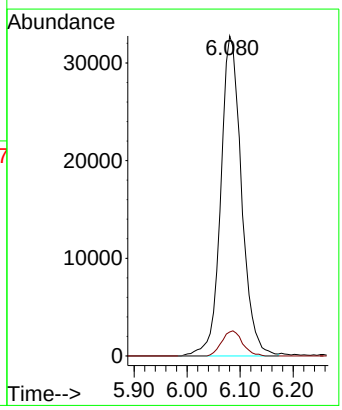
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

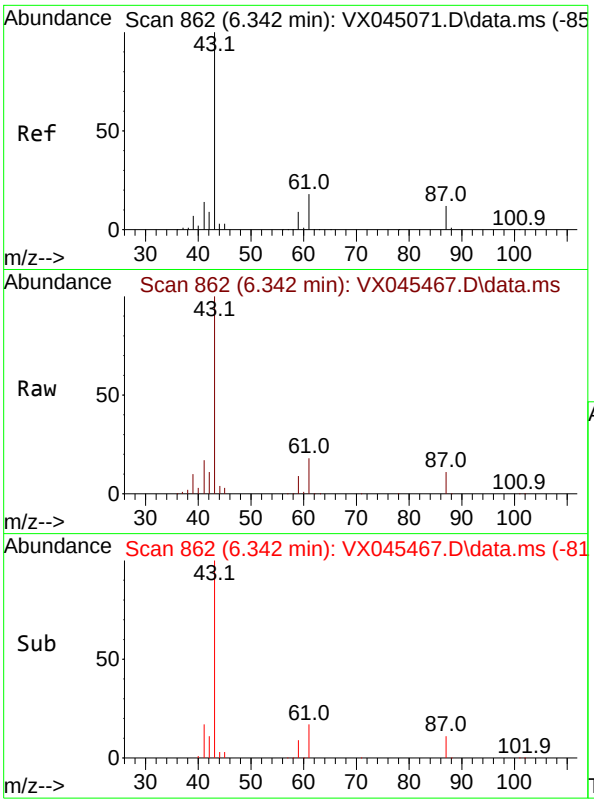


#42
1,2-Dichloroethane
Concen: 58.409 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 62 Resp: 89136

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2





#43
Isopropyl Acetate
Concen: 54.473 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

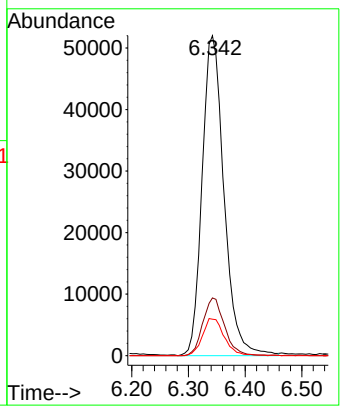
Tgt Ion: 43 Resp: 13929

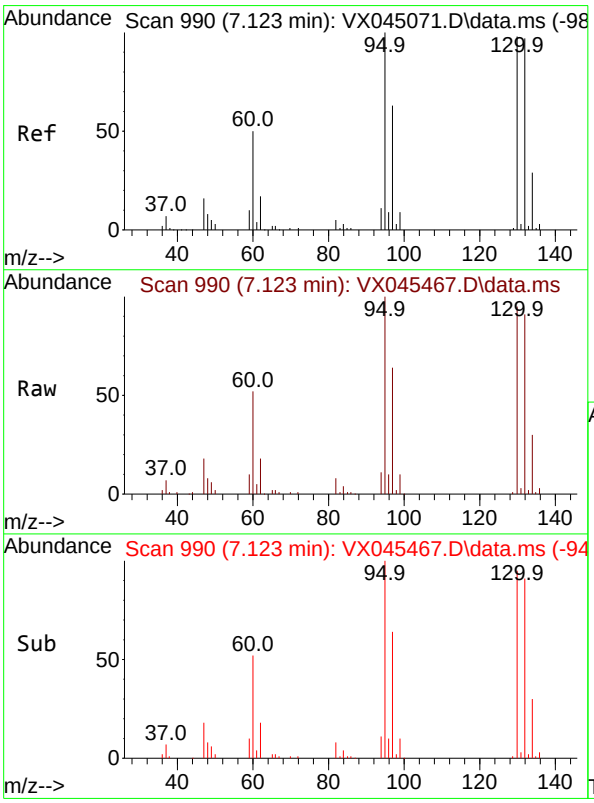
Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.9	22.3
87	11.6	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

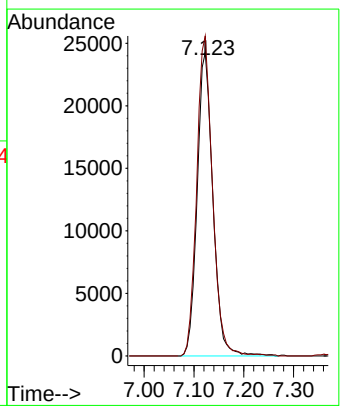


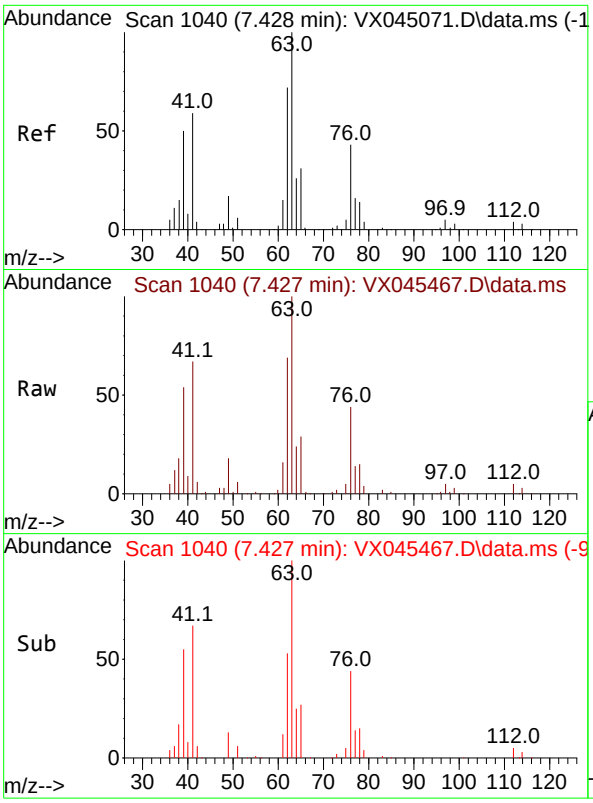


#44
Trichloroethene
Concen: 53.470 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:130 Resp: 53208

Ion	Ratio	Lower	Upper
130	100		
95	105.5	0.0	205.0

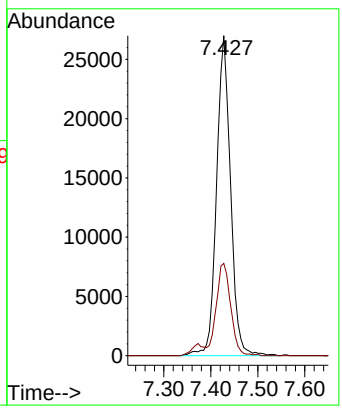




#45
1,2-Dichloropropane
Concen: 51.364 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 63 Resp: 5596

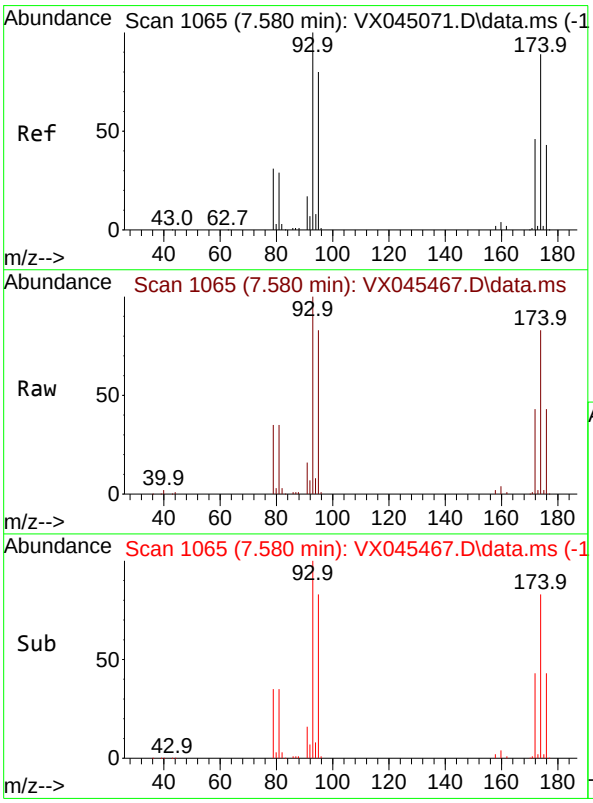
Ion	Ratio	Lower	Upper
63	100		
65	28.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

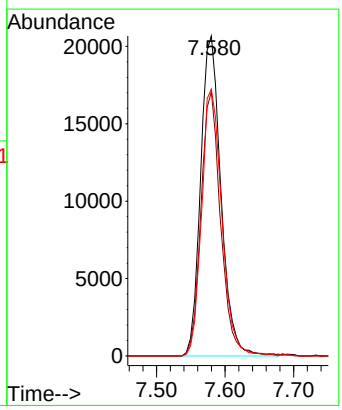
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

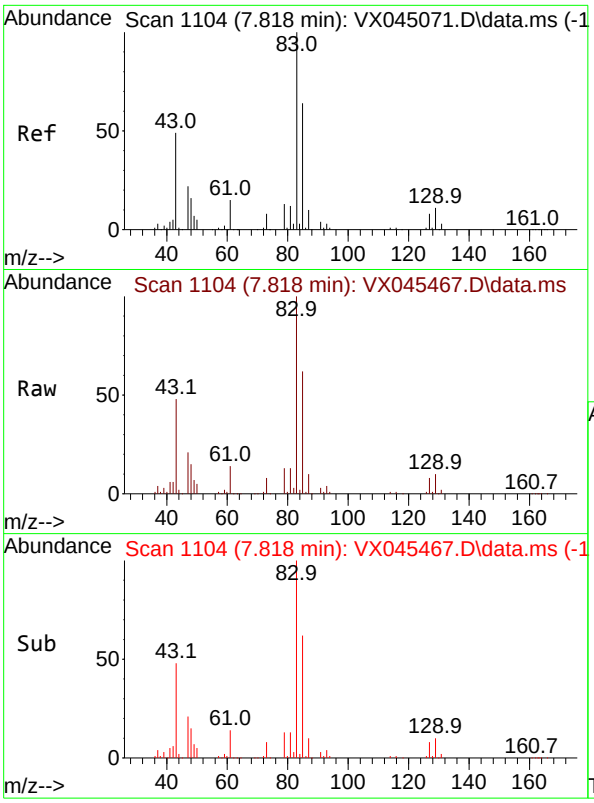


#46
Dibromomethane
Concen: 55.348 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 93 Resp: 42626

Ion	Ratio	Lower	Upper
93	100		
95	80.2	65.8	98.8
174	83.2	72.2	108.2

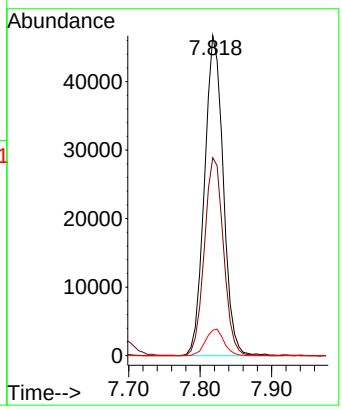




#47
Bromodichloromethane
Concen: 56.299 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

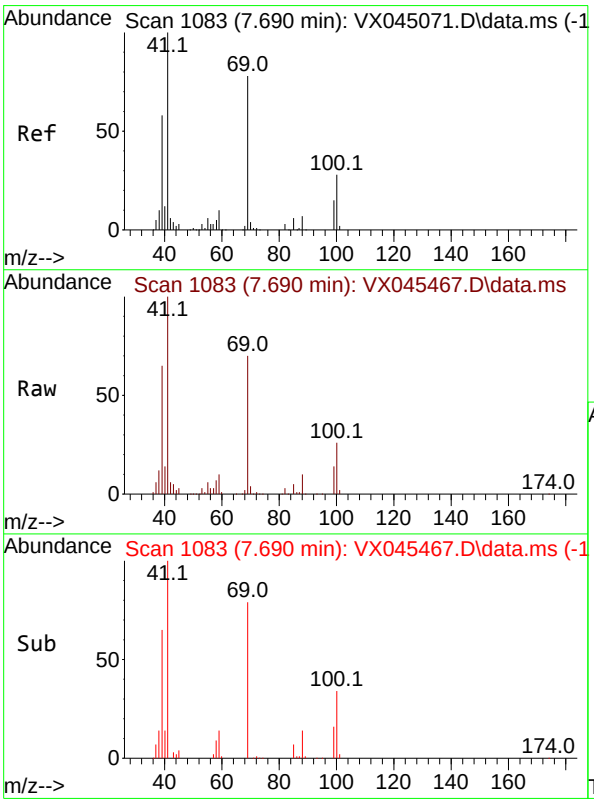
Tgt Ion: 83 Resp: 8504

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

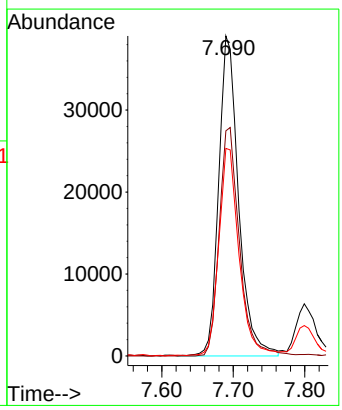
Manual Integrations
APPROVED
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

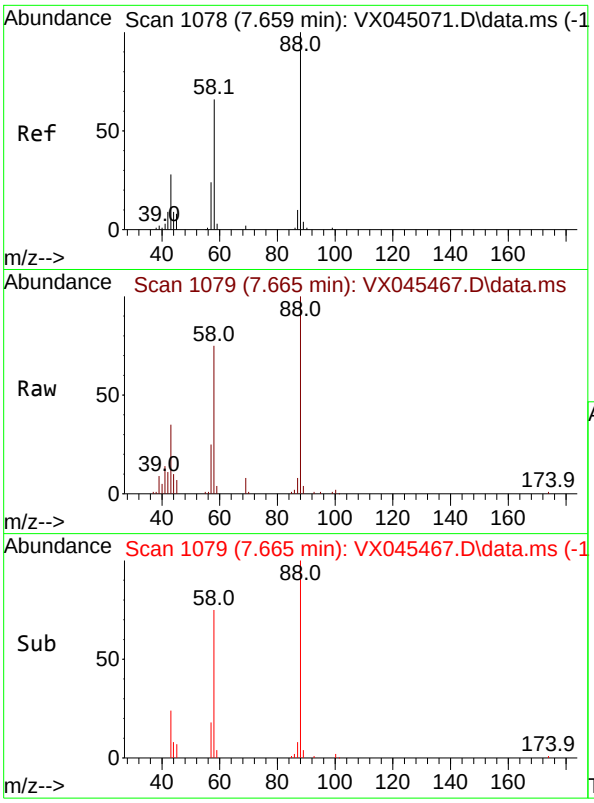


#48
Methyl methacrylate
Concen: 58.917 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 41 Resp: 75585

Ion	Ratio	Lower	Upper
41	100		
69	72.6	63.0	94.6
39	65.4	47.5	71.3

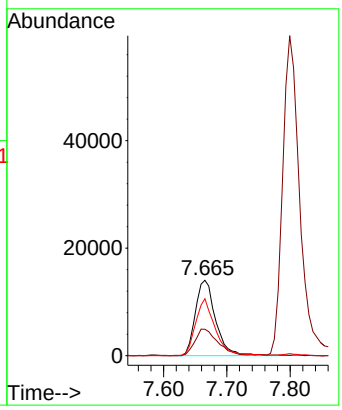




#49
1,4-Dioxane
Concen: 1154.916 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 88 Resp: 3125

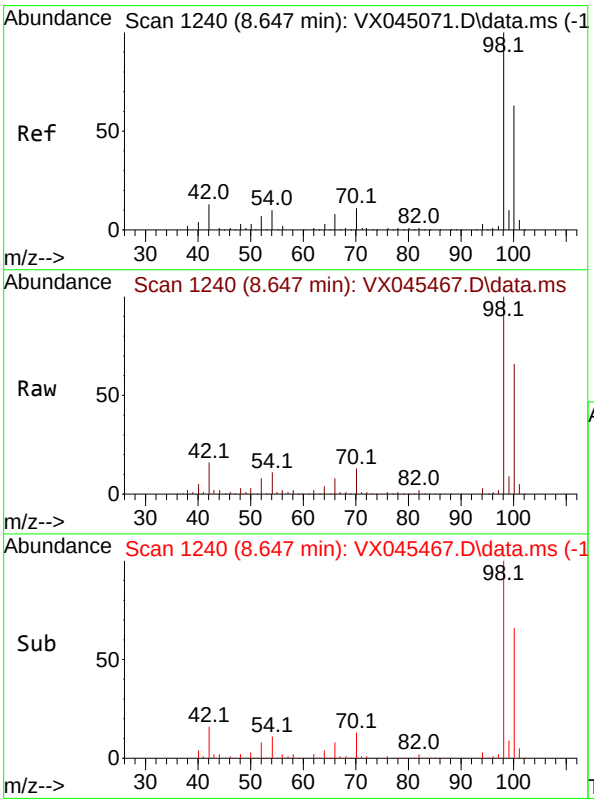
Ion	Ratio	Lower	Upper
88	100		
43	40.4	28.7	43.1
58	72.7	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

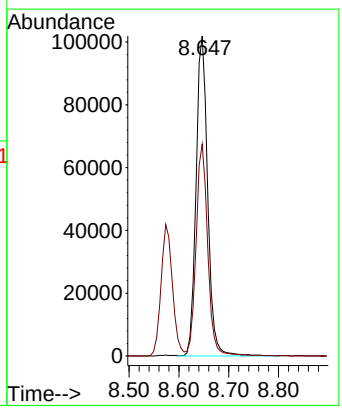
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

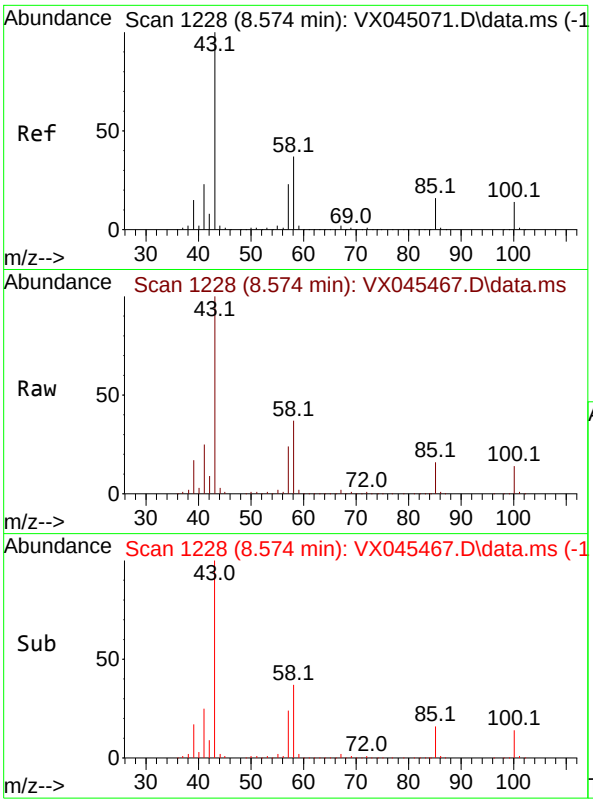


#50
Toluene-d8
Concen: 46.477 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 98 Resp: 164889

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.0	78.0

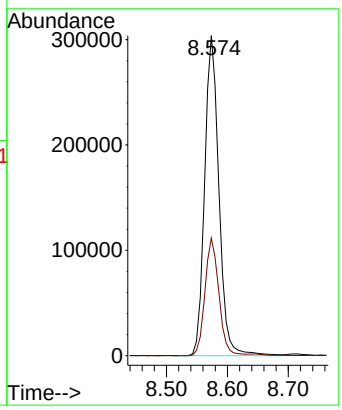




#51
4-Methyl-2-Pentanone
Concen: 288.370 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 49513

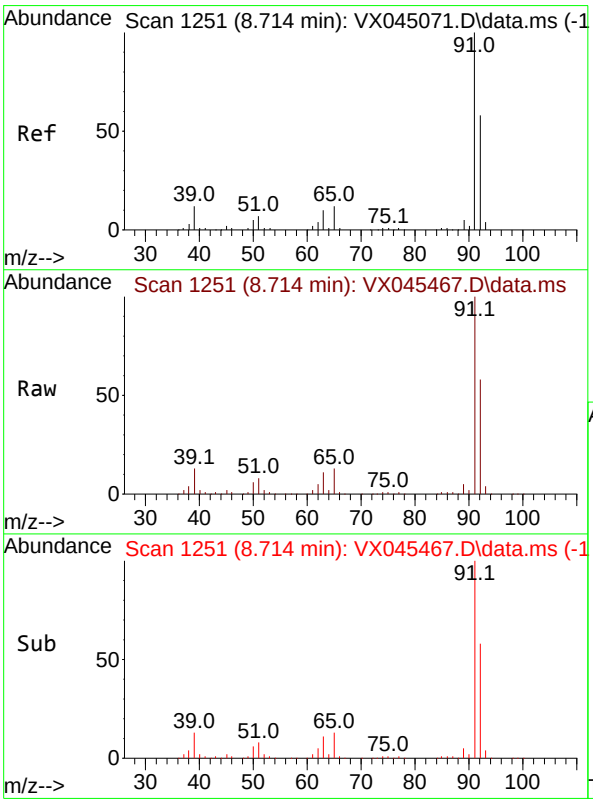
Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

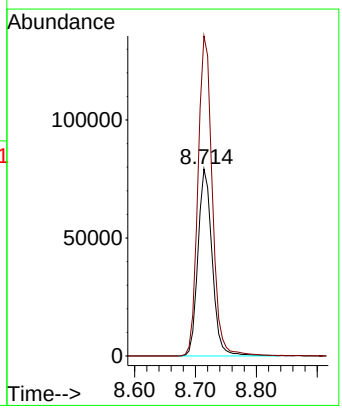
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

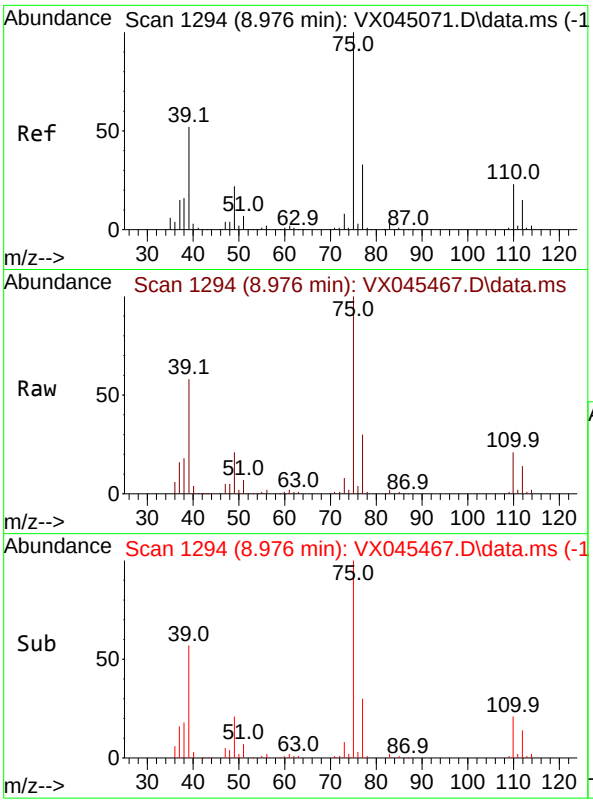


#52
Toluene
Concen: 51.594 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 92 Resp: 128286

Ion	Ratio	Lower	Upper
92	100		
91	173.0	138.9	208.3

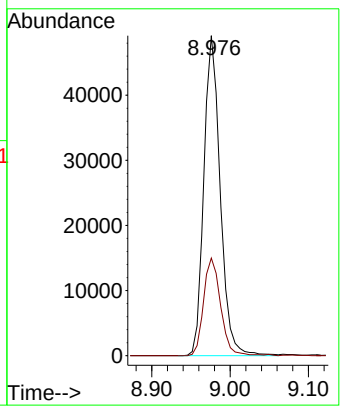




#53
t-1,3-Dichloropropene
Concen: 56.484 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 7133

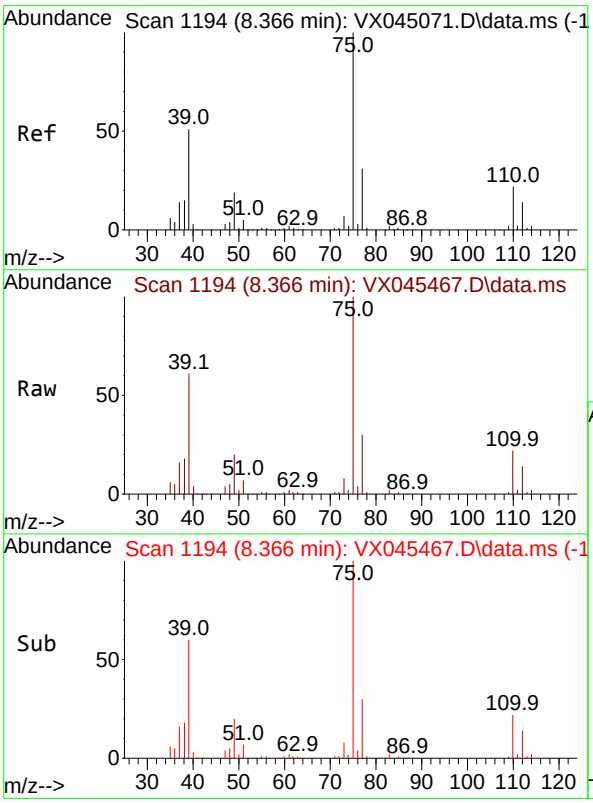
Ion	Ratio	Lower	Upper
75	100		
77	30.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

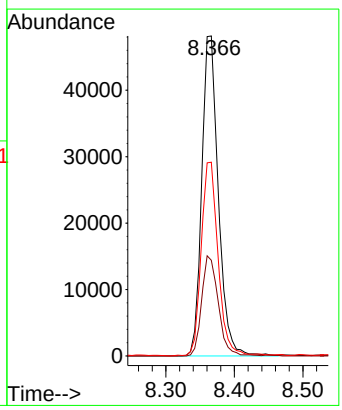
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

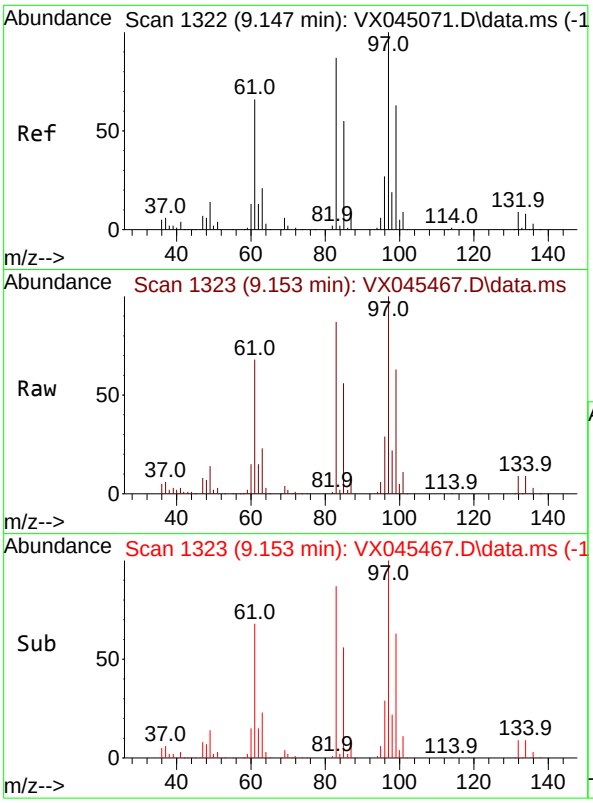


#54
cis-1,3-Dichloropropene
Concen: 55.168 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 81244

Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.7	37.1
39	60.3	40.7	61.1

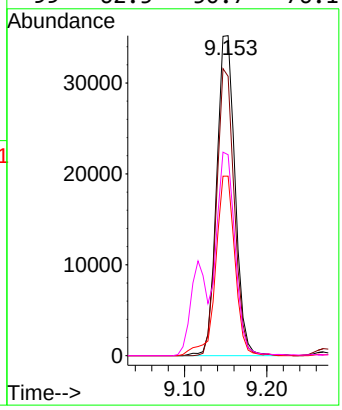




#55
1,1,2-Trichloroethane
Concen: 53.517 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 97 Resp: 5478

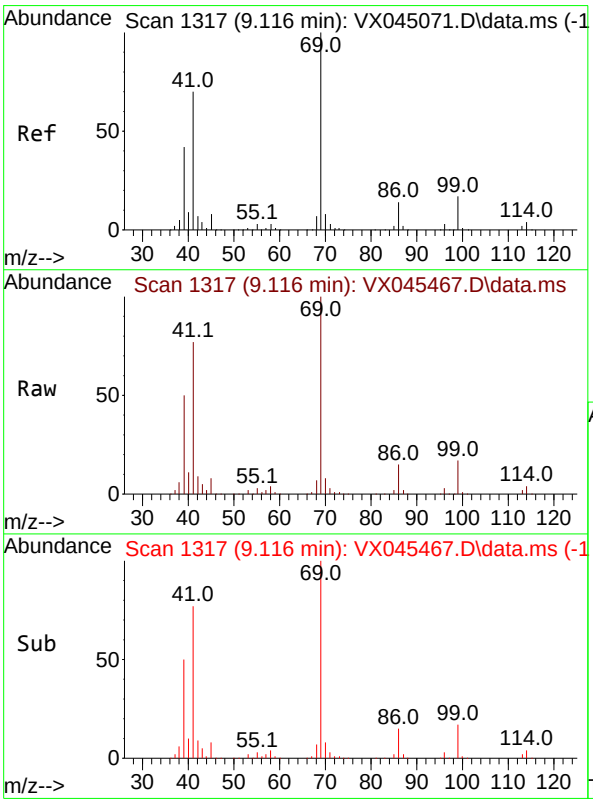
Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.4	104.2
85	56.1	44.1	66.1
99	62.5	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

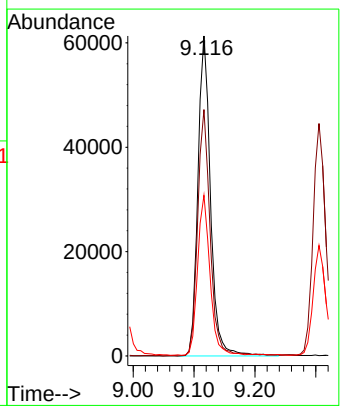
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

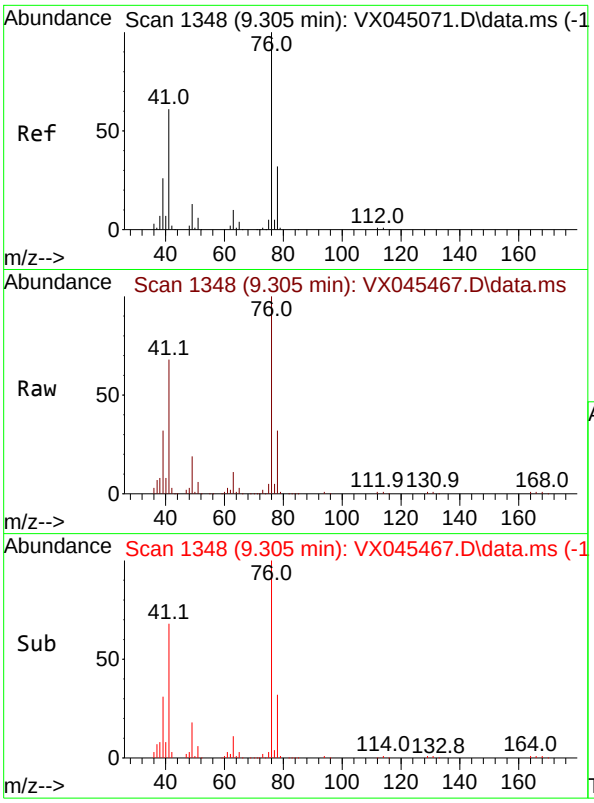


#56
Ethyl methacrylate
Concen: 56.598 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 69 Resp: 88064

Ion	Ratio	Lower	Upper
69	100		
41	77.1	57.0	85.4
39	49.2	34.2	51.4

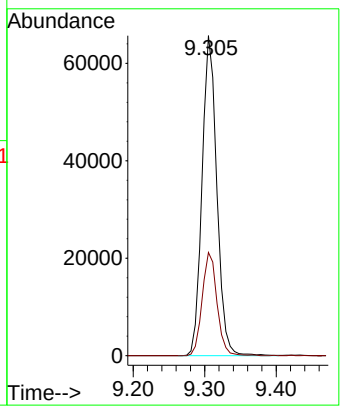




#57
1,3-Dichloropropane
Concen: 53.232 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 76 Resp: 9429

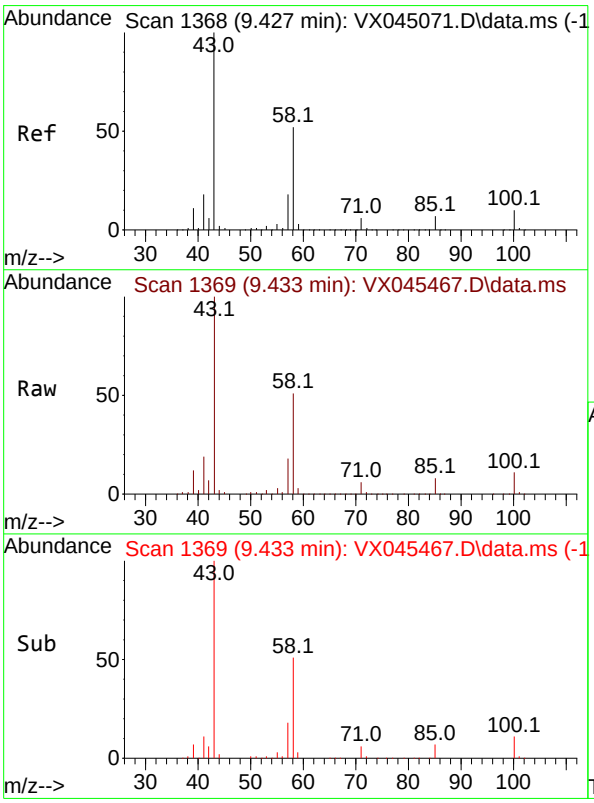
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

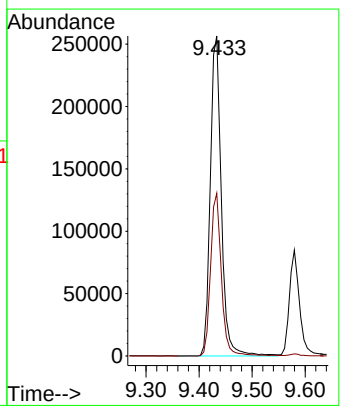
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

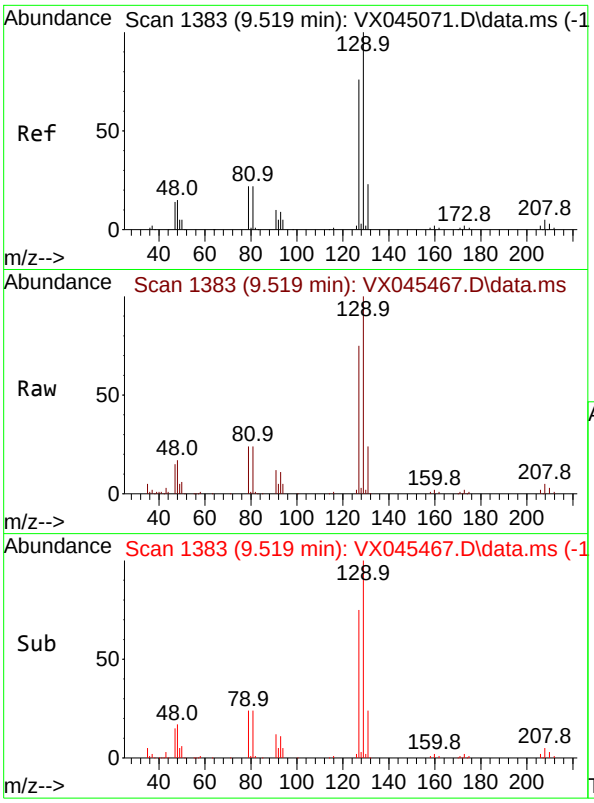


#59
2-Hexanone
Concen: 296.710 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 369120

Ion	Ratio	Lower	Upper
43	100		
58	50.0	25.9	77.6

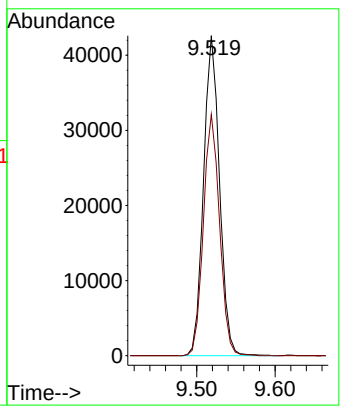




#60
Dibromochloromethane
Concen: 56.210 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:129 Resp: 6016

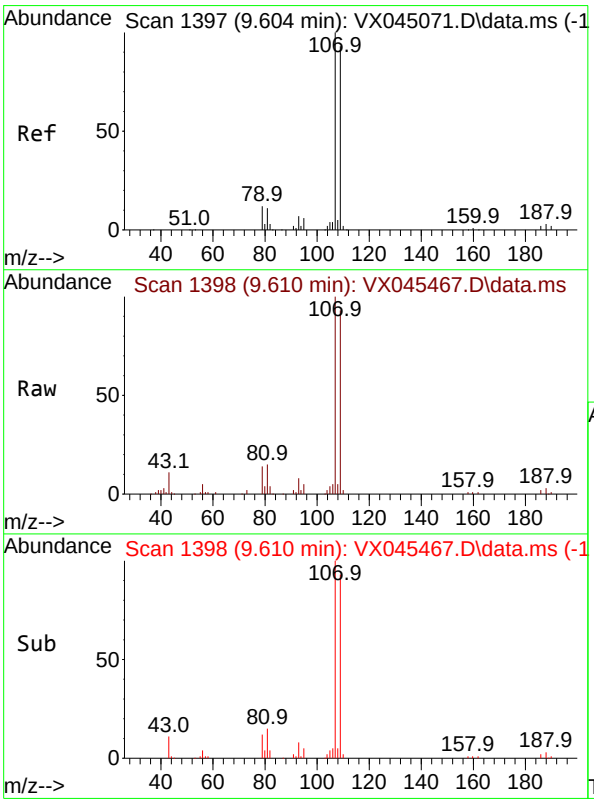
Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.5	115.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

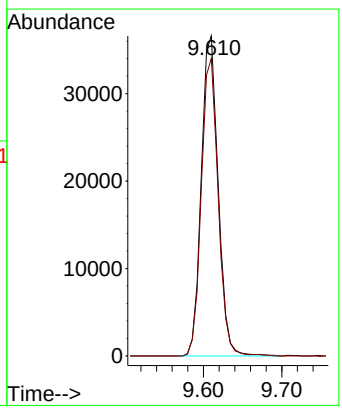
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

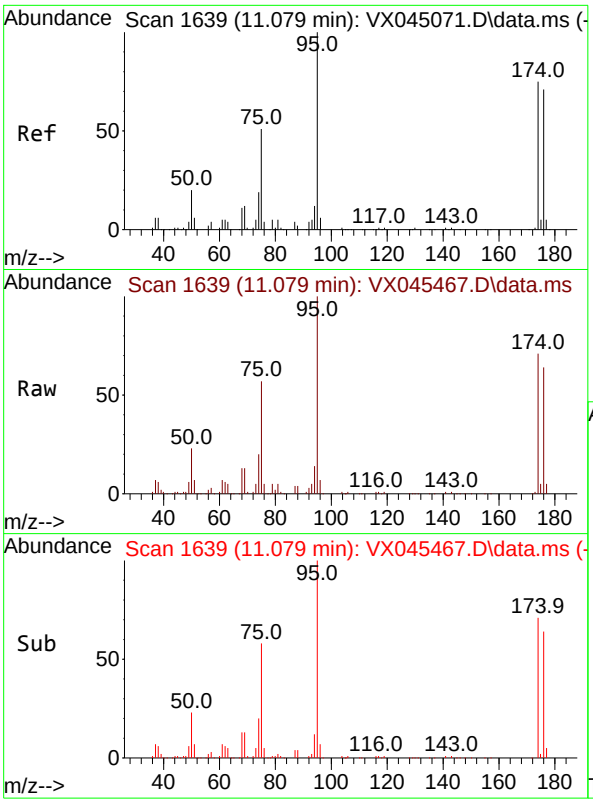


#61
1,2-Dibromoethane
Concen: 53.511 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:107 Resp: 54681

Ion	Ratio	Lower	Upper
107	100		
109	92.8	76.1	114.1

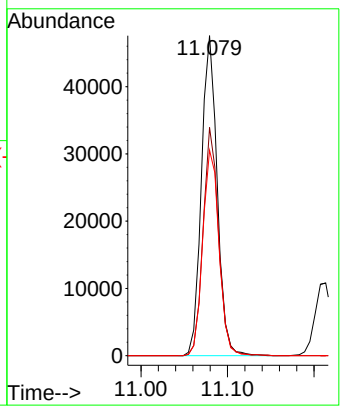




#62
4-Bromofluorobenzene
Concen: 51.123 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 95 Resp: 6010

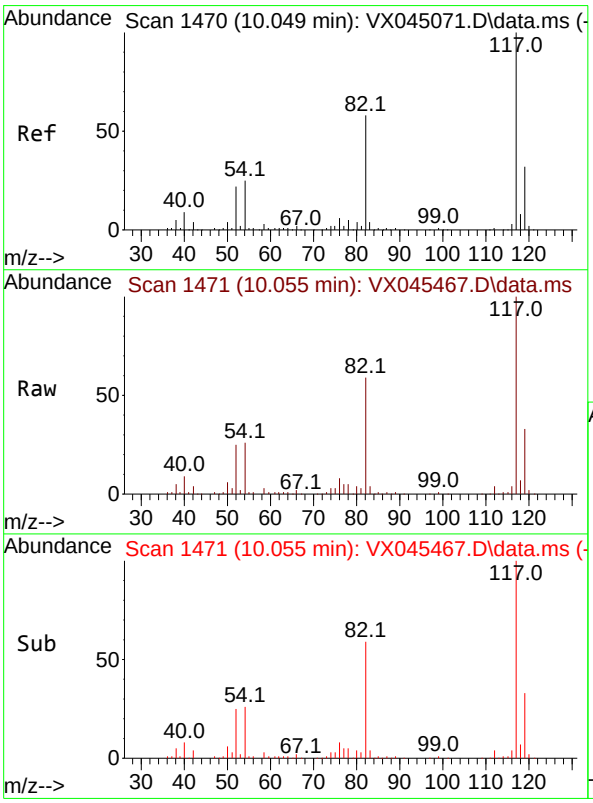
Ion	Ratio	Lower	Upper
95	100		
174	70.1	0.0	148.2
176	66.6	0.0	141.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

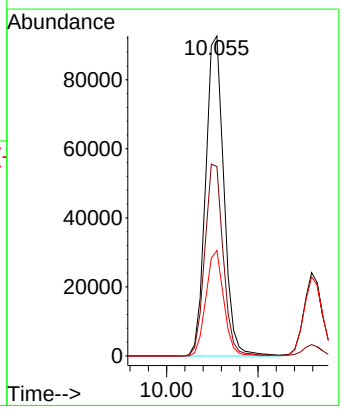
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

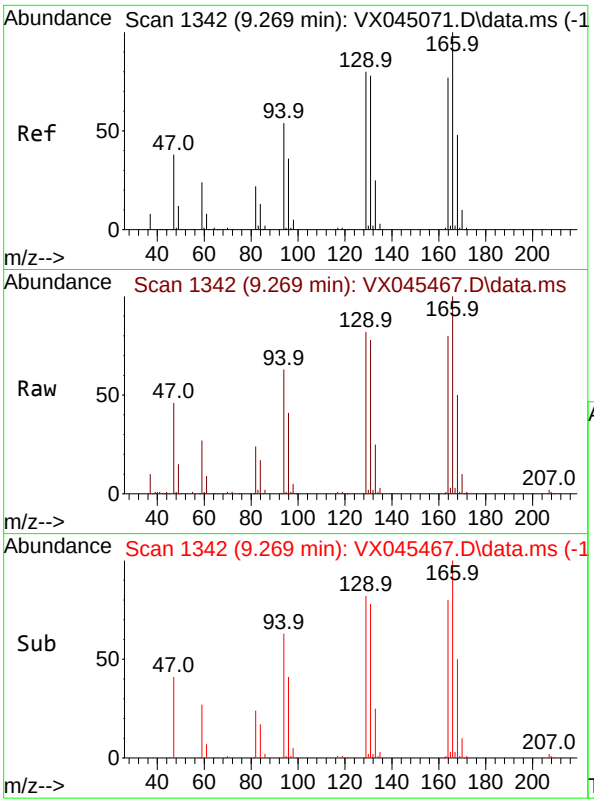


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:117 Resp: 128351

Ion	Ratio	Lower	Upper
117	100		
82	59.2	46.3	69.5
119	33.0	25.7	38.5

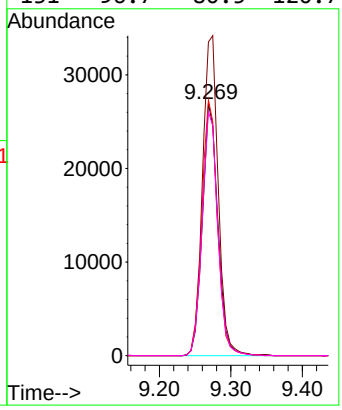




#64
Tetrachloroethene
Concen: 49.320 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:164 Resp: 4054

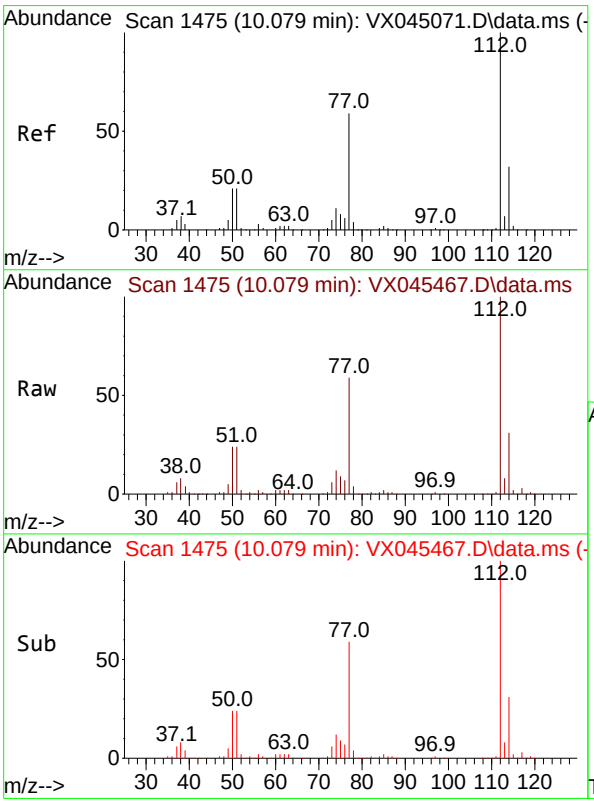
Ion	Ratio	Lower	Upper
164	100		
166	124.5	103.6	155.4
129	101.5	82.7	124.1
131	96.7	80.5	120.7



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

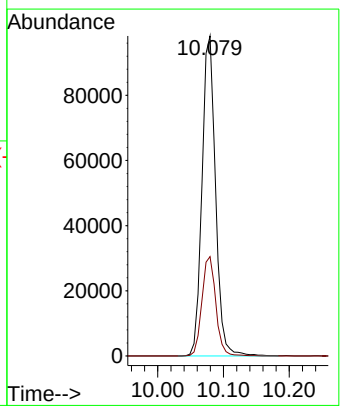
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

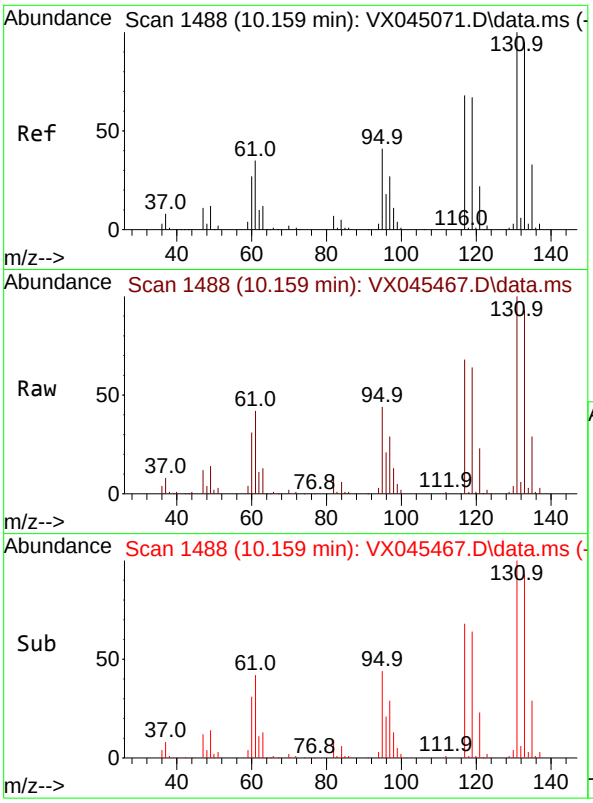


#65
Chlorobenzene
Concen: 51.830 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:112 Resp: 140765

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 53.892 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

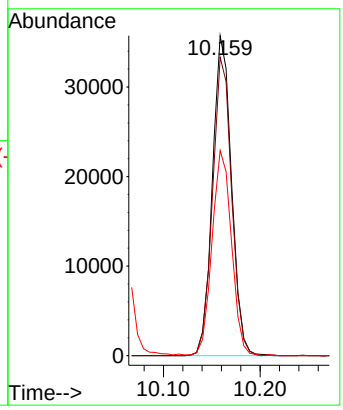
Tgt Ion:131 Resp: 4874

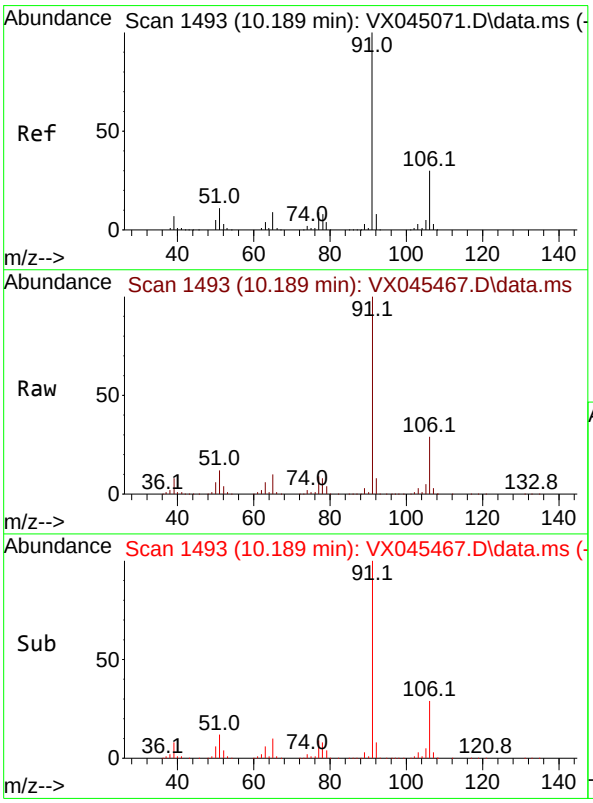
Ion	Ratio	Lower	Upper
131	100		
133	93.7	48.6	145.9
119	65.5	33.9	101.7

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

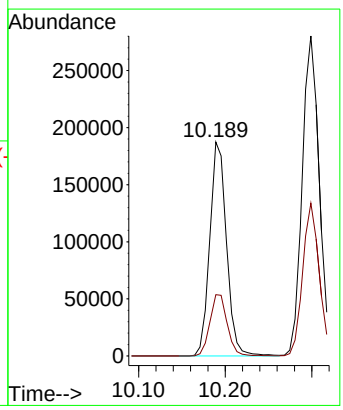


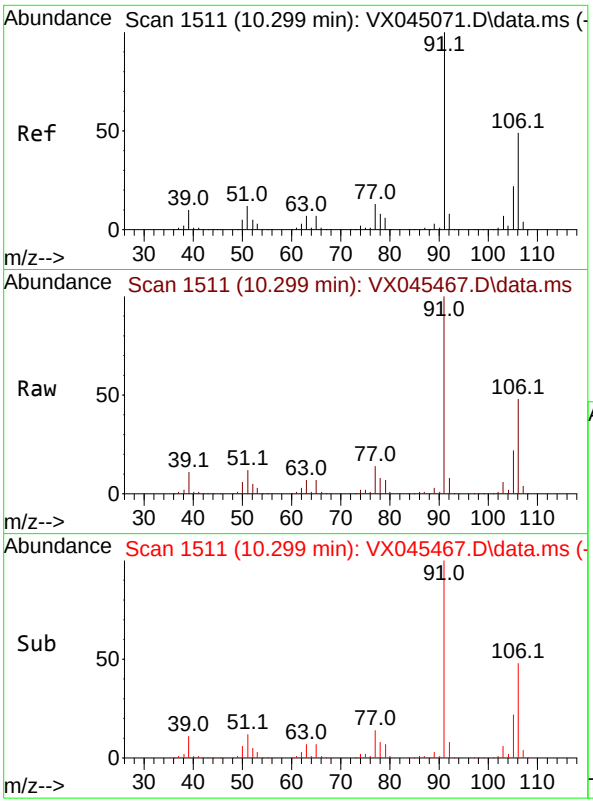


#67
Ethyl Benzene
Concen: 53.212 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 91 Resp: 251811

Ion	Ratio	Lower	Upper
91	100		
106	28.6	23.9	35.9

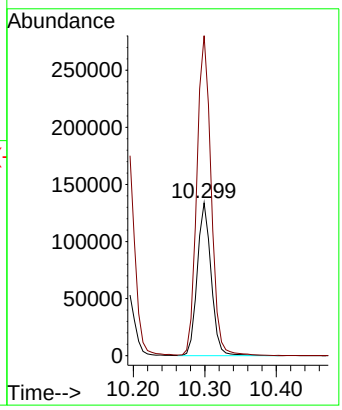




#68
m/p-Xylenes
Concen: 103.899 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:106 Resp: 17999

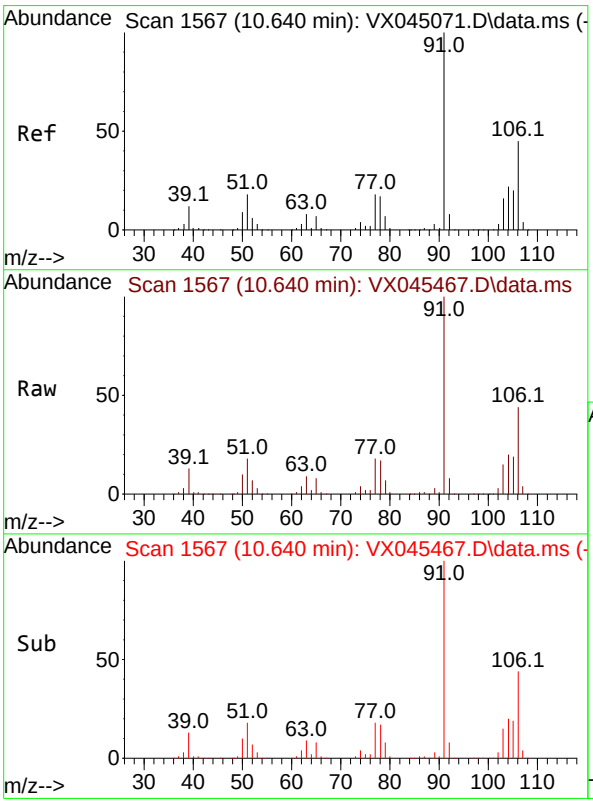
Ion	Ratio	Lower	Upper
106	100		
91	215.8	165.4	248.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

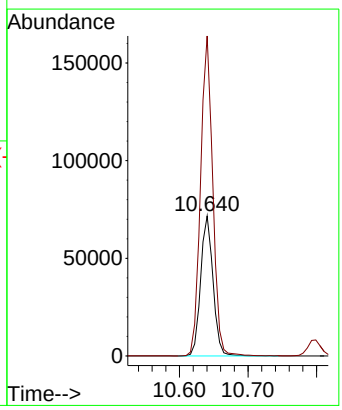
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

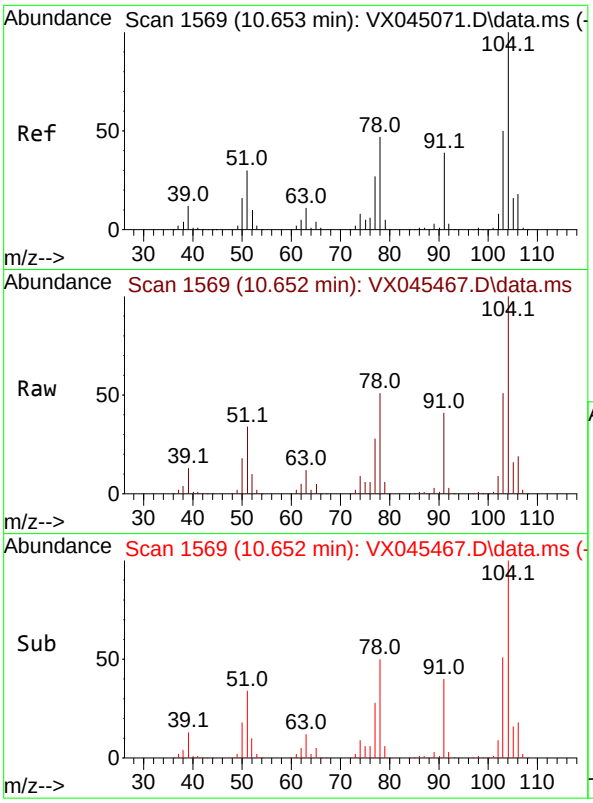


#69
o-Xylene
Concen: 51.655 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:106 Resp: 90251

Ion	Ratio	Lower	Upper
106	100		
91	225.4	109.9	329.6

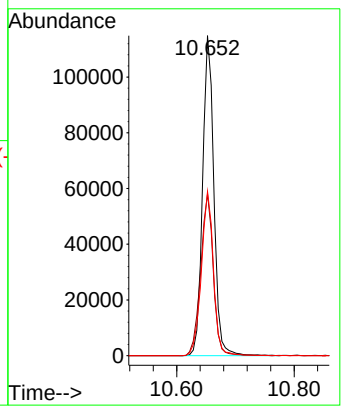




#70
Styrene
Concen: 54.010 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:104 Resp: 15269

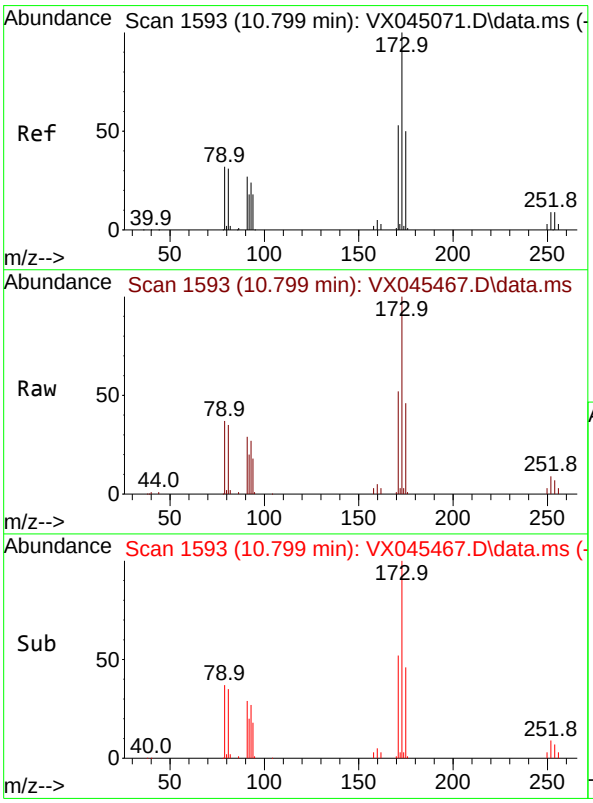
Ion	Ratio	Lower	Upper
104	100		
78	56.5	42.2	63.4
103	55.2	43.8	65.8



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

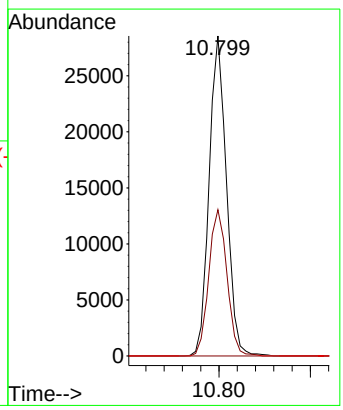
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

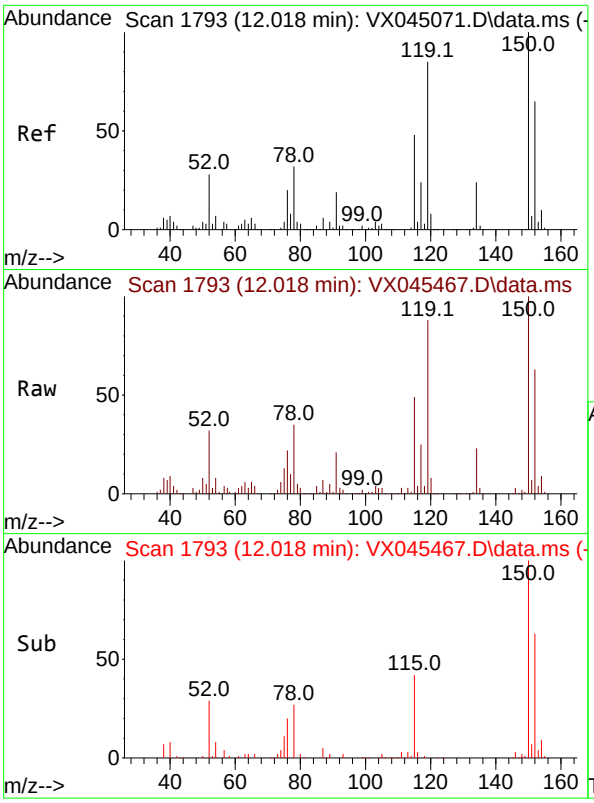


#71
Bromoform
Concen: 54.901 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:173 Resp: 37444

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.6	73.6
254	0.0	0.0	0.0

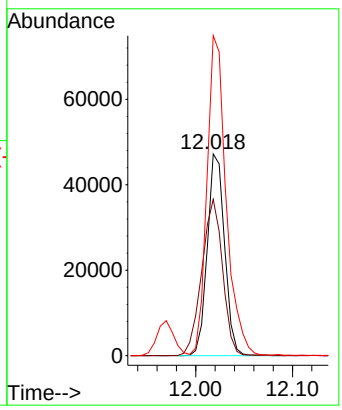




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:152 Resp: 5876

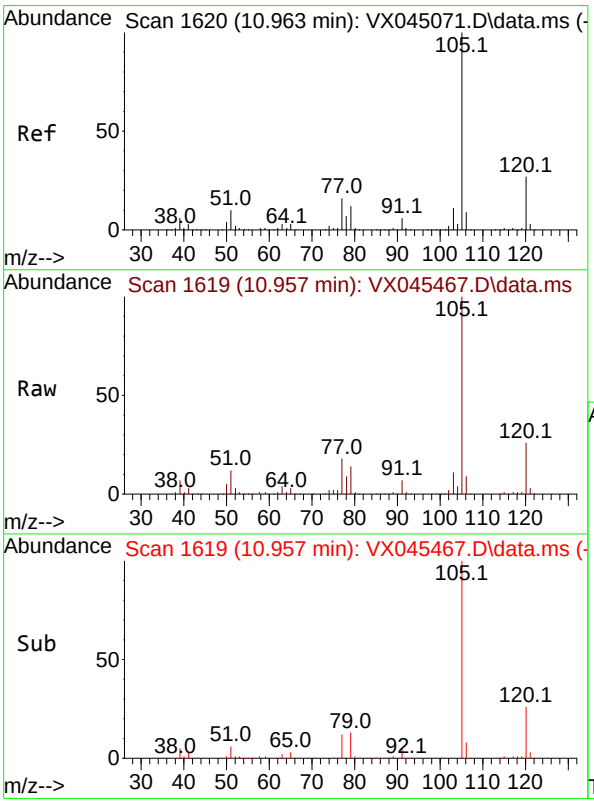
Ion	Ratio	Lower	Upper
152	100		
115	93.0	44.2	132.6
150	175.0	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

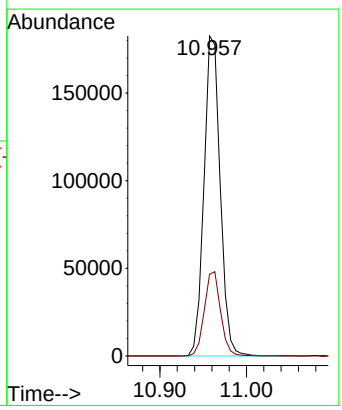
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

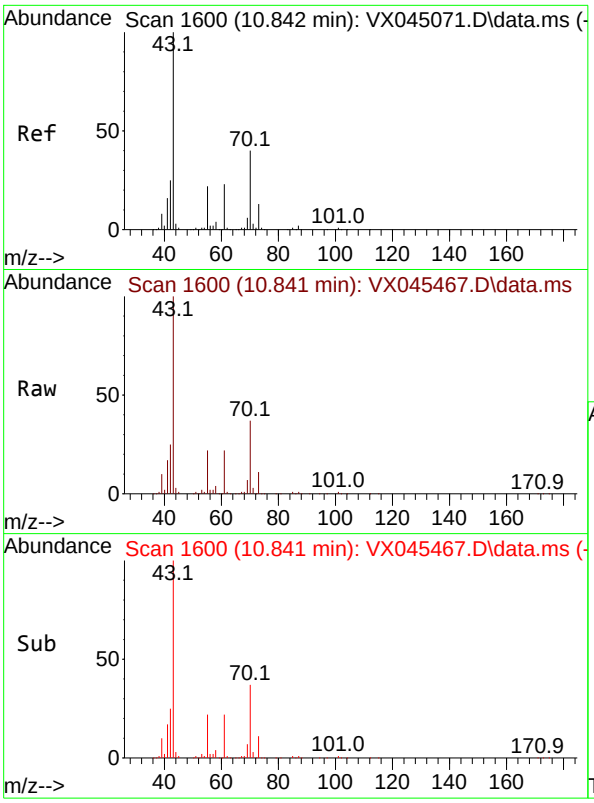


#73
Isopropylbenzene
Concen: 51.783 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:105 Resp: 237533

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

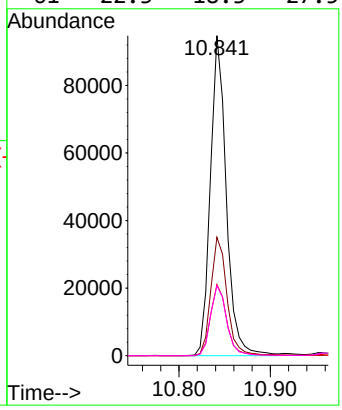




#74
N-amyl acetate
Concen: 53.205 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 11452

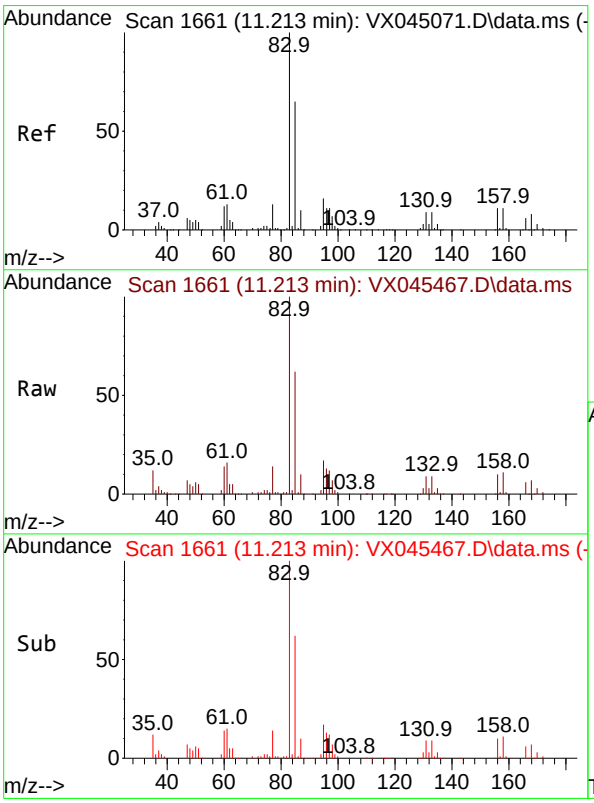
Ion	Ratio	Lower	Upper
43	100		
70	38.0	31.8	47.6
55	22.9	18.3	27.5
61	22.3	18.3	27.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

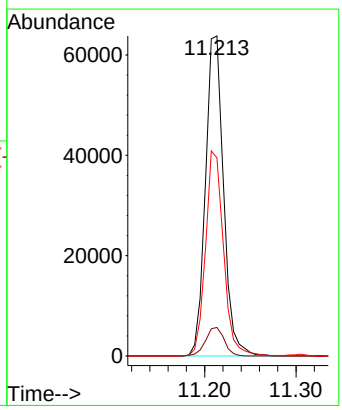
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

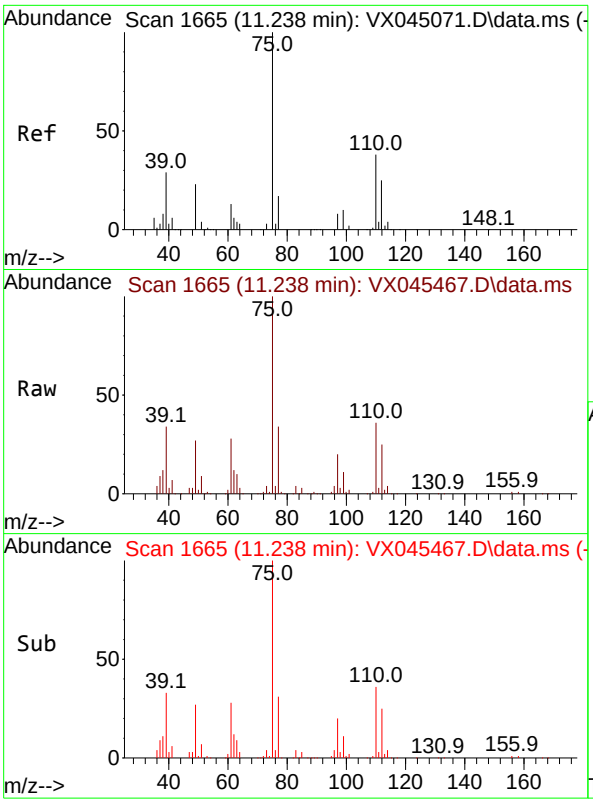


#75
1,1,2,2-Tetrachloroethane
Concen: 51.994 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 83 Resp: 87521

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	63.7	31.7	95.1

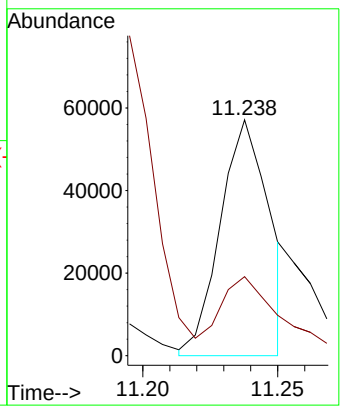




#76
1,2,3-Trichloropropane
Concen: 52.648 ug/l m
RT: 11.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 7201

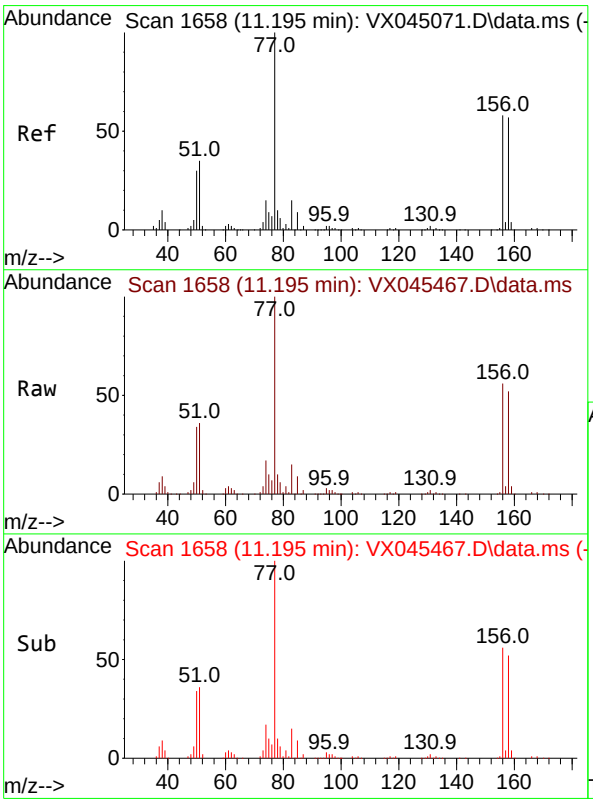
Ion	Ratio	Lower	Upper
75	100		
77	42.6	20.7	62.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

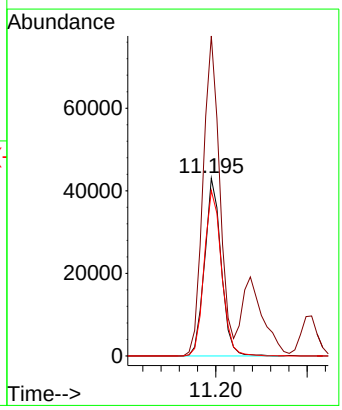
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

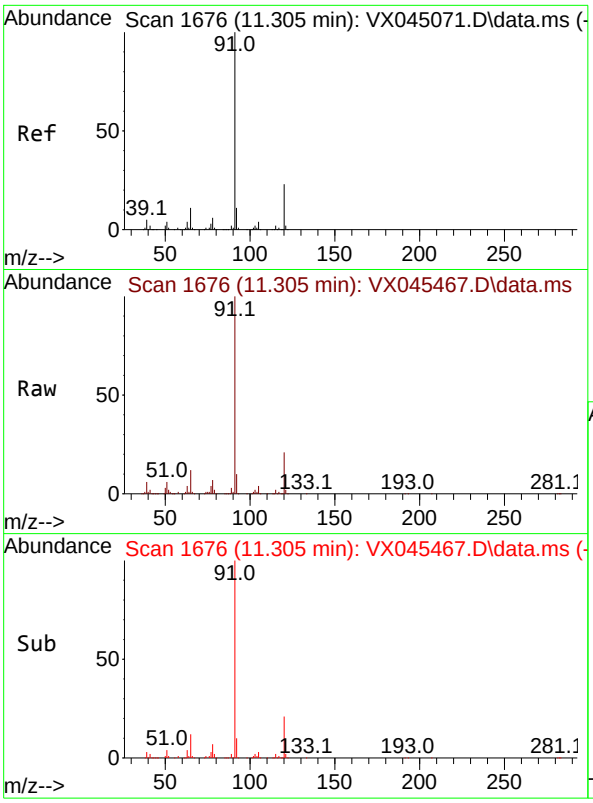


#77
Bromobenzene
Concen: 49.767 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:156 Resp: 53862

Ion	Ratio	Lower	Upper
156	100		
77	181.9	85.8	257.4
158	97.7	48.4	145.2





#78
n-propylbenzene
Concen: 52.890 ug/l
RT: 11.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

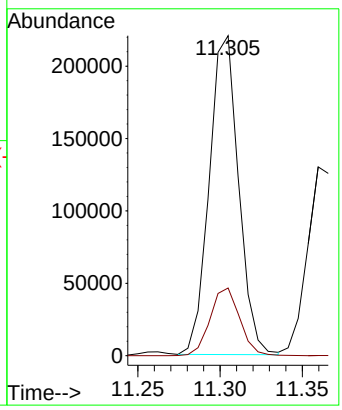
Tgt Ion: 91 Resp: 27406

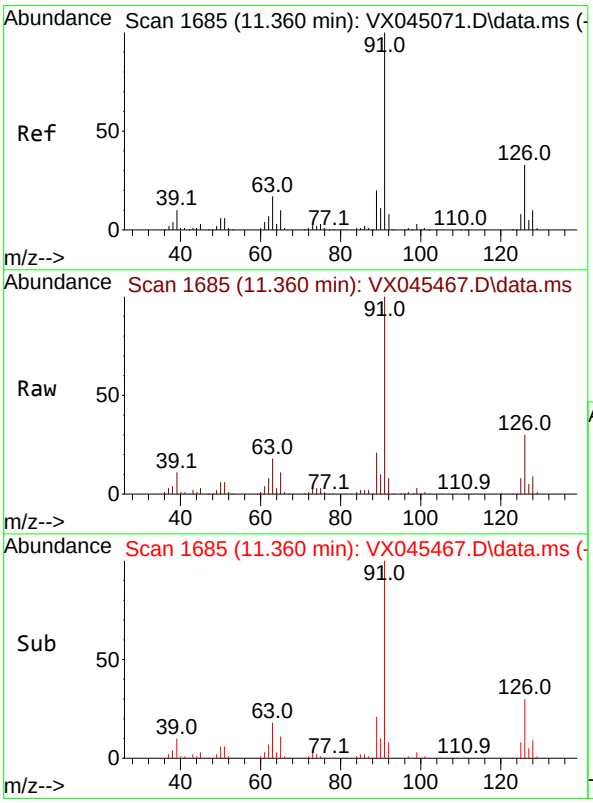
Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

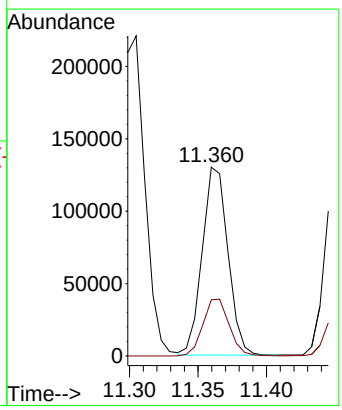


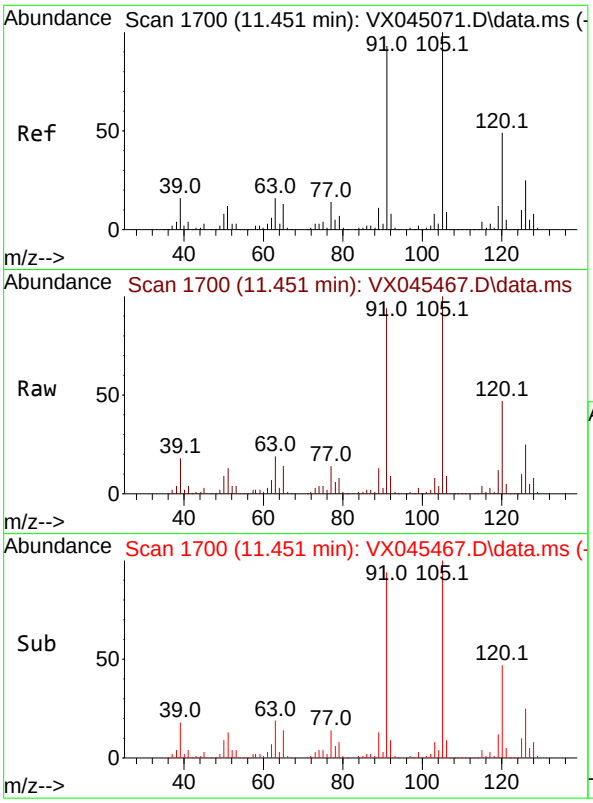


#79
2-Chlorotoluene
Concen: 51.404 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 91 Resp: 169636

Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.4	49.4

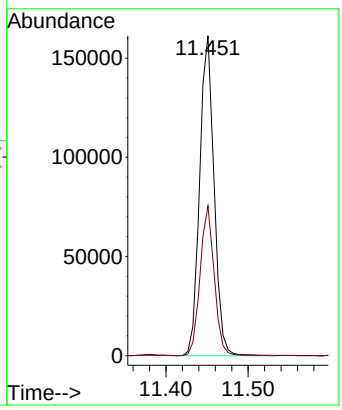




#80
1,3,5-Trimethylbenzene
Concen: 52.996 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:105 Resp: 19656

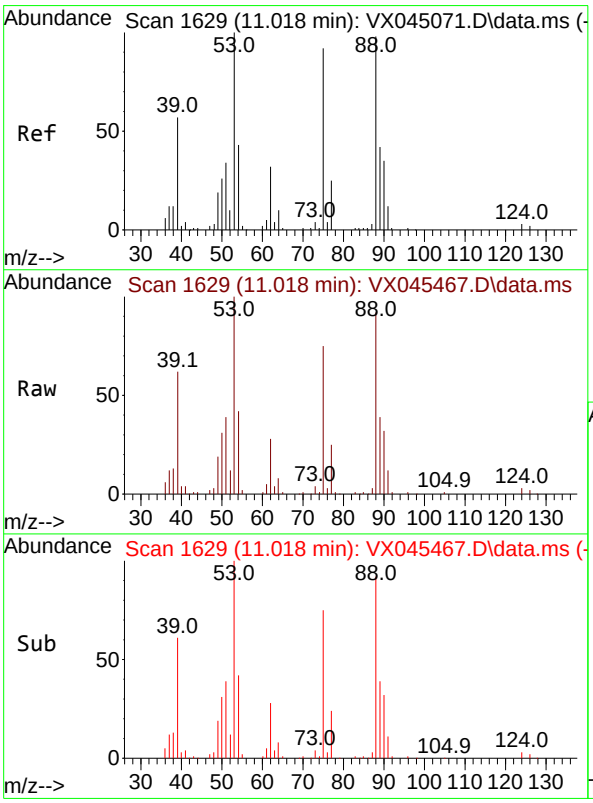
Ion	Ratio	Lower	Upper
105	100		
120	45.9	24.1	72.2



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

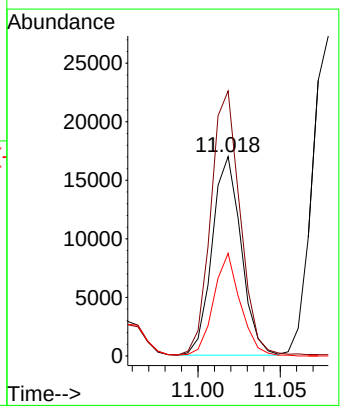
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

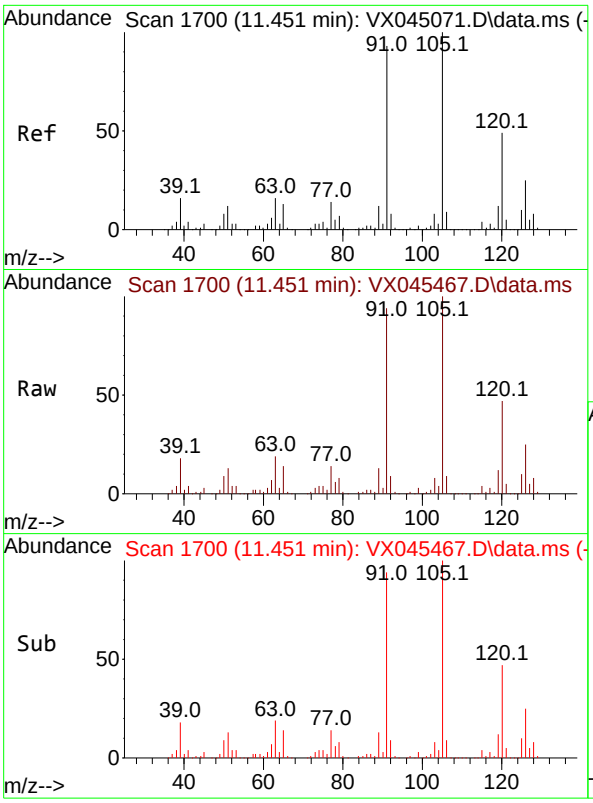


#81
trans-1,4-Dichloro-2-butene
Concen: 52.194 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 20862

Ion	Ratio	Lower	Upper
75	100		
53	136.2	88.5	132.7#
89	47.8	36.2	54.4

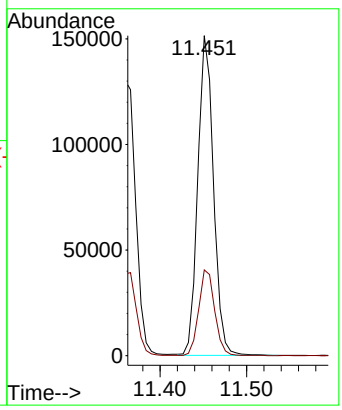




#82
4-Chlorotoluene
Concen: 52.974 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 91 Resp: 19052

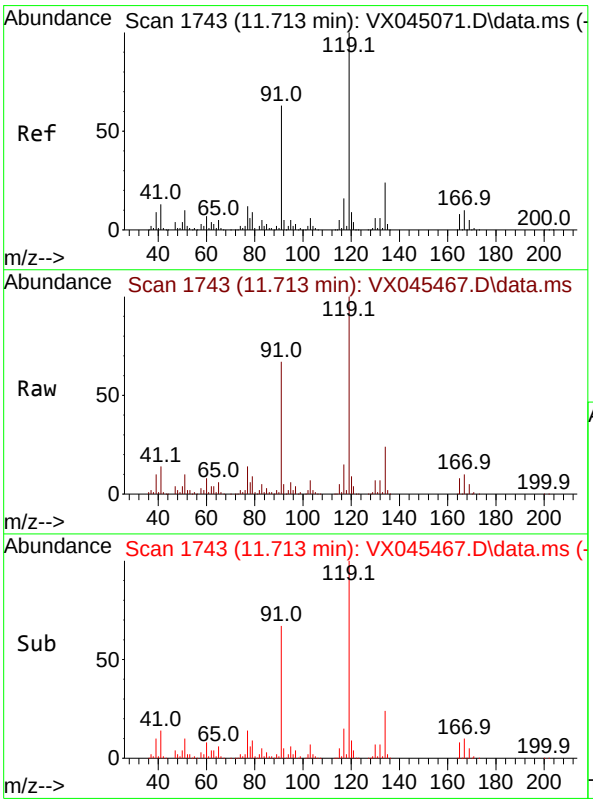
Ion	Ratio	Lower	Upper
91	100		
126	27.5	14.1	42.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

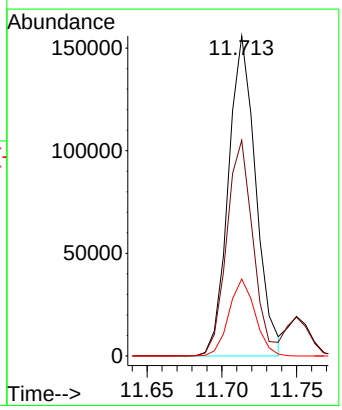
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

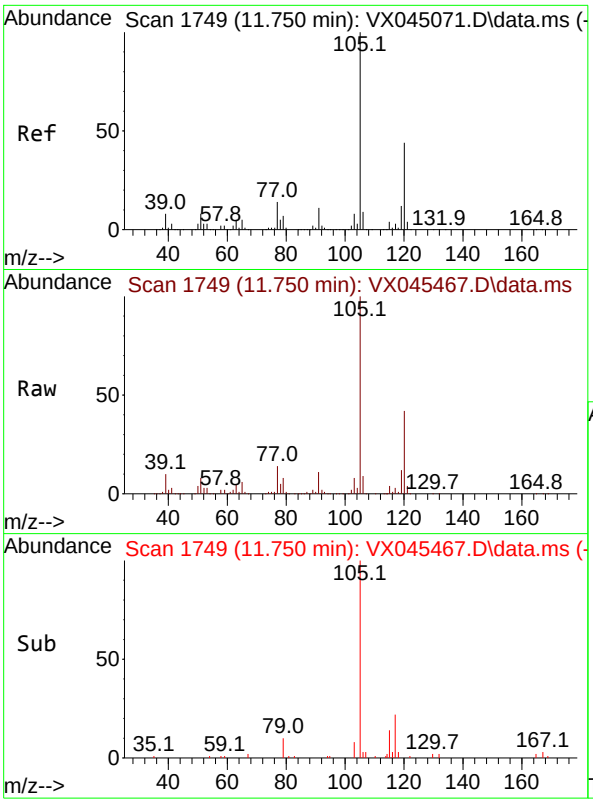


#83
tert-Butylbenzene
Concen: 52.050 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:119 Resp: 198359

Ion	Ratio	Lower	Upper
119	100		
91	65.1	30.7	92.1
134	23.0	11.7	35.0





#84
1,2,4-Trimethylbenzene
Concen: 53.078 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

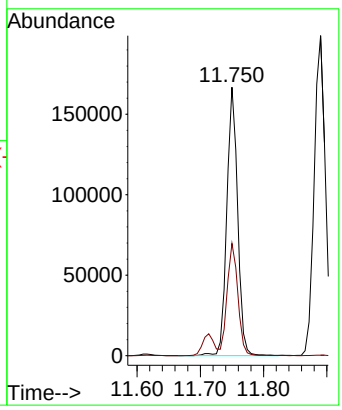
Tgt Ion:105 Resp: 19808

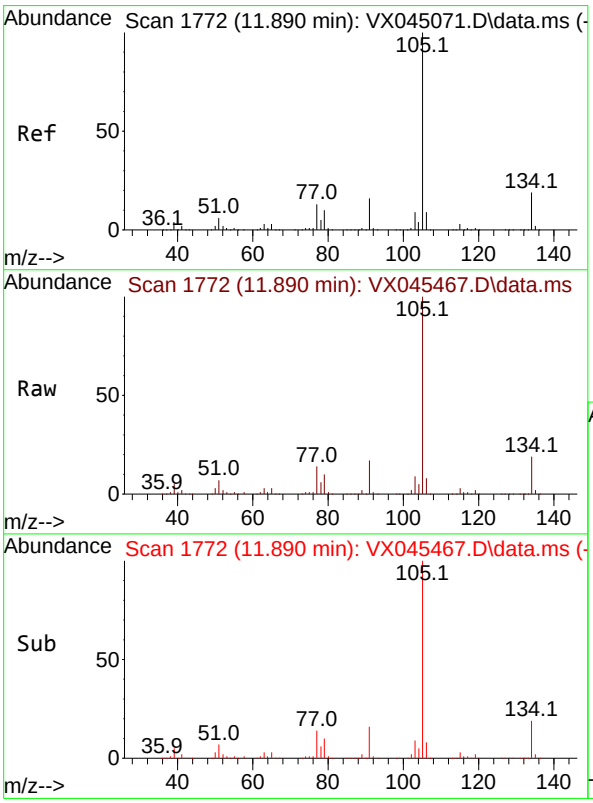
Ion	Ratio	Lower	Upper
105	100		
120	41.5	22.1	66.1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

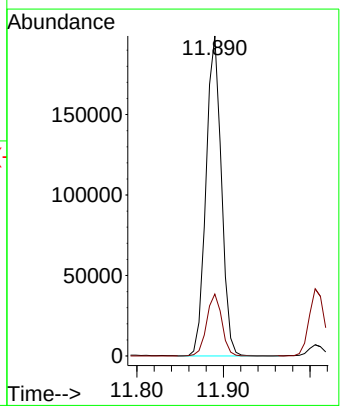


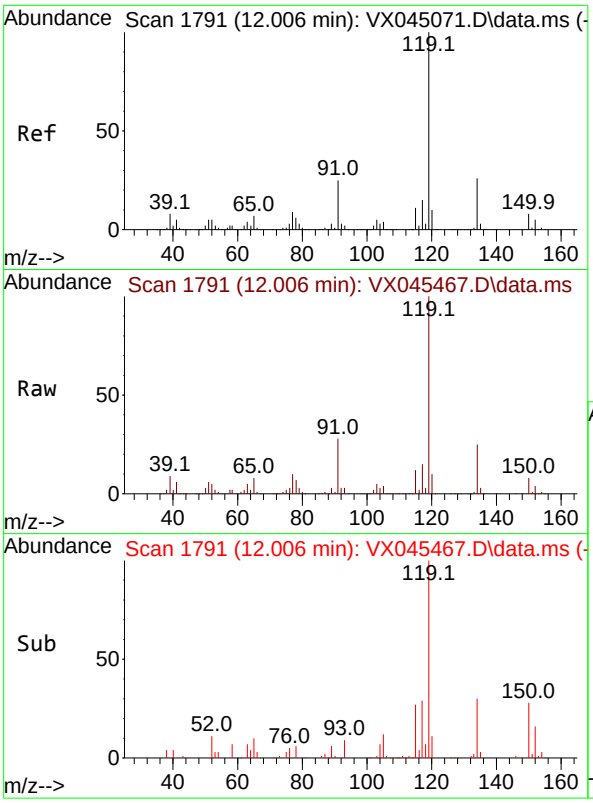


#85
sec-Butylbenzene
Concen: 53.627 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:105 Resp: 244804

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4





#86
p-Isopropyltoluene
Concen: 53.497 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

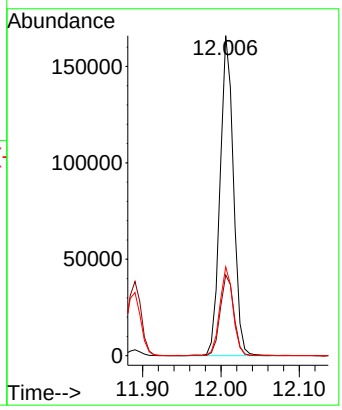
Tgt Ion:119 Resp: 19735

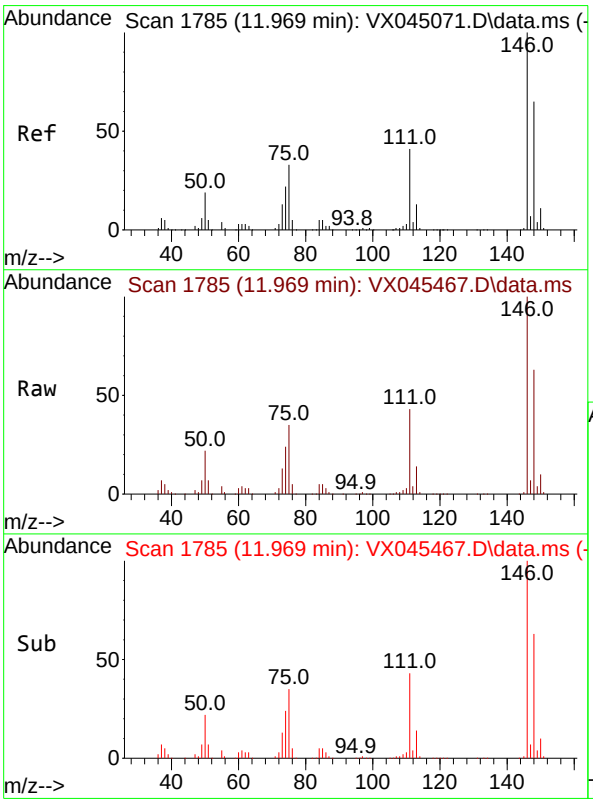
Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.6
91	27.4	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

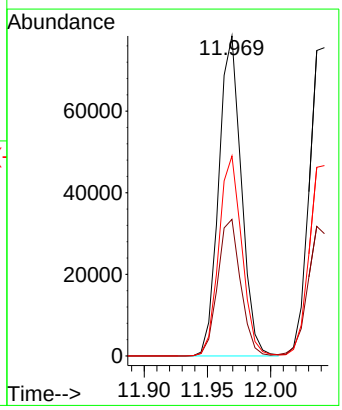


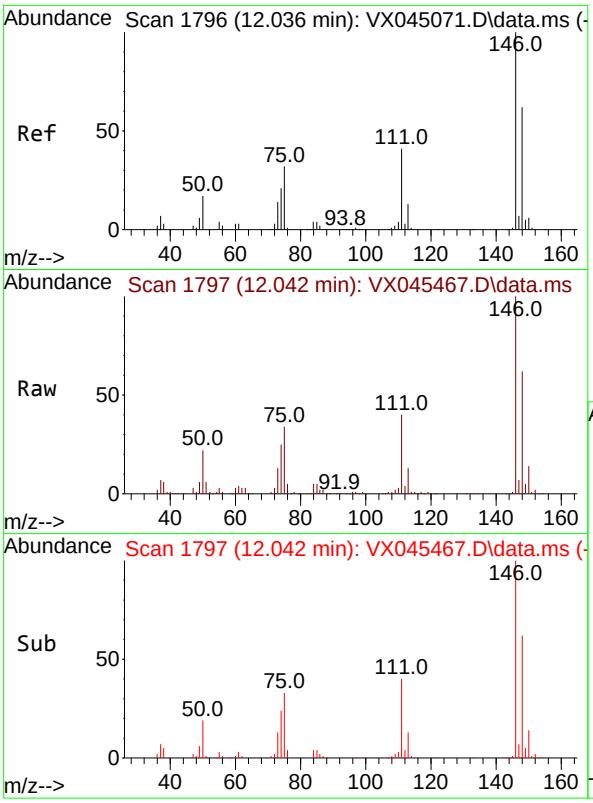


#87
1,3-Dichlorobenzene
Concen: 50.415 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:146 Resp: 97338

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.1	63.4
148	63.5	31.9	95.7

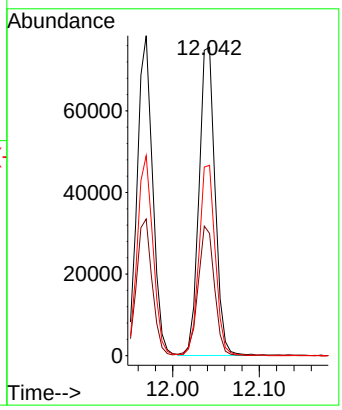




#88
1,4-Dichlorobenzene
Concen: 49.981 ug/l
RT: 12.042 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:146 Resp: 9763

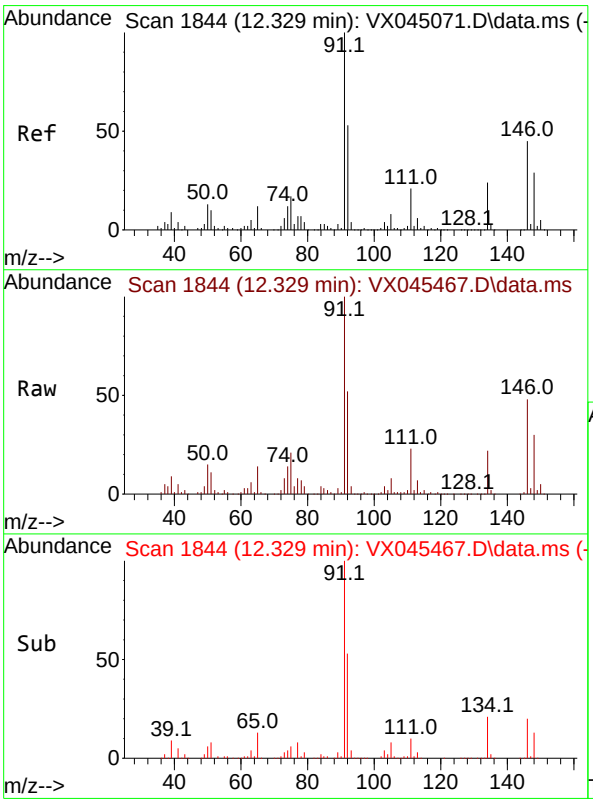
Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.2	60.5
148	62.6	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations APPROVED

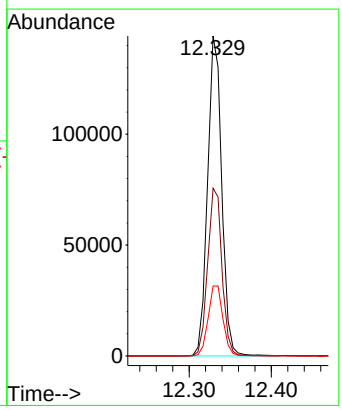
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

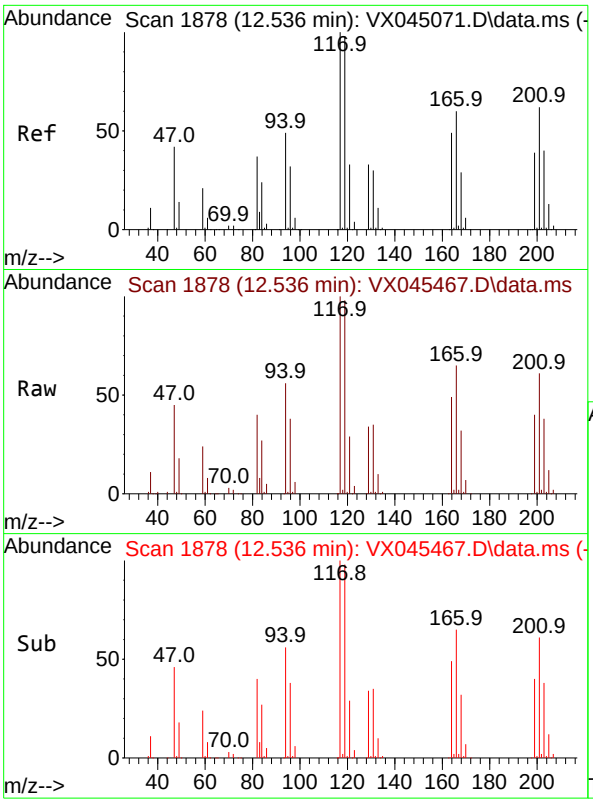


#89
n-Butylbenzene
Concen: 54.229 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 91 Resp: 172306

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.7	80.0
134	23.0	12.2	36.6

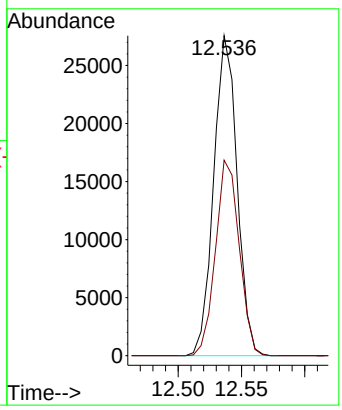




#90
Hexachloroethane
Concen: 52.984 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:117 Resp: 3535

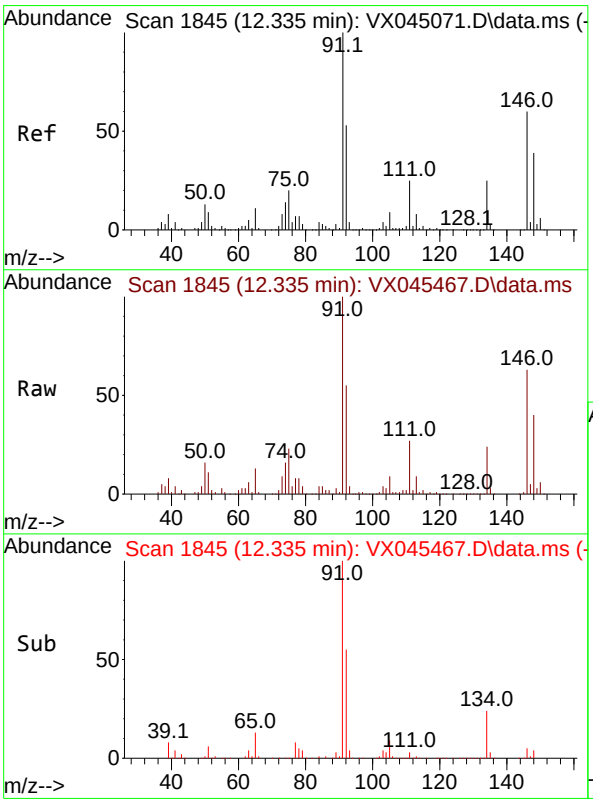
Ion	Ratio	Lower	Upper
117	100		
201	62.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

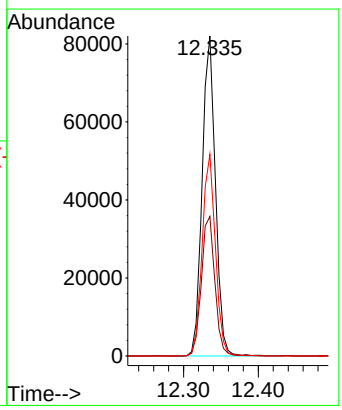
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

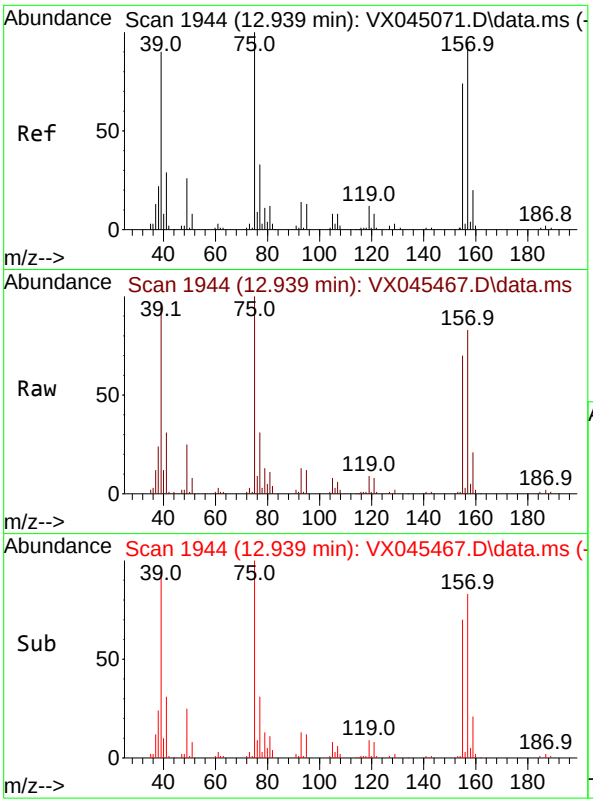


#91
1,2-Dichlorobenzene
Concen: 52.253 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:146 Resp: 101203

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.6	65.0
148	63.0	31.9	95.9

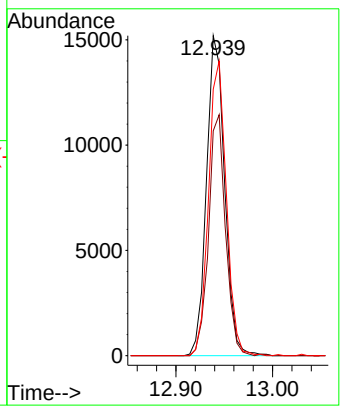




#92
1,2-Dibromo-3-Chloropropane
Concen: 60.728 ug/l
RT: 12.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 1991

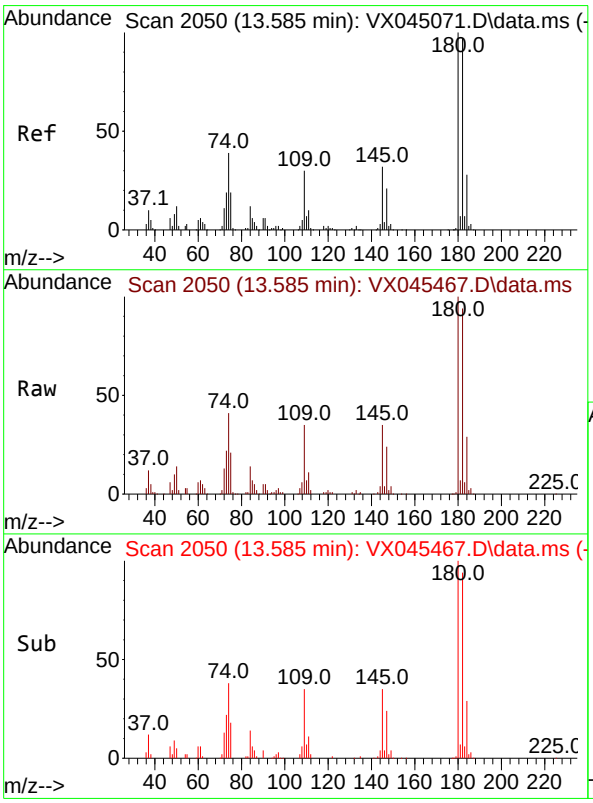
Ion	Ratio	Lower	Upper
75	100		
155	70.2	39.6	118.7
157	90.0	51.1	153.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

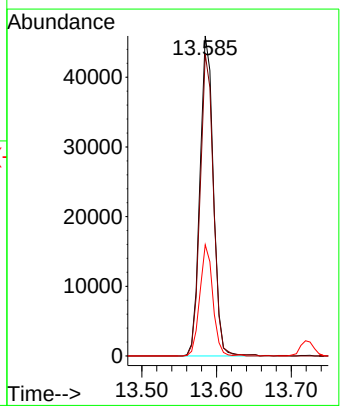
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

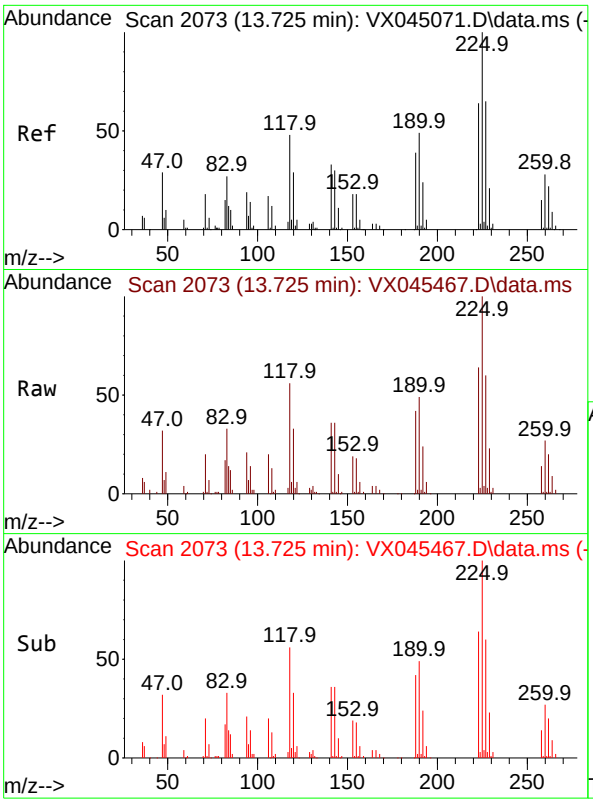


#93
1,2,4-Trichlorobenzene
Concen: 51.846 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:180 Resp: 57177

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	141.9
145	33.8	16.3	48.9

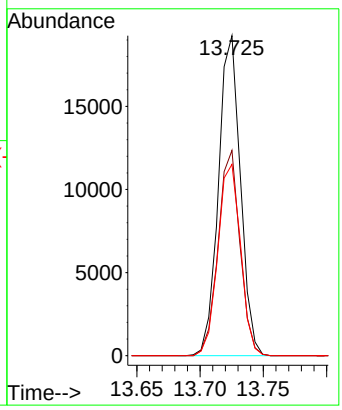




#94
Hexachlorobutadiene
Concen: 51.276 ug/l
RT: 13.725 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:225 Resp: 2318

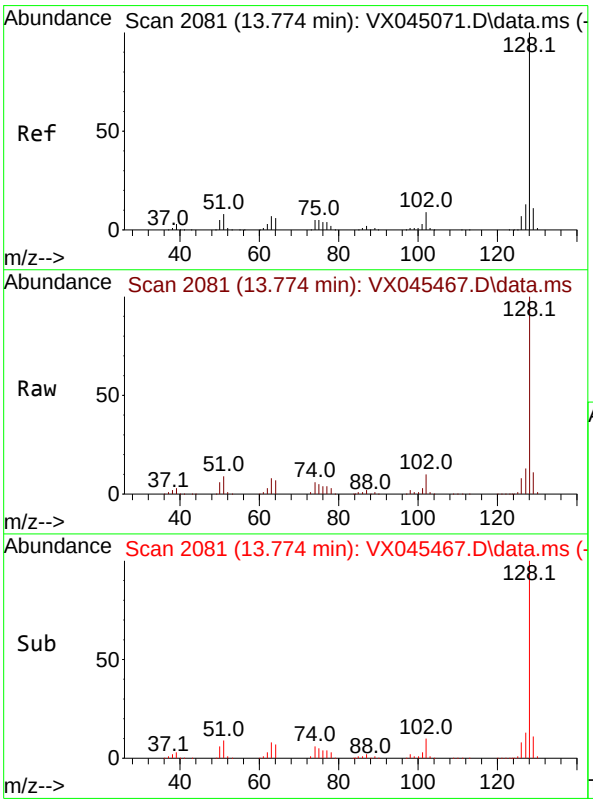
Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.9	95.7
227	61.9	31.4	94.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

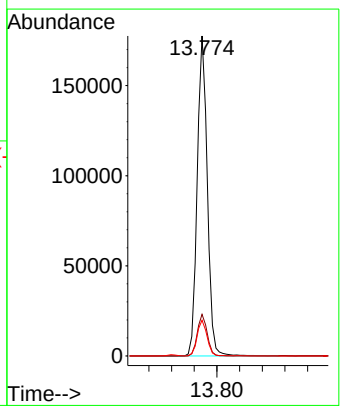
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

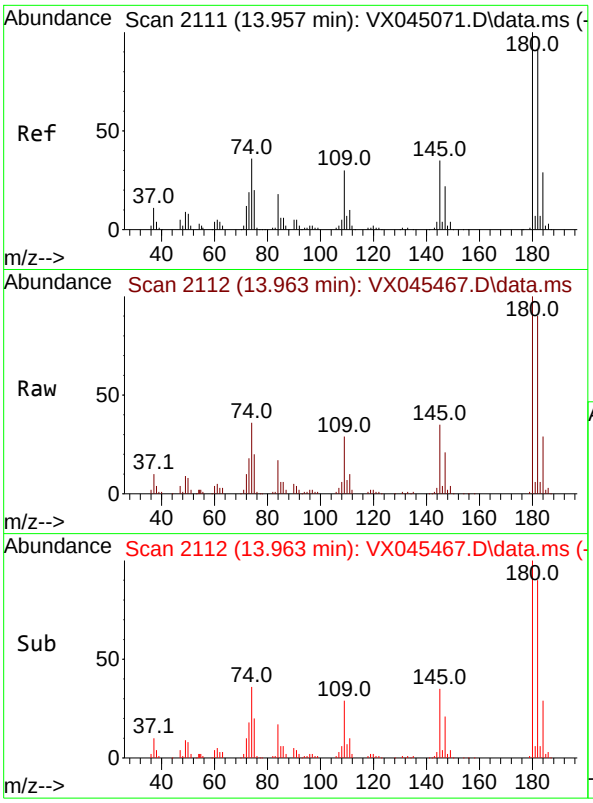


#95
Naphthalene
Concen: 51.735 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:128 Resp: 219209

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	11.0	8.7	13.1

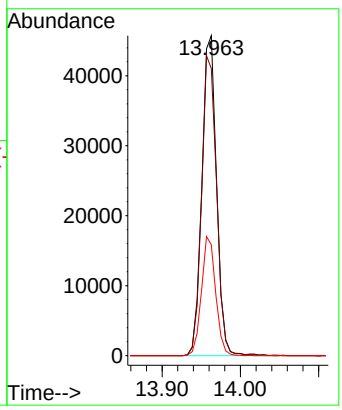




#96
1,2,3-Trichlorobenzene
Concen: 51.113 ug/l
RT: 13.963 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:180 Resp: 5946

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.5	142.6
145	36.0	17.0	50.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320MS	SDG No.:	Q1629
Lab Sample ID:	Q1629-15MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045462.D	1		03/26/25 12:09	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	61.2		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	50.8		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	48.8		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	54.3		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	54.0		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	53.8		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	59.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	52.8		0.23	0.75	1.00	ug/L
67-64-1	Acetone	260		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	48.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	51.9		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	48.3		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	50.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	52.9		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	52.3		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	53.6		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	270		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	54.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	51.1		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	49.7		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	53.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	56.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	57.5		0.16	0.50	1.00	ug/L
71-43-2	Benzene	51.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	57.6		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	49.6		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	50.6		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	53.9		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.68	2.50	5.00	ug/L
108-88-3	Toluene	52.9		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320MS	SDG No.:	Q1629
Lab Sample ID:	Q1629-15MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045462.D	1		03/26/25 12:09	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	57.5		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.7		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	51.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	280		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	54.4		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	53.2		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	53.2		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	52.9		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	54.9		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	54.1		0.12	0.50	1.00	ug/L
100-42-5	Styrene	56.1		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	54.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	55.1		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.8		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	52.0		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	51.2		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	52.2		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	58.9		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	51.7		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	51.3		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.0		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	47.4		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	81800	5.544				
540-36-3	1,4-Difluorobenzene	149000	6.757				
3114-55-4	Chlorobenzene-d5	129000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	58200	12.024				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320MS	SDG No.:	Q1629
Lab Sample ID:	Q1629-15MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045462.D	1		03/26/25 12:09	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations APPROVED
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	81846	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	149200	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	128995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	58223	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	70333	54.024	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.040%			
35) Dibromofluoromethane	5.379	113	51057	51.177	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.360%			
50) Toluene-d8	8.647	98	171361	47.378	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.760%			
62) 4-Bromofluorobenzene	11.079	95	64151	53.525	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	63039	61.188	ug/l	99
3) Chloromethane	1.307	50	64002	50.763	ug/l	97
4) Vinyl Chloride	1.374	62	60997	48.769	ug/l	97
5) Bromomethane	1.593	94	26706	54.316	ug/l	96
6) Chloroethane	1.660	64	31169	54.028	ug/l	97
7) Trichlorofluoromethane	1.867	101	89136	53.834	ug/l	97
8) Diethyl Ether	2.130	74	28789	44.453	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	56095	58.969	ug/l	99
10) Methyl Iodide	2.441	142	67036	56.391	ug/l	93
11) Tert butyl alcohol	2.983	59	52681	213.632	ug/l	97
12) 1,1-Dichloroethene	2.306	96	53128	52.826	ug/l	95
13) Acrolein	2.239	56	67779	237.772	ug/l	100
14) Allyl chloride	2.654	41	98242	54.877	ug/l	94
15) Acrylonitrile	3.062	53	170621	258.161	ug/l	99
16) Acetone	2.386	43	158081	261.709	ug/l	97
17) Carbon Disulfide	2.502	76	130184	48.600	ug/l	98
18) Methyl Acetate	2.703	43	70244	48.341	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	174983	51.860	ug/l	97
20) Methylene Chloride	2.782	84	60344	50.433	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	52538	52.878	ug/l	97
22) Diisopropyl ether	3.763	45	189973	52.178	ug/l	96
23) Vinyl Acetate	3.721	43	859885	283.012	ug/l	99
24) 1,1-Dichloroethane	3.605	63	106646	52.266	ug/l	99
25) 2-Butanone	4.556	43	245592	270.113	ug/l	97
26) 2,2-Dichloropropane	4.471	77	75229	78.603	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	62696	51.117	ug/l	90
28) Bromochloromethane	4.891	49	48323	49.686	ug/l	99
29) Tetrahydrofuran	5.007	42	156166	255.764	ug/l	100
30) Chloroform	5.086	83	109294	53.908	ug/l	99
31) Cyclohexane	5.464	56	95021	53.647	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	91708	56.006	ug/l	98
36) 1,1-Dichloropropene	5.684	75	72584	53.051	ug/l	99
37) Ethyl Acetate	4.715	43	92982	52.741	ug/l	98
38) Carbon Tetrachloride	5.672	117	76313	54.939	ug/l	99
39) Methylcyclohexane	7.373	83	94279	57.508	ug/l	96
40) Benzene	6.031	78	221759	51.328	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations APPROVED
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	51231	53.741	ug/l		98
42) 1,2-Dichloroethane	6.080	62	89573	57.574	ug/l		97
43) Isopropyl Acetate	6.342	43	140624	53.941	ug/l		99
44) Trichloroethene	7.117	130	50320	49.602	ug/l		94
45) 1,2-Dichloropropane	7.427	63	56209	50.601	ug/l		98
46) Dibromomethane	7.580	93	42664	54.339	ug/l		96
47) Bromodichloromethane	7.818	83	82942	53.857	ug/l		99
48) Methyl methacrylate	7.690	41	73888	56.494	ug/l		93
49) 1,4-Dioxane	7.659	88	27605	1000.591	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	485045	277.099	ug/l		99
52) Toluene	8.714	92	134202	52.942	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	74011	57.485	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	83643	55.713	ug/l	#	89
55) 1,1,2-Trichloroethane	9.147	97	54177	51.916	ug/l		95
56) Ethyl methacrylate	9.116	69	86460	54.505	ug/l		91
57) 1,3-Dichloropropane	9.305	76	93794	51.936	ug/l		99
59) 2-Hexanone	9.427	43	354561	279.563	ug/l		98
60) Dibromochloromethane	9.519	129	59348	54.391	ug/l		100
61) 1,2-Dibromoethane	9.610	107	55467	53.243	ug/l		99
64) Tetrachloroethene	9.269	164	43935	53.180	ug/l		96
65) Chlorobenzene	10.079	112	144357	52.887	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	48973	53.877	ug/l		97
67) Ethyl Benzene	10.189	91	261313	54.944	ug/l		99
68) m/p-Xylenes	10.299	106	191289	109.870	ug/l		95
69) o-Xylene	10.640	106	94995	54.099	ug/l		97
70) Styrene	10.652	104	159320	56.074	ug/l		98
71) Bromoform	10.799	173	37451	54.637	ug/l	#	97
73) Isopropylbenzene	10.957	105	250437	55.108	ug/l		98
74) N-amyl acetate	10.841	43	119273	55.933	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	84652	50.761	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	70459m	51.994	ug/l		
77) Bromobenzene	11.195	156	55160	51.444	ug/l		93
78) n-propylbenzene	11.305	91	293737	57.219	ug/l		98
79) 2-Chlorotoluene	11.360	91	175537	53.691	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	206424	56.177	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	21420	54.092	ug/l		87
82) 4-Chlorotoluene	11.451	91	200691	56.323	ug/l		99
83) tert-Butylbenzene	11.713	119	202565	53.652	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	206804	55.934	ug/l		99
85) sec-Butylbenzene	11.890	105	254610	56.298	ug/l		99
86) p-Isopropyltoluene	12.006	119	208162	56.955	ug/l		97
87) 1,3-Dichlorobenzene	11.969	146	99559	52.049	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	99011	51.163	ug/l		97
89) n-Butylbenzene	12.329	91	186985	59.401	ug/l		99
90) Hexachloroethane	12.536	117	36501	55.214	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	100191	52.215	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19120	58.851	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	56512	51.723	ug/l		99
94) Hexachlorobutadiene	13.725	225	24074	53.744	ug/l		99
95) Naphthalene	13.774	128	211704	50.432	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	59088	51.264	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

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

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

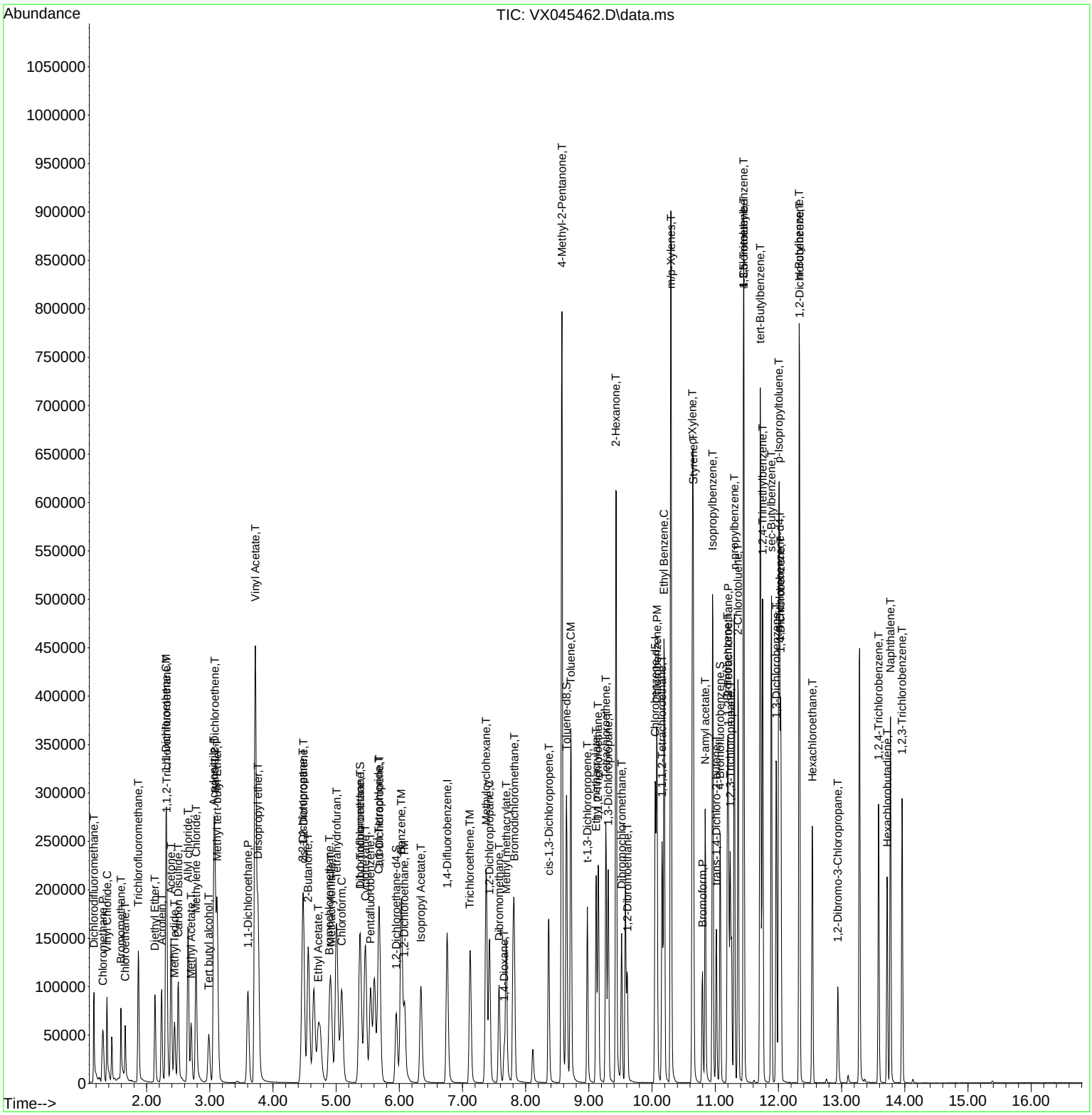
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

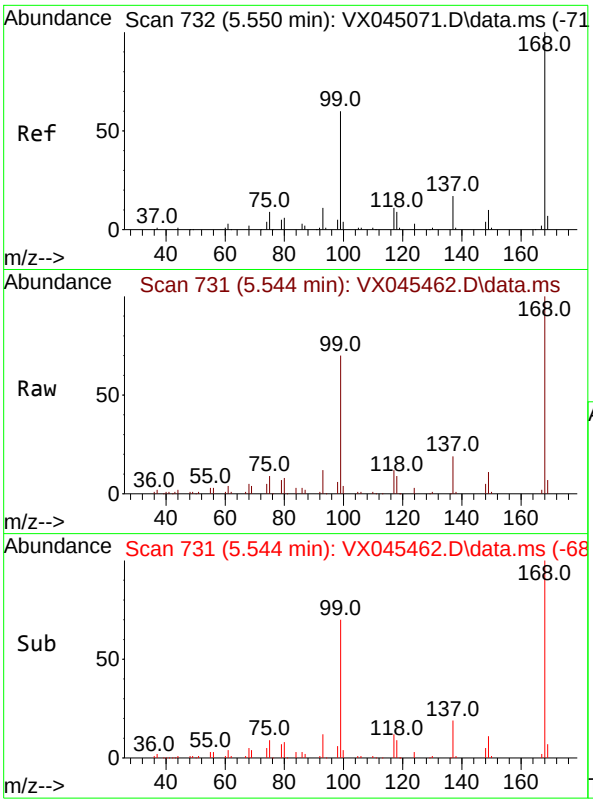
Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

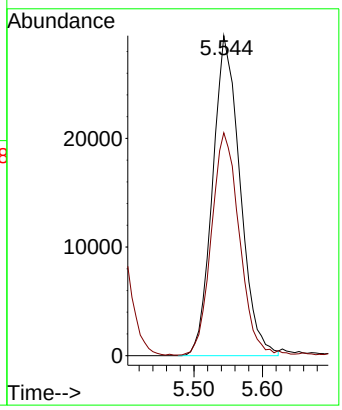




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:168 Resp: 8184

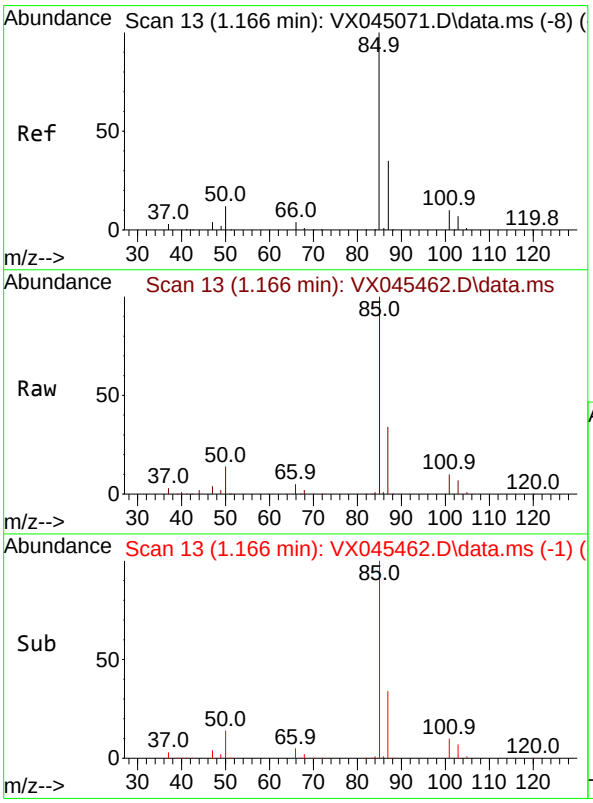
Ion	Ratio	Lower	Upper
168	100		
99	69.4	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

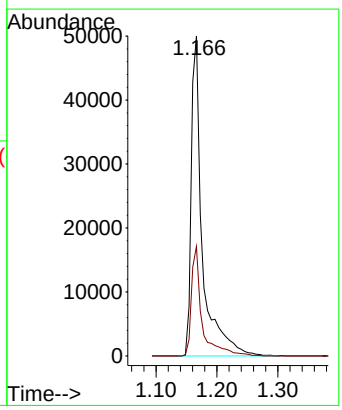
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

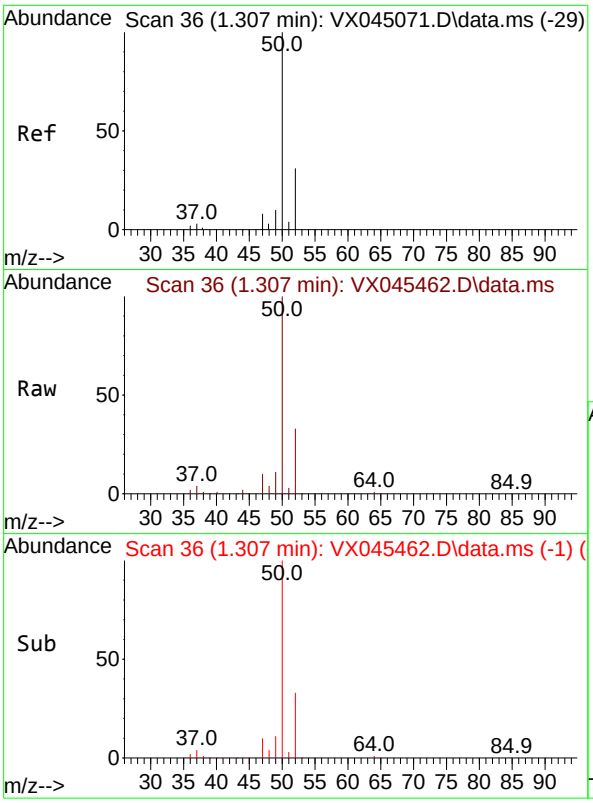


#2
Dichlorodifluoromethane
Concen: 61.188 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 85 Resp: 63039

Ion	Ratio	Lower	Upper
85	100		
87	34.2	17.4	52.3





#3
Chloromethane
Concen: 50.763 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

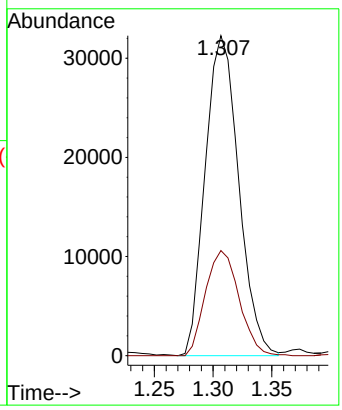
Tgt Ion: 50 Resp: 6400

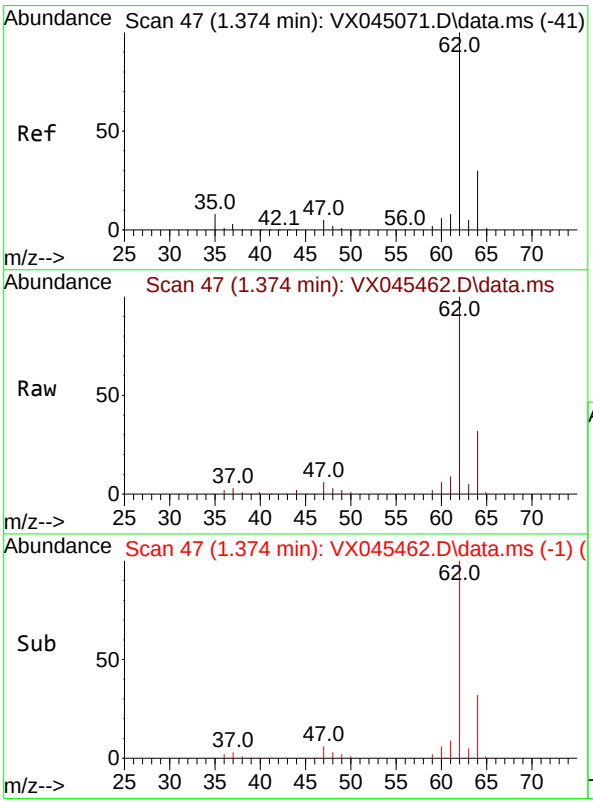
Ion	Ratio	Lower	Upper
50	100		
52	32.8	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

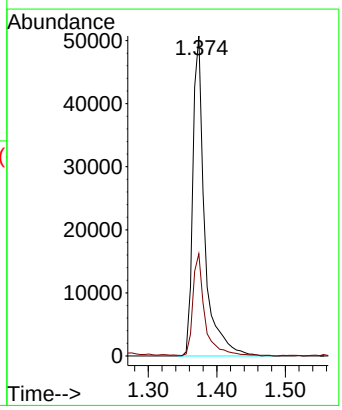


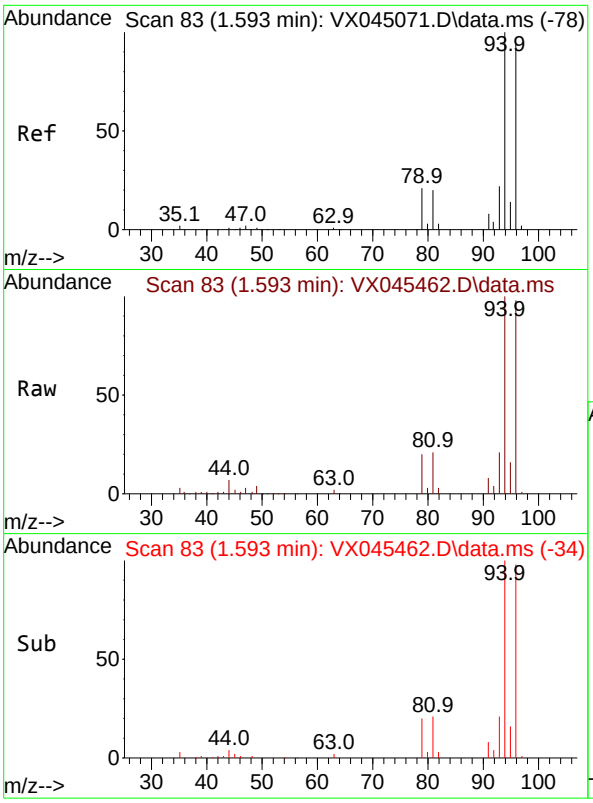


#4
Vinyl Chloride
Concen: 48.769 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 62 Resp: 60997

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.3	36.5

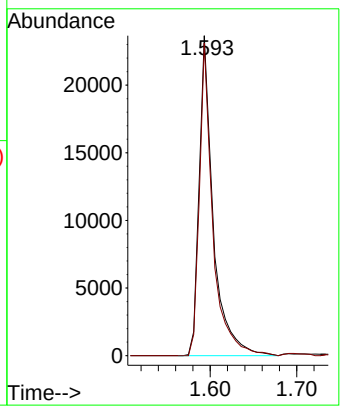




#5
Bromomethane
Concen: 54.316 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 94 Resp: 2670

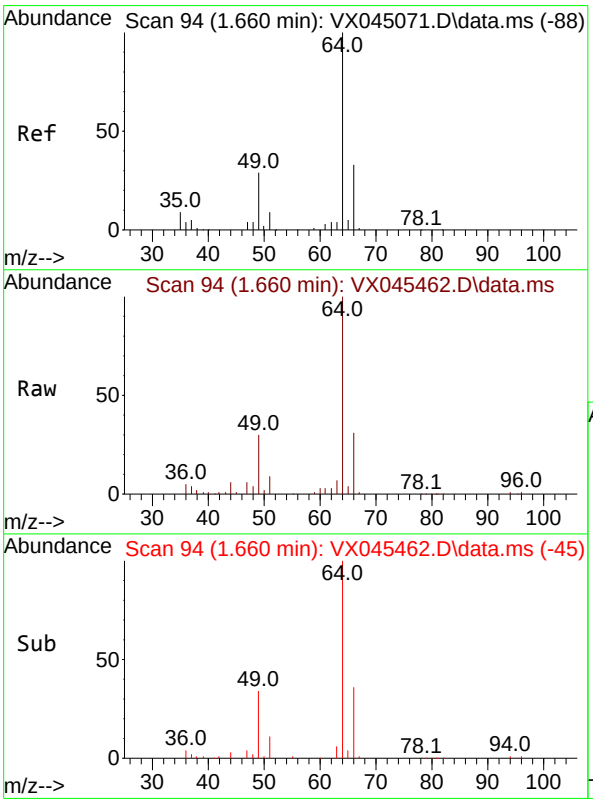
Ion	Ratio	Lower	Upper
94	100		
96	97.7	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

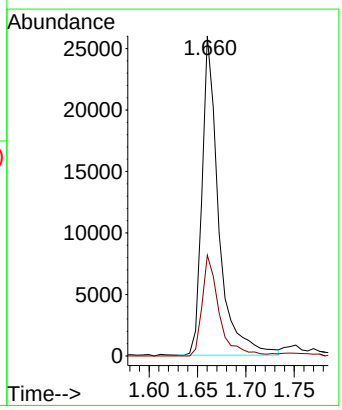
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

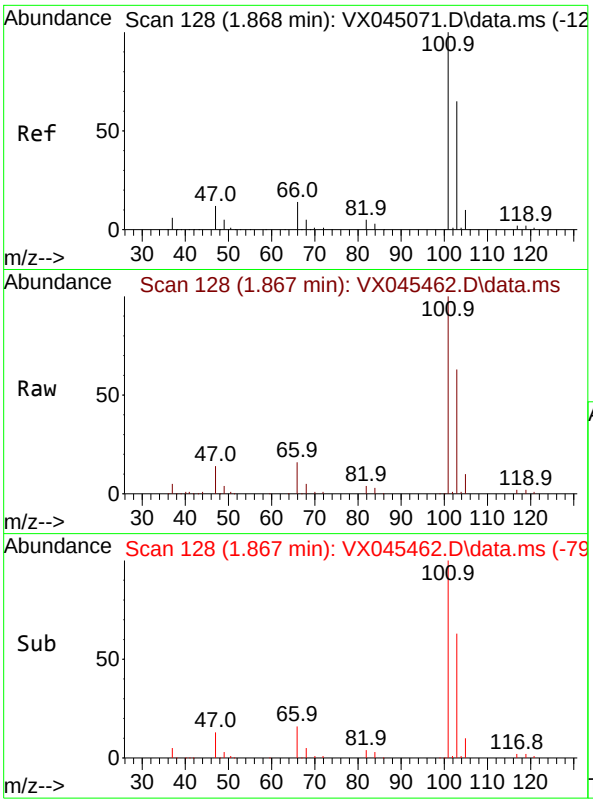


#6
Chloroethane
Concen: 54.028 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 64 Resp: 31169

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.7	40.1





#7
Trichlorofluoromethane
Concen: 53.834 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

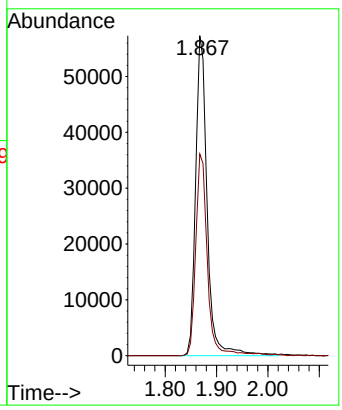
Tgt Ion:101 Resp: 8913

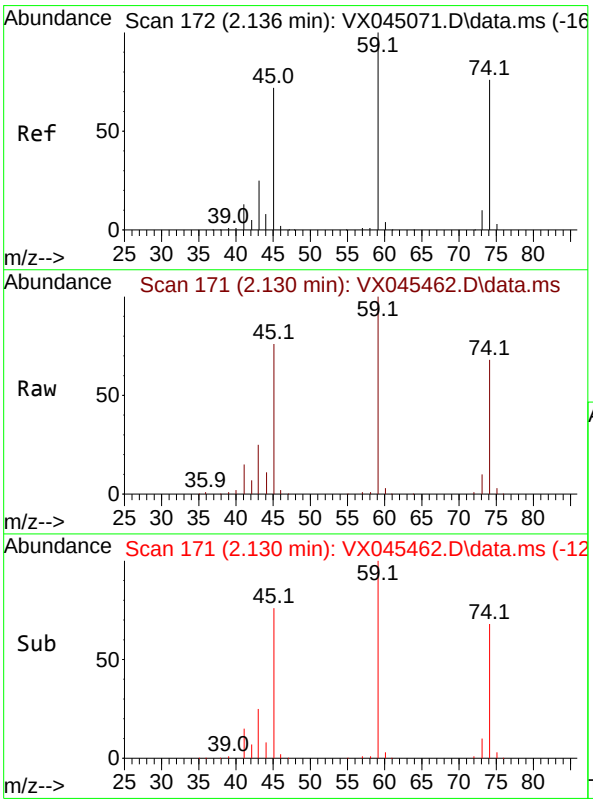
Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

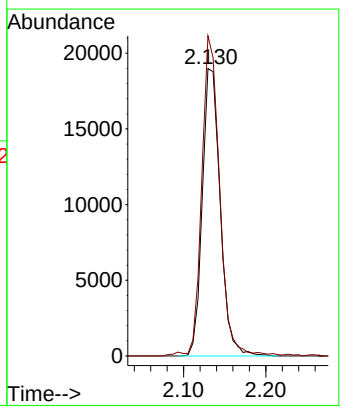


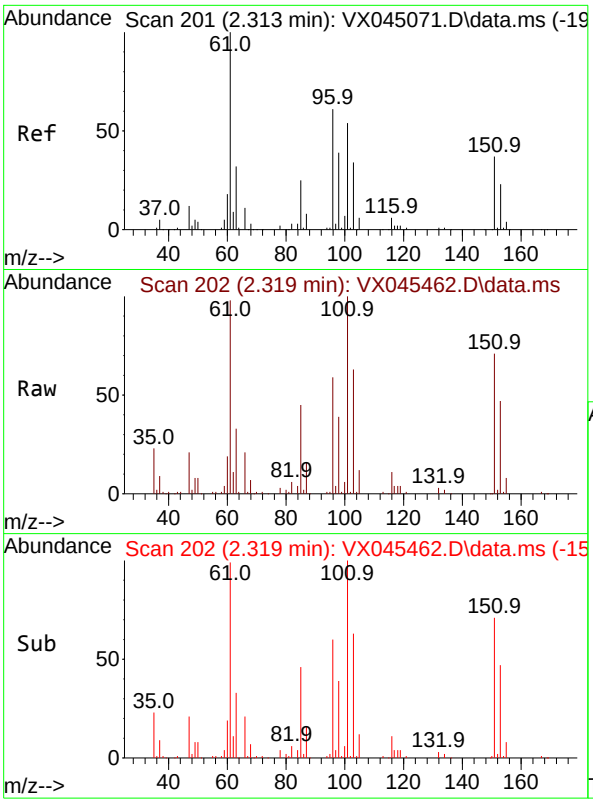


#8
Diethyl Ether
Concen: 44.453 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 74 Resp: 28789

Ion	Ratio	Lower	Upper
74	100		
45	111.2	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.969 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

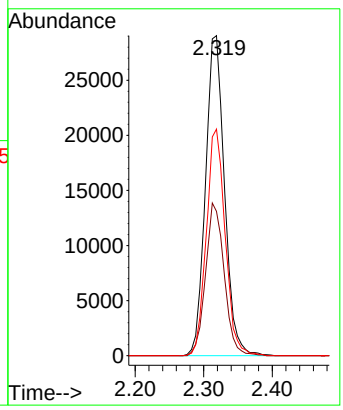
Tgt Ion:101 Resp: 5609

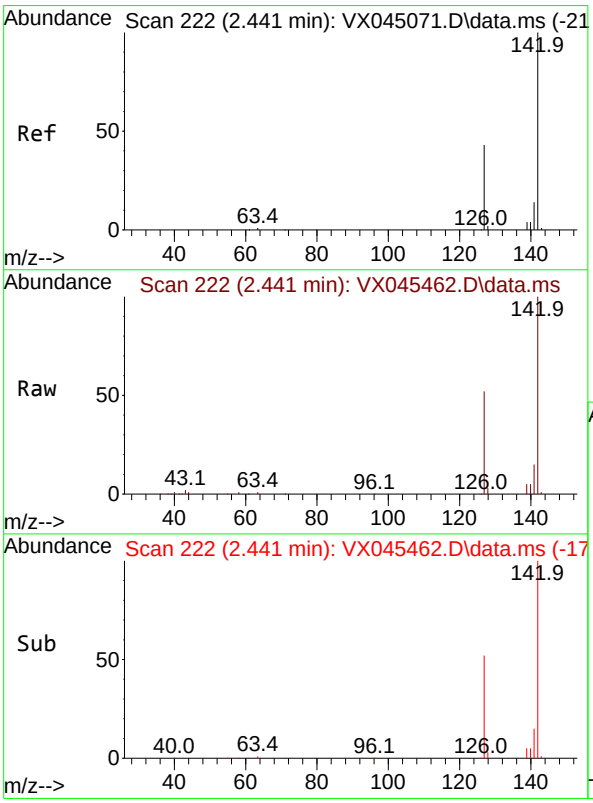
Ion	Ratio	Lower	Upper
101	100		
85	46.7	36.2	54.4
151	70.3	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

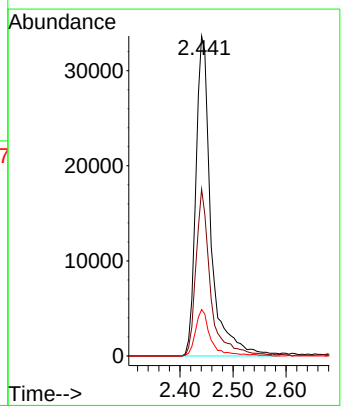


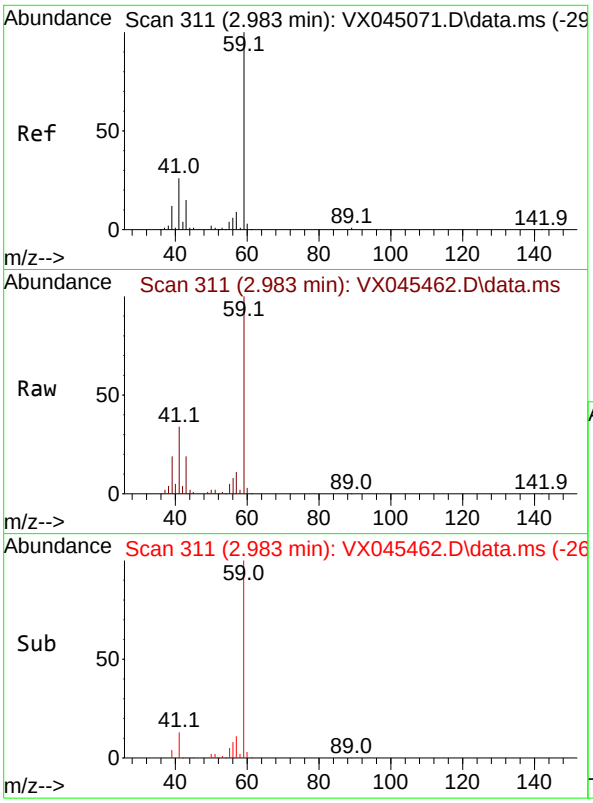


#10
Methyl Iodide
Concen: 56.391 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:142 Resp: 67036

Ion	Ratio	Lower	Upper
142	100		
127	49.9	35.4	53.2
141	14.1	11.6	17.4

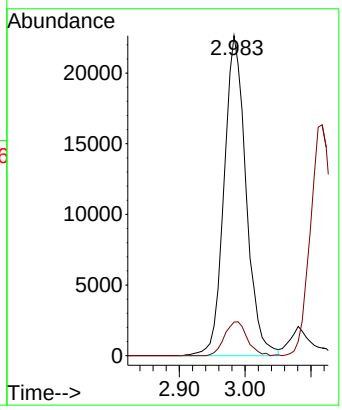




#11
Tert butyl alcohol
Concen: 213.632 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 59 Resp: 5268

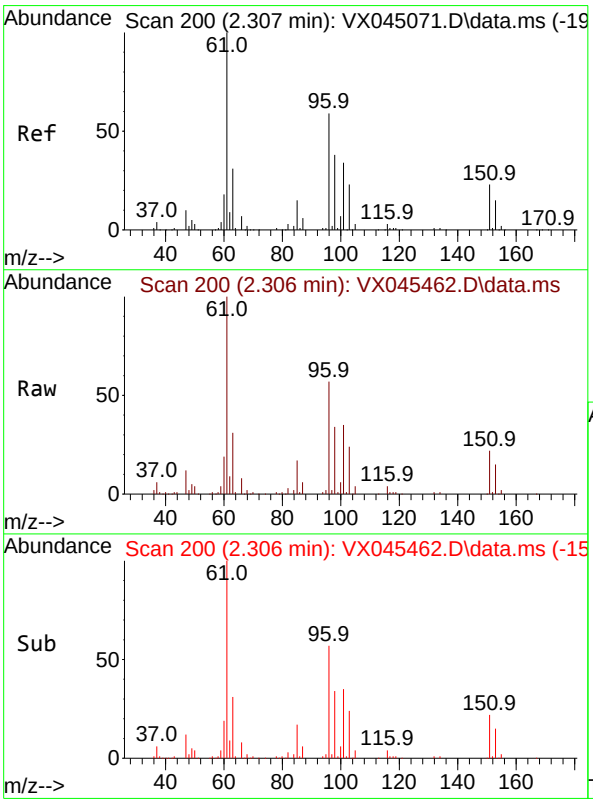
Ion	Ratio	Lower	Upper
59	100		
57	10.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

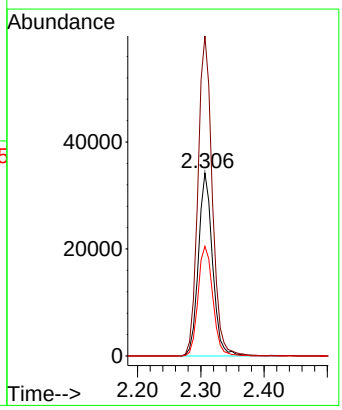
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

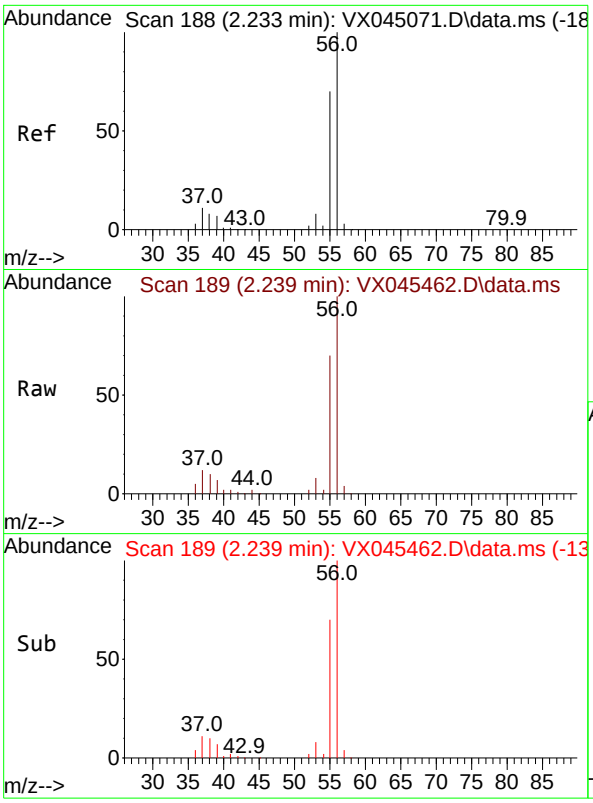


#12
1,1-Dichloroethene
Concen: 52.826 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 96 Resp: 53128

Ion	Ratio	Lower	Upper
96	100		
61	174.8	134.6	202.0
98	59.9	51.0	76.6

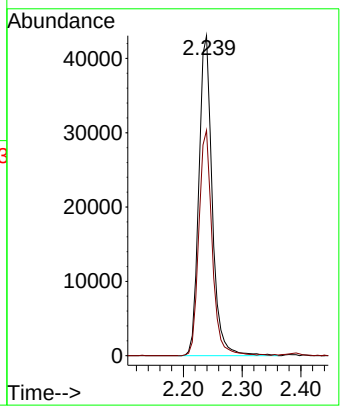




#13
Acrolein
Concen: 237.772 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 56 Resp: 6777

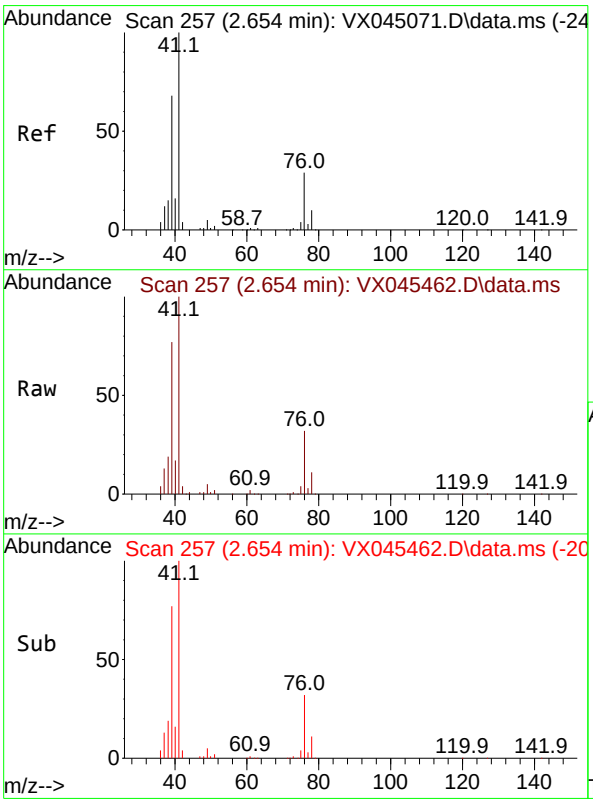
Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

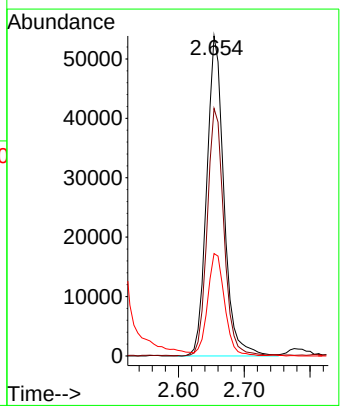
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

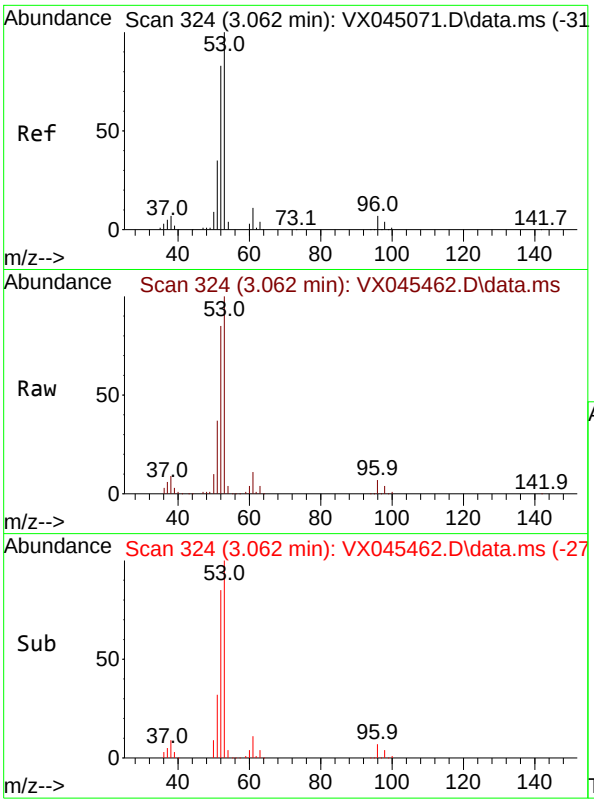


#14
Allyl chloride
Concen: 54.877 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 41 Resp: 98242

Ion	Ratio	Lower	Upper
41	100		
39	74.8	53.8	80.8
76	31.3	25.2	37.8





#15
Acrylonitrile
Concen: 258.161 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

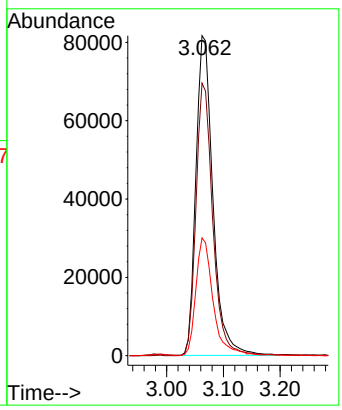
Tgt Ion: 53 Resp: 17062

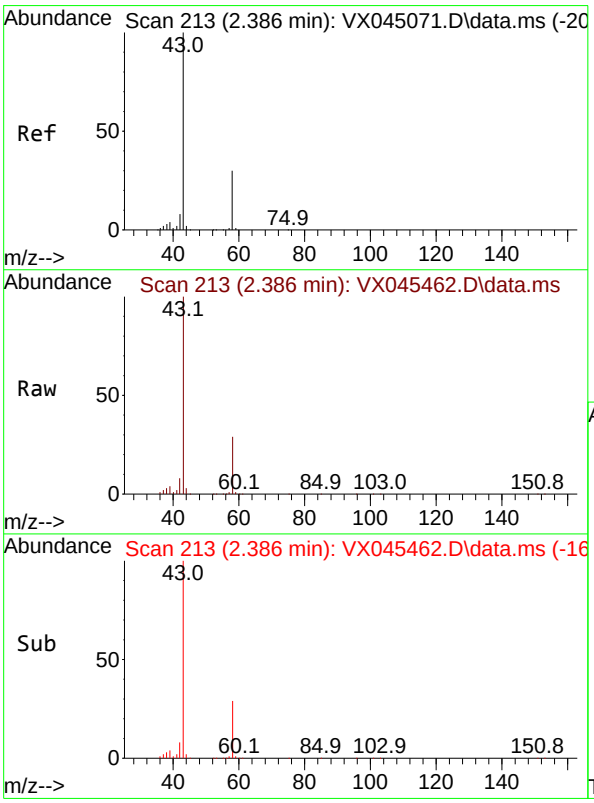
Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.2	99.2
51	36.8	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

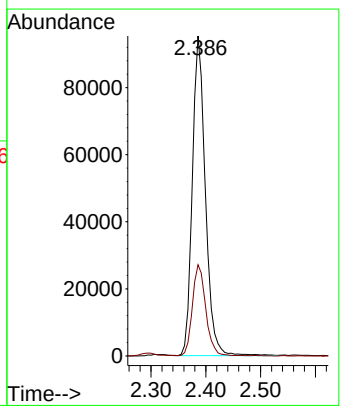


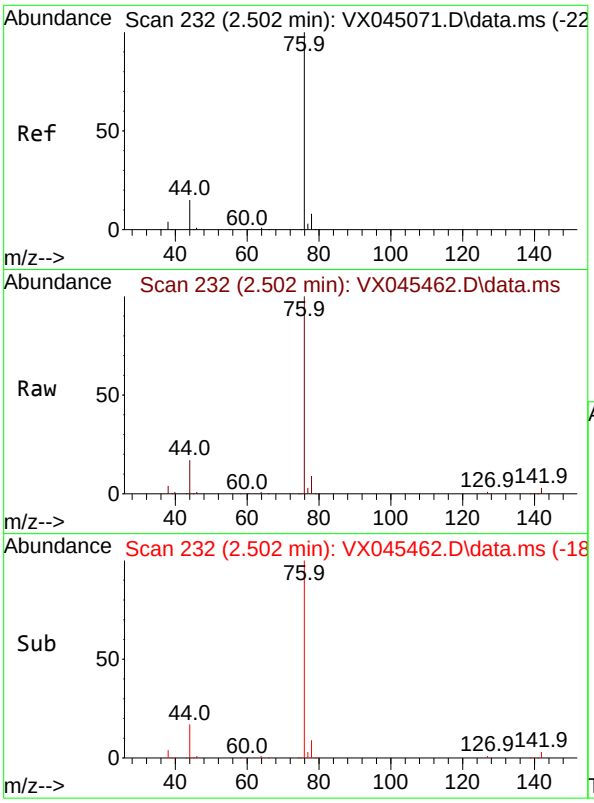


#16
Acetone
Concen: 261.709 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 158081

Ion	Ratio	Lower	Upper
43	100		
58	28.5	24.2	36.4

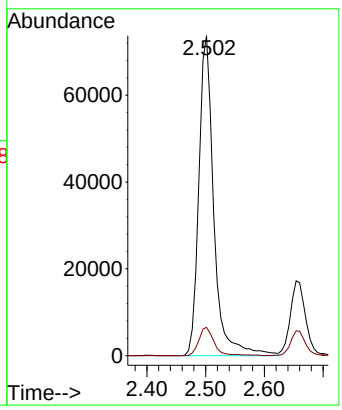




#17
Carbon Disulfide
Concen: 48.600 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 76 Resp: 13018

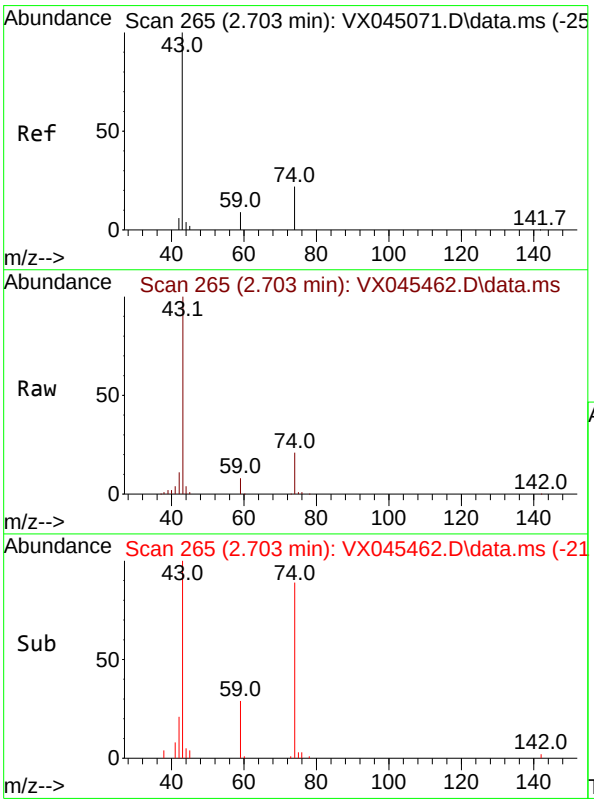
Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

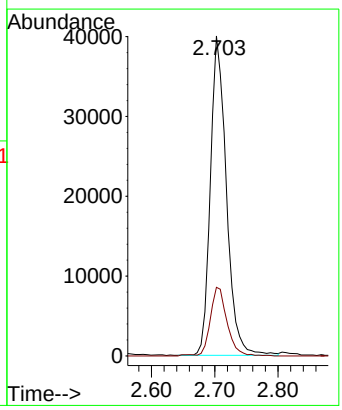
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

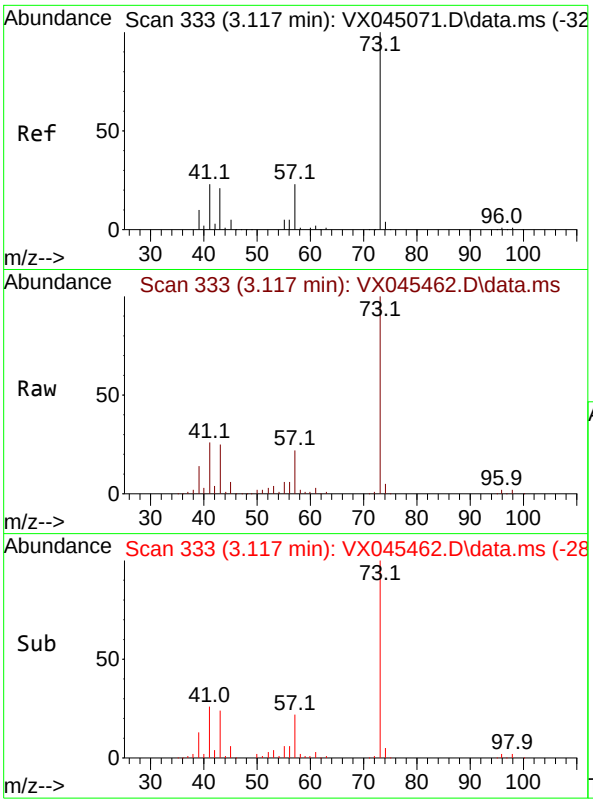


#18
Methyl Acetate
Concen: 48.341 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 70244

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

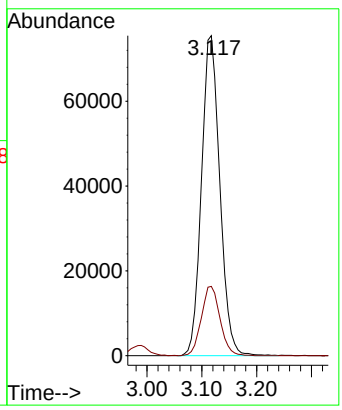




#19
Methyl tert-butyl Ether
Concen: 51.860 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 73 Resp: 17498

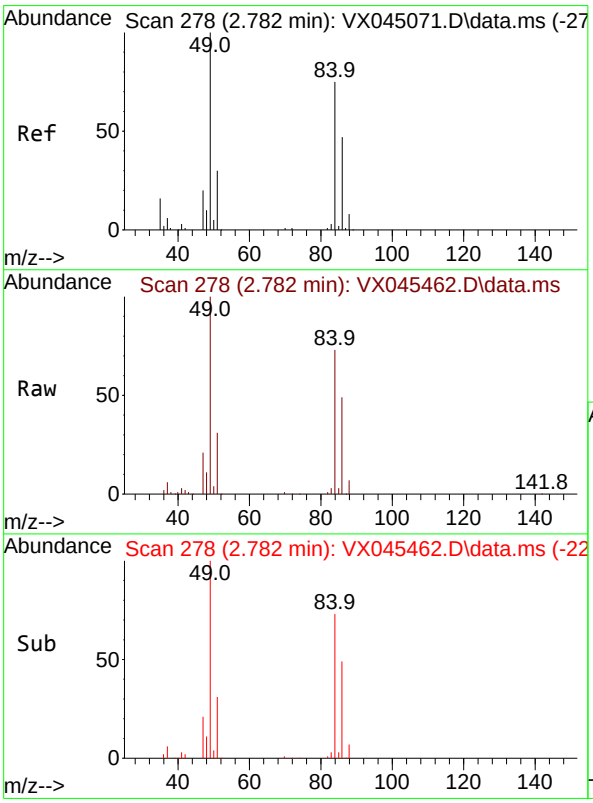
Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

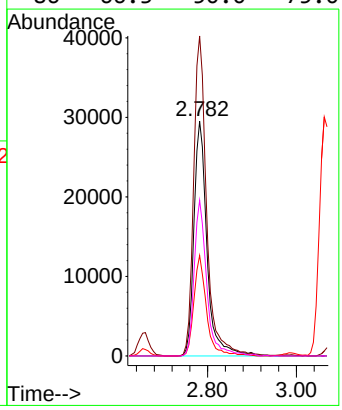
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

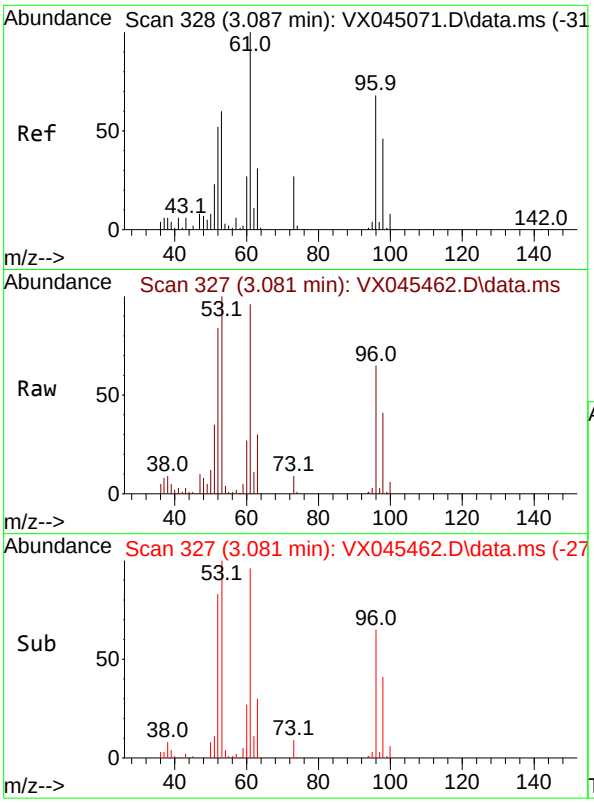


#20
Methylene Chloride
Concen: 50.433 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 84 Resp: 60344

Ion	Ratio	Lower	Upper
84	100		
49	136.3	106.5	159.7
51	42.8	32.1	48.1
86	66.3	50.0	75.0

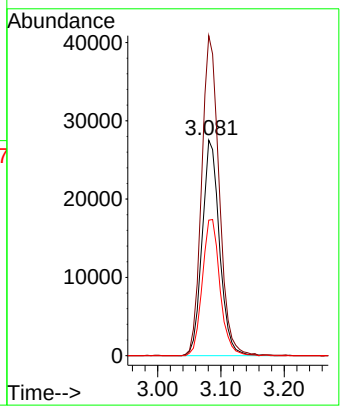




#21
trans-1,2-Dichloroethene
Concen: 52.878 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 96 Resp: 5253

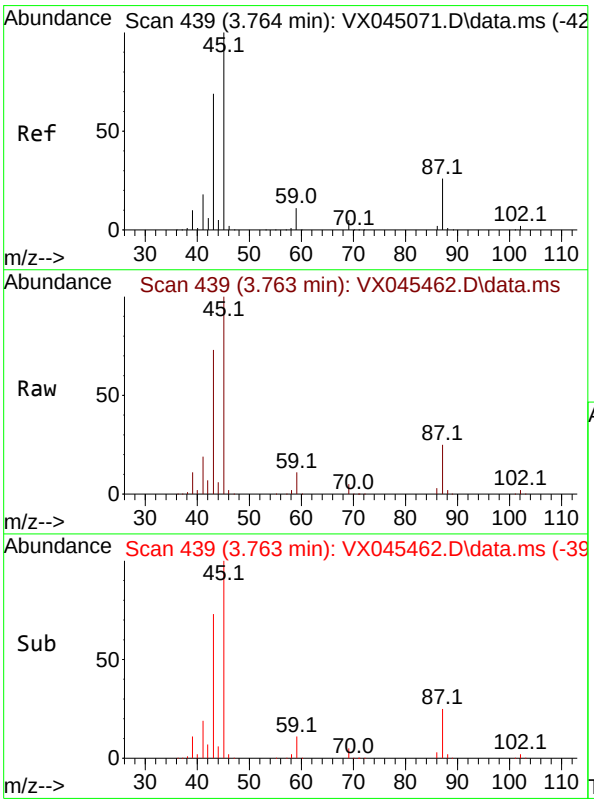
Ion	Ratio	Lower	Upper
96	100		
61	148.4	117.0	175.4
98	62.9	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

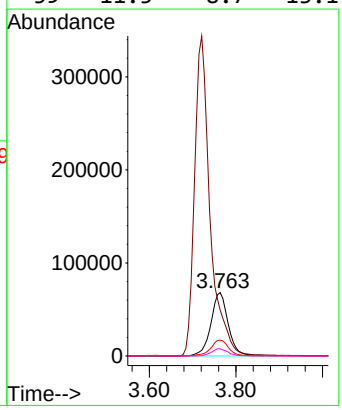
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

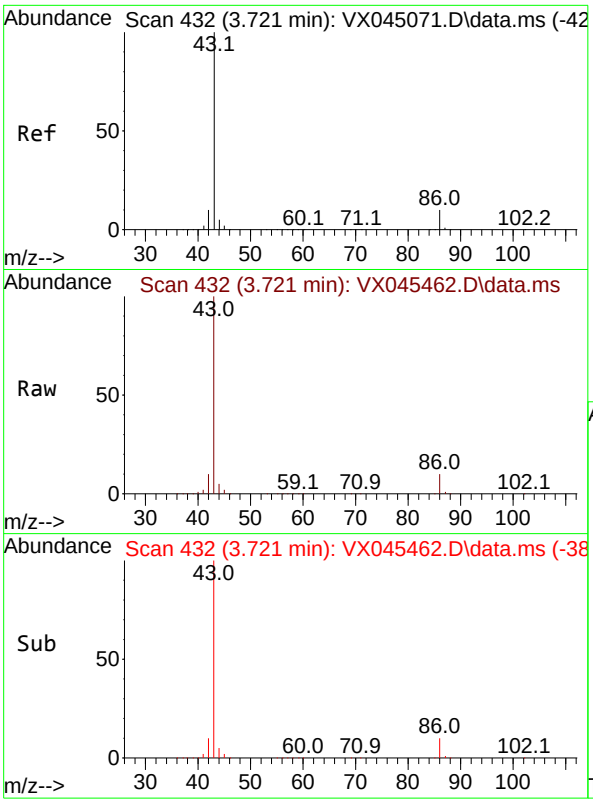


#22
Diisopropyl ether
Concen: 52.178 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 45 Resp: 189973

Ion	Ratio	Lower	Upper
45	100		
43	72.8	54.9	82.3
87	25.1	21.0	31.4
59	11.5	8.7	13.1





#23
Vinyl Acetate
Concen: 283.012 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

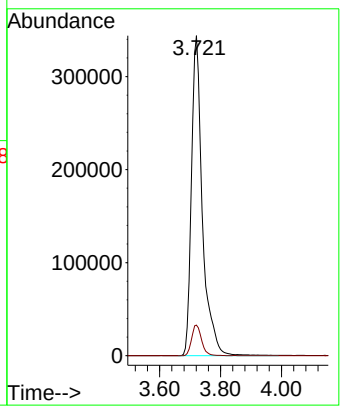
Tgt Ion: 43 Resp: 85988

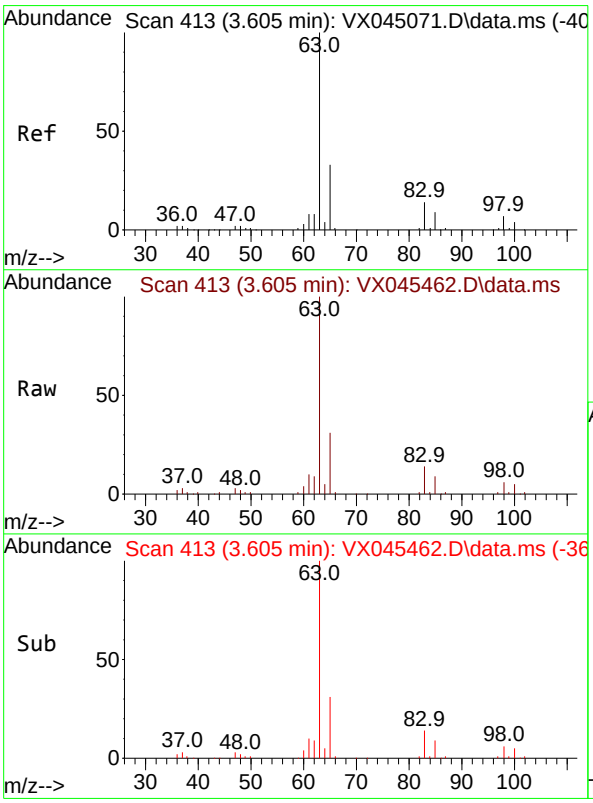
Ion	Ratio	Lower	Upper
43	100		
86	9.6	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

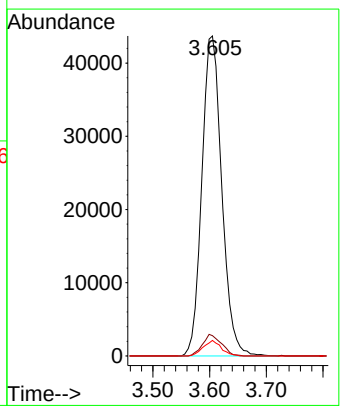


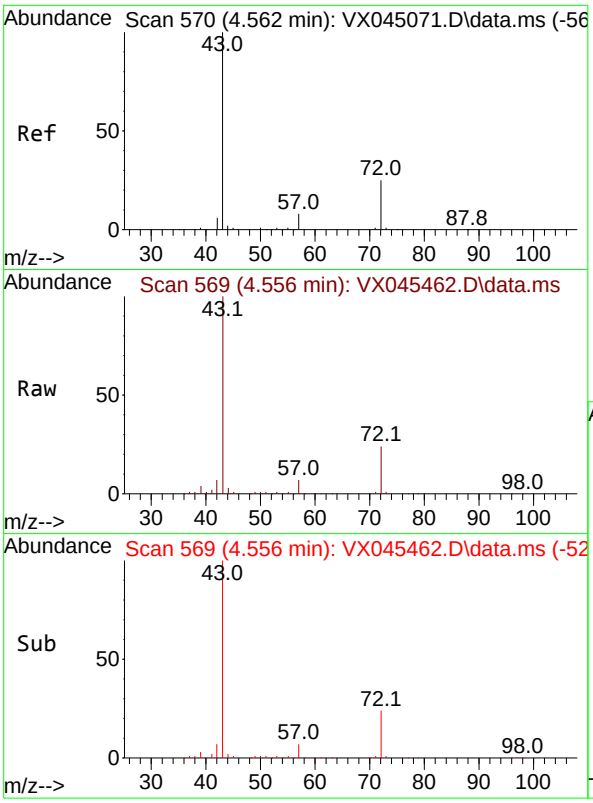


#24
1,1-Dichloroethane
Concen: 52.266 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 63 Resp: 106646

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.4	10.2
100	4.9	2.1	6.5





#25
2-Butanone
Concen: 270.113 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

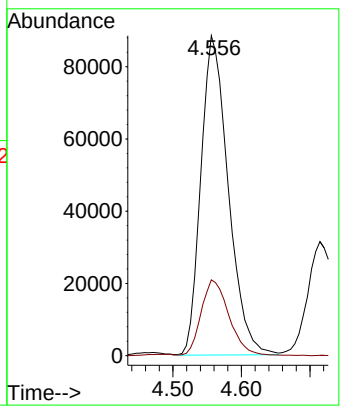
Tgt Ion: 43 Resp: 24559

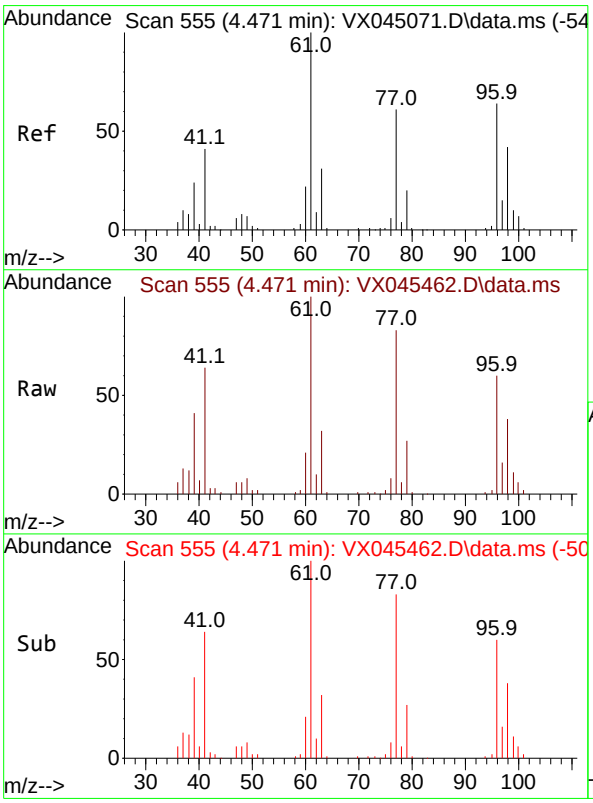
Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

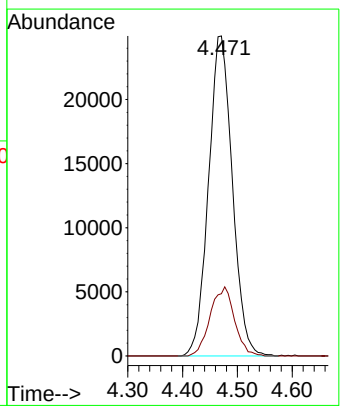


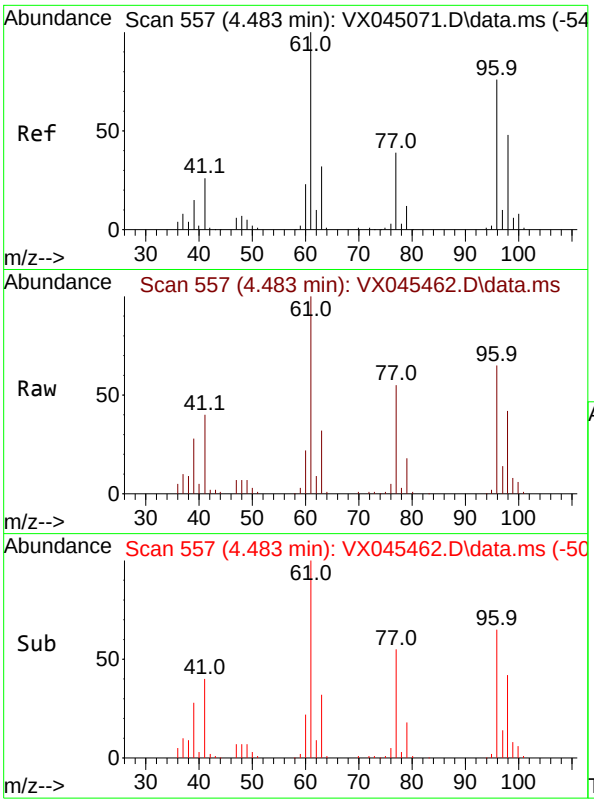


#26
2,2-Dichloropropane
Concen: 78.603 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 77 Resp: 75229

Ion	Ratio	Lower	Upper
77	100		
97	22.0	12.4	37.0

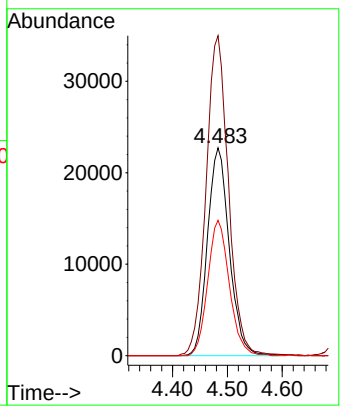




#27
cis-1,2-Dichloroethene
Concen: 51.117 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 96 Resp: 6269

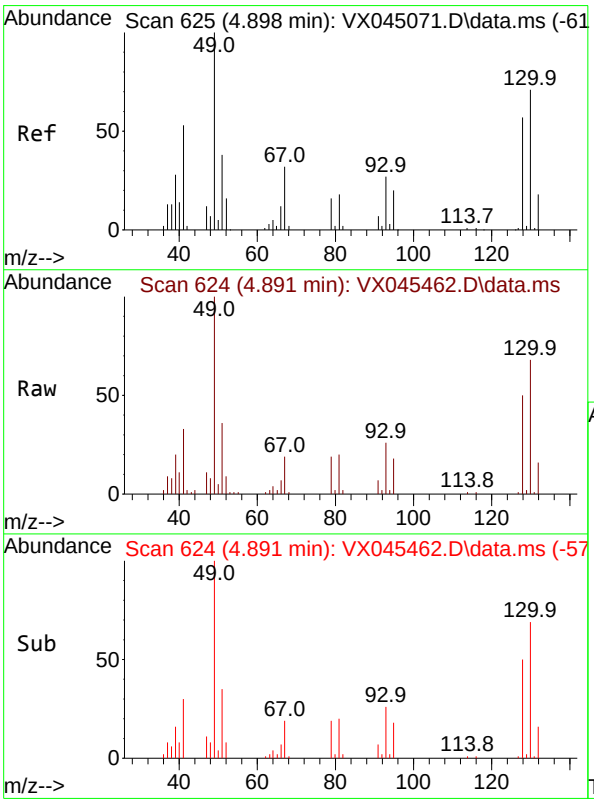
Ion	Ratio	Lower	Upper
96	100		
61	158.1	0.0	283.2
98	64.6	0.0	128.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

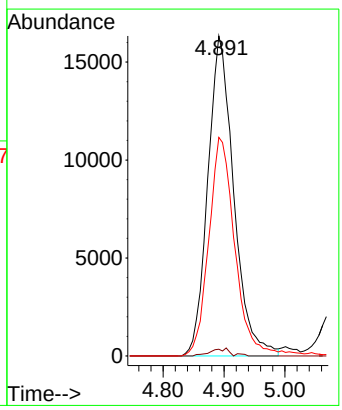
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

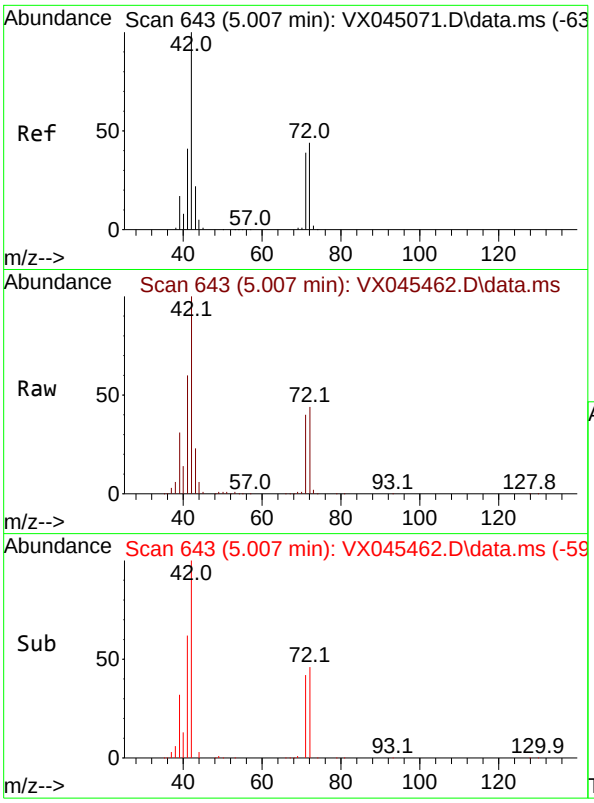


#28
Bromochloromethane
Concen: 49.686 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 49 Resp: 48323

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.4
130	69.0	56.1	84.1

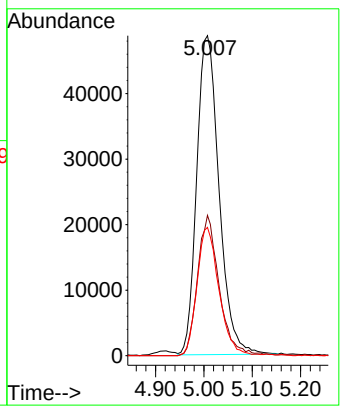




#29
Tetrahydrofuran
Concen: 255.764 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 42 Resp: 15616

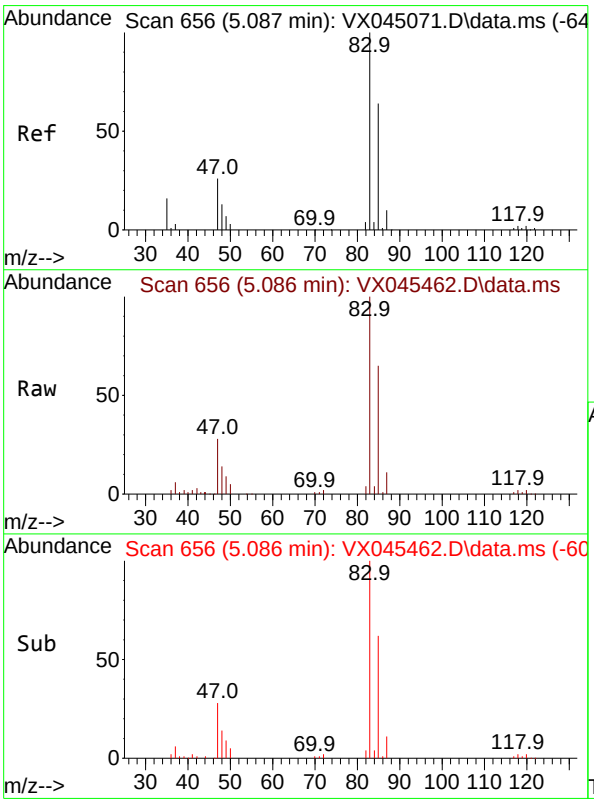
Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.1	51.1
71	39.6	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

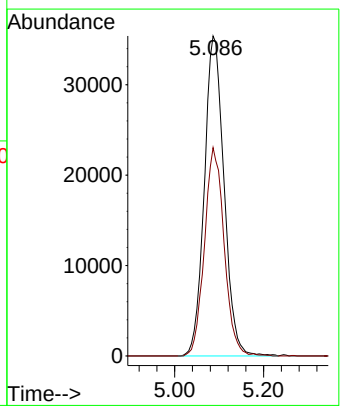
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

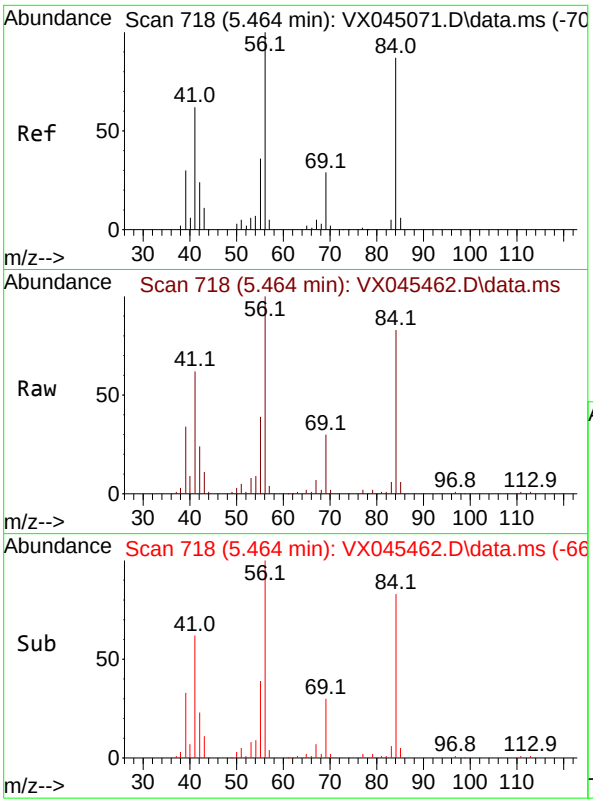


#30
Chloroform
Concen: 53.908 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 83 Resp: 109294

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.4	77.2





#31
Cyclohexane
Concen: 53.647 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

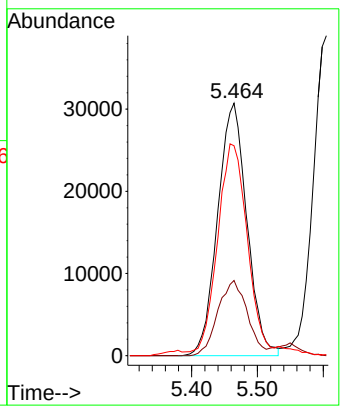
Tgt Ion: 56 Resp: 9502

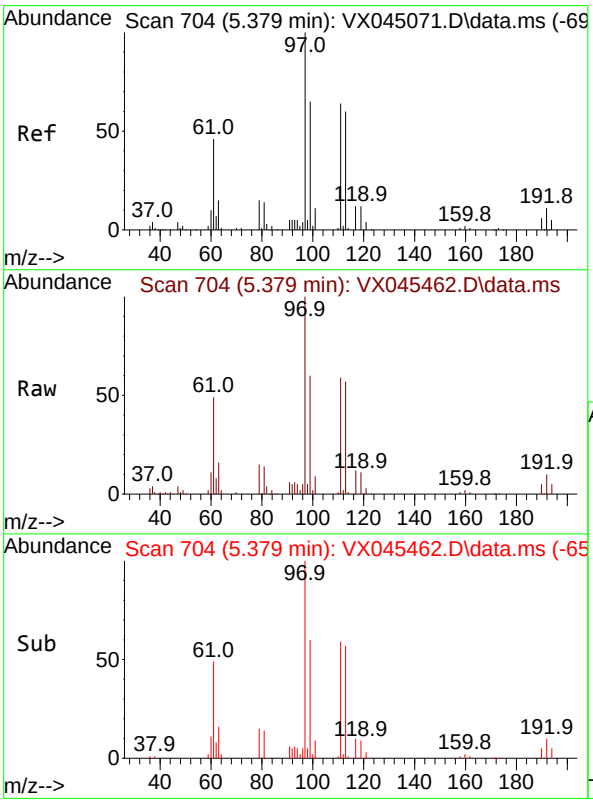
Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.4	35.2
84	81.0	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

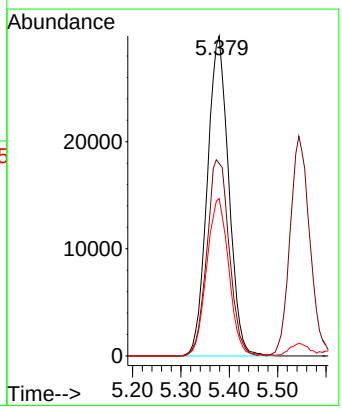


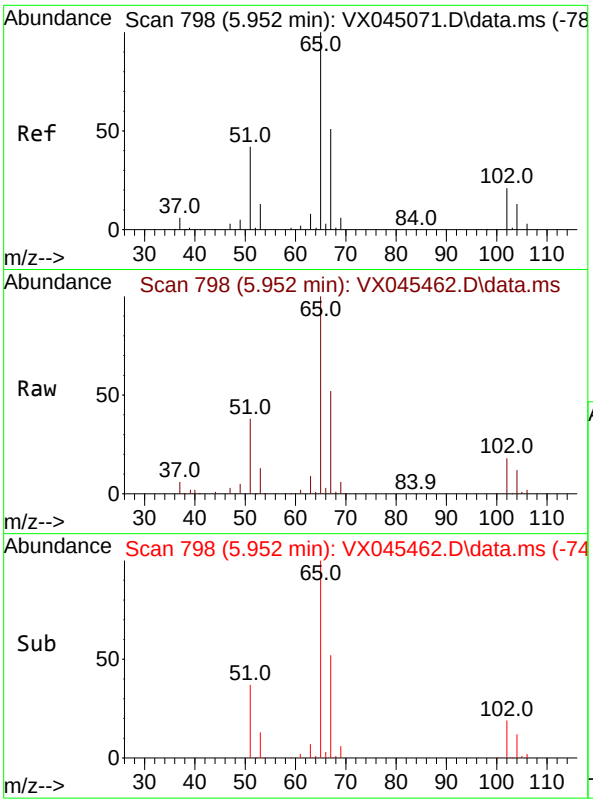


#32
1,1,1-Trichloroethane
Concen: 56.006 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 97 Resp: 91708

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.6	77.4
61	50.9	38.4	57.6

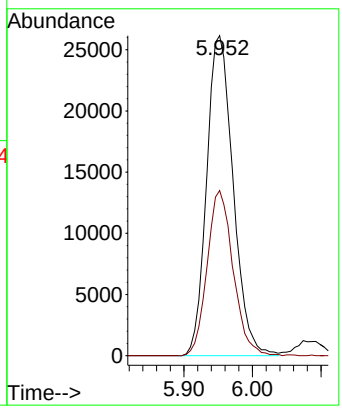




#33
1,2-Dichloroethane-d4
Concen: 54.024 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 65 Resp: 7033

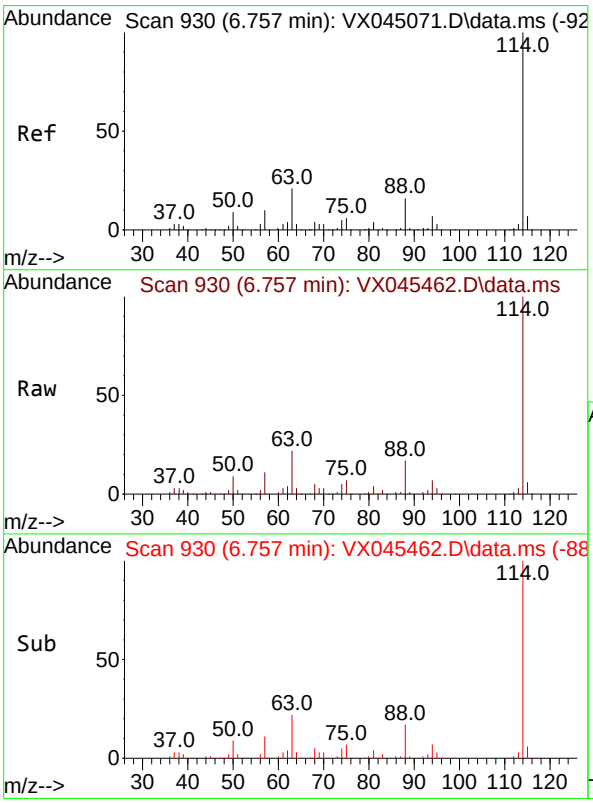
Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

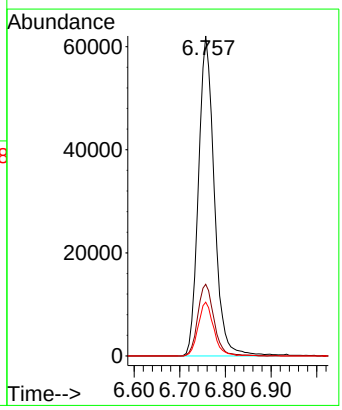
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

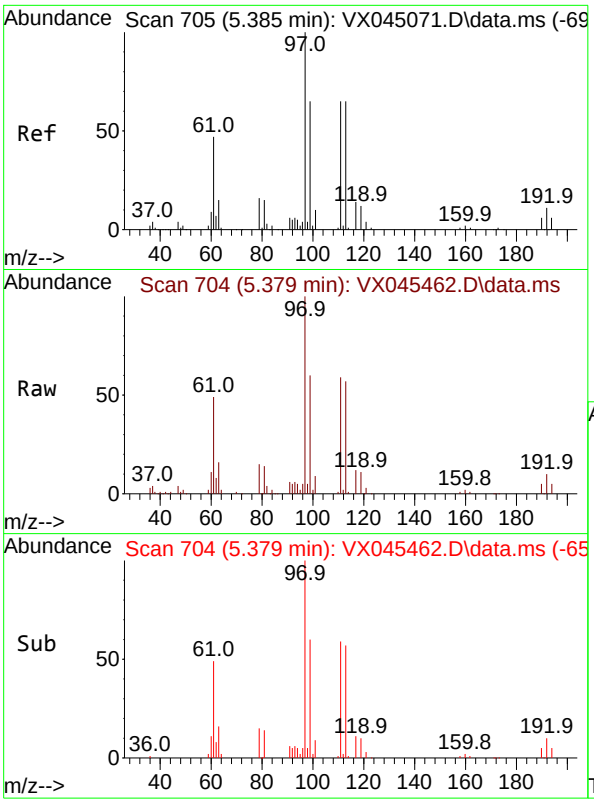


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:114 Resp: 149200

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	41.8
88	16.8	0.0	32.8

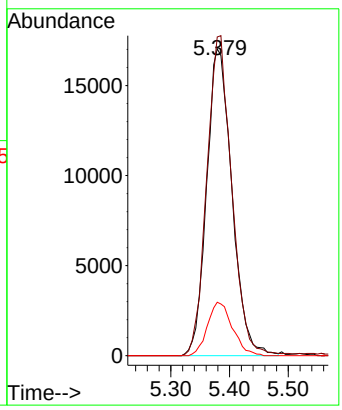




#35
Dibromofluoromethane
Concen: 51.177 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:113 Resp: 5105

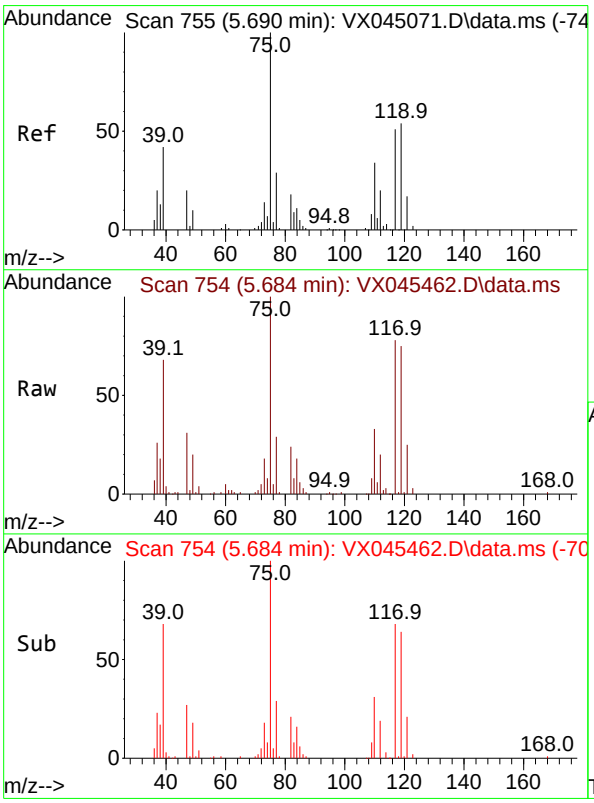
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	17.1	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

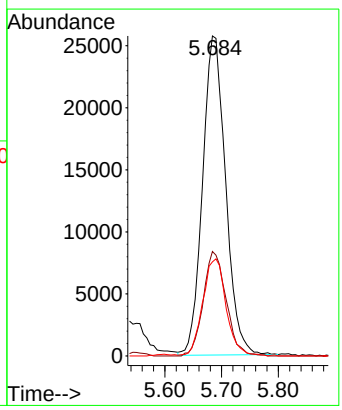
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

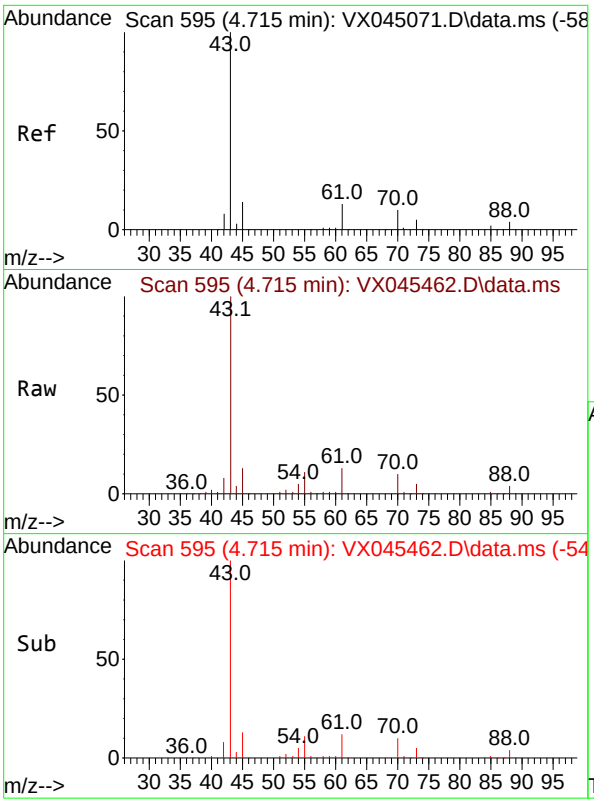


#36
1,1-Dichloropropene
Concen: 53.051 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 75 Resp: 72584

Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.9	50.6
77	30.9	24.5	36.7





#37
Ethyl Acetate
Concen: 52.741 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

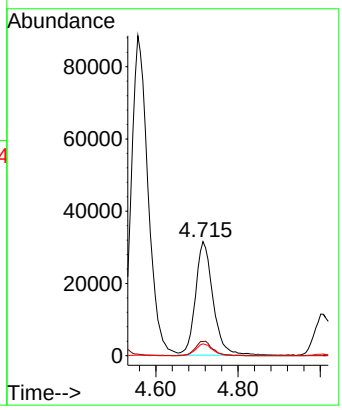
Tgt Ion: 43 Resp: 9298

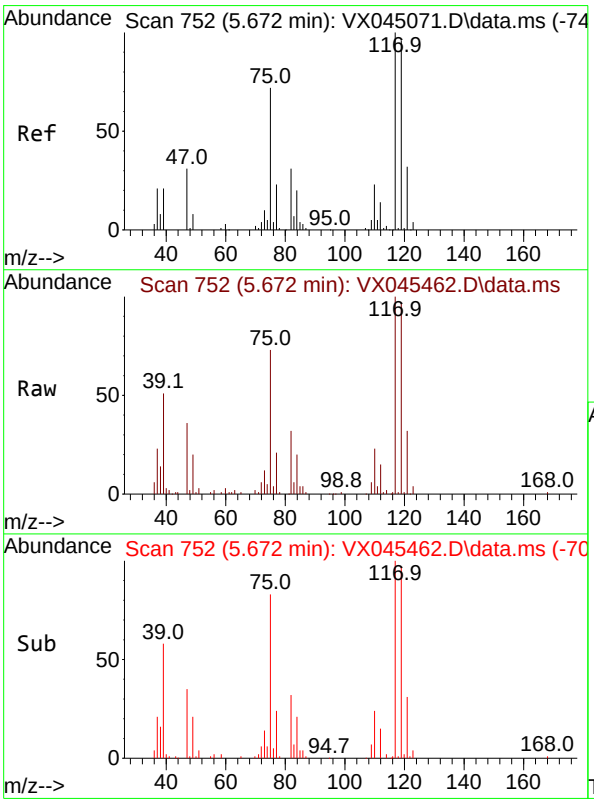
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.8	16.2
70	10.0	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

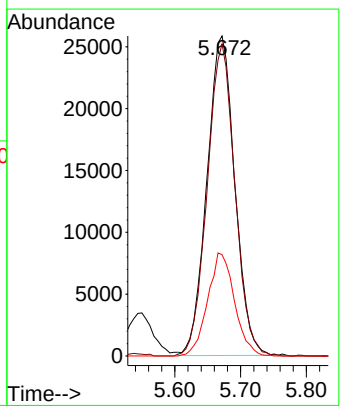


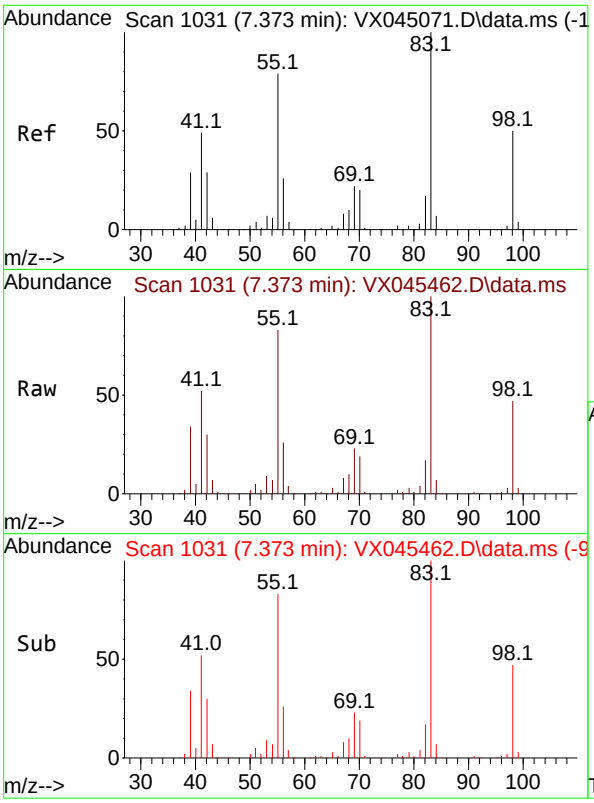


#38
Carbon Tetrachloride
Concen: 54.939 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:117 Resp: 76313

Ion	Ratio	Lower	Upper
117	100		
119	97.4	76.7	115.1
121	31.7	25.5	38.3

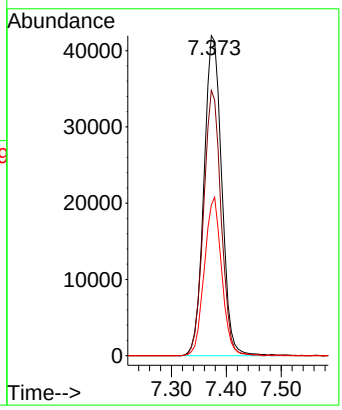




#39
Methylcyclohexane
Concen: 57.508 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 83 Resp: 9427

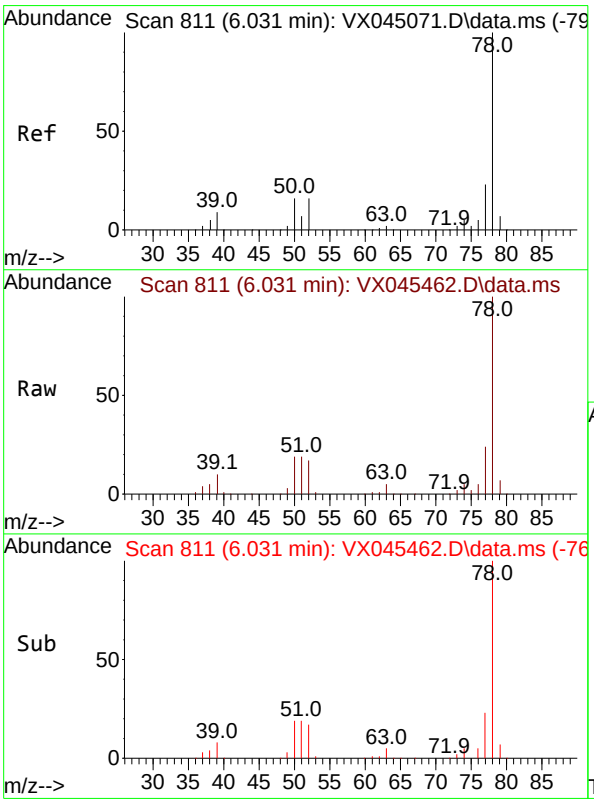
Ion	Ratio	Lower	Upper
83	100		
55	82.9	63.0	94.4
98	47.1	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

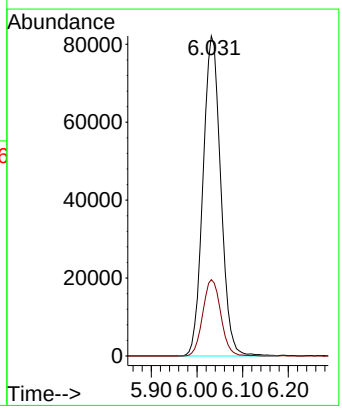
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

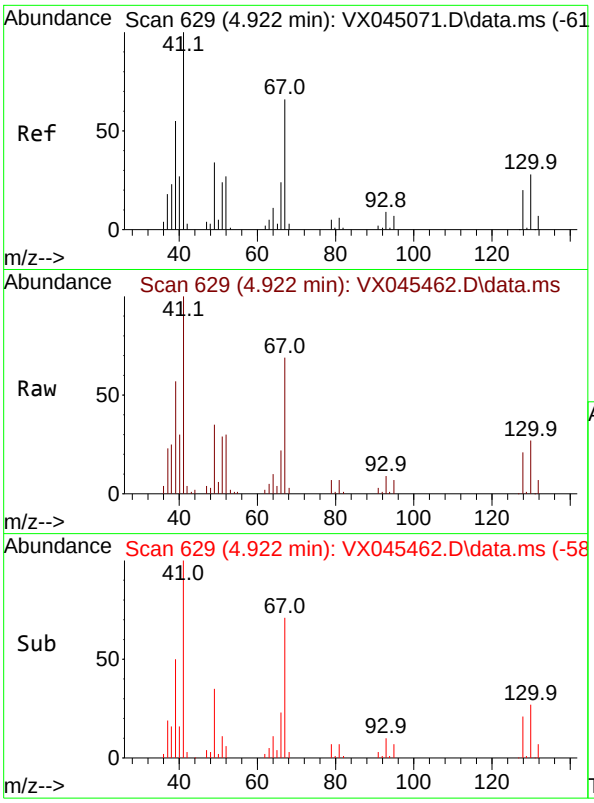


#40
Benzene
Concen: 51.328 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 78 Resp: 221759

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2

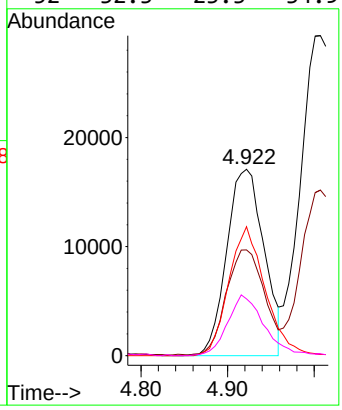




#41
Methacrylonitrile
Concen: 53.741 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 41 Resp: 5123

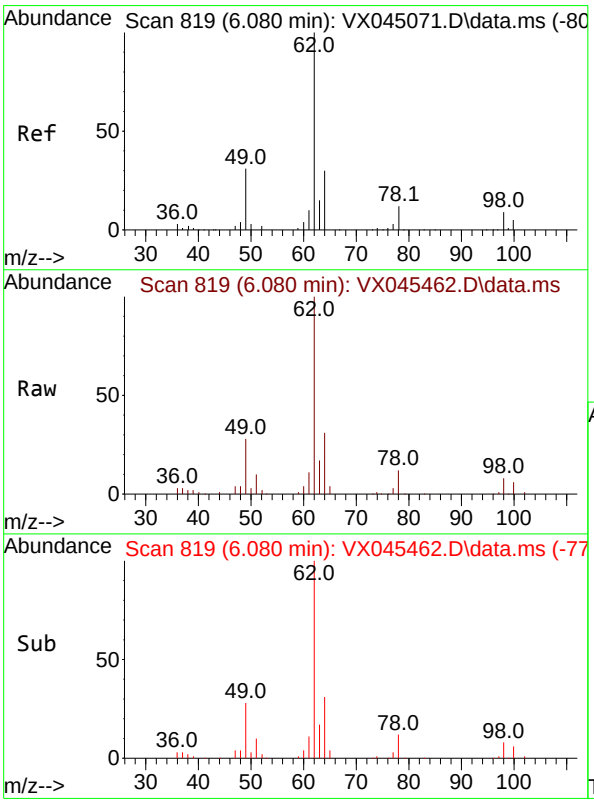
Ion	Ratio	Lower	Upper
41	100		
39	57.3	44.6	67.0
67	67.7	53.9	80.9
52	32.3	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

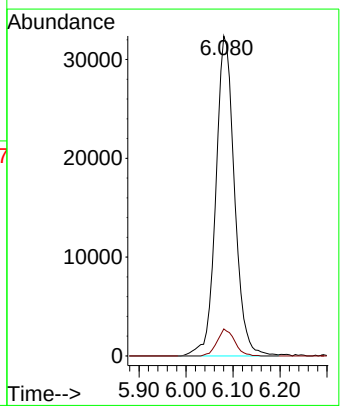
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

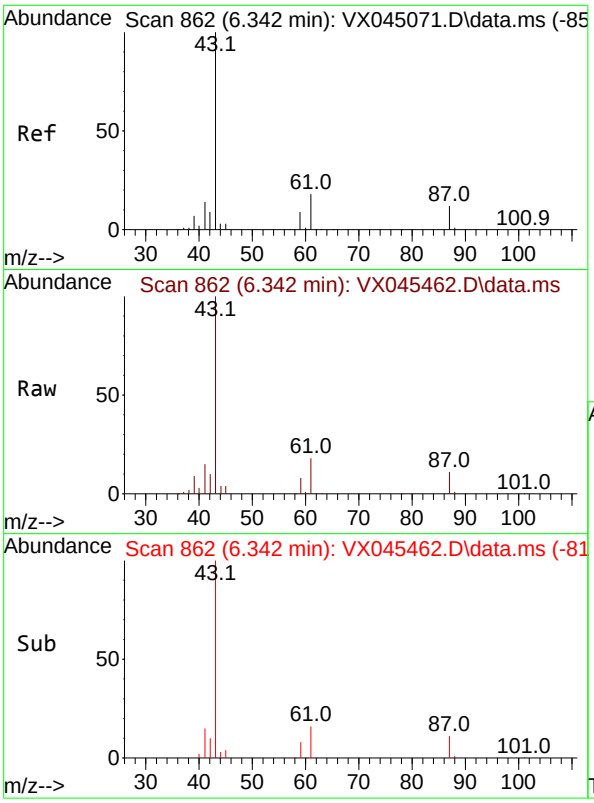


#42
1,2-Dichloroethane
Concen: 57.574 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 62 Resp: 89573

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	18.2





#43
Isopropyl Acetate
Concen: 53.941 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

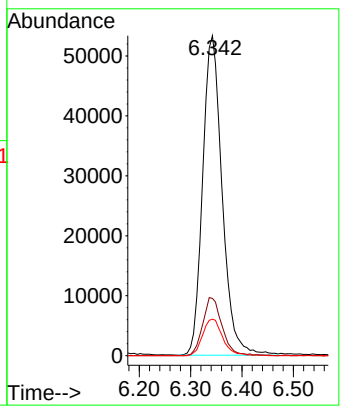
Tgt Ion: 43 Resp: 14062

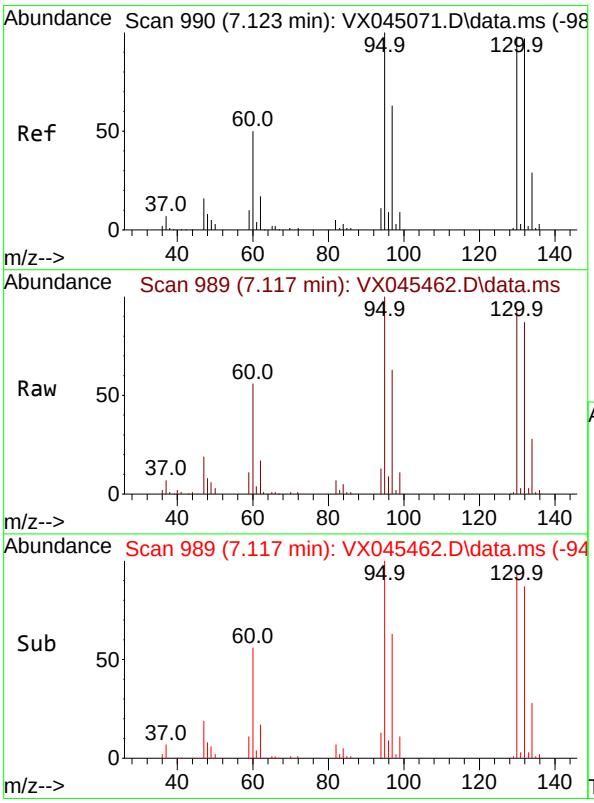
Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.9	22.3
87	11.8	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

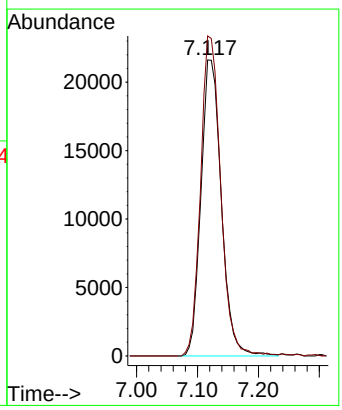


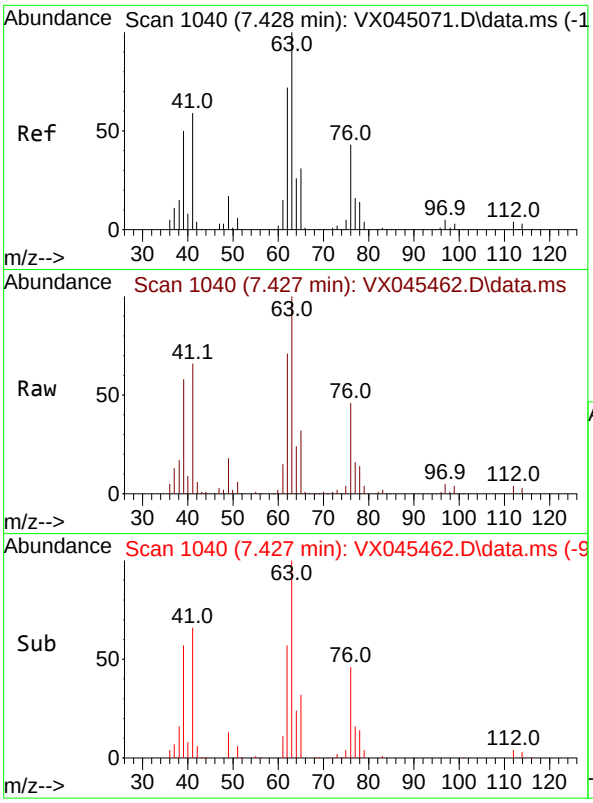


#44
Trichloroethene
Concen: 49.602 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:130 Resp: 50320

Ion	Ratio	Lower	Upper
130	100		
95	108.1	0.0	205.0

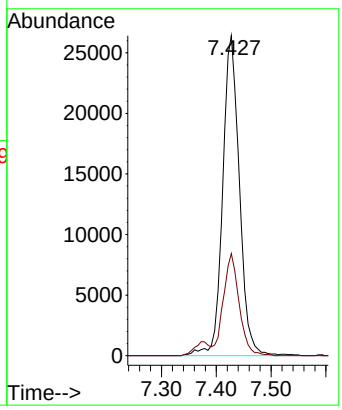




#45
1,2-Dichloropropane
Concen: 50.601 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 63 Resp: 5620

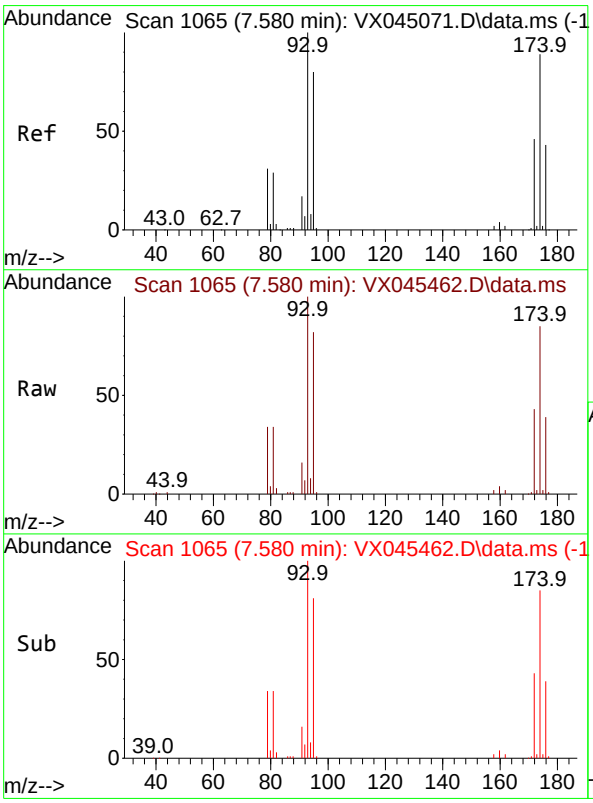
Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

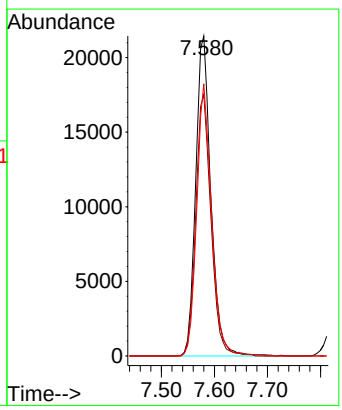
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

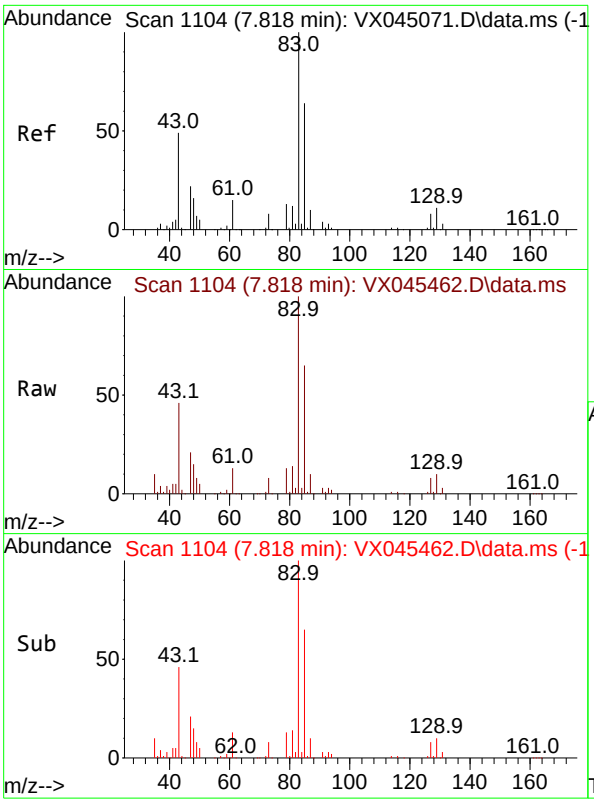


#46
Dibromomethane
Concen: 54.339 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 93 Resp: 42664

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.8	98.8
174	83.6	72.2	108.2

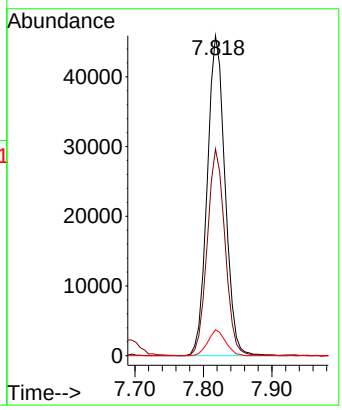




#47
Bromodichloromethane
Concen: 53.857 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 83 Resp: 8294

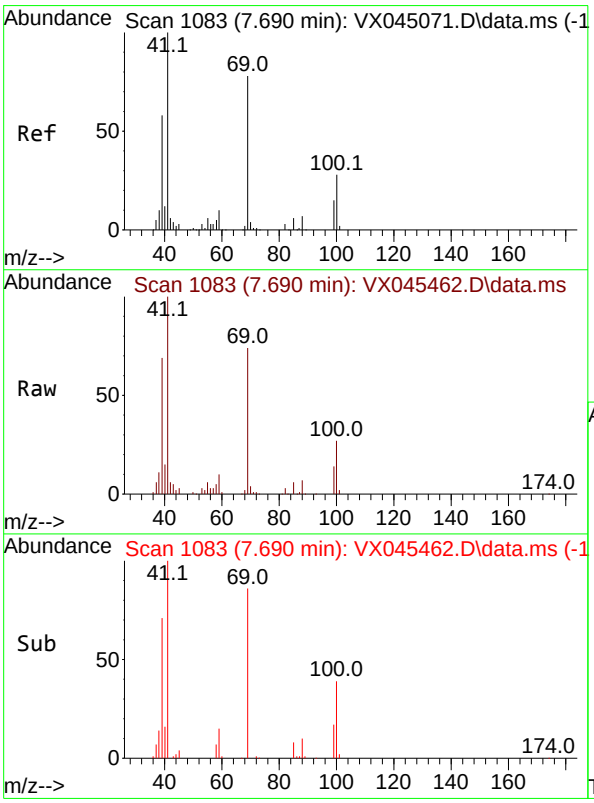
Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.1	76.7
127	8.1	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

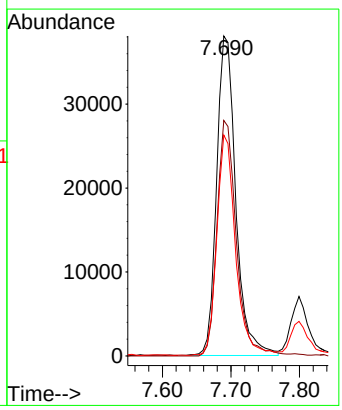
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

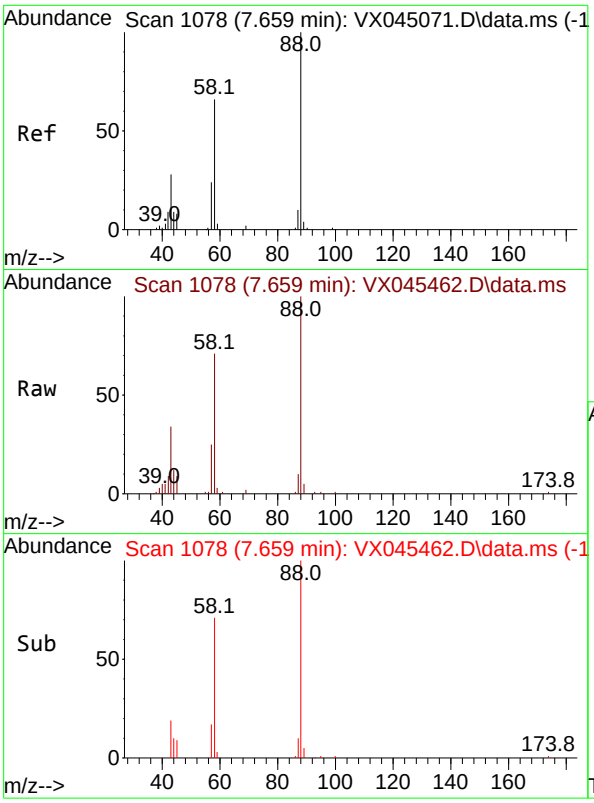


#48
Methyl methacrylate
Concen: 56.494 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 41 Resp: 73888

Ion	Ratio	Lower	Upper
41	100		
69	74.9	63.0	94.6
39	67.1	47.5	71.3

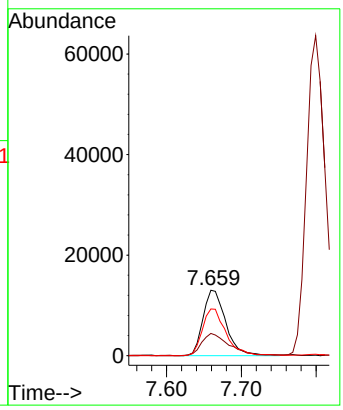




#49
1,4-Dioxane
Concen: 1000.591 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 88 Resp: 2760

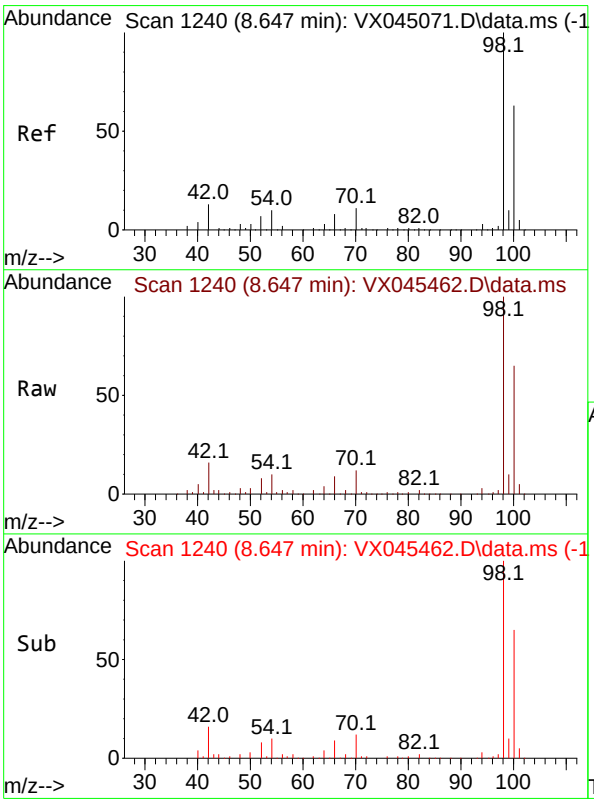
Ion	Ratio	Lower	Upper
88	100		
43	40.8	28.7	43.1
58	72.8	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

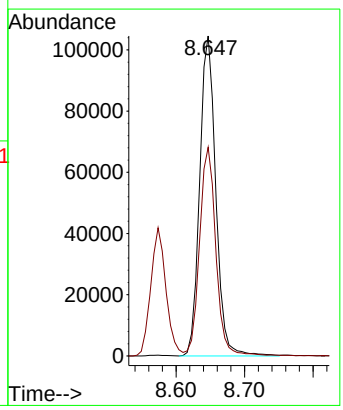
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

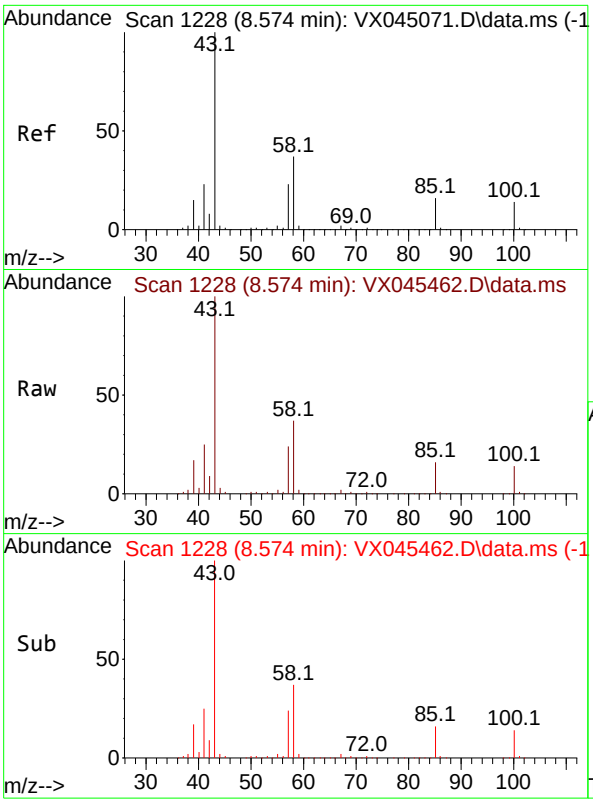


#50
Toluene-d8
Concen: 47.378 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 98 Resp: 171361

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.0	78.0

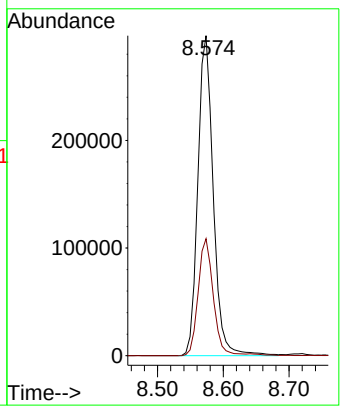




#51
4-Methyl-2-Pentanone
Concen: 277.099 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 48504

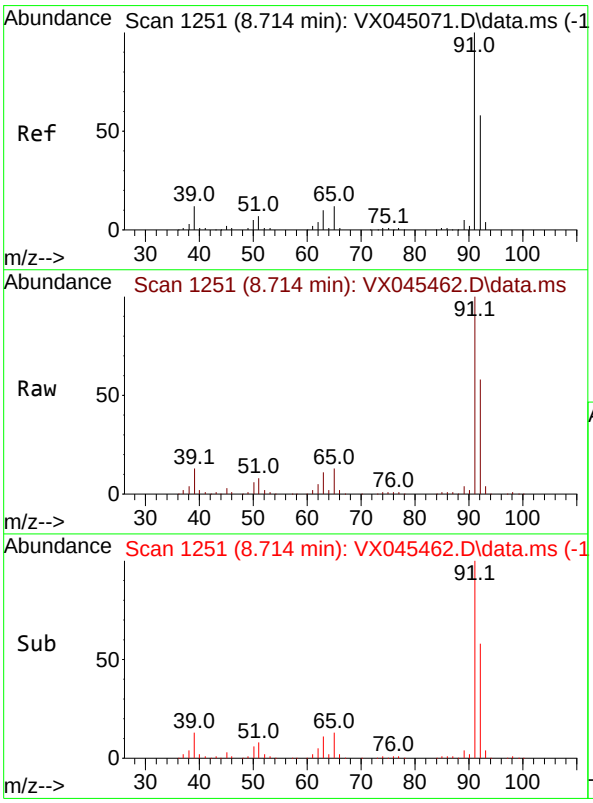
Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

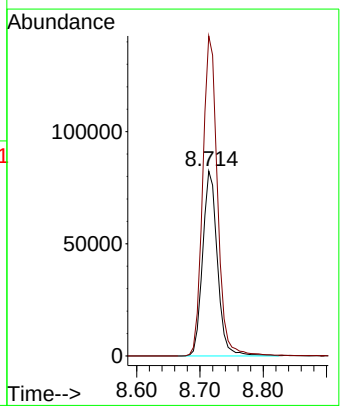
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

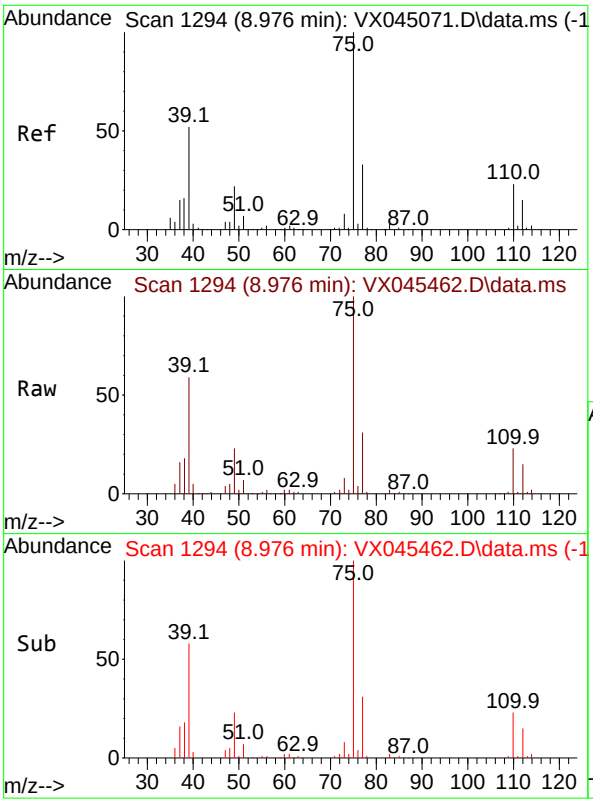


#52
Toluene
Concen: 52.942 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 92 Resp: 134202

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.9	208.3

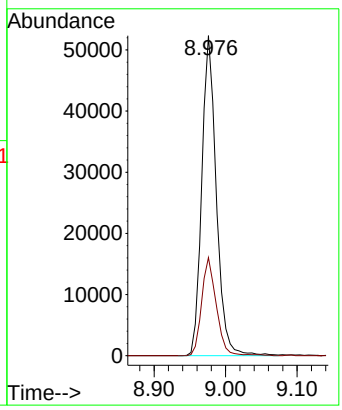




#53
t-1,3-Dichloropropene
Concen: 57.485 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 75 Resp: 7401

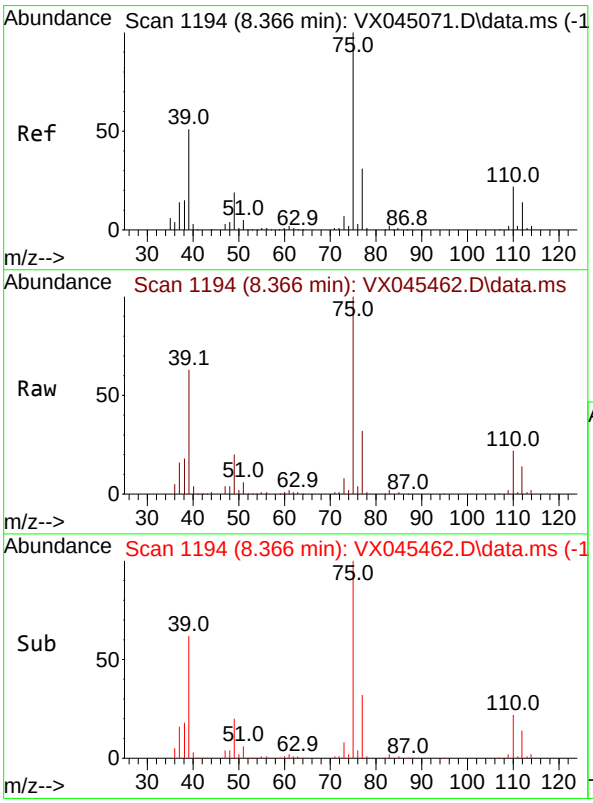
Ion	Ratio	Lower	Upper
75	100		
77	30.6	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

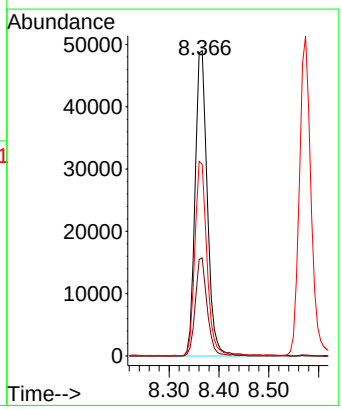
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

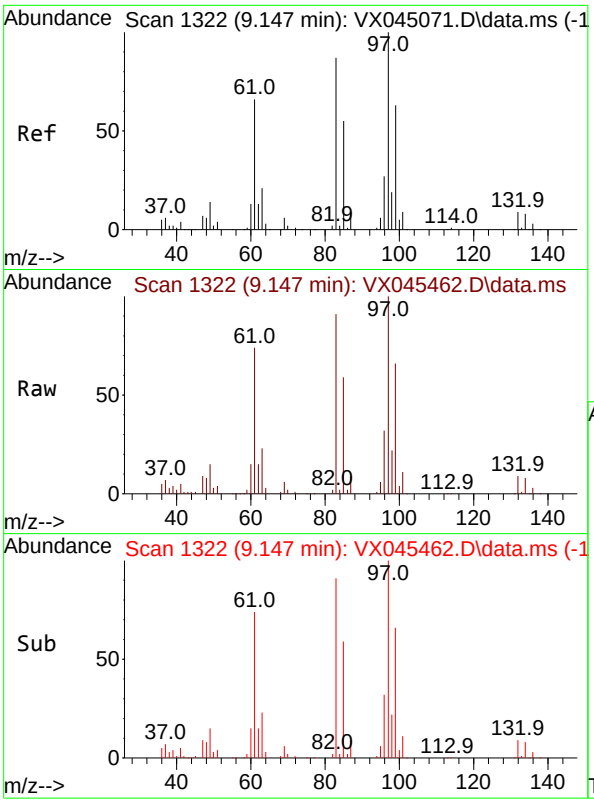


#54
cis-1,3-Dichloropropene
Concen: 55.713 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 75 Resp: 83643

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.7	37.1
39	62.6	40.7	61.1#

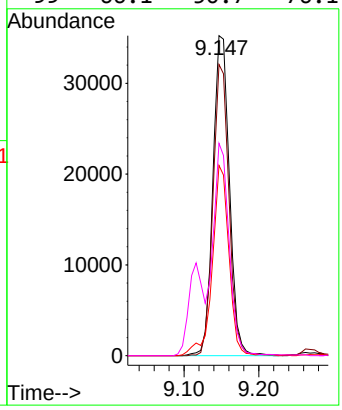




#55
1,1,2-Trichloroethane
Concen: 51.916 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 97 Resp: 5417

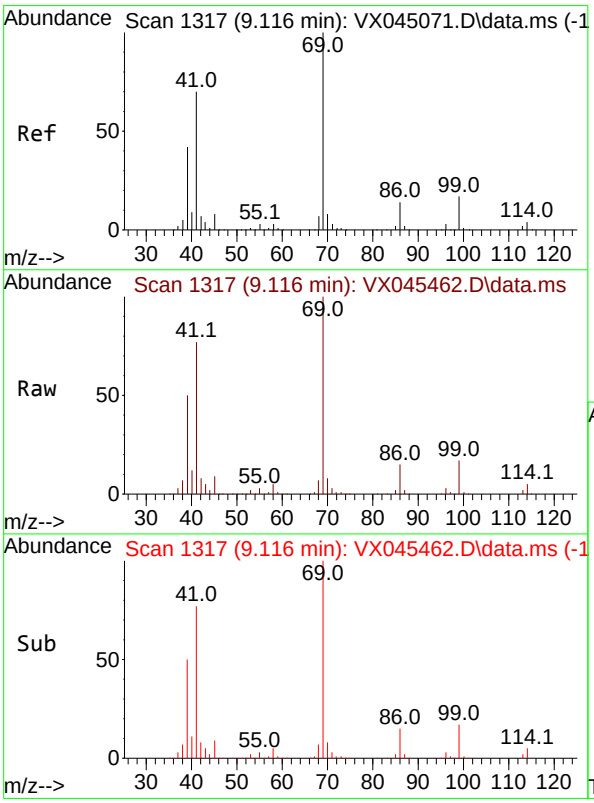
Ion	Ratio	Lower	Upper
97	100		
83	91.0	69.4	104.2
85	59.4	44.1	66.1
99	66.1	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

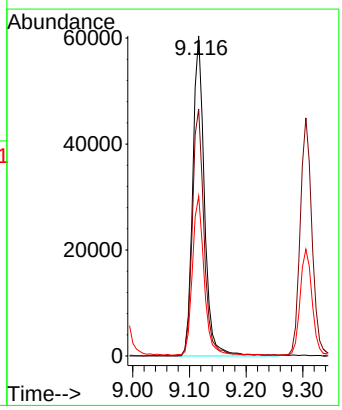
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

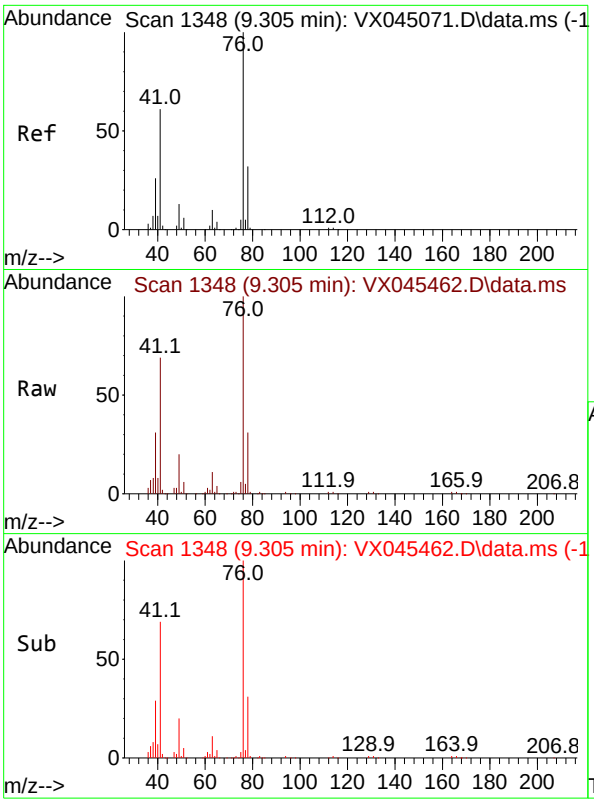


#56
Ethyl methacrylate
Concen: 54.505 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 69 Resp: 86460

Ion	Ratio	Lower	Upper
69	100		
41	77.3	57.0	85.4
39	49.6	34.2	51.4

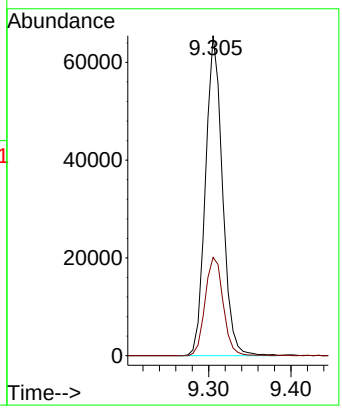




#57
1,3-Dichloropropane
Concen: 51.936 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 76 Resp: 9379

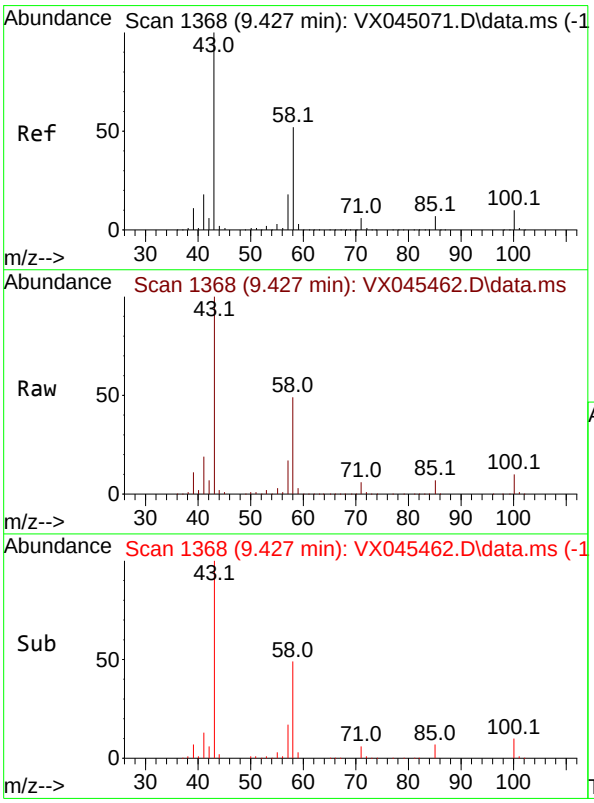
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

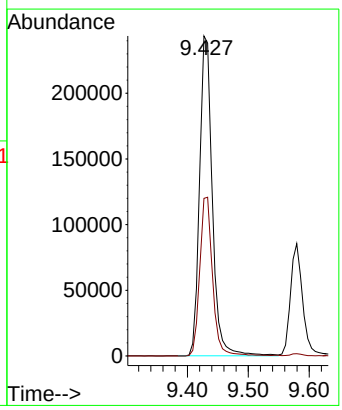
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

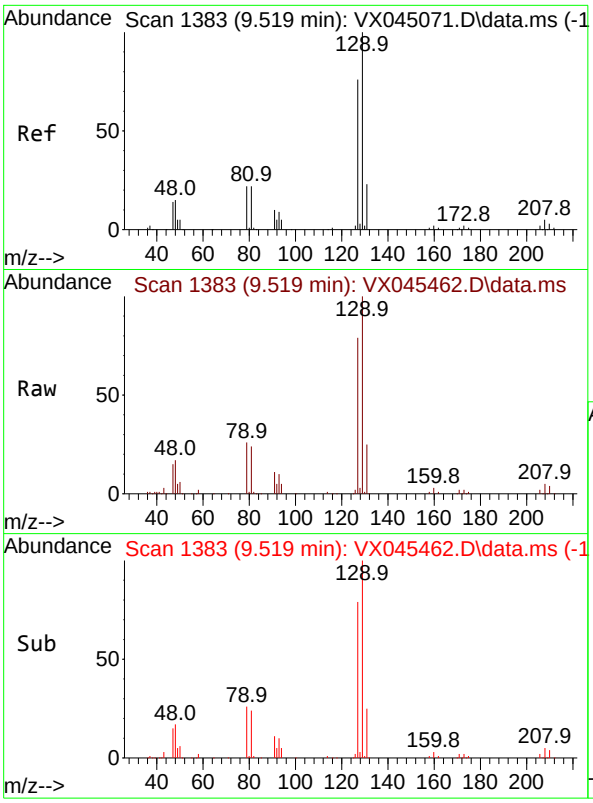


#59
2-Hexanone
Concen: 279.563 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 354561

Ion	Ratio	Lower	Upper
43	100		
58	50.0	25.9	77.6

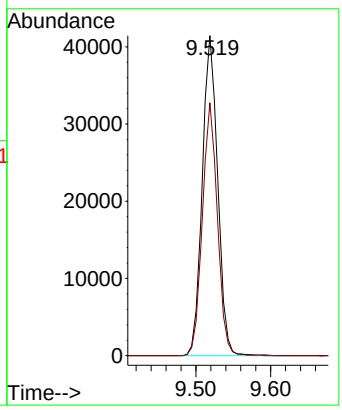




#60
Dibromochloromethane
Concen: 54.391 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:129 Resp: 5934

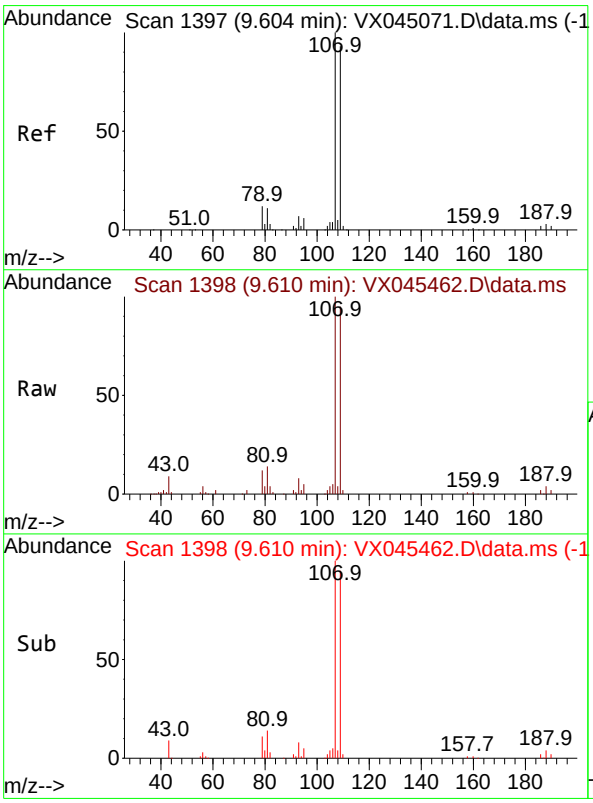
Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

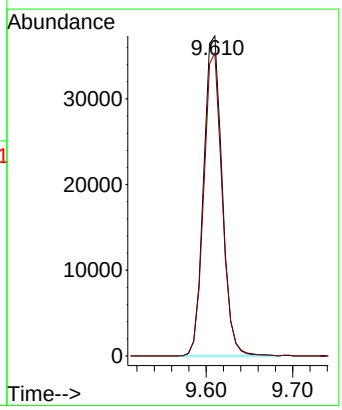
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

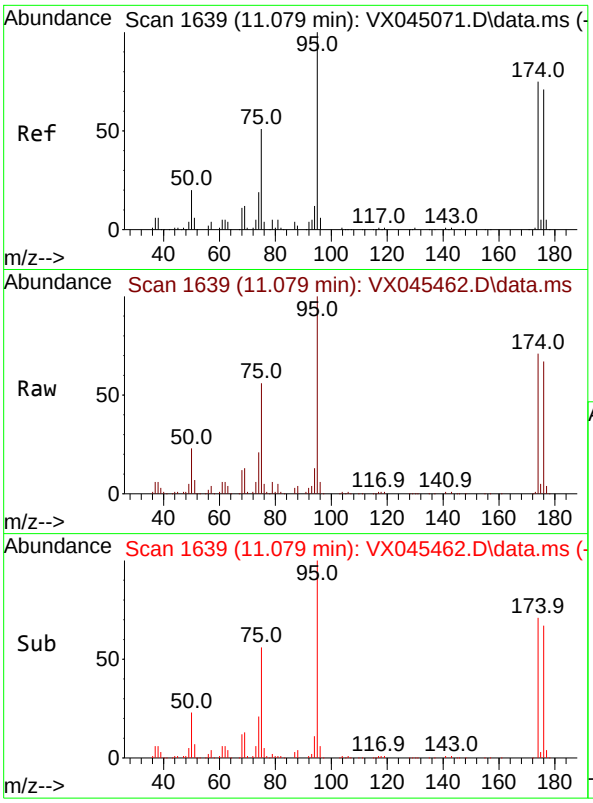


#61
1,2-Dibromoethane
Concen: 53.243 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:107 Resp: 55467

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1

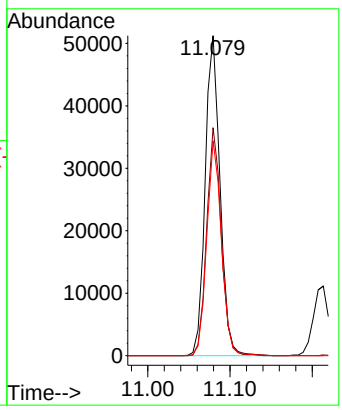




#62
4-Bromofluorobenzene
Concen: 53.525 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 95 Resp: 6415

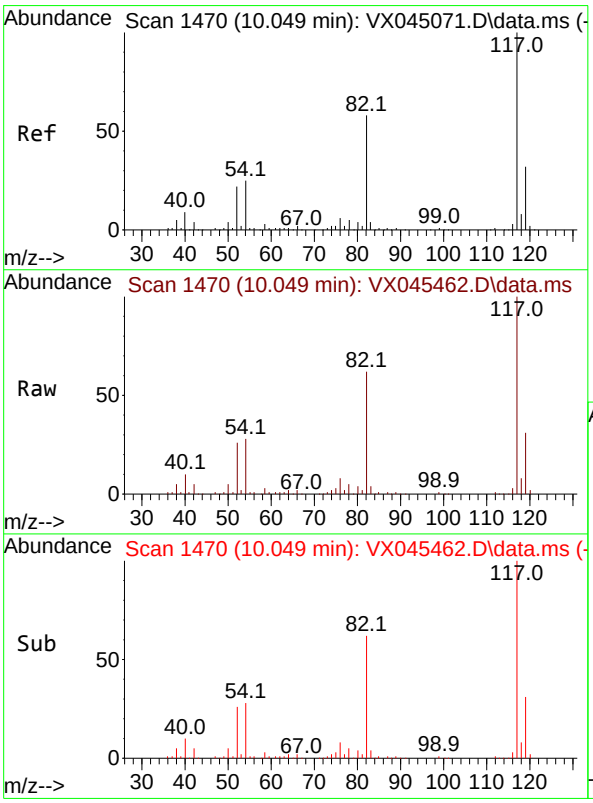
Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	148.2
176	66.3	0.0	141.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations APPROVED

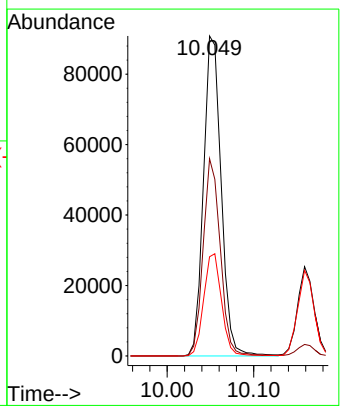
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

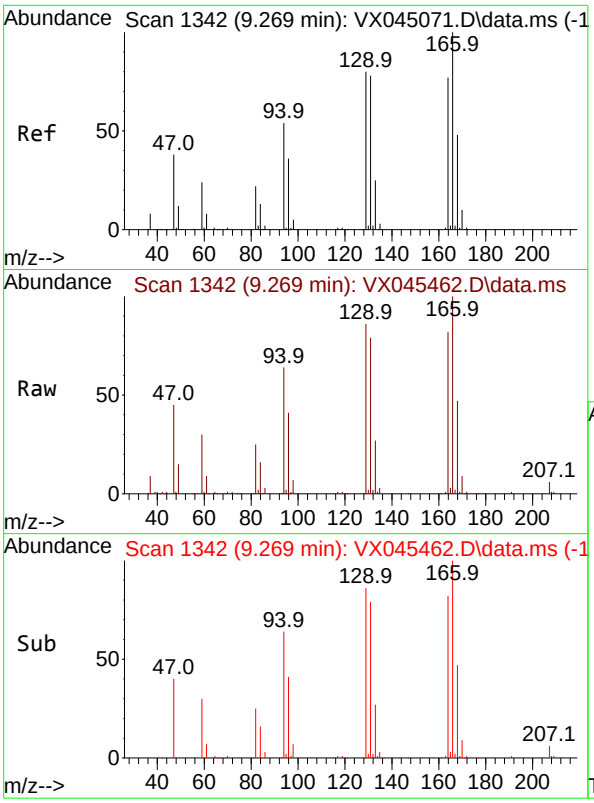


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:117 Resp: 128995

Ion	Ratio	Lower	Upper
117	100		
82	61.7	46.3	69.5
119	31.0	25.7	38.5

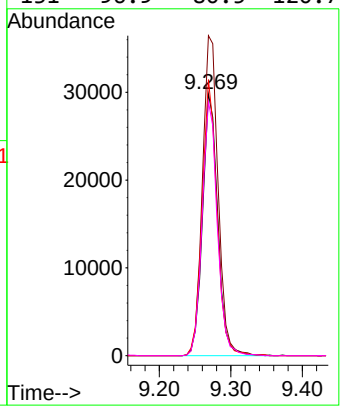




#64
Tetrachloroethene
Concen: 53.180 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:164 Resp: 4393

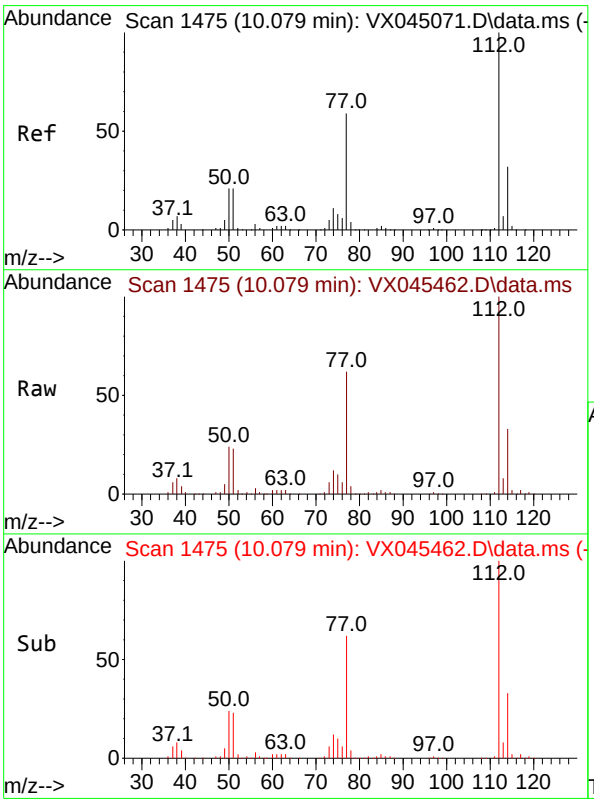
Ion	Ratio	Lower	Upper
164	100		
166	122.2	103.6	155.4
129	105.4	82.7	124.1
131	96.9	80.5	120.7



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

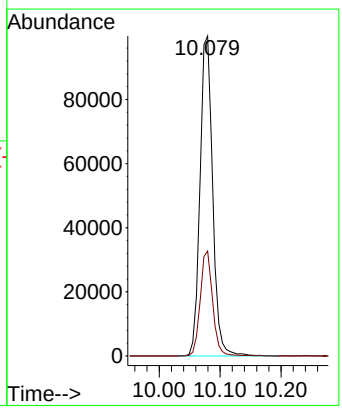
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

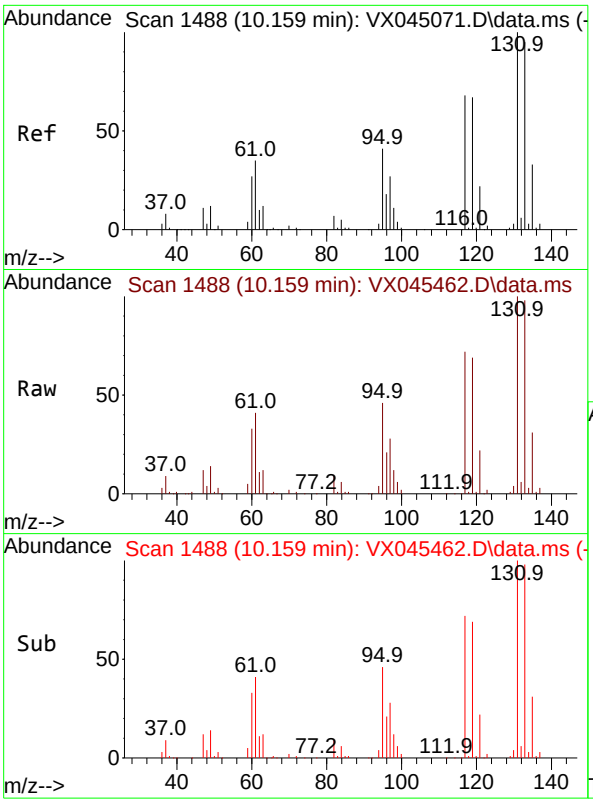


#65
Chlorobenzene
Concen: 52.887 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:112 Resp: 144357

Ion	Ratio	Lower	Upper
112	100		
114	32.8	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 53.877 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

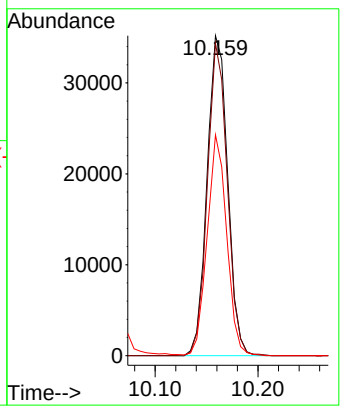
Tgt Ion:131 Resp: 4897

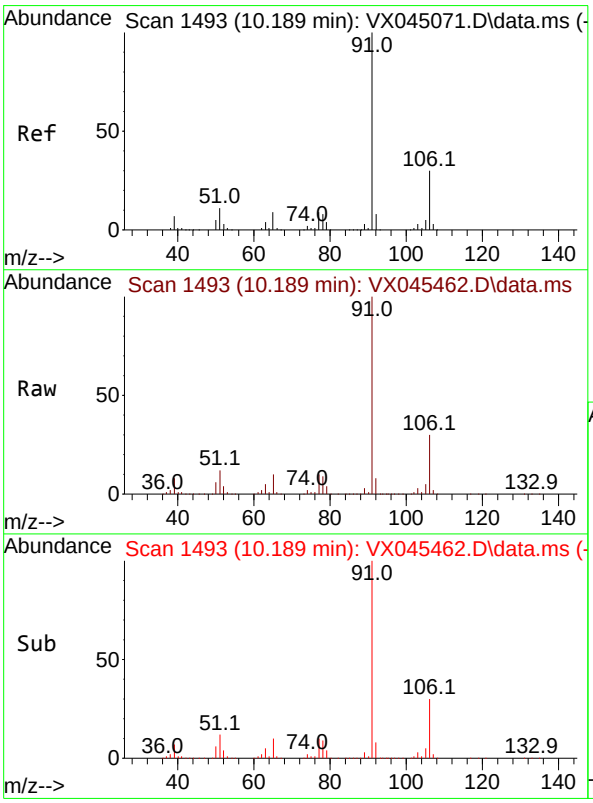
Ion	Ratio	Lower	Upper
131	100		
133	94.2	48.6	145.9
119	65.4	33.9	101.7

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

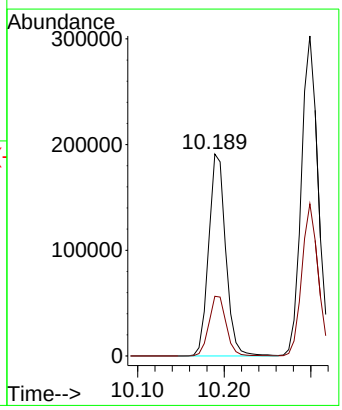


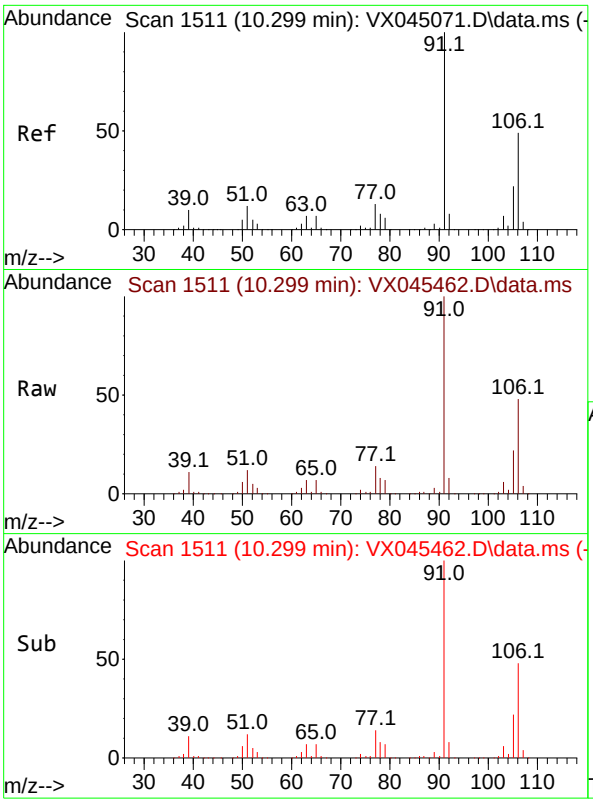


#67
Ethyl Benzene
Concen: 54.944 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 91 Resp: 261313

Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.9	35.9

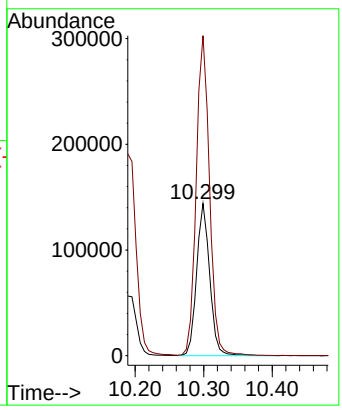




#68
m/p-Xylenes
Concen: 109.870 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:106 Resp: 19128

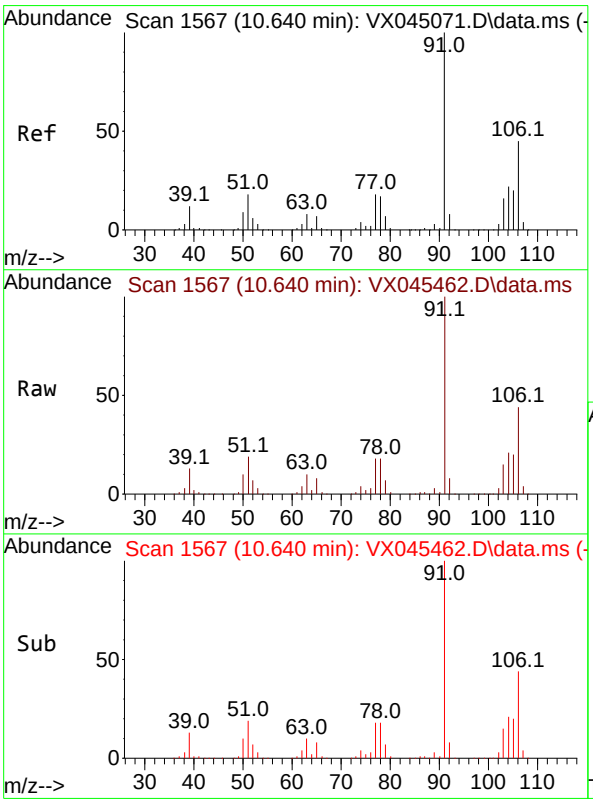
Ion	Ratio	Lower	Upper
106	100		
91	214.4	165.4	248.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

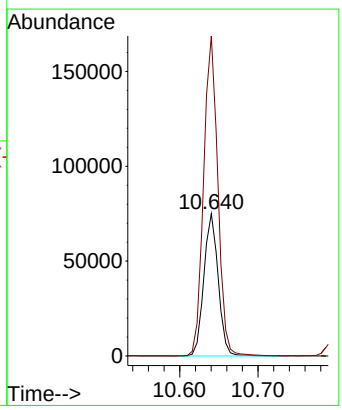
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

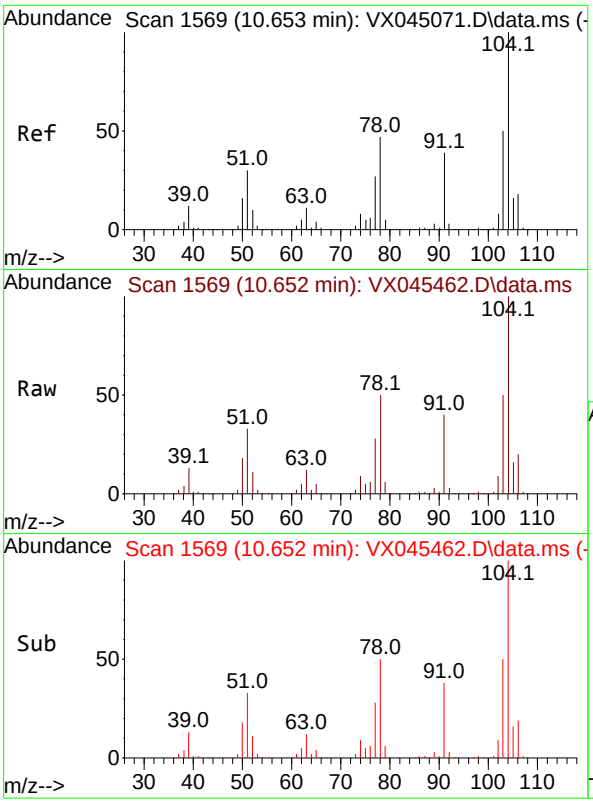


#69
o-Xylene
Concen: 54.099 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:106 Resp: 94995

Ion	Ratio	Lower	Upper
106	100		
91	224.4	109.9	329.6

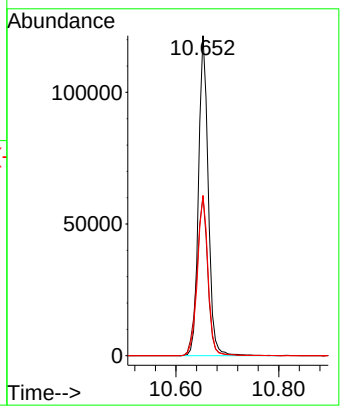




#70
Styrene
Concen: 56.074 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:104 Resp: 15932

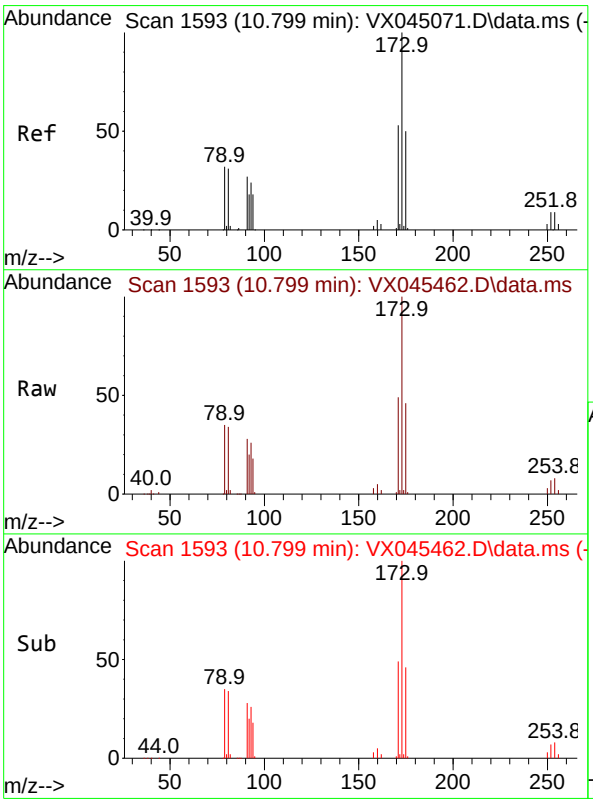
Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.2	63.4
103	54.5	43.8	65.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

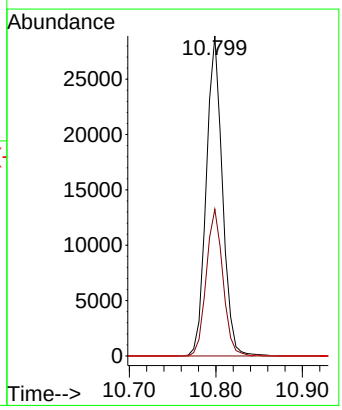
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

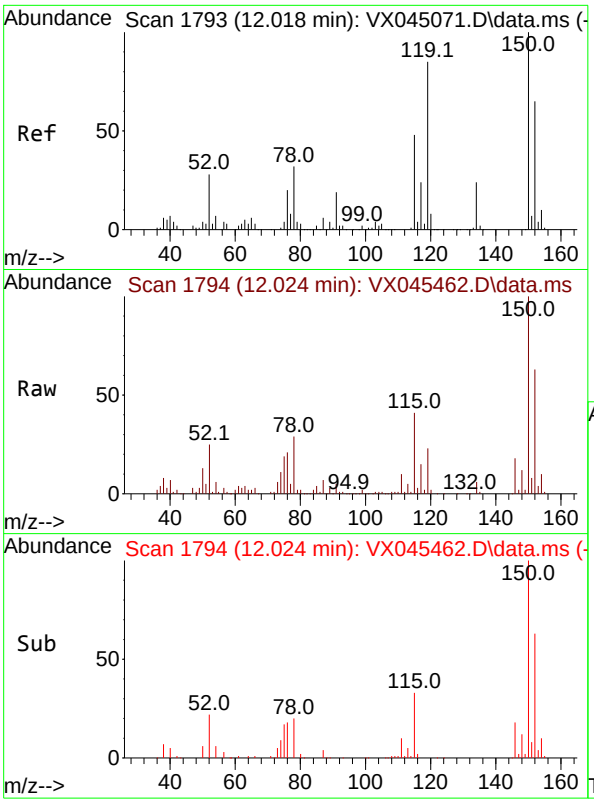


#71
Bromoform
Concen: 54.637 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:173 Resp: 37451

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.6	73.6
254	0.0	0.0	0.0

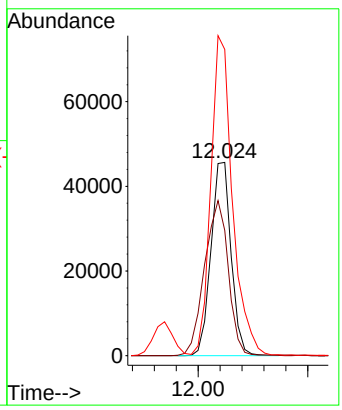




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:152 Resp: 5822

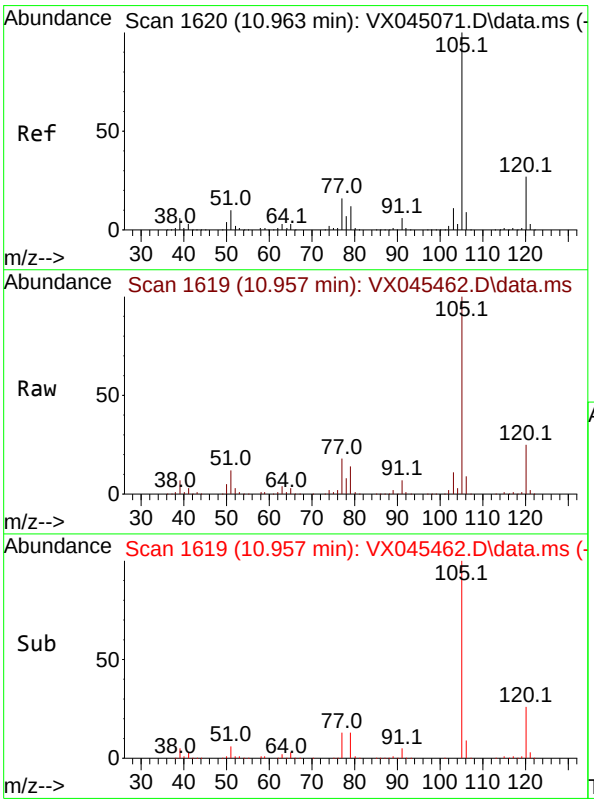
Ion	Ratio	Lower	Upper
152	100		
115	94.6	44.2	132.6
150	177.6	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

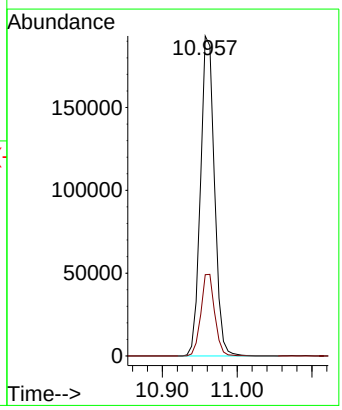
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

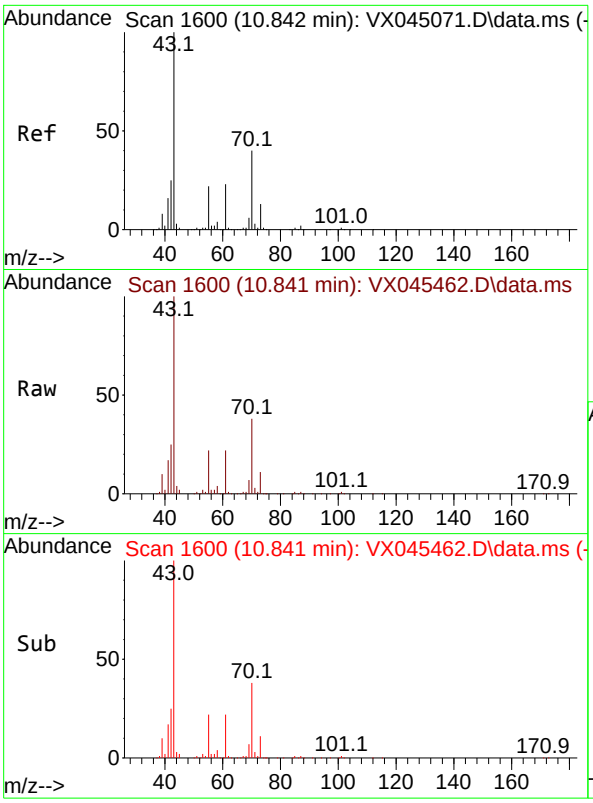


#73
Isopropylbenzene
Concen: 55.108 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:105 Resp: 250437

Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.2	39.5

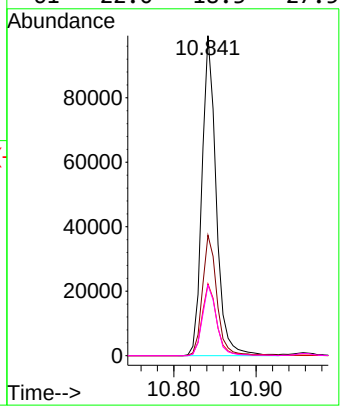




#74
N-amyl acetate
Concen: 55.933 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 11927

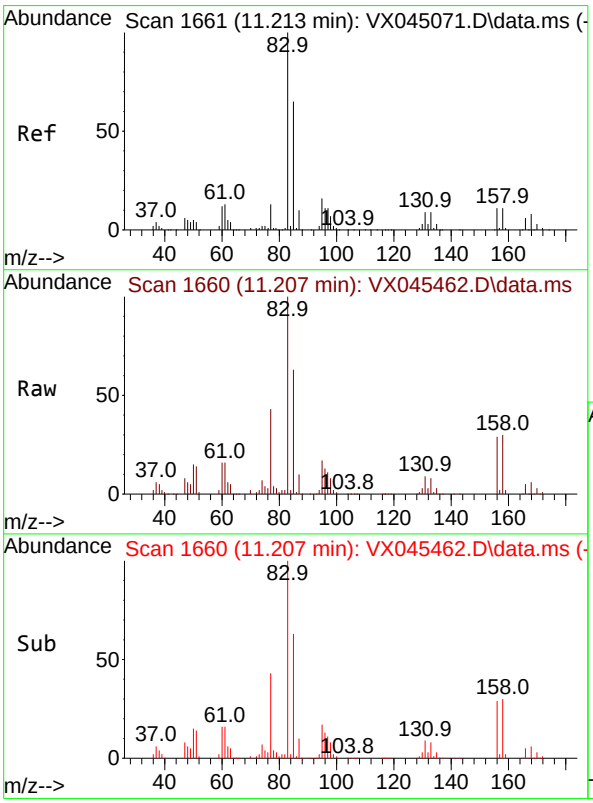
Ion	Ratio	Lower	Upper
43	100		
70	38.5	31.8	47.6
55	23.3	18.3	27.5
61	22.0	18.3	27.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

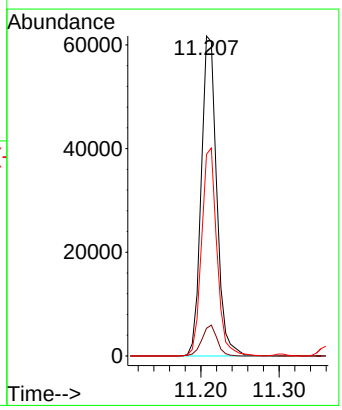
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

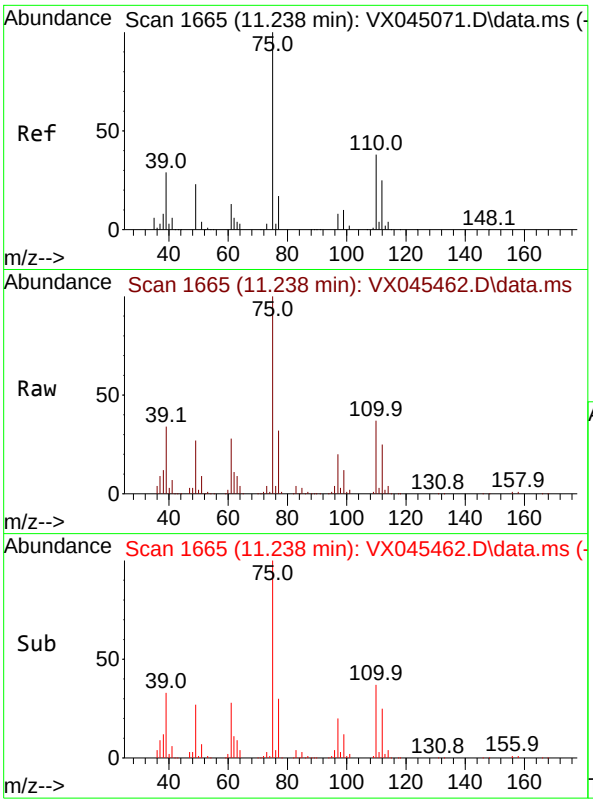


#75
1,1,2,2-Tetrachloroethane
Concen: 50.761 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 83 Resp: 84652

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.5	13.4
85	64.3	31.7	95.1





#76
1,2,3-Trichloropropane
Concen: 51.994 ug/l m
RT: 11.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

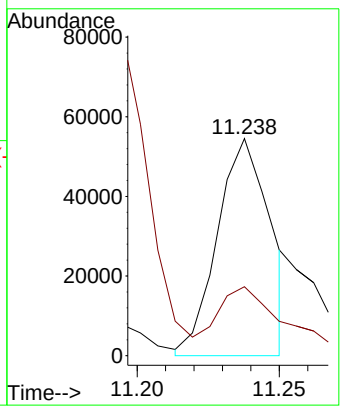
Tgt Ion: 75 Resp: 7045

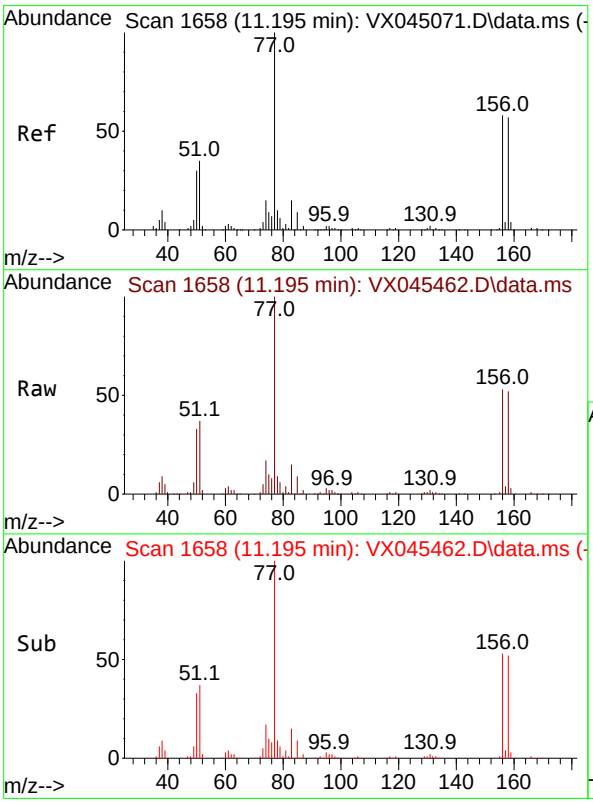
Ion	Ratio	Lower	Upper
75	100		
77	41.0	20.7	62.1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

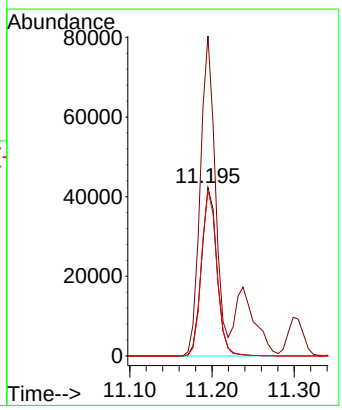


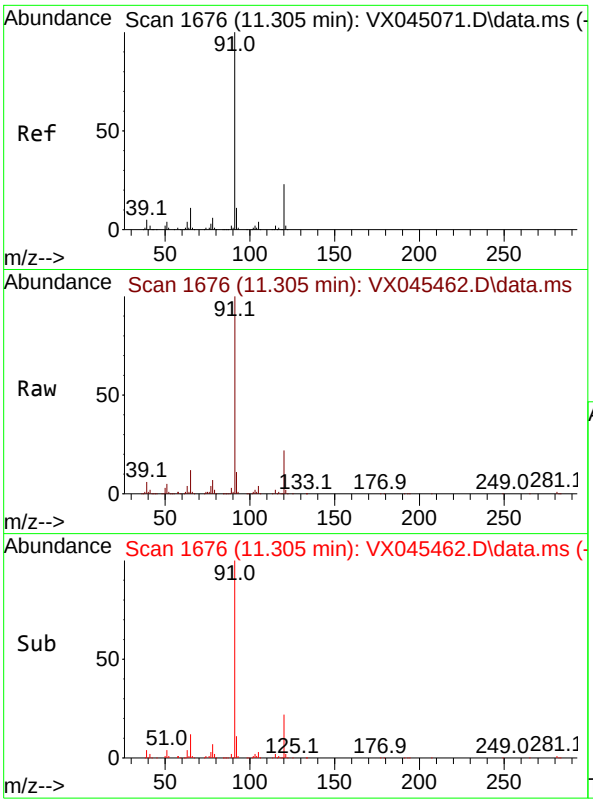


#77
Bromobenzene
Concen: 51.444 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:156 Resp: 55160

Ion	Ratio	Lower	Upper
156	100		
77	184.8	85.8	257.4
158	98.7	48.4	145.2





#78
n-propylbenzene
Concen: 57.219 ug/l
RT: 11.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

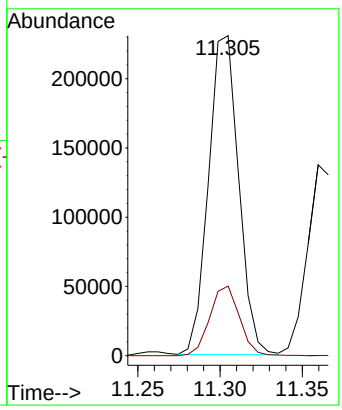
Tgt Ion: 91 Resp: 29373

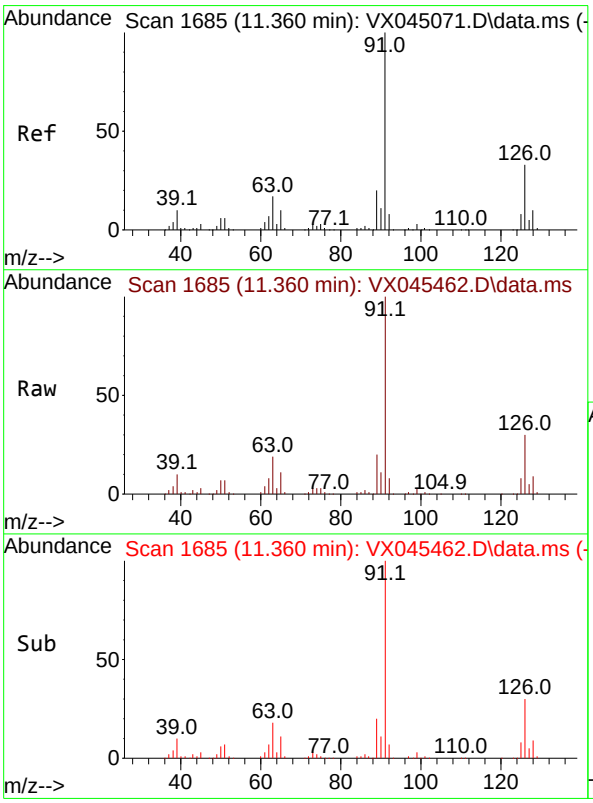
Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.2	33.6

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

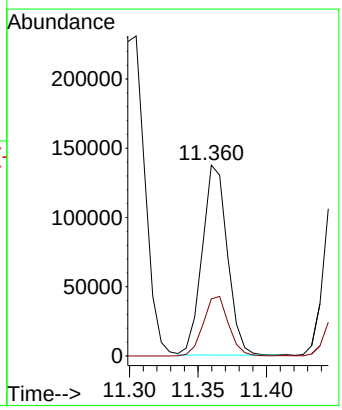


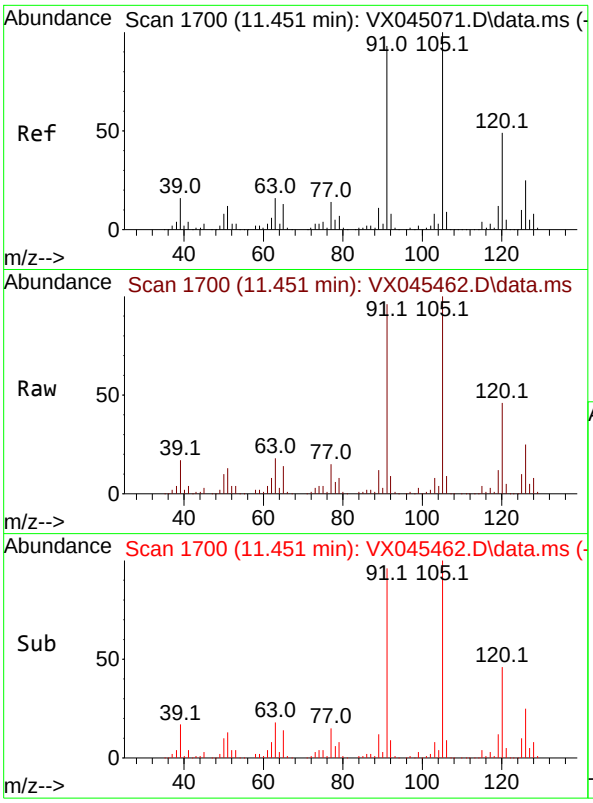


#79
2-Chlorotoluene
Concen: 53.691 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 91 Resp: 175537

Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.4	49.4





#80
1,3,5-Trimethylbenzene
Concen: 56.177 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

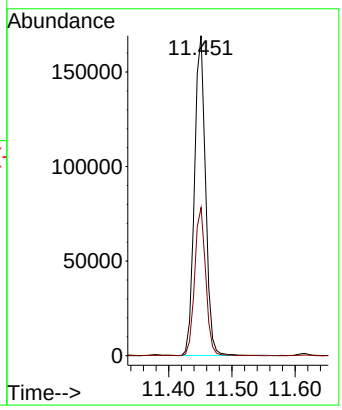
Tgt Ion:105 Resp: 20642

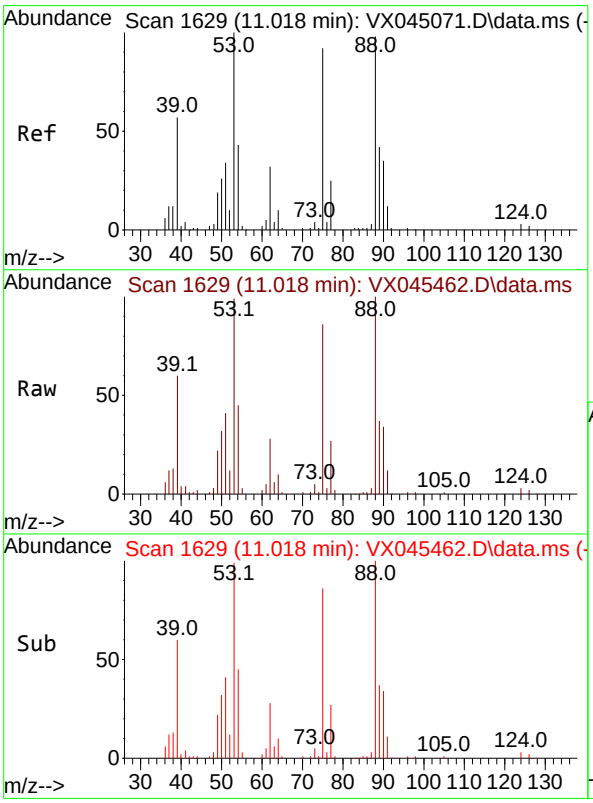
Ion	Ratio	Lower	Upper
105	100		
120	46.2	24.1	72.2

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

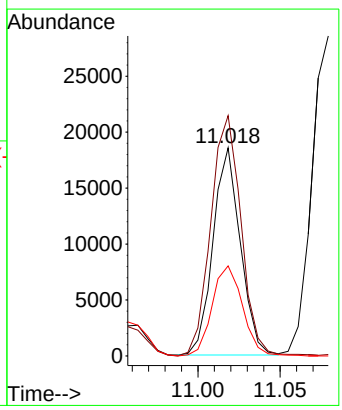


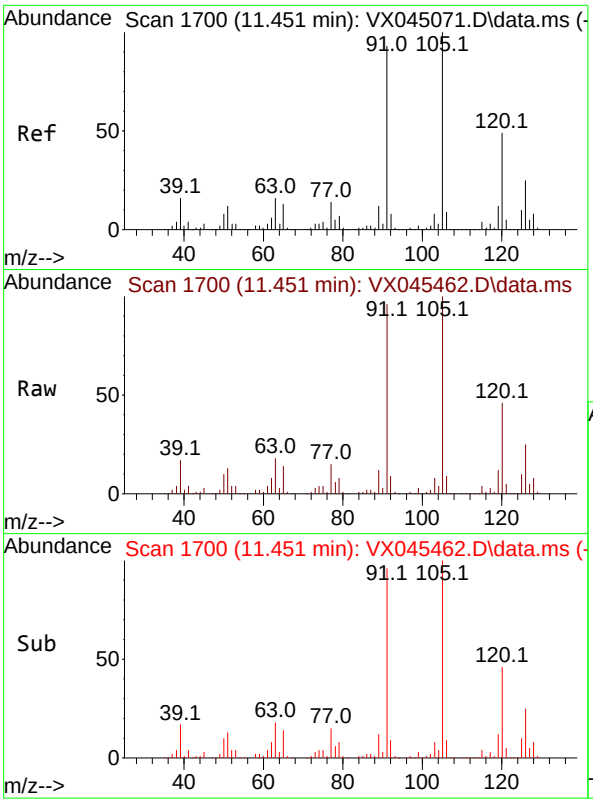


#81
trans-1,4-Dichloro-2-butene
Concen: 54.092 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 75 Resp: 21420

Ion	Ratio	Lower	Upper
75	100		
53	128.6	88.5	132.7
89	48.4	36.2	54.4





#82
4-Chlorotoluene
Concen: 56.323 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

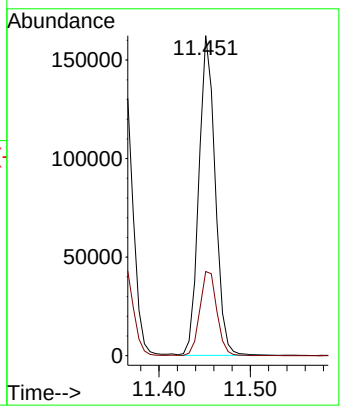
Tgt Ion: 91 Resp: 20069

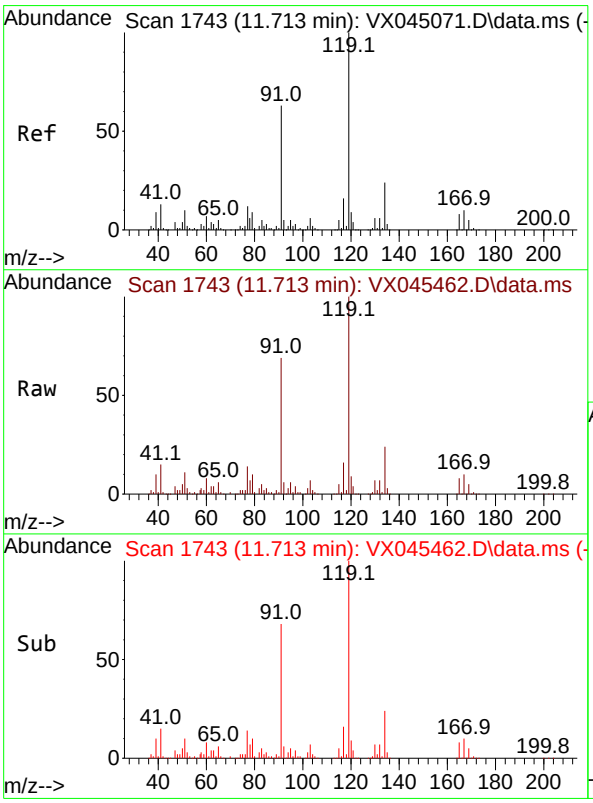
Ion	Ratio	Lower	Upper
91	100		
126	27.6	14.1	42.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

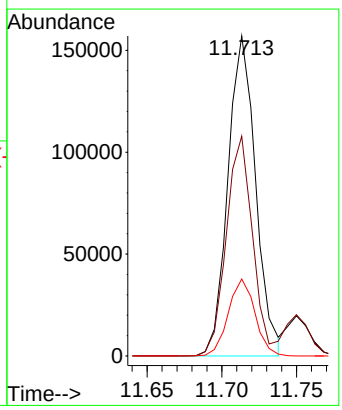


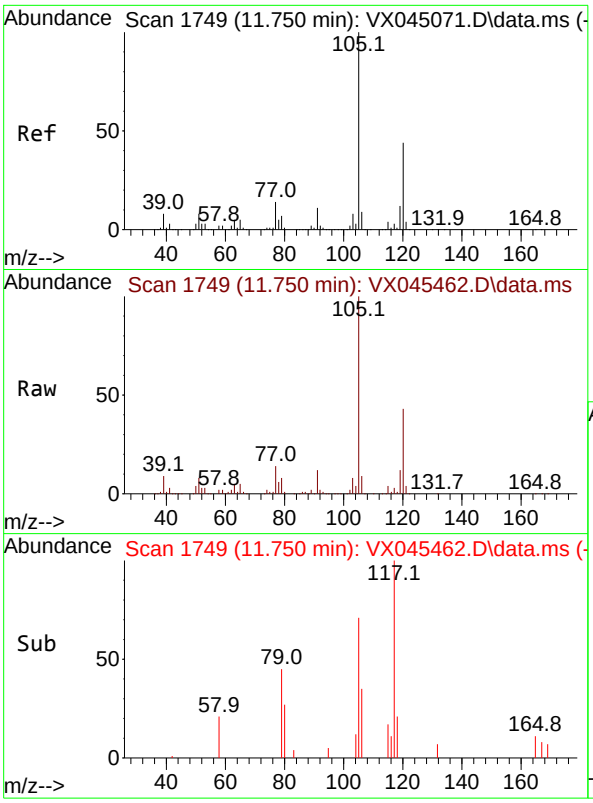


#83
tert-Butylbenzene
Concen: 53.652 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:119 Resp: 202565

Ion	Ratio	Lower	Upper
119	100		
91	65.7	30.7	92.1
134	23.2	11.7	35.0

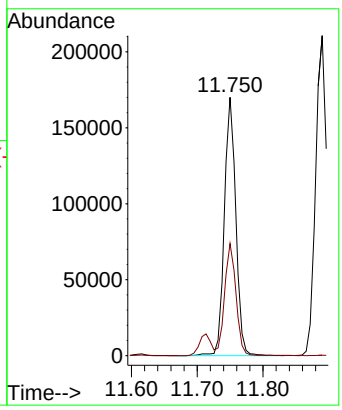




#84
1,2,4-Trimethylbenzene
Concen: 55.934 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:105 Resp: 20680

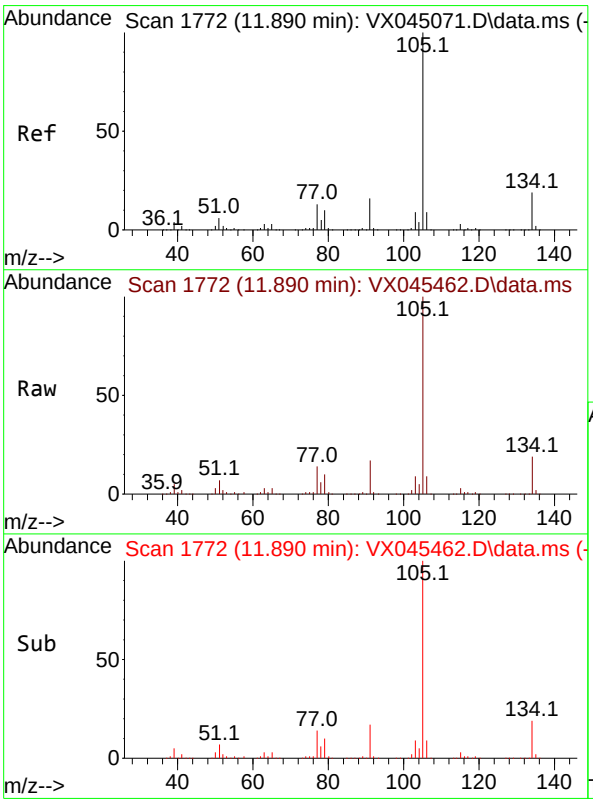
Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.1	66.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

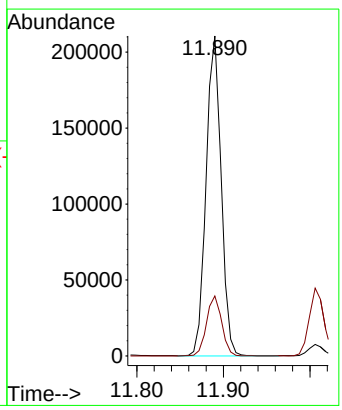
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

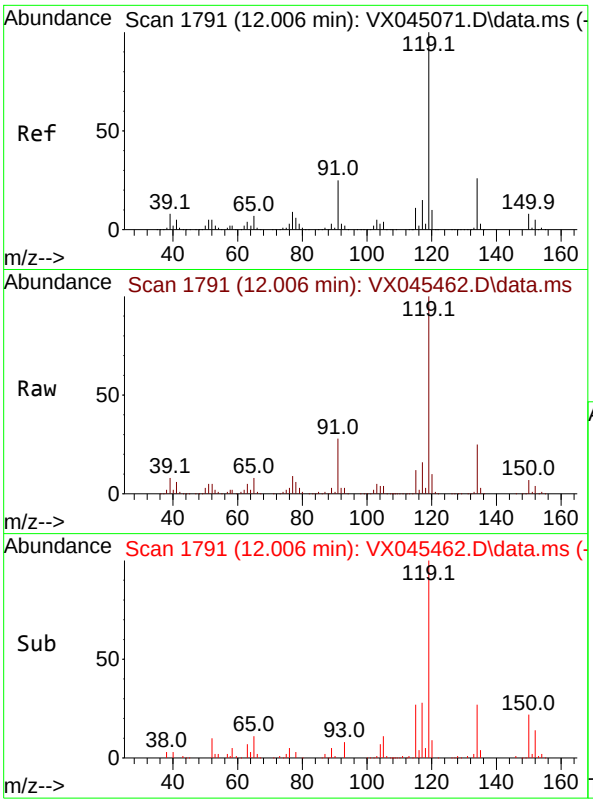


#85
sec-Butylbenzene
Concen: 56.298 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:105 Resp: 254610

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.4





#86
p-Isopropyltoluene
Concen: 56.955 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

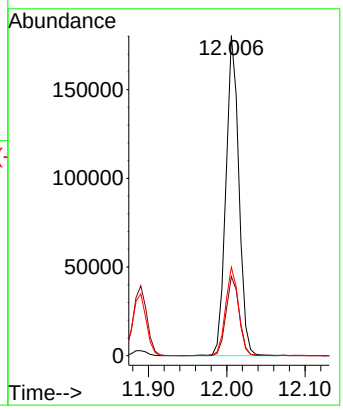
Tgt Ion:119 Resp: 20816

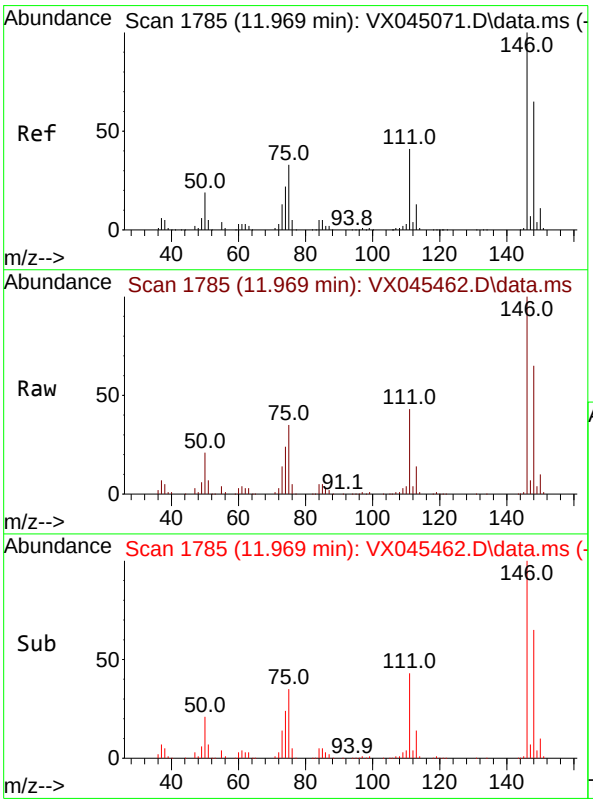
Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.9	38.6
91	27.5	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

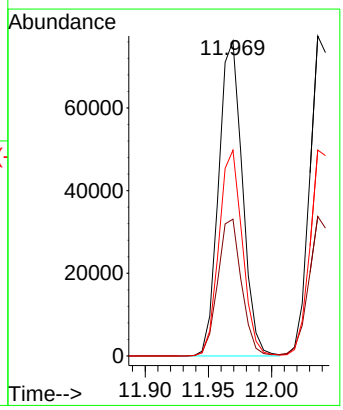


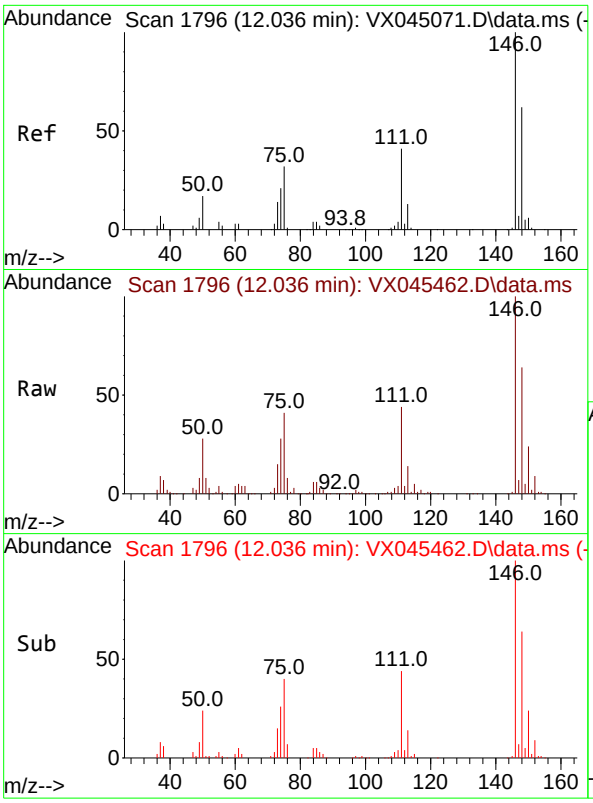


#87
1,3-Dichlorobenzene
Concen: 52.049 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:146 Resp: 99559

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.1	63.4
148	64.5	31.9	95.7

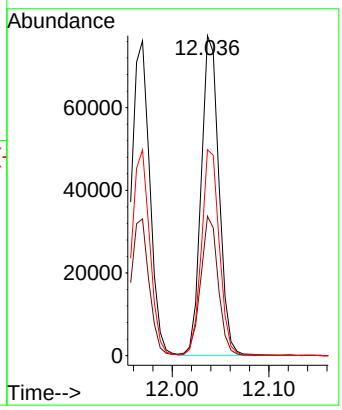




#88
1,4-Dichlorobenzene
Concen: 51.163 ug/l
RT: 12.036 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:146 Resp: 9901

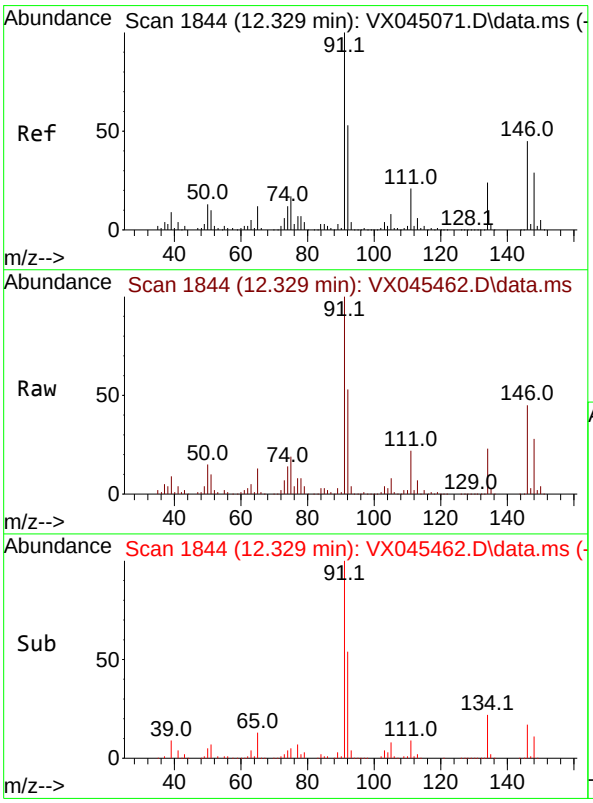
Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.2	60.5
148	64.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

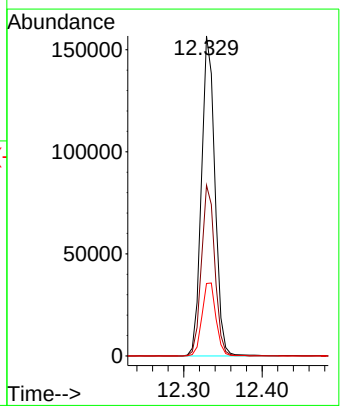
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

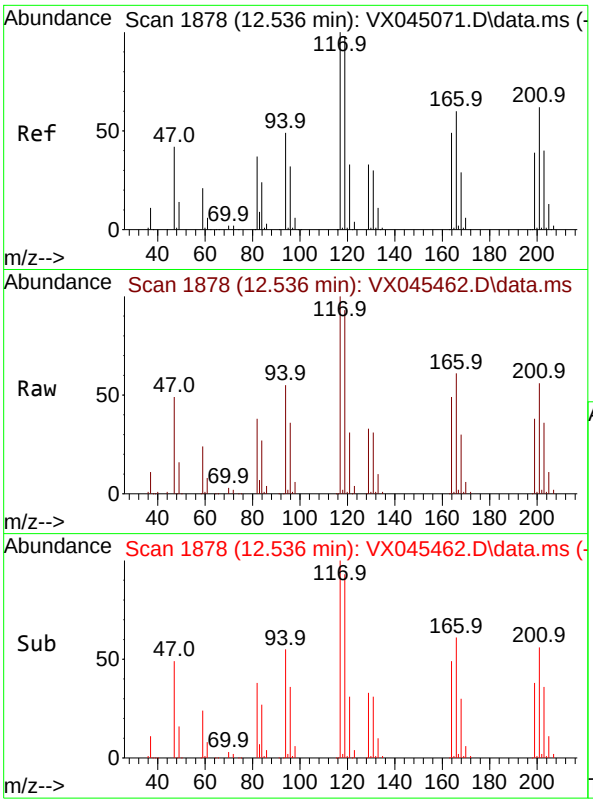


#89
n-Butylbenzene
Concen: 59.401 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 91 Resp: 186985

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.7	80.0
134	23.7	12.2	36.6

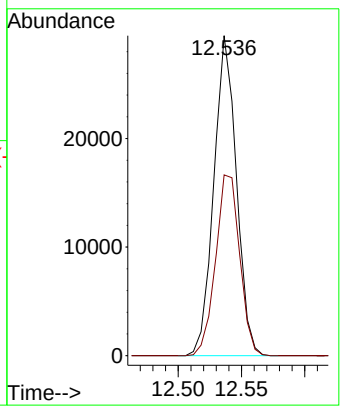




#90
Hexachloroethane
Concen: 55.214 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:117 Resp: 3650

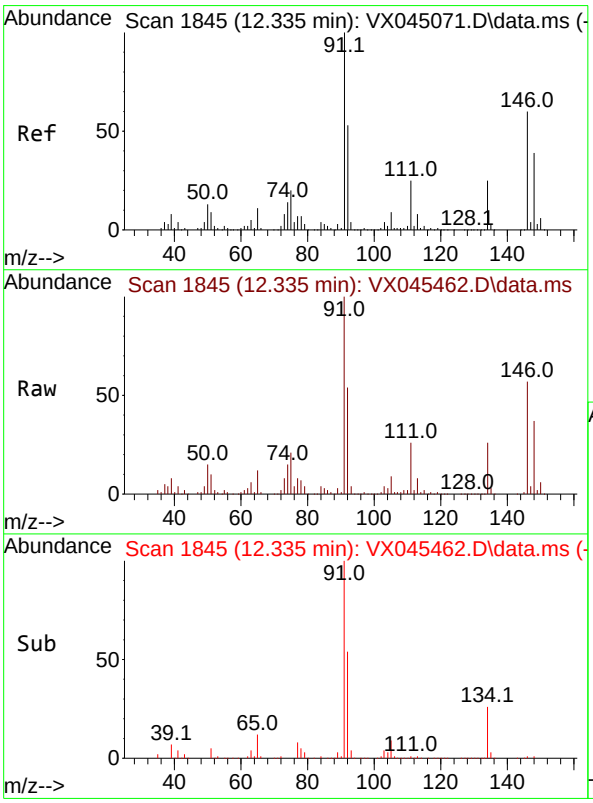
Ion	Ratio	Lower	Upper
117	100		
201	60.4	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

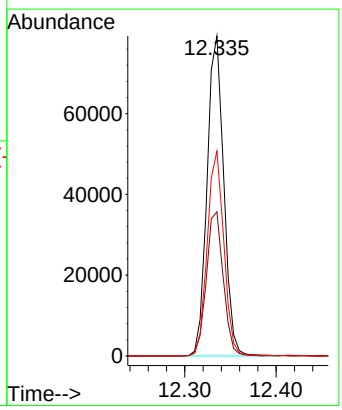
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

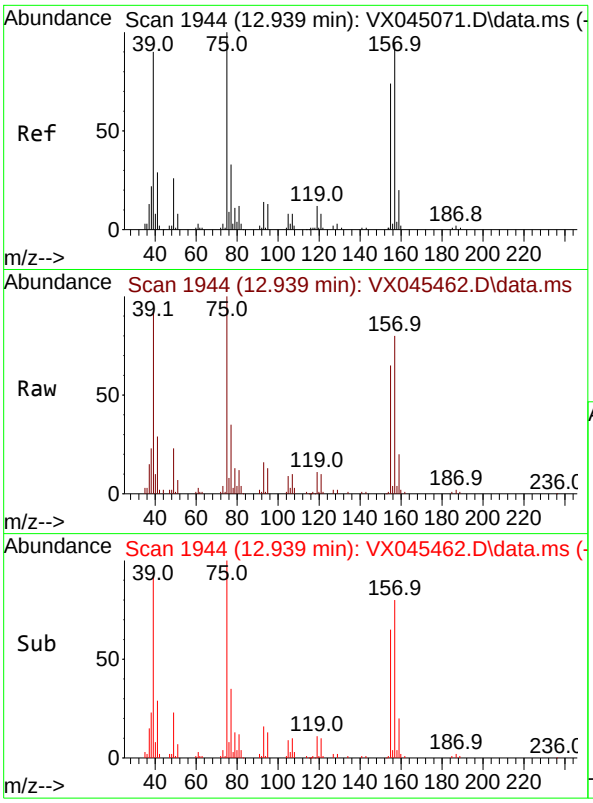


#91
1,2-Dichlorobenzene
Concen: 52.215 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:146 Resp: 100191

Ion	Ratio	Lower	Upper
146	100		
111	45.7	21.6	65.0
148	63.7	31.9	95.9





#92
1,2-Dibromo-3-Chloropropane
Concen: 58.851 ug/l
RT: 12.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

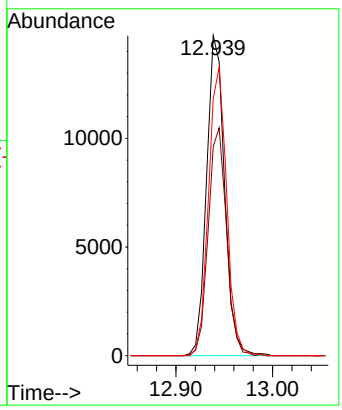
Tgt Ion: 75 Resp: 1912

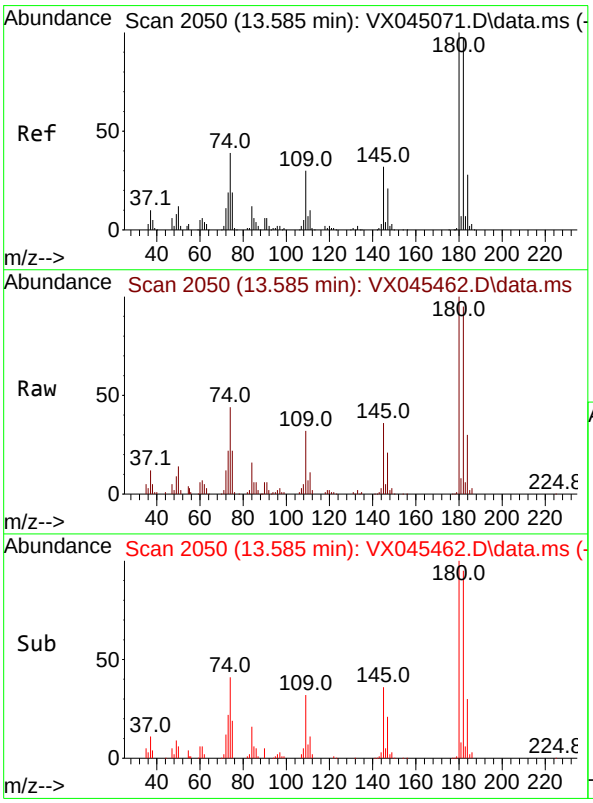
Ion	Ratio	Lower	Upper
75	100		
155	71.8	39.6	118.7
157	90.7	51.1	153.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

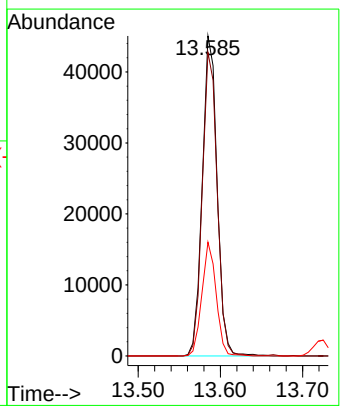


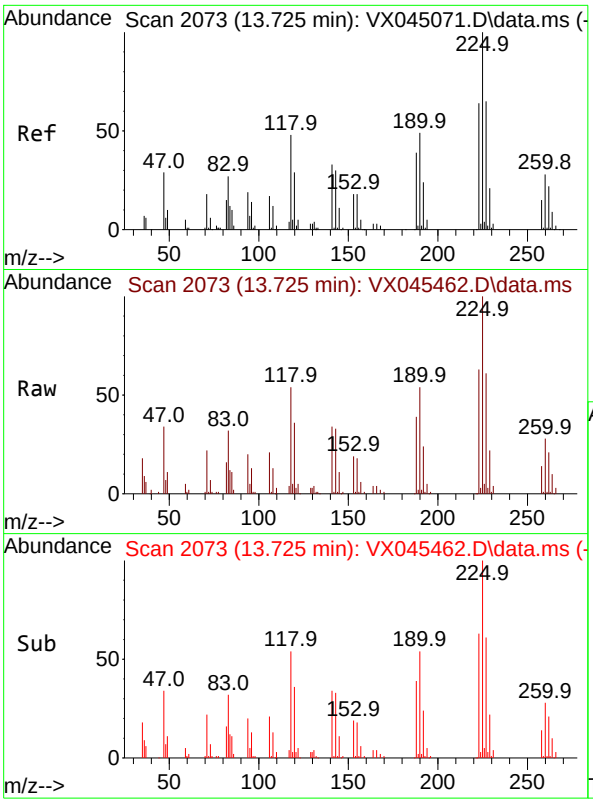


#93
1,2,4-Trichlorobenzene
Concen: 51.723 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:180 Resp: 56512

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.9
145	34.2	16.3	48.9

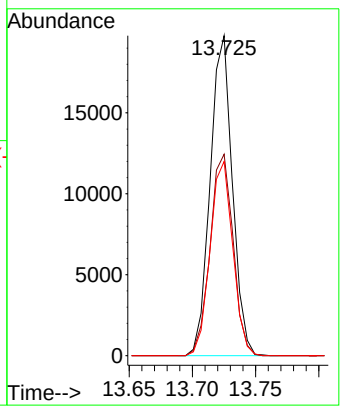




#94
Hexachlorobutadiene
Concen: 53.744 ug/l
RT: 13.725 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:225 Resp: 2407

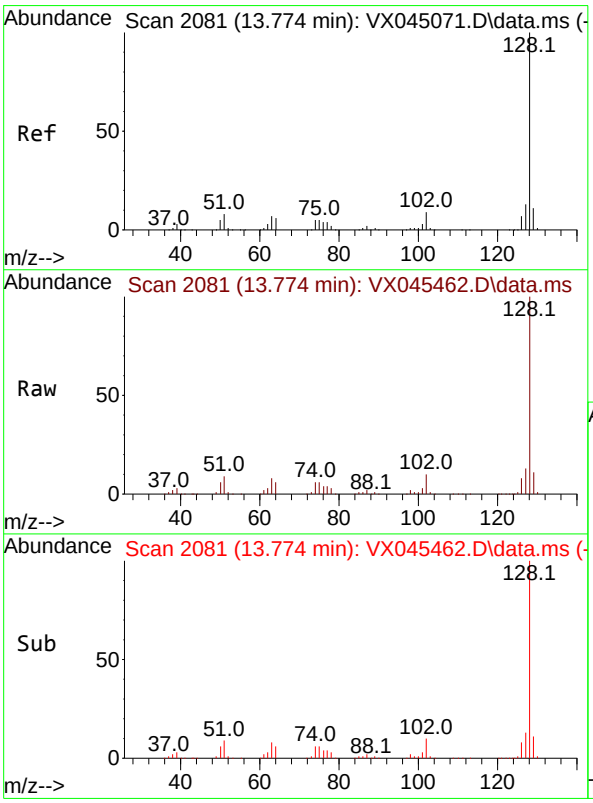
Ion	Ratio	Lower	Upper
225	100		
223	65.4	31.9	95.7
227	62.1	31.4	94.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

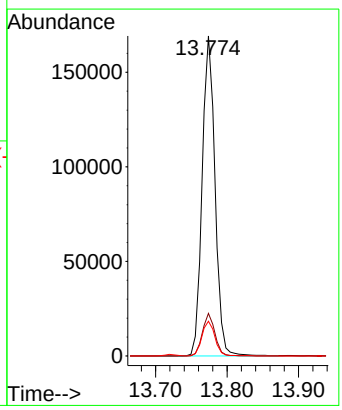
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

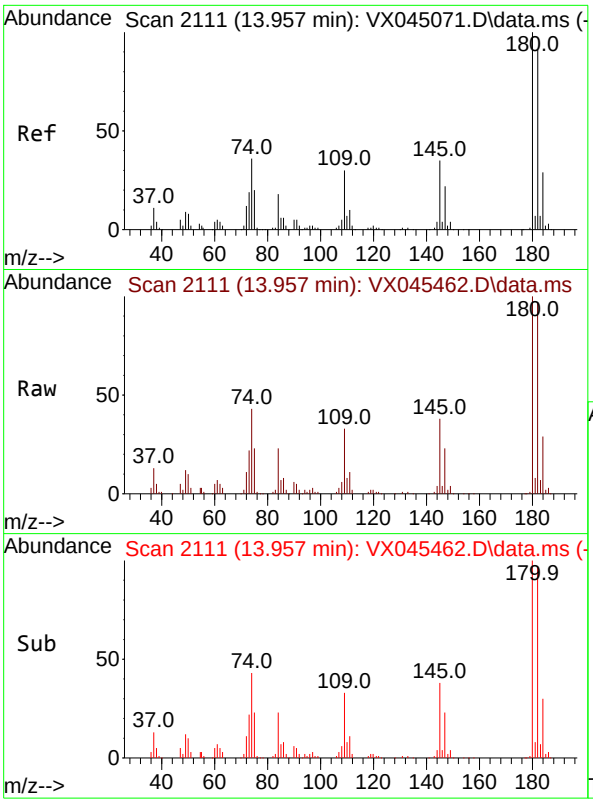


#95
Naphthalene
Concen: 50.432 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:128 Resp: 211704

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.0	8.7	13.1

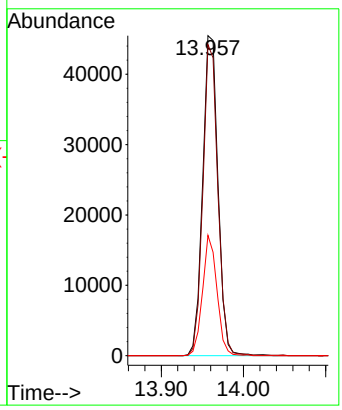




#96
1,2,3-Trichlorobenzene
Concen: 51.264 ug/l
RT: 13.957 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:180 Resp: 5908

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.5	142.6
145	35.3	17.0	50.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320MSD	SDG No.:	Q1629
Lab Sample ID:	Q1629-05MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045468.D	1		03/26/25 14:29	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	65.0		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	55.3		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	52.1		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	59.9		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	54.7		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	57.1		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	63.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	57.1		0.23	0.75	1.00	ug/L
67-64-1	Acetone	300		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	52.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	58.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	51.2		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	55.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	57.5		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	57.7		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	58.0		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	310		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	61.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	56.9		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	49.6		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	59.6		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	62.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	61.0		0.16	0.50	1.00	ug/L
71-43-2	Benzene	56.5		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	64.8		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	60.4		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	56.8		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	61.0		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	320		0.68	2.50	5.00	ug/L
108-88-3	Toluene	59.1		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320MSD	SDG No.:	Q1629
Lab Sample ID:	Q1629-05MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045468.D	1		03/26/25 14:29	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	64.7		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	63.1		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	57.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	330		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	61.7		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	59.5		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	56.7		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	58.3		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	59.8		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	120		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	58.7		0.12	0.50	1.00	ug/L
100-42-5	Styrene	60.9		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	60.5		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	58.0		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	56.0		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	54.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	56.8		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	64.5		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	55.8		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	54.6		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.5	*	85 - 114		115%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	78200	5.55				
540-36-3	1,4-Difluorobenzene	142000	6.757				
3114-55-4	Chlorobenzene-d5	126000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	58600	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	TT188S1-20250320MSD	SDG No.:	Q1629
Lab Sample ID:	Q1629-05MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045468.D	1		03/26/25 14:29	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	78228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	141777	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	126420	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	70110	56.344	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.680%			
35) Dibromofluoromethane	5.379	113	50243	52.997	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.000%			
50) Toluene-d8	8.647	98	172507	50.192	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.380%			
62) 4-Bromofluorobenzene	11.079	95	65522	57.531	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 115.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	63976	64.970	ug/l	96
3) Chloromethane	1.307	50	66586	55.255	ug/l	98
4) Vinyl Chloride	1.374	62	62230	52.056	ug/l	98
5) Bromomethane	1.593	94	28172	59.947	ug/l	98
6) Chloroethane	1.660	64	30146	54.671	ug/l	97
7) Trichlorofluoromethane	1.868	101	90306	57.064	ug/l	98
8) Diethyl Ether	2.136	74	30648	49.512	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.313	101	57678	63.438	ug/l	98
10) Methyl Iodide	2.441	142	71045	62.527	ug/l	95
11) Tert butyl alcohol	2.989	59	65545	278.091	ug/l	98
12) 1,1-Dichloroethene	2.307	96	54875	57.087	ug/l	90
13) Acrolein	2.239	56	68260	250.534	ug/l	99
14) Allyl chloride	2.654	41	104862	61.284	ug/l	94
15) Acrylonitrile	3.062	53	182139	288.335	ug/l	98
16) Acetone	2.386	43	174752	302.689	ug/l	95
17) Carbon Disulfide	2.502	76	134555	52.555	ug/l	97
18) Methyl Acetate	2.703	43	71126	51.211	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	188109	58.328	ug/l	99
20) Methylene Chloride	2.782	84	62947	55.042	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	54567	57.460	ug/l	94
22) Diisopropyl ether	3.764	45	202733	58.258	ug/l	94
23) Vinyl Acetate	3.721	43	846377	291.450	ug/l	99
24) 1,1-Dichloroethane	3.605	63	112537	57.703	ug/l	100
25) 2-Butanone	4.562	43	265671	305.711	ug/l	98
26) 2,2-Dichloropropane	4.471	77	75408	82.434	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	66711	56.906	ug/l	93
28) Bromochloromethane	4.898	49	46062	49.551	ug/l	98
29) Tetrahydrofuran	5.007	42	168372	288.508	ug/l	99
30) Chloroform	5.087	83	115410	59.557	ug/l	98
31) Cyclohexane	5.458	56	98225	58.020	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	97027	61.995	ug/l	97
36) 1,1-Dichloropropene	5.690	75	74241	57.103	ug/l	99
37) Ethyl Acetate	4.715	43	92572	55.257	ug/l	98
38) Carbon Tetrachloride	5.672	117	80831	61.239	ug/l	97
39) Methylcyclohexane	7.373	83	95012	60.989	ug/l	96
40) Benzene	6.031	78	231971	56.503	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	56406	62.268	ug/l		98
42) 1,2-Dichloroethane	6.086	62	95787	64.791	ug/l		96
43) Isopropyl Acetate	6.342	43	146559	59.161	ug/l		99
44) Trichloroethene	7.123	130	58258	60.433	ug/l		98
45) 1,2-Dichloropropane	7.428	63	59906	56.753	ug/l		99
46) Dibromomethane	7.580	93	45521	61.013	ug/l		96
47) Bromodichloromethane	7.818	83	89304	61.024	ug/l		99
48) Methyl methacrylate	7.690	41	80811	65.022	ug/l		94
49) 1,4-Dioxane	7.659	88	32939	1256.441	ug/l		94
51) 4-Methyl-2-Pentanone	8.574	43	525454	315.900	ug/l		99
52) Toluene	8.714	92	142393	59.114	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	79170	64.712	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	89949	63.050	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	57314	57.798	ug/l		97
56) Ethyl methacrylate	9.116	69	96679	64.139	ug/l		93
57) 1,3-Dichloropropane	9.305	76	101131	58.931	ug/l		100
59) 2-Hexanone	9.433	43	392557	325.728	ug/l		98
60) Dibromochloromethane	9.519	129	63988	61.714	ug/l		99
61) 1,2-Dibromoethane	9.610	107	58855	59.453	ug/l		99
64) Tetrachloroethene	9.269	164	45897	56.686	ug/l		97
65) Chlorobenzene	10.079	112	156019	58.324	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	52764	59.230	ug/l		96
67) Ethyl Benzene	10.189	91	278593	59.770	ug/l		97
68) m/p-Xylenes	10.299	106	202838	118.876	ug/l		94
69) o-Xylene	10.640	106	101021	58.702	ug/l		96
70) Styrene	10.653	104	169533	60.884	ug/l		97
71) Bromoform	10.799	173	40637	60.492	ug/l	#	100
73) Isopropylbenzene	10.957	105	265519	58.007	ug/l		98
74) N-amyl acetate	10.842	43	124302	57.873	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	92728	55.205	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	76738m	56.221	ug/l		
77) Bromobenzene	11.195	156	59315	54.922	ug/l		94
78) n-propylbenzene	11.305	91	309849	59.924	ug/l		98
79) 2-Chlorotoluene	11.360	91	188852	57.349	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	222054	59.996	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	23021	57.718	ug/l		86
82) 4-Chlorotoluene	11.451	91	213558	59.504	ug/l		98
83) tert-Butylbenzene	11.713	119	219401	57.694	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	221950	59.599	ug/l		98
85) sec-Butylbenzene	11.890	105	273244	59.984	ug/l		98
86) p-Isopropyltoluene	12.006	119	221416	60.146	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	107816	55.961	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	106898	54.842	ug/l		98
89) n-Butylbenzene	12.329	91	196457	61.962	ug/l		99
90) Hexachloroethane	12.536	117	38979	58.539	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	109816	56.821	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21122	64.546	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	61430	55.821	ug/l		99
94) Hexachlorobutadiene	13.725	225	25376	56.244	ug/l		98
95) Naphthalene	13.774	128	238208	56.338	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	63386	54.598	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

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

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

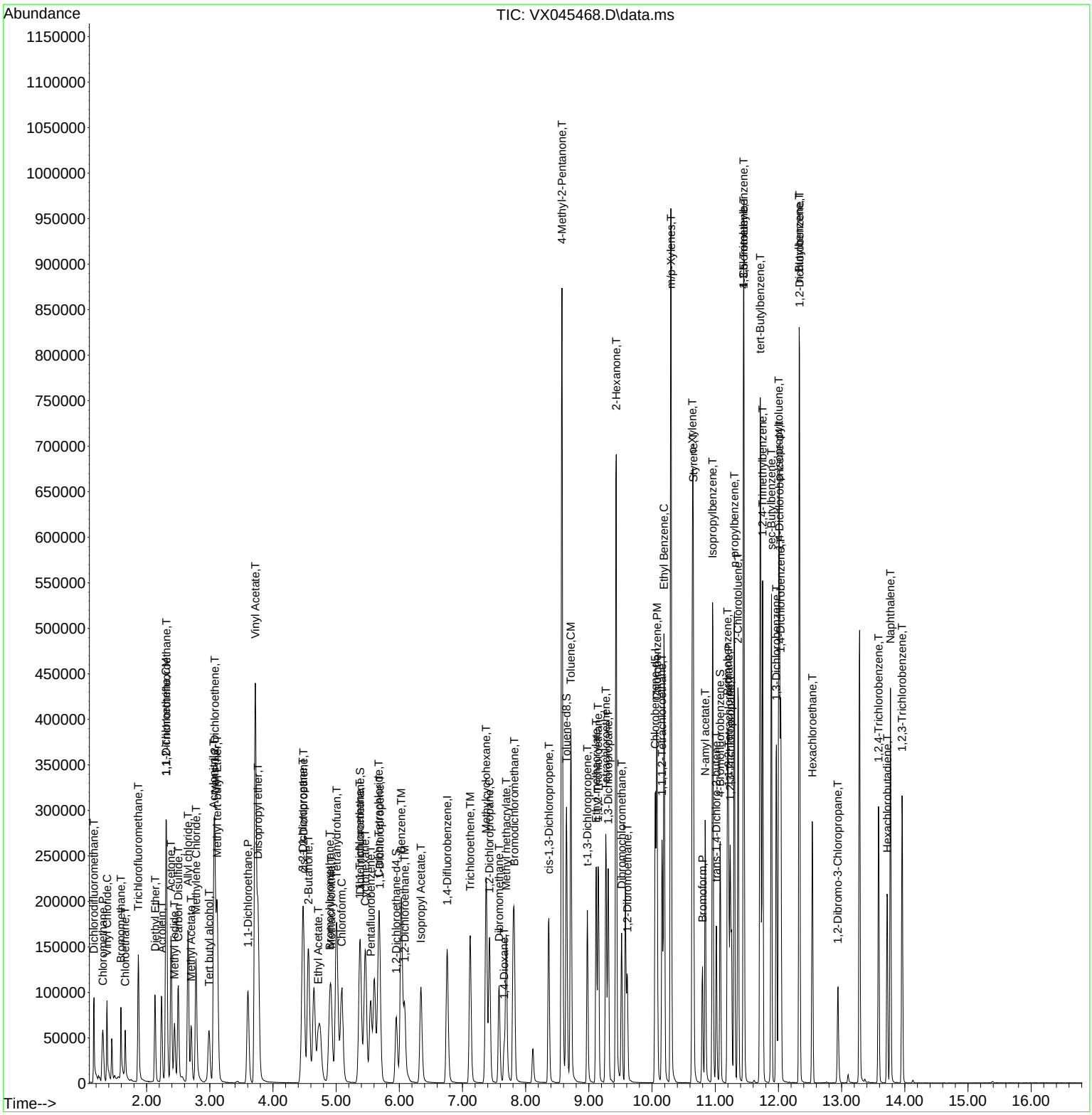
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

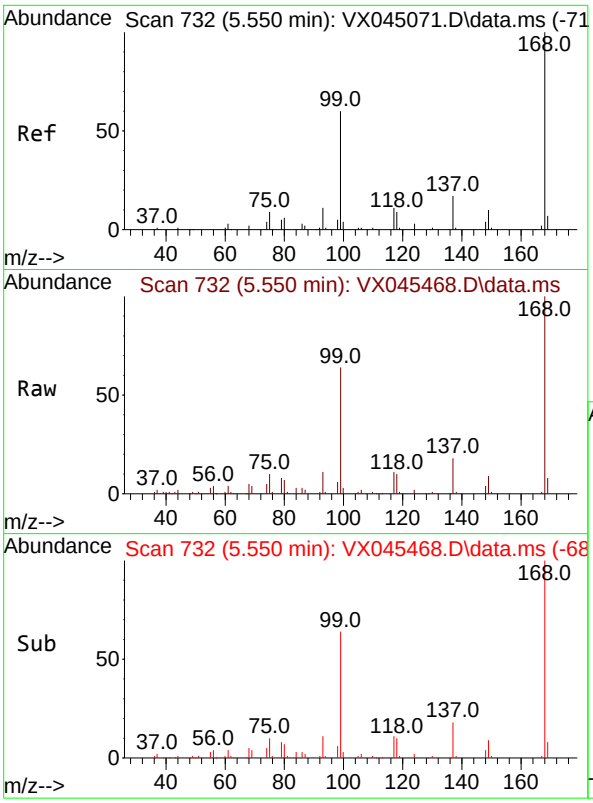
Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

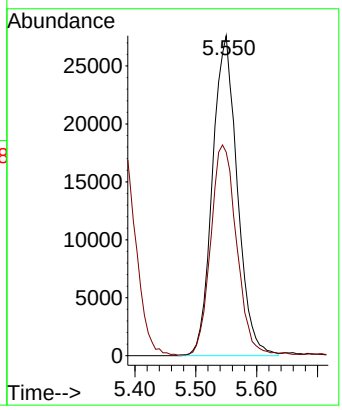




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:168 Resp: 7822

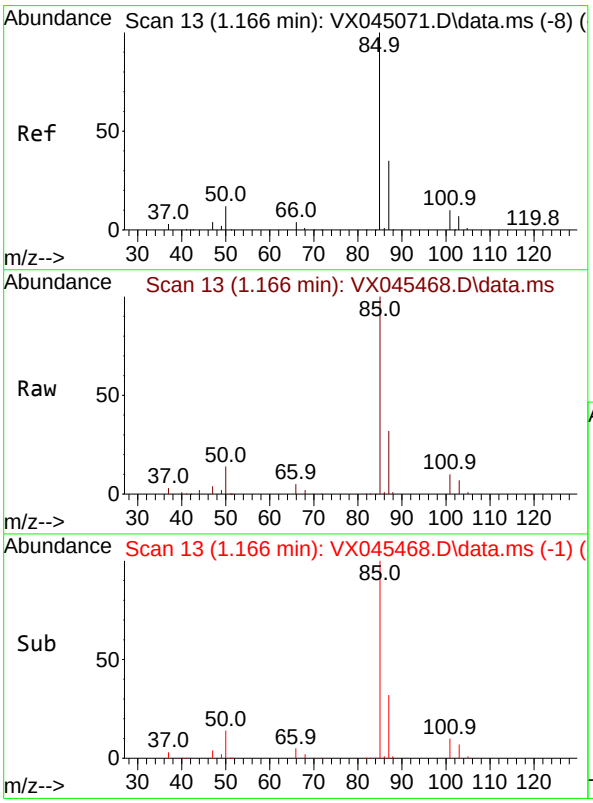
Ion	Ratio	Lower	Upper
168	100		
99	63.4	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

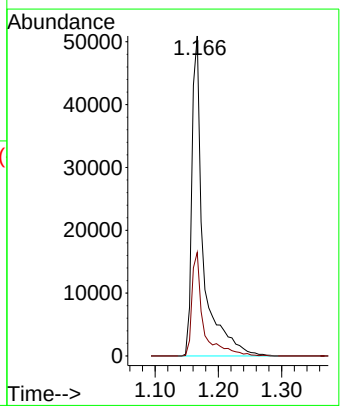
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

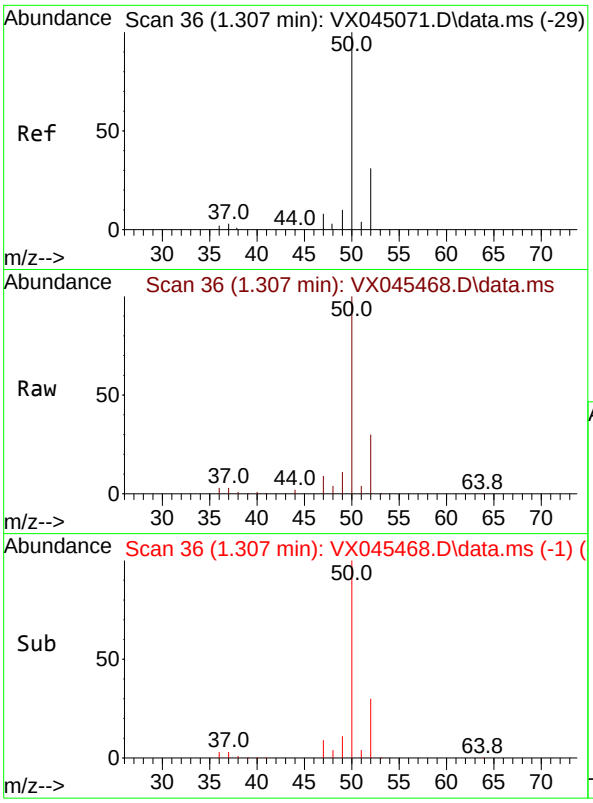


#2
Dichlorodifluoromethane
Concen: 64.970 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 85 Resp: 63976

Ion	Ratio	Lower	Upper
85	100		
87	32.3	17.4	52.3

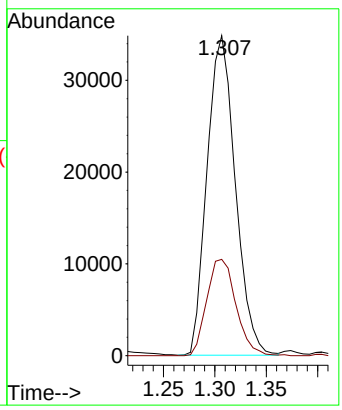




#3
Chloromethane
Concen: 55.255 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 50 Resp: 6658

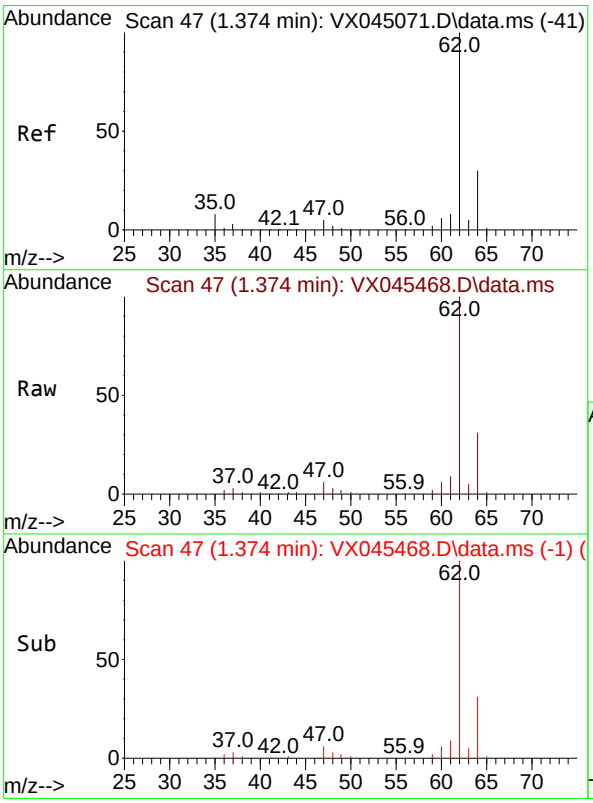
Ion	Ratio	Lower	Upper
50	100		
52	30.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

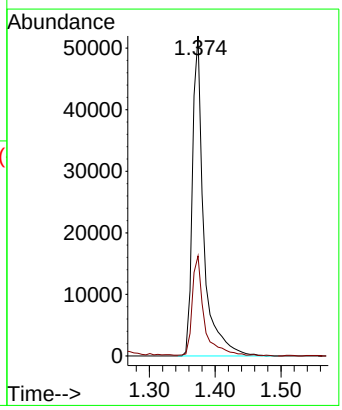
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

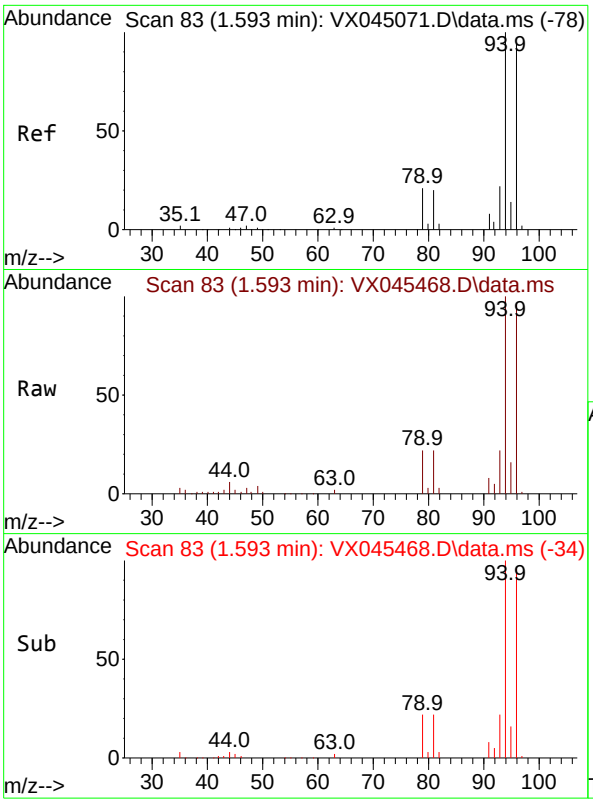


#4
Vinyl Chloride
Concen: 52.056 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 62 Resp: 62230

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.3	36.5

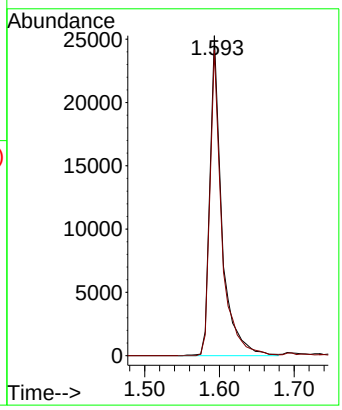




#5
Bromomethane
Concen: 59.947 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 94 Resp: 2817

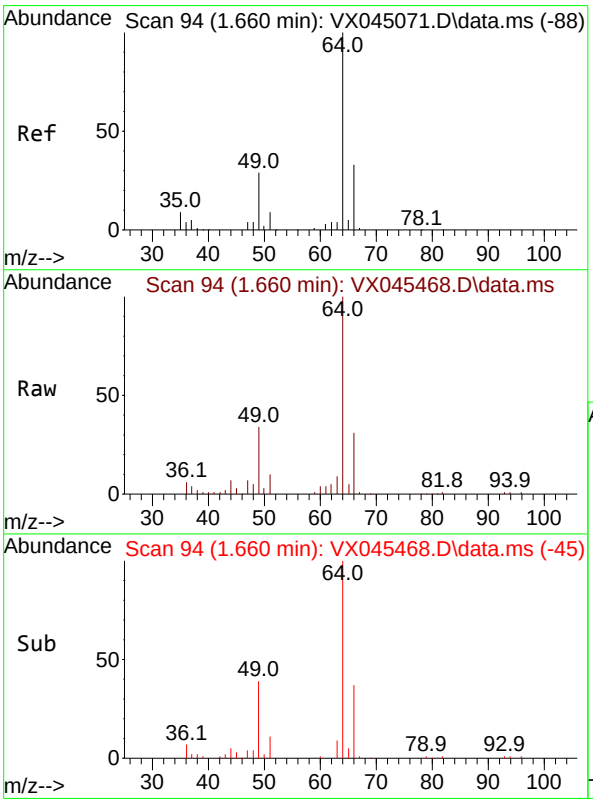
Ion	Ratio	Lower	Upper
94	100		
96	95.6	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

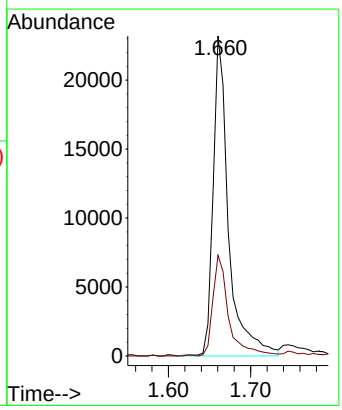
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

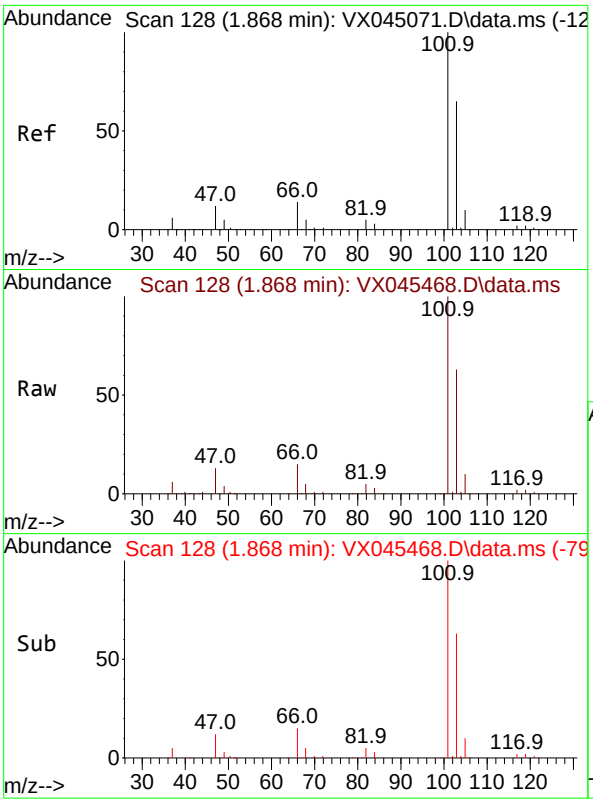


#6
Chloroethane
Concen: 54.671 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 64 Resp: 30146

Ion	Ratio	Lower	Upper
64	100		
66	31.4	26.7	40.1

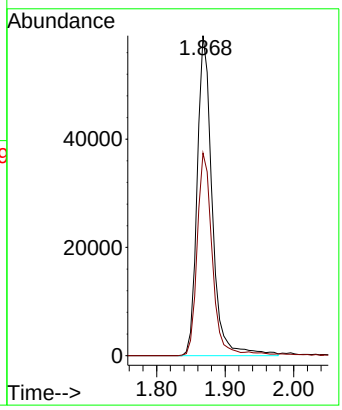




#7
Trichlorofluoromethane
Concen: 57.064 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:101 Resp: 9030

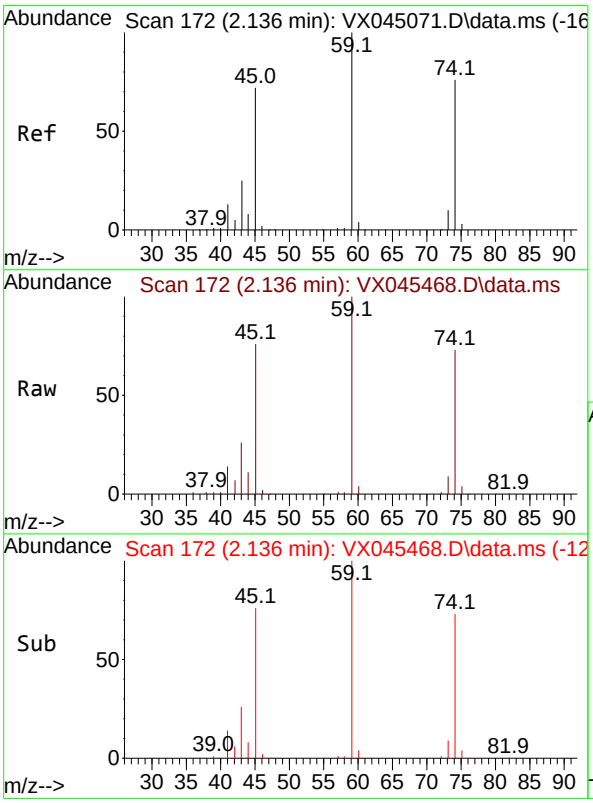
Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

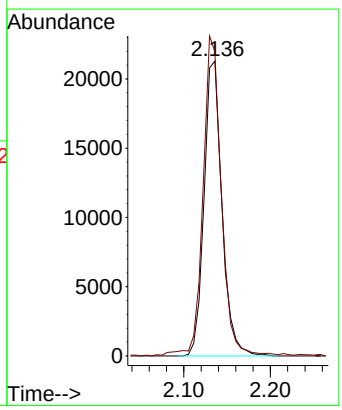
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

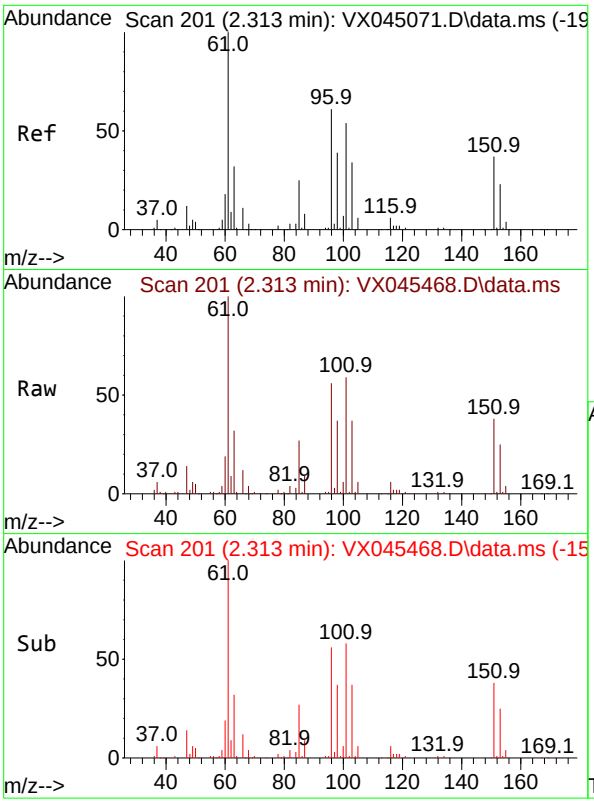


#8
Diethyl Ether
Concen: 49.512 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 74 Resp: 30648

Ion	Ratio	Lower	Upper
74	100		
45	111.1	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 63.438 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

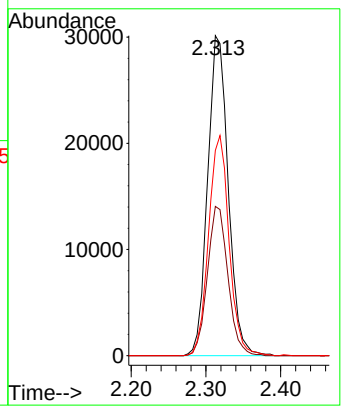
Tgt Ion:101 Resp: 5767

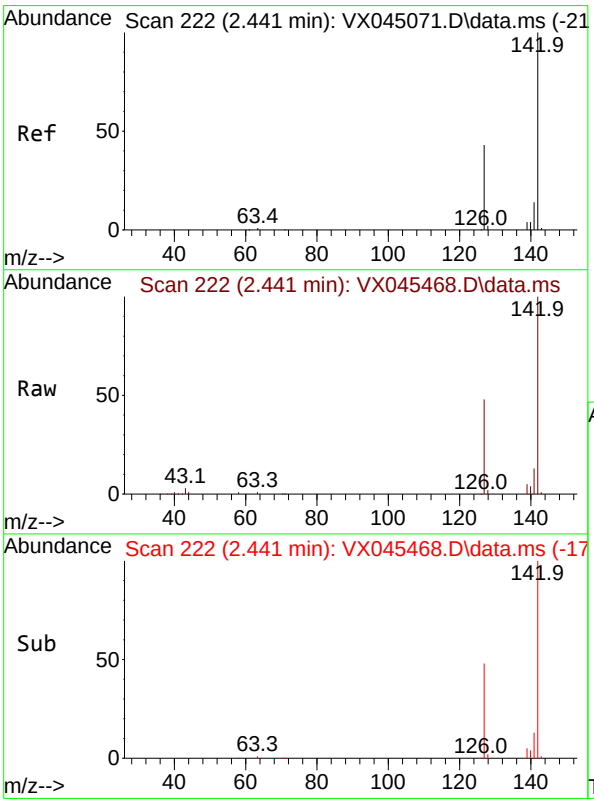
Ion	Ratio	Lower	Upper
101	100		
85	46.6	36.2	54.4
151	68.6	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

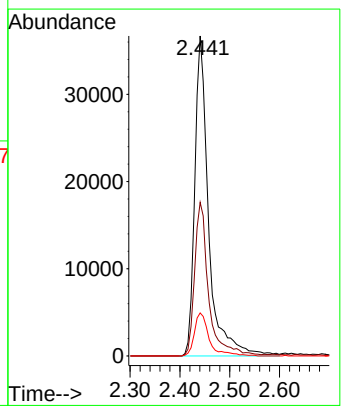


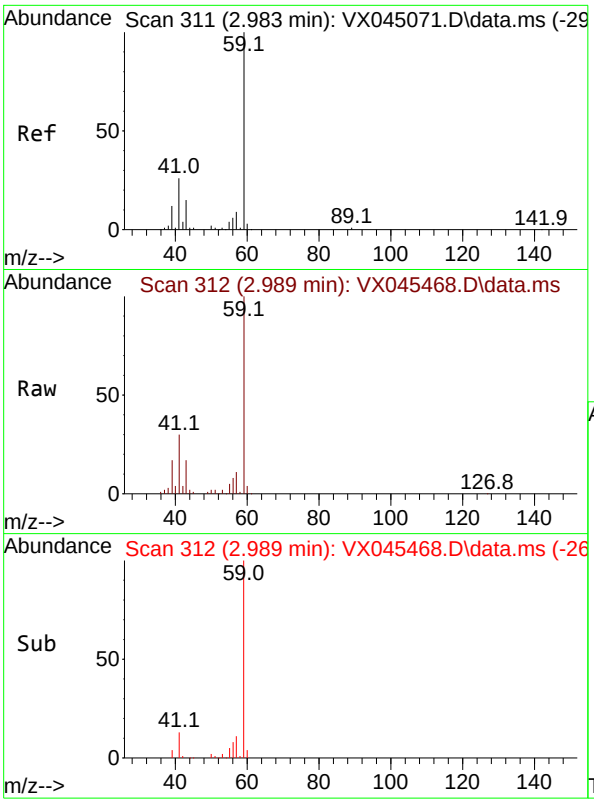


#10
Methyl Iodide
Concen: 62.527 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:142 Resp: 71045

Ion	Ratio	Lower	Upper
142	100		
127	48.7	35.4	53.2
141	14.4	11.6	17.4

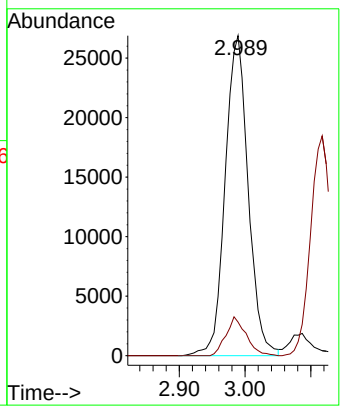




#11
Tert butyl alcohol
Concen: 278.091 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 59 Resp: 6554

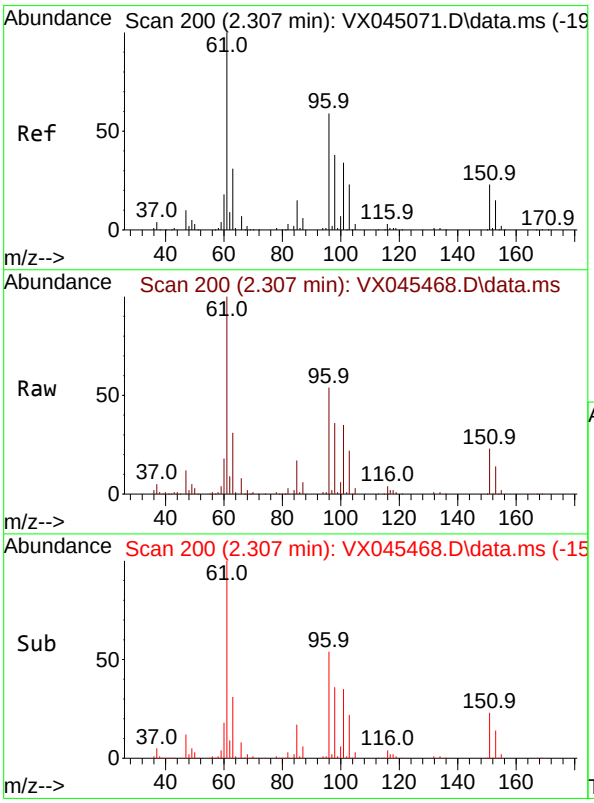
Ion	Ratio	Lower	Upper
59	100		
57	10.7	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

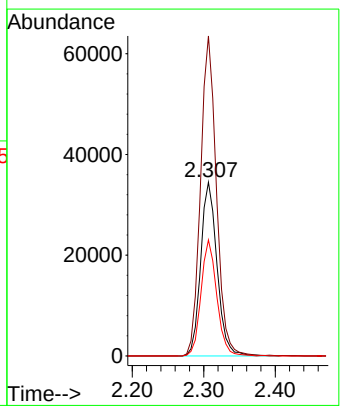
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

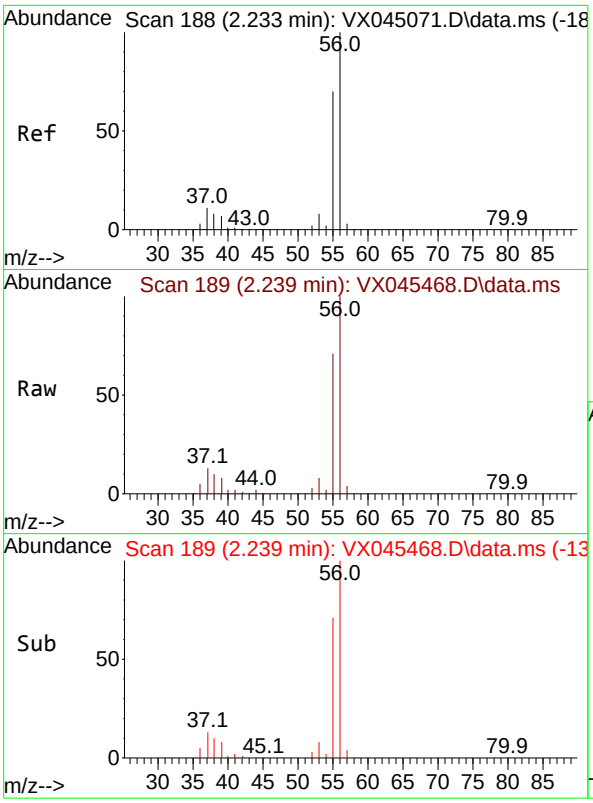


#12
1,1-Dichloroethene
Concen: 57.087 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 96 Resp: 54875

Ion	Ratio	Lower	Upper
96	100		
61	184.2	134.6	202.0
98	66.8	51.0	76.6

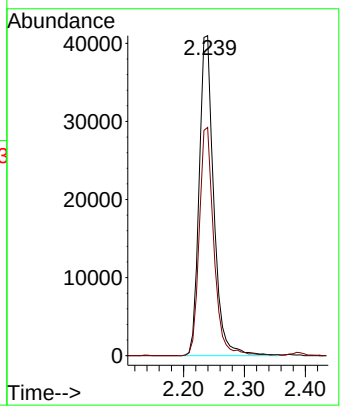




#13
Acrolein
Concen: 250.534 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 56 Resp: 6826

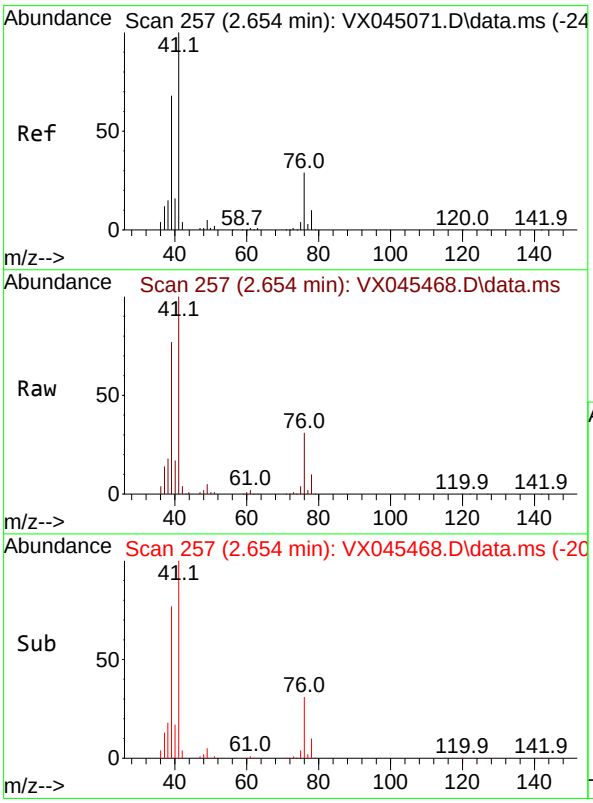
Ion	Ratio	Lower	Upper
56	100		
55	71.5	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

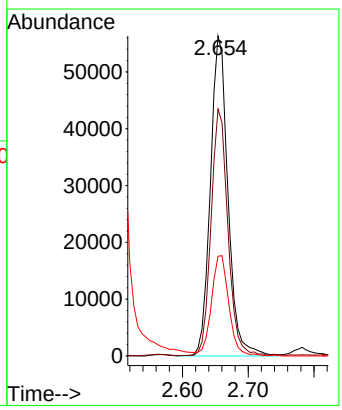
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

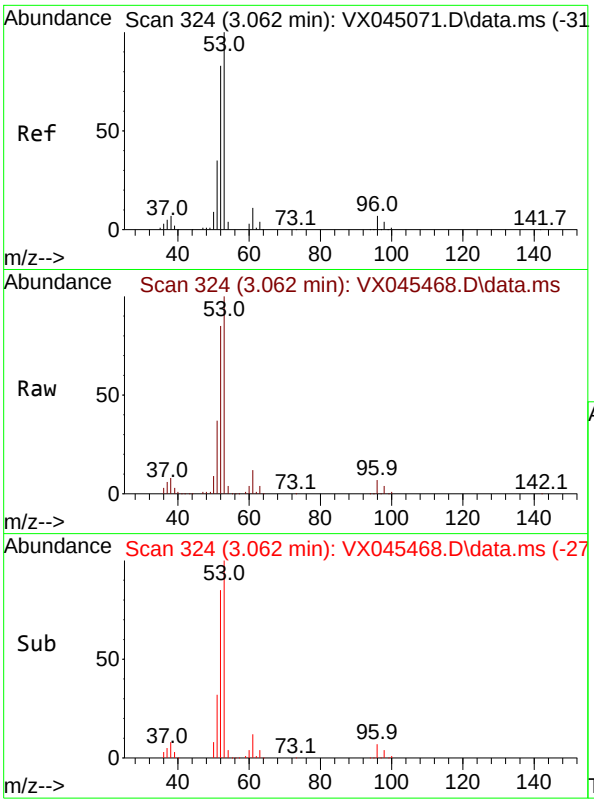


#14
Allyl chloride
Concen: 61.284 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 41 Resp: 104862

Ion	Ratio	Lower	Upper
41	100		
39	73.3	53.8	80.8
76	30.8	25.2	37.8

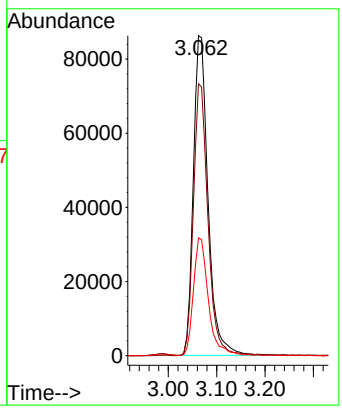




#15
Acrylonitrile
Concen: 288.335 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 53 Resp: 18213

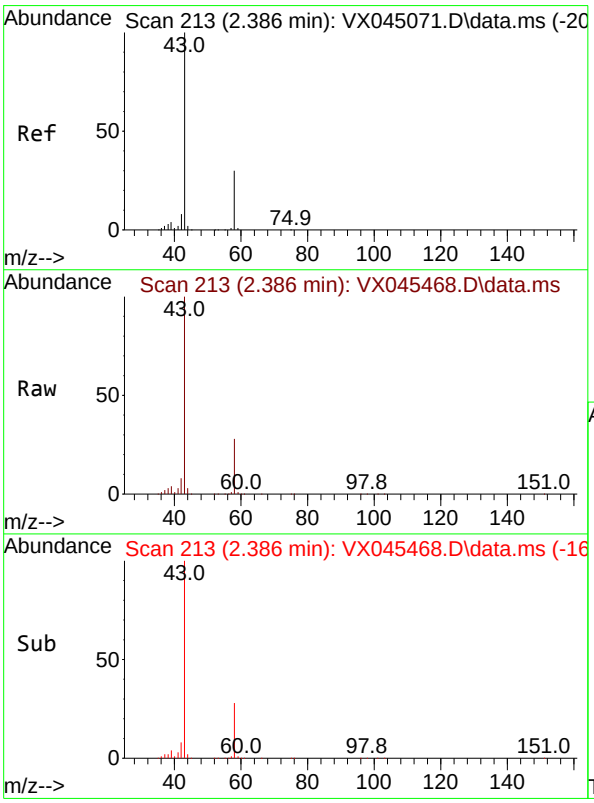
Ion	Ratio	Lower	Upper
53	100		
52	84.0	66.2	99.2
51	37.3	29.0	43.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

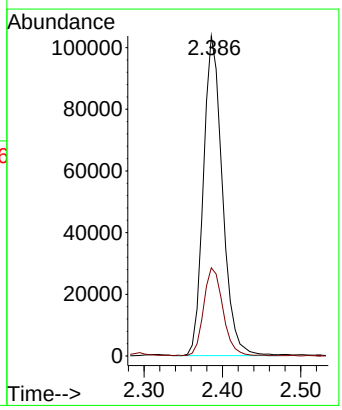
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

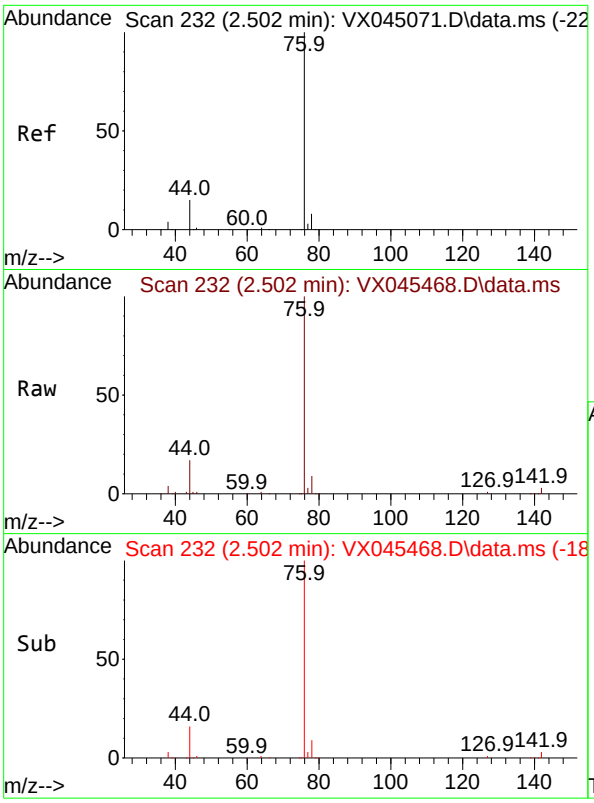


#16
Acetone
Concen: 302.689 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 174752

Ion	Ratio	Lower	Upper
43	100		
58	27.5	24.2	36.4

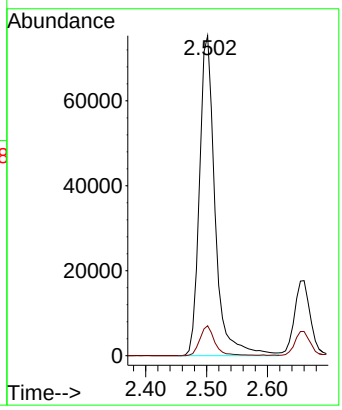




#17
Carbon Disulfide
Concen: 52.555 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 76 Resp: 13455

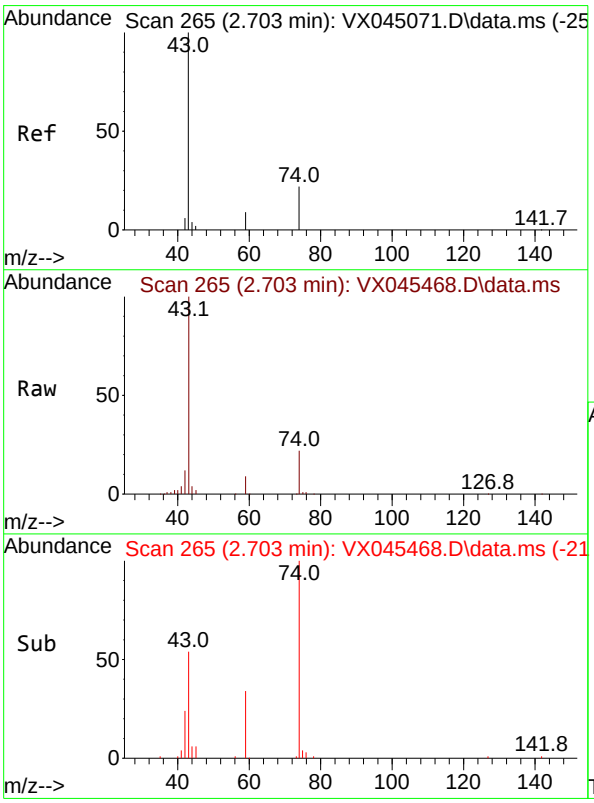
Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

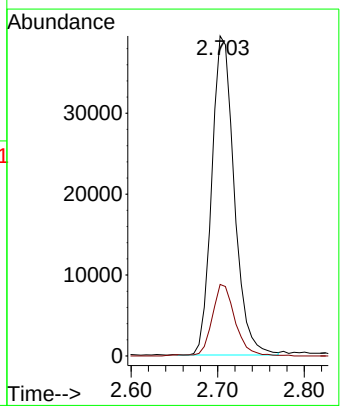
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

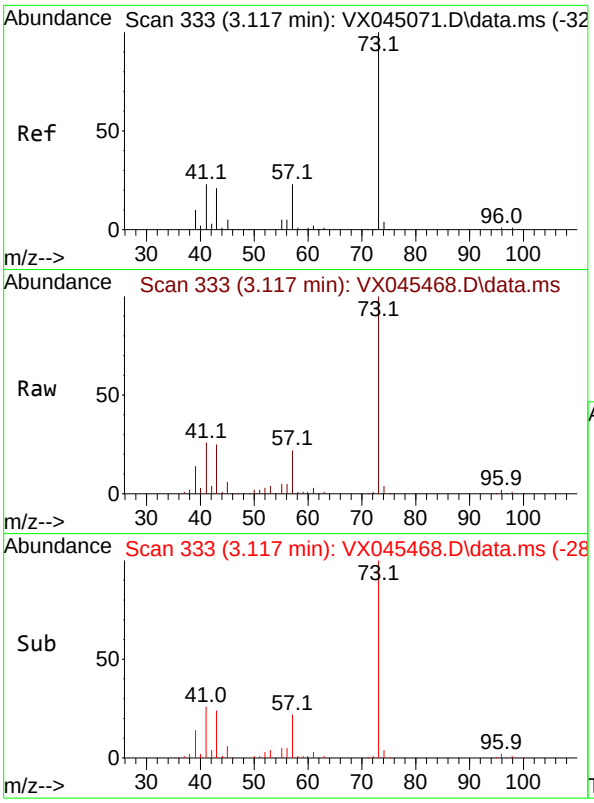


#18
Methyl Acetate
Concen: 51.211 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 71126

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2

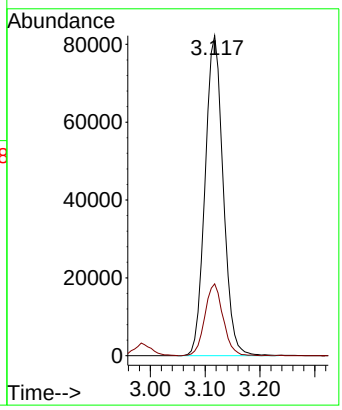




#19
Methyl tert-butyl Ether
Concen: 58.328 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 73 Resp: 18810

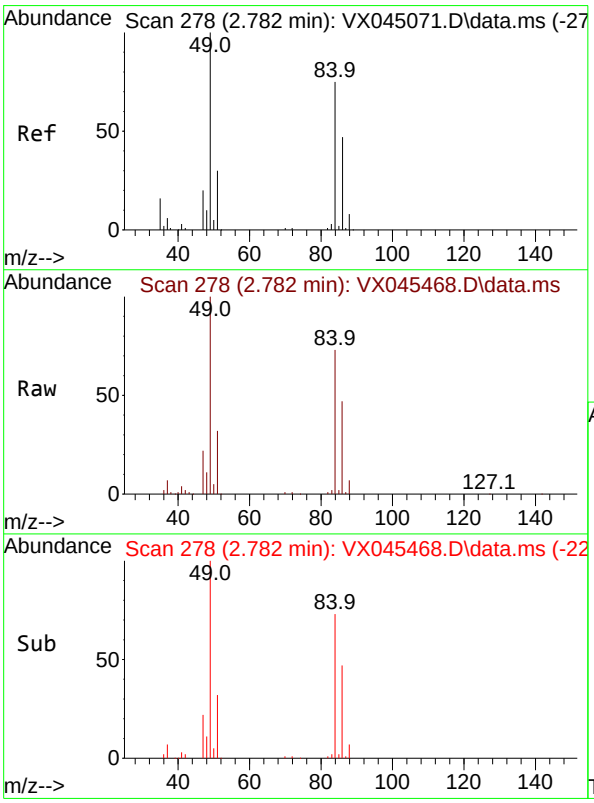
Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

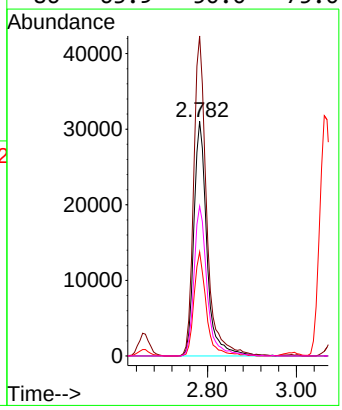
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

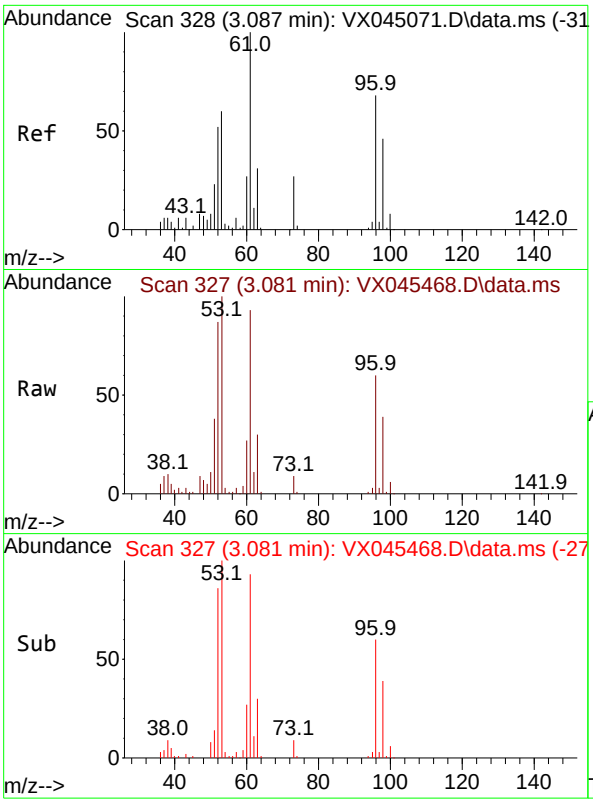


#20
Methylene Chloride
Concen: 55.042 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 84 Resp: 62947

Ion	Ratio	Lower	Upper
84	100		
49	136.5	106.5	159.7
51	44.3	32.1	48.1
86	63.9	50.0	75.0

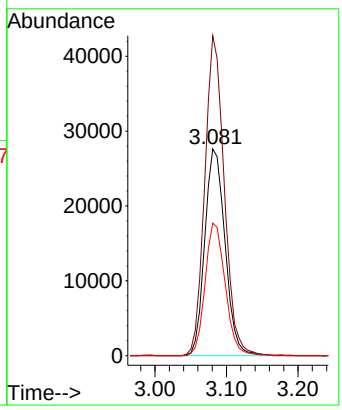




#21
trans-1,2-Dichloroethene
Concen: 57.460 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 96 Resp: 5456

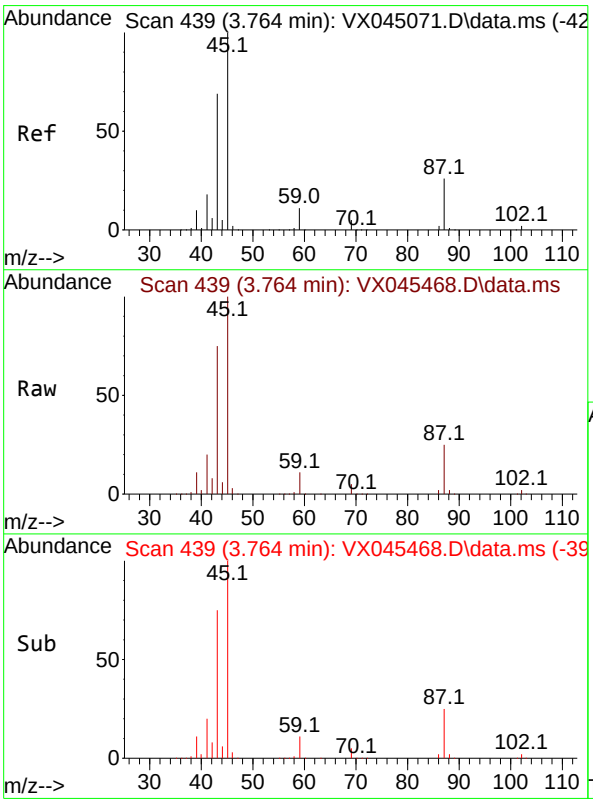
Ion	Ratio	Lower	Upper
96	100		
61	154.9	117.0	175.4
98	64.1	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

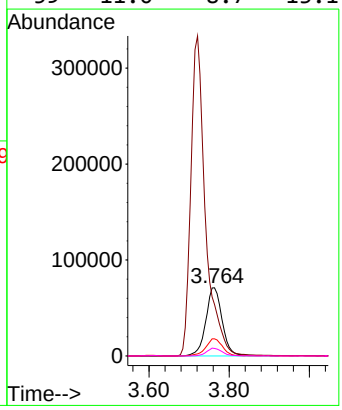
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

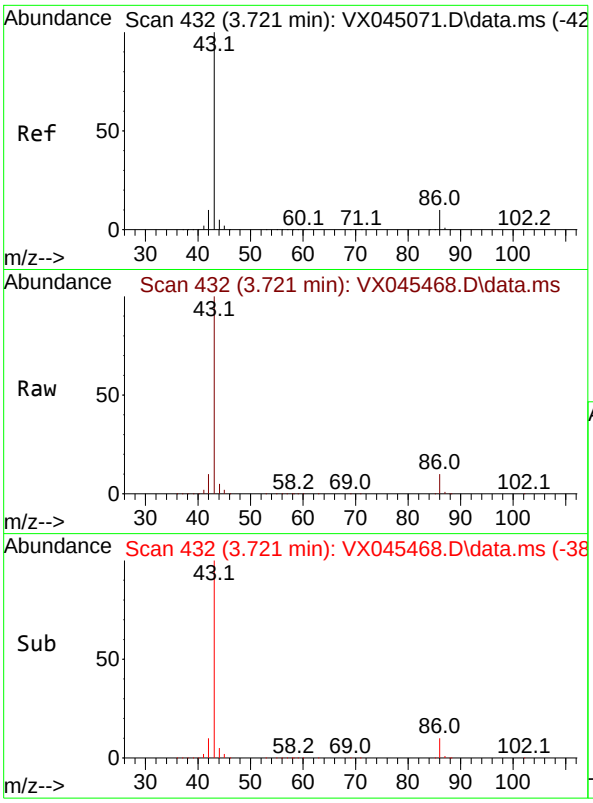


#22
Diisopropyl ether
Concen: 58.258 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 45 Resp: 202733

Ion	Ratio	Lower	Upper
45	100		
43	75.3	54.9	82.3
87	25.1	21.0	31.4
59	11.0	8.7	13.1

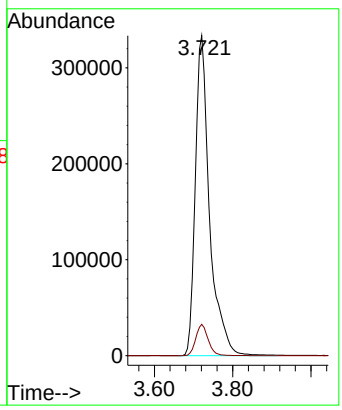




#23
Vinyl Acetate
Concen: 291.450 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 84637

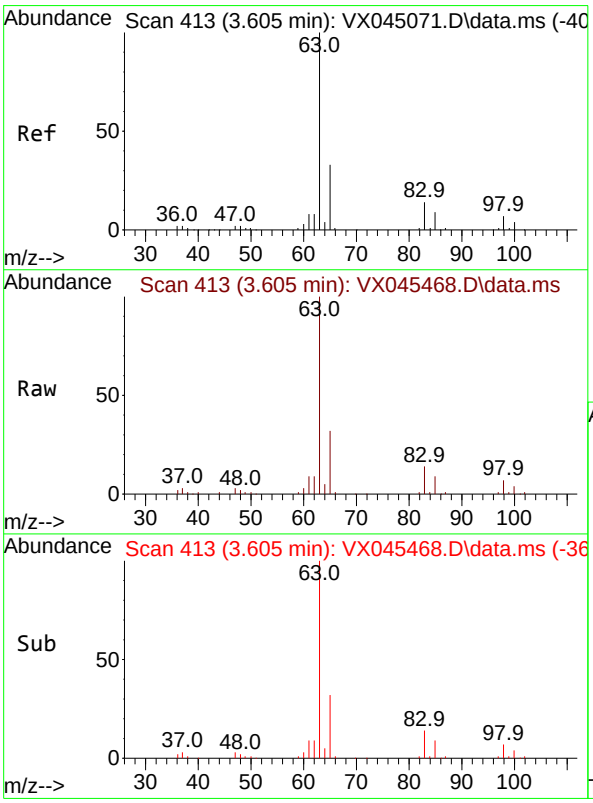
Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

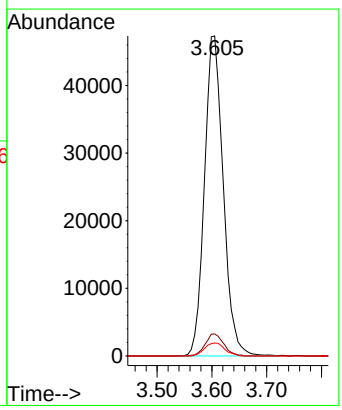
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

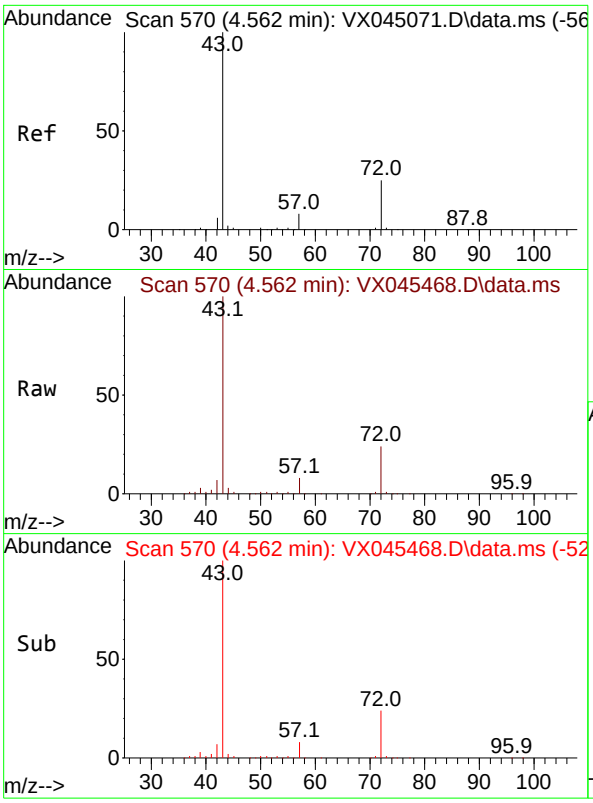


#24
1,1-Dichloroethane
Concen: 57.703 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 63 Resp: 112537

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.4	10.2
100	4.1	2.1	6.5

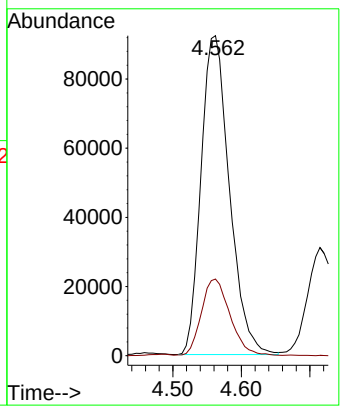




#25
2-Butanone
Concen: 305.711 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 26567

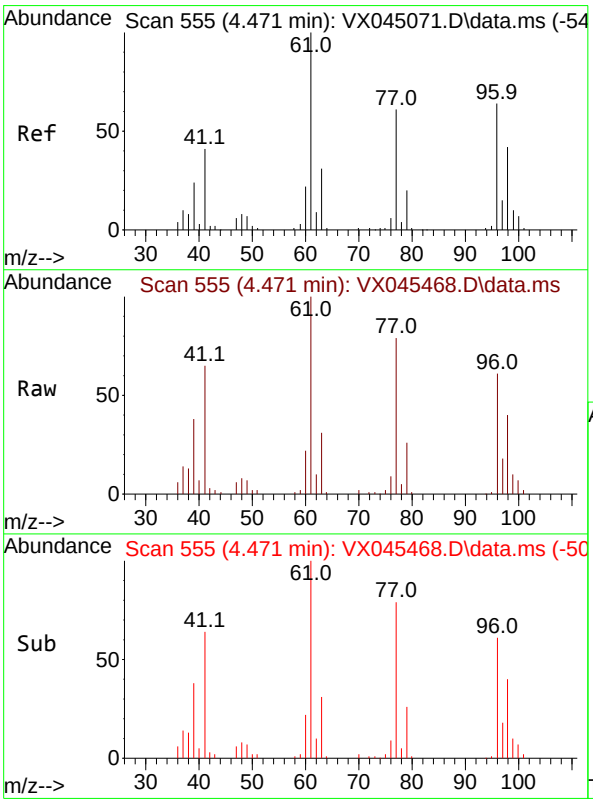
Ion	Ratio	Lower	Upper
43	100		
72	23.9	20.0	30.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

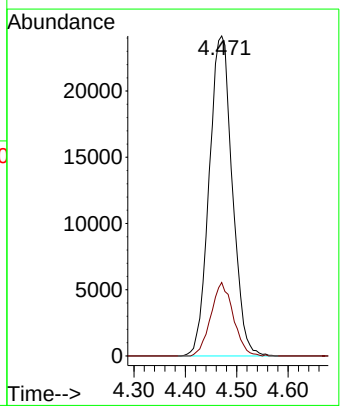
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

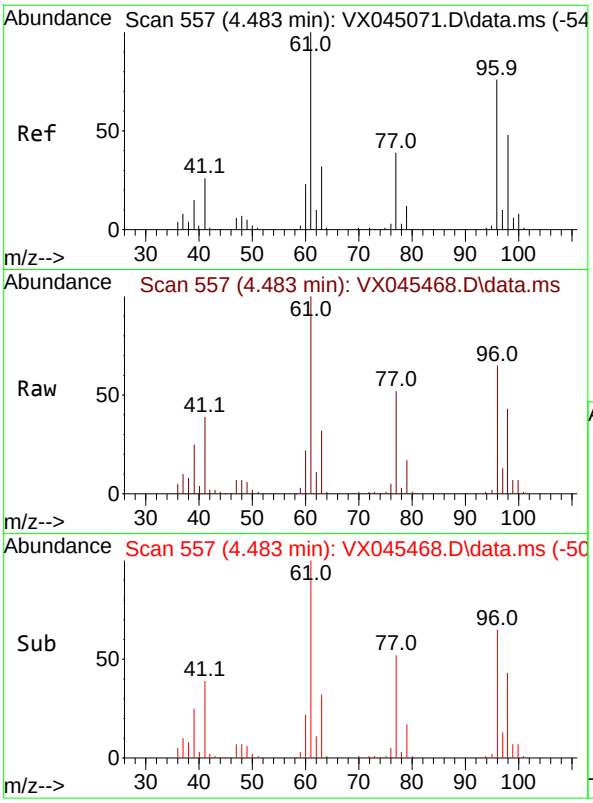


#26
2,2-Dichloropropane
Concen: 82.434 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 77 Resp: 75408

Ion	Ratio	Lower	Upper
77	100		
97	22.3	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 56.906 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

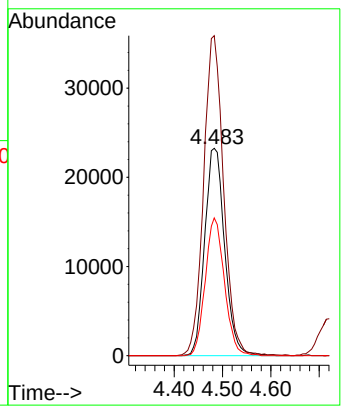
Tgt Ion: 96 Resp: 6671

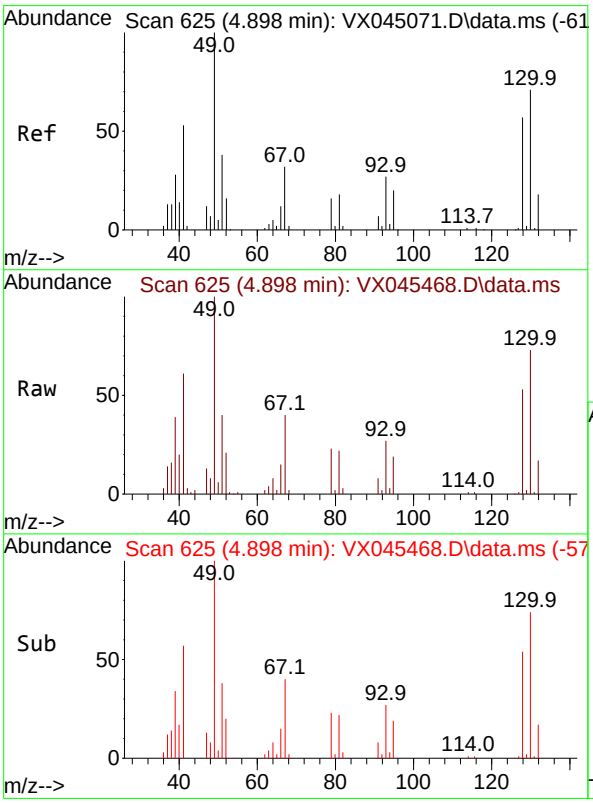
Ion	Ratio	Lower	Upper
96	100		
61	154.5	0.0	283.2
98	63.8	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

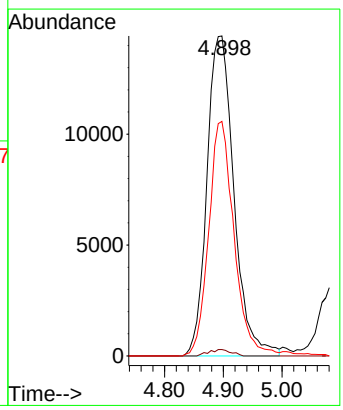


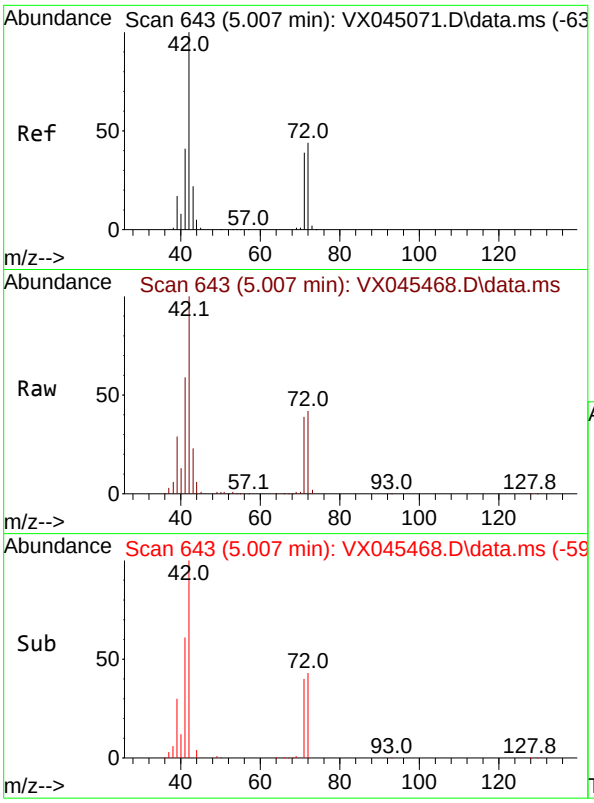


#28
Bromochloromethane
Concen: 49.551 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 49 Resp: 46062

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	68.8	56.1	84.1

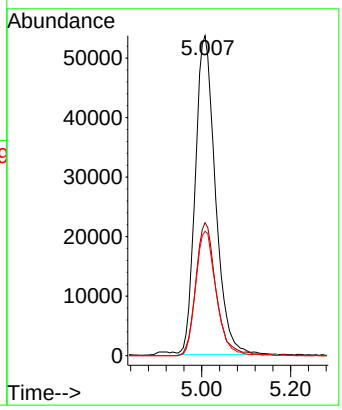




#29
Tetrahydrofuran
Concen: 288.508 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 42 Resp: 16837

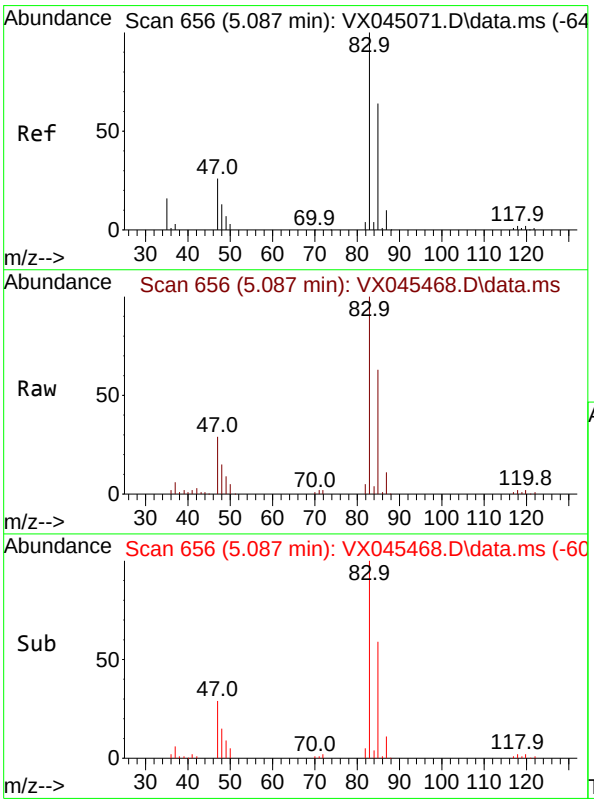
Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.1	51.1
71	39.6	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

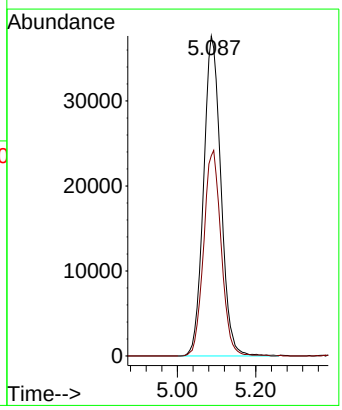
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

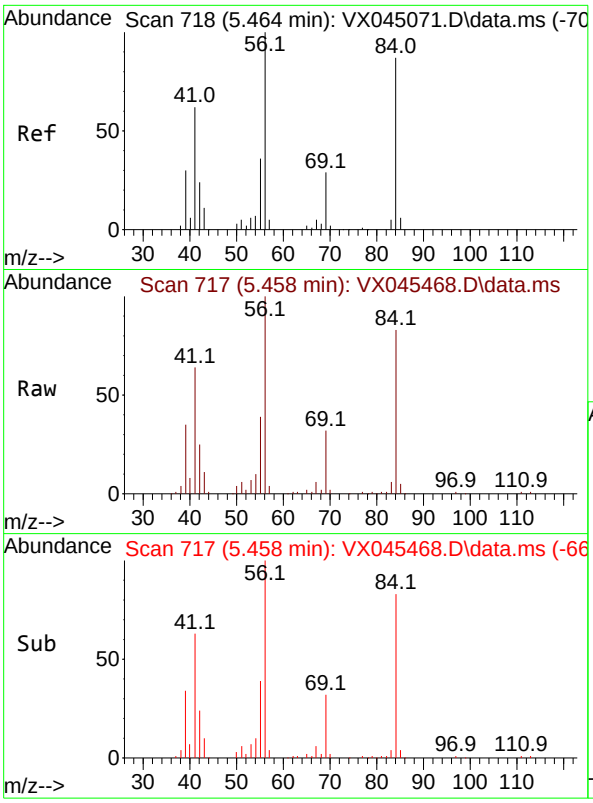


#30
Chloroform
Concen: 59.557 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 83 Resp: 115410

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.4	77.2

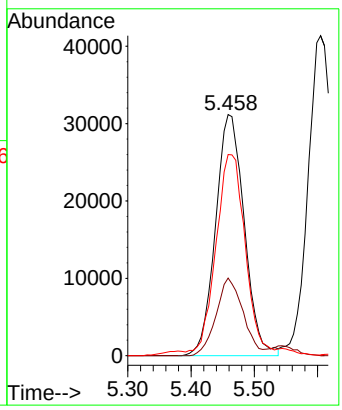




#31
Cyclohexane
Concen: 58.020 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 56 Resp: 9822

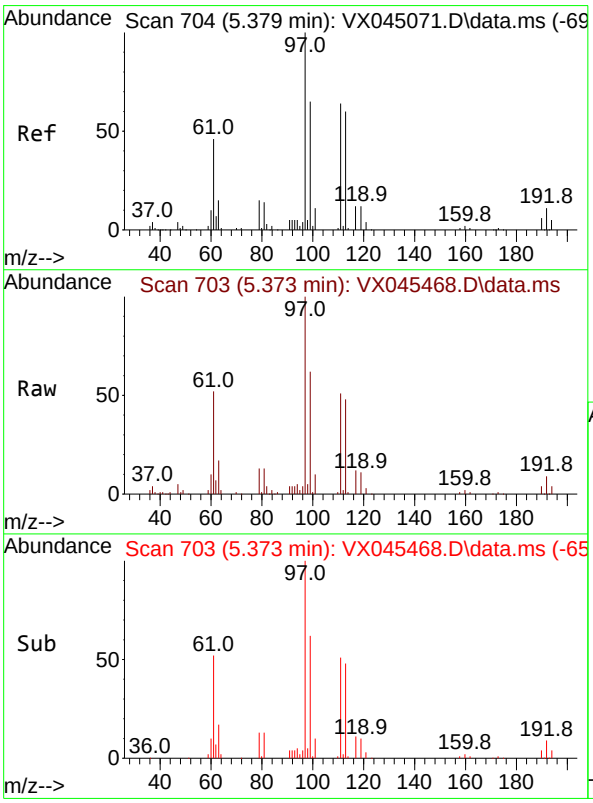
Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.4	35.2
84	81.5	69.4	104.2



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

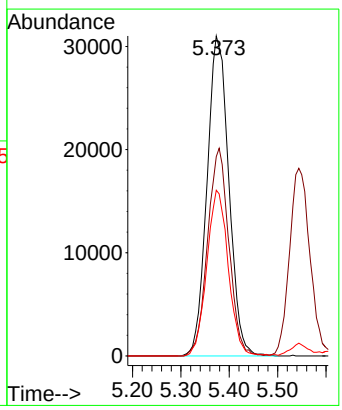
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

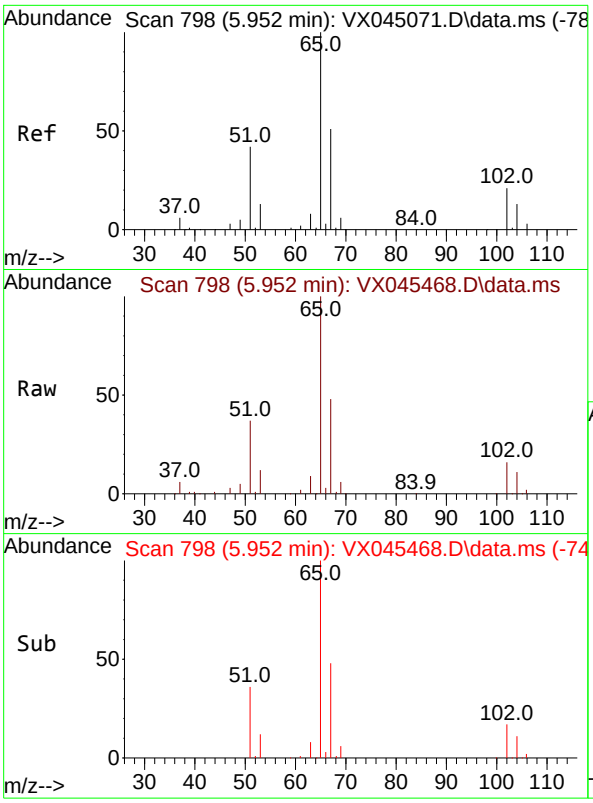


#32
1,1,1-Trichloroethane
Concen: 61.995 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 97 Resp: 97027

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.6	77.4
61	51.3	38.4	57.6

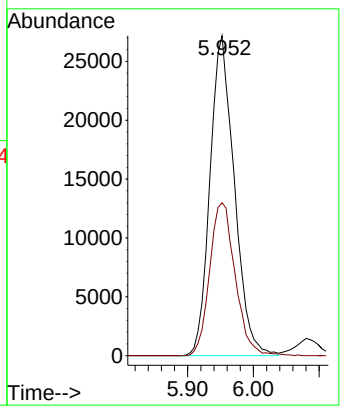




#33
1,2-Dichloroethane-d4
Concen: 56.344 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 65 Resp: 7011

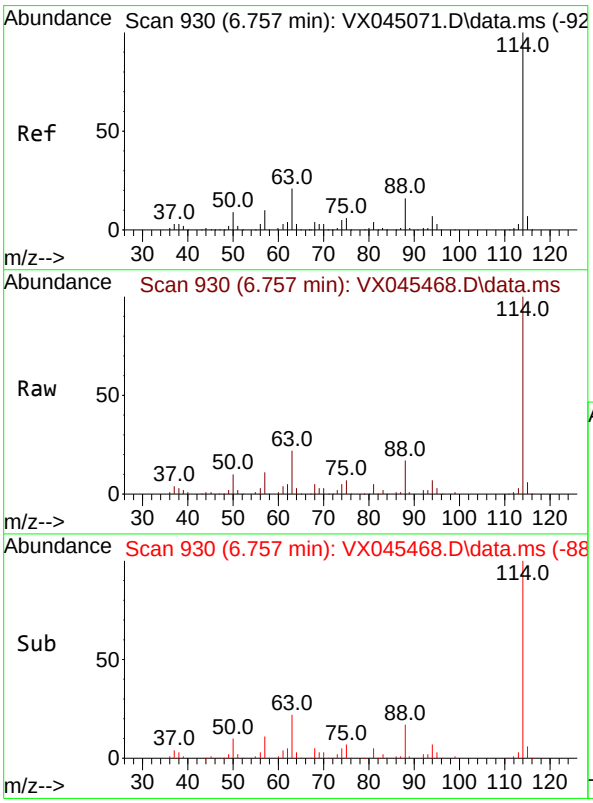
Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	106.2



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

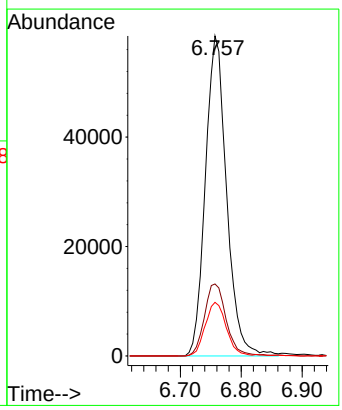
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

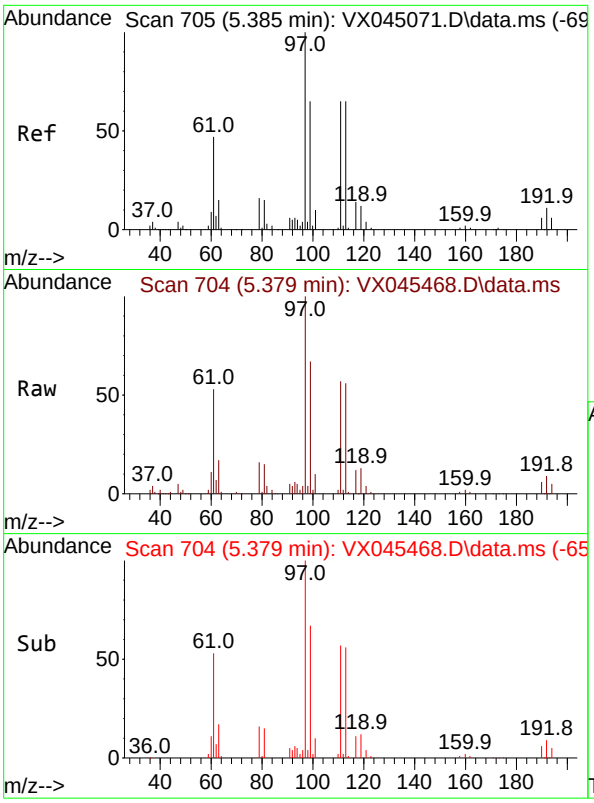


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:114 Resp: 141777

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	41.8
88	16.8	0.0	32.8

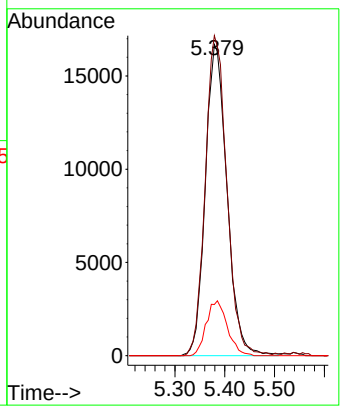




#35
Dibromofluoromethane
Concen: 52.997 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:113 Resp: 5024

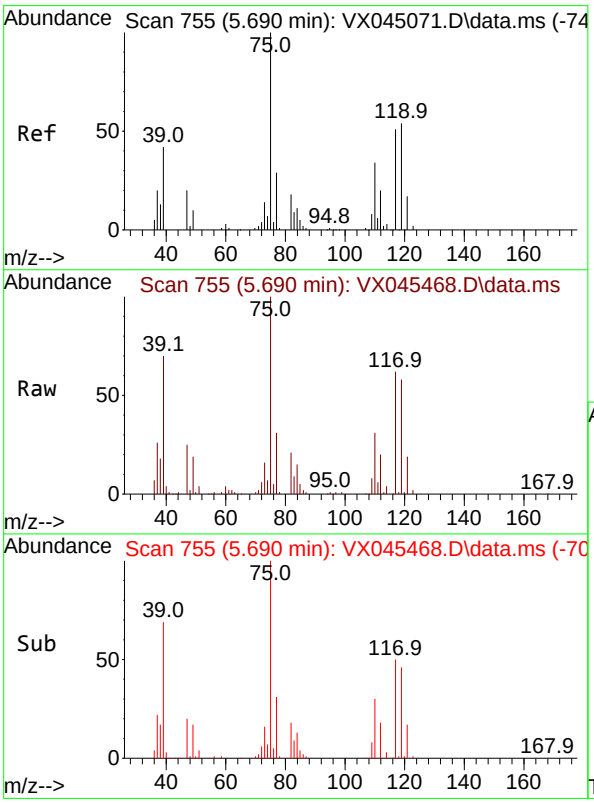
Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.6
192	17.1	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

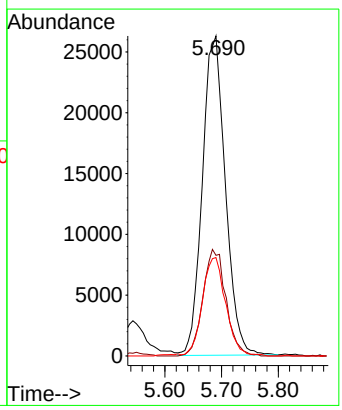
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

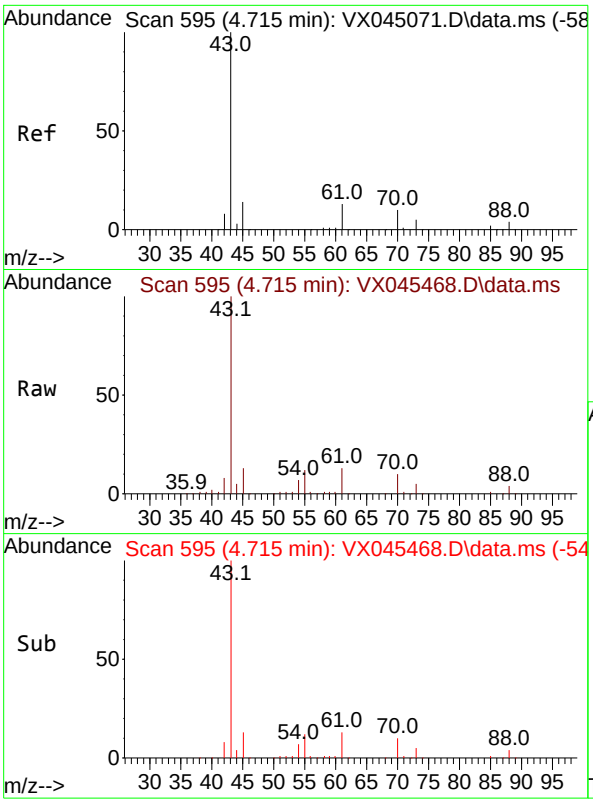


#36
1,1-Dichloropropene
Concen: 57.103 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 74241

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.9	50.6
77	31.6	24.5	36.7

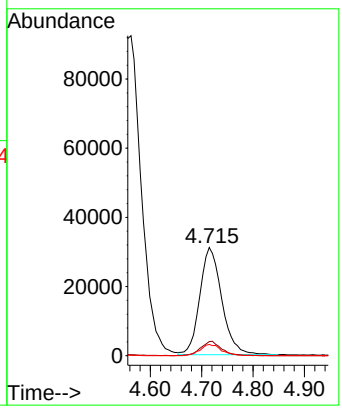




#37
Ethyl Acetate
Concen: 55.257 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 9257

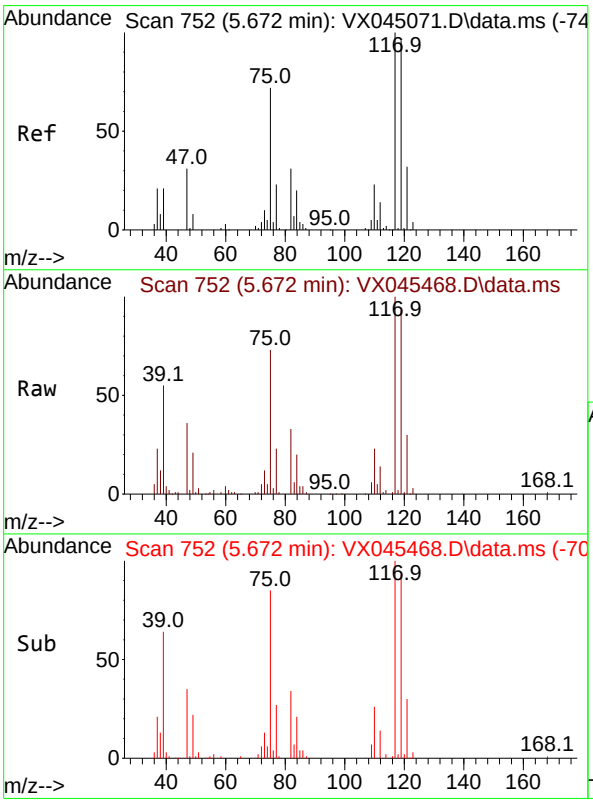
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.8	16.2
70	10.0	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

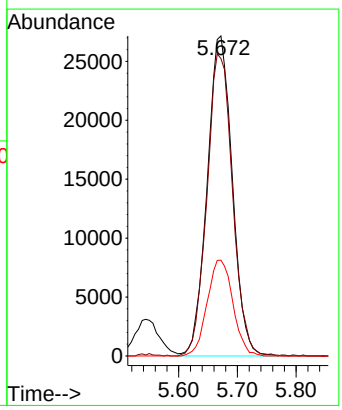
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

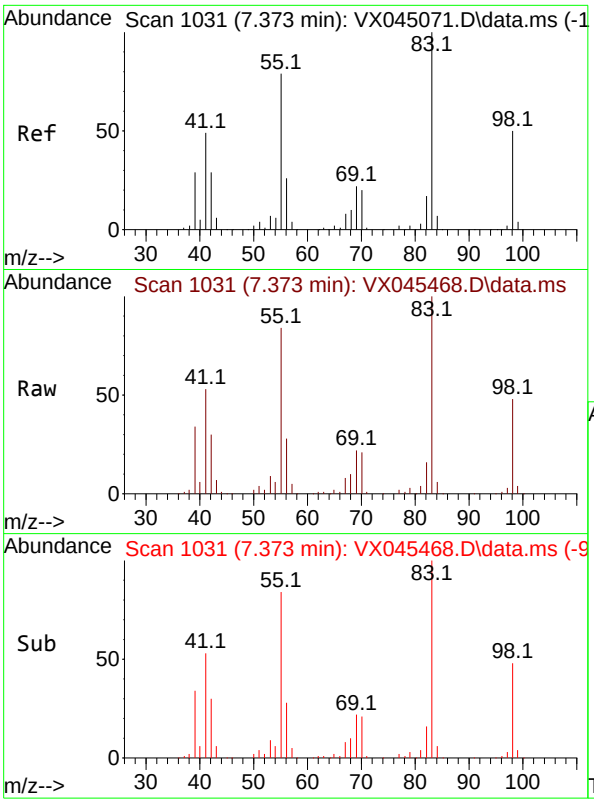


#38
Carbon Tetrachloride
Concen: 61.239 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:117 Resp: 80831

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.7	115.1
121	30.0	25.5	38.3

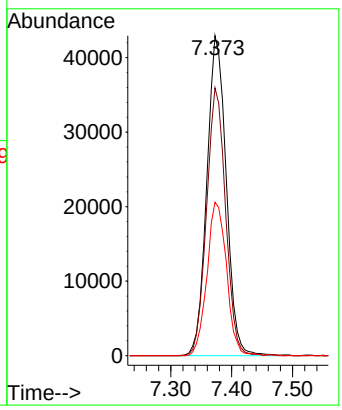




#39
Methylcyclohexane
Concen: 60.989 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 83 Resp: 9501

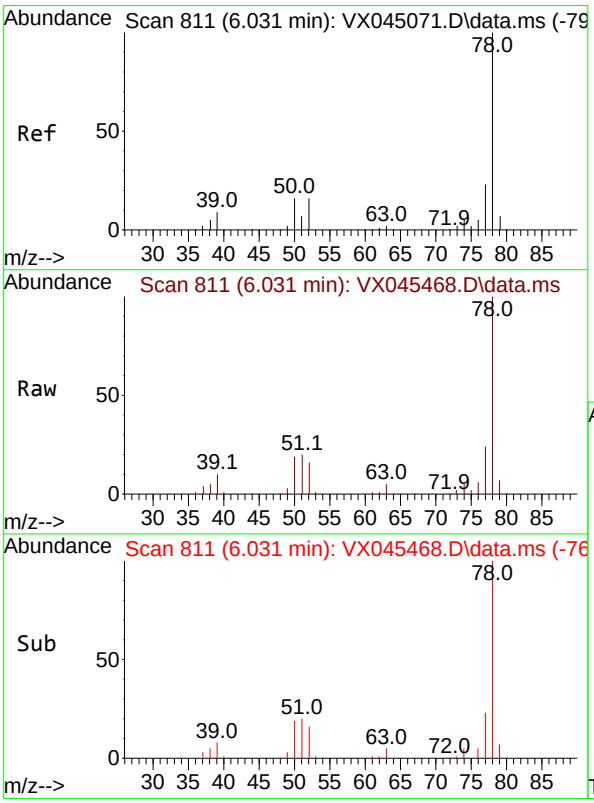
Ion	Ratio	Lower	Upper
83	100		
55	83.7	63.0	94.4
98	47.9	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

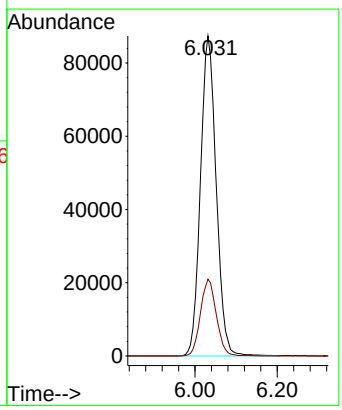
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

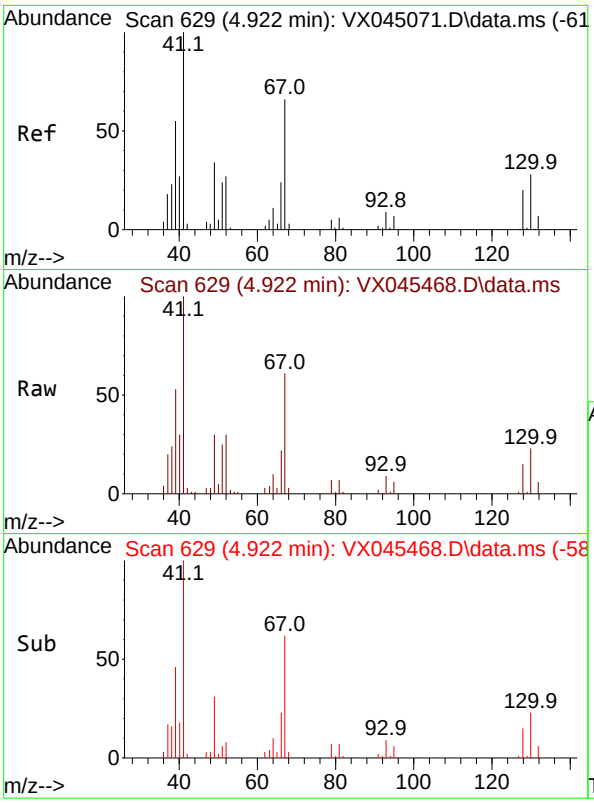


#40
Benzene
Concen: 56.503 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 78 Resp: 231971

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2

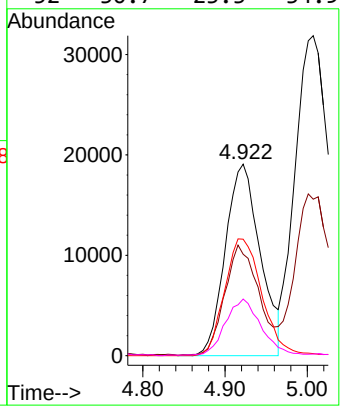




#41
Methacrylonitrile
Concen: 62.268 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 41 Resp: 5640

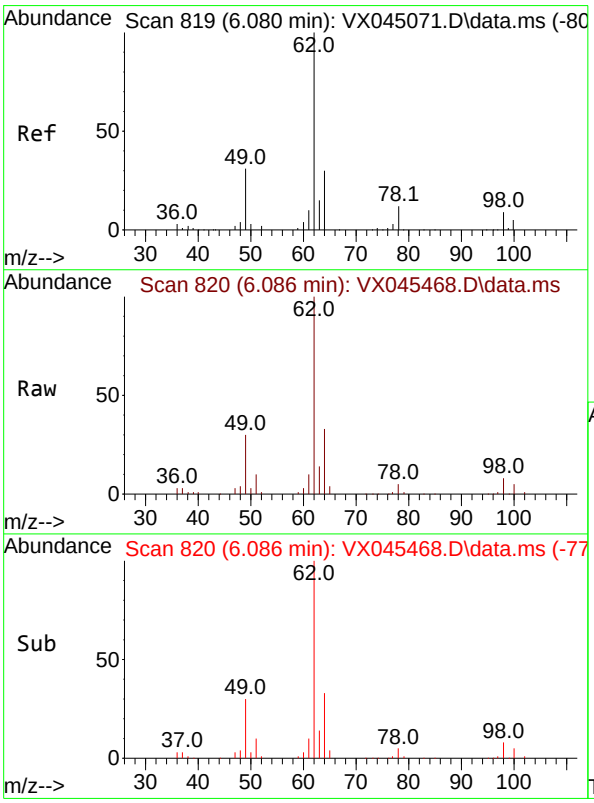
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.6	67.0
67	65.2	53.9	80.9
52	30.7	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

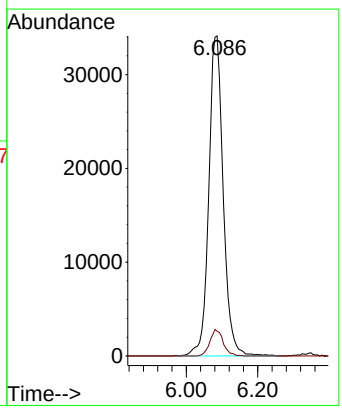
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

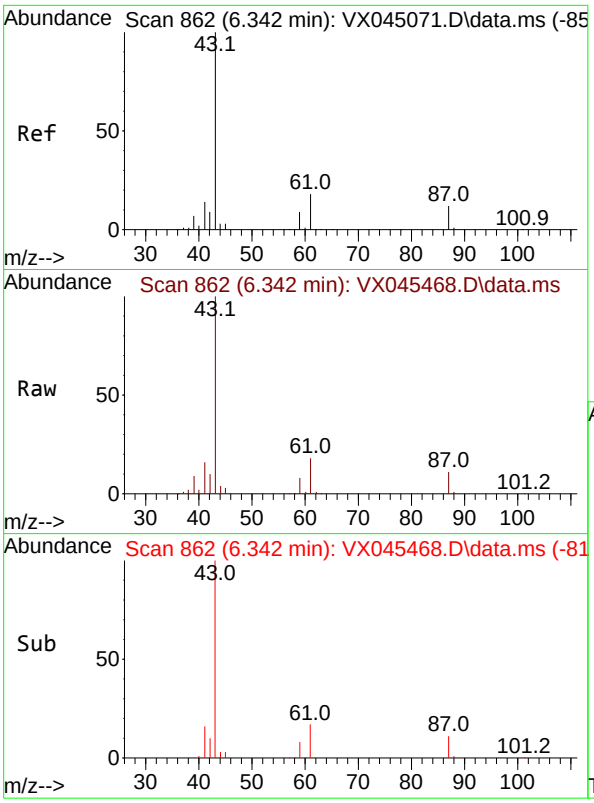


#42
1,2-Dichloroethane
Concen: 64.791 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 62 Resp: 95787

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	18.2

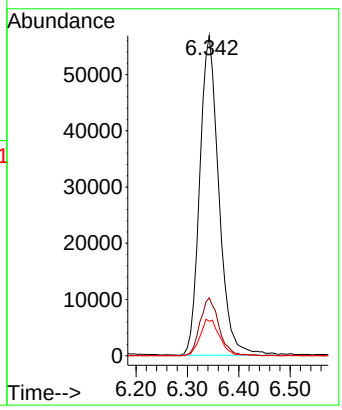




#43
Isopropyl Acetate
Concen: 59.161 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 14655

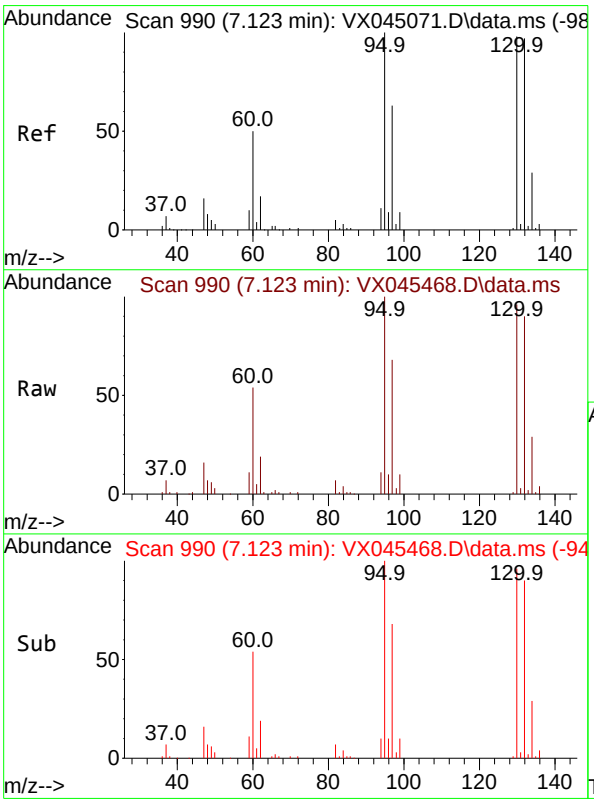
Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.9	22.3
87	11.5	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

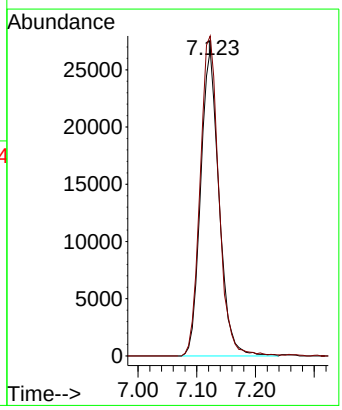
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

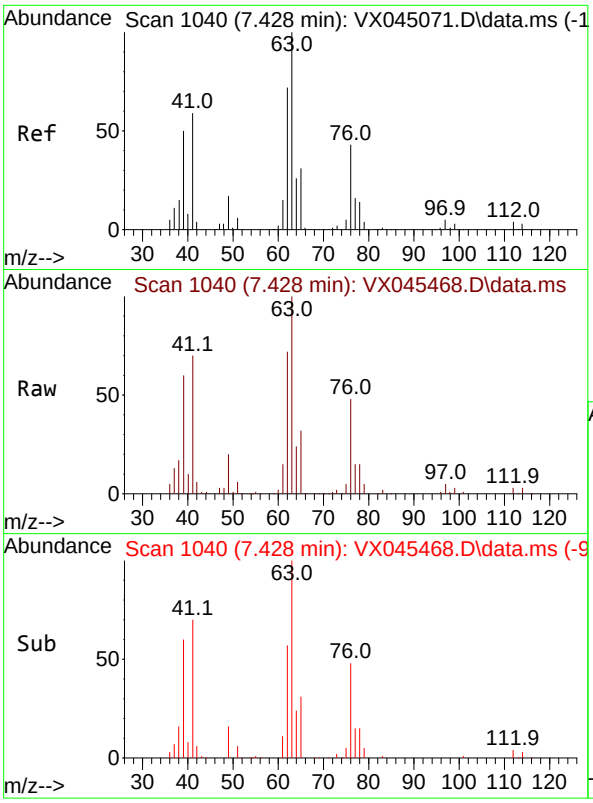


#44
Trichloroethene
Concen: 60.433 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:130 Resp: 58258

Ion	Ratio	Lower	Upper
130	100		
95	104.5	0.0	205.0





#45
1,2-Dichloropropane
Concen: 56.753 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

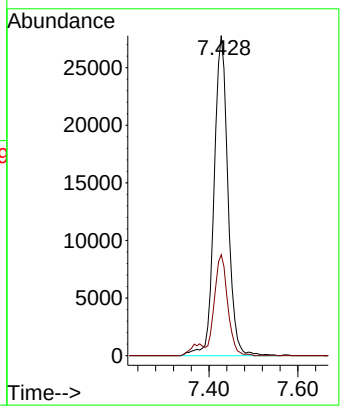
Tgt Ion: 63 Resp: 5990

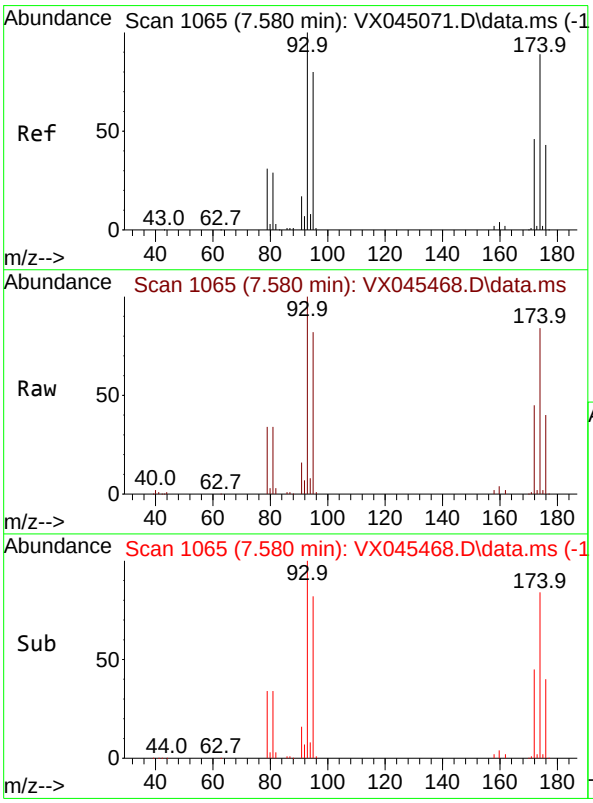
Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

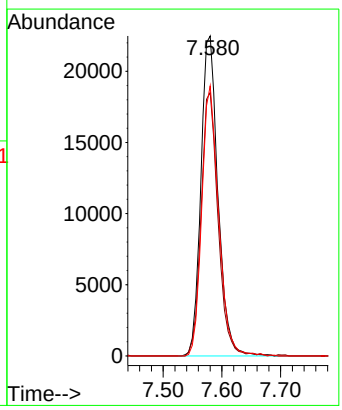


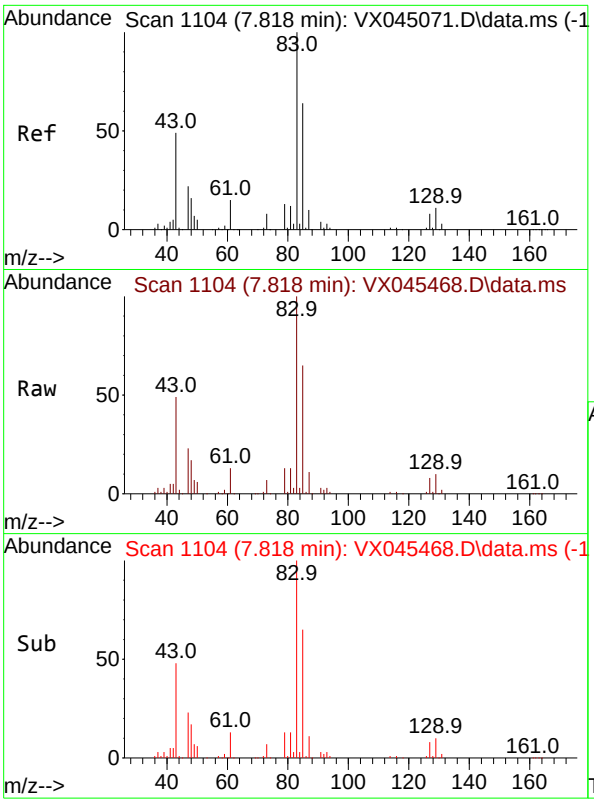


#46
Dibromomethane
Concen: 61.013 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 93 Resp: 45521

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.8	98.8
174	83.2	72.2	108.2

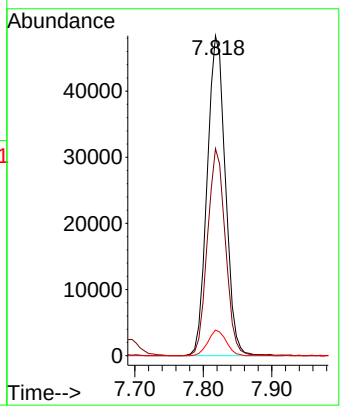




#47
Bromodichloromethane
Concen: 61.024 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 83 Resp: 8930

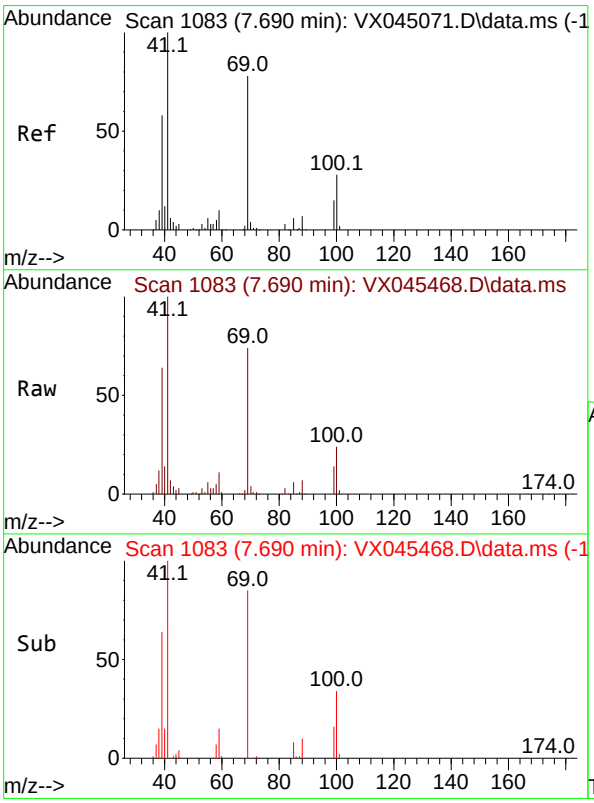
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.1	76.7
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

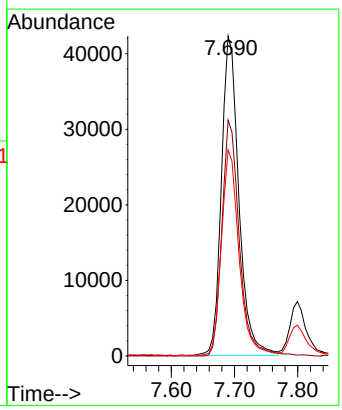
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

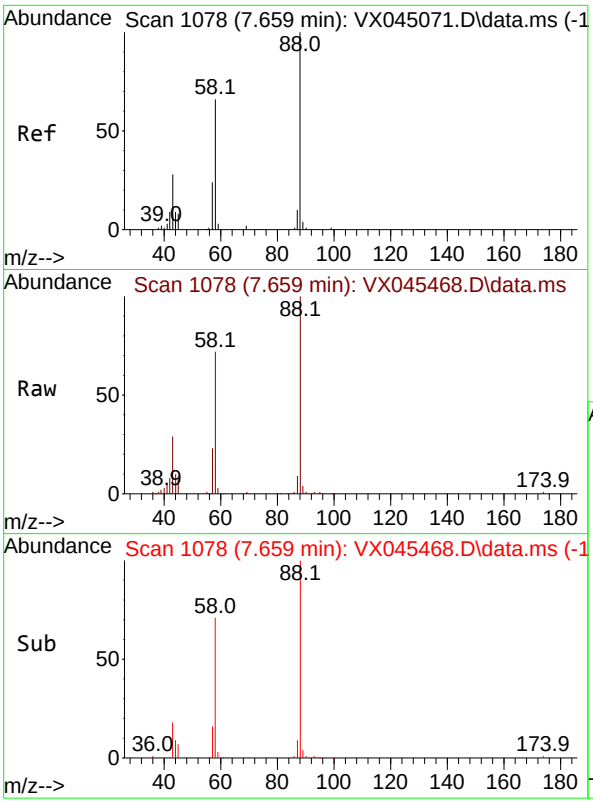


#48
Methyl methacrylate
Concen: 65.022 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 41 Resp: 80811

Ion	Ratio	Lower	Upper
41	100		
69	73.8	63.0	94.6
39	64.5	47.5	71.3





#49
1,4-Dioxane
Concen: 1256.441 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

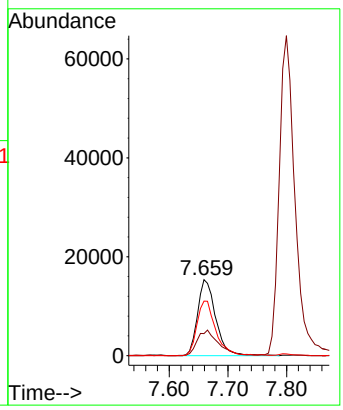
Tgt Ion: 88 Resp: 3293

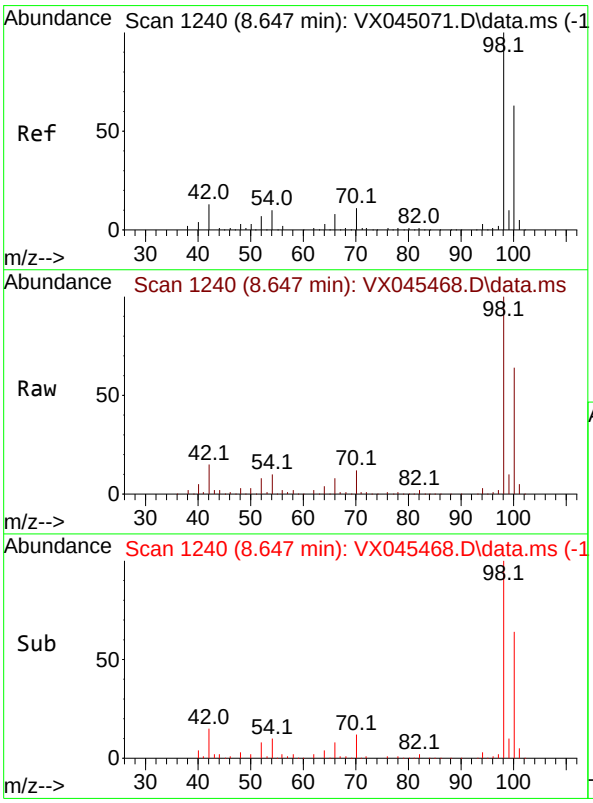
Ion	Ratio	Lower	Upper
88	100		
43	39.8	28.7	43.1
58	73.9	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

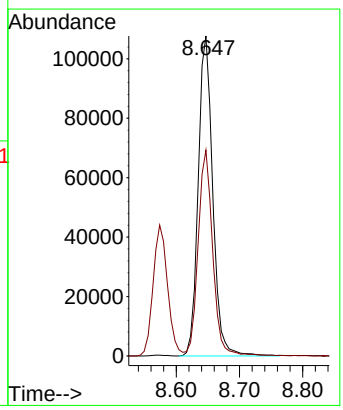


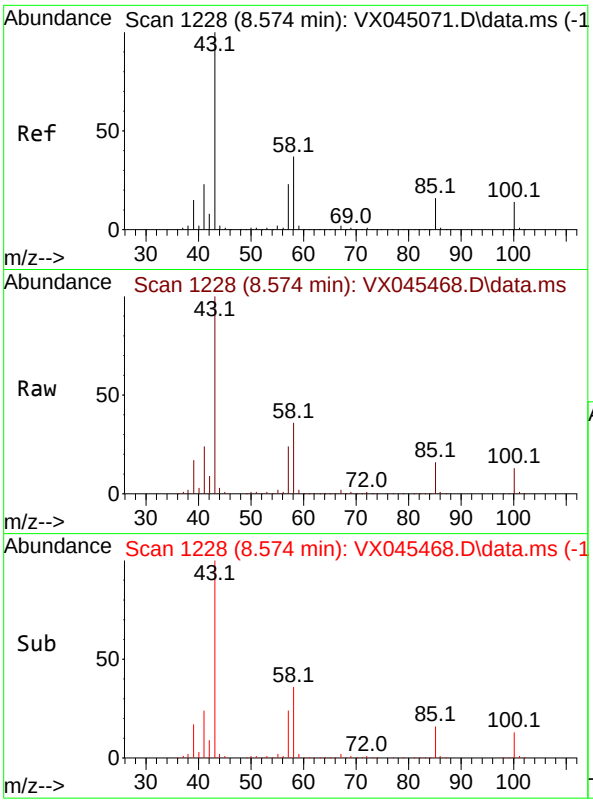


#50
Toluene-d8
Concen: 50.192 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 98 Resp: 172507

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0

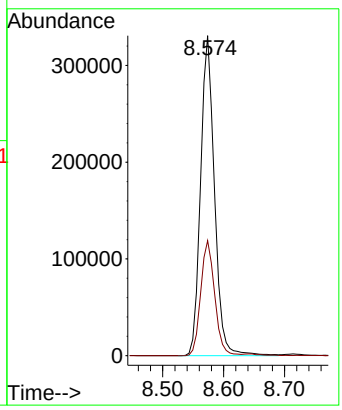




#51
4-Methyl-2-Pentanone
Concen: 315.900 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 52545

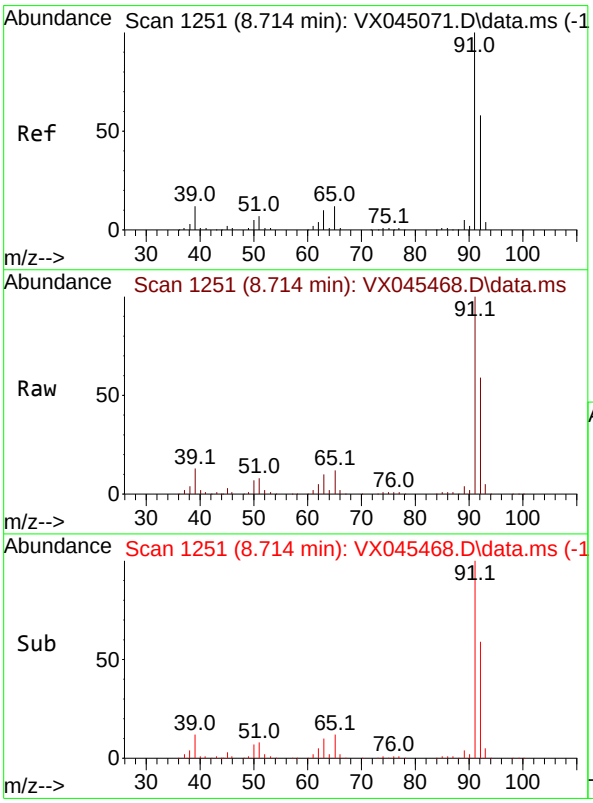
Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

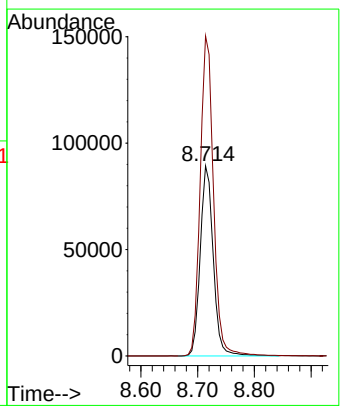
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

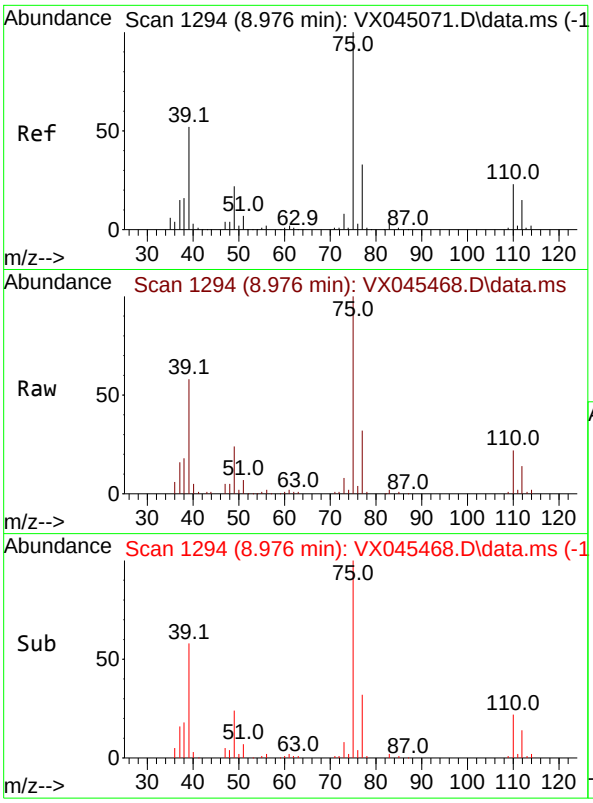


#52
Toluene
Concen: 59.114 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 92 Resp: 142393

Ion	Ratio	Lower	Upper
92	100		
91	171.7	138.9	208.3

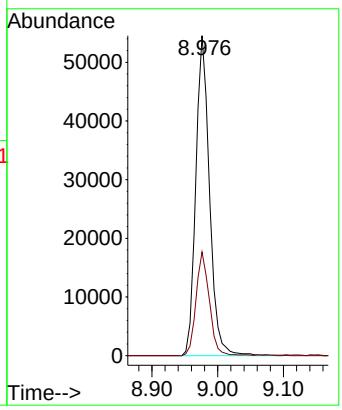




#53
t-1,3-Dichloropropene
Concen: 64.712 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 7917

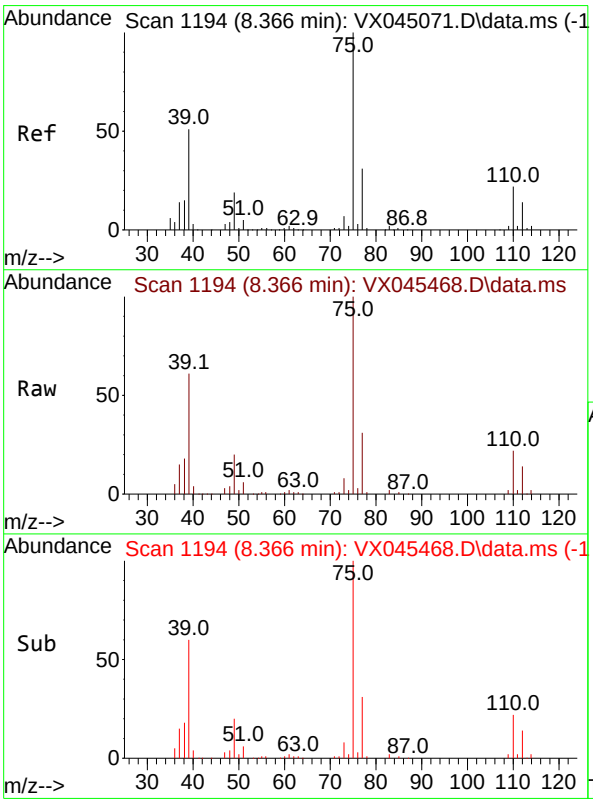
Ion	Ratio	Lower	Upper
75	100		
77	32.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

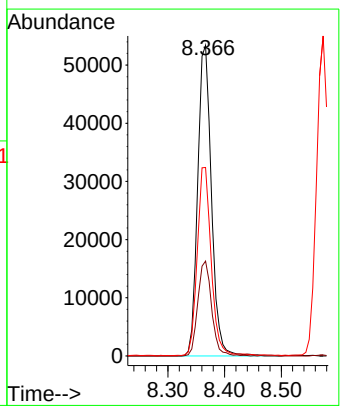
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

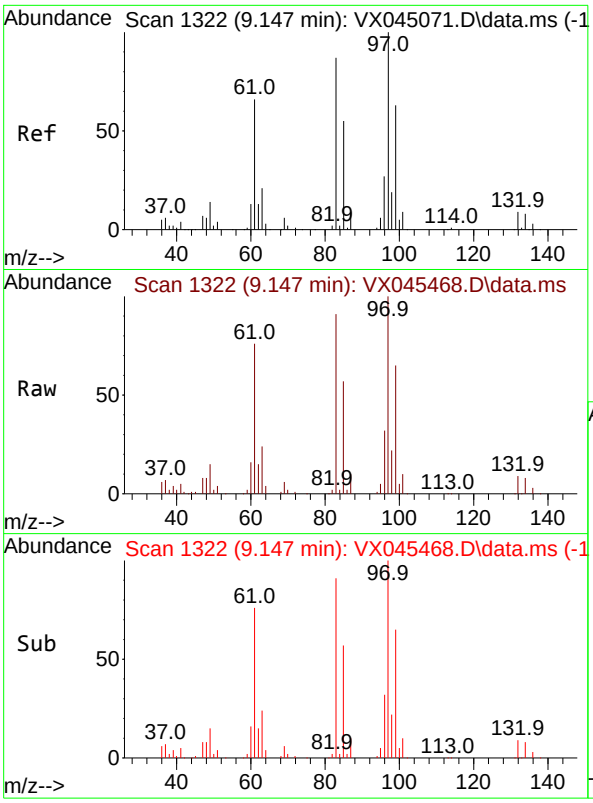


#54
cis-1,3-Dichloropropene
Concen: 63.050 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 89949

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.7	37.1
39	60.5	40.7	61.1

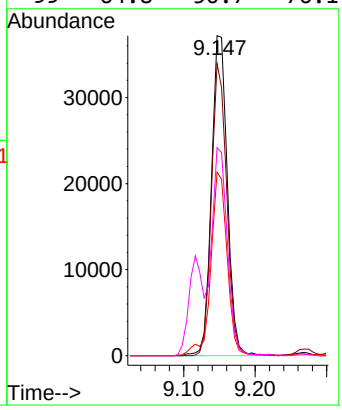




#55
1,1,2-Trichloroethane
Concen: 57.798 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 97 Resp: 5731

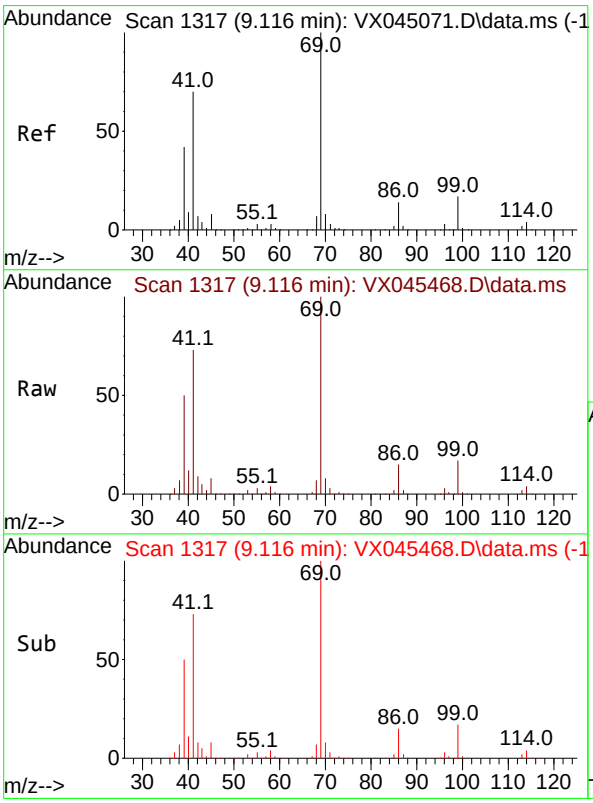
Ion	Ratio	Lower	Upper
97	100		
83	91.3	69.4	104.2
85	57.2	44.1	66.1
99	64.8	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

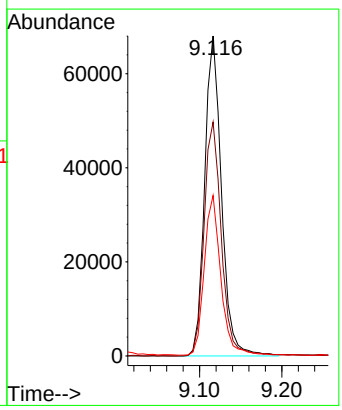
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

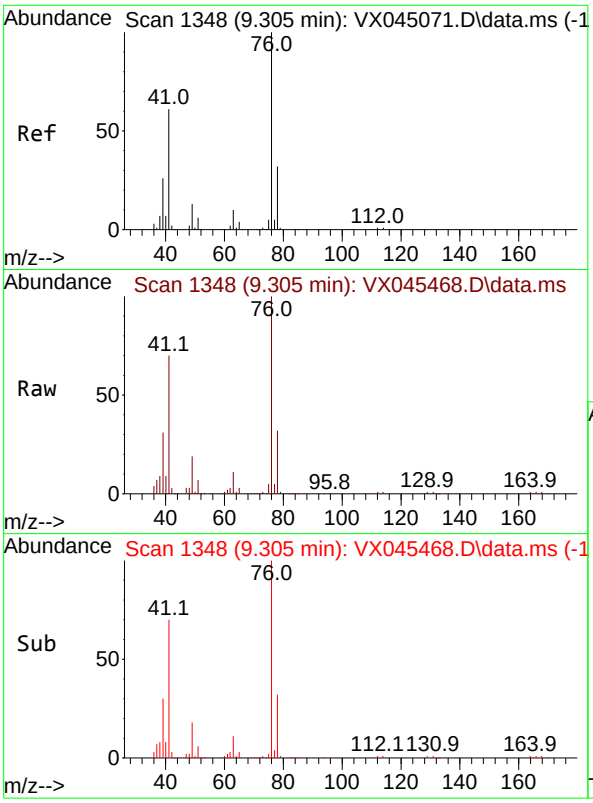


#56
Ethyl methacrylate
Concen: 64.139 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 69 Resp: 96679

Ion	Ratio	Lower	Upper
69	100		
41	75.9	57.0	85.4
39	49.3	34.2	51.4

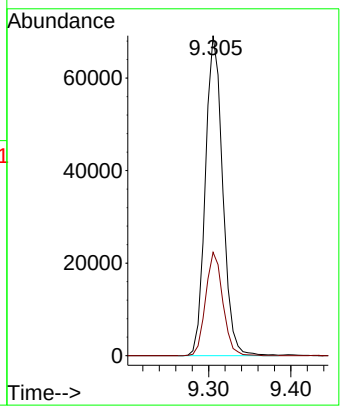




#57
1,3-Dichloropropane
Concen: 58.931 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 76 Resp: 10113

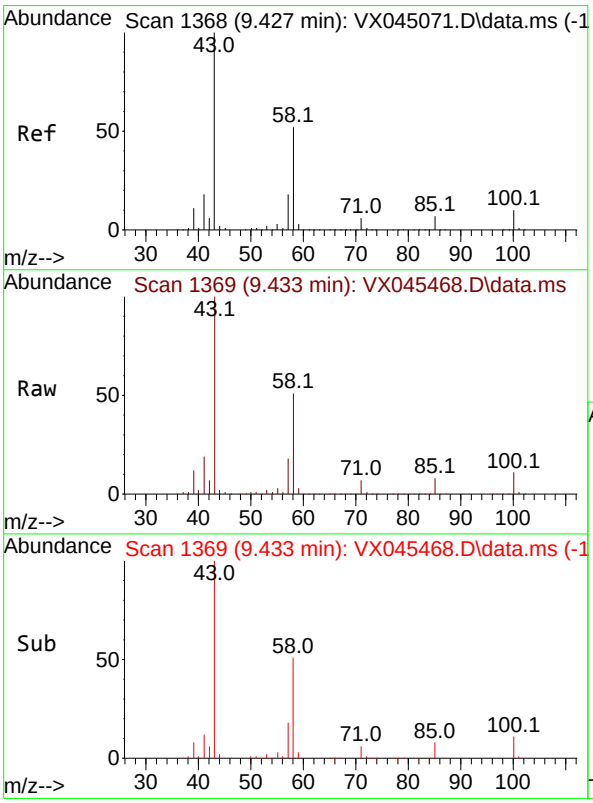
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

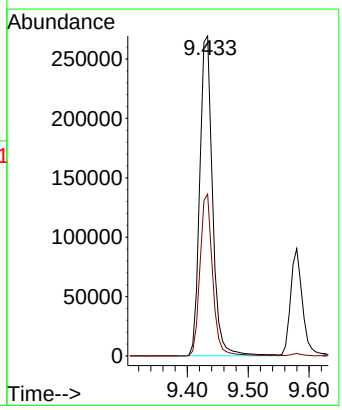
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

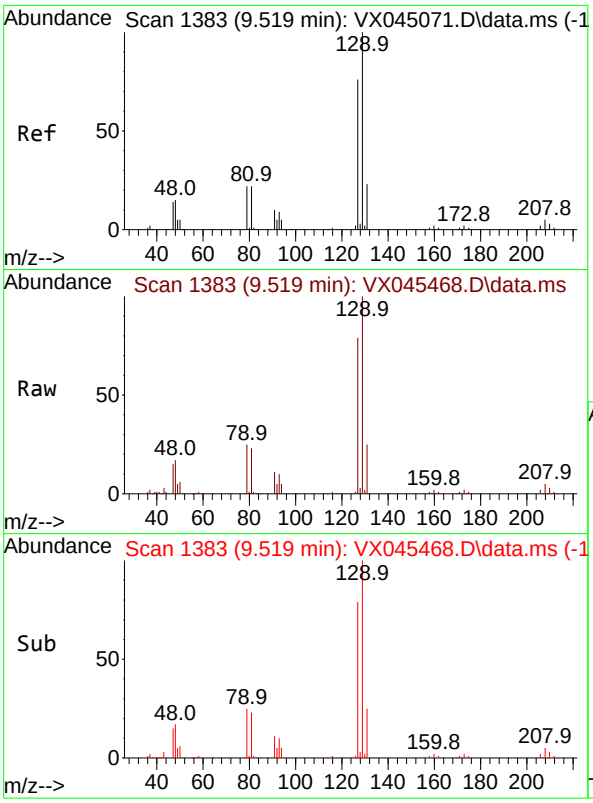


#59
2-Hexanone
Concen: 325.728 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 392557

Ion	Ratio	Lower	Upper
43	100		
58	50.1	25.9	77.6

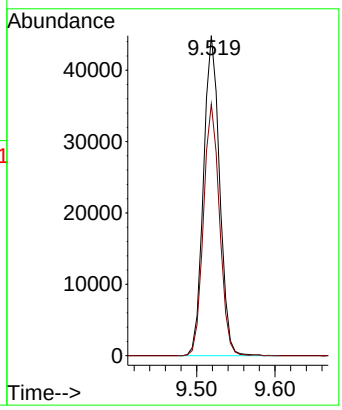




#60
Dibromochloromethane
Concen: 61.714 ug/l
RT: 9.519 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:129 Resp: 6398

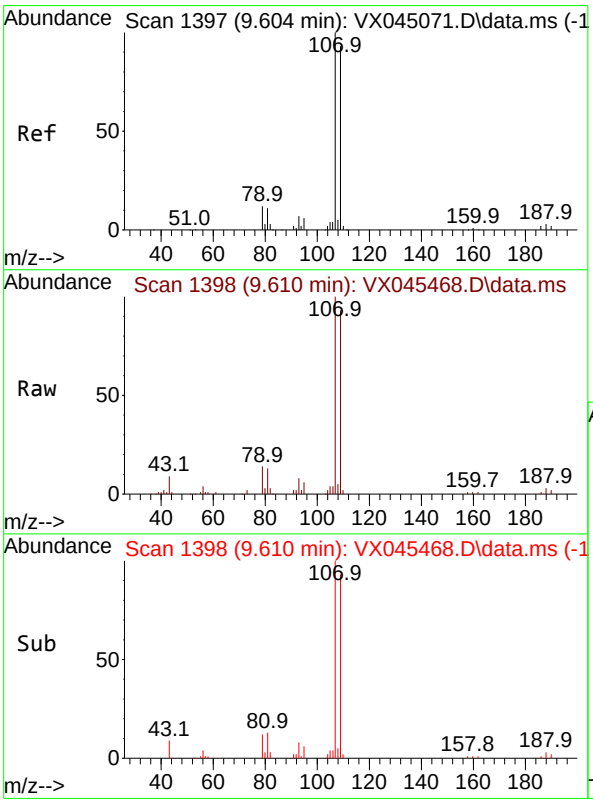
Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.5	115.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

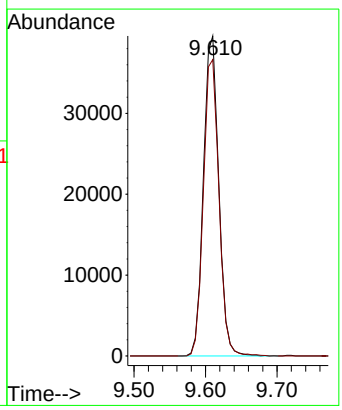
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

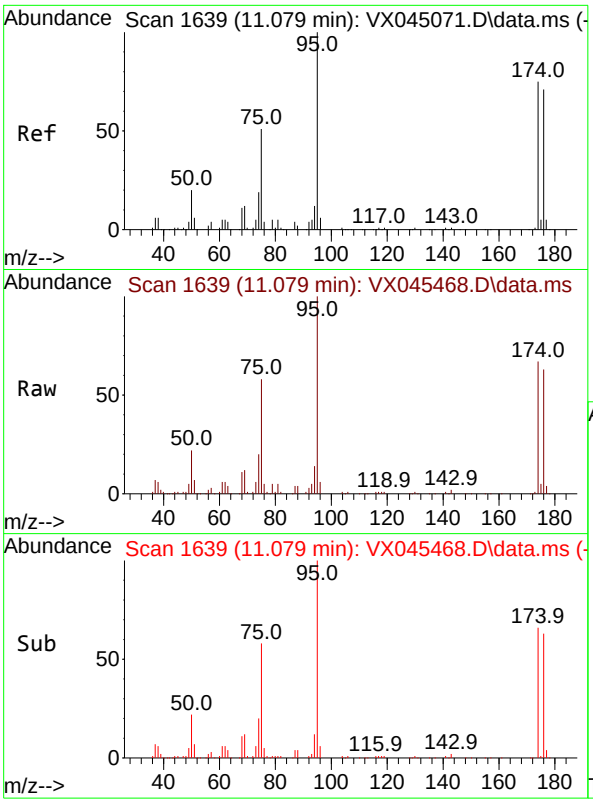


#61
1,2-Dibromoethane
Concen: 59.453 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:107 Resp: 58855

Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.1	114.1

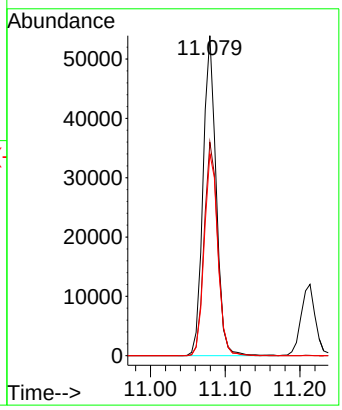




#62
4-Bromofluorobenzene
Concen: 57.531 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 95 Resp: 6552

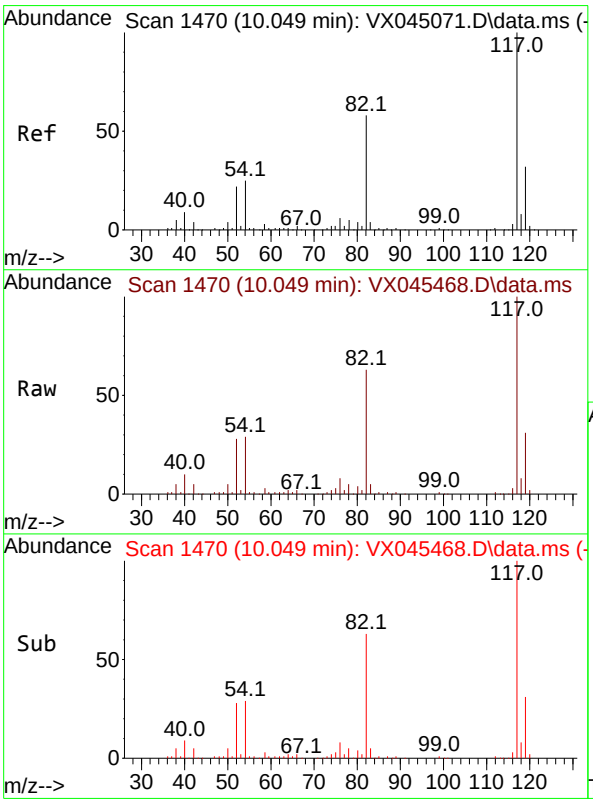
Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	148.2
176	65.6	0.0	141.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

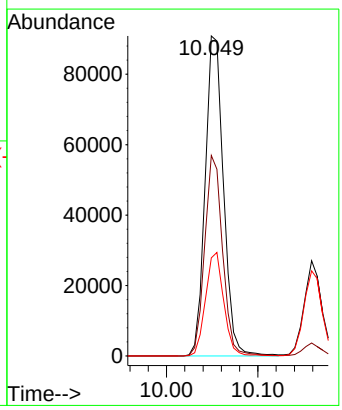
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

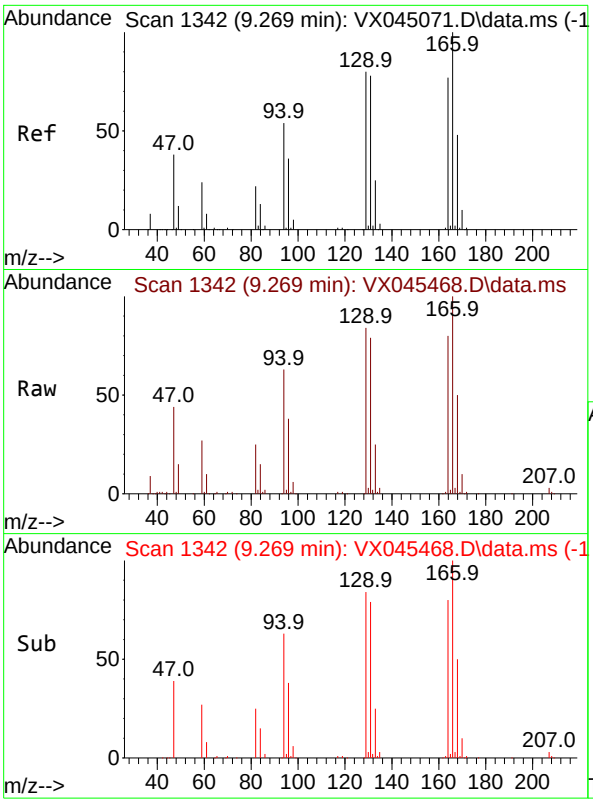


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:117 Resp: 126420

Ion	Ratio	Lower	Upper
117	100		
82	62.6	46.3	69.5
119	30.6	25.7	38.5

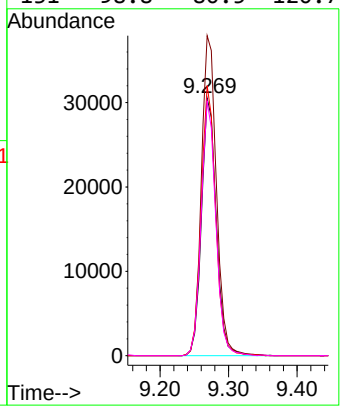




#64
Tetrachloroethene
Concen: 56.686 ug/l
RT: 9.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:164 Resp: 4589

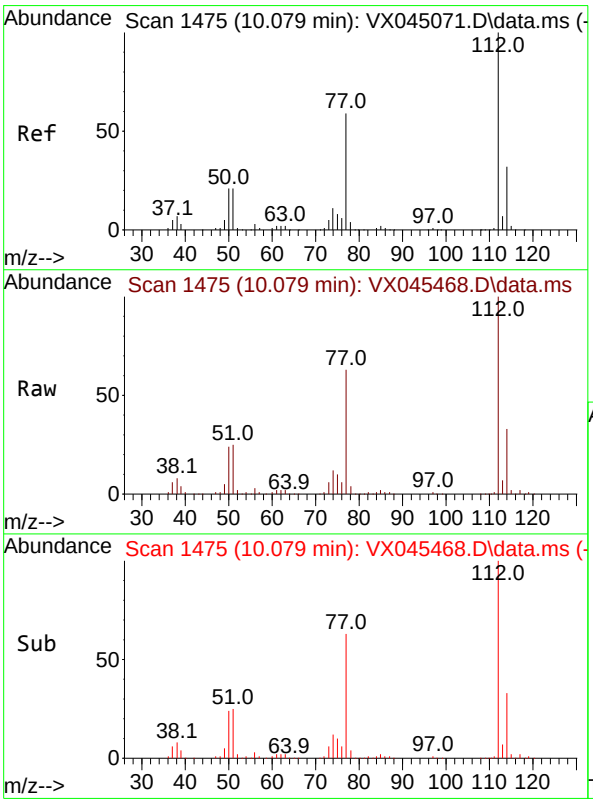
Ion	Ratio	Lower	Upper
164	100		
166	124.3	103.6	155.4
129	104.9	82.7	124.1
131	98.8	80.5	120.7



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

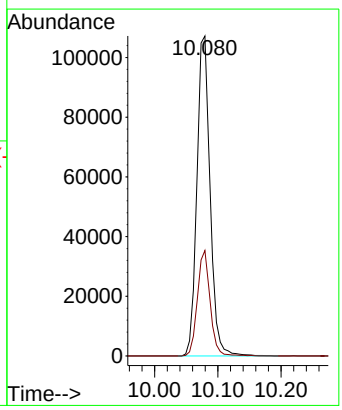
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

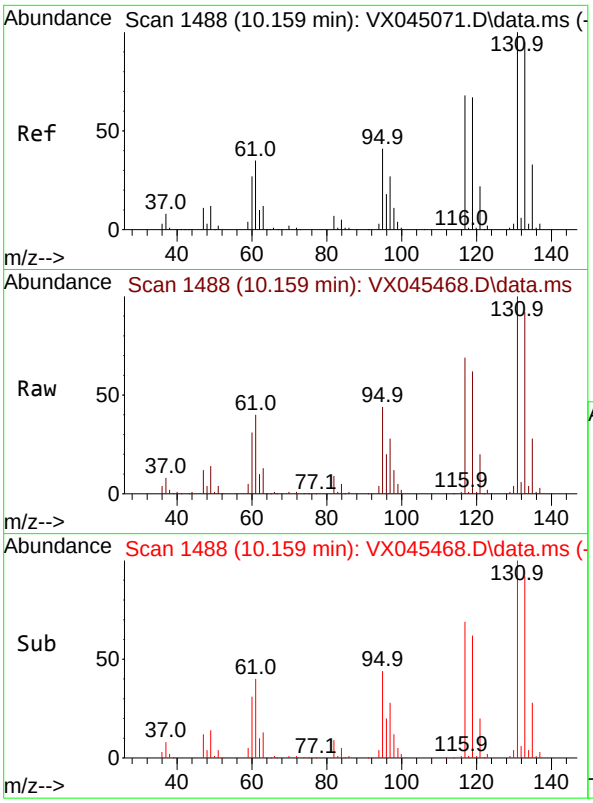


#65
Chlorobenzene
Concen: 58.324 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:112 Resp: 156019

Ion	Ratio	Lower	Upper
112	100		
114	32.9	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 59.230 ug/l
RT: 10.159 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

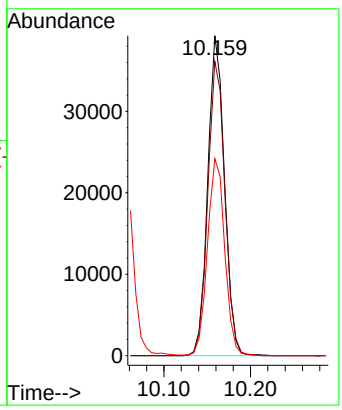
Tgt Ion:131 Resp: 5276

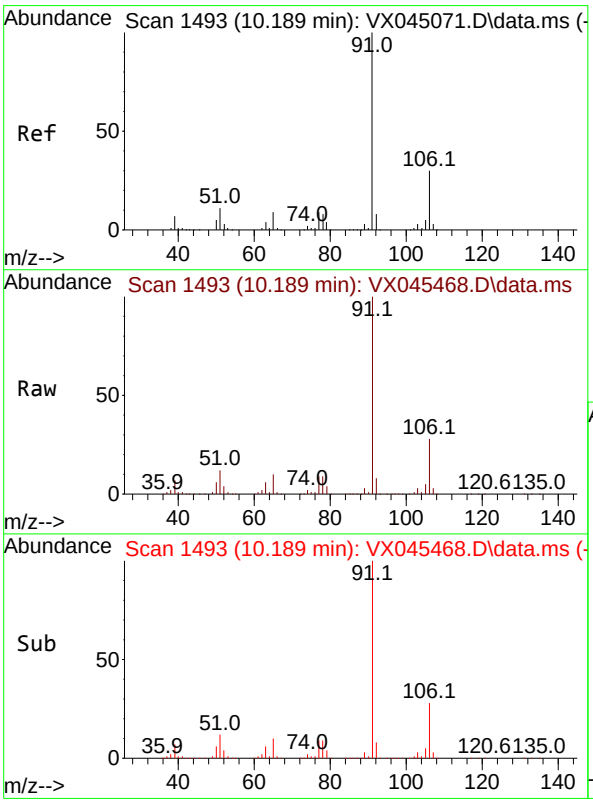
Ion	Ratio	Lower	Upper
131	100		
133	93.8	48.6	145.9
119	63.6	33.9	101.7

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

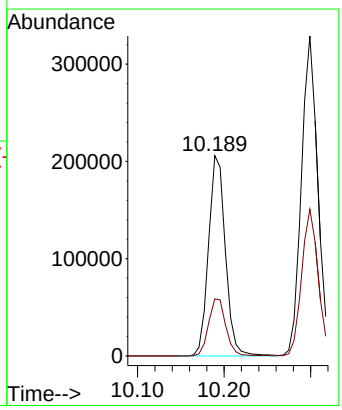


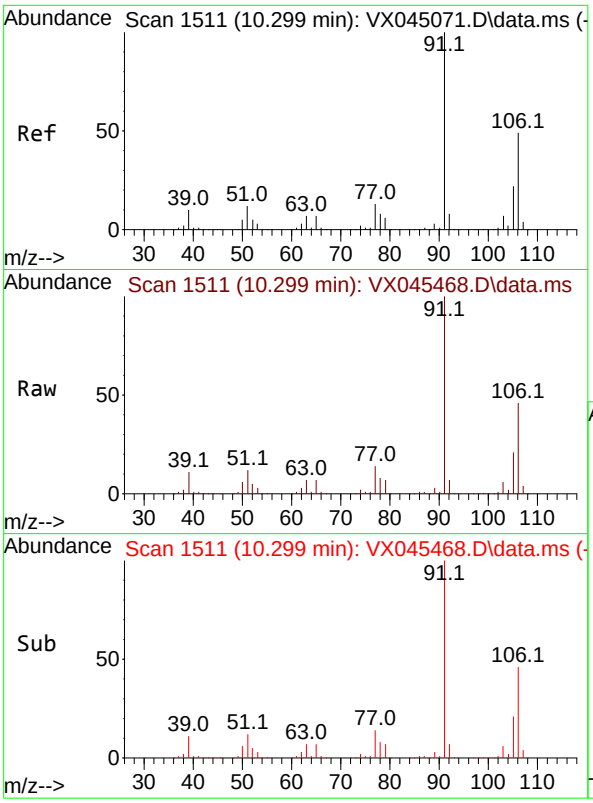


#67
Ethyl Benzene
Concen: 59.770 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 91 Resp: 278593

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.9	35.9

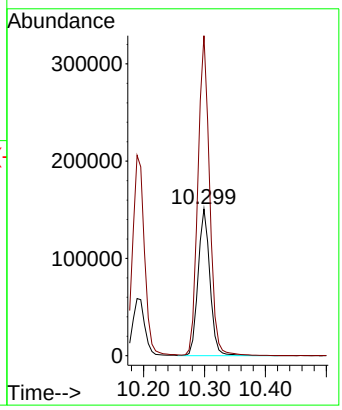




#68
m/p-Xylenes
Concen: 118.876 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:106 Resp: 20283

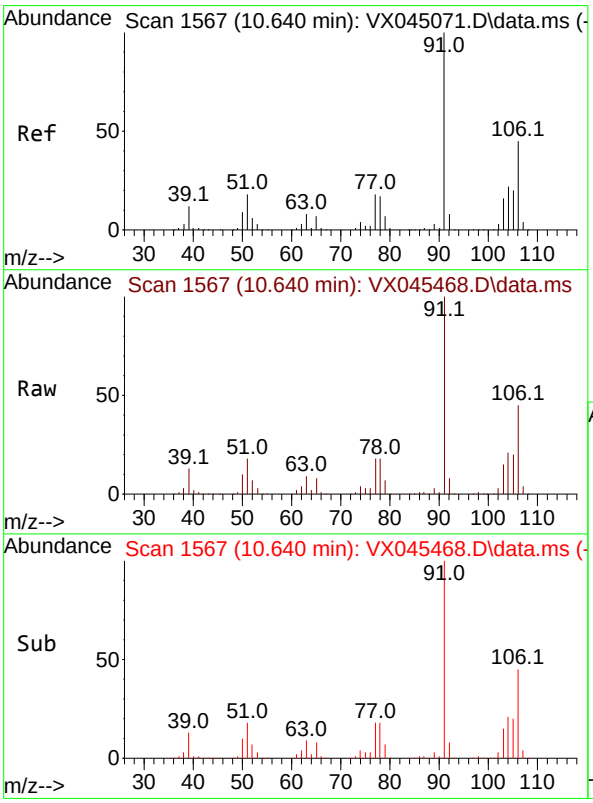
Ion	Ratio	Lower	Upper
106	100		
91	216.4	165.4	248.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

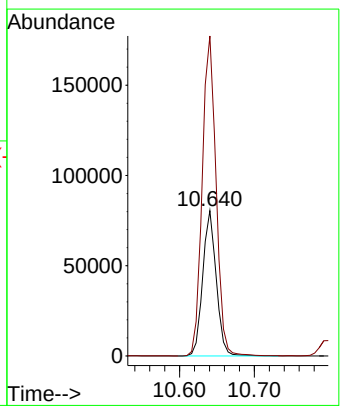
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

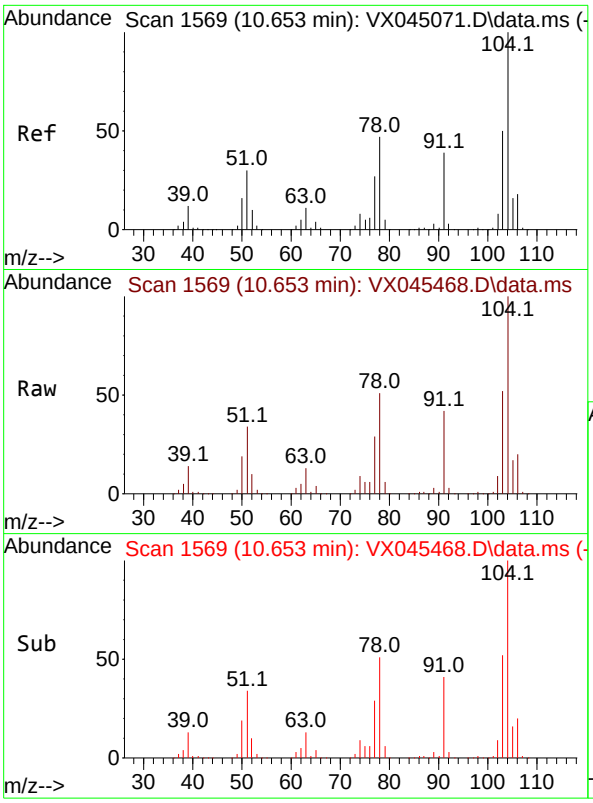


#69
o-Xylene
Concen: 58.702 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:106 Resp: 101021

Ion	Ratio	Lower	Upper
106	100		
91	226.2	109.9	329.6





#70
Styrene
Concen: 60.884 ug/l
RT: 10.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

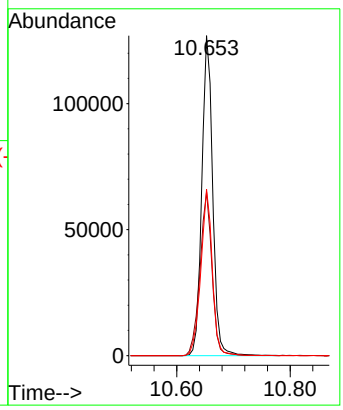
Tgt Ion:104 Resp: 16953

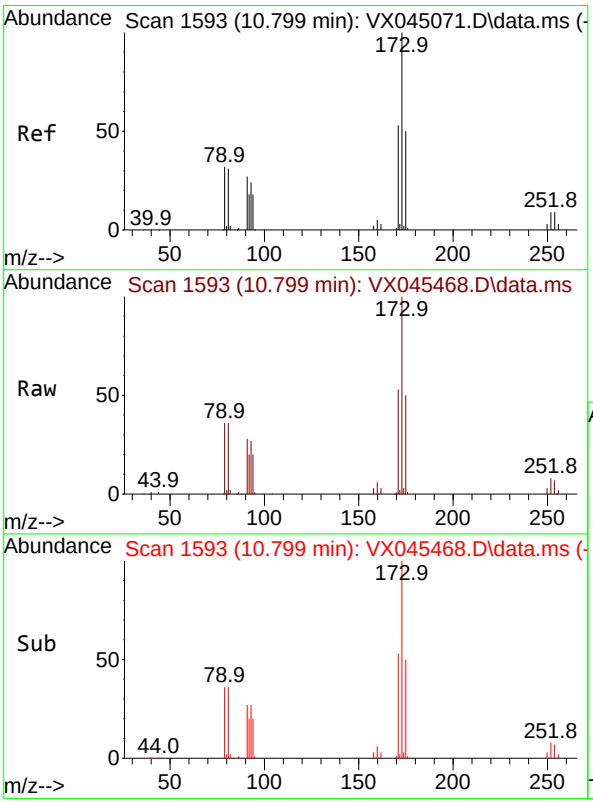
Ion	Ratio	Lower	Upper
104	100		
78	56.7	42.2	63.4
103	55.0	43.8	65.8

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

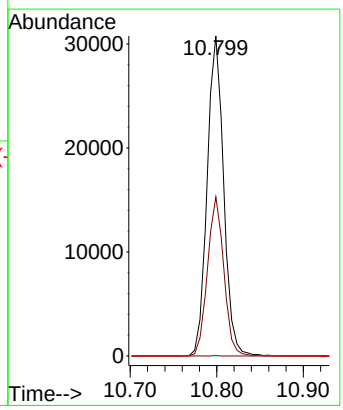


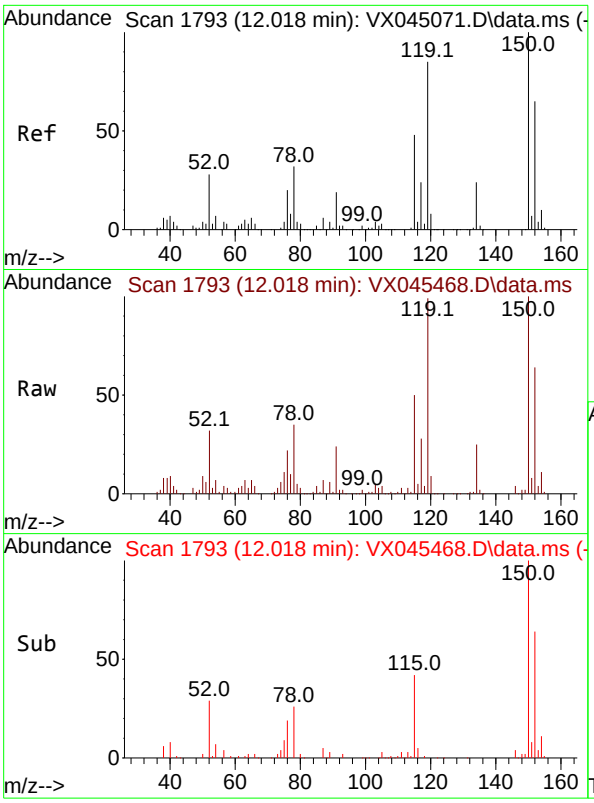


#71
Bromoform
Concen: 60.492 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:173 Resp: 40637

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.6	73.6
254	0.0	0.0	0.0#

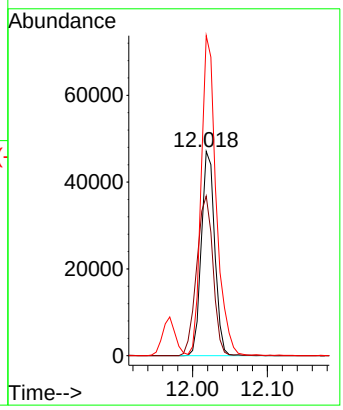




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:152 Resp: 5864

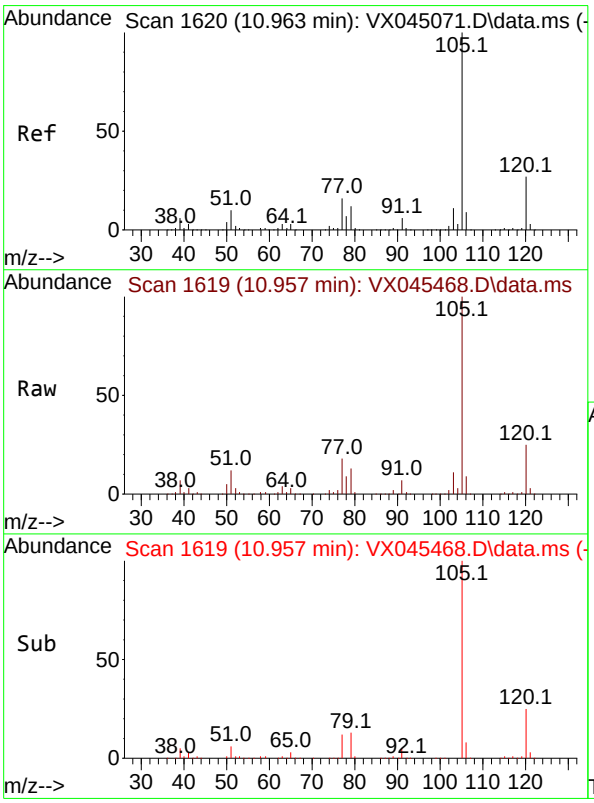
Ion	Ratio	Lower	Upper
152	100		
115	95.2	44.2	132.6
150	174.3	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

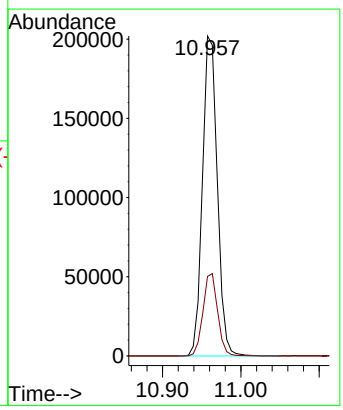
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

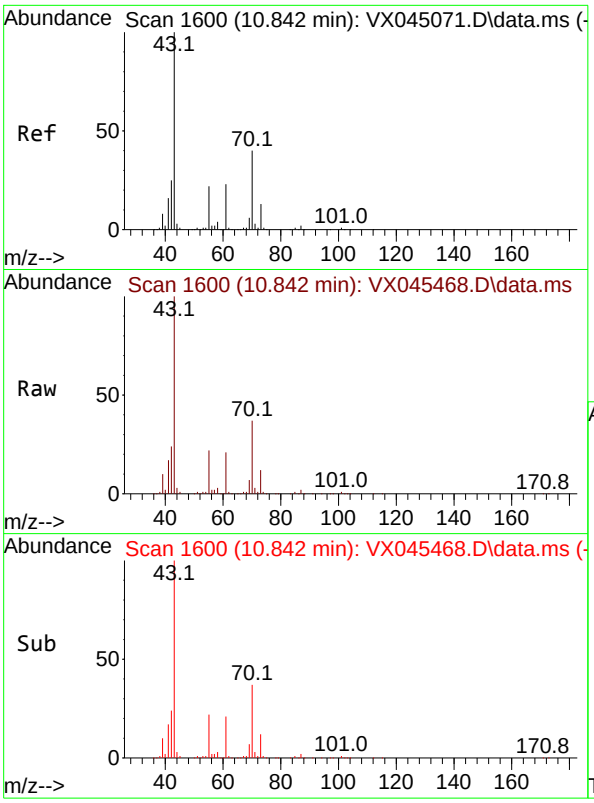


#73
Isopropylbenzene
Concen: 58.007 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:105 Resp: 265519

Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.2	39.5

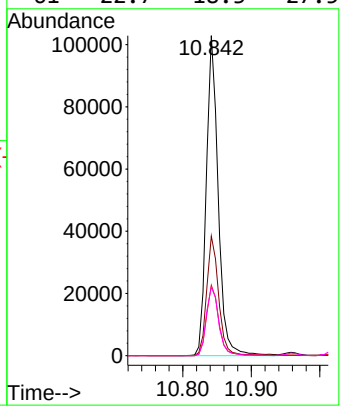




#74
N-amyl acetate
Concen: 57.873 ug/l
RT: 10.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 12430

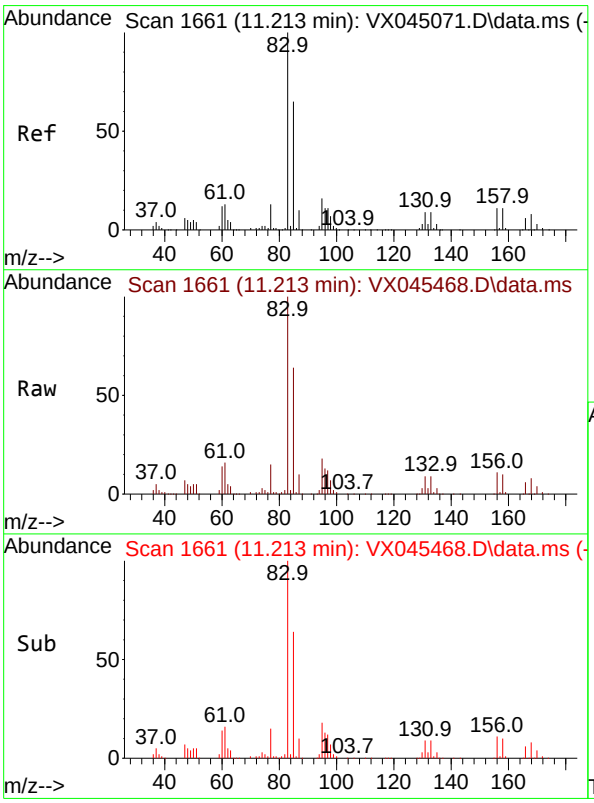
Ion	Ratio	Lower	Upper
43	100		
70	37.8	31.8	47.6
55	22.7	18.3	27.5
61	22.7	18.3	27.5



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

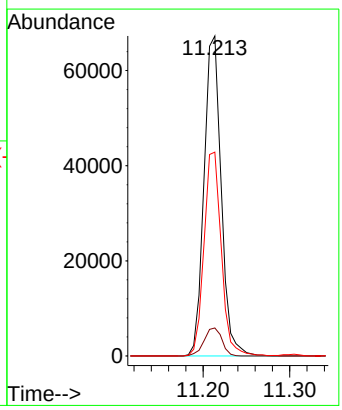
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

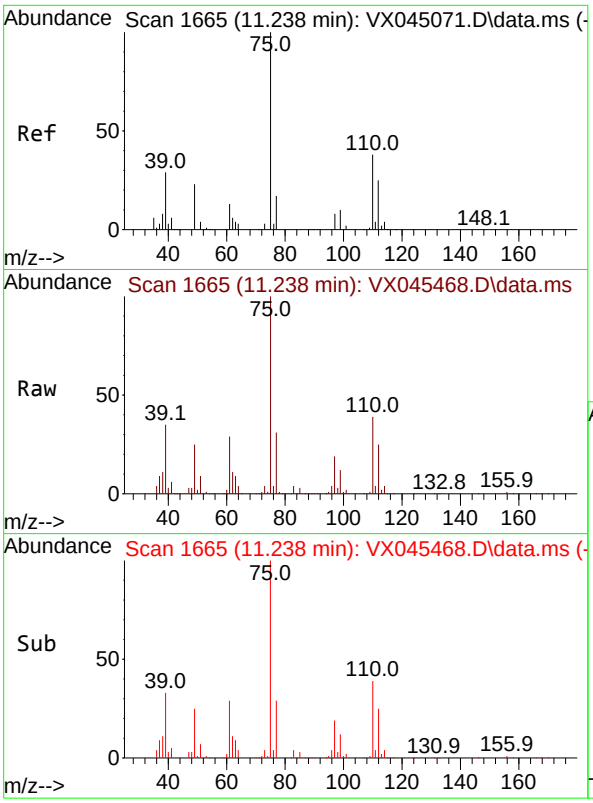


#75
1,1,2,2-Tetrachloroethane
Concen: 55.205 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 83 Resp: 92728

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.4
85	64.2	31.7	95.1





#76
1,2,3-Trichloropropane
Concen: 56.221 ug/l m
RT: 11.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

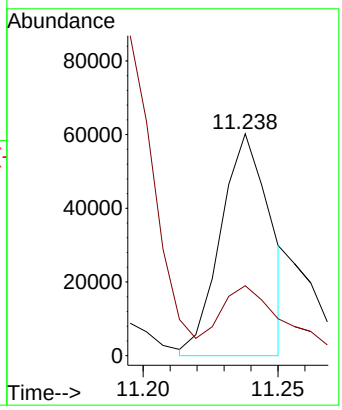
Tgt Ion: 75 Resp: 7673

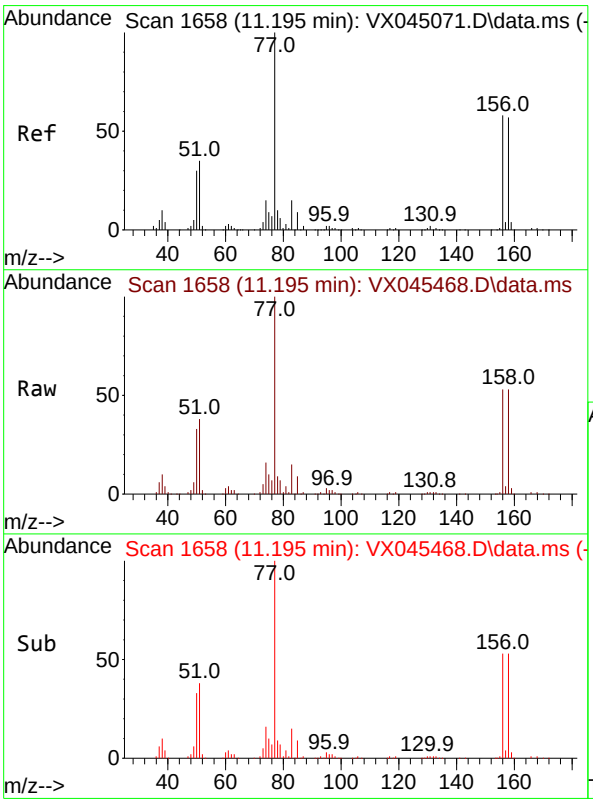
Ion	Ratio	Lower	Upper
75	100		
77	41.2	20.7	62.1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

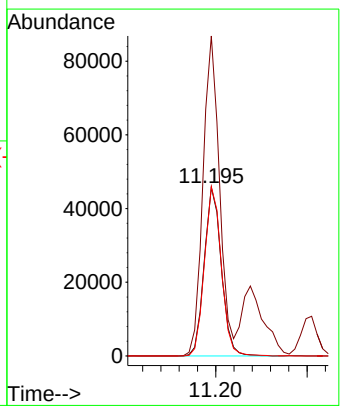


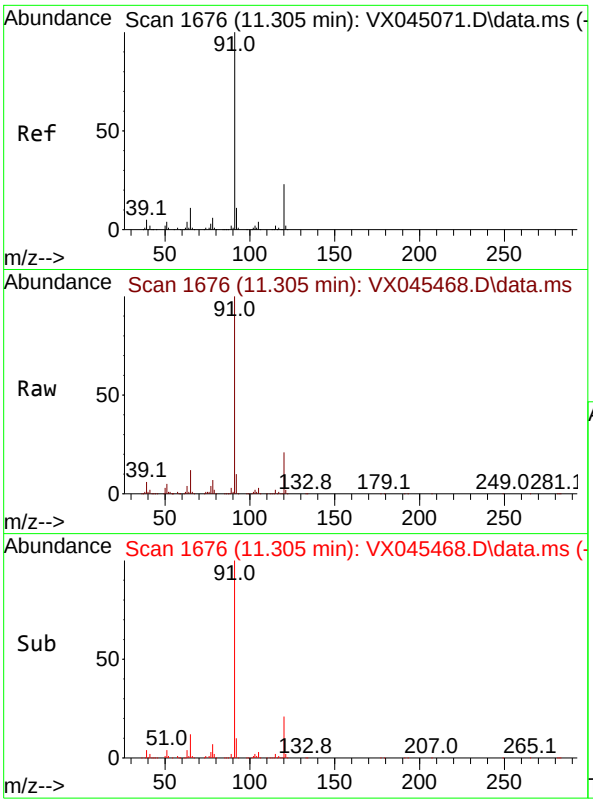


#77
Bromobenzene
Concen: 54.922 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:156 Resp: 59315

Ion	Ratio	Lower	Upper
156	100		
77	183.6	85.8	257.4
158	99.2	48.4	145.2





#78
n-propylbenzene
Concen: 59.924 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

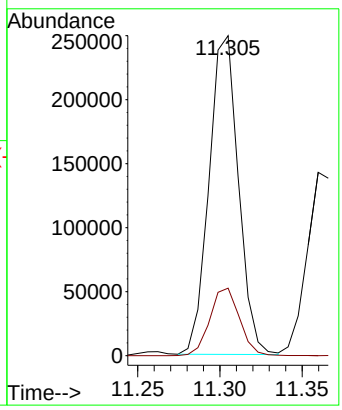
Tgt Ion: 91 Resp: 30984

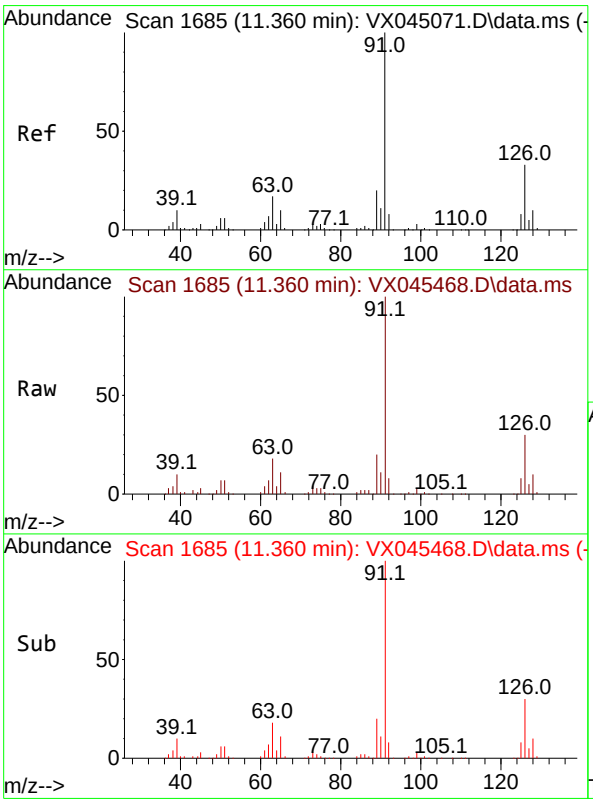
Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

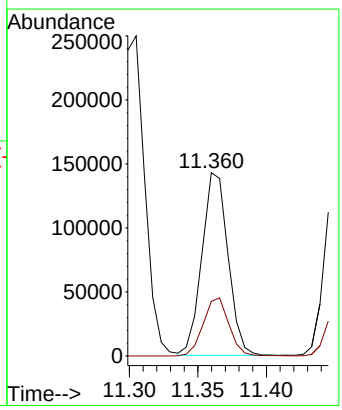


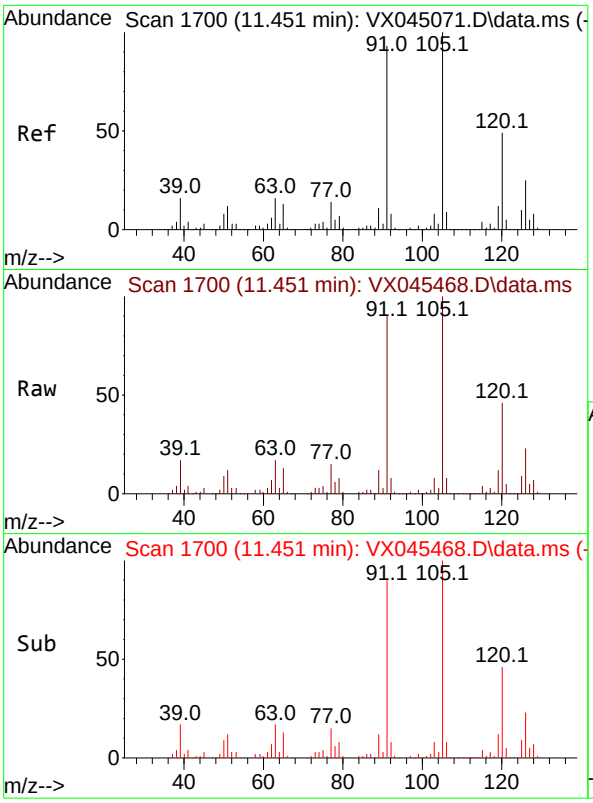


#79
2-Chlorotoluene
Concen: 57.349 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 91 Resp: 188852

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.4	49.4

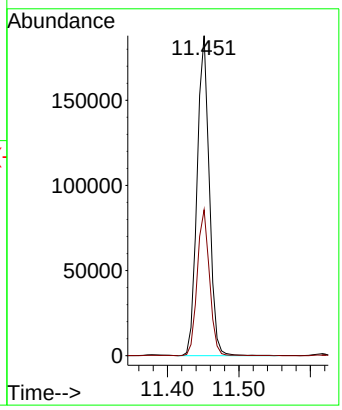




#80
1,3,5-Trimethylbenzene
Concen: 59.996 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:105 Resp: 22205

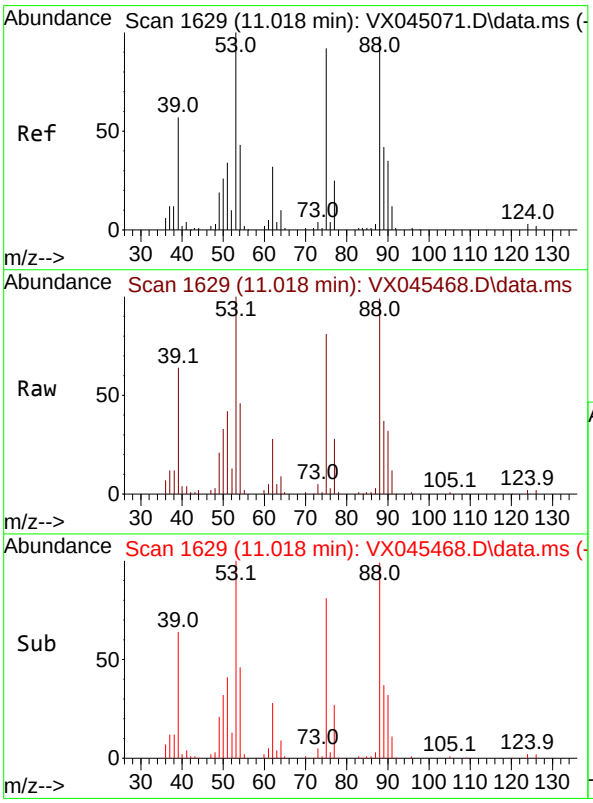
Ion	Ratio	Lower	Upper
105	100		
120	45.8	24.1	72.2



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

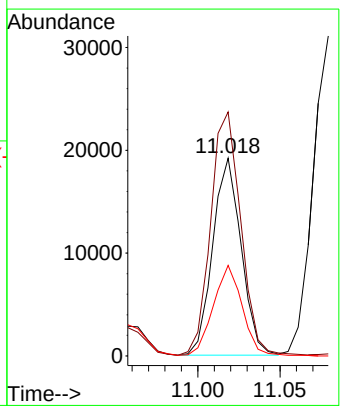
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

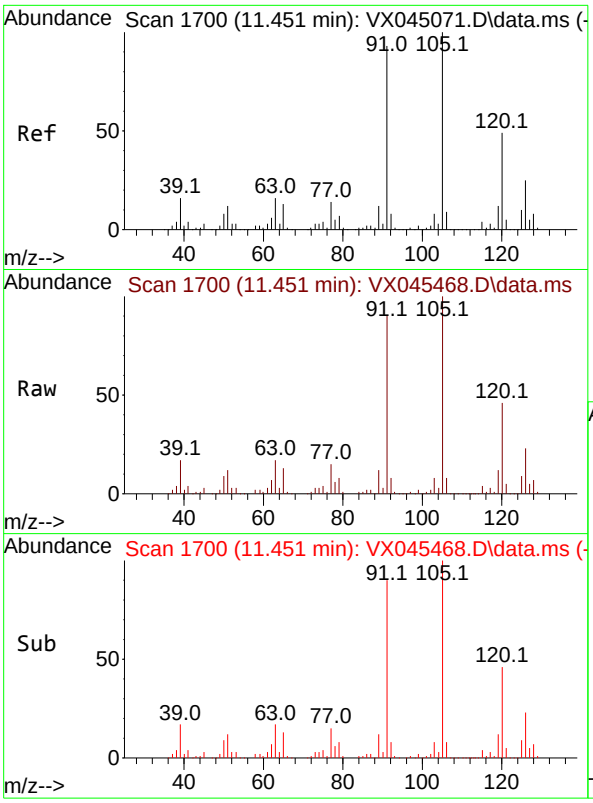


#81
trans-1,4-Dichloro-2-butene
Concen: 57.718 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 23021

Ion	Ratio	Lower	Upper
75	100		
53	130.6	88.5	132.7
89	47.1	36.2	54.4

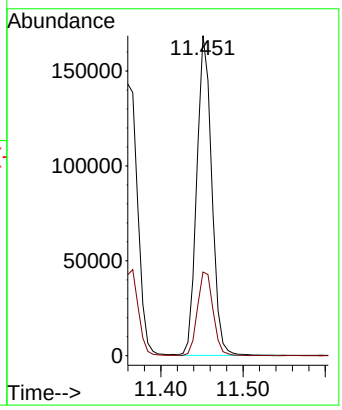




#82
4-Chlorotoluene
Concen: 59.504 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 91 Resp: 21355

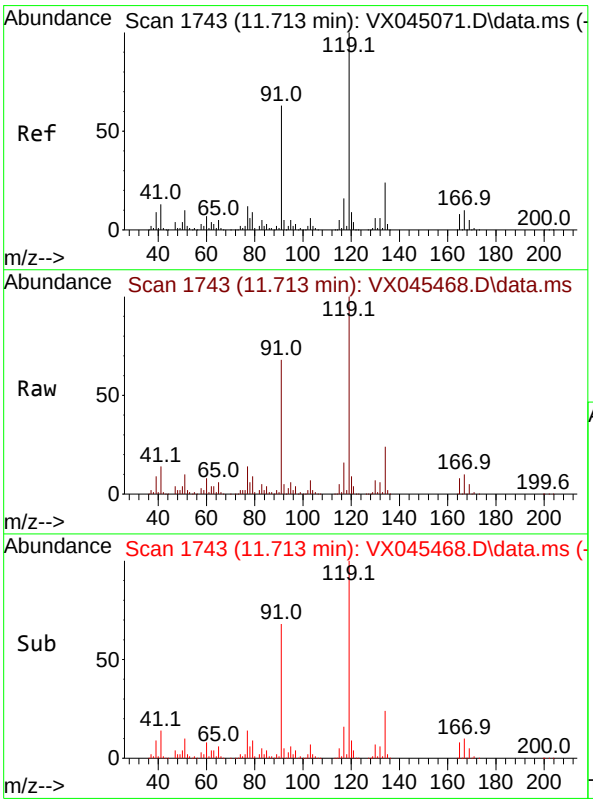
Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.1	42.4



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

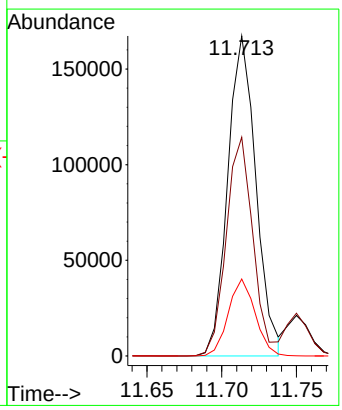
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

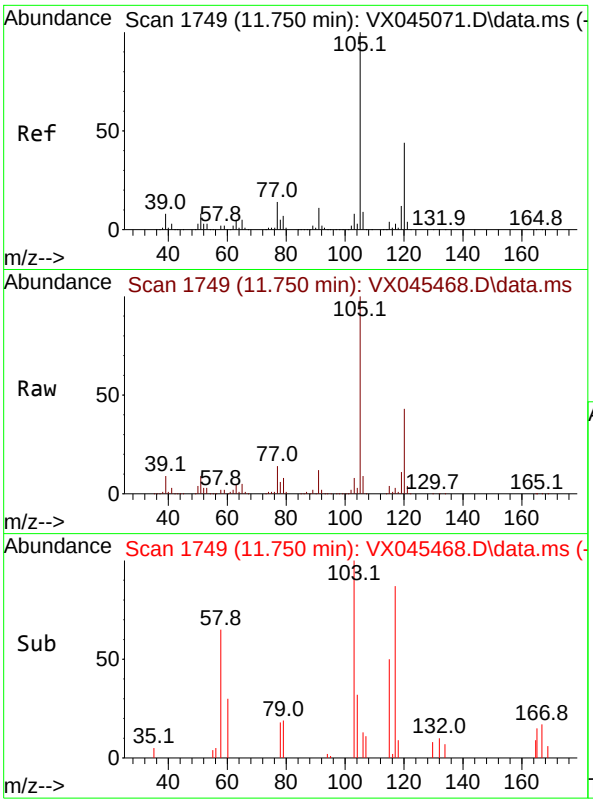


#83
tert-Butylbenzene
Concen: 57.694 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:119 Resp: 219401

Ion	Ratio	Lower	Upper
119	100		
91	65.1	30.7	92.1
134	22.9	11.7	35.0





#84
1,2,4-Trimethylbenzene
Concen: 59.599 ug/l
RT: 11.750 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

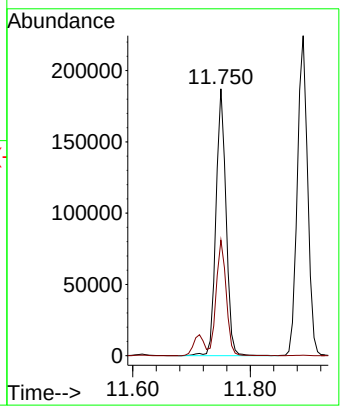
Tgt Ion:105 Resp: 22195

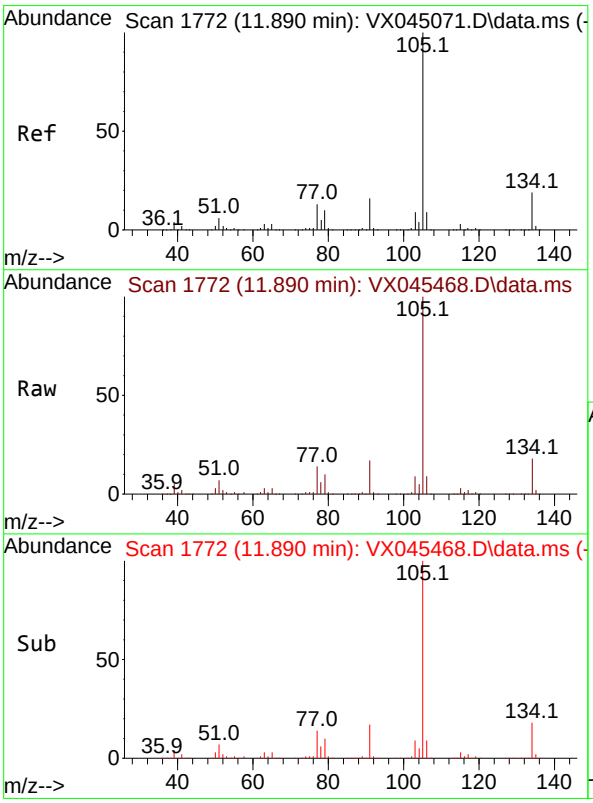
Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.1	66.1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

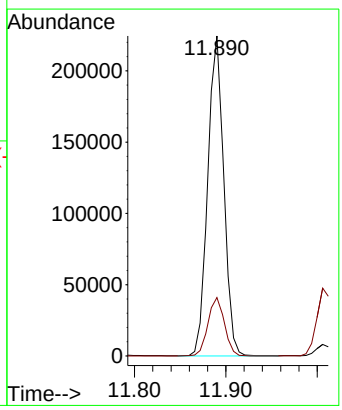


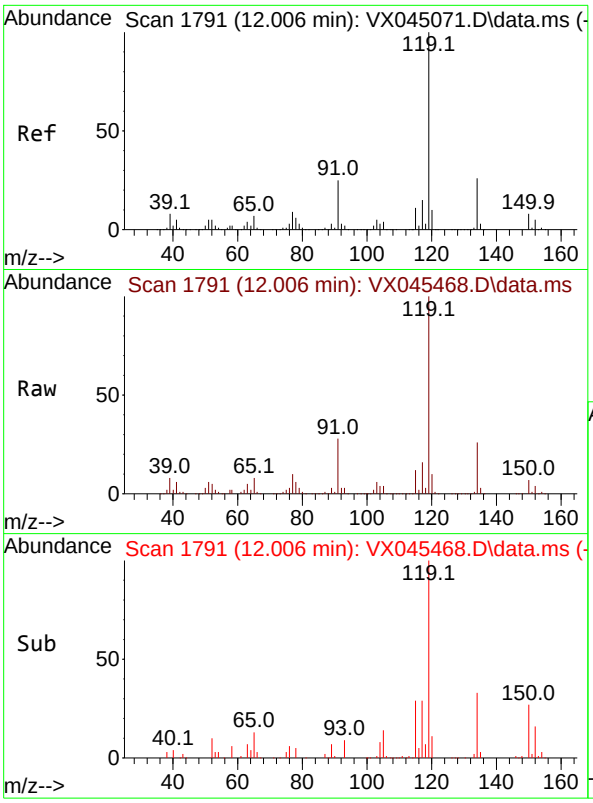


#85
sec-Butylbenzene
Concen: 59.984 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:105 Resp: 273244

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.4





#86
p-Isopropyltoluene
Concen: 60.146 ug/l
RT: 12.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

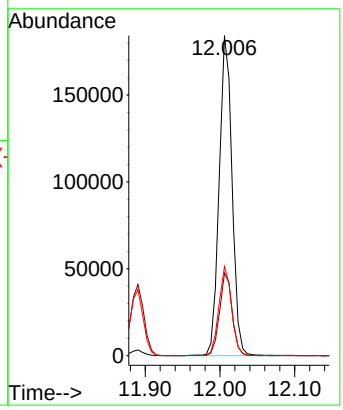
Tgt Ion:119 Resp: 22141

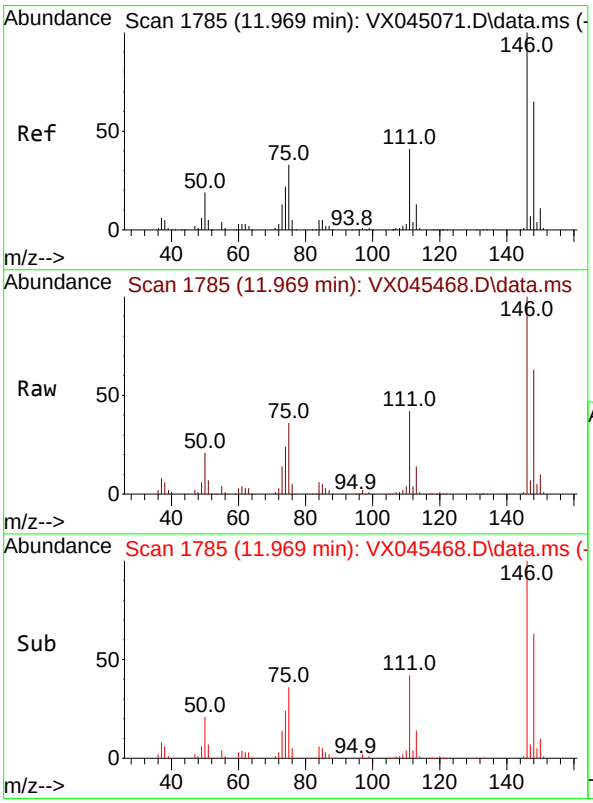
Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.9	38.6
91	27.3	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

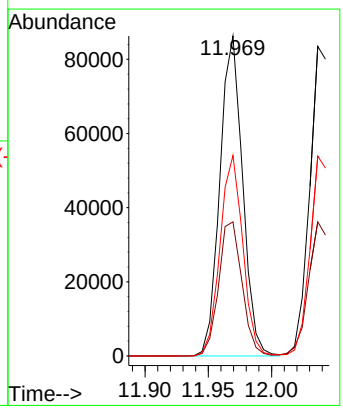


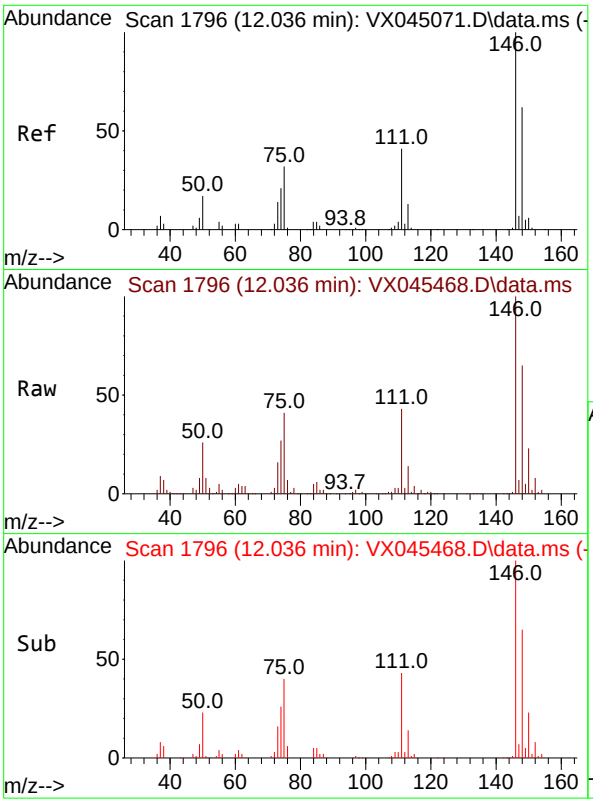


#87
1,3-Dichlorobenzene
Concen: 55.961 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:146 Resp: 107816

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.4
148	62.7	31.9	95.7

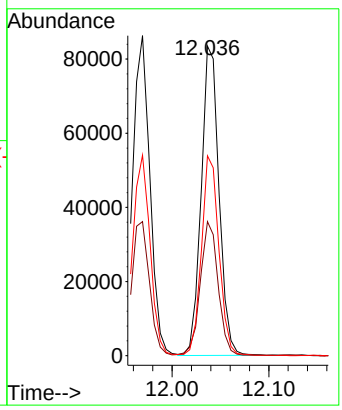




#88
1,4-Dichlorobenzene
Concen: 54.842 ug/l
RT: 12.036 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:146 Resp: 10689

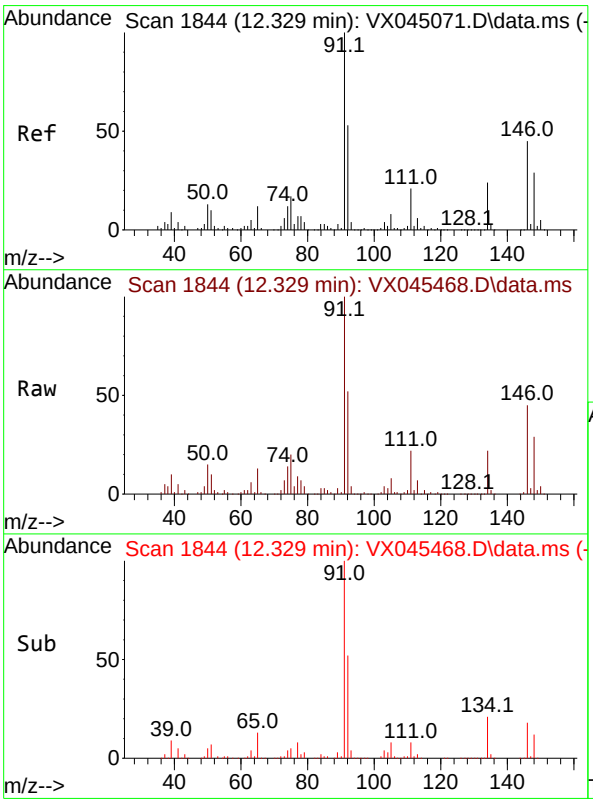
Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.2	60.5
148	63.8	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

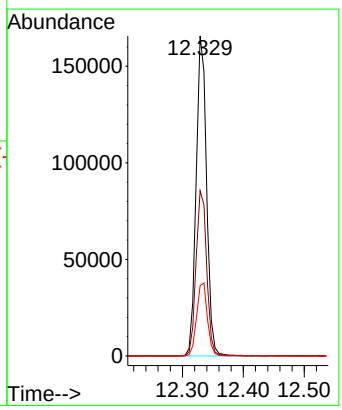
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

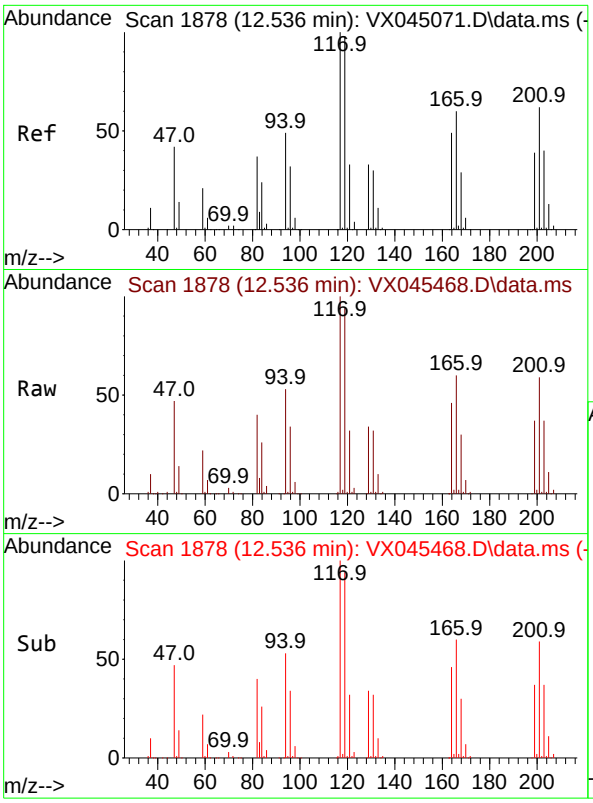


#89
n-Butylbenzene
Concen: 61.962 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 91 Resp: 196457

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.7	80.0
134	23.5	12.2	36.6

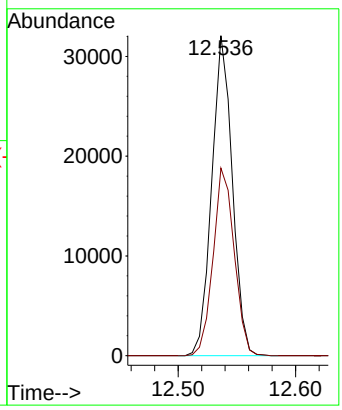




#90
Hexachloroethane
Concen: 58.539 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:117 Resp: 3897

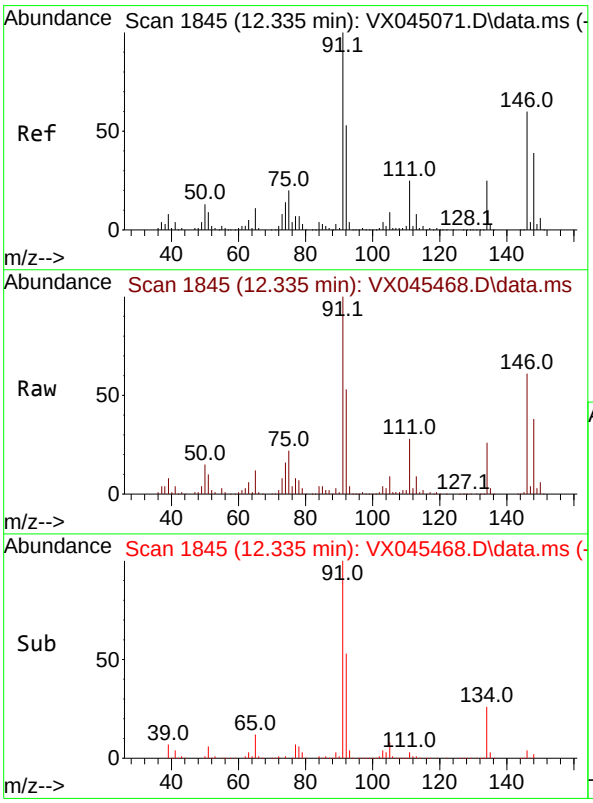
Ion	Ratio	Lower	Upper
117	100		
201	60.3	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

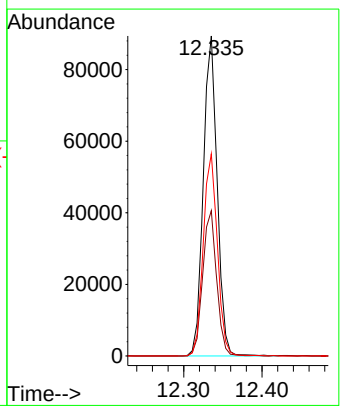
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

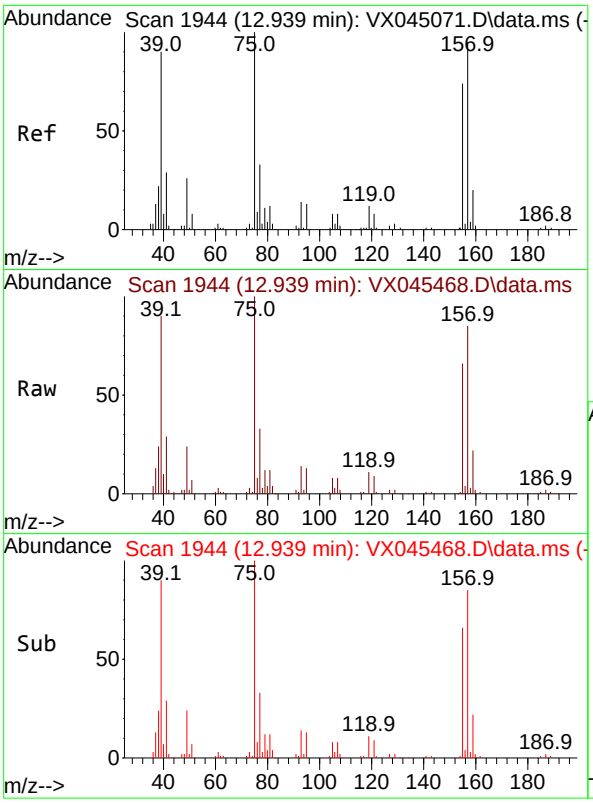


#91
1,2-Dichlorobenzene
Concen: 56.821 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:146 Resp: 109816

Ion	Ratio	Lower	Upper
146	100		
111	45.6	21.6	65.0
148	64.4	31.9	95.9





#92
1,2-Dibromo-3-Chloropropane
Concen: 64.546 ug/l
RT: 12.939 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

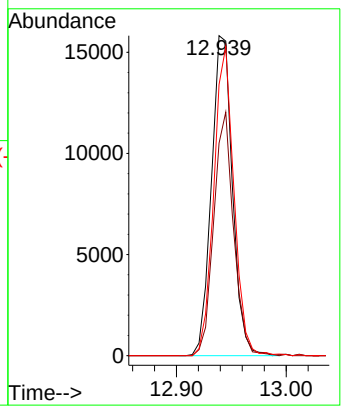
Tgt Ion: 75 Resp: 2112

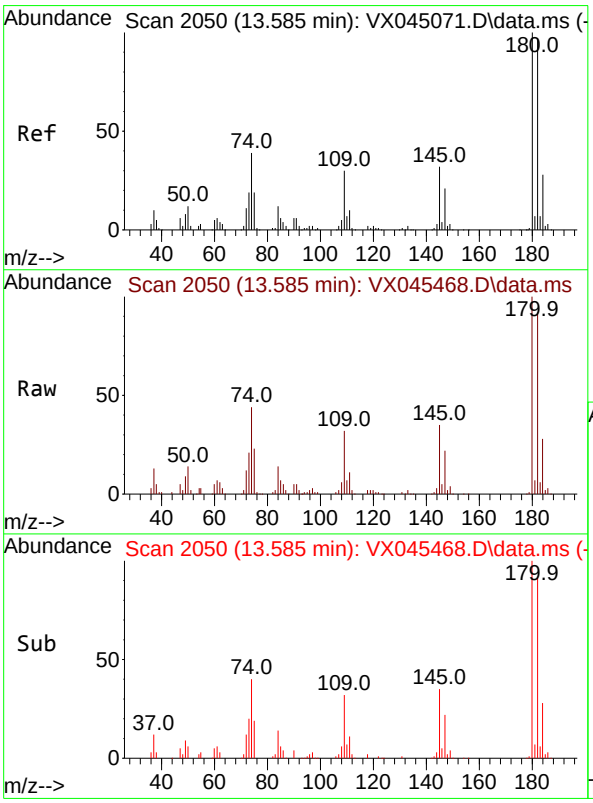
Ion	Ratio	Lower	Upper
75	100		
155	72.0	39.6	118.7
157	92.5	51.1	153.4

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

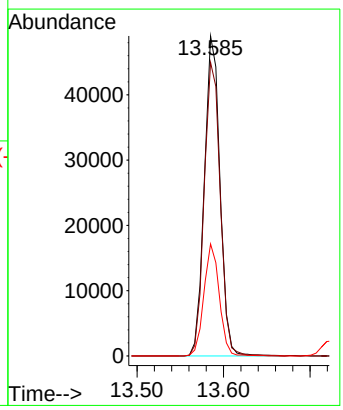


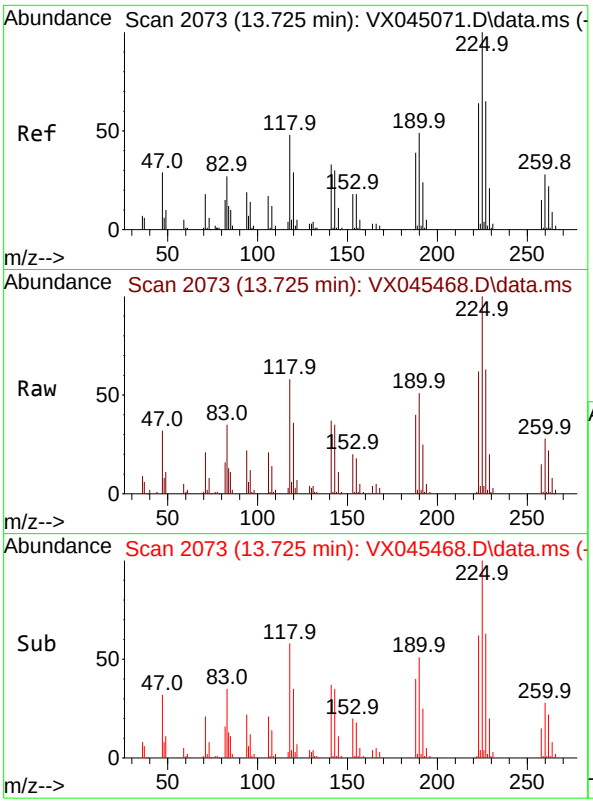


#93
1,2,4-Trichlorobenzene
Concen: 55.821 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:180 Resp: 61430

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.9
145	34.5	16.3	48.9

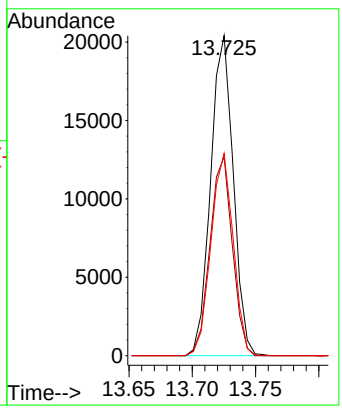




#94
Hexachlorobutadiene
Concen: 56.244 ug/l
RT: 13.725 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:225 Resp: 2537

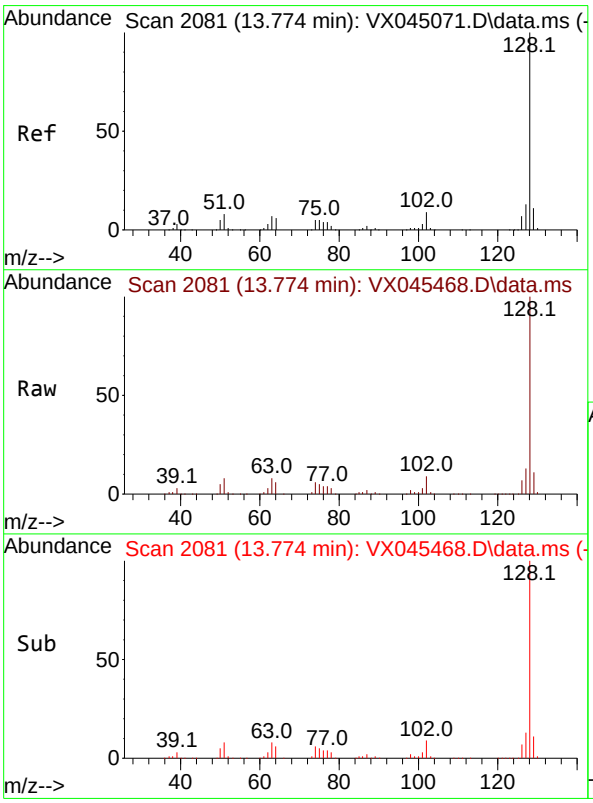
Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.9	95.7
227	62.3	31.4	94.0



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

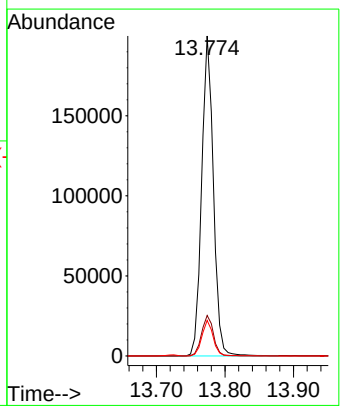
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

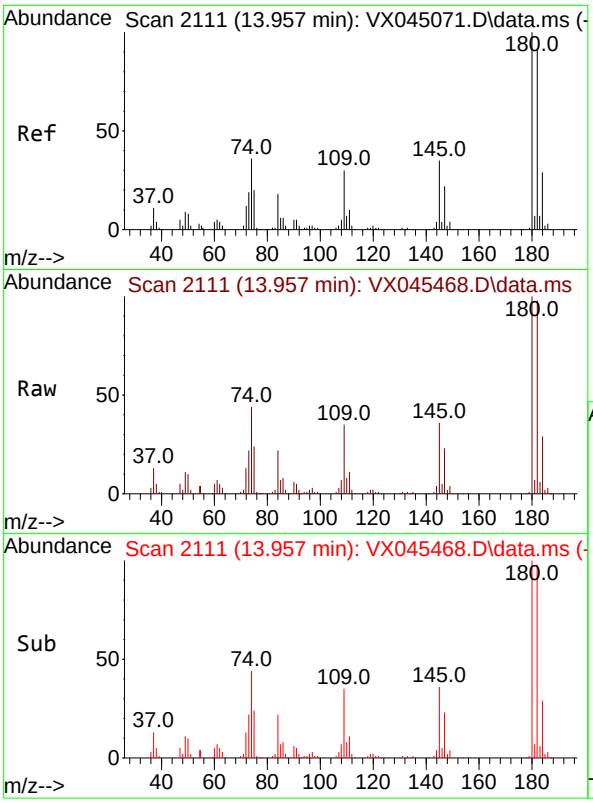


#95
Naphthalene
Concen: 56.338 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:128 Resp: 238208

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.7	8.7	13.1

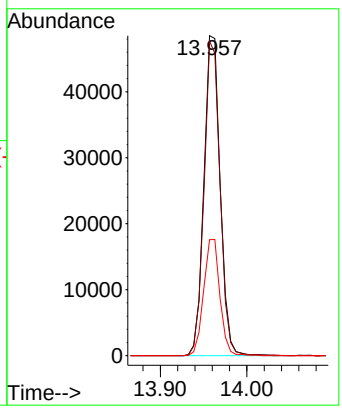




#96
1,2,3-Trichlorobenzene
Concen: 54.598 ug/l
RT: 13.957 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:180 Resp: 6338

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.6
145	36.3	17.0	50.9



Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320MSD	SDG No.:	Q1629
Lab Sample ID:	Q1629-16MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045463.D	1		03/26/25 12:33	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	61.4		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	48.8		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	48.1		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	55.4		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	56.6		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	53.1		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	58.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	52.9		0.23	0.75	1.00	ug/L
67-64-1	Acetone	260		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	50.0		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	53.7		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	49.5		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	50.6		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	53.1		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	52.7		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	54.9		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	270		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	58.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	52.9		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	48.4		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	55.1		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	57.6		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	60.0		0.16	0.50	1.00	ug/L
71-43-2	Benzene	53.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	60.7		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	54.0		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	54.1		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	57.6		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	290		0.68	2.50	5.00	ug/L
108-88-3	Toluene	55.7		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320MSD	SDG No.:	Q1629
Lab Sample ID:	Q1629-16MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045463.D	1		03/26/25 12:33	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	61.9		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	59.3		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	54.5		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	300		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	58.5		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	56.7		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	53.5		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	54.3		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	56.4		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	54.6		0.12	0.50	1.00	ug/L
100-42-5	Styrene	57.2		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	56.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	56.7		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.3		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	53.6		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	53.5		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	53.2		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	60.7		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	53.9		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.6		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	41.9		81 - 118		84%	SPK: 50
1868-53-7	Dibromofluoromethane	40.1		80 - 119		80%	SPK: 50
2037-26-5	Toluene-d8	38.1	*	89 - 112		76%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.5		85 - 114		85%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	81200	5.55				
540-36-3	1,4-Difluorobenzene	143000	6.757				
3114-55-4	Chlorobenzene-d5	127000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	56900	12.018				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/20/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/21/25
Client Sample ID:	RW09-MW01S-20250320MSD	SDG No.:	Q1629
Lab Sample ID:	Q1629-16MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045463.D	1		03/26/25 12:33	VX032625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations APPROVED
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	81226	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	143287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	127464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56894	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	54130	41.896	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 83.800%			
35) Dibromofluoromethane	5.379	113	38393	40.071	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 80.140%			
50) Toluene-d8	8.647	98	132471	38.137	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 76.280%#			
62) 4-Bromofluorobenzene	11.079	95	48948	42.526	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	62827	61.448	ug/l	95
3) Chloromethane	1.307	50	60998	48.750	ug/l	97
4) Vinyl Chloride	1.374	62	59665	48.068	ug/l	98
5) Bromomethane	1.593	94	27026	55.386	ug/l	99
6) Chloroethane	1.666	64	32429	56.641	ug/l	96
7) Trichlorofluoromethane	1.874	101	87276	53.113	ug/l	98
8) Diethyl Ether	2.130	74	30049	46.753	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	55084	58.349	ug/l	98
10) Methyl Iodide	2.441	142	67143	56.912	ug/l	94
11) Tert butyl alcohol	2.977	59	54896	224.313	ug/l	96
12) 1,1-Dichloroethene	2.306	96	52797	52.898	ug/l	94
13) Acrolein	2.233	56	74311	262.676	ug/l	98
14) Allyl chloride	2.654	41	100846	56.762	ug/l	94
15) Acrylonitrile	3.062	53	170809	260.418	ug/l	98
16) Acetone	2.386	43	156176	260.529	ug/l	98
17) Carbon Disulfide	2.502	76	132938	50.007	ug/l	99
18) Methyl Acetate	2.703	43	71374	49.493	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	179806	53.696	ug/l	97
20) Methylene Chloride	2.782	84	60050	50.570	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	52377	53.118	ug/l	97
22) Diisopropyl ether	3.764	45	191865	53.100	ug/l	95
23) Vinyl Acetate	3.721	43	878011	291.184	ug/l	100
24) 1,1-Dichloroethane	3.605	63	106777	52.729	ug/l	99
25) 2-Butanone	4.556	43	247432	274.214	ug/l	98
26) 2,2-Dichloropropane	4.471	77	78783	82.944	ug/l	94
27) cis-1,2-Dichloroethene	4.483	96	64385	52.894	ug/l	92
28) Bromochloromethane	4.891	49	46754	48.439	ug/l	99
29) Tetrahydrofuran	5.001	42	157525	259.959	ug/l	99
30) Chloroform	5.086	83	110878	55.106	ug/l	98
31) Cyclohexane	5.464	56	96443	54.865	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	93611	57.604	ug/l	98
36) 1,1-Dichloropropene	5.684	75	74229	56.492	ug/l	99
37) Ethyl Acetate	4.715	43	93308	55.110	ug/l	99
38) Carbon Tetrachloride	5.672	117	78280	58.681	ug/l	99
39) Methylcyclohexane	7.373	83	94425	59.974	ug/l	96
40) Benzene	6.031	78	221537	53.392	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	52151	56.964	ug/l		97
42) 1,2-Dichloroethane	6.080	62	90728	60.723	ug/l		97
43) Isopropyl Acetate	6.342	43	145230	58.007	ug/l		98
44) Trichloroethene	7.123	130	52602	53.991	ug/l		99
45) 1,2-Dichloropropane	7.427	63	57716	54.102	ug/l		98
46) Dibromomethane	7.580	93	42651	56.564	ug/l		97
47) Bromodichloromethane	7.818	83	85122	57.553	ug/l		97
48) Methyl methacrylate	7.690	41	75898	60.425	ug/l		93
49) 1,4-Dioxane	7.659	88	26355	994.704	ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	489781	291.351	ug/l		99
52) Toluene	8.714	92	135507	55.663	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	76527	61.892	ug/l		94
54) cis-1,3-Dichloropropene	8.366	75	85476	59.283	ug/l	#	88
55) 1,1,2-Trichloroethane	9.147	97	54644	54.524	ug/l		96
56) Ethyl methacrylate	9.116	69	90492	59.401	ug/l		92
57) 1,3-Dichloropropane	9.305	76	95623	55.134	ug/l		100
59) 2-Hexanone	9.427	43	363249	298.233	ug/l		98
60) Dibromochloromethane	9.519	129	61294	58.493	ug/l		100
61) 1,2-Dibromoethane	9.610	107	56774	56.746	ug/l		97
64) Tetrachloroethene	9.269	164	43684	53.511	ug/l		99
65) Chlorobenzene	10.079	112	146418	54.287	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	49813	55.459	ug/l		97
67) Ethyl Benzene	10.189	91	265098	56.409	ug/l		100
68) m/p-Xylenes	10.299	106	195632	113.714	ug/l		96
69) o-Xylene	10.640	106	94658	54.554	ug/l		94
70) Styrene	10.653	104	160517	57.174	ug/l		97
71) Bromoform	10.799	173	38315	56.569	ug/l	#	98
73) Isopropylbenzene	10.957	105	251806	56.703	ug/l		100
74) N-amyl acetate	10.842	43	122662	58.866	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	86905	53.329	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	73925m	55.826	ug/l		
77) Bromobenzene	11.195	156	55610	53.075	ug/l		94
78) n-propylbenzene	11.299	91	297497	59.305	ug/l		98
79) 2-Chlorotoluene	11.360	91	178326	55.818	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	207078	57.671	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	22458	58.039	ug/l		87
82) 4-Chlorotoluene	11.451	91	201866	57.976	ug/l		98
83) tert-Butylbenzene	11.713	119	206216	55.895	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	207721	57.494	ug/l		97
85) sec-Butylbenzene	11.890	105	254806	57.657	ug/l		99
86) p-Isopropyltoluene	12.006	119	210975	59.073	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	100092	53.550	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	101089	53.457	ug/l		98
89) n-Butylbenzene	12.329	91	185757	60.389	ug/l		99
90) Hexachloroethane	12.536	117	36360	56.286	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	99842	53.249	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19261	60.670	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	57572	53.924	ug/l		99
94) Hexachlorobutadiene	13.725	225	24099	55.056	ug/l		99
95) Naphthalene	13.774	128	215982	52.653	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	59286	52.637	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

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

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

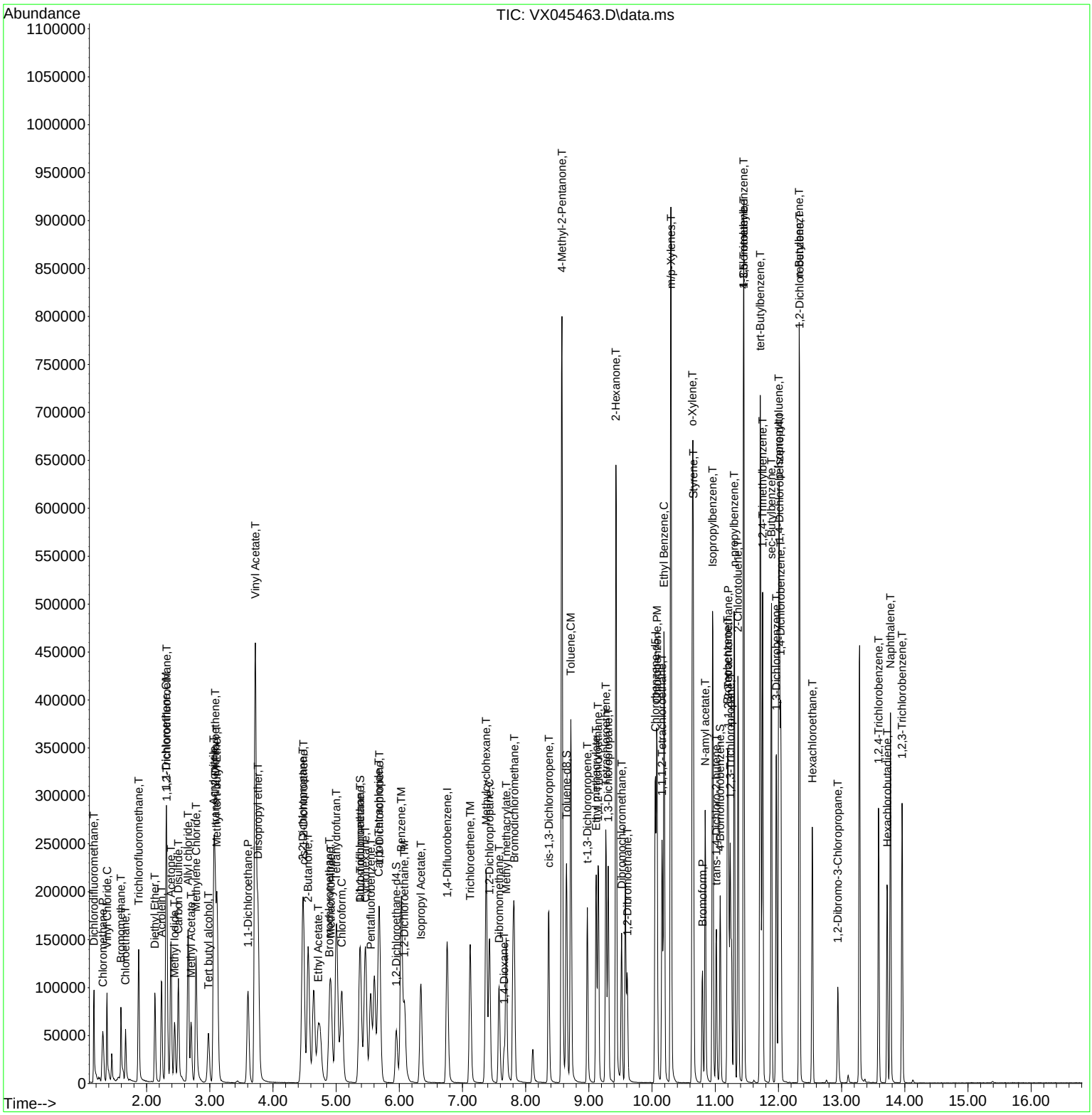
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

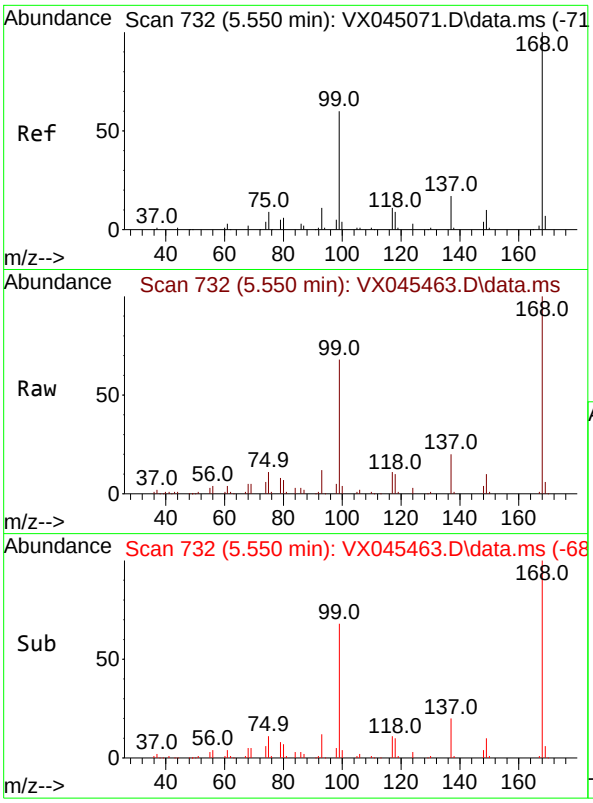
Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

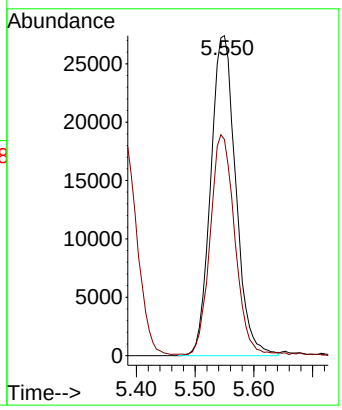




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:168 Resp: 8122

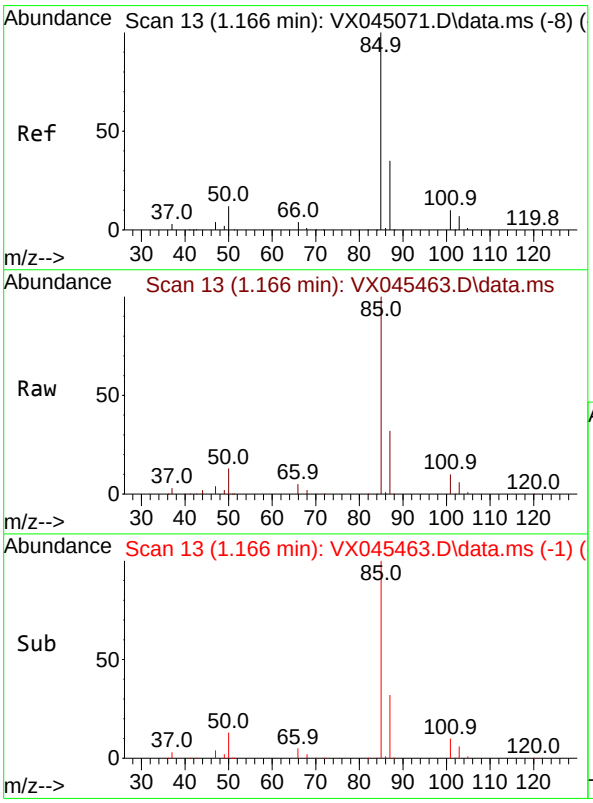
Ion	Ratio	Lower	Upper
168	100		
99	67.1	48.2	72.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations APPROVED

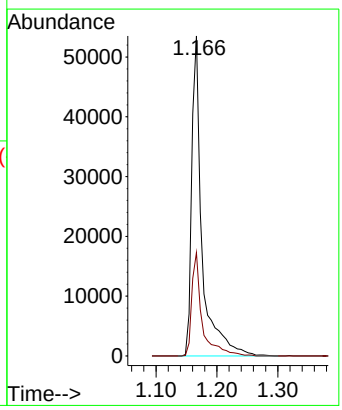
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

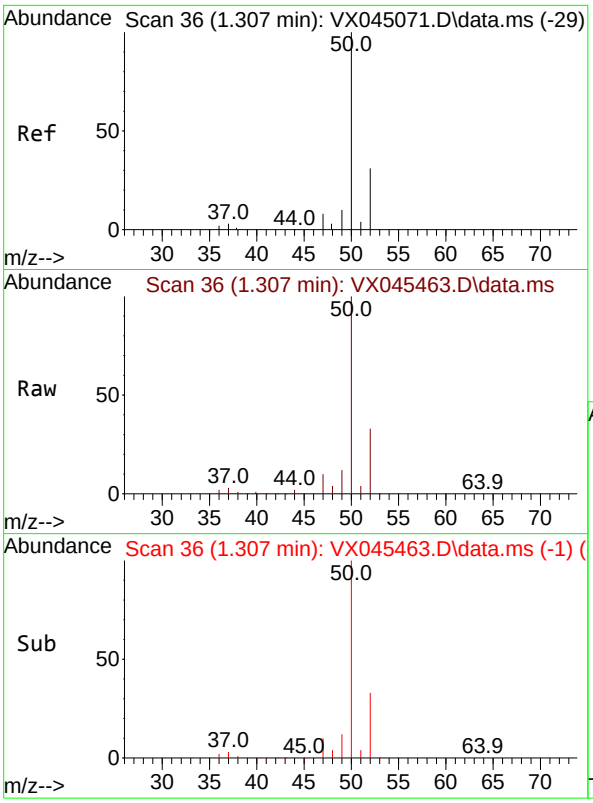


#2
Dichlorodifluoromethane
Concen: 61.448 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 85 Resp: 62827

Ion	Ratio	Lower	Upper
85	100		
87	32.3	17.4	52.3





#3
Chloromethane
Concen: 48.750 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

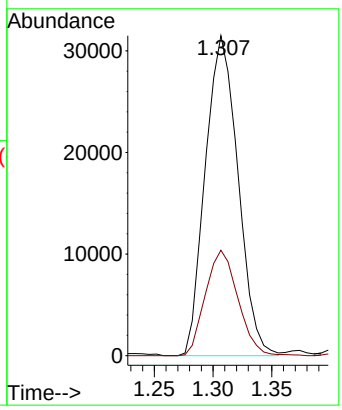
Tgt Ion: 50 Resp: 6099

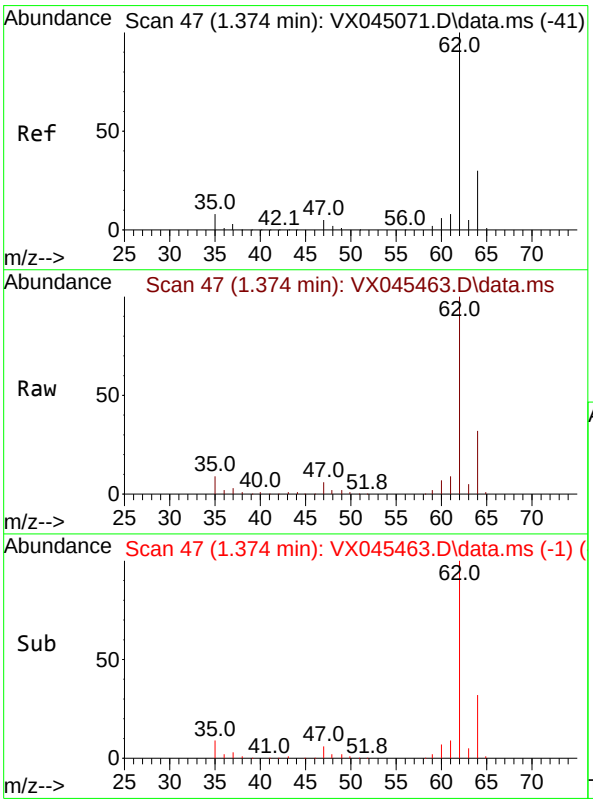
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

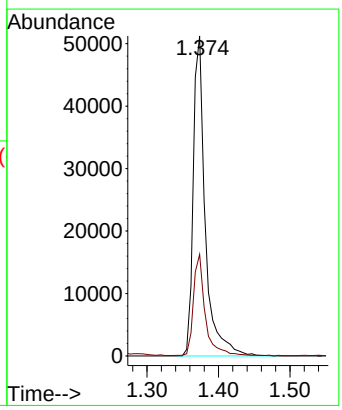


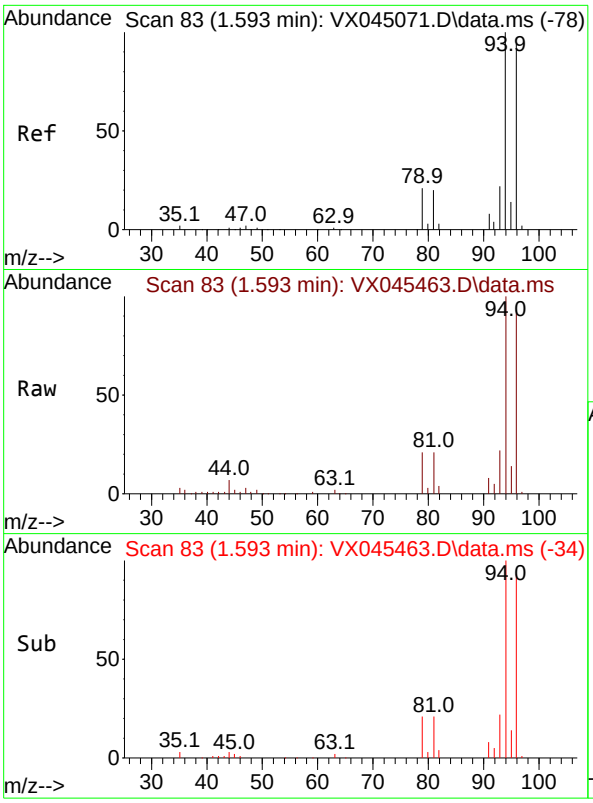


#4
Vinyl Chloride
Concen: 48.068 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 62 Resp: 59665

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.3	36.5

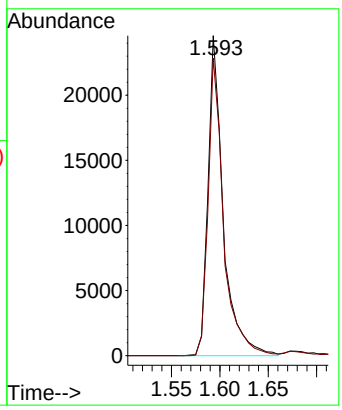




#5
Bromomethane
Concen: 55.386 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 94 Resp: 2702

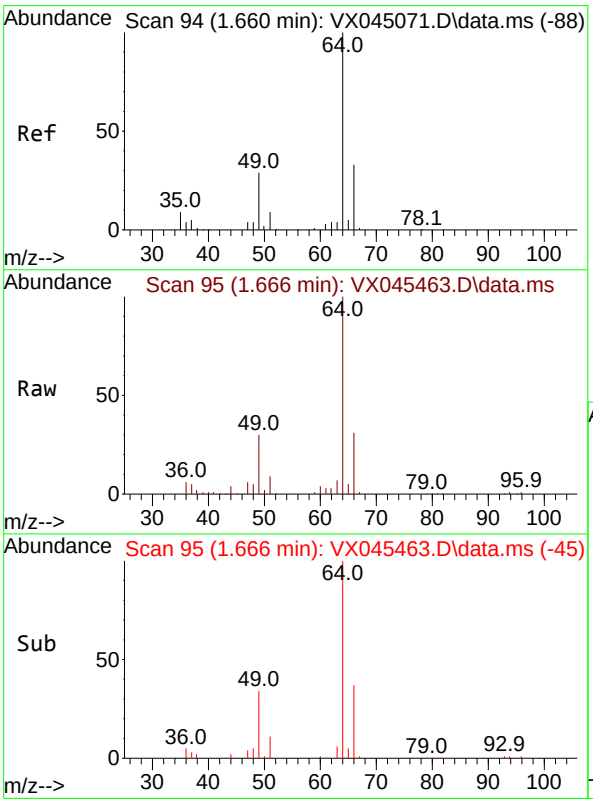
Ion	Ratio	Lower	Upper
94	100		
96	93.0	75.0	112.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

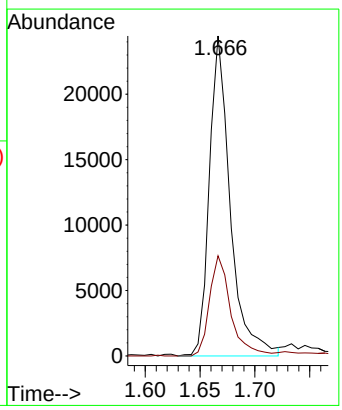
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

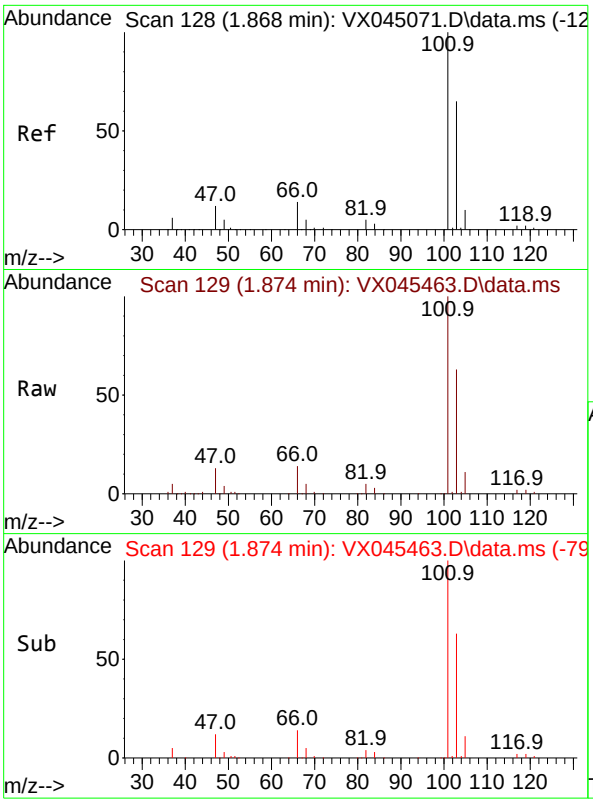


#6
Chloroethane
Concen: 56.641 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 64 Resp: 32429

Ion	Ratio	Lower	Upper
64	100		
66	31.3	26.7	40.1

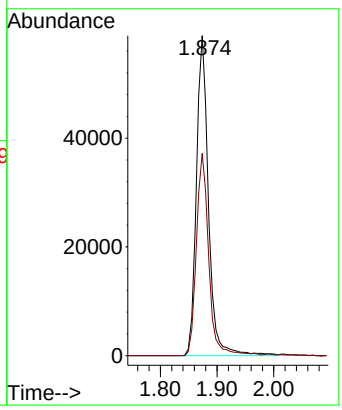




#7
Trichlorofluoromethane
Concen: 53.113 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:101 Resp: 8727

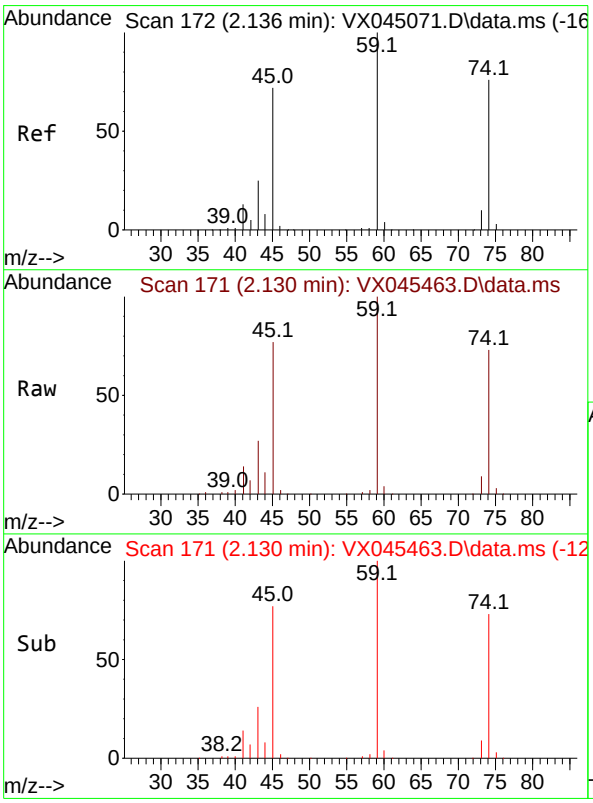
Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.1	78.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

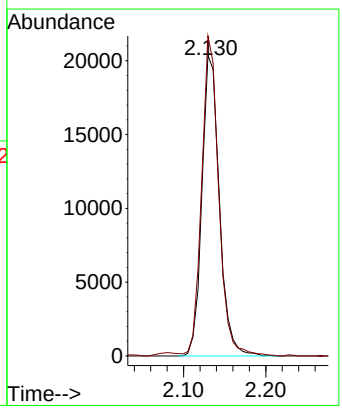
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

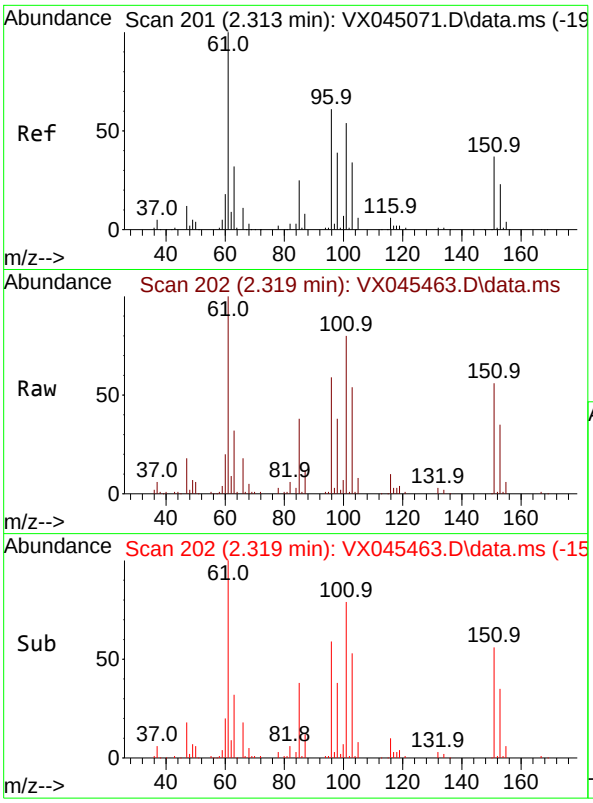


#8
Diethyl Ether
Concen: 46.753 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 74 Resp: 30049

Ion	Ratio	Lower	Upper
74	100		
45	104.1	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.349 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

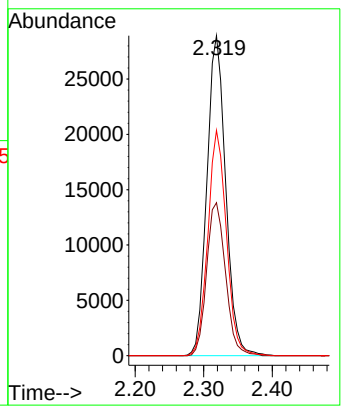
Tgt Ion:101 Resp: 5508

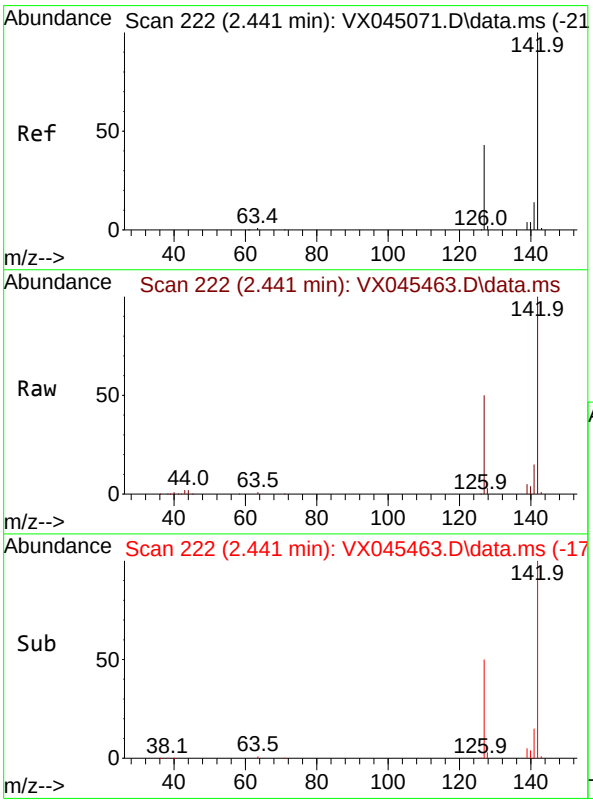
Ion	Ratio	Lower	Upper
101	100		
85	48.1	36.2	54.4
151	69.6	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

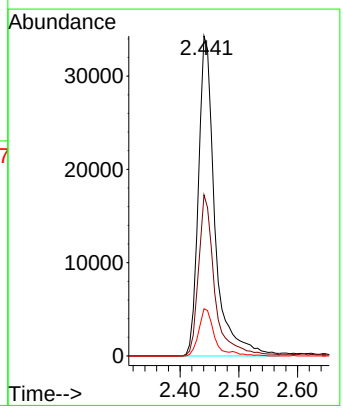


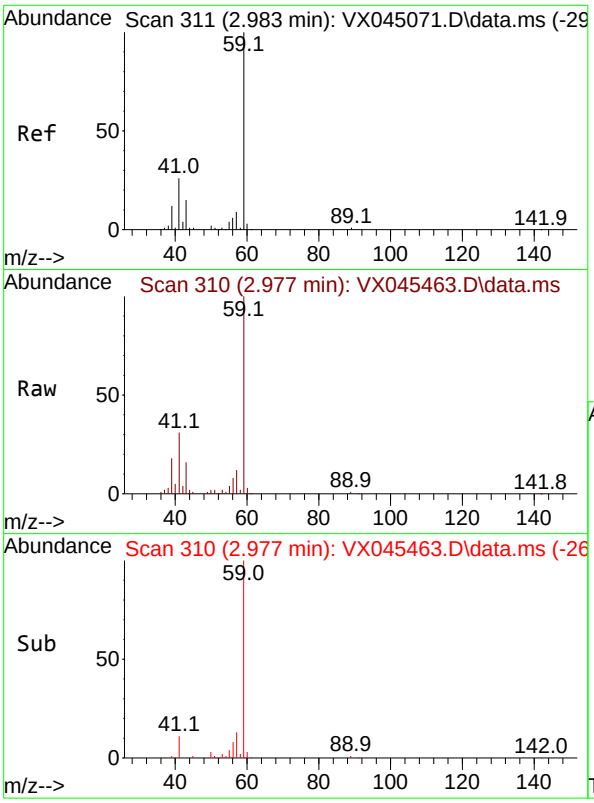


#10
Methyl Iodide
Concen: 56.912 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:142 Resp: 67143

Ion	Ratio	Lower	Upper
142	100		
127	49.5	35.4	53.2
141	14.2	11.6	17.4

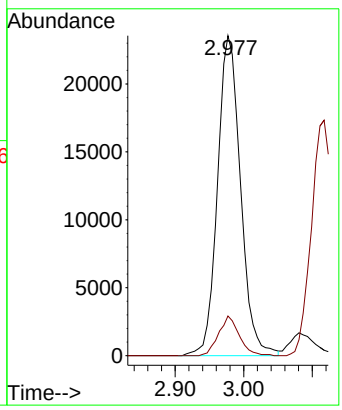




#11
Tert butyl alcohol
Concen: 224.313 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 59 Resp: 5489

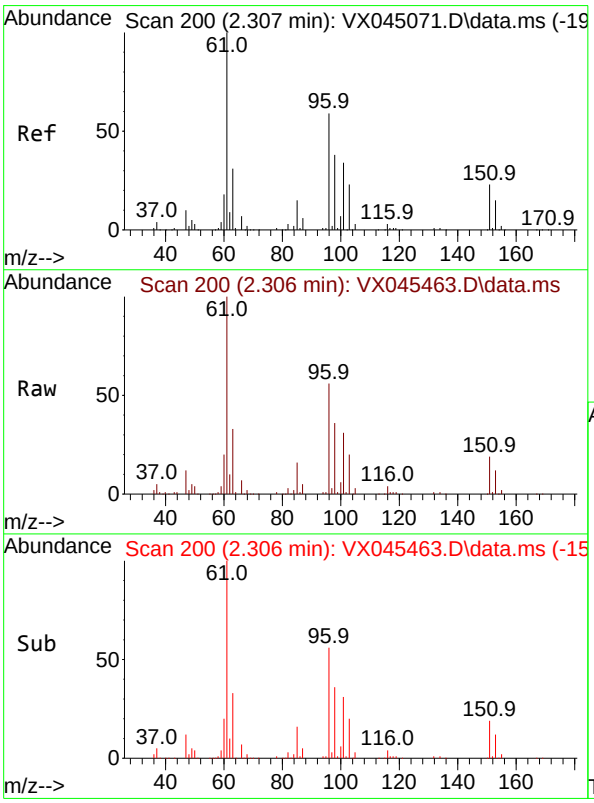
Ion	Ratio	Lower	Upper
59	100		
57	11.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

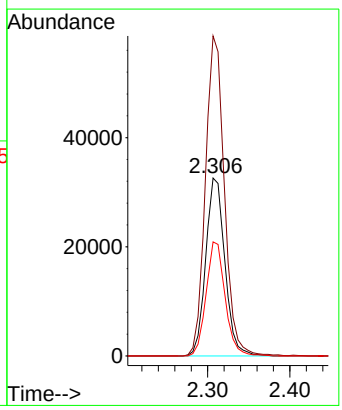
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

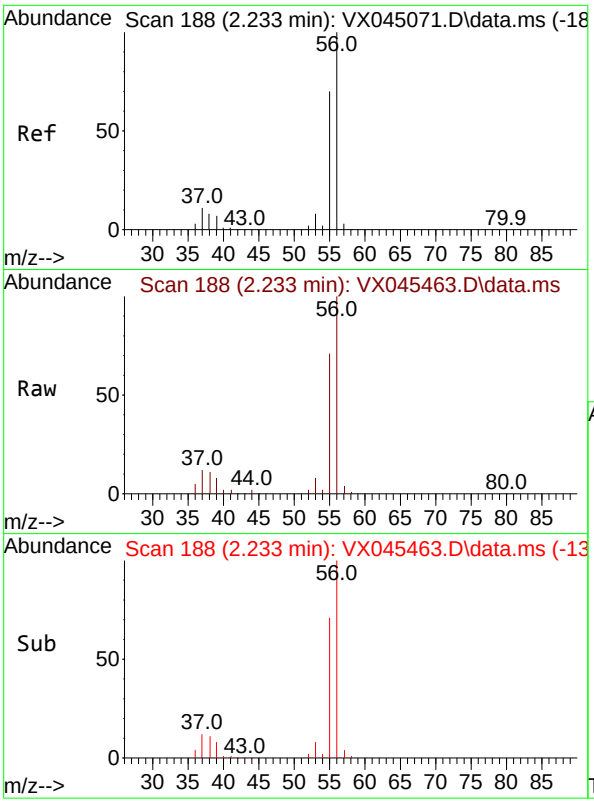


#12
1,1-Dichloroethene
Concen: 52.898 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 96 Resp: 52797

Ion	Ratio	Lower	Upper
96	100		
61	179.8	134.6	202.0
98	64.1	51.0	76.6

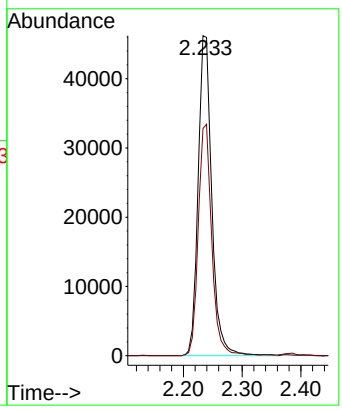




#13
Acrolein
Concen: 262.676 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 56 Resp: 7431

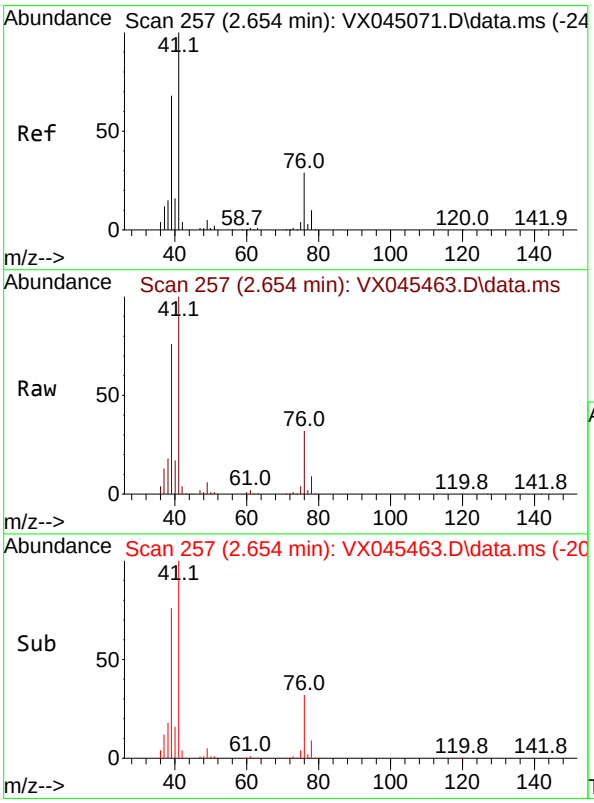
Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

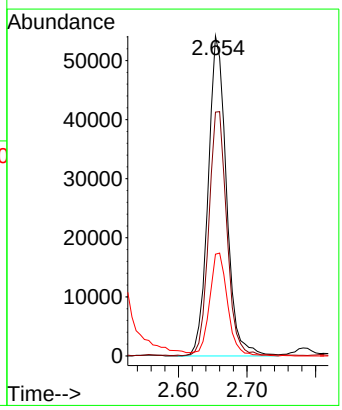
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

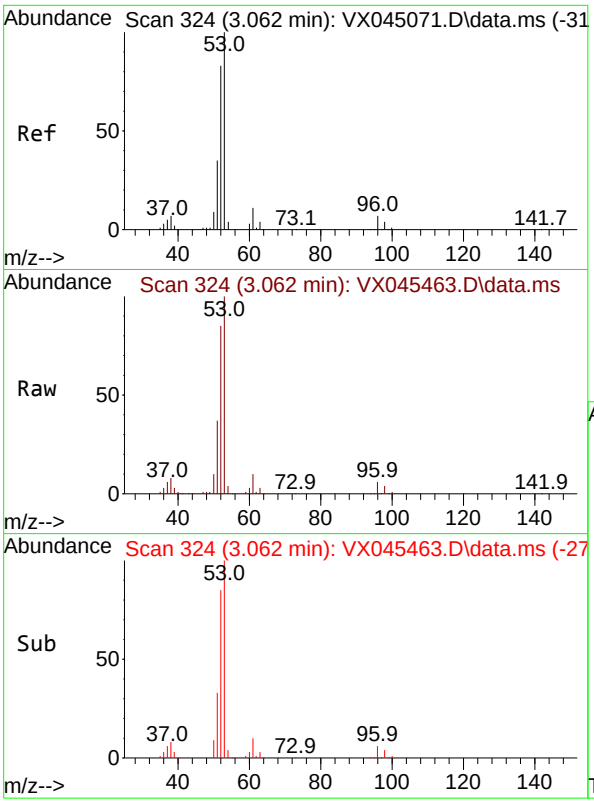


#14
Allyl chloride
Concen: 56.762 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 41 Resp: 100846

Ion	Ratio	Lower	Upper
41	100		
39	74.7	53.8	80.8
76	31.7	25.2	37.8





#15
Acrylonitrile
Concen: 260.418 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

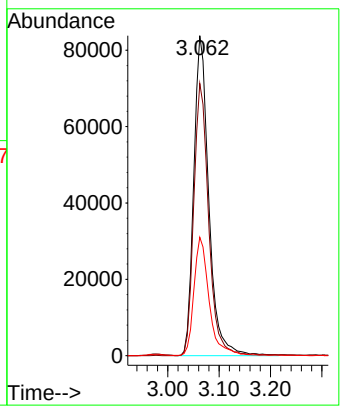
Tgt Ion: 53 Resp: 17080

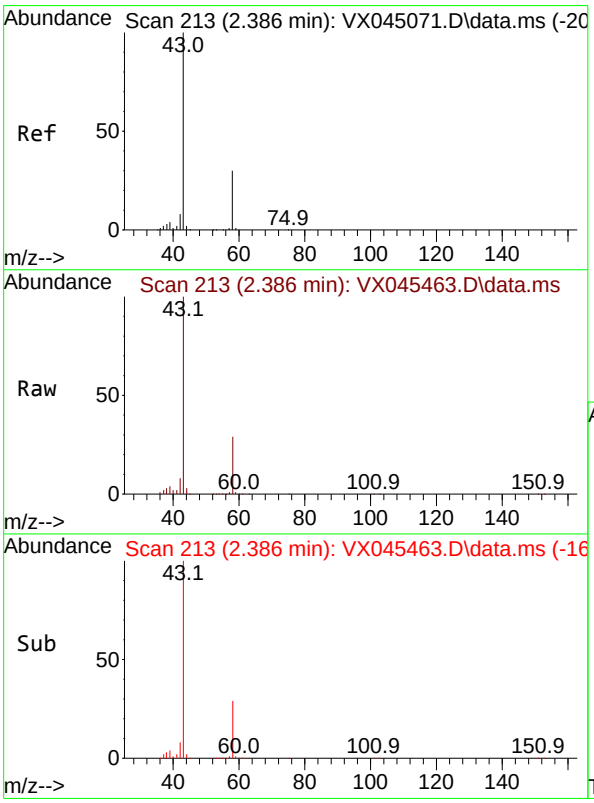
Ion	Ratio	Lower	Upper
53	100		
52	84.2	66.2	99.2
51	37.1	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

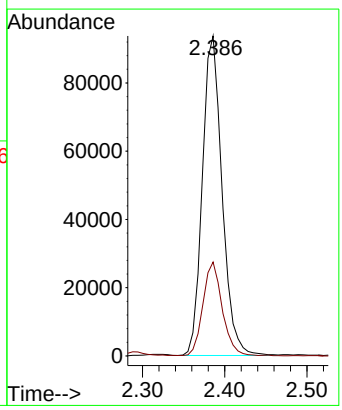


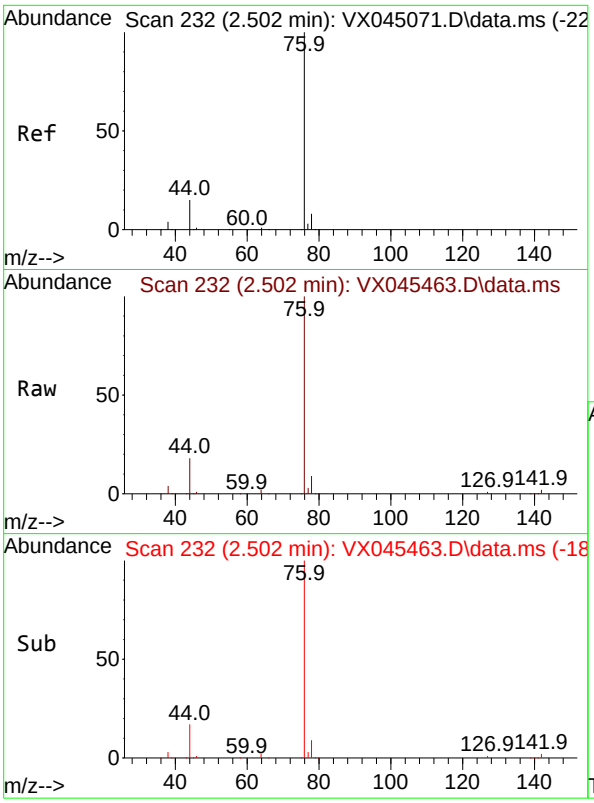


#16
Acetone
Concen: 260.529 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 156176

Ion	Ratio	Lower	Upper
43	100		
58	29.3	24.2	36.4

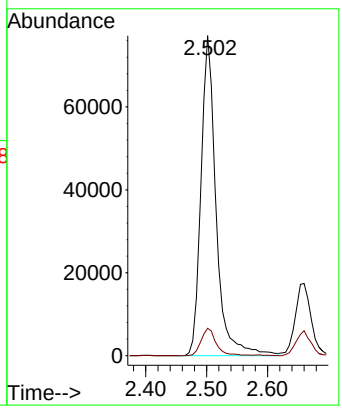




#17
Carbon Disulfide
Concen: 50.007 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 76 Resp: 13293

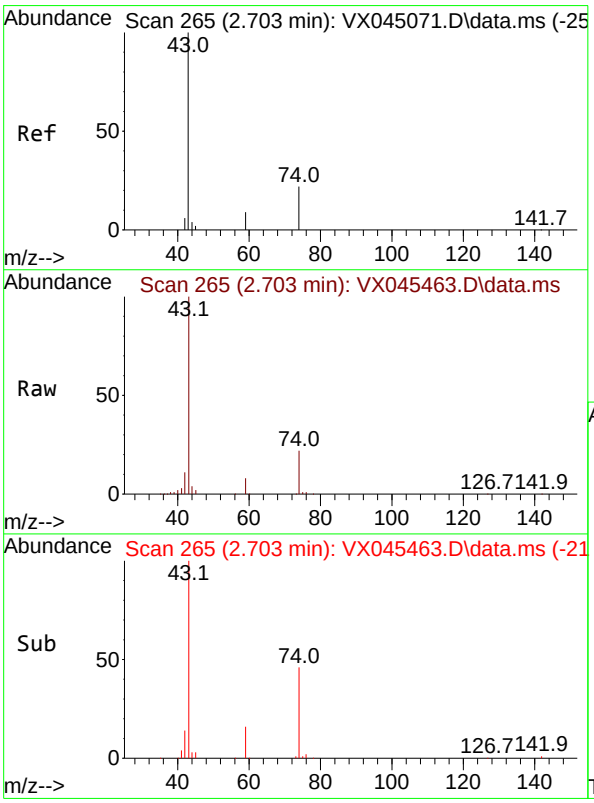
Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.6	9.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

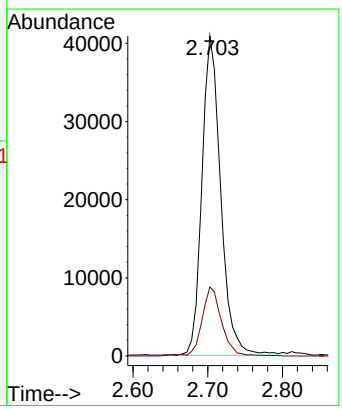
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

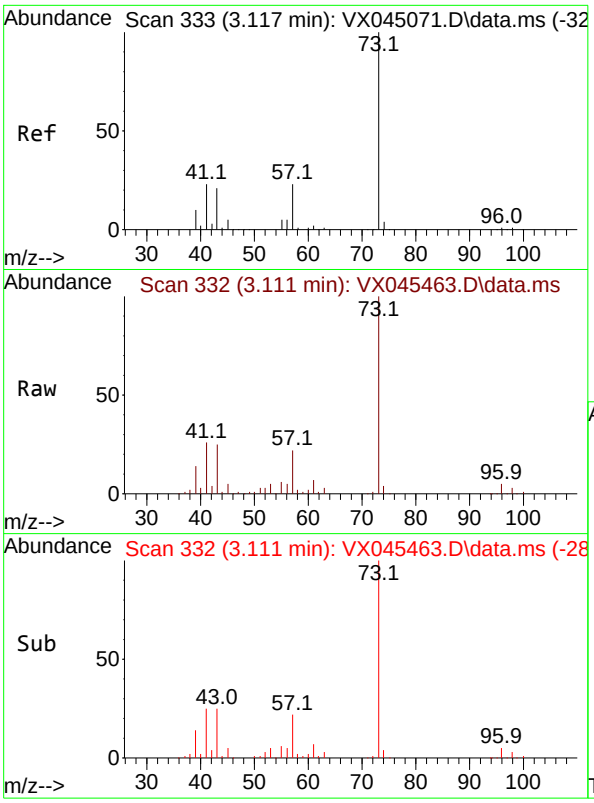


#18
Methyl Acetate
Concen: 49.493 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 71374

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2

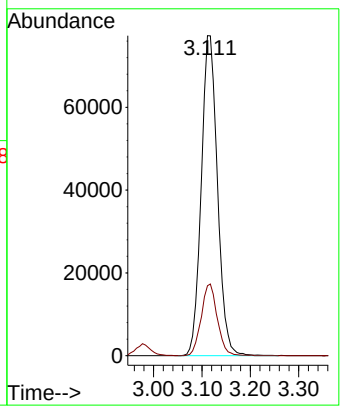




#19
Methyl tert-butyl Ether
Concen: 53.696 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 73 Resp: 17980

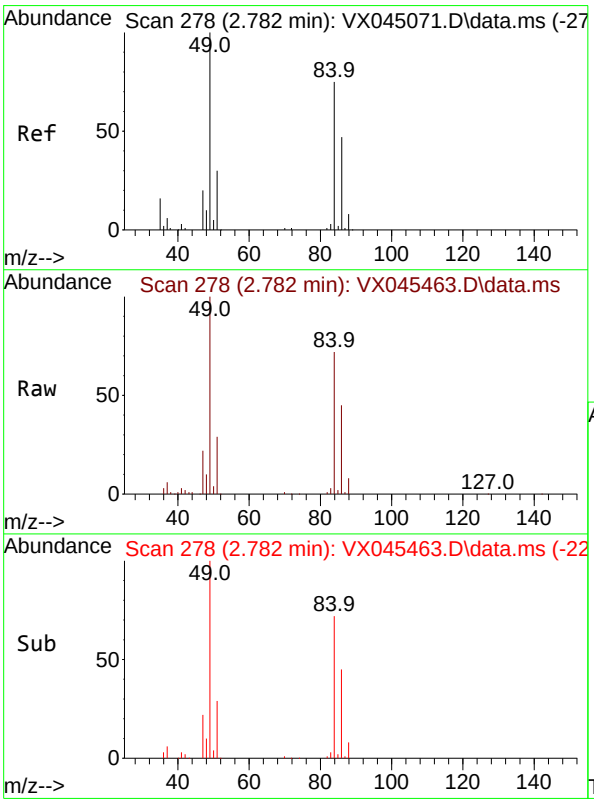
Ion	Ratio	Lower	Upper
73	100		
57	21.9	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

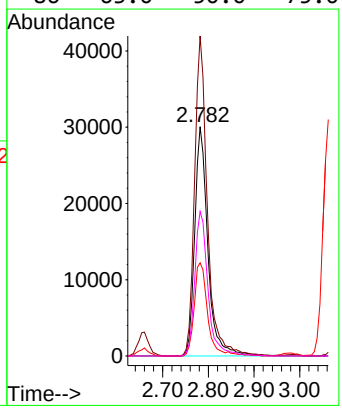
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

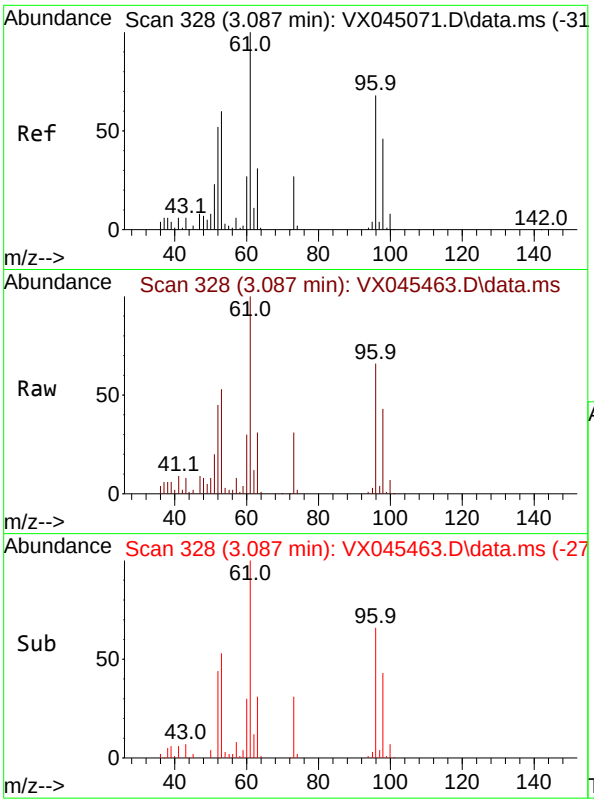


#20
Methylene Chloride
Concen: 50.570 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 84 Resp: 60050

Ion	Ratio	Lower	Upper
84	100		
49	139.5	106.5	159.7
51	40.6	32.1	48.1
86	63.0	50.0	75.0

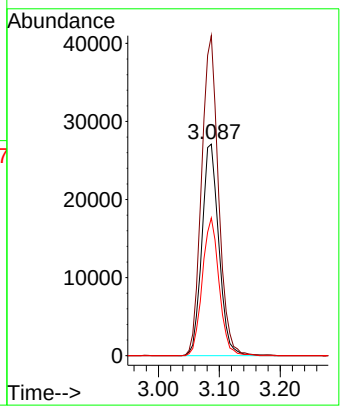




#21
trans-1,2-Dichloroethene
Concen: 53.118 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 96 Resp: 5237

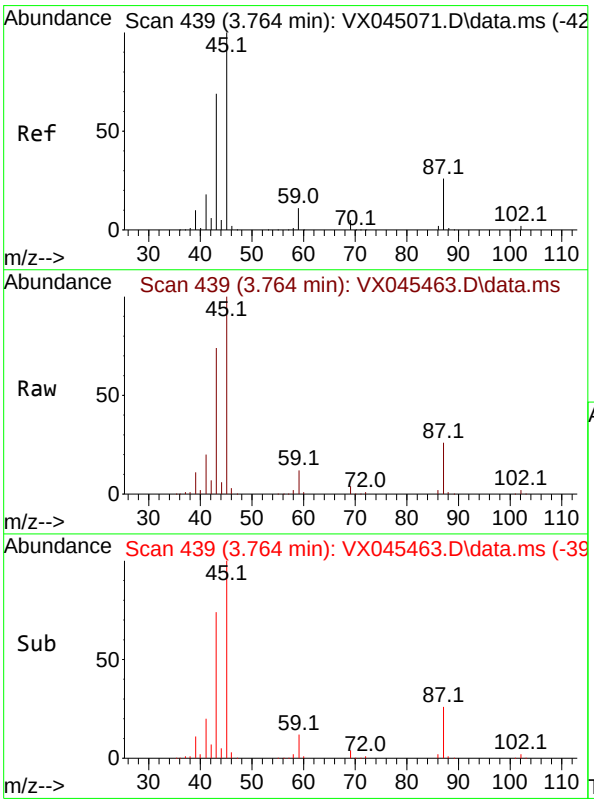
Ion	Ratio	Lower	Upper
96	100		
61	151.2	117.0	175.4
98	65.1	53.4	80.2



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

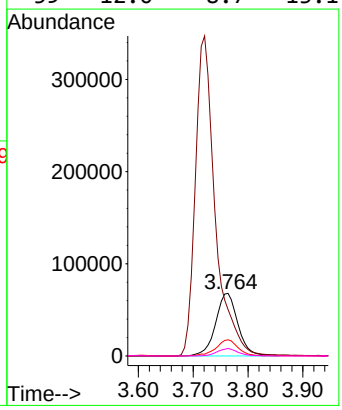
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

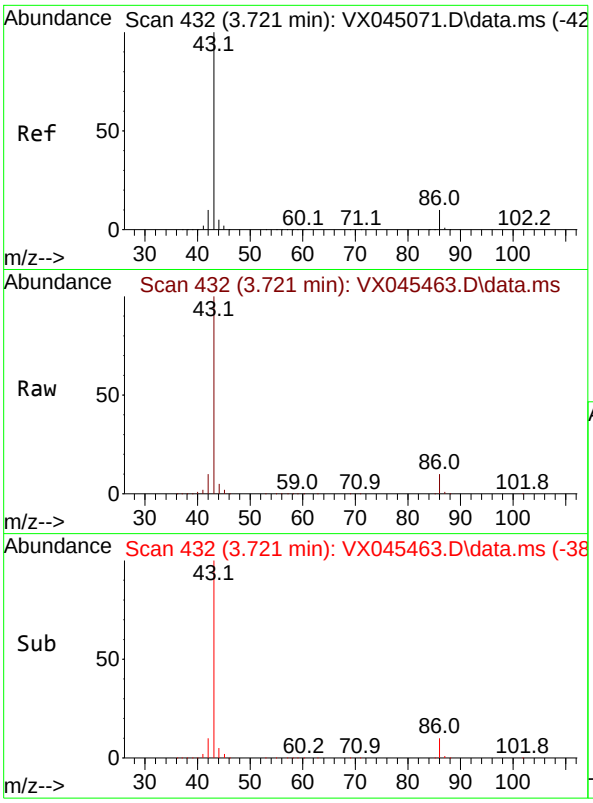


#22
Diisopropyl ether
Concen: 53.100 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 45 Resp: 191865

Ion	Ratio	Lower	Upper
45	100		
43	73.8	54.9	82.3
87	25.7	21.0	31.4
59	12.0	8.7	13.1

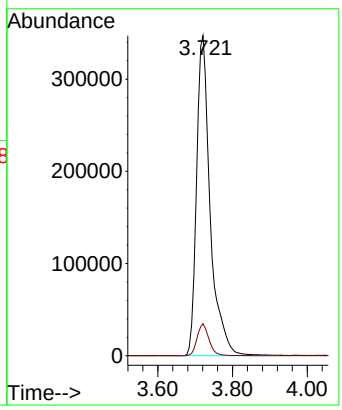




#23
Vinyl Acetate
Concen: 291.184 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 87801

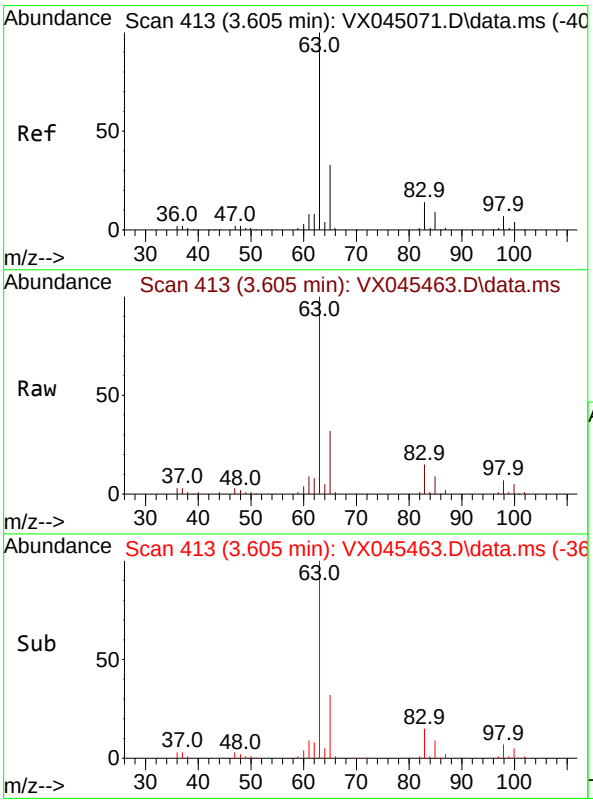
Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

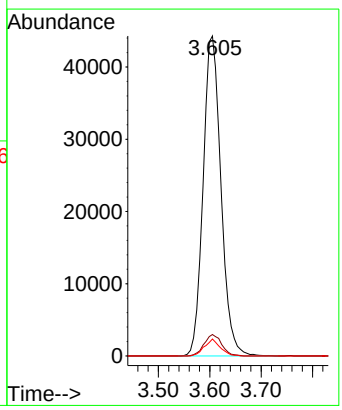
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

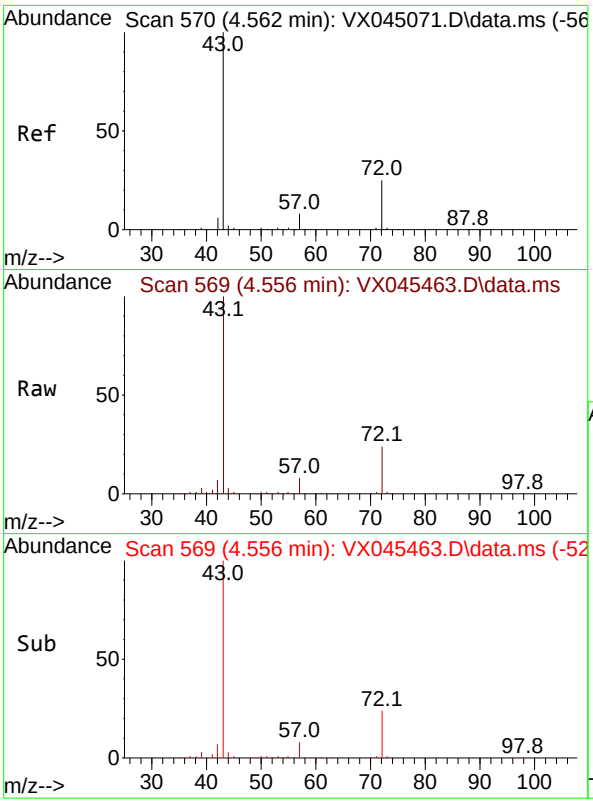


#24
1,1-Dichloroethane
Concen: 52.729 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 63 Resp: 106777

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.4	10.2
100	5.3	2.1	6.5





#25
2-Butanone
Concen: 274.214 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

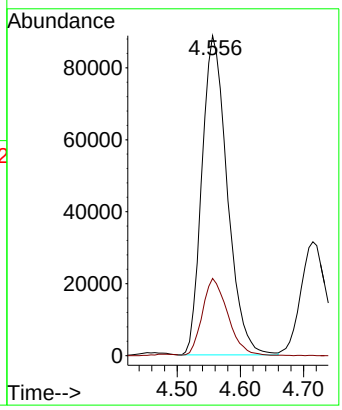
Tgt Ion: 43 Resp: 24743

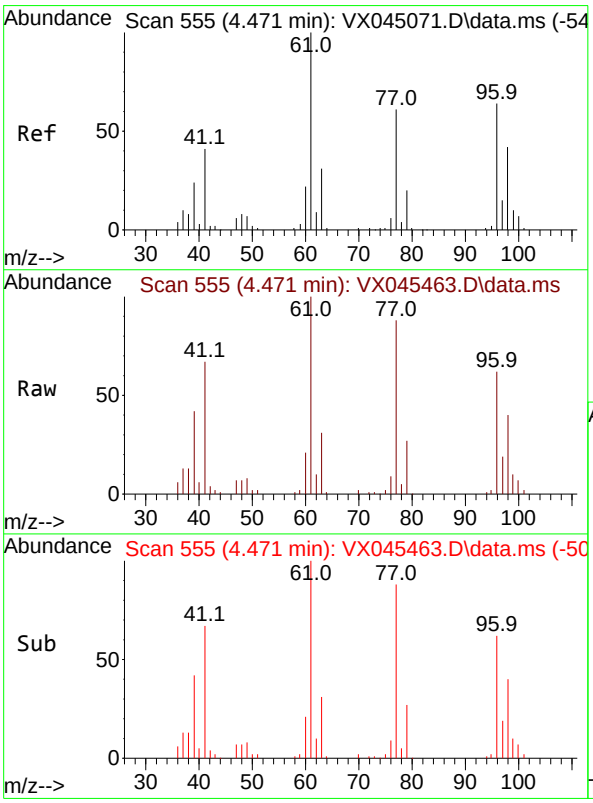
Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

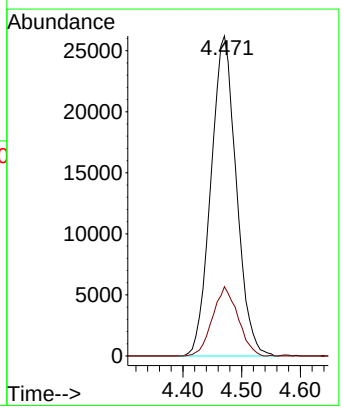


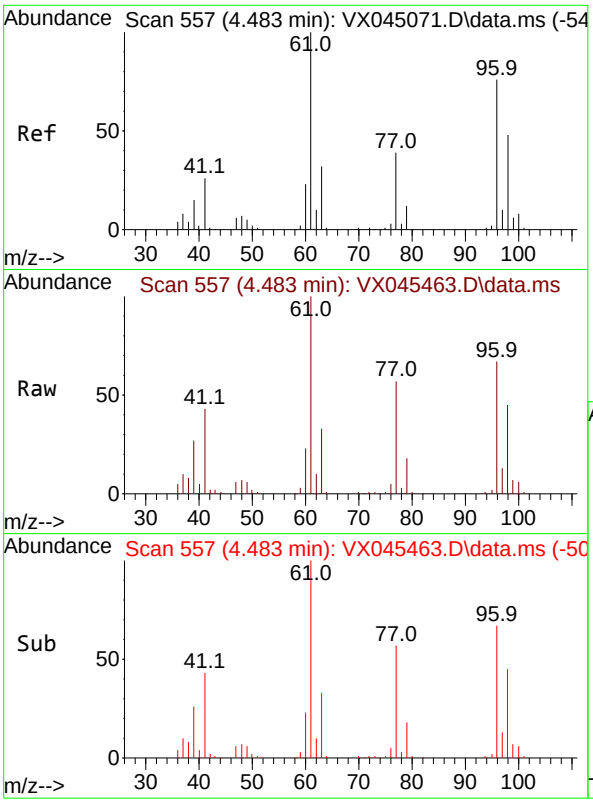


#26
2,2-Dichloropropane
Concen: 82.944 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 77 Resp: 78783

Ion	Ratio	Lower	Upper
77	100		
97	21.6	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 52.894 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

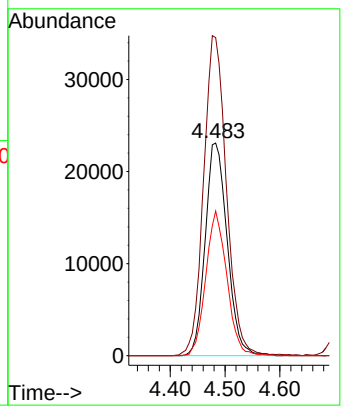
Tgt Ion: 96 Resp: 6438

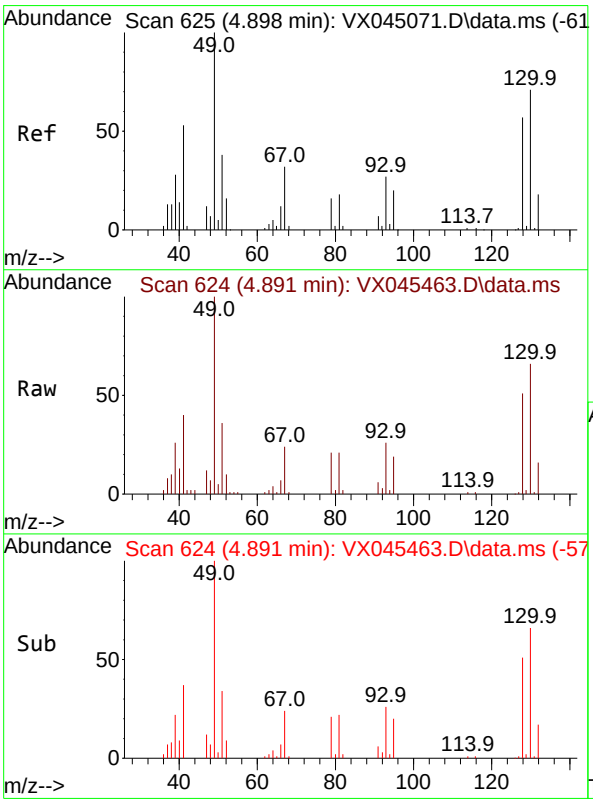
Ion	Ratio	Lower	Upper
96	100		
61	155.9	0.0	283.2
98	65.1	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

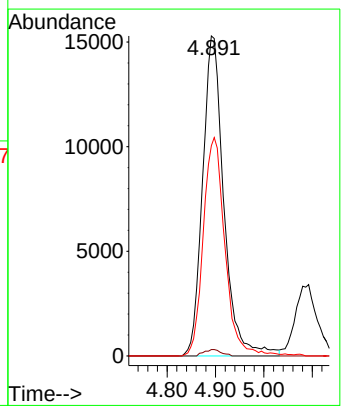


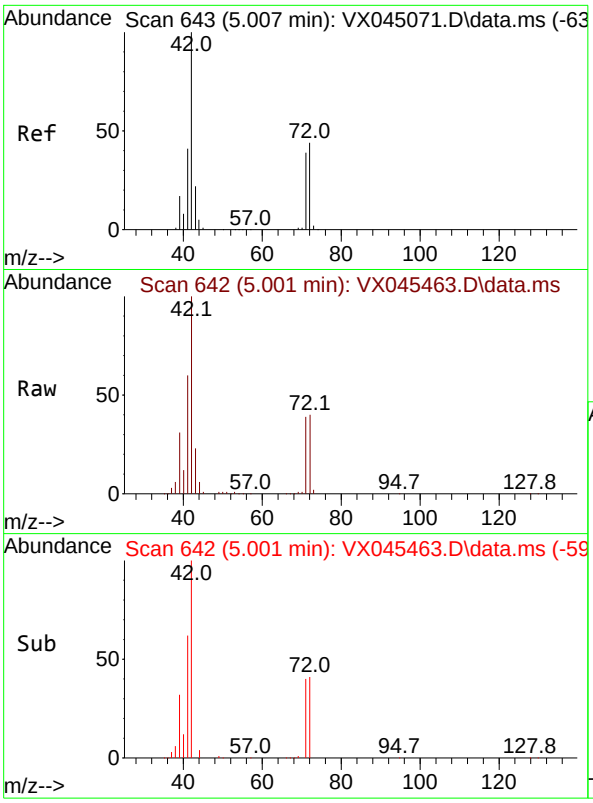


#28
Bromochloromethane
Concen: 48.439 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 49 Resp: 46754

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.4
130	69.5	56.1	84.1

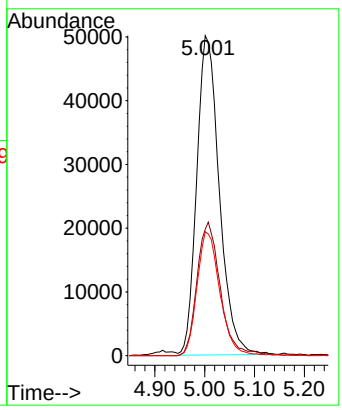




#29
Tetrahydrofuran
Concen: 259.959 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 42 Resp: 15752

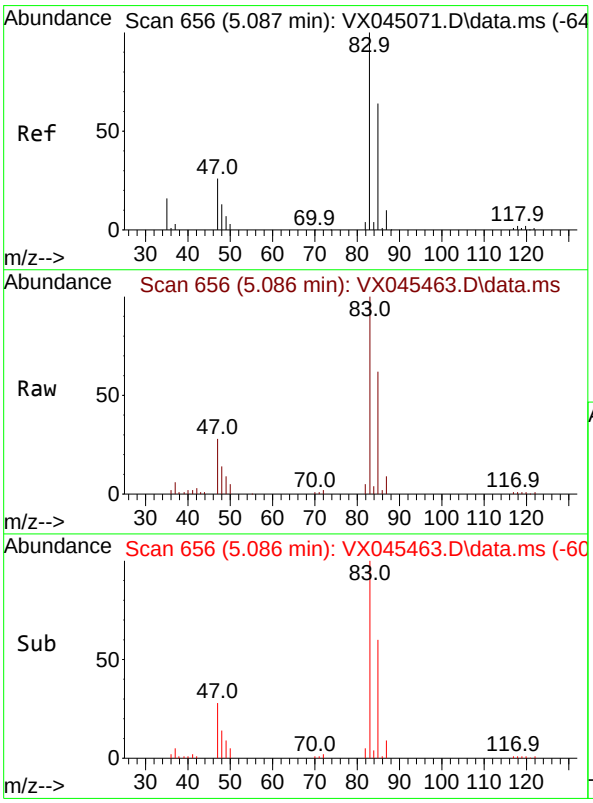
Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.1	51.1
71	39.4	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations APPROVED

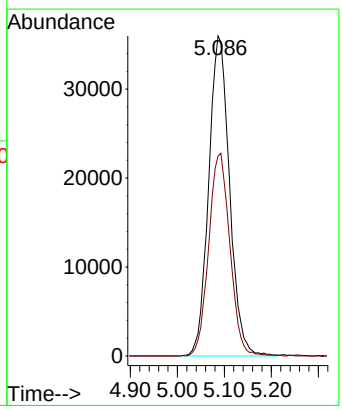
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

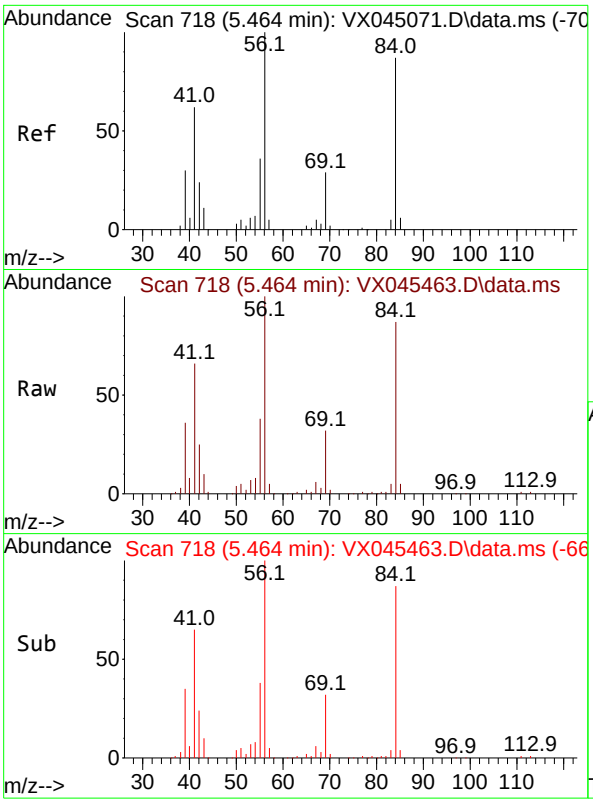


#30
Chloroform
Concen: 55.106 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 83 Resp: 110878

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.4	77.2





#31
Cyclohexane
Concen: 54.865 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

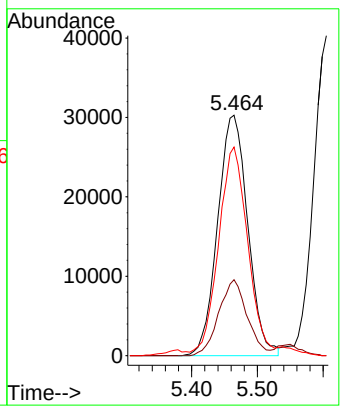
Tgt Ion: 56 Resp: 9644

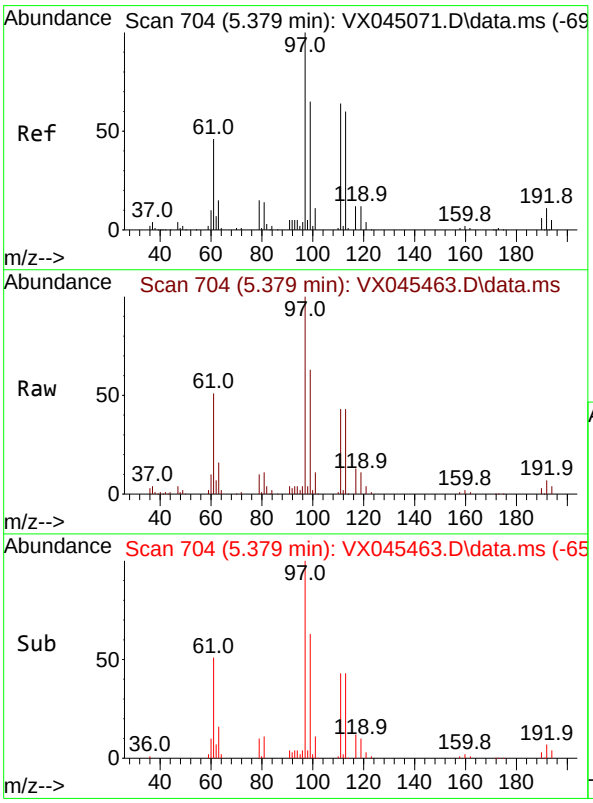
Ion	Ratio	Lower	Upper
56	100		
69	31.6	23.4	35.2
84	84.3	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

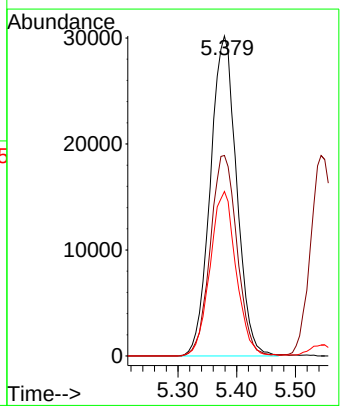


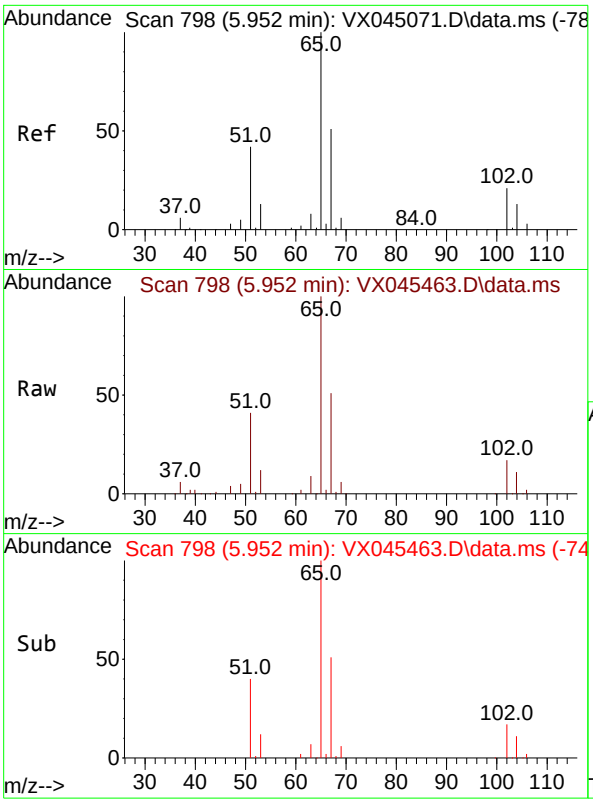


#32
1,1,1-Trichloroethane
Concen: 57.604 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 97 Resp: 93611

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	51.2	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 41.896 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

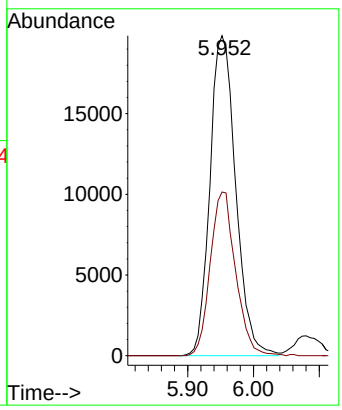
Tgt Ion: 65 Resp: 5413

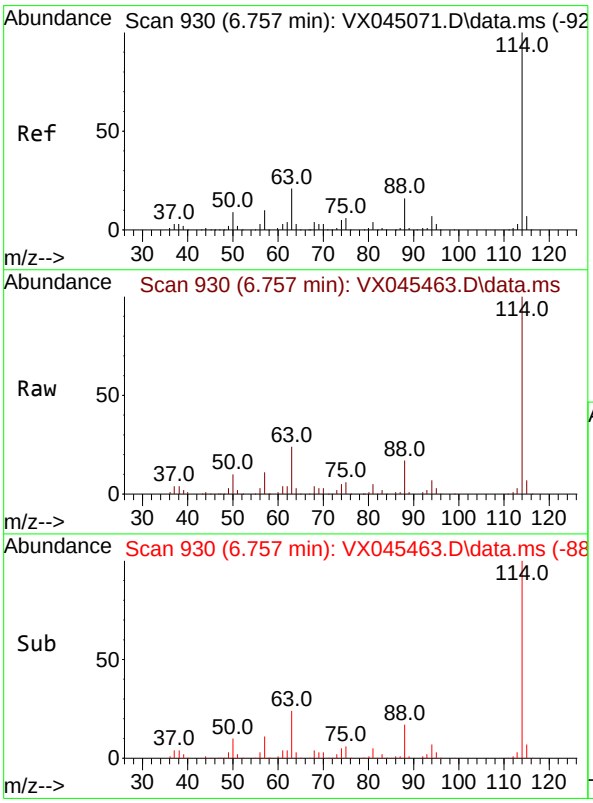
Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

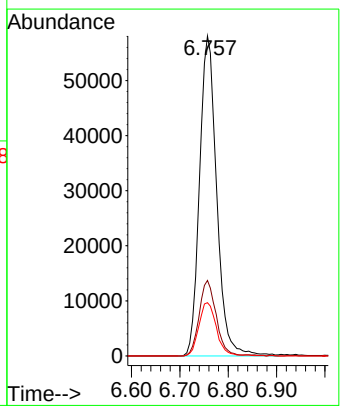


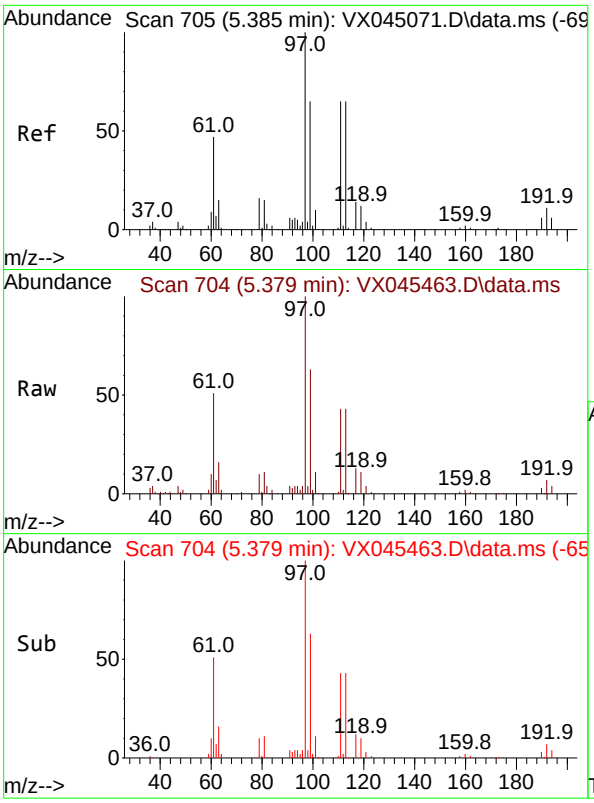


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:114 Resp: 143287

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	41.8
88	16.6	0.0	32.8

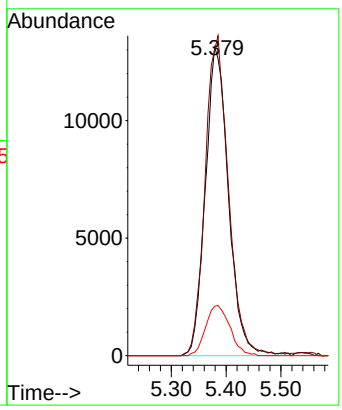




#35
Dibromofluoromethane
Concen: 40.071 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:113 Resp: 3839

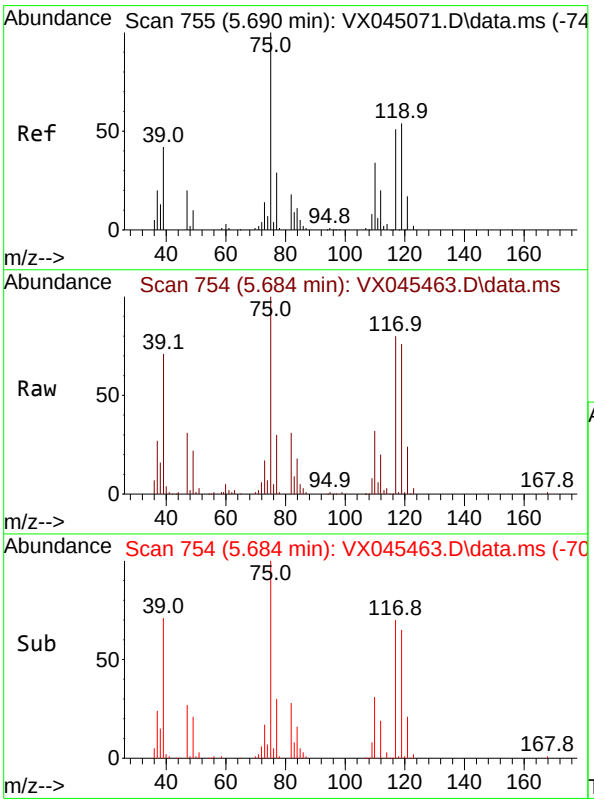
Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.8	122.6
192	17.1	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

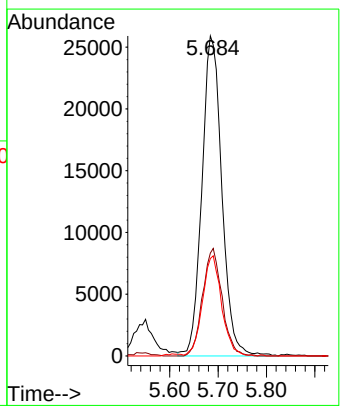
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

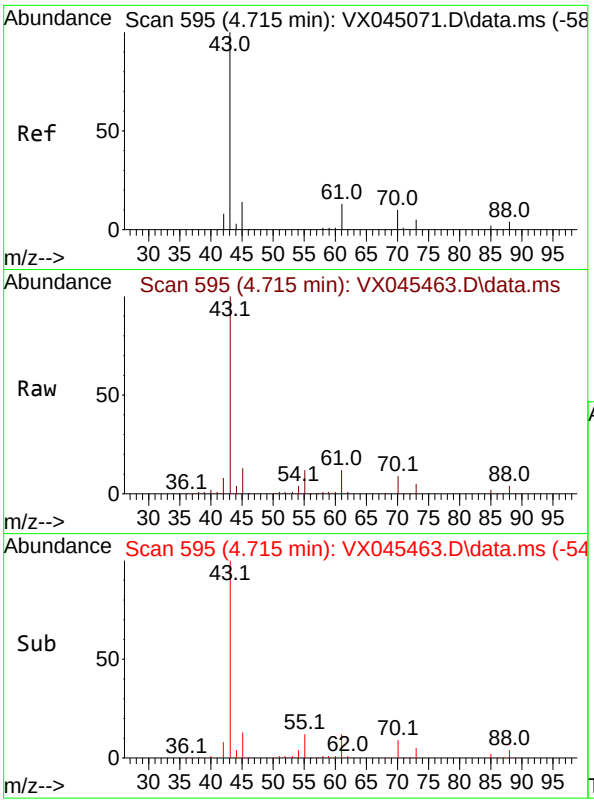


#36
1,1-Dichloropropene
Concen: 56.492 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 74229

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.9	50.6
77	30.1	24.5	36.7

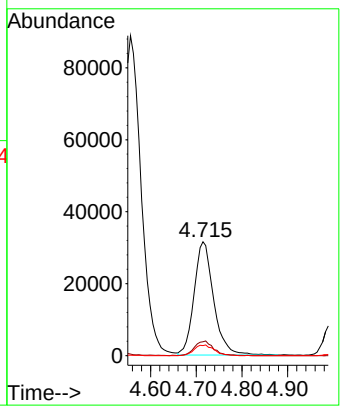




#37
Ethyl Acetate
Concen: 55.110 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 9330

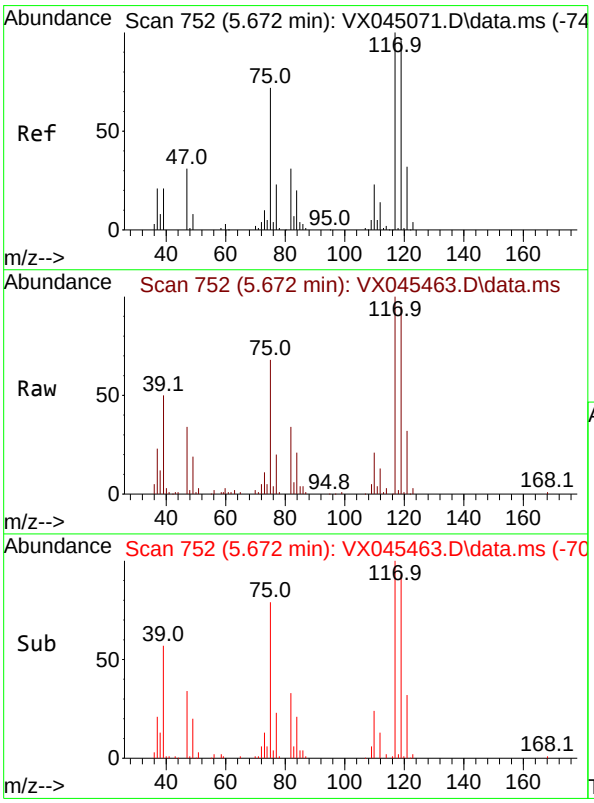
Ion	Ratio	Lower	Upper
43	100		
61	12.8	10.8	16.2
70	9.7	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

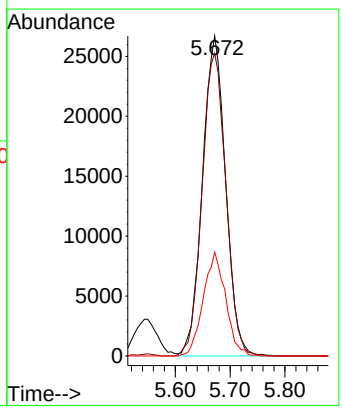
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

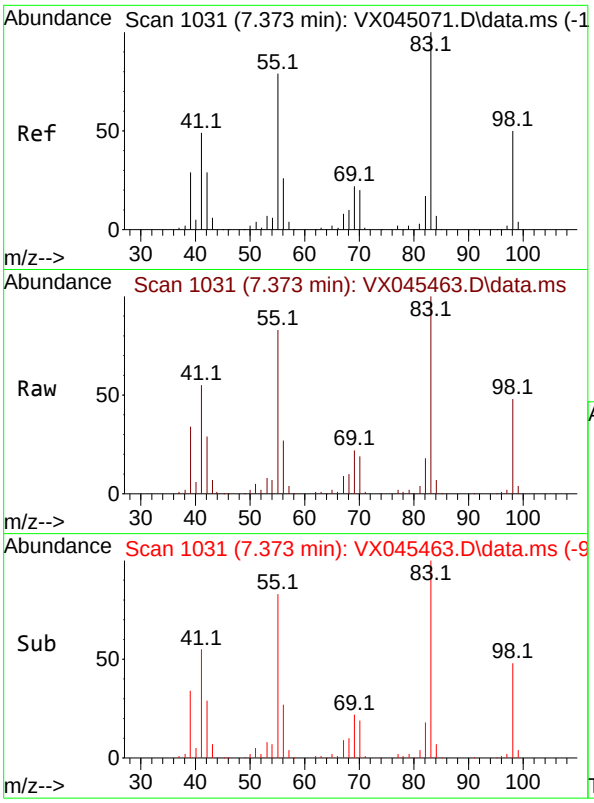


#38
Carbon Tetrachloride
Concen: 58.681 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:117 Resp: 78280

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.7	115.1
121	32.4	25.5	38.3

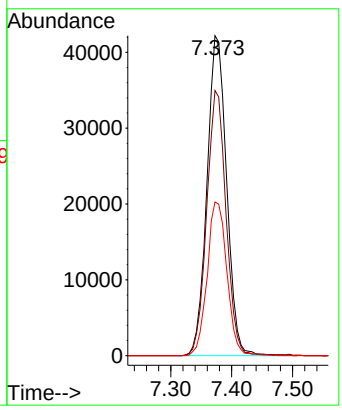




#39
Methylcyclohexane
Concen: 59.974 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 83 Resp: 9442

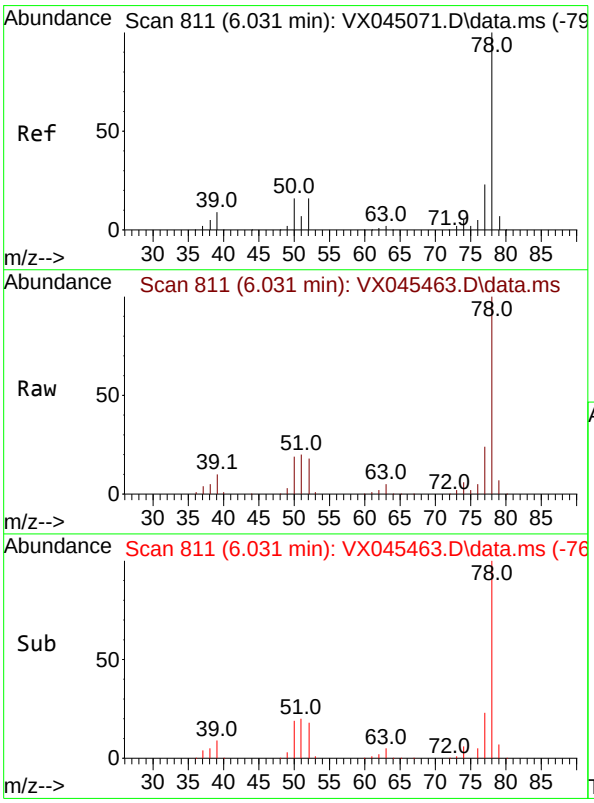
Ion	Ratio	Lower	Upper
83	100		
55	82.8	63.0	94.4
98	48.1	39.7	59.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

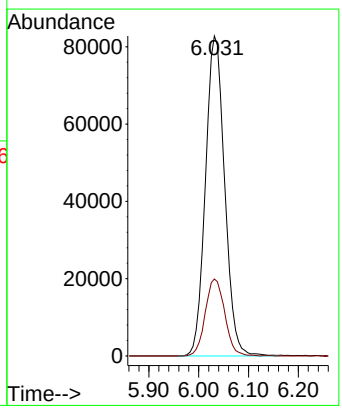
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

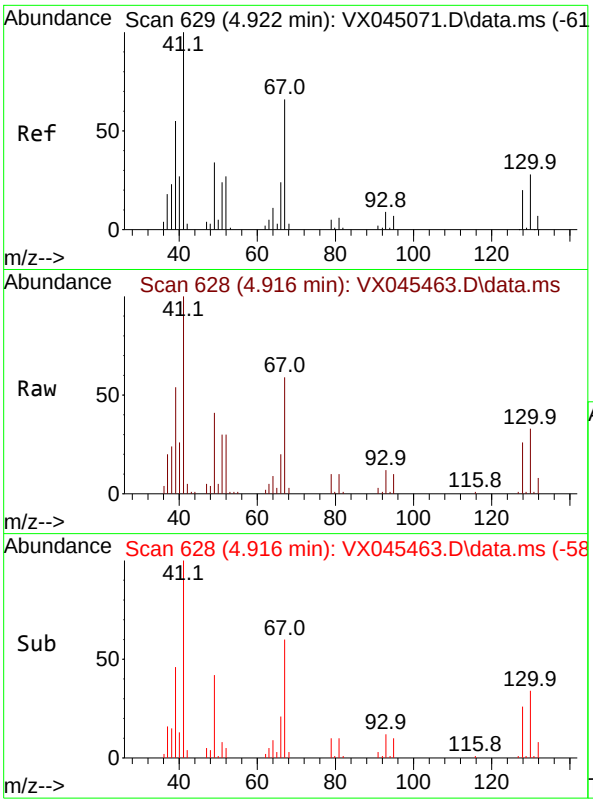


#40
Benzene
Concen: 53.392 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 78 Resp: 221537

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2

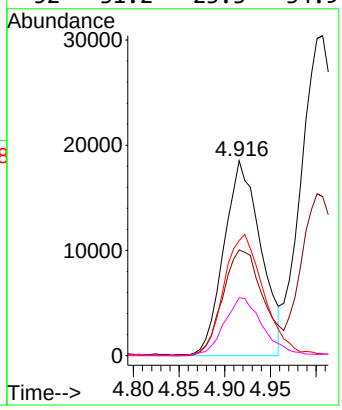




#41
Methacrylonitrile
Concen: 56.964 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 41 Resp: 5215

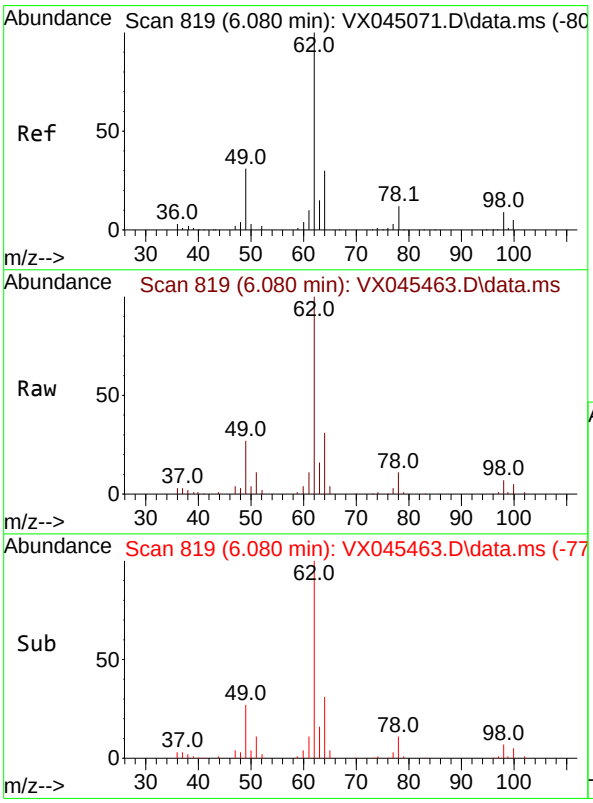
Ion	Ratio	Lower	Upper
41	100		
39	59.2	44.6	67.0
67	67.7	53.9	80.9
52	31.2	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

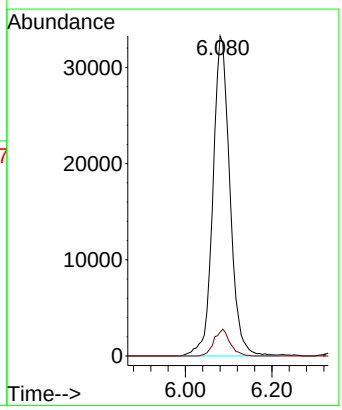
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

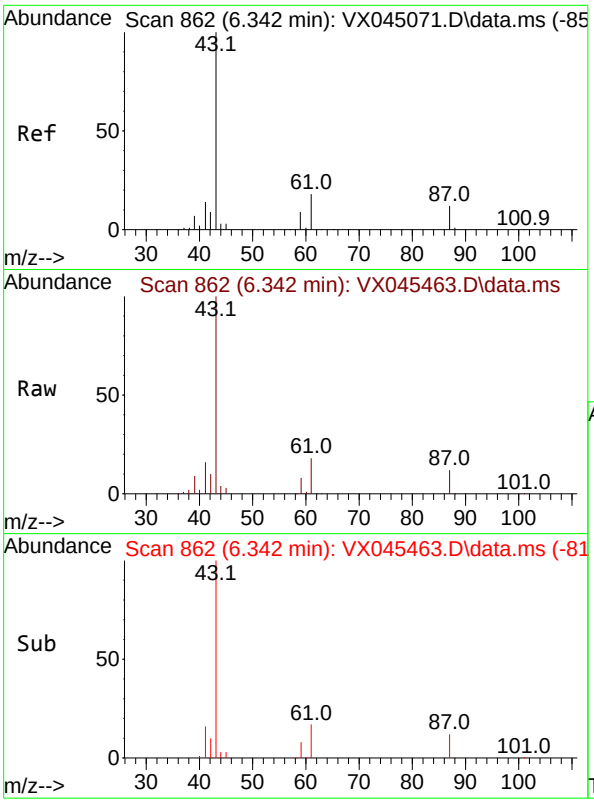


#42
1,2-Dichloroethane
Concen: 60.723 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 62 Resp: 90728

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2

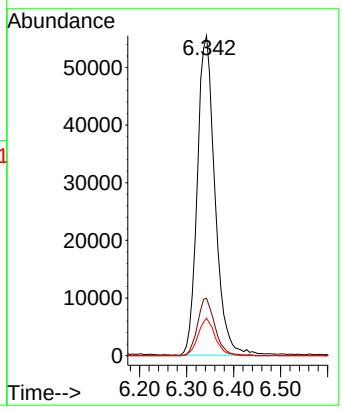




#43
Isopropyl Acetate
Concen: 58.007 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 14523

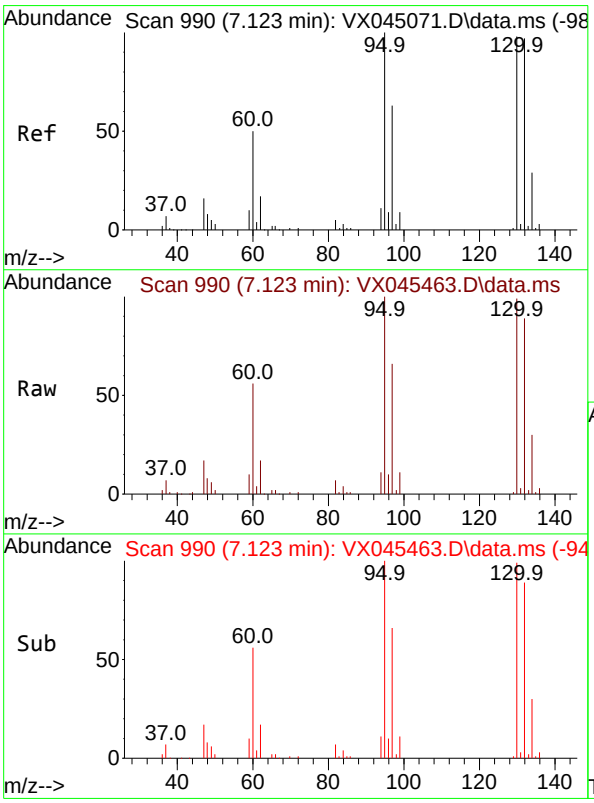
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.9	22.3
87	11.2	9.4	14.2



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

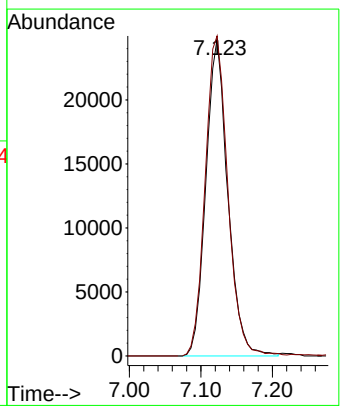
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

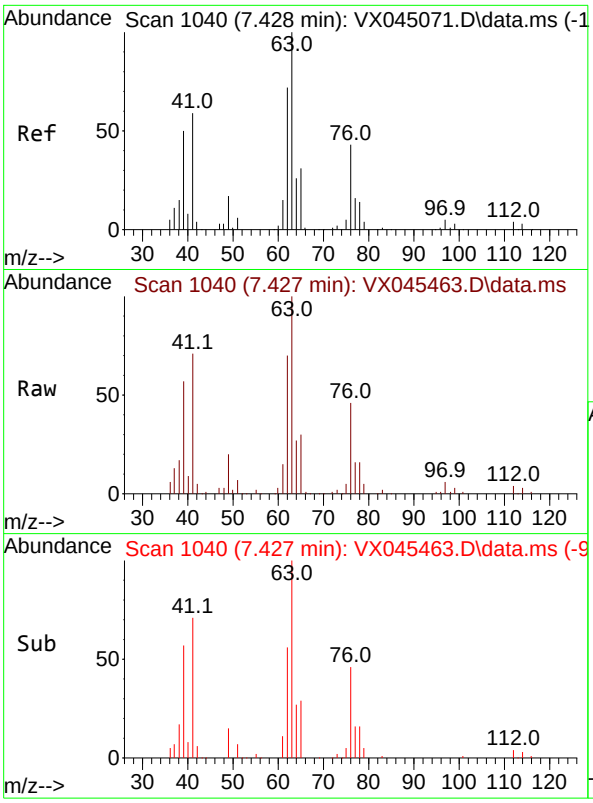


#44
Trichloroethene
Concen: 53.991 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:130 Resp: 52602

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	205.0

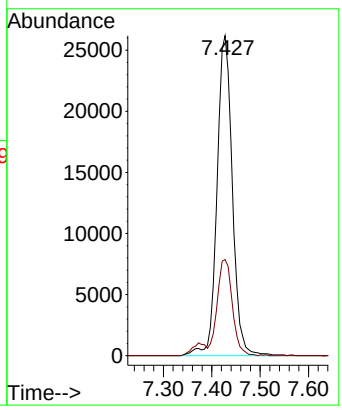




#45
1,2-Dichloropropane
Concen: 54.102 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 63 Resp: 5771

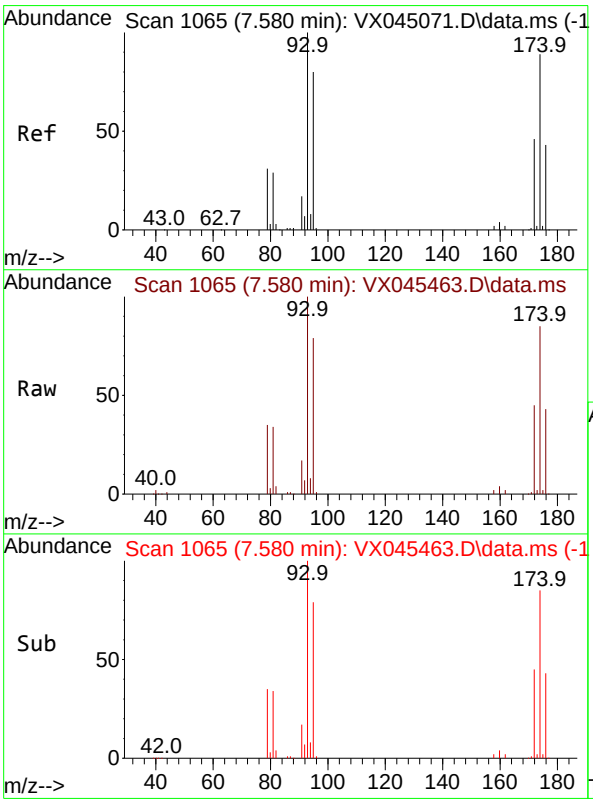
Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

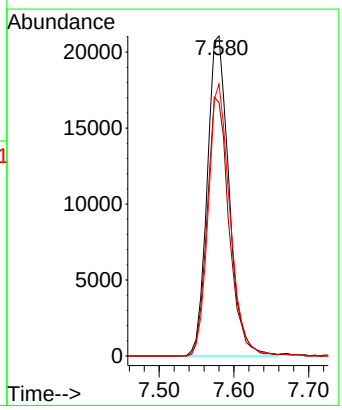
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

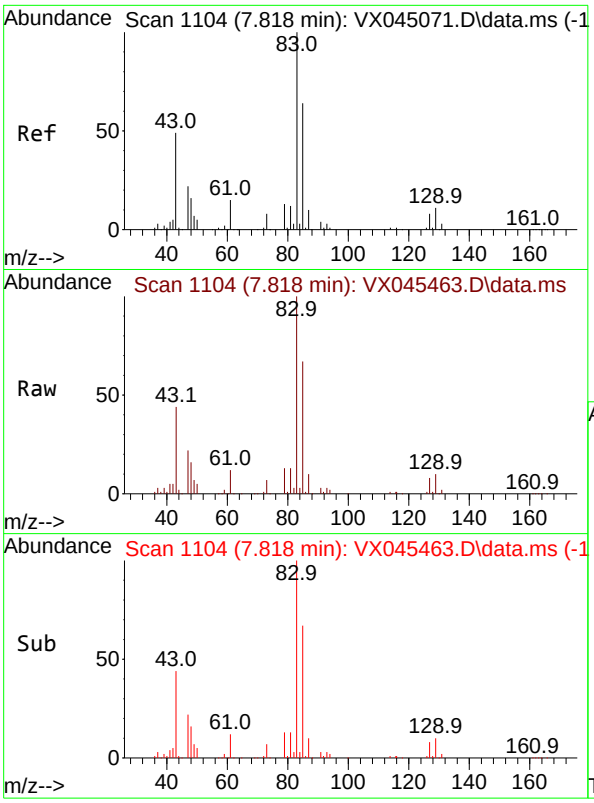


#46
Dibromomethane
Concen: 56.564 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 93 Resp: 42651

Ion	Ratio	Lower	Upper
93	100		
95	81.6	65.8	98.8
174	84.7	72.2	108.2

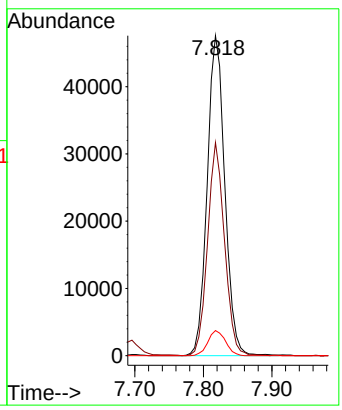




#47
Bromodichloromethane
Concen: 57.553 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 83 Resp: 8512

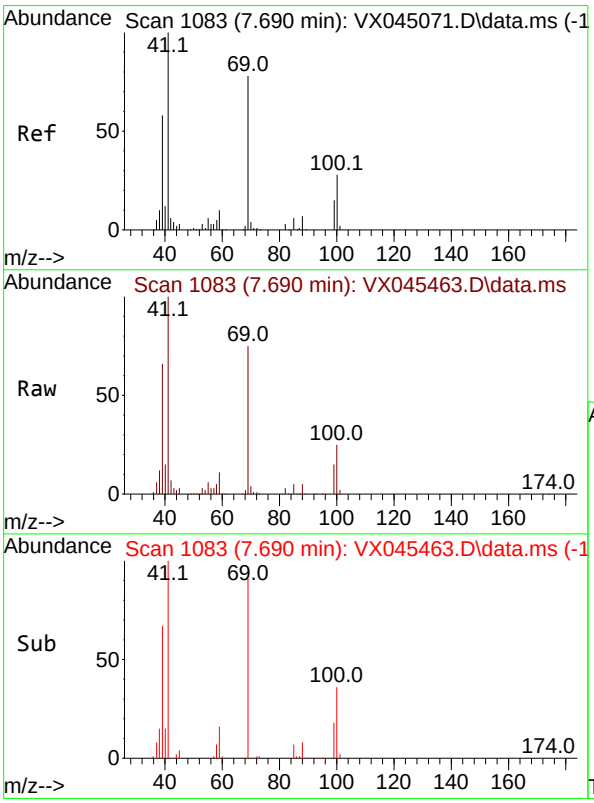
Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7
127	7.9	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

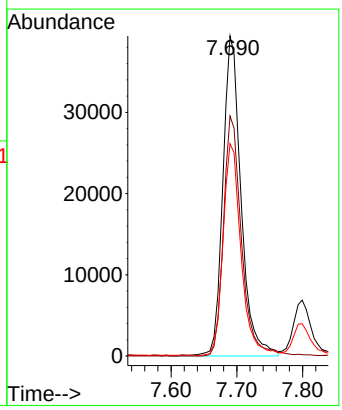
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

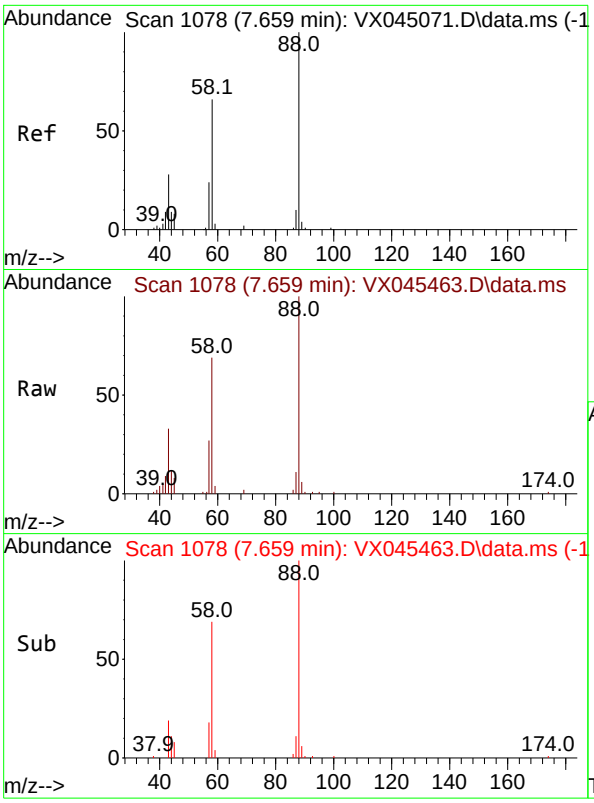


#48
Methyl methacrylate
Concen: 60.425 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 41 Resp: 75898

Ion	Ratio	Lower	Upper
41	100		
69	74.4	63.0	94.6
39	65.9	47.5	71.3





#49
1,4-Dioxane
Concen: 994.704 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

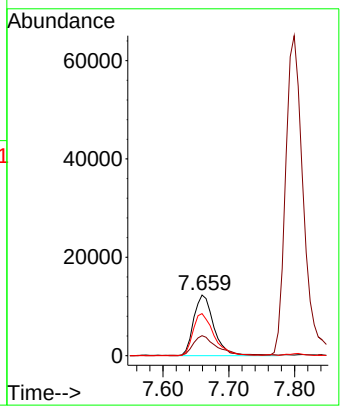
Tgt Ion: 88 Resp: 2635

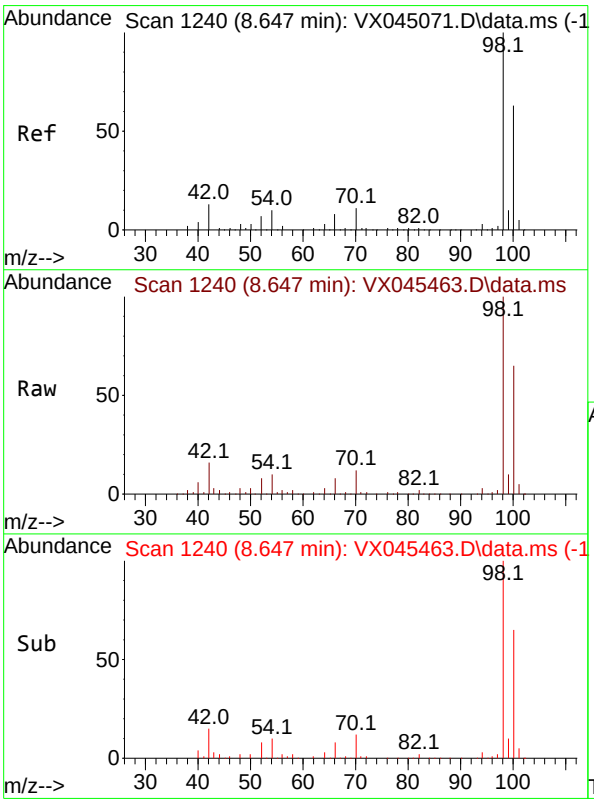
Ion	Ratio	Lower	Upper
88	100		
43	39.7	28.7	43.1
58	71.6	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

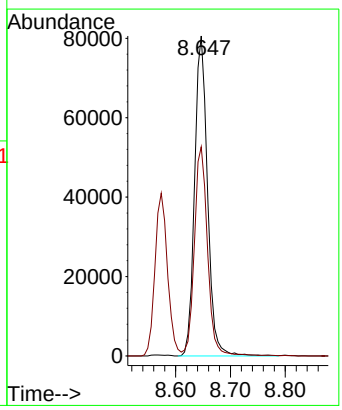


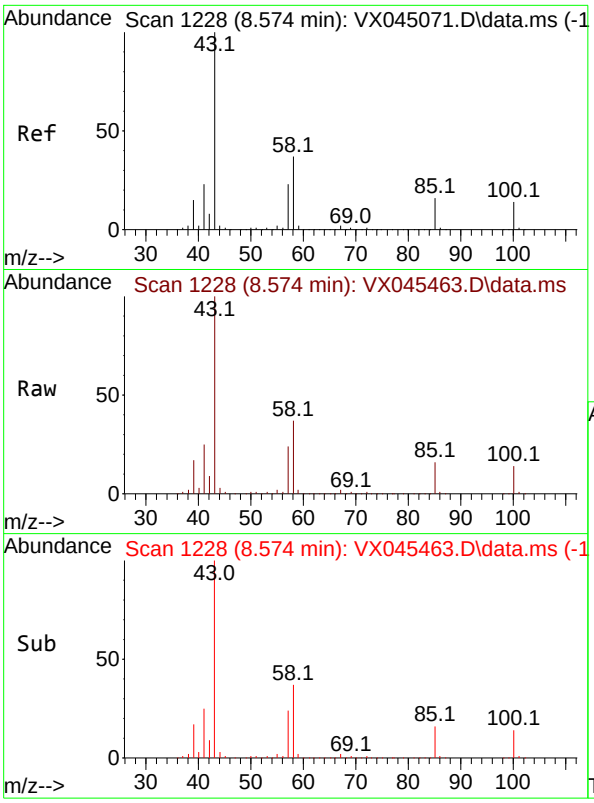


#50
Toluene-d8
Concen: 38.137 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 98 Resp: 132471

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.0	78.0

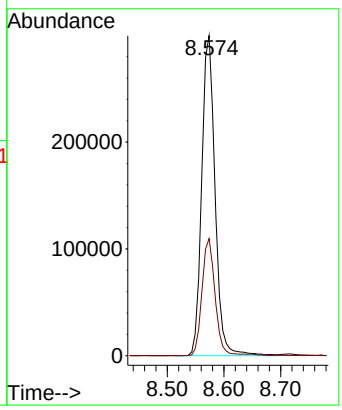




#51
4-Methyl-2-Pentanone
Concen: 291.351 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 48978

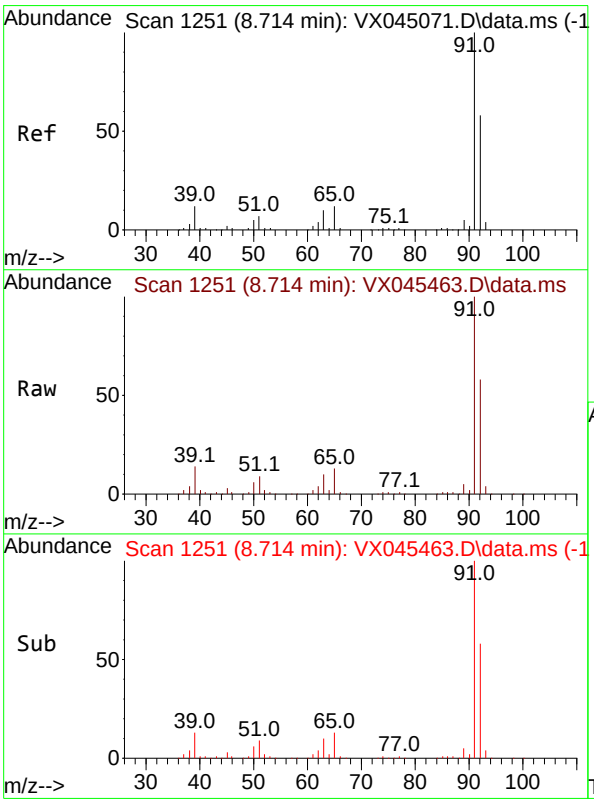
Ion	Ratio	Lower	Upper
43	100		
58	35.6	29.2	43.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations APPROVED

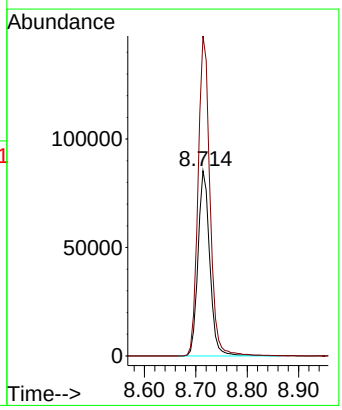
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

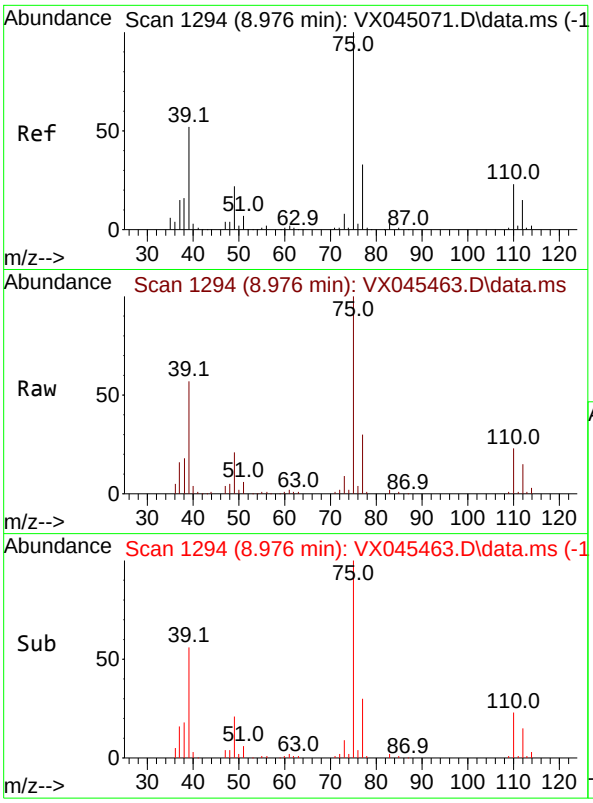


#52
Toluene
Concen: 55.663 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 92 Resp: 135507

Ion	Ratio	Lower	Upper
92	100		
91	174.4	138.9	208.3

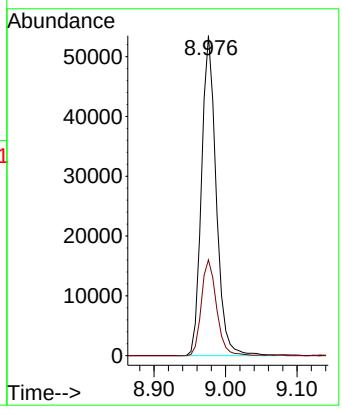




#53
t-1,3-Dichloropropene
Concen: 61.892 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 7652

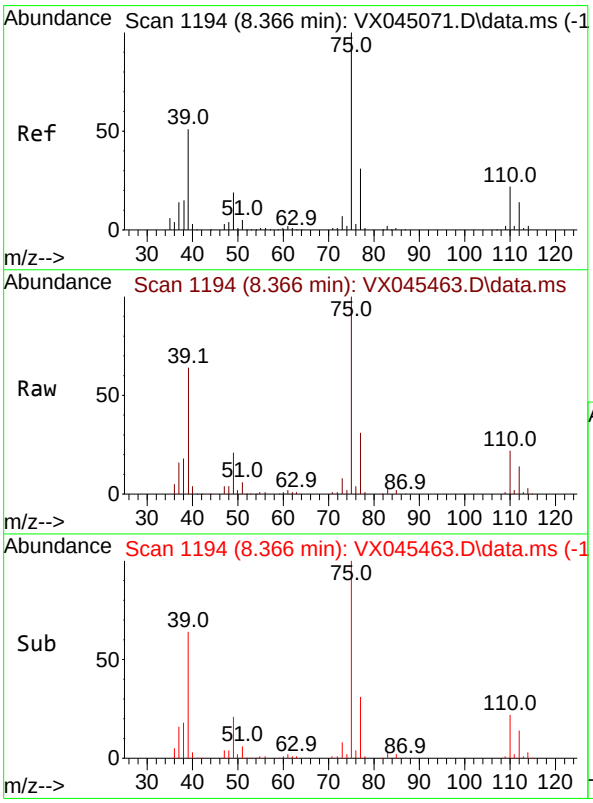
Ion	Ratio	Lower	Upper
75	100		
77	30.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

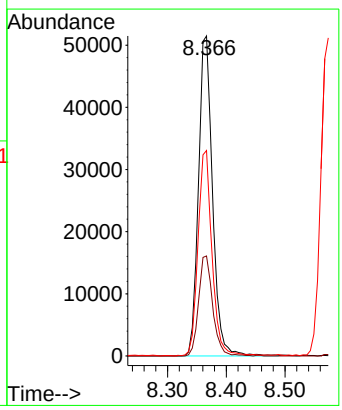
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

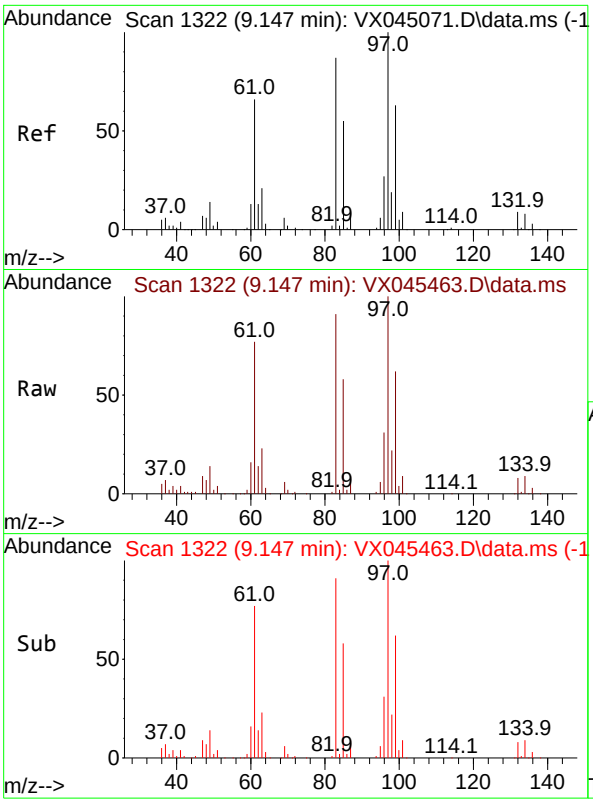


#54
cis-1,3-Dichloropropene
Concen: 59.283 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 85476

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.7	37.1
39	64.0	40.7	61.1#

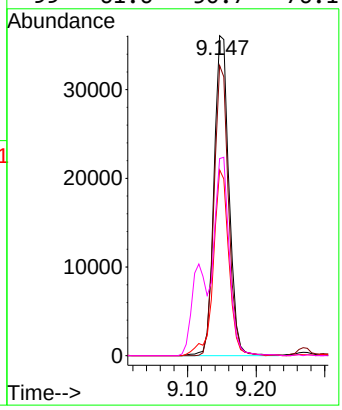




#55
1,1,2-Trichloroethane
Concen: 54.524 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 97 Resp: 5464

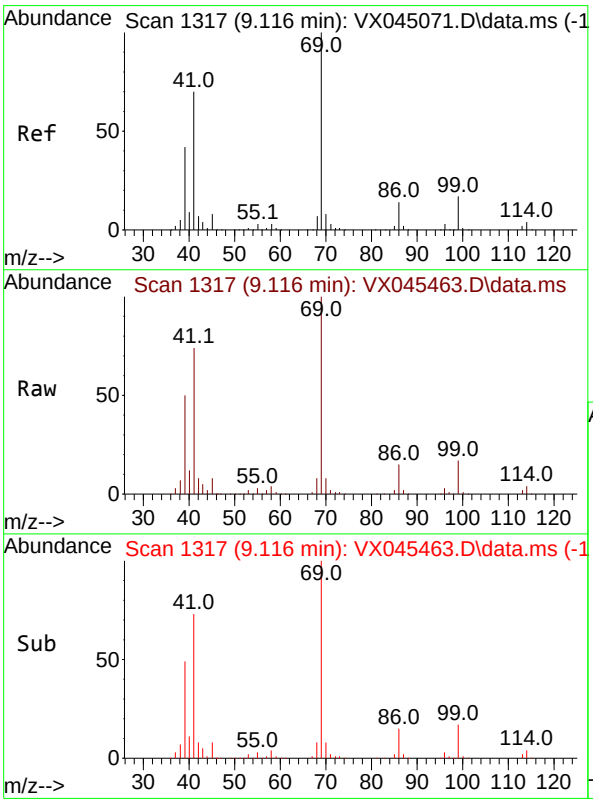
Ion	Ratio	Lower	Upper
97	100		
83	90.7	69.4	104.2
85	58.0	44.1	66.1
99	61.6	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

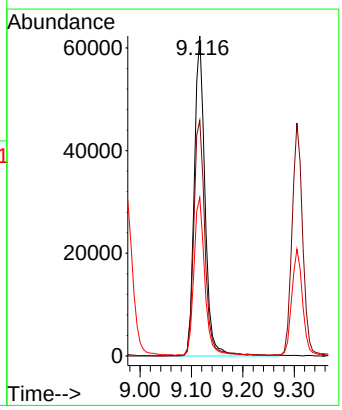
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

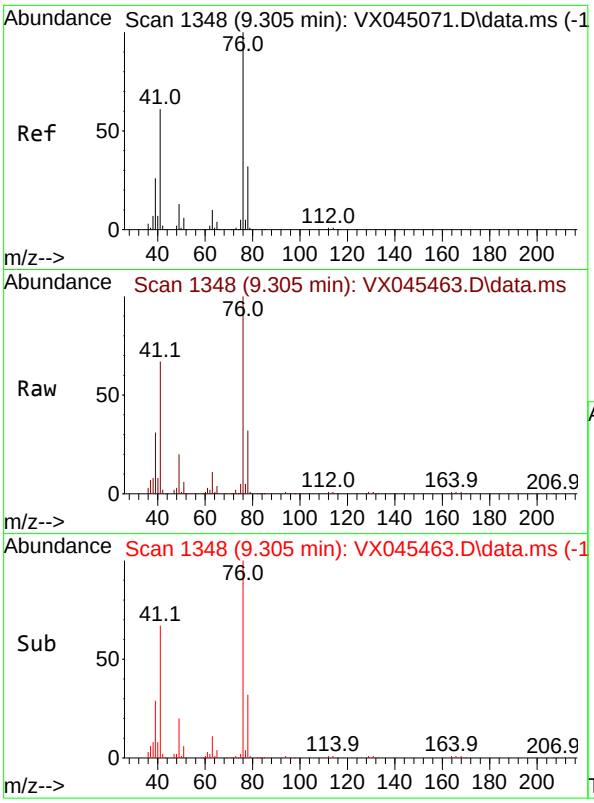


#56
Ethyl methacrylate
Concen: 59.401 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 69 Resp: 90492

Ion	Ratio	Lower	Upper
69	100		
41	76.3	57.0	85.4
39	50.2	34.2	51.4

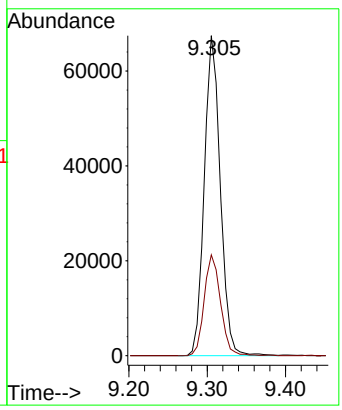




#57
1,3-Dichloropropane
Concen: 55.134 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 76 Resp: 9562

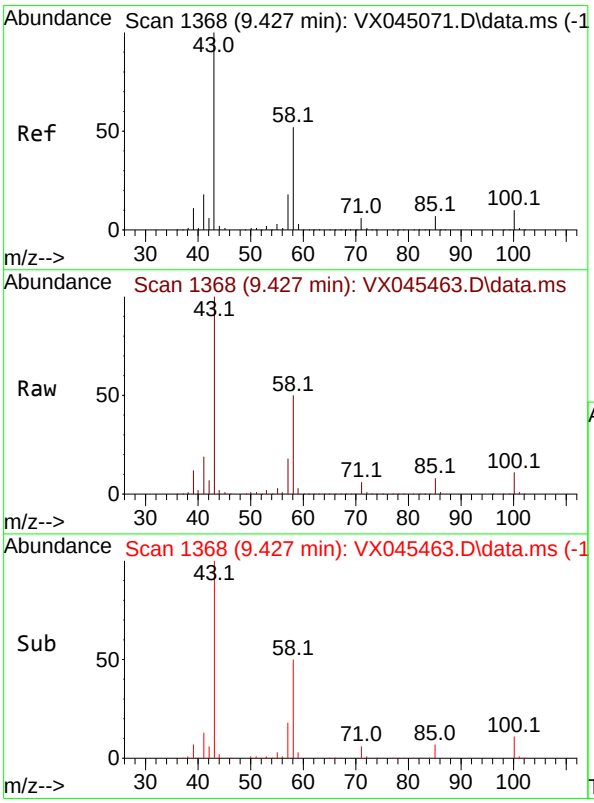
Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

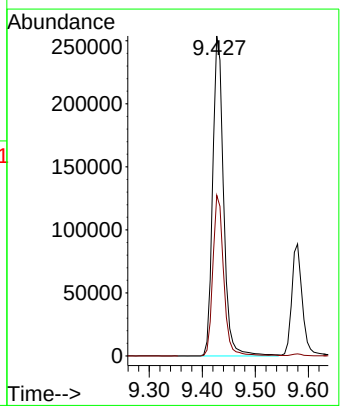
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

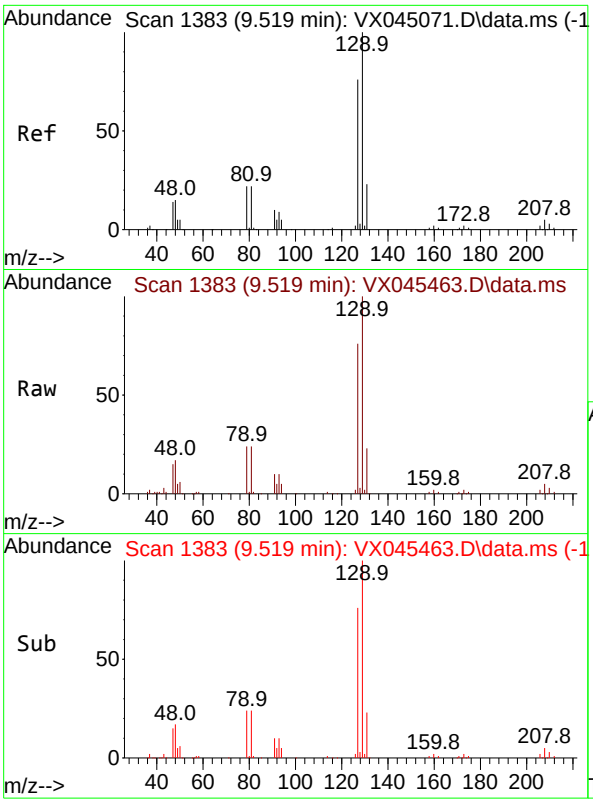


#59
2-Hexanone
Concen: 298.233 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 363249

Ion	Ratio	Lower	Upper
43	100		
58	50.1	25.9	77.6

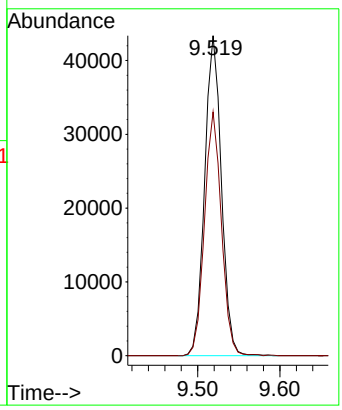




#60
Dibromochloromethane
Concen: 58.493 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:129 Resp: 6129

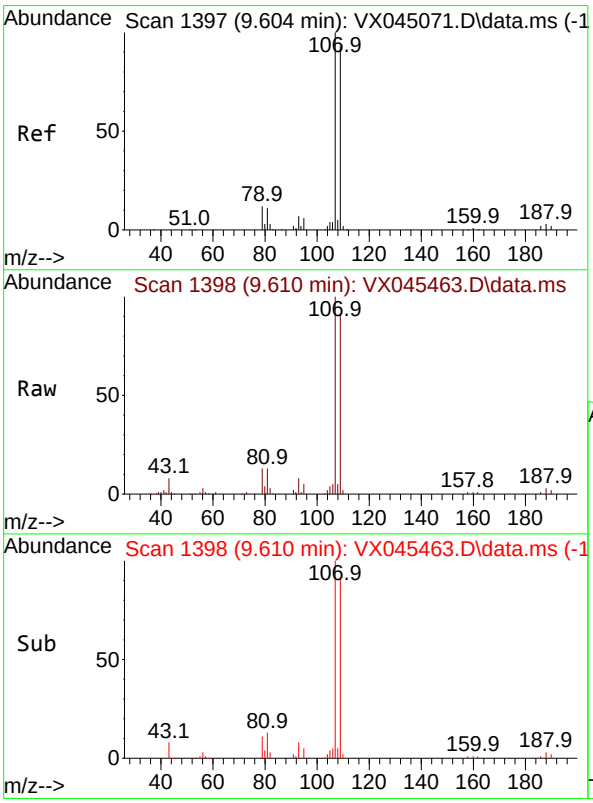
Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

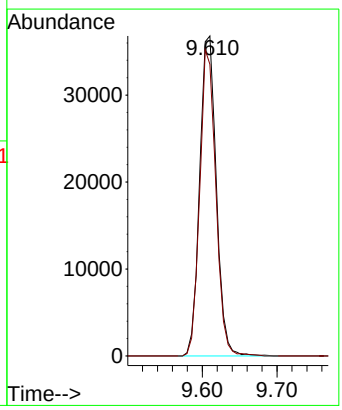
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

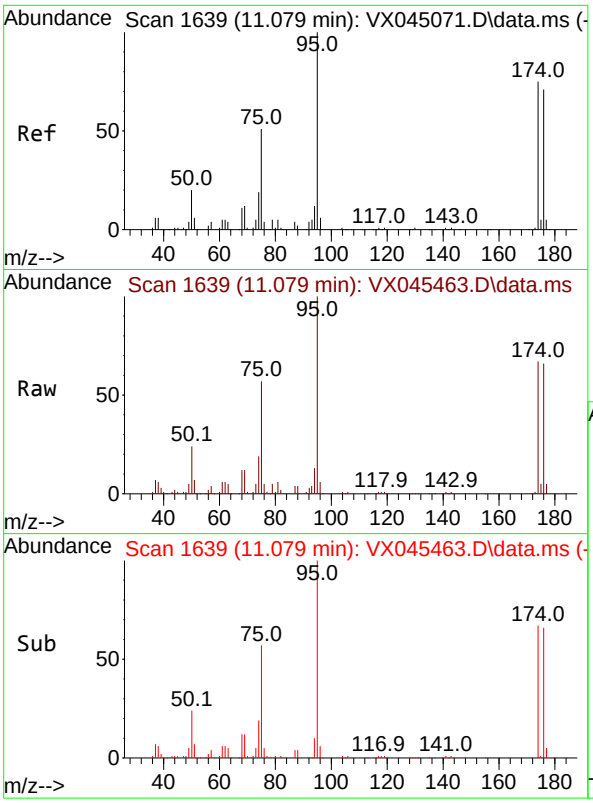


#61
1,2-Dibromoethane
Concen: 56.746 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:107 Resp: 56774

Ion	Ratio	Lower	Upper
107	100		
109	92.6	76.1	114.1

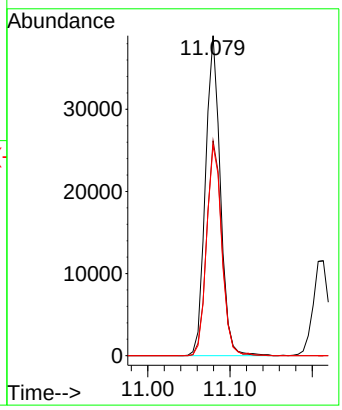




#62
4-Bromofluorobenzene
Concen: 42.526 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 95 Resp: 4894

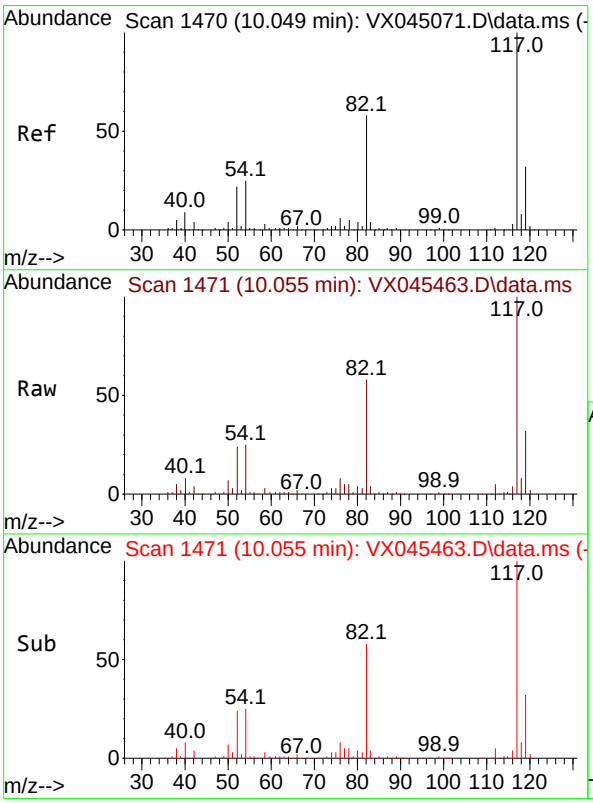
Ion	Ratio	Lower	Upper
95	100		
174	68.5	0.0	148.2
176	66.9	0.0	141.4



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

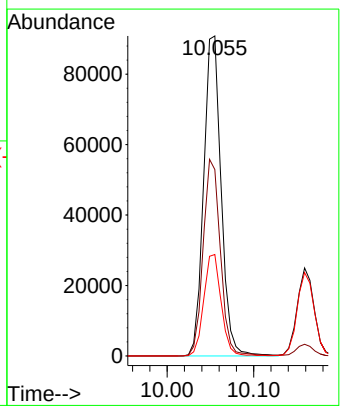
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

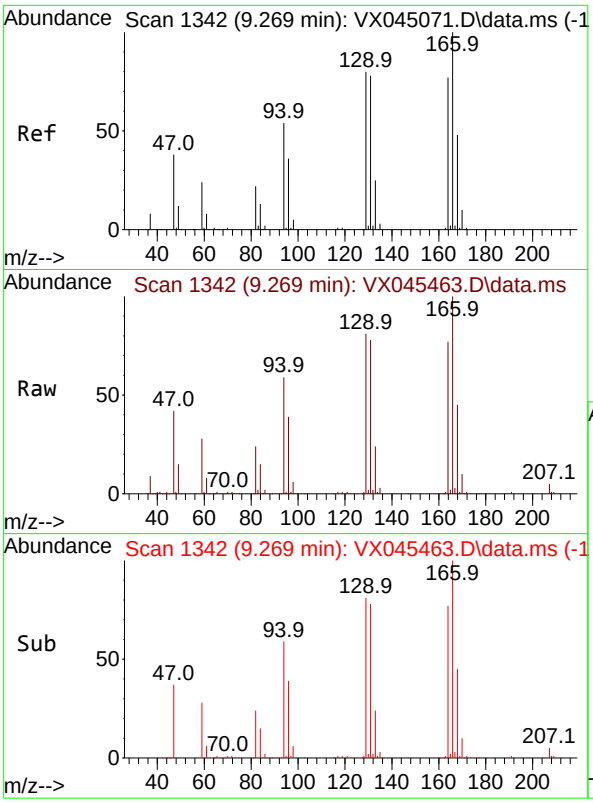


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:117 Resp: 127464

Ion	Ratio	Lower	Upper
117	100		
82	58.3	46.3	69.5
119	31.7	25.7	38.5

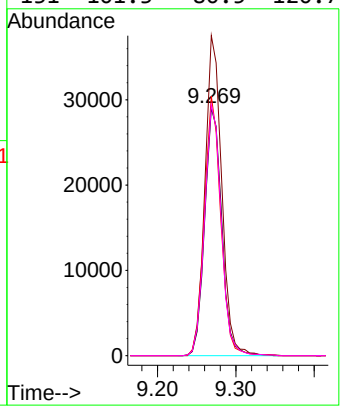




#64
Tetrachloroethene
Concen: 53.511 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:164 Resp: 4368

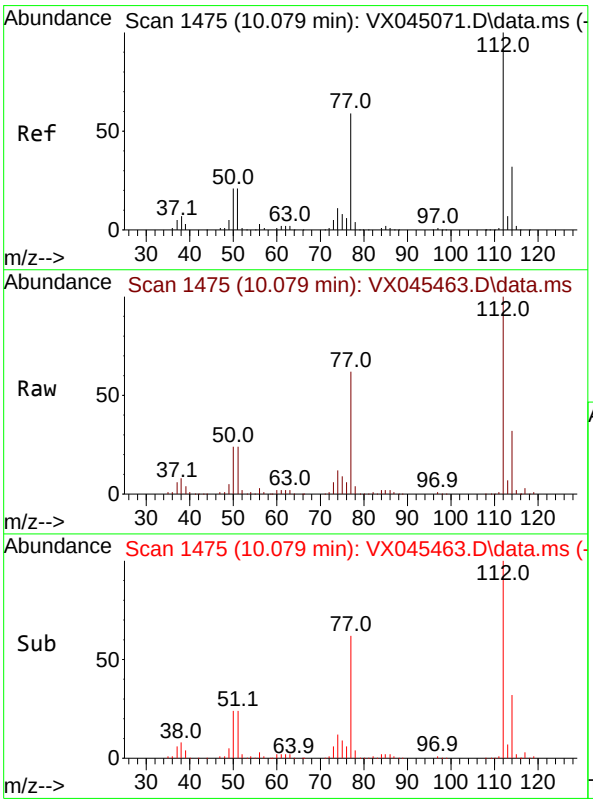
Ion	Ratio	Lower	Upper
164	100		
166	129.3	103.6	155.4
129	105.0	82.7	124.1
131	101.3	80.5	120.7



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

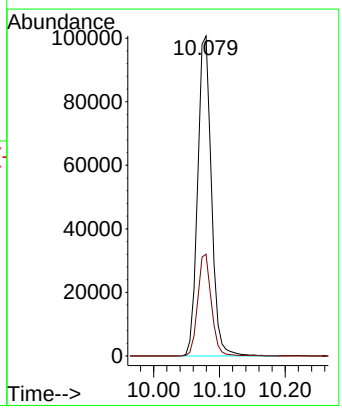
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

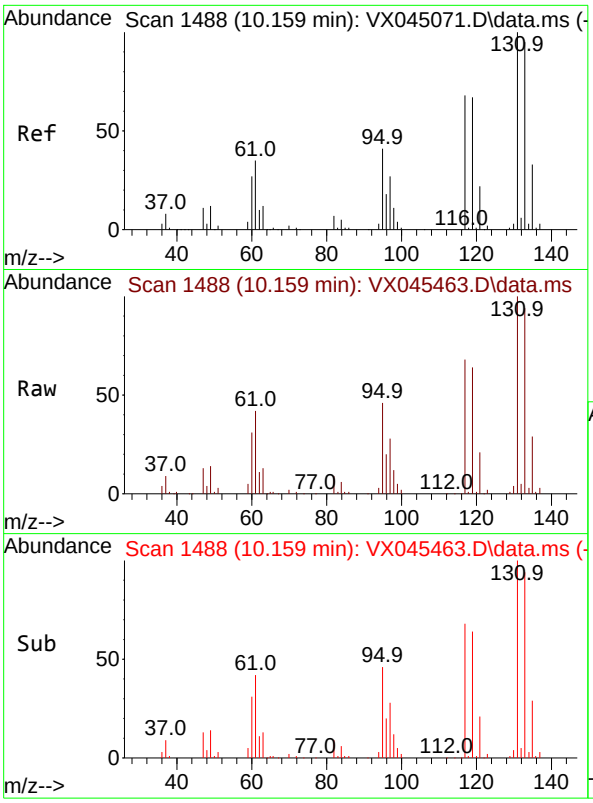


#65
Chlorobenzene
Concen: 54.287 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:112 Resp: 146418

Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 55.459 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

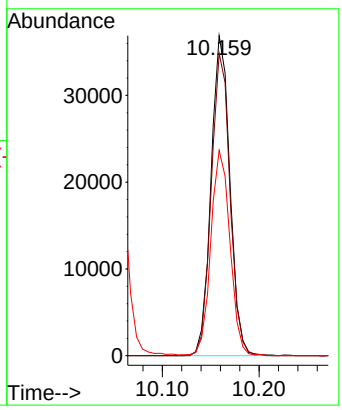
Tgt Ion:131 Resp: 4981

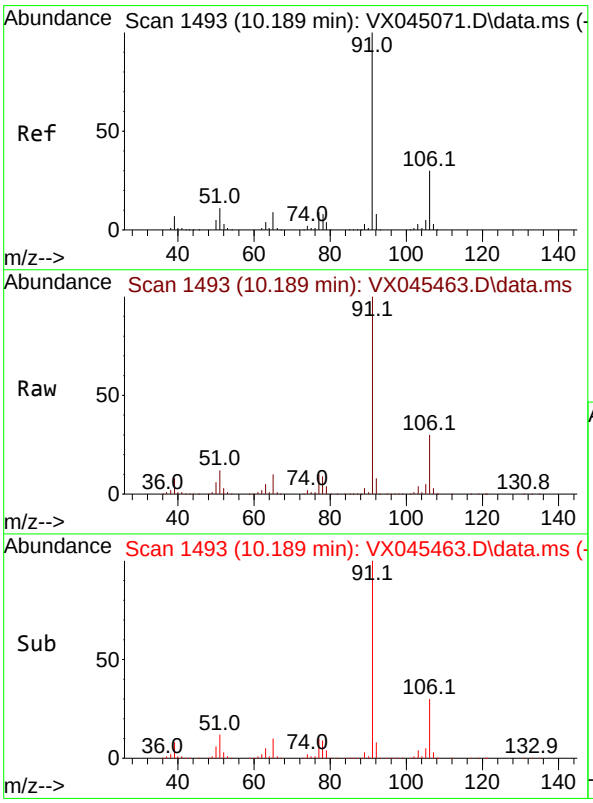
Ion	Ratio	Lower	Upper
131	100		
133	94.4	48.6	145.9
119	65.3	33.9	101.7

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

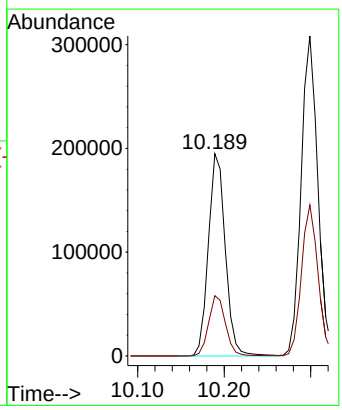


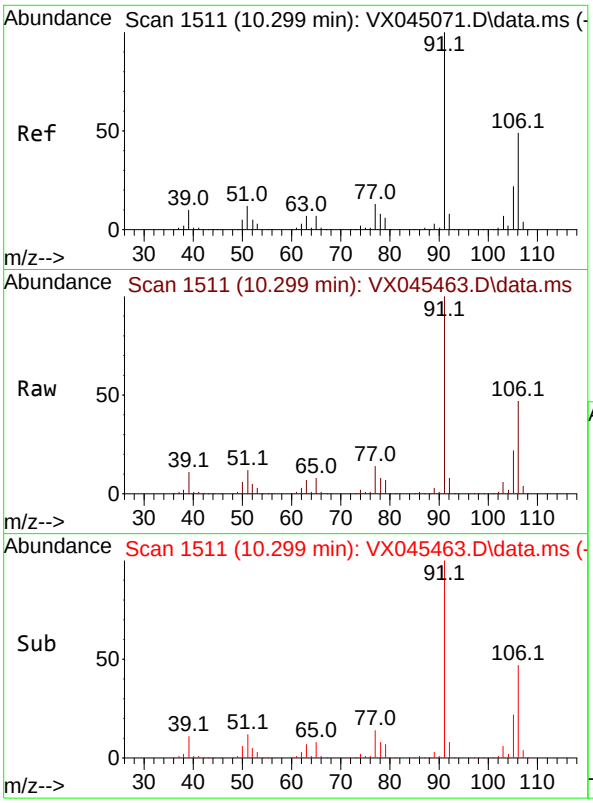


#67
Ethyl Benzene
Concen: 56.409 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 91 Resp: 265098

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.9	35.9

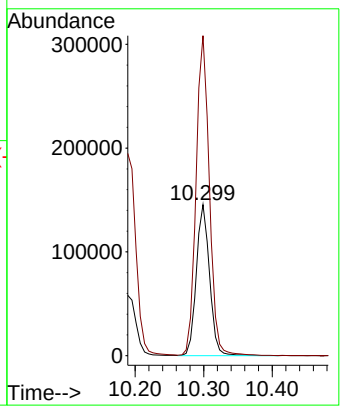




#68
m/p-Xylenes
Concen: 113.714 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:106 Resp: 19563

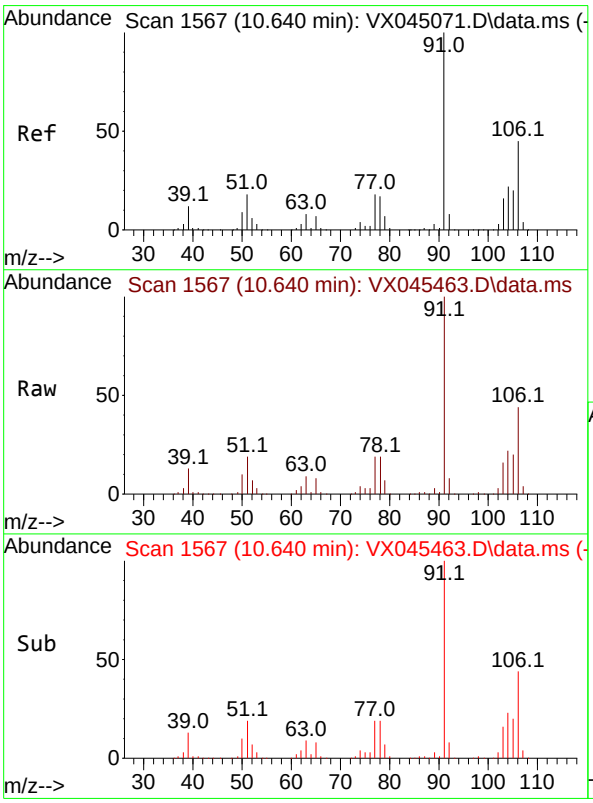
Ion	Ratio	Lower	Upper
106	100		
91	212.7	165.4	248.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

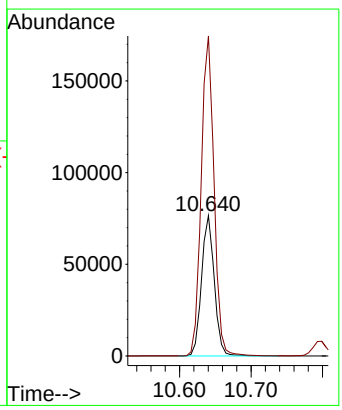
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

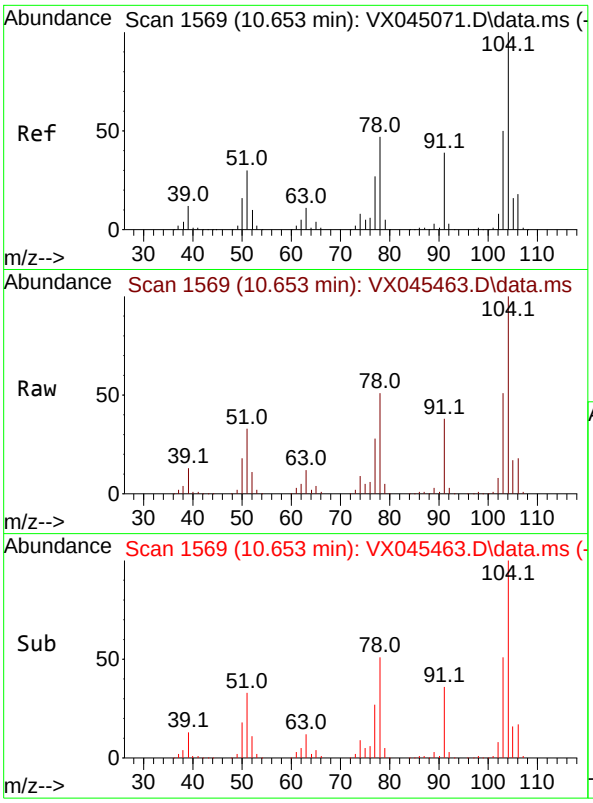


#69
o-Xylene
Concen: 54.554 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:106 Resp: 94658

Ion	Ratio	Lower	Upper
106	100		
91	229.7	109.9	329.6

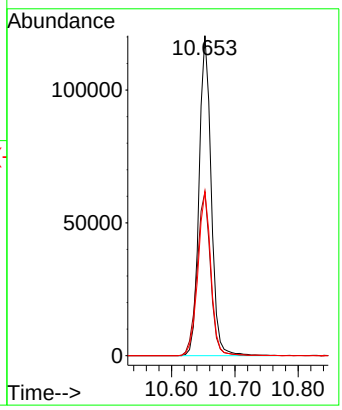




#70
Styrene
Concen: 57.174 ug/l
RT: 10.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:104 Resp: 16051

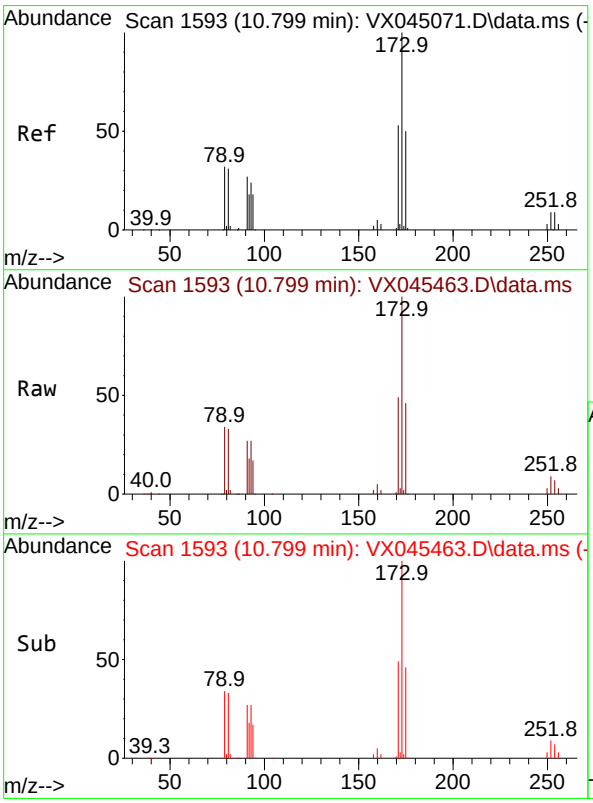
Ion	Ratio	Lower	Upper
104	100		
78	56.7	42.2	63.4
103	54.9	43.8	65.8



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

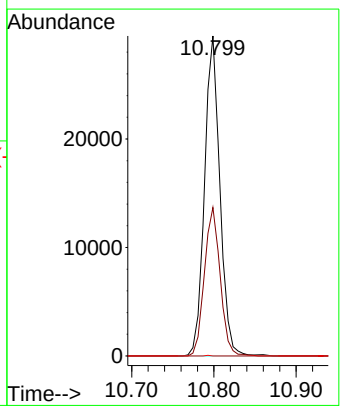
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

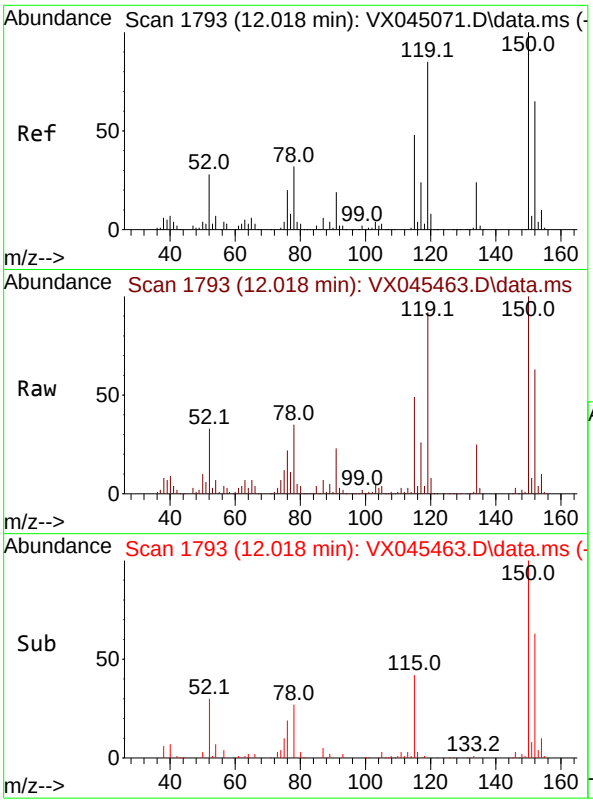


#71
Bromoform
Concen: 56.569 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:173 Resp: 38315

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.6
254	0.1	0.0	0.0#

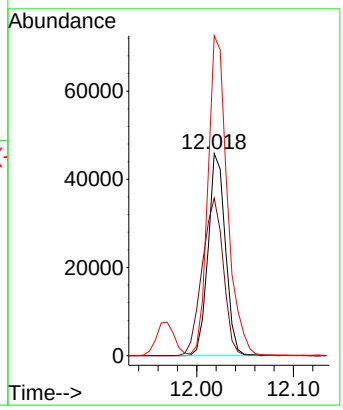




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:152 Resp: 5689

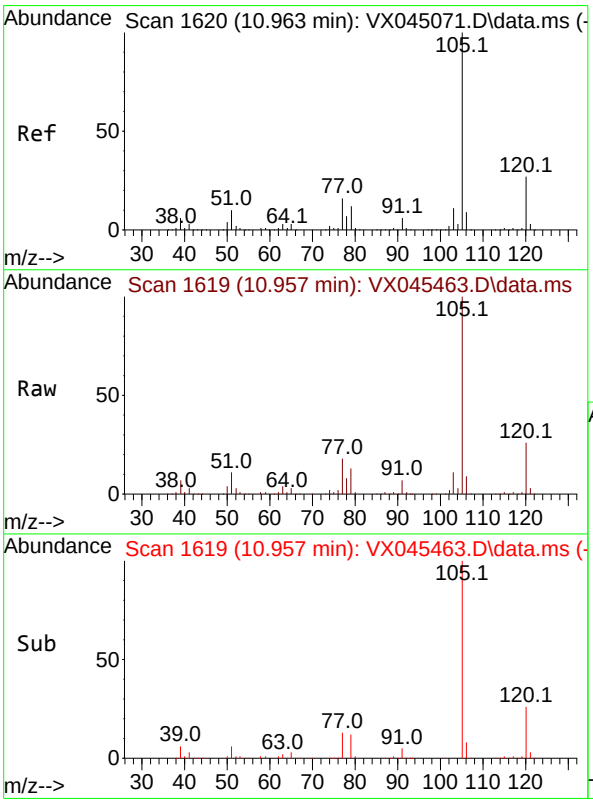
Ion	Ratio	Lower	Upper
152	100		
115	95.4	44.2	132.6
150	177.1	0.0	349.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

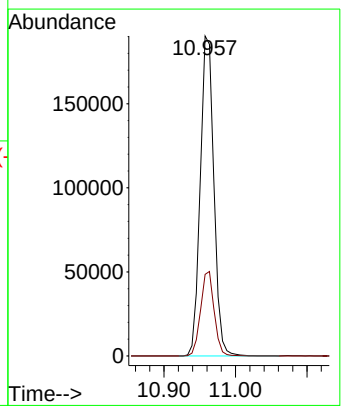
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

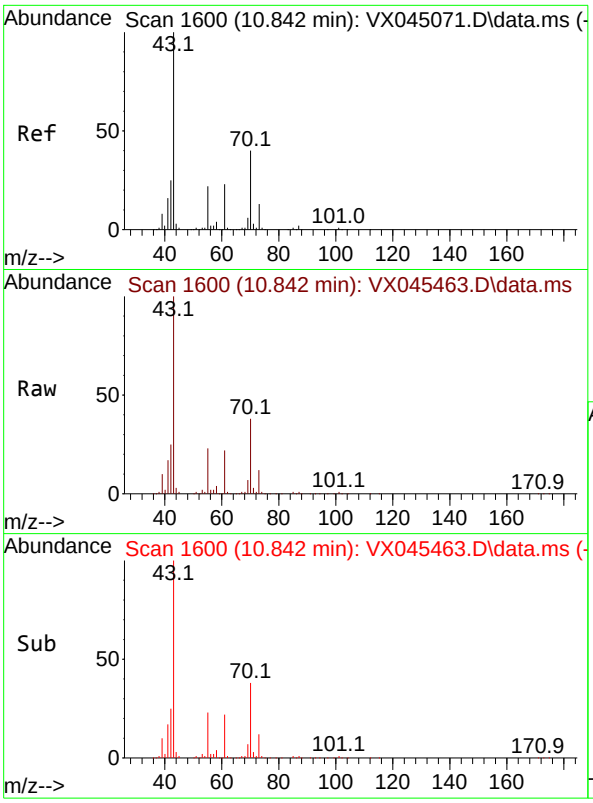


#73
Isopropylbenzene
Concen: 56.703 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:105 Resp: 251806

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

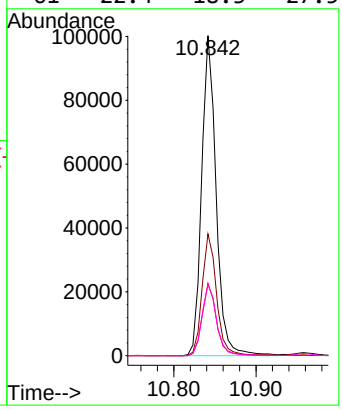




#74
N-amyl acetate
Concen: 58.866 ug/l
RT: 10.842 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 12266

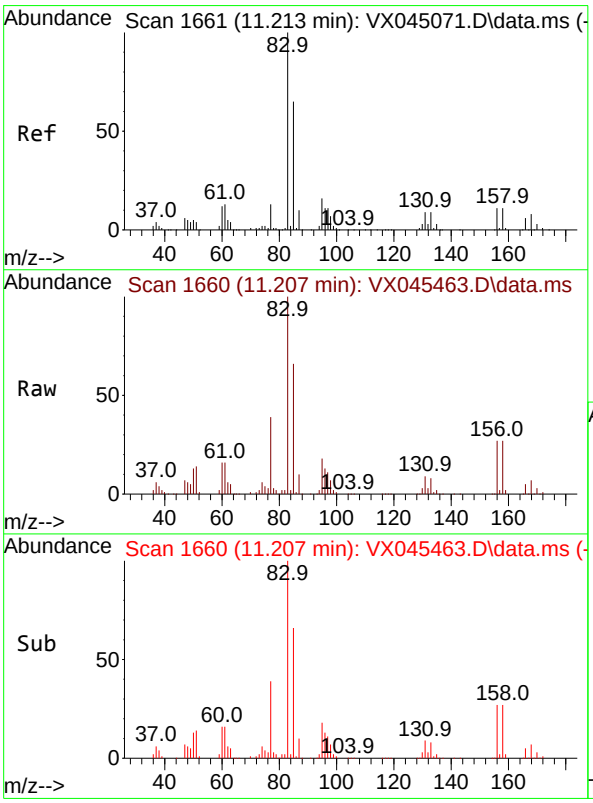
Ion	Ratio	Lower	Upper
43	100		
70	38.3	31.8	47.6
55	22.6	18.3	27.5
61	22.4	18.3	27.5



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

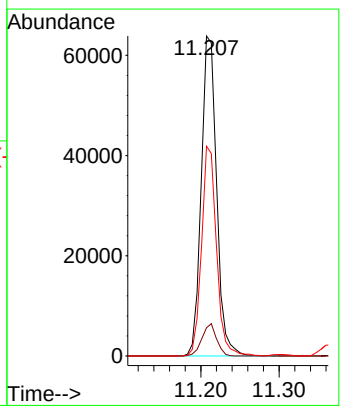
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

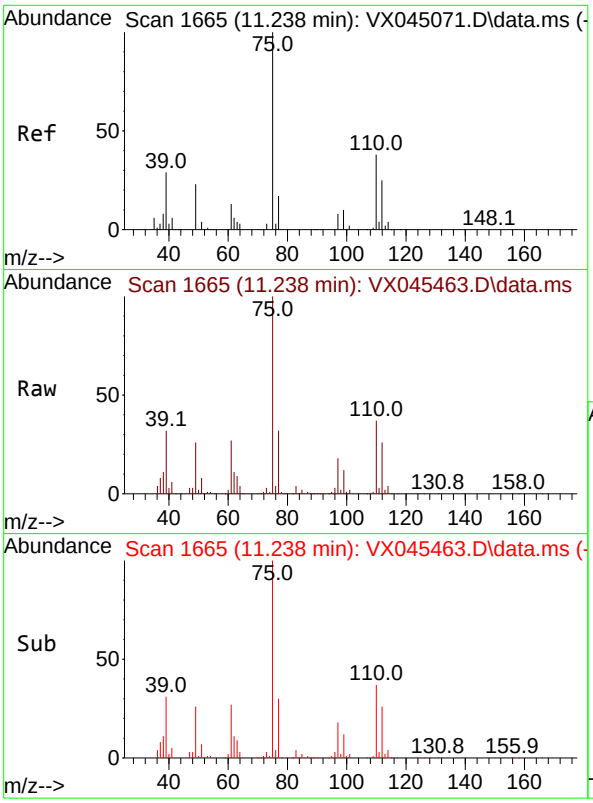


#75
1,1,2,2-Tetrachloroethane
Concen: 53.329 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 83 Resp: 86905

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.4
85	63.7	31.7	95.1

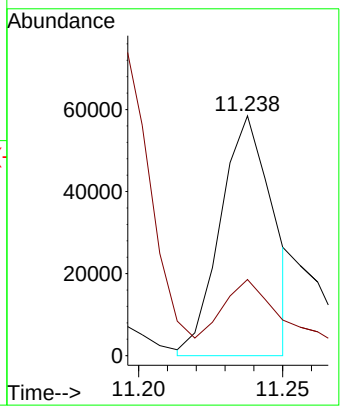




#76
1,2,3-Trichloropropane
Concen: 55.826 ug/l m
RT: 11.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 7392

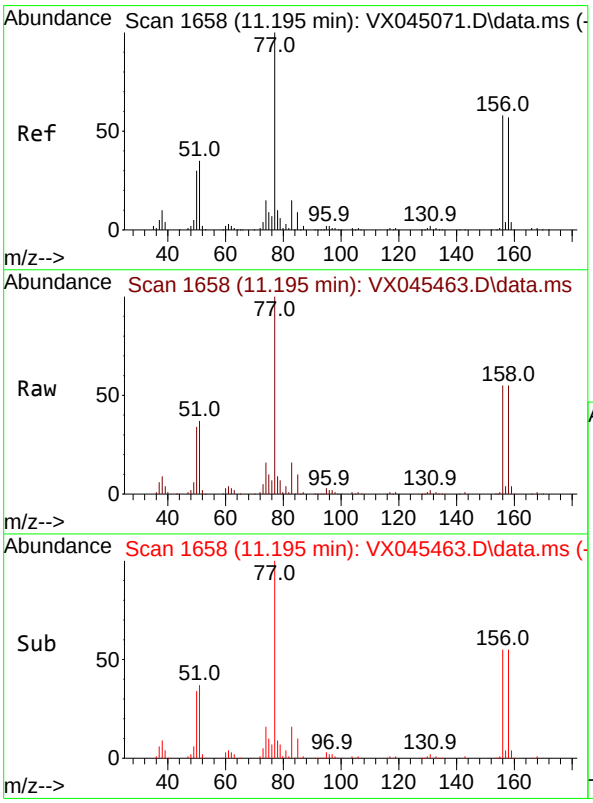
Ion	Ratio	Lower	Upper
75	100		
77	40.0	20.7	62.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

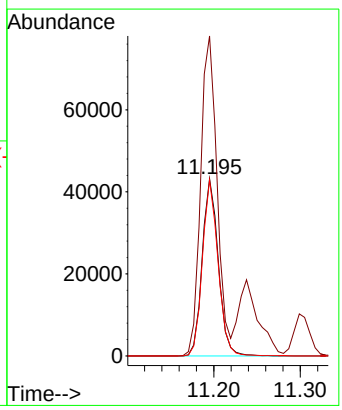
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

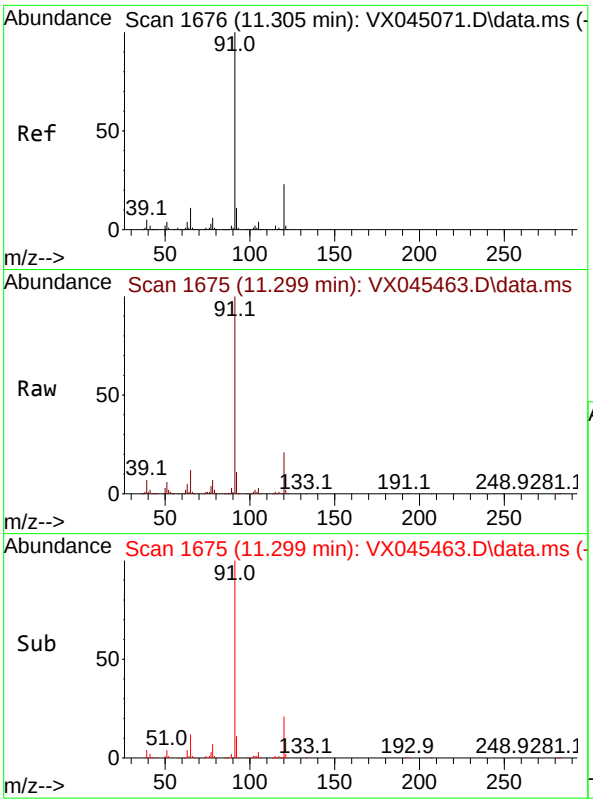


#77
Bromobenzene
Concen: 53.075 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:156 Resp: 55610

Ion	Ratio	Lower	Upper
156	100		
77	184.8	85.8	257.4
158	96.9	48.4	145.2





#78
n-propylbenzene
Concen: 59.305 ug/l
RT: 11.299 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

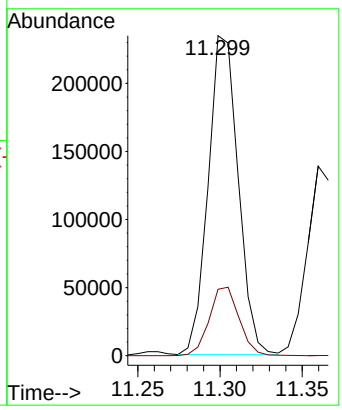
Tgt Ion: 91 Resp: 29749

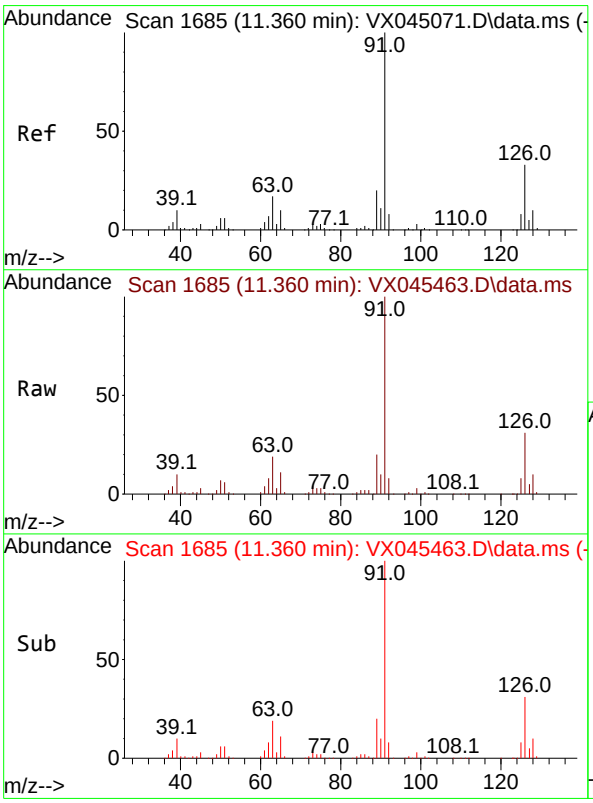
Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

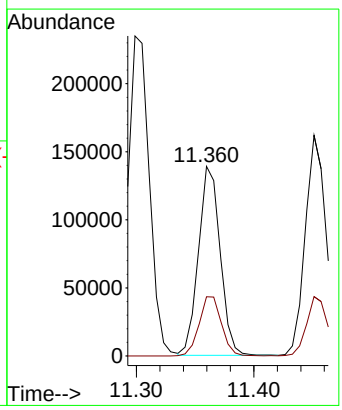


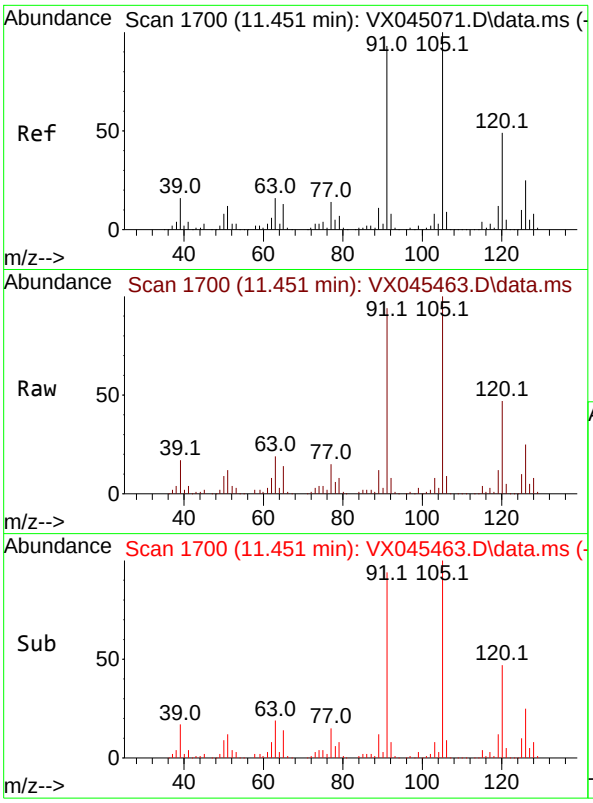


#79
2-Chlorotoluene
Concen: 55.818 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 91 Resp: 178326

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.4	49.4

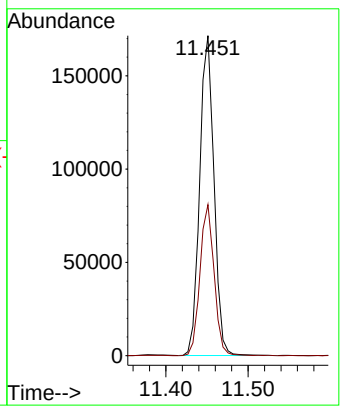




#80
1,3,5-Trimethylbenzene
Concen: 57.671 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:105 Resp: 20707

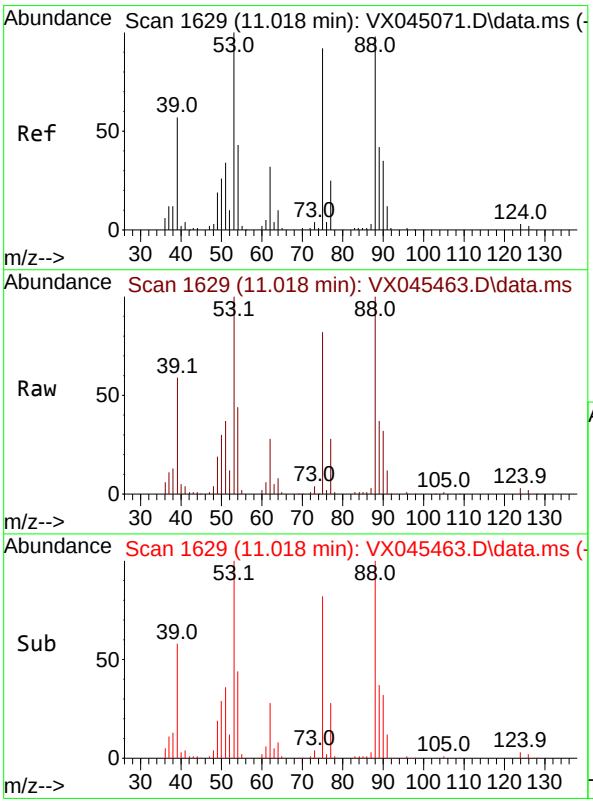
Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.2



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

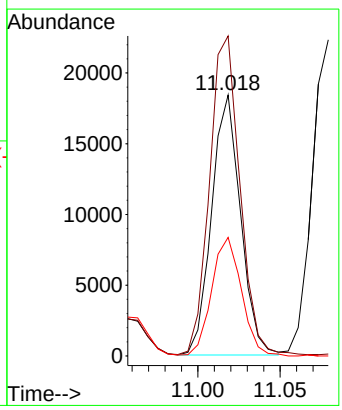
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

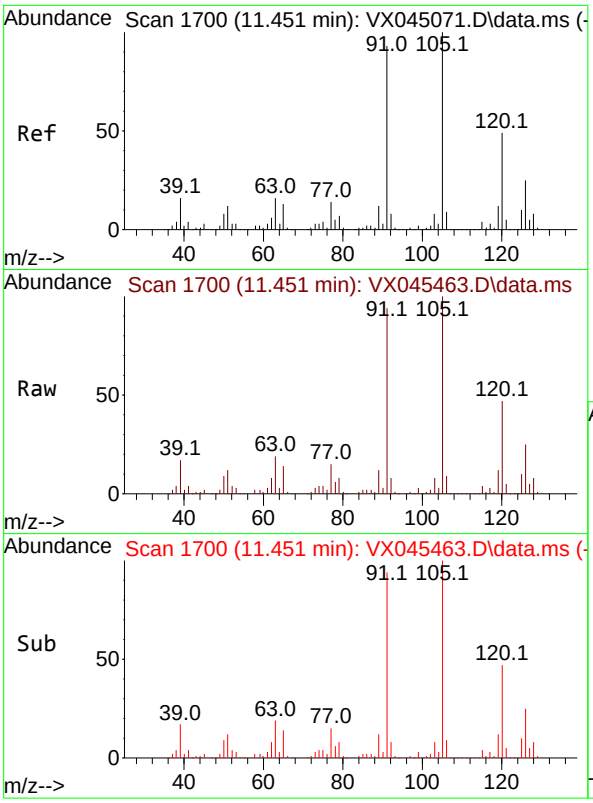


#81
trans-1,4-Dichloro-2-butene
Concen: 58.039 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 22458

Ion	Ratio	Lower	Upper
75	100		
53	128.5	88.5	132.7
89	47.0	36.2	54.4





#82
4-Chlorotoluene
Concen: 57.976 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

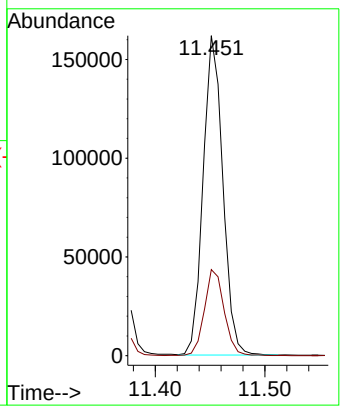
Tgt Ion: 91 Resp: 20186

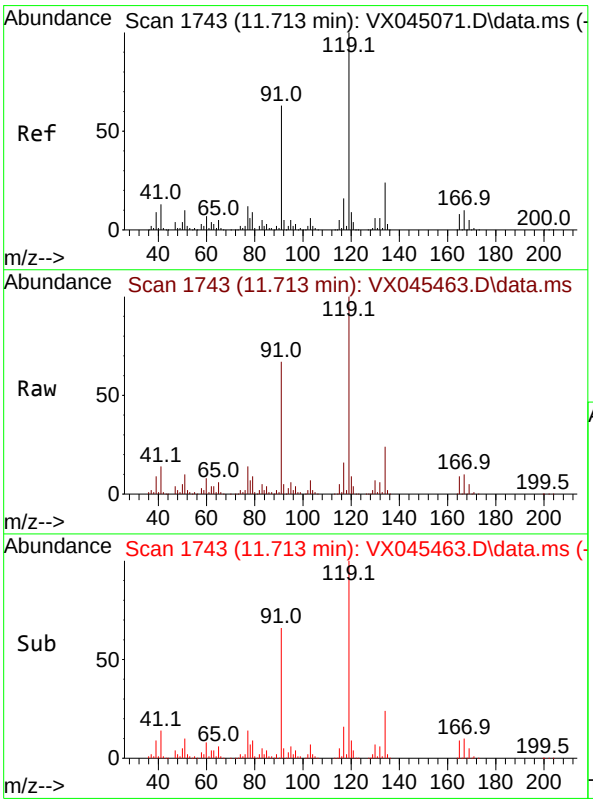
Ion	Ratio	Lower	Upper
91	100		
126	27.2	14.1	42.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

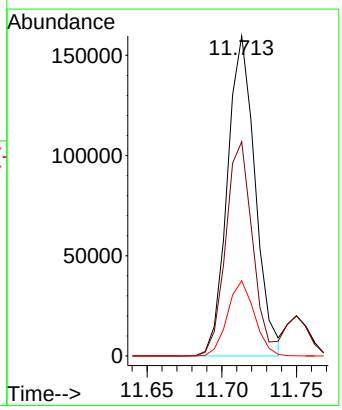


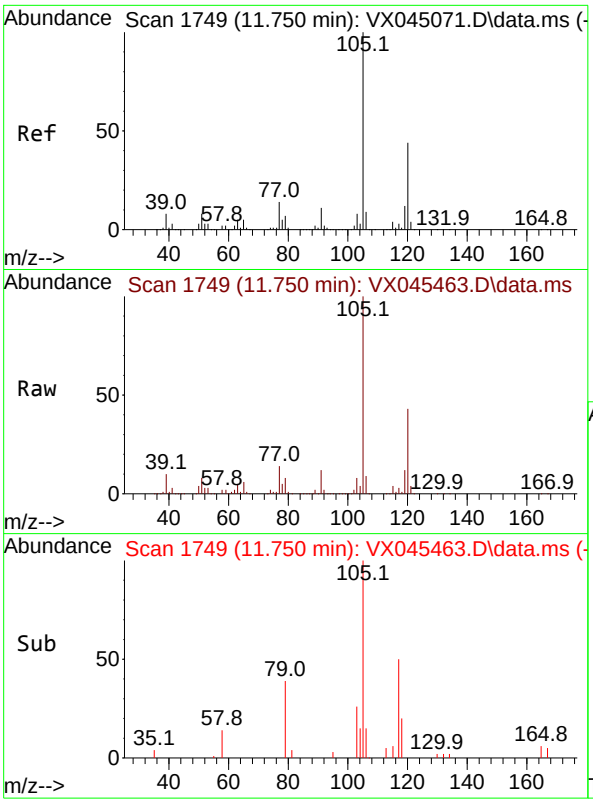


#83
tert-Butylbenzene
Concen: 55.895 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:119 Resp: 206216

Ion	Ratio	Lower	Upper
119	100		
91	65.3	30.7	92.1
134	22.8	11.7	35.0

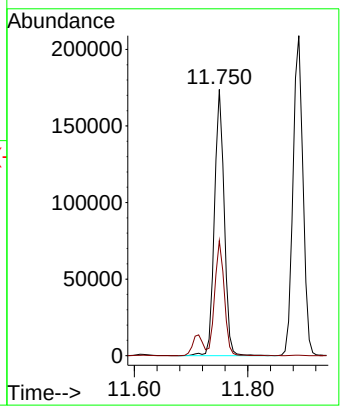




#84
1,2,4-Trimethylbenzene
Concen: 57.494 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:105 Resp: 20772

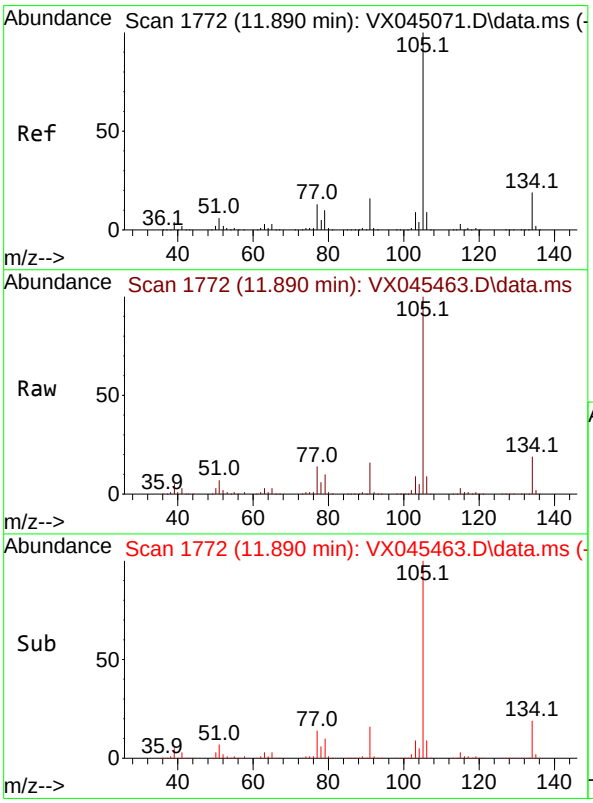
Ion	Ratio	Lower	Upper
105	100		
120	42.4	22.1	66.1



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

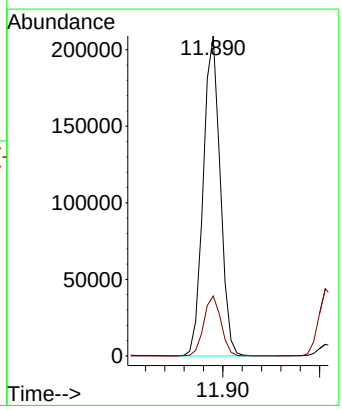
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

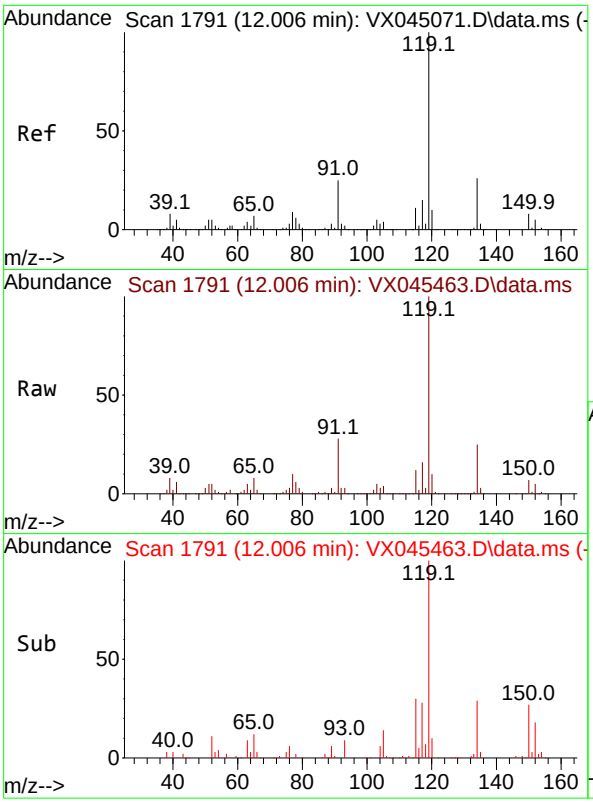


#85
sec-Butylbenzene
Concen: 57.657 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:105 Resp: 254806

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.4

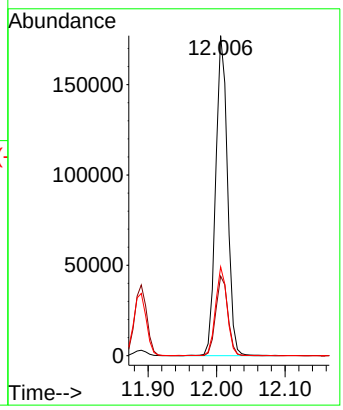




#86
p-Isopropyltoluene
Concen: 59.073 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:119 Resp: 21097

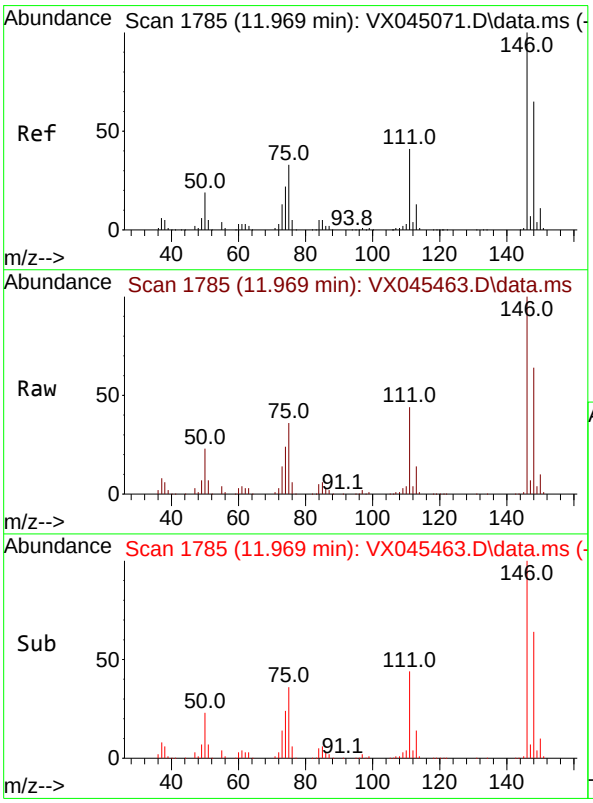
Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.9	38.6
91	27.2	12.7	38.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

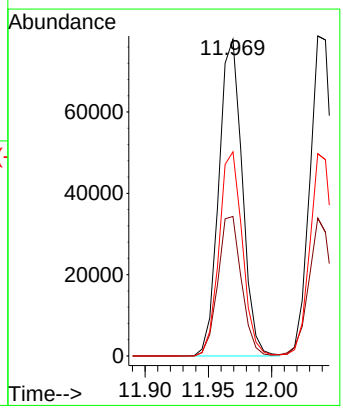
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

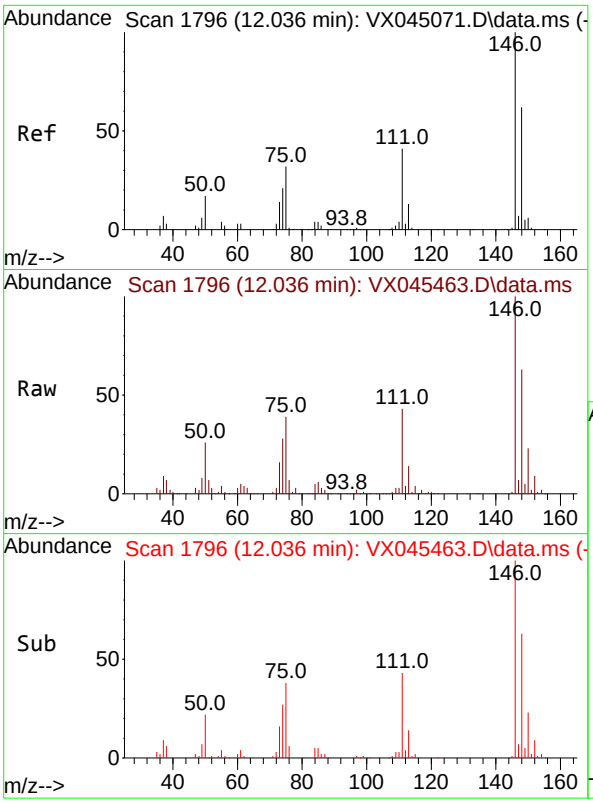


#87
1,3-Dichlorobenzene
Concen: 53.550 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:146 Resp: 100092

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.1	63.4
148	64.2	31.9	95.7

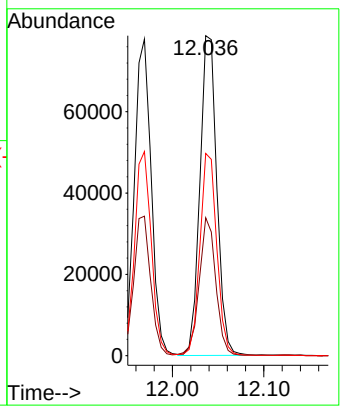




#88
1,4-Dichlorobenzene
Concen: 53.457 ug/l
RT: 12.036 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:146 Resp: 10108

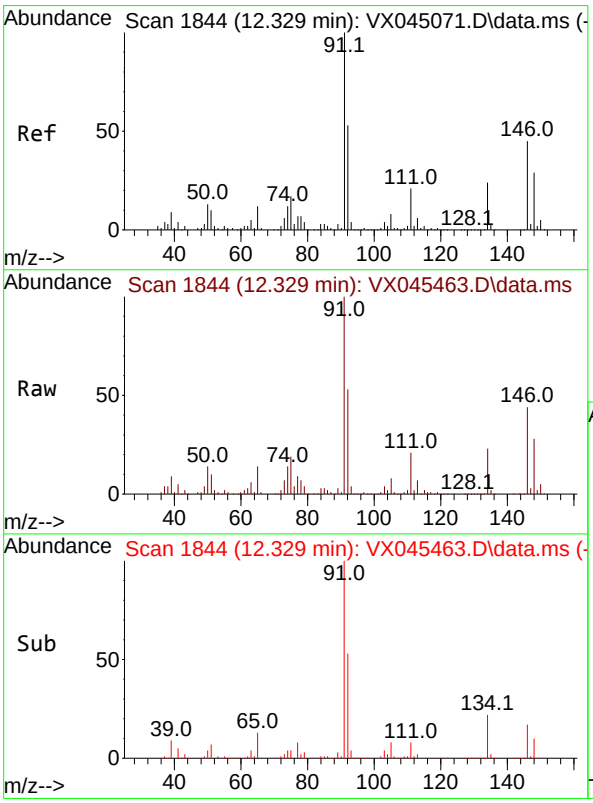
Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	62.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

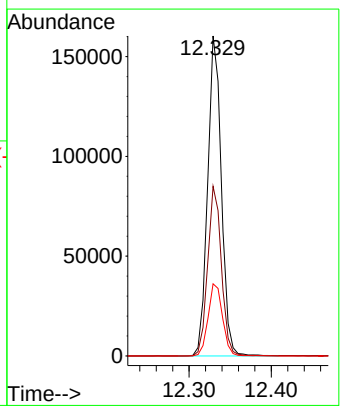
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

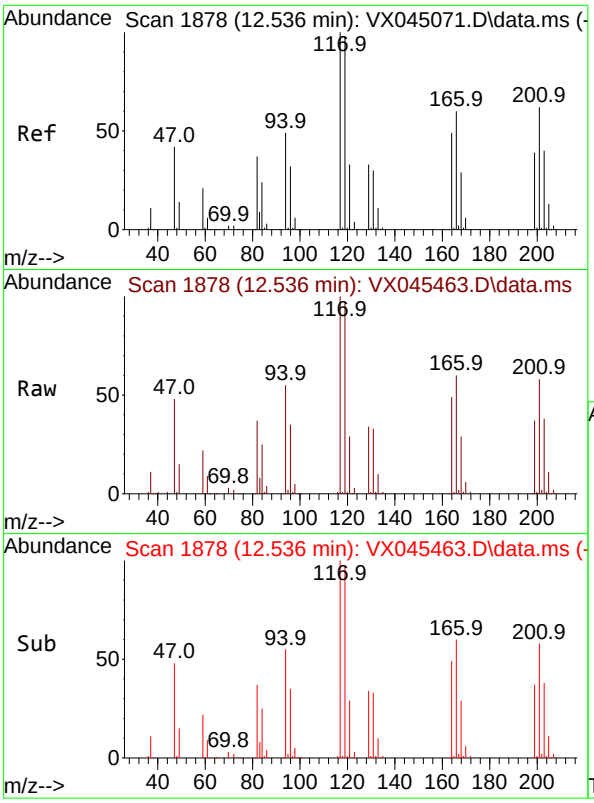


#89
n-Butylbenzene
Concen: 60.389 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 91 Resp: 185757

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.0
134	23.7	12.2	36.6

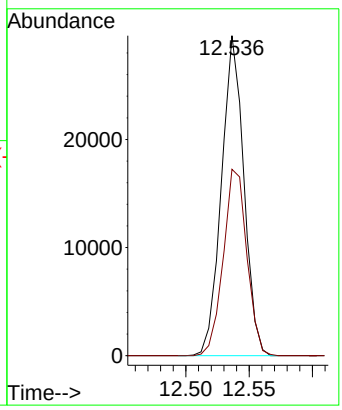




#90
Hexachloroethane
Concen: 56.286 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:117 Resp: 3636

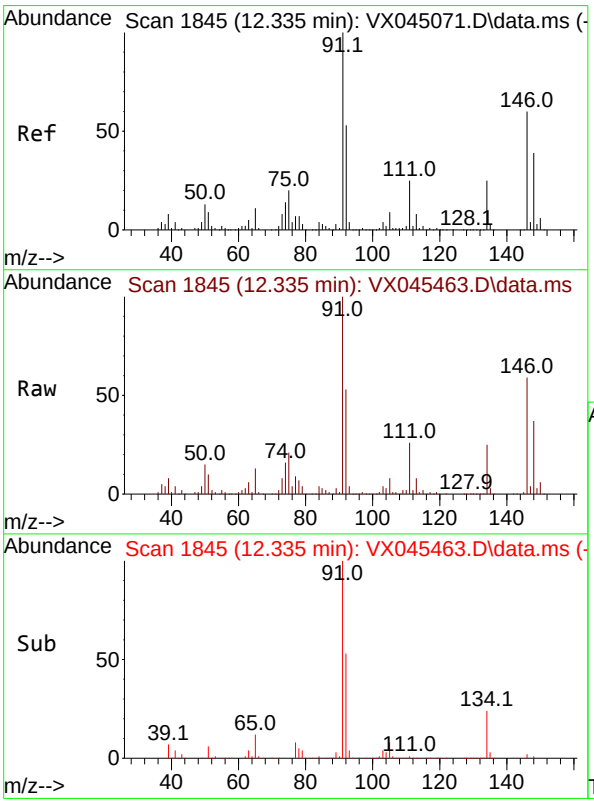
Ion	Ratio	Lower	Upper
117	100		
201	61.5	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

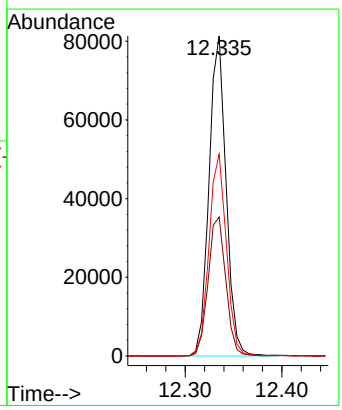
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

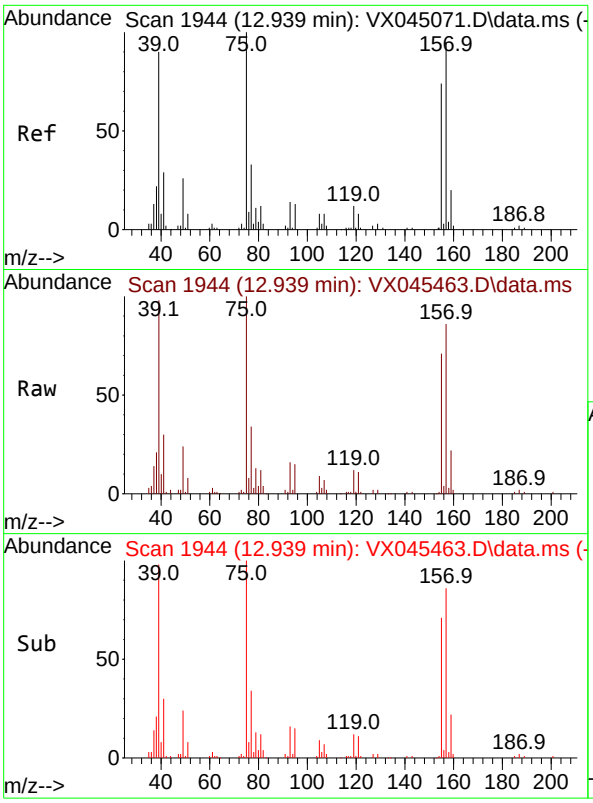


#91
1,2-Dichlorobenzene
Concen: 53.249 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:146 Resp: 99842

Ion	Ratio	Lower	Upper
146	100		
111	45.0	21.6	65.0
148	64.2	31.9	95.9





#92
1,2-Dibromo-3-Chloropropane
Concen: 60.670 ug/l
RT: 12.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

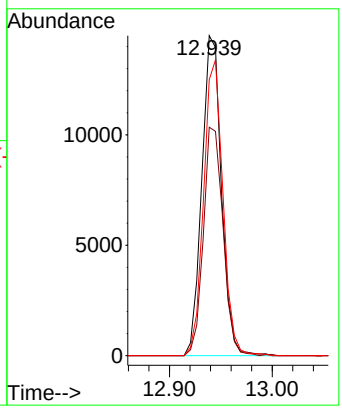
Tgt Ion: 75 Resp: 1926

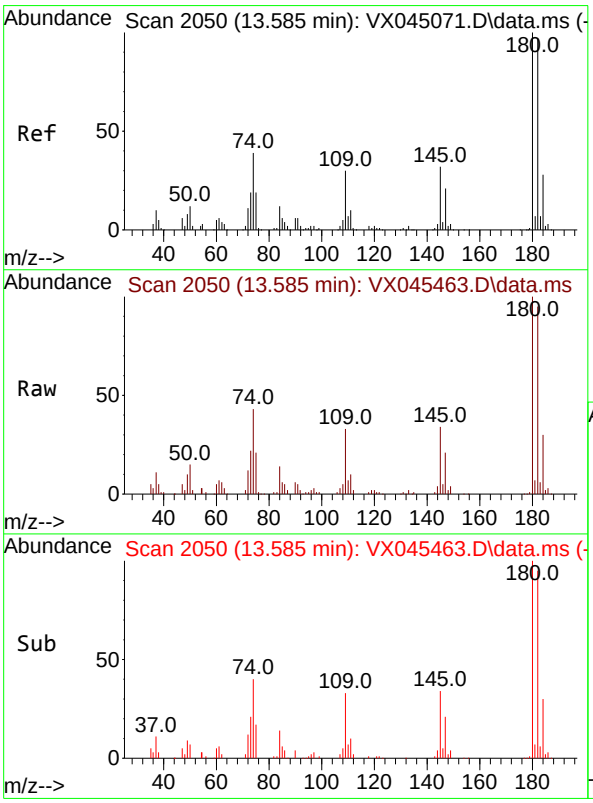
Ion	Ratio	Lower	Upper
75	100		
155	71.4	39.6	118.7
157	90.8	51.1	153.4

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

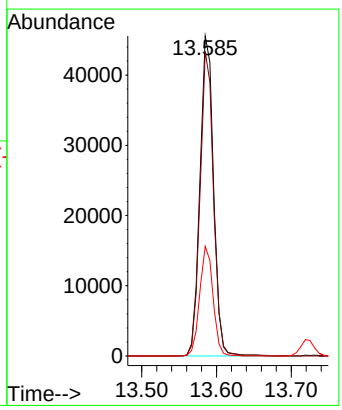


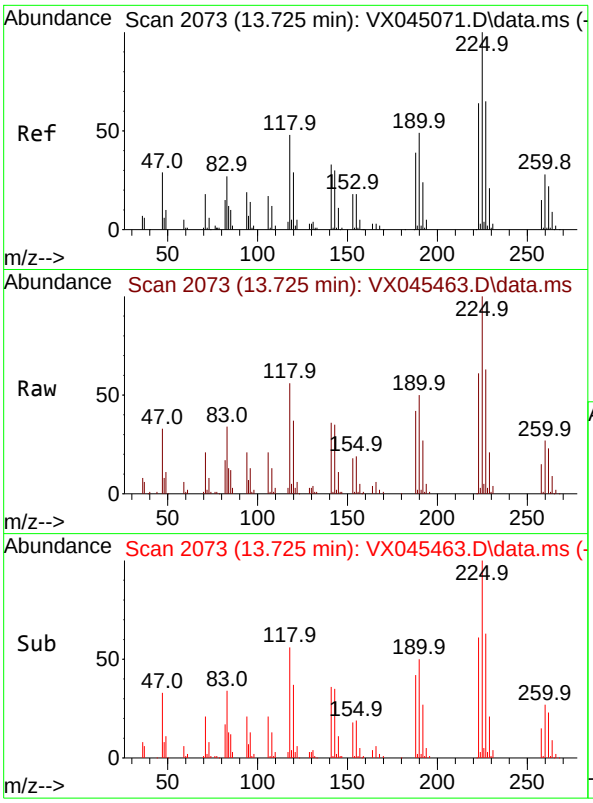


#93
1,2,4-Trichlorobenzene
Concen: 53.924 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:180 Resp: 57572

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.3	141.9
145	33.6	16.3	48.9

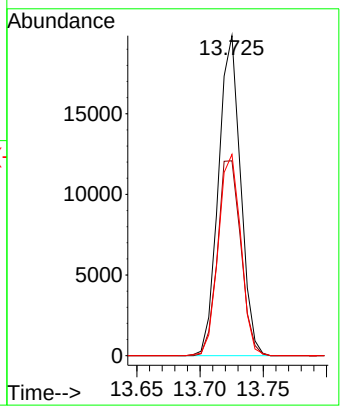




#94
Hexachlorobutadiene
Concen: 55.056 ug/l
RT: 13.725 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:225 Resp: 2409

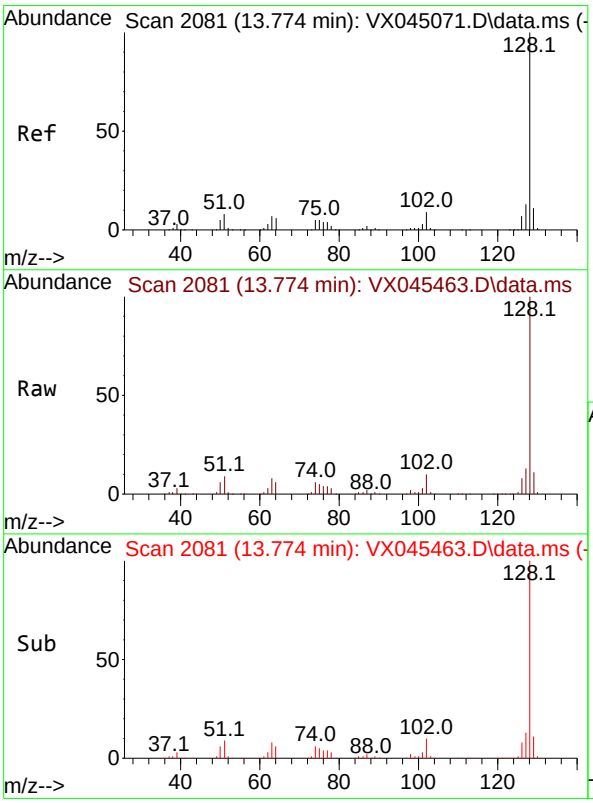
Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.9	95.7
227	64.0	31.4	94.0



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

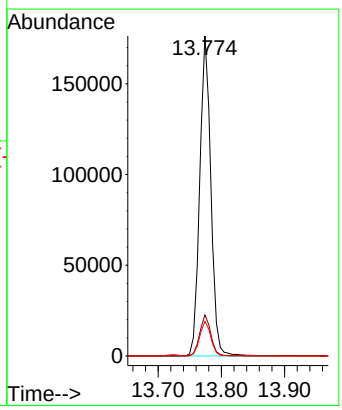
Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

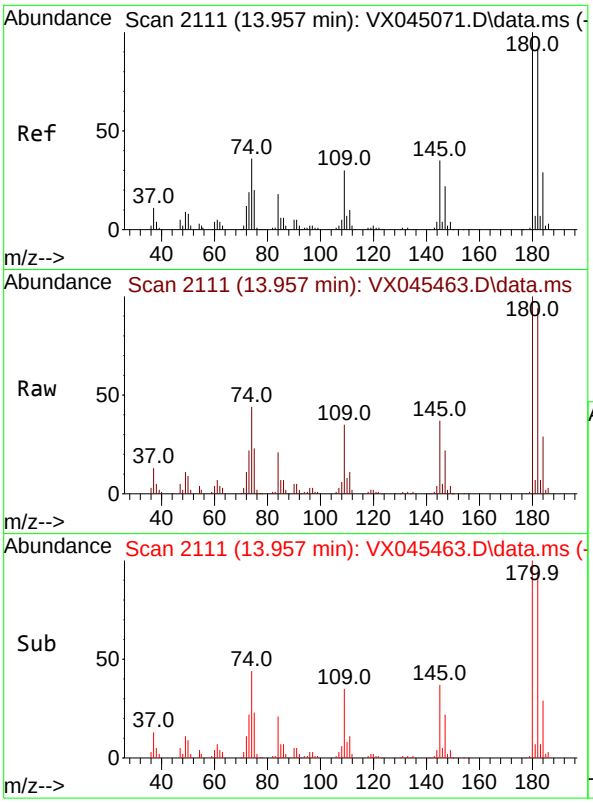


#95
Naphthalene
Concen: 52.653 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:128 Resp: 215982

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.8	8.7	13.1

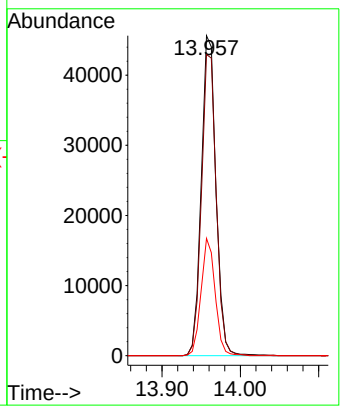




#96
1,2,3-Trichlorobenzene
Concen: 52.637 ug/l
RT: 13.957 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:180 Resp: 5928

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.5	142.6
145	35.2	17.0	50.9



Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045068.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	1,4-Dichlorobenzene	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Carbon Tetrachloride	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Chloroethane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Ethyl Acetate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methacrylonitrile	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methyl methacrylate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	Tert butyl alcohol	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC020	VX045070.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:21 AM	MMDadoda	2/28/2025 11:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX045071.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:25 AM	MMDadoda	2/28/2025 11:09:35 AM	Peak Integrated by Software
VSTDICC100	VX045072.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:30 AM	MMDadoda	2/28/2025 11:09:37 AM	Peak Integrated by Software
VSTDICC150	VX045073.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:33 AM	MMDadoda	2/28/2025 11:09:42 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX045075.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:38 AM	MMDadoda	2/28/2025 11:09:44 AM	Peak Integrated by Software
VSTDCCC050	VX045077.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045077.D	Tert butyl alcohol	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045098.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:59 AM	MMDadoda	3/3/2025 1:49:50 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX032525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045431.D	1,2,3-Trichloropropane	JOHN	3/26/2025 10:03:11 AM	MMDadoda	3/26/2025 12:58:05 PM	Peak Integrated by Software
VX0325WBS02	VX045436.D	1,2,3-Trichloropropane	JOHN	3/26/2025 10:03:20 AM	MMDadoda	3/26/2025 1:08:13 PM	Peak Integrated by Software
VSTDCCC050	VX045455.D	1,2,3-Trichloropropane	JOHN	3/26/2025 10:03:56 AM	MMDadoda	3/26/2025 1:08:04 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX032625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045457.D	1,2,3-Trichloropropane	JOHN	3/28/2025 9:49:16 AM	MMDadoda	3/28/2025 3:29:30 PM	Peak Integrated by Software
VX0326WBS01	VX045460.D	1,2,3-Trichloropropane	JOHN	3/28/2025 9:49:22 AM	MMDadoda	3/28/2025 3:29:31 PM	Peak Integrated by Software
Q1629-15MS	VX045462.D	1,2,3-Trichloropropane	JOHN	3/28/2025 9:49:27 AM	MMDadoda	3/28/2025 3:29:33 PM	Peak Integrated by Software
Q1629-16MSD	VX045463.D	1,2,3-Trichloropropane	JOHN	3/28/2025 9:49:30 AM	MMDadoda	3/28/2025 3:29:34 PM	Peak Integrated by Software
Q1629-04MS	VX045467.D	1,2,3-Trichloropropane	JOHN	3/28/2025 9:49:35 AM	MMDadoda	3/28/2025 3:29:36 PM	Peak Integrated by Software
Q1629-05MSD	VX045468.D	1,2,3-Trichloropropane	JOHN	3/28/2025 9:49:40 AM	MMDadoda	3/28/2025 3:29:37 PM	Peak Integrated by Software
VSTDCCC050	VX045470.D	1,2,3-Trichloropropane	JOHN	3/28/2025 9:49:44 AM	MMDadoda	3/28/2025 3:29:39 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045067.D	28 Feb 2025 01:03	JC/MD	Ok
2	VSTDICC001	VX045068.D	28 Feb 2025 01:27	JC/MD	Ok,M
3	VSTDICC005	VX045069.D	28 Feb 2025 02:13	JC/MD	Ok,M
4	VSTDICC020	VX045070.D	28 Feb 2025 02:37	JC/MD	Ok,M
5	VSTDICCC050	VX045071.D	28 Feb 2025 03:00	JC/MD	Ok,M
6	VSTDICC100	VX045072.D	28 Feb 2025 03:23	JC/MD	Ok,M
7	VSTDICC150	VX045073.D	28 Feb 2025 03:47	JC/MD	Ok,M
8	IBLK	VX045074.D	28 Feb 2025 04:10	JC/MD	Ok
9	VSTDICV050	VX045075.D	28 Feb 2025 04:33	JC/MD	Ok,M
10	BFB	VX045076.D	28 Feb 2025 10:03	JC/MD	Ok
11	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	JC/MD	Ok,M
12	VX0228MBL01	VX045078.D	28 Feb 2025 11:00	JC/MD	Ok
13	VX0228WBL01	VX045079.D	28 Feb 2025 11:23	JC/MD	Ok
14	VX0228WBS01	VX045080.D	28 Feb 2025 11:46	JC/MD	Ok,M
15	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13	JC/MD	Ok,M
16	Q1401-03	VX045082.D	28 Feb 2025 12:37	JC/MD	Ok
17	Q1401-06	VX045083.D	28 Feb 2025 13:00	JC/MD	Ok
18	Q1423-01	VX045084.D	28 Feb 2025 13:23	JC/MD	Ok
19	Q1423-03	VX045085.D	28 Feb 2025 13:47	JC/MD	Ok
20	Q1403-01	VX045086.D	28 Feb 2025 14:10	JC/MD	Ok
21	Q1403-02	VX045087.D	28 Feb 2025 14:33	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1435-01	VX045088.D	28 Feb 2025 14:57	JC/MD	Ok
23	Q1403-04	VX045089.D	28 Feb 2025 15:20	JC/MD	Ok
24	Q1462-02	VX045090.D	28 Feb 2025 15:44	JC/MD	Ok
25	Q1469-01	VX045091.D	28 Feb 2025 16:07	JC/MD	Ok
26	Q1469-02	VX045092.D	28 Feb 2025 16:31	JC/MD	Ok
27	Q1469-03	VX045093.D	28 Feb 2025 16:54	JC/MD	Ok
28	Q1469-04	VX045094.D	28 Feb 2025 17:17	JC/MD	Ok
29	Q1403-03	VX045095.D	28 Feb 2025 17:41	JC/MD	Ok
30	Q1462-01	VX045096.D	28 Feb 2025 18:04	JC/MD	Ok,M
31	IBLK	VX045097.D	28 Feb 2025 18:27	JC/MD	Ok
32	VSTDCCC050	VX045098.D	28 Feb 2025 18:50	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032525

Review By	John Carlone	Review On	3/26/2025 10:08:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/26/2025 1:11:57 PM		
SubDirectory	VX032525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133484
Initial Calibration Stds	
CCC	VP133485,VP133486
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045430.D	25 Mar 2025 09:37	JC/MD	Ok
2	VSTDCCC050	VX045431.D	25 Mar 2025 11:31	JC/MD	Ok,M
3	VX0325MBL01	VX045432.D	25 Mar 2025 11:59	JC/MD	Ok
4	VX0325WBL01	VX045433.D	25 Mar 2025 12:22	JC/MD	Ok
5	VX0325WBS01	VX045434.D	25 Mar 2025 12:46	JC/MD	Not Ok
6	Q1608-10DL	VX045435.D	25 Mar 2025 13:12	JC/MD	Ok
7	VX0325WBS02	VX045436.D	25 Mar 2025 13:35	JC/MD	Ok,M
8	Q1608-17DL	VX045437.D	25 Mar 2025 14:03	JC/MD	Ok
9	Q1608-19DL	VX045438.D	25 Mar 2025 14:26	JC/MD	Ok
10	Q1608-21DL	VX045439.D	25 Mar 2025 14:50	JC/MD	Ok
11	Q1608-18DL	VX045440.D	25 Mar 2025 15:13	JC/MD	Ok
12	Q1608-14RE	VX045441.D	25 Mar 2025 15:36	JC/MD	Confirms
13	Q1608-16DL	VX045442.D	25 Mar 2025 15:59	JC/MD	Ok
14	Q1629-12	VX045443.D	25 Mar 2025 16:22	JC/MD	Ok
15	Q1629-11	VX045444.D	25 Mar 2025 16:46	JC/MD	Ok
16	Q1629-01	VX045445.D	25 Mar 2025 17:09	JC/MD	Ok
17	Q1629-02	VX045446.D	25 Mar 2025 17:32	JC/MD	Ok
18	Q1629-07	VX045447.D	25 Mar 2025 17:55	JC/MD	Ok
19	Q1629-08	VX045448.D	25 Mar 2025 18:18	JC/MD	Ok
20	Q1629-09	VX045449.D	25 Mar 2025 18:41	JC/MD	Ok
21	Q1629-10	VX045450.D	25 Mar 2025 19:05	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032525

Review By	John Carlone	Review On	3/26/2025 10:08:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/26/2025 1:11:57 PM		
SubDirectory	VX032525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133484
Initial Calibration Stds	
CCC	VP133485,VP133486
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VX0325WBSD02	VX045451.D	25 Mar 2025 19:28	JC/MD	Not Ok
23	Q1608-11	VX045452.D	25 Mar 2025 19:51	JC/MD	Ok
24	Q1608-12MS	VX045453.D	25 Mar 2025 20:14	JC/MD	Ok,M
25	Q1608-13MSD	VX045454.D	25 Mar 2025 20:37	JC/MD	Ok,M
26	VSTDCCC050	VX045455.D	25 Mar 2025 21:00	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032625

Review By	John Carlone	Review On	3/28/2025 9:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/28/2025 3:29:43 PM		
SubDirectory	VX032625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133490
Initial Calibration Stds	
CCC	VP133491,VP133492
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045456.D	26 Mar 2025 09:33	JC/MD	Ok
2	VSTDCCC050	VX045457.D	26 Mar 2025 10:03	JC/MD	Ok,M
3	VX0326MBL01	VX045458.D	26 Mar 2025 10:31	JC/MD	Ok
4	VX0326WBL01	VX045459.D	26 Mar 2025 10:54	JC/MD	Ok
5	VX0326WBS01	VX045460.D	26 Mar 2025 11:18	JC/MD	Ok,M
6	Q1629-14	VX045461.D	26 Mar 2025 11:46	JC/MD	Ok
7	Q1629-15MS	VX045462.D	26 Mar 2025 12:09	JC/MD	Ok,M
8	Q1629-16MSD	VX045463.D	26 Mar 2025 12:33	JC/MD	Ok,M
9	IBLK	VX045464.D	26 Mar 2025 12:56	JC/MD	Ok
10	IBLK	VX045465.D	26 Mar 2025 13:19	JC/MD	Ok
11	Q1629-03	VX045466.D	26 Mar 2025 13:43	JC/MD	Ok
12	Q1629-04MS	VX045467.D	26 Mar 2025 14:06	JC/MD	Ok,M
13	Q1629-05MSD	VX045468.D	26 Mar 2025 14:29	JC/MD	Ok,M
14	IBLK	VX045469.D	26 Mar 2025 14:53	JC/MD	Ok
15	VSTDCCC050	VX045470.D	26 Mar 2025 15:35	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045067.D	28 Feb 2025 01:03		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045068.D	28 Feb 2025 01:27		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045069.D	28 Feb 2025 02:13		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045070.D	28 Feb 2025 02:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045071.D	28 Feb 2025 03:00		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045072.D	28 Feb 2025 03:23		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045073.D	28 Feb 2025 03:47		JC/MD	Ok,M
8	IBLK	IBLK	VX045074.D	28 Feb 2025 04:10		JC/MD	Ok
9	VSTDICV050	ICVVX022825	VX045075.D	28 Feb 2025 04:33		JC/MD	Ok,M
10	BFB	BFB	VX045076.D	28 Feb 2025 10:03		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	V12668	JC/MD	Ok,M
12	VX0228MBL01	VX0228MBL01	VX045078.D	28 Feb 2025 11:00		JC/MD	Ok
13	VX0228WBL01	VX0228WBL01	VX045079.D	28 Feb 2025 11:23		JC/MD	Ok
14	VX0228WBS01	VX0228WBS01	VX045080.D	28 Feb 2025 11:46		JC/MD	Ok,M
15	VX0228WBSD01	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13		JC/MD	Ok,M
16	Q1401-03	BP-VPB-192-GW-840-8	VX045082.D	28 Feb 2025 12:37	vial B pH<2	JC/MD	Ok
17	Q1401-06	BP-VPB-192-GW-900-9	VX045083.D	28 Feb 2025 13:00	vial B pH<2	JC/MD	Ok
18	Q1423-01	BP-VPB-192-TB-20250	VX045084.D	28 Feb 2025 13:23	vial B pH<2 TB	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1423-03	BP-VPB-192-EB-20250	VX045085.D	28 Feb 2025 13:47	vial B pH<2 EB	JC/MD	Ok
20	Q1403-01	Storage-Blank-SOIL-RE	VX045086.D	28 Feb 2025 14:10	vial B pH<2	JC/MD	Ok
21	Q1403-02	Storage-Blank-WATER-	VX045087.D	28 Feb 2025 14:33	vial B pH<2	JC/MD	Ok
22	Q1435-01	286107	VX045088.D	28 Feb 2025 14:57	vial A pH<2	JC/MD	Ok
23	Q1403-04	Storage-Blank-SAMPLE	VX045089.D	28 Feb 2025 15:20	vial B pH<2	JC/MD	Ok
24	Q1462-02	FB	VX045090.D	28 Feb 2025 15:44	vial A pH<2 FB	JC/MD	Ok
25	Q1469-01	Storage-Blank-SOIL-RE	VX045091.D	28 Feb 2025 16:07	vial A pH<2	JC/MD	Ok
26	Q1469-02	Storage-Blank-WATER-	VX045092.D	28 Feb 2025 16:31	vial A pH<2	JC/MD	Ok
27	Q1469-03	Storage-Blank-WATER-	VX045093.D	28 Feb 2025 16:54	vial A pH<2	JC/MD	Ok
28	Q1469-04	Storage-Blank-SAMPLE	VX045094.D	28 Feb 2025 17:17	vial A pH<2	JC/MD	Ok
29	Q1403-03	Storage-Blank-WATER-	VX045095.D	28 Feb 2025 17:41	vial B pH<2	JC/MD	Ok
30	Q1462-01	MW2	VX045096.D	28 Feb 2025 18:04	vial A pH<2	JC/MD	Ok,M
31	IBLK	IBLK	VX045097.D	28 Feb 2025 18:27		JC/MD	Ok
32	VSTDCCC050	VSTDCCC050EC	VX045098.D	28 Feb 2025 18:50		JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032525

Review By	John Carlone	Review On	3/26/2025 10:08:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/26/2025 1:11:57 PM		
SubDirectory	VX032525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133484
Initial Calibration Stds	
CCC	VP133485,VP133486
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045430.D	25 Mar 2025 09:37		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045431.D	25 Mar 2025 11:31	CCAL failed high for comp. #2	JC/MD	Ok,M
3	VX0325MBL01	VX0325MBL01	VX045432.D	25 Mar 2025 11:59		JC/MD	Ok
4	VX0325WBL01	VX0325WBL01	VX045433.D	25 Mar 2025 12:22		JC/MD	Ok
5	VX0325WBS01	VX0325WBS01	VX045434.D	25 Mar 2025 12:46	Surrogate Fail	JC/MD	Not Ok
6	Q1608-10DL	DUP08-20250318DL	VX045435.D	25 Mar 2025 13:12	vial B pH<2	JC/MD	Ok
7	VX0325WBS02	VX0325WBS02	VX045436.D	25 Mar 2025 13:35		JC/MD	Ok,M
8	Q1608-17DL	RE132D5-20250318DL	VX045437.D	25 Mar 2025 14:03	vial B pH<2	JC/MD	Ok
9	Q1608-19DL	RE132D7-20250318DL	VX045438.D	25 Mar 2025 14:26	vial B pH<2	JC/MD	Ok
10	Q1608-21DL	TT101D2-20250319DL	VX045439.D	25 Mar 2025 14:50	vial B pH<2	JC/MD	Ok
11	Q1608-18DL	RE132D6-20250318DL	VX045440.D	25 Mar 2025 15:13	vial B pH<2	JC/MD	Ok
12	Q1608-14RE	RE132D2-20250318RE	VX045441.D	25 Mar 2025 15:36	vial B pH<2,CCAL Fail for Comp. #2	JC/MD	Confirms
13	Q1608-16DL	RE132D4-20250318DL	VX045442.D	25 Mar 2025 15:59	vial B pH<2	JC/MD	Ok
14	Q1629-12	TB	VX045443.D	25 Mar 2025 16:22	vial A pH<2 TB	JC/MD	Ok
15	Q1629-11	FB03-20250321	VX045444.D	25 Mar 2025 16:46	vial A pH<2 FB	JC/MD	Ok
16	Q1629-01	TT174I1-20250320	VX045445.D	25 Mar 2025 17:09	vial A pH<2	JC/MD	Ok
17	Q1629-02	TT162S1-20250320	VX045446.D	25 Mar 2025 17:32	vial A pH<2	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032525

Review By	John Carlone	Review On	3/26/2025 10:08:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/26/2025 1:11:57 PM		
SubDirectory	VX032525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133484
Initial Calibration Stds	
CCC	VP133485,VP133486
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1629-07	RW09-MW01D1-20250	VX045447.D	25 Mar 2025 17:55	vial A pH<2	JC/MD	Ok
19	Q1629-08	RW09-MW01D2-20250	VX045448.D	25 Mar 2025 18:18	vial A pH<2	JC/MD	Ok
20	Q1629-09	RW09-MW01D3-20250	VX045449.D	25 Mar 2025 18:41	vial A pH<2	JC/MD	Ok
21	Q1629-10	TT150S1-20250320	VX045450.D	25 Mar 2025 19:05	vial A pH<2	JC/MD	Ok
22	VX0325WBSD02	VX0325WBSD02	VX045451.D	25 Mar 2025 19:28	Surrogate Fail	JC/MD	Not Ok
23	Q1608-11	RE132D1-20250318	VX045452.D	25 Mar 2025 19:51	vial A pH<2	JC/MD	Ok
24	Q1608-12MS	RE132D1-20250318MS	VX045453.D	25 Mar 2025 20:14	vial A pH<2	JC/MD	Ok,M
25	Q1608-13MSD	RE132D1-20250318MS	VX045454.D	25 Mar 2025 20:37	vial A pH<2	JC/MD	Ok,M
26	VSTDCCC050	VSTDCCC050EC	VX045455.D	25 Mar 2025 21:00		JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX032625

Review By	John Carlone	Review On	3/28/2025 9:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/28/2025 3:29:43 PM		
SubDirectory	VX032625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133490
Initial Calibration Stds	
CCC	VP133491,VP133492
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045456.D	26 Mar 2025 09:33		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045457.D	26 Mar 2025 10:03	pH#Lot#V12668	JC/MD	Ok,M
3	VX0326MBL01	VX0326MBL01	VX045458.D	26 Mar 2025 10:31		JC/MD	Ok
4	VX0326WBL01	VX0326WBL01	VX045459.D	26 Mar 2025 10:54		JC/MD	Ok
5	VX0326WBS01	VX0326WBS01	VX045460.D	26 Mar 2025 11:18		JC/MD	Ok,M
6	Q1629-14	RW09-MW01S-202503	VX045461.D	26 Mar 2025 11:46	vial A pH<2	JC/MD	Ok
7	Q1629-15MS	RW09-MW01S-202503	VX045462.D	26 Mar 2025 12:09	vial A pH<2	JC/MD	Ok,M
8	Q1629-16MSD	RW09-MW01S-202503	VX045463.D	26 Mar 2025 12:33	vial A pH<2	JC/MD	Ok,M
9	IBLK	IBLK	VX045464.D	26 Mar 2025 12:56		JC/MD	Ok
10	IBLK	IBLK	VX045465.D	26 Mar 2025 13:19		JC/MD	Ok
11	Q1629-03	TT188S1-20250320	VX045466.D	26 Mar 2025 13:43	vial A pH<2	JC/MD	Ok
12	Q1629-04MS	TT188S1-20250320MS	VX045467.D	26 Mar 2025 14:06	vial A pH<2	JC/MD	Ok,M
13	Q1629-05MSD	TT188S1-20250320MS	VX045468.D	26 Mar 2025 14:29	vial A pH<2	JC/MD	Ok,M
14	IBLK	IBLK	VX045469.D	26 Mar 2025 14:53		JC/MD	Ok
15	VSTDCCC050	VSTDCCC050EC	VX045470.D	26 Mar 2025 15:35		JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : Q1629

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX032525,VX032625,

Standard ID :
VP131746,VP131767,VP132035,VP132096,VP133174,VP133178,VP133342,VP133484,VP133485,VP133486,VP133490,VP133491,VP133492,

Chemical ID :
V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14613,V14614,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14744,V14754,V14809,V14814,V14842,V14883,V14896,V14897,V14898,V14899,W3112,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133178	02/27/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14724 + 1.00000ml of V14744 + 1.00000ml of V14754 + 1.00000ml of V14809 + 1.00000ml of V14814 + 1.50000ml of V14722 + 1.50000ml of V14723 + 10.60000ml of V14613 = Final Quantity: 25.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP133484	03/25/2025	03/26/2025	John Carlone	None	None	Mahesh Dadoda 03/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP133485	03/25/2025	03/26/2025	John Carlone	None	None	Mahesh Dadoda 03/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133178 + 0.01250ml of VP133342 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP133486	03/25/2025	03/26/2025	John Carlone	None	None	Mahesh Dadoda 03/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133178 + 0.01250ml of VP133342 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP133490	03/26/2025	03/27/2025	John Carlone	None	None	Mahesh Dadoda 03/28/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP133491	03/26/2025	03/27/2025	John Carlone	None	None	Mahesh Dadoda 03/28/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133178 + 0.01250ml of VP133342 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP133492	03/26/2025	03/27/2025	John Carlone	None	None	Mahesh Dadoda 03/28/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133178 + 0.01250ml of VP133342 = Final Quantity: 40.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14809

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 5E-05 Balance Uncertainty 0.021 Flask Uncertainty

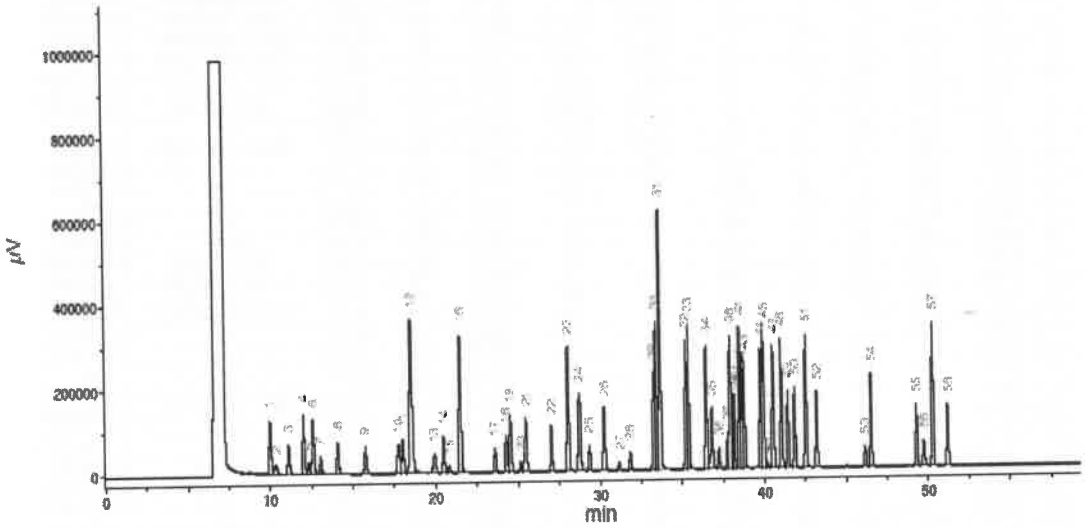
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethene	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 5E-05 Balance Uncertainty 0.021 Flask Uncertainty

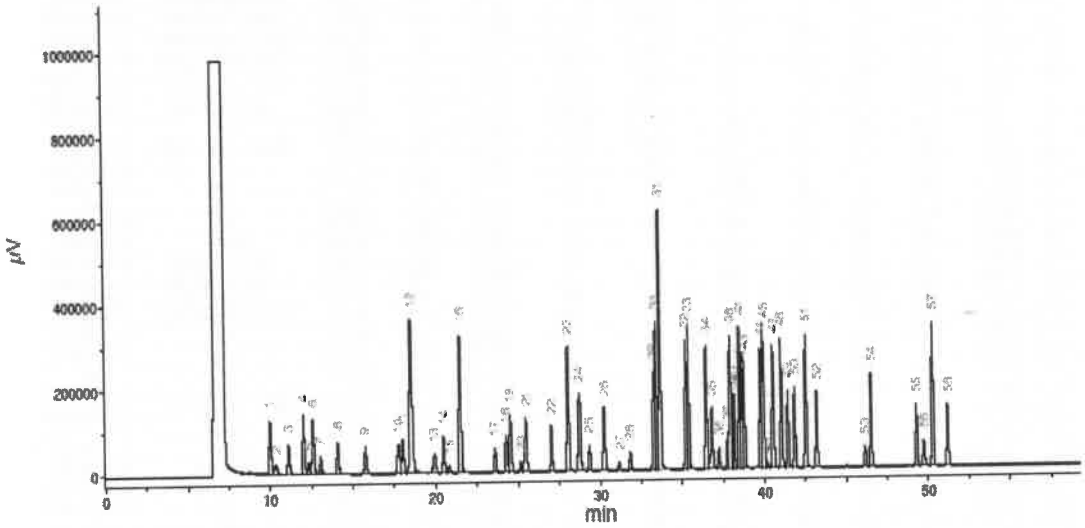
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Exp 03/18/24

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5 vial

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

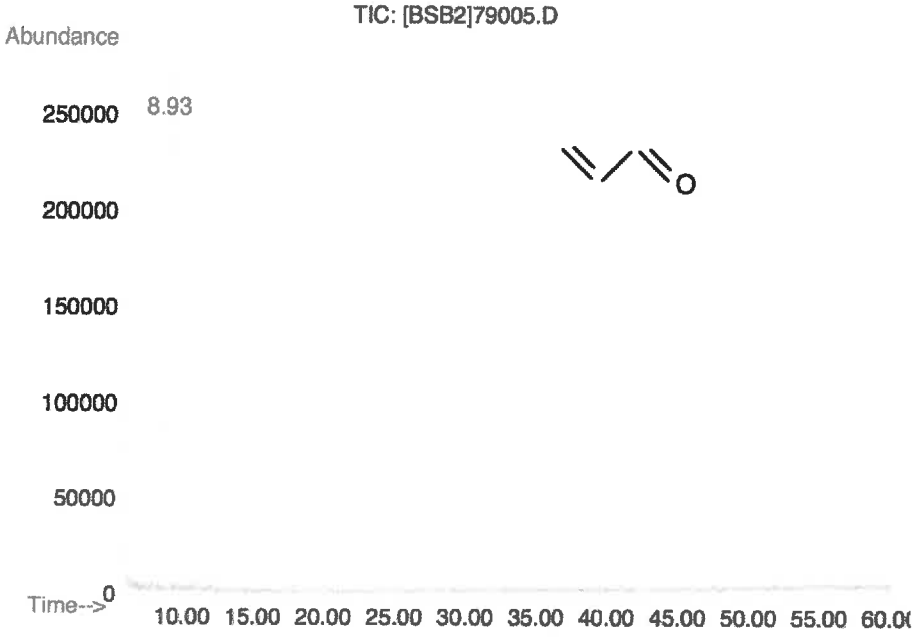
Weight(s) shown below were combined and diluted to (mL): 10.0

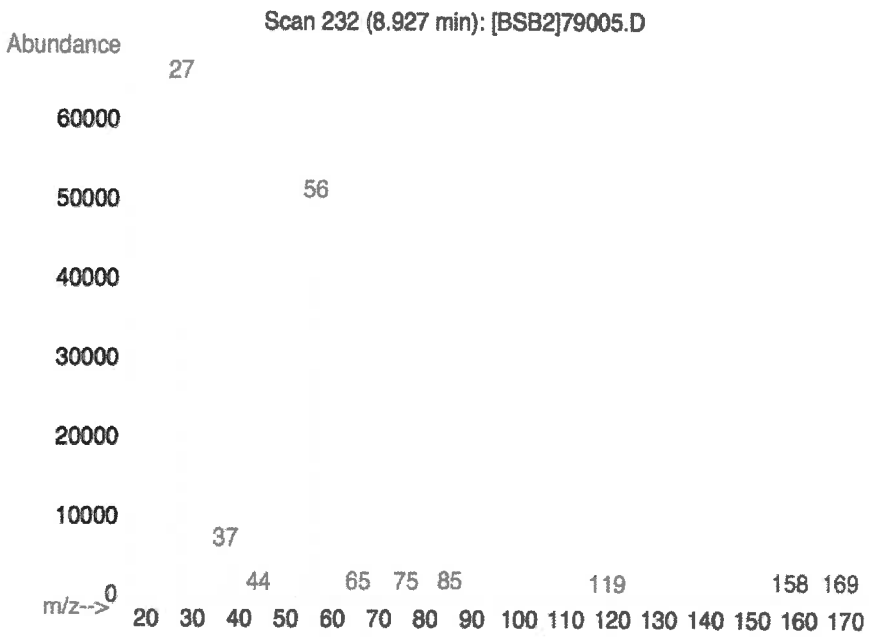
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Exp 03/18/24

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water Lot# 072324Q

5 vials

V14895 to V14899

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

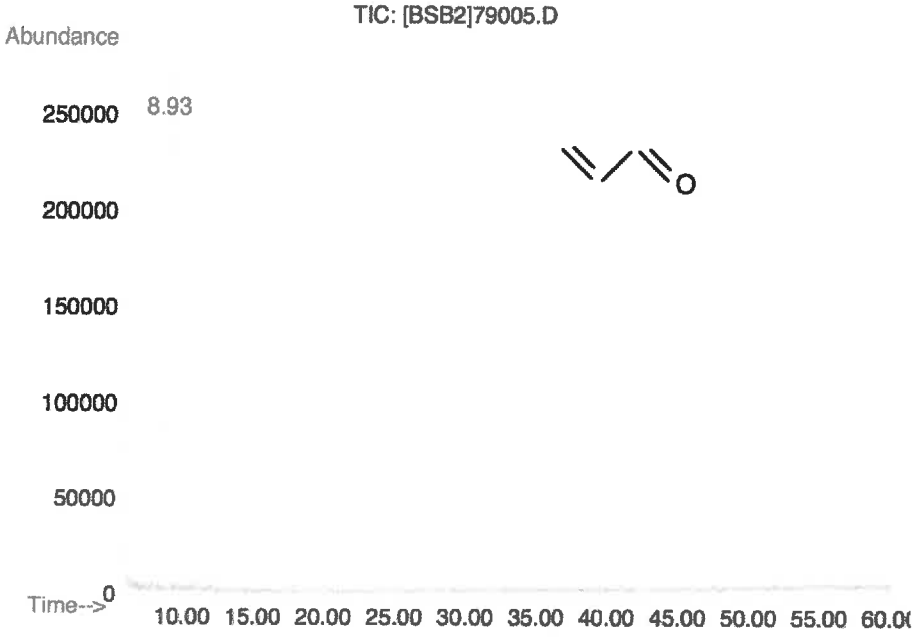
Weight(s) shown below were combined and diluted to (mL): 10.0

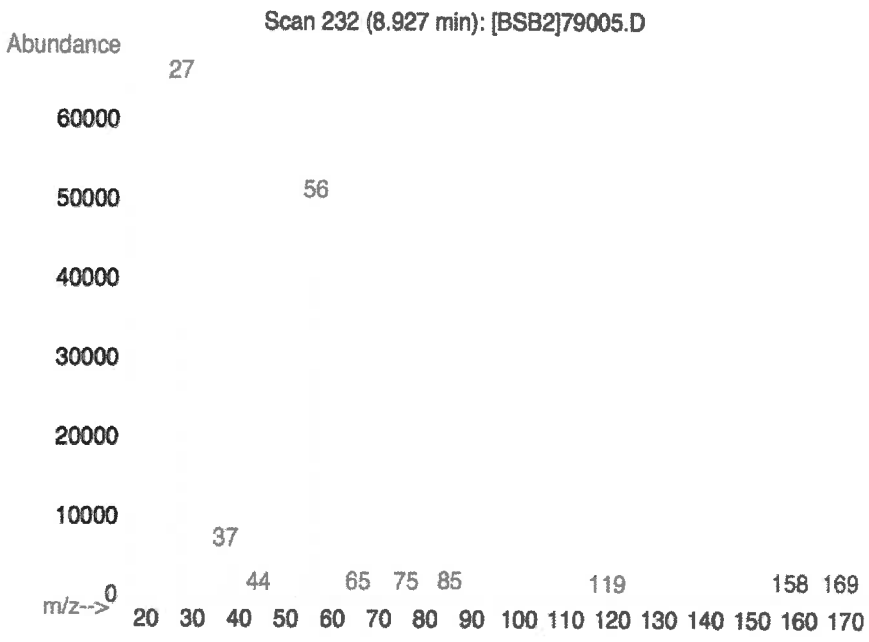
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Exp 03/18/24

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water Lot# 072324Q

5 vial

V14895 to V14899

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

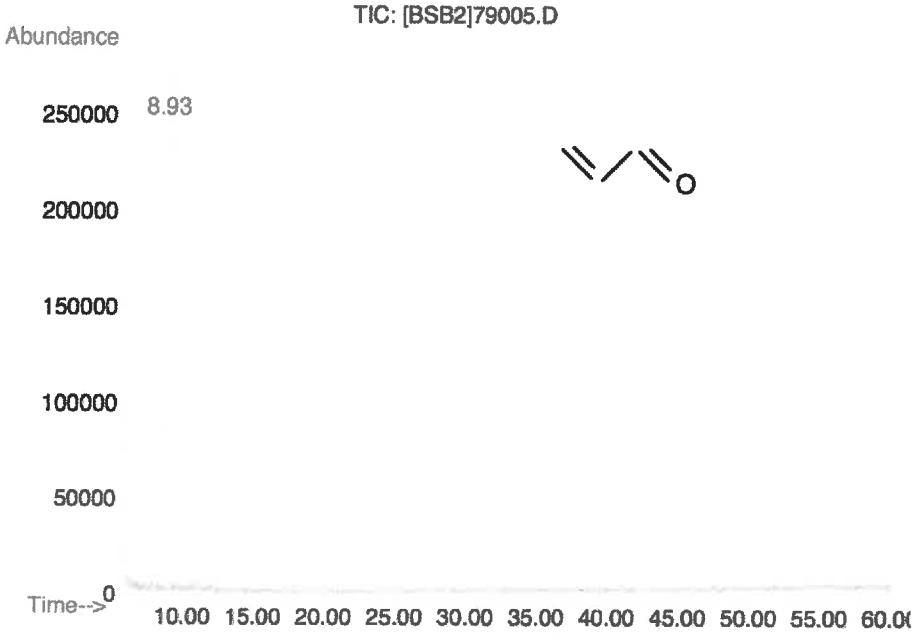
Weight(s) shown below were combined and diluted to (mL): 10.0

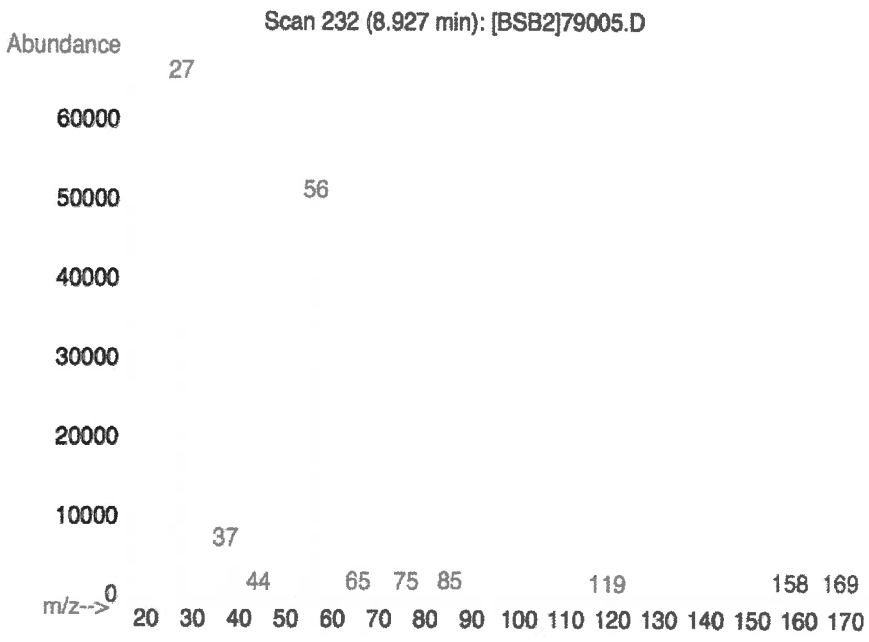
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA
Solubility in Water	Completely miscible		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Exp 03/18/24

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water Lot# 072324Q

5 vials
V14895 to V14899

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

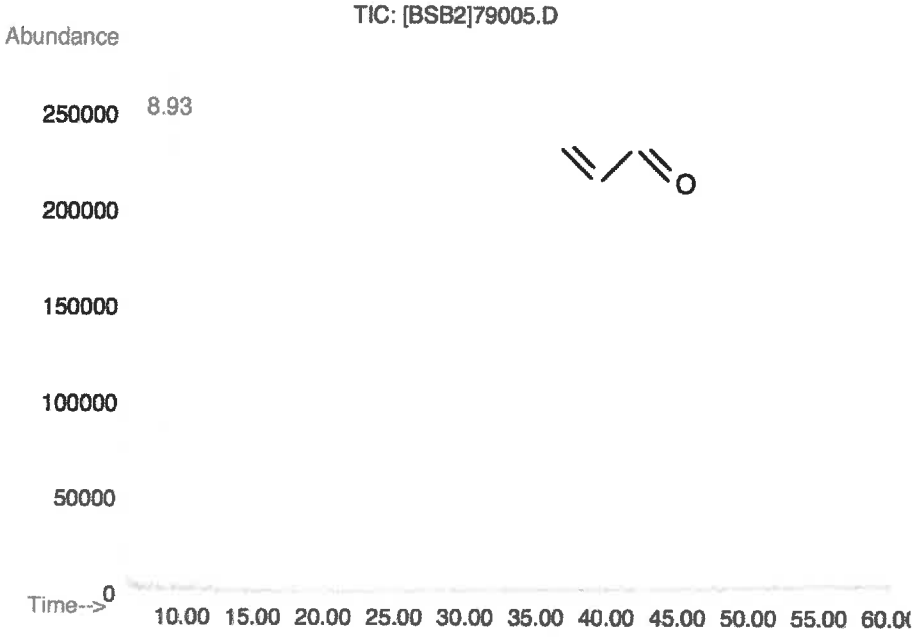
Weight(s) shown below were combined and diluted to (mL): 10.0

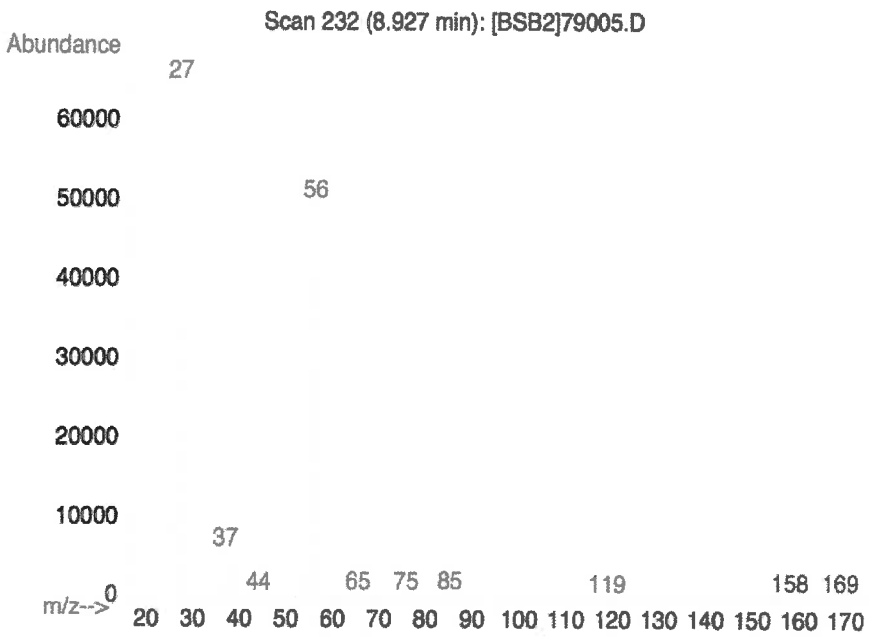
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

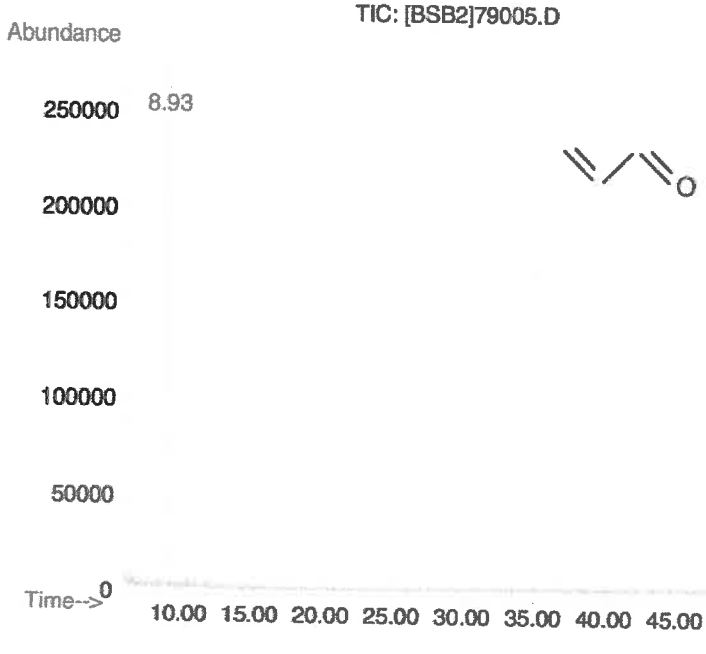
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

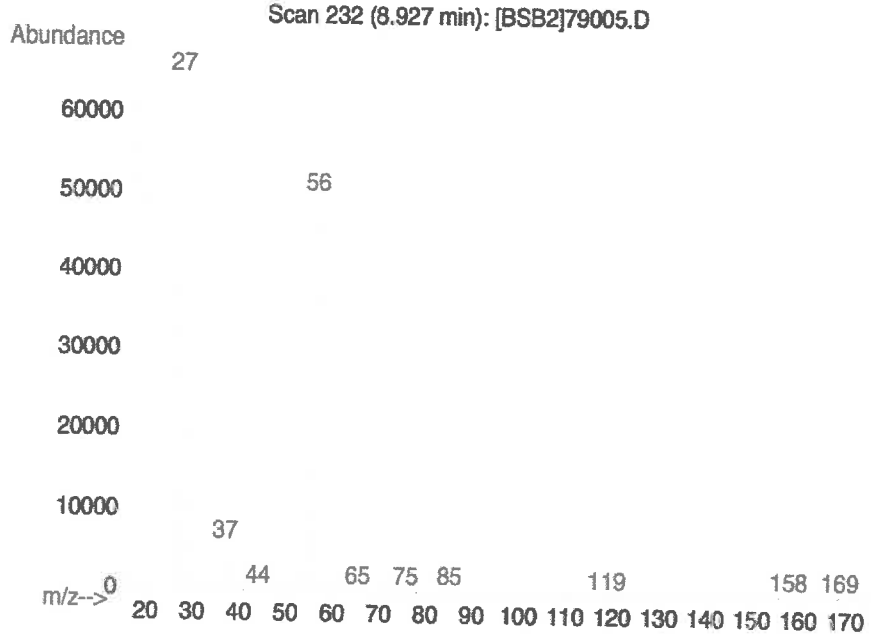
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

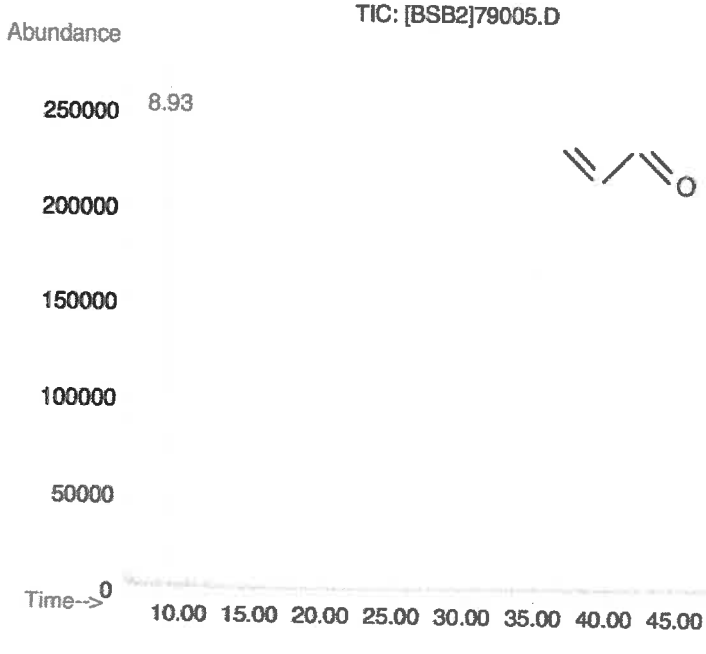
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

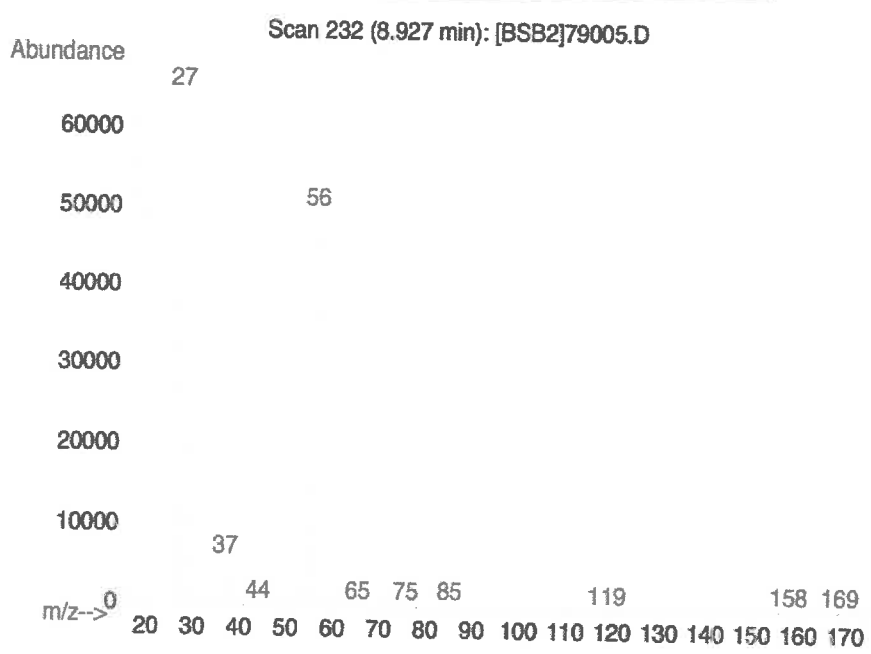
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

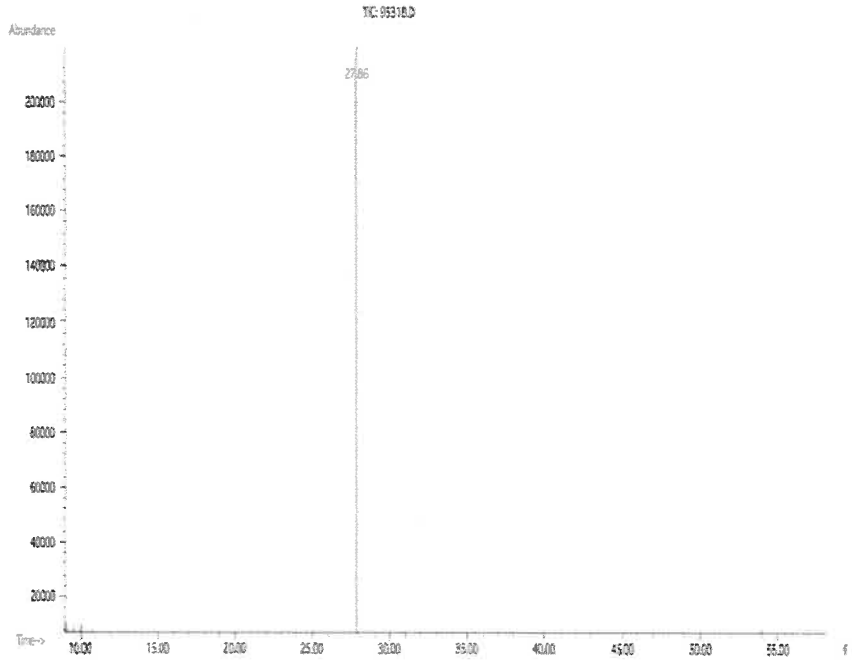
Solvent(s): Methanol **Lot#** EJ143-US

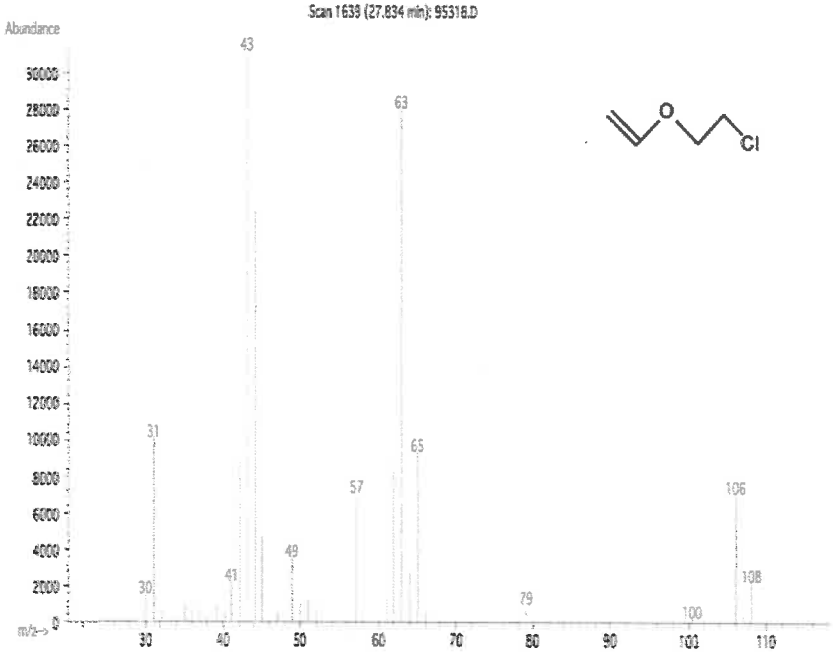
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

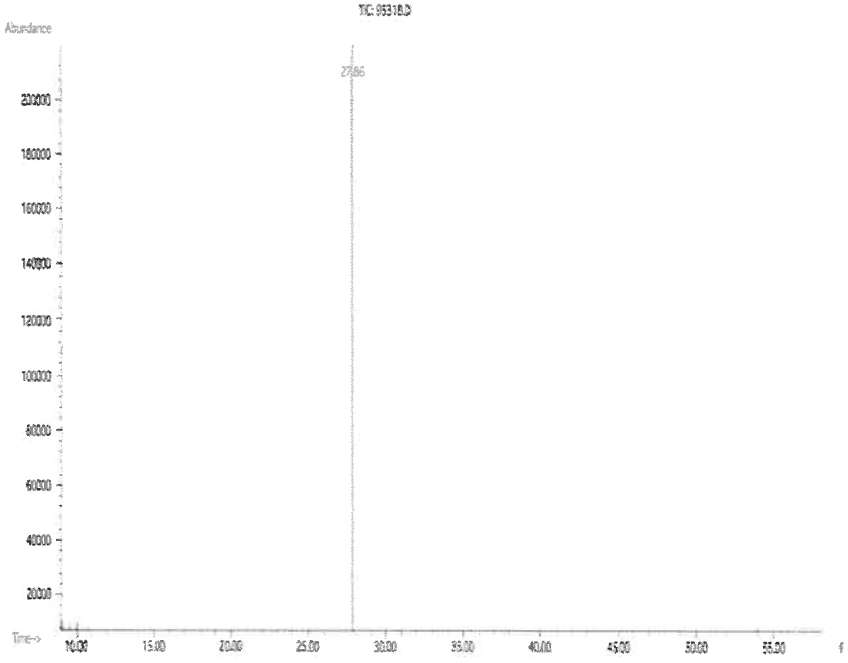
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

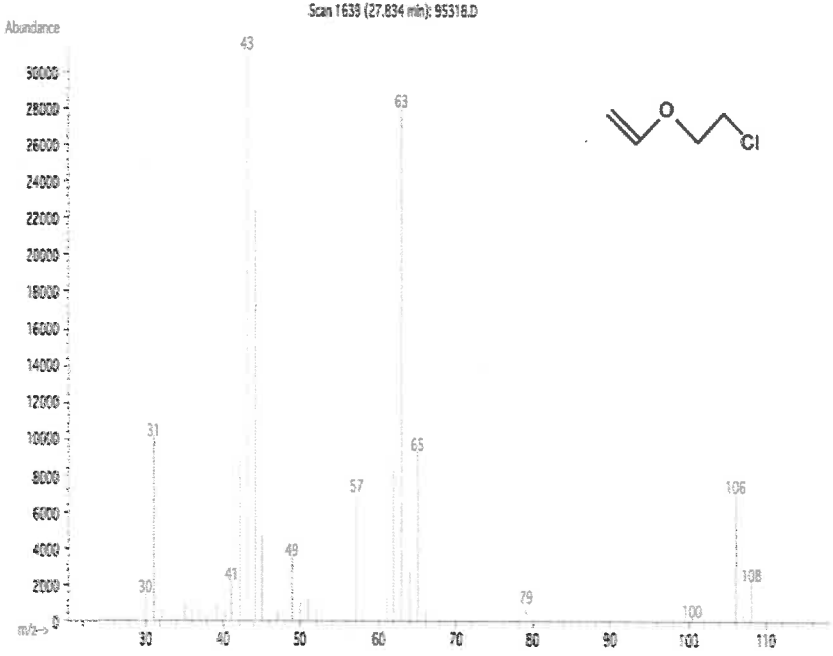
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By: Prashant Chauhan	DATE	
Pedro Rentas	120524	
Reviewed By: Pedro L. Rentas	DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

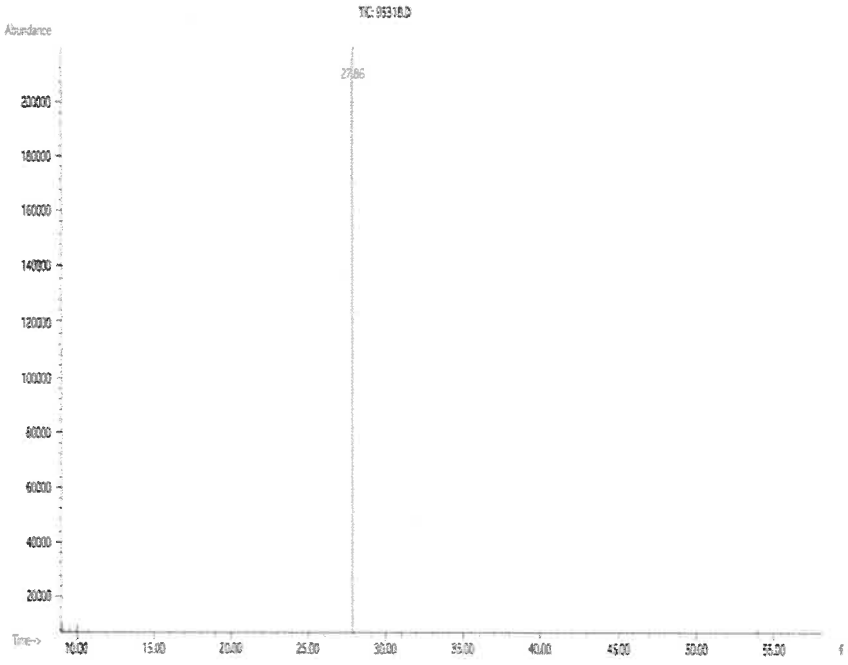
Solvent(s): Methanol **Lot#** EJ143-US

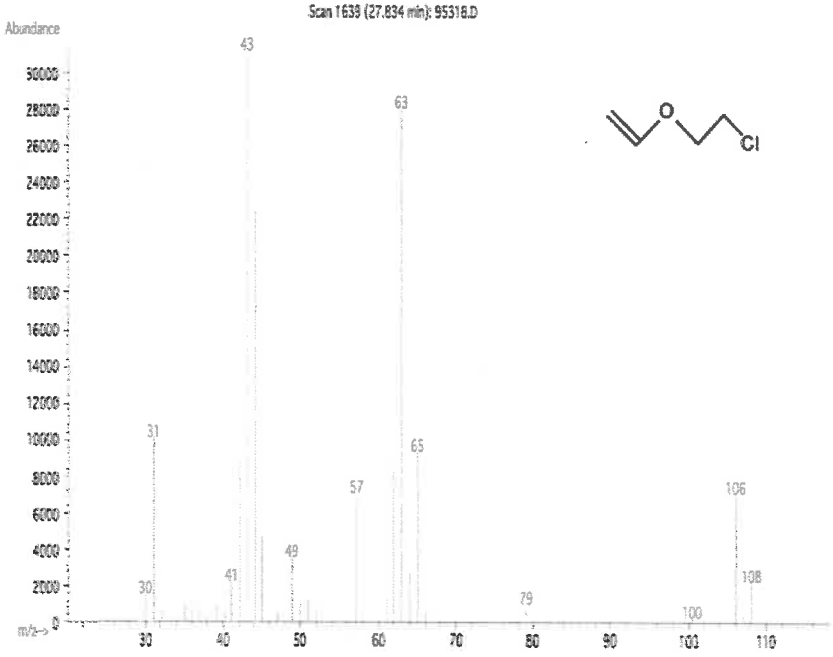
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

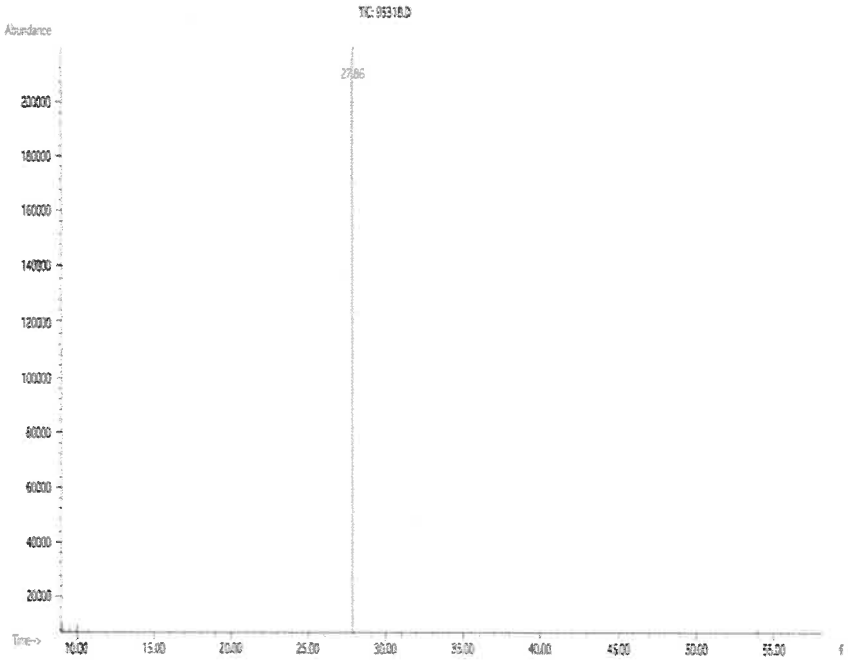
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

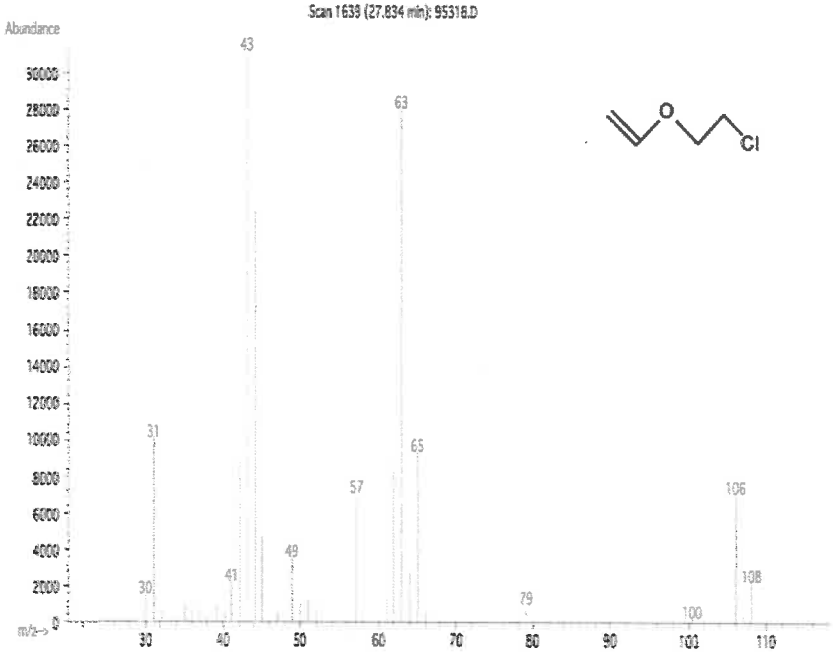
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

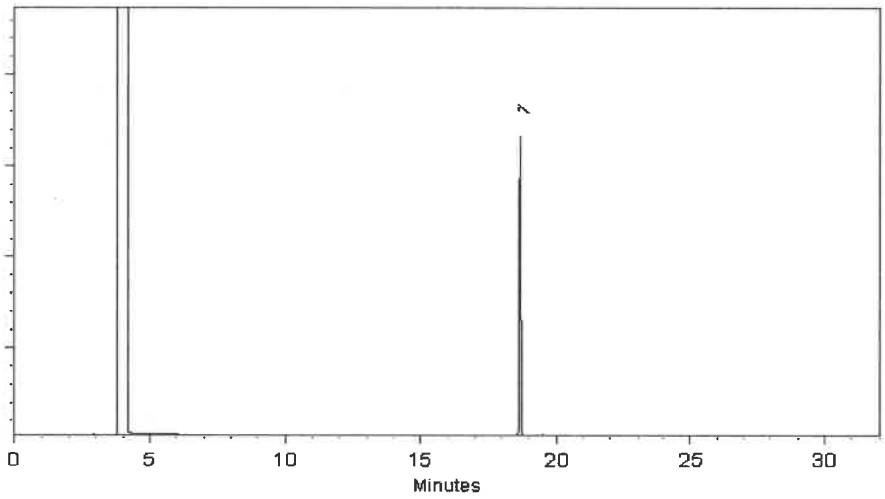
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

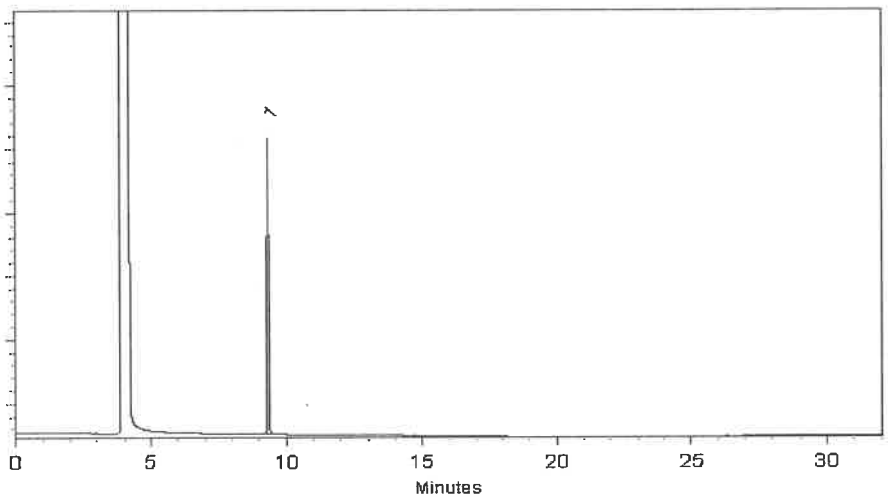
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

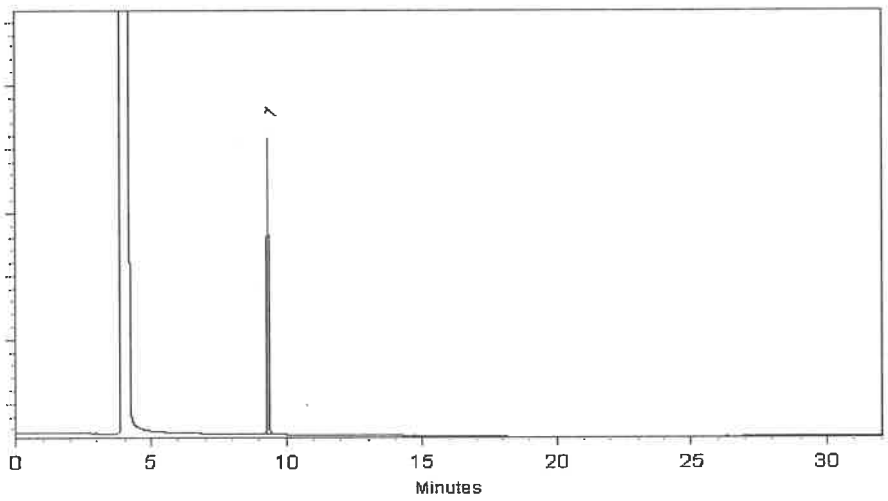
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

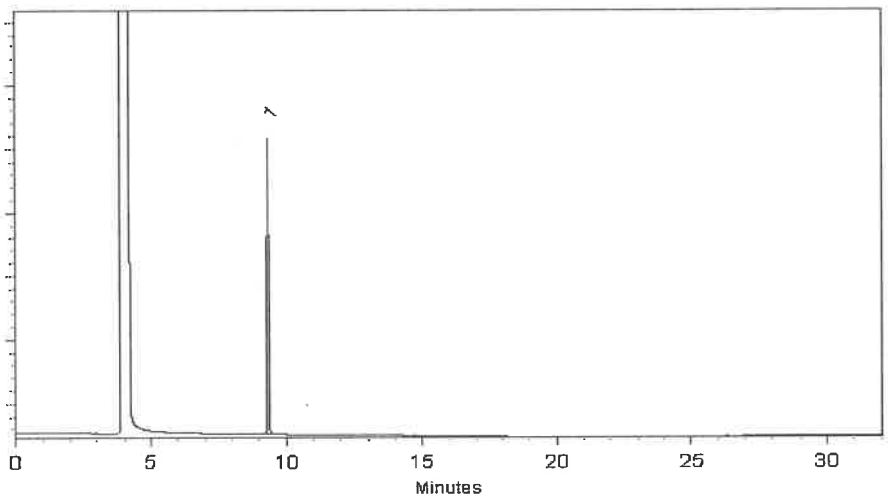
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

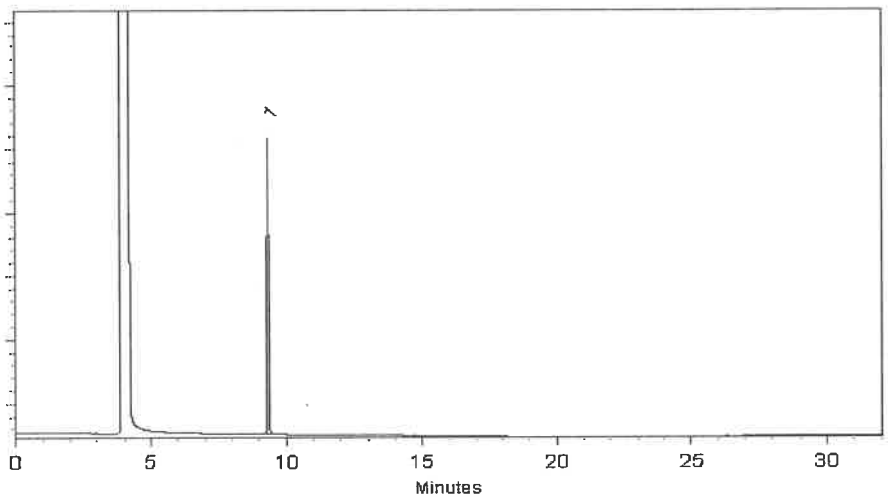
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

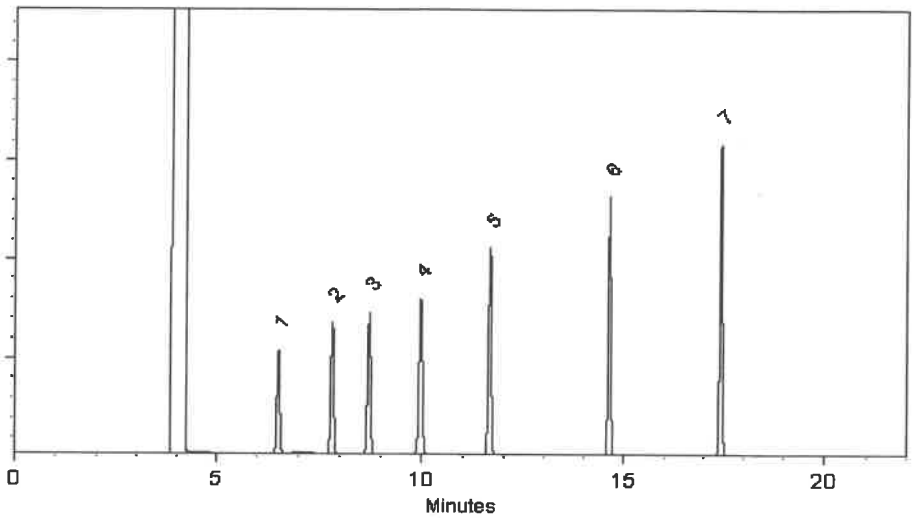
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

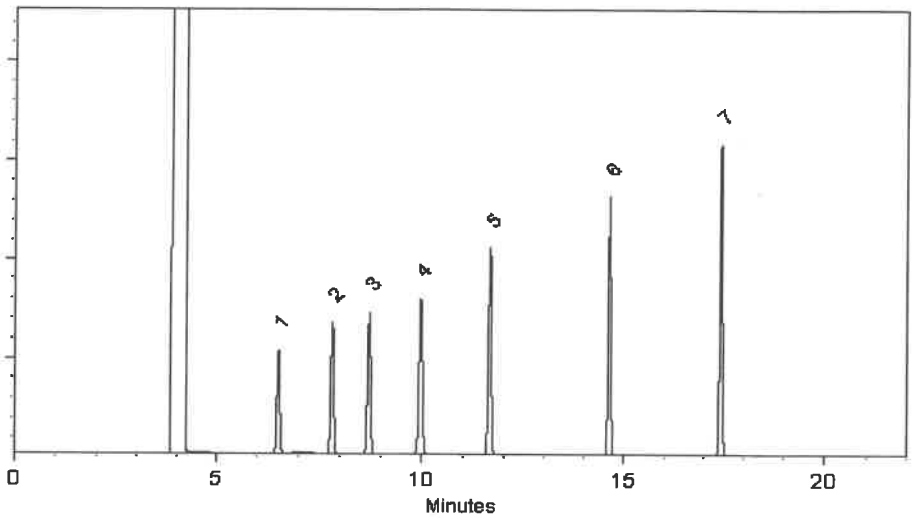
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

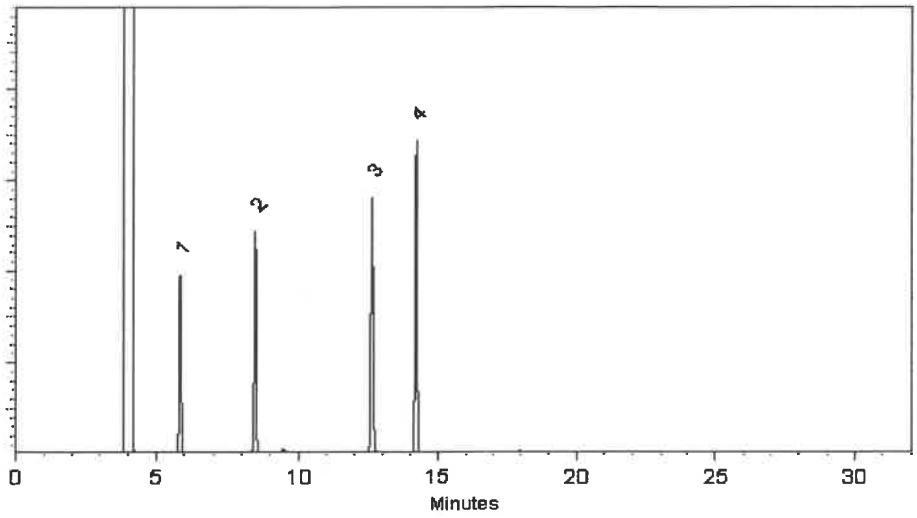
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

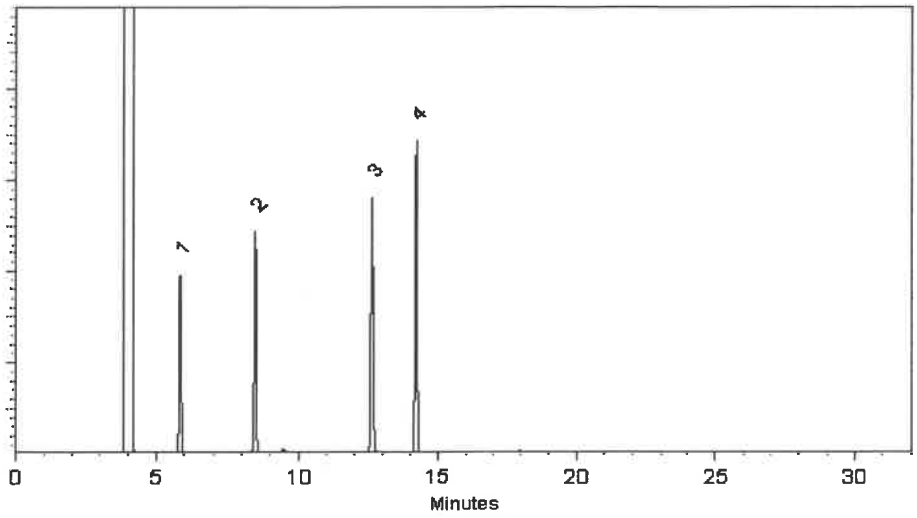
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

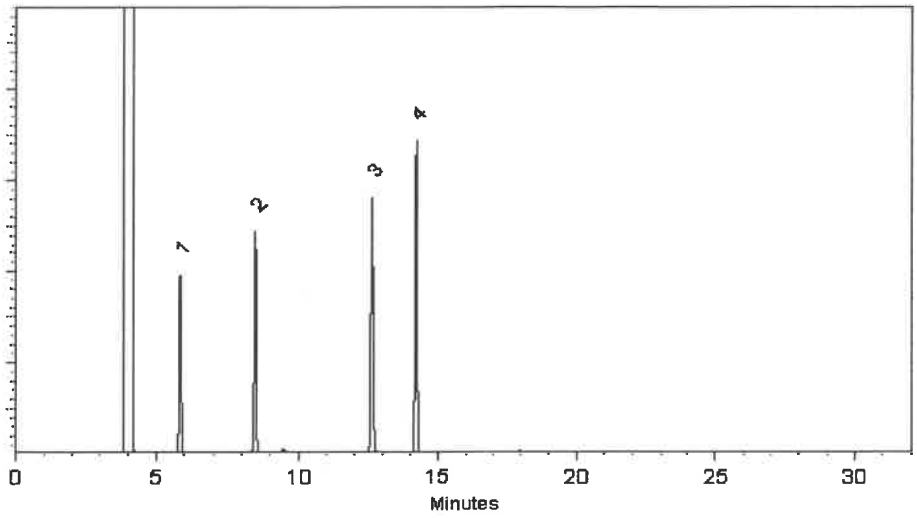
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

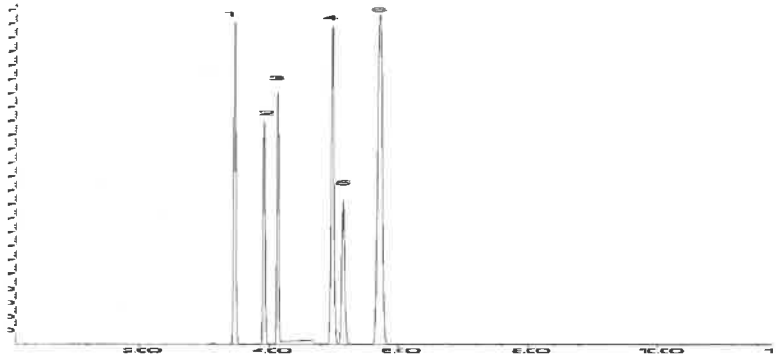
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

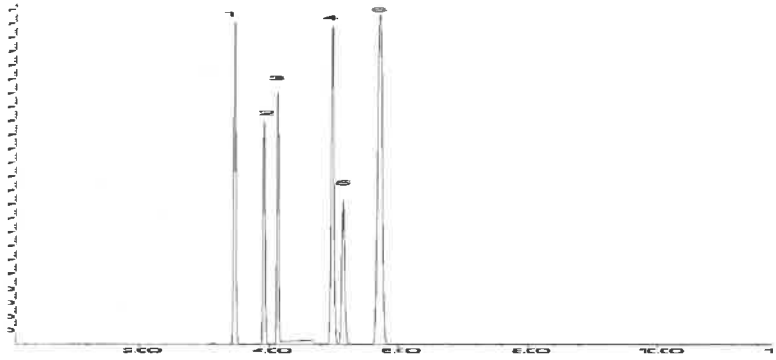
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

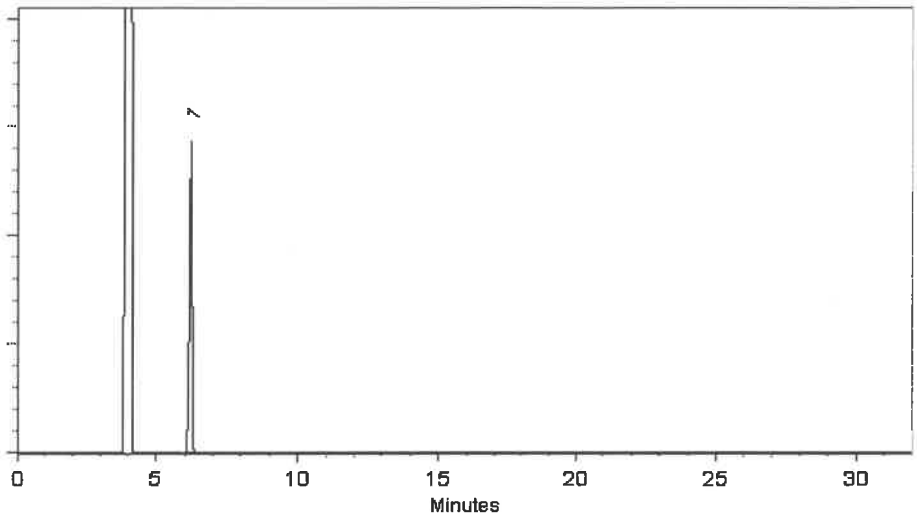
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

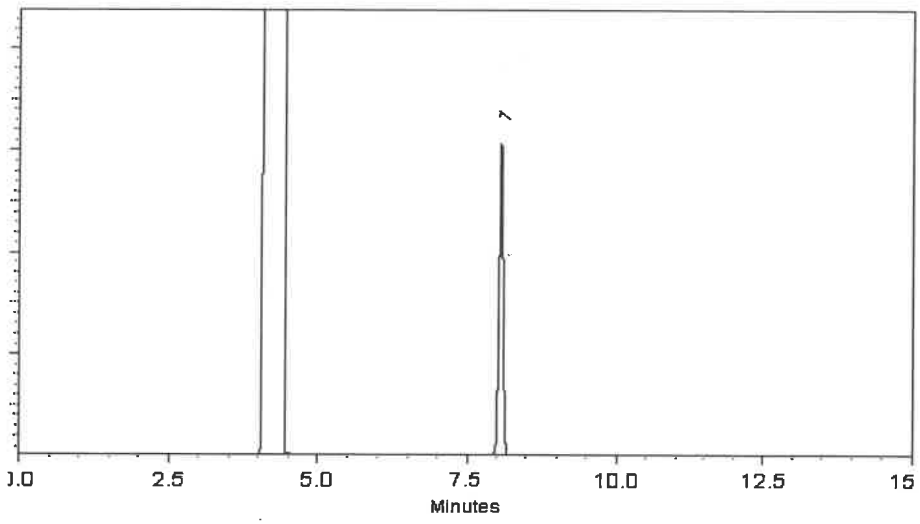
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zoey Rec 01/08/21

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

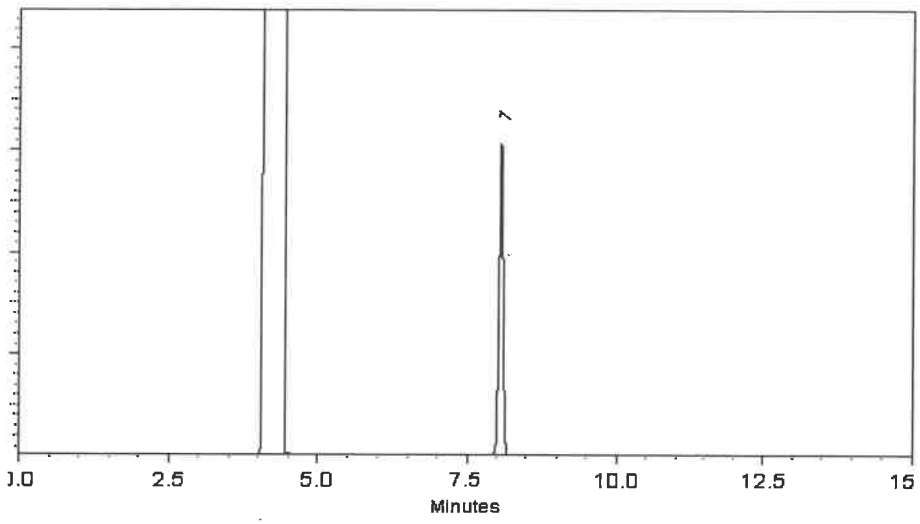
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

V14883
V14884

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1629
COC Number 2045896

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: AECOM
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PL
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☒ EDD FORMAT NYSDEC EQUIS

ANALYSIS

1: VOCs 8260 2: 1,4 DIOXANE SIM 8270 3. 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A/E 1	PRESERVATIVES E 2	3	4	5	6	7	8	9	COMMENTS
1.	TTTH1-20250320	GW		X	3-20-25	0920	3	2	1								
2.	TT162S1-20250320	GW		X		1135	3	2	1								
3.	TT188S1-20250320	GW		X		1120	9	6	3								MS/MSD
4.	RW09-MW01S-20250320	GW		X		1120	9	6	3								
5.	RW09-MW01D1-20250320	GW		X		1135	3	2	1								
6.	RW09-MW01D2-20250320	GW		X		1005	3	2	1								
7.	RW09-MW01D3-20250320	GW		X		1003	3	2	1								
8.	TT150S1-20250320	GW		X		1315	3	2	1								
9.	FB03-20250321	DW		X	3-21-25		3	2	1								
10.	TB	DW		X	3-14-25	—	2	2									

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3-21-25 1310	1. 3-21-25
2.		2.
3.	3-21-25 1715	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

Copyright © 2024
WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

From: Wright, Stephen <Stephen.E.Wright@aecom.com>
Sent: Monday, March 24, 2025 1:31 PM
To: yazmeen@chemtech.net
Cc: Vivaudou, Eleanor
Subject: Re: Week 3 Bethpage, NY GW Sampling

Yes please...

From: Yazmeen Gomez <yazmeen@chemtech.net>
Sent: Monday, March 24, 2025 11:02 AM
To: Wright, Stephen <Stephen.E.Wright@aecom.com>
Cc: Vivaudou, Eleanor <Eleanor.Vivaudou@aecom.com>
Subject: RE: Week 3 Bethpage, NY GW Sampling

Good morning Stephen,

I wanted to confirm based off the quantity if you needed MS/MSD for both Sample 03 and 04?

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Yazmeen Gomez <yazmeen@chemtech.net>
Sent: Monday, March 17, 2025 3:02 PM
To: 'Wright, Stephen' <Stephen.E.Wright@aecom.com>
Cc: 'Vivaudou, Eleanor' <Eleanor.Vivaudou@aecom.com>
Subject: RE: Week 3 Bethpage, NY GW Sampling

Hi Stephen,

Bottle order and pick up for Wednesday – and Pick up for Friday are confirmed as requested.

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Wright, Stephen <Stephen.E.Wright@aecom.com>
Sent: Monday, March 17, 2025 2:57 PM
To: yazmeen@chemtech.net
Cc: Vivaudou, Eleanor <Eleanor.Vivaudou@aecom.com>
Subject: Week 3 Bethpage, NY GW Sampling

Hi Yazmeen,

We will need courier pickups at the Bethpage site on Wednesday (3/19) at 2PM and Friday (3/21) at 1 PM. I did a bottle count today and we will need one more case of HCL VOAs and one box of amber liters on Wednesday (as well as labels). Hopefully, all sampling for the event will be completed by Friday's pickup.

Let me know if you have any questions...

Steve

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1629 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 3/21/2025 1:55:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : ~~3/24/2025 4:15:00~~ PM
Purchase Order : 3/21 17:15

Project Mgr : YAZMEEN
Report Type : ~~Results Only~~ NYS Cat B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 3/24/2025 10:50:10 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1629-01	TT174I1-20250320	Water	03/20/2025	09:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-02	TT162S1-20250320	Water	03/20/2025	11:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-03	TT188S1-20250320	Water	03/20/2025	11:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-04	Q1629-03MS	Water	03/20/2025	11:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-05	Q1629-03MSD	Water	03/20/2025	11:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-07	RW09-MW01D1-20250320	Water	03/20/2025	11:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-08	RW09-MW01D2-20250320	Water	03/20/2025	10:05					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-09	RW09-MW01D3-20250320	Water	03/20/2025	10:03					

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1629 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 3/21/2025 1:55:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : ~~3/24/2025 4:15:00~~ PM
Purchase Order : 3/21 17:15

Project Mgr : YAZMEEN
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 3/24/2025 10:50:10 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-10	TT150S1-20250320	Water	03/20/2025	13:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-11	FB03-20250321	Water	03/21/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-12	TB	Water	03/21/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-14	RW09-MW01S-20250320	Water	03/20/2025	11:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-15	Q1629-14MS	Water	03/20/2025	11:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1629-16	Q1629-14MSD	Water	03/20/2025	11:20					
					VOCMS Group1		8260-Low		10 Bus. Days

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1629 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 3/21/2025 1:55:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : ~~3/24/2025 4:15:00~~ PM
Purchase Order : 3|21 17:15

Project Mgr : YAZMEEN
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 3/24/2025 10:50:10 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 3-24-25 1010

Received By :
Date / Time : 03/24/25 10:10
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	102761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	188642	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	159886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64845	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	2512	1.537	ug/l	0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	3.080%#		
35) Dibromofluoromethane	5.391	113	1752	1.389	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.780%#		
50) Toluene-d8	8.653	98	5691	1.244	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	2.480%#		
62) 4-Bromofluorobenzene	11.085	95	1685	1.112	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	2.220%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1282	1.007	ug/l	90
3) Chloromethane	1.301	50	1552	0.975	ug/l	91
4) Vinyl Chloride	1.368	62	1588	1.008	ug/l #	85
5) Bromomethane	1.593	94	824	1.335	ug/l	99
6) Chloroethane	1.673	64	1228	1.591	ug/l #	74
7) Trichlorofluoromethane	1.880	101	2011	0.957	ug/l	97
8) Diethyl Ether	2.130	74	835	1.045	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.319	101	1081	0.884	ug/l	87
10) Methyl Iodide	2.447	142	1156	0.775	ug/l #	96
11) Tert butyl alcohol	2.941	59	5356	17.299	ug/l #	73
12) 1,1-Dichloroethene	2.313	96	1251	0.991	ug/l	92
13) Acrolein	2.239	56	1756	4.906	ug/l	98
14) Allyl chloride	2.660	41	2343	1.055	ug/l	93
15) Acrylonitrile	3.075	53	4067	4.931	ug/l	99
16) Acetone	2.380	43	4259	5.635	ug/l	100
17) Carbon Disulfide	2.502	76	3256	0.956	ug/l #	92
18) Methyl Acetate	2.703	43	1960	1.066	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	4017	0.943	ug/l	91
20) Methylene Chloride	2.782	84	1656	1.095	ug/l	98
21) trans-1,2-Dichloroethene	3.093	96	1109	0.869	ug/l	91
22) Diisopropyl ether	3.764	45	4026	0.871	ug/l #	80
23) Vinyl Acetate	3.727	43	15271	3.971	ug/l	97
24) 1,1-Dichloroethane	3.605	63	2467	0.958	ug/l #	83
25) 2-Butanone	4.587	43	4894	4.252	ug/l	96
26) 2,2-Dichloropropane	4.471	77	1066	0.872	ug/l #	56
27) cis-1,2-Dichloroethene	4.501	96	1412	0.902	ug/l #	19
28) Bromochloromethane	4.885	49	1144	0.958	ug/l #	54
29) Tetrahydrofuran	5.032	42	3719	4.809	ug/l #	34
30) Chloroform	5.093	83	2478	0.978	ug/l	92
31) Cyclohexane	5.465	56	1875	0.843	ug/l	90
32) 1,1,1-Trichloroethane	5.373	97	1867	0.893	ug/l #	52
36) 1,1-Dichloropropene	5.690	75	1681	0.967	ug/l #	84
37) Ethyl Acetate	4.739	43	1582	0.703	ug/l #	70
38) Carbon Tetrachloride	5.660	117	588	0.332	ug/l #	81
39) Methylcyclohexane	7.385	83	1750	0.831	ug/l	88
40) Benzene	6.031	78	4984	0.907	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.958	41	912	0.748	ug/l	#	80
42) 1,2-Dichloroethane	6.099	62	1837	0.924	ug/l		78
43) Isopropyl Acetate	6.355	43	2545	0.767	ug/l	#	95
44) Trichloroethene	7.129	130	1202	0.933	ug/l		65
45) 1,2-Dichloropropane	7.434	63	1334	0.971	ug/l	#	82
46) Dibromomethane	7.586	93	891	0.897	ug/l		92
47) Bromodichloromethane	7.818	83	1802	0.927	ug/l	#	85
48) Methyl methacrylate	7.714	41	1125	0.699	ug/l	#	61
49) 1,4-Dioxane	7.684	88	639	18.144	ug/l	#	81
51) 4-Methyl-2-Pentanone	8.574	43	10091	4.567	ug/l		95
52) Toluene	8.720	92	2700	0.841	ug/l		97
53) t-1,3-Dichloropropene	8.994	75	1147	0.700	ug/l	#	85
54) cis-1,3-Dichloropropene	8.373	75	1525	0.804	ug/l	#	90
55) 1,1,2-Trichloroethane	9.153	97	1306	1.004	ug/l	#	90
56) Ethyl methacrylate	9.135	69	1494	0.748	ug/l	#	93
57) 1,3-Dichloropropane	9.311	76	2112	0.920	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.251	63	4115	4.320	ug/l		95
59) 2-Hexanone	9.439	43	6582	4.153	ug/l		96
60) Dibromochloromethane	9.519	129	1152	0.835	ug/l		98
61) 1,2-Dibromoethane	9.610	107	1174	0.890	ug/l		97
64) Tetrachloroethene	9.275	164	1006	0.986	ug/l	#	88
65) Chlorobenzene	10.080	112	3094	0.908	ug/l		90
66) 1,1,1,2-Tetrachloroethane	10.159	131	1078	0.978	ug/l	#	65
67) Ethyl Benzene	10.195	91	5008	0.846	ug/l	#	85
68) m/p-Xylenes	10.305	106	3552	1.630	ug/l		97
69) o-Xylene	10.640	106	1949	0.891	ug/l		95
70) Styrene	10.665	104	2810	0.802	ug/l		97
71) Bromoform	10.799	173	667	0.768	ug/l	#	92
73) Isopropylbenzene	10.964	105	4405	0.858	ug/l		96
74) N-amyl acetate	10.854	43	1750	0.732	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	11.213	83	1809	0.954	ug/l		88
76) 1,2,3-Trichloropropane	11.244	75	1878	1.246	ug/l		86
77) Bromobenzene	11.201	156	1166	0.972	ug/l		91
78) n-propylbenzene	11.305	91	4475	0.773	ug/l		97
79) 2-Chlorotoluene	11.366	91	3616	0.986	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	3386	0.815	ug/l		94
81) trans-1,4-Dichloro-2-b...	11.031	75	285	0.646	ug/l	#	81
82) 4-Chlorotoluene	11.457	91	3631	0.904	ug/l		99
83) tert-Butylbenzene	11.713	119	3928	0.929	ug/l		96
84) 1,2,4-Trimethylbenzene	11.756	105	3432	0.827	ug/l		95
85) sec-Butylbenzene	11.890	105	3891	0.752	ug/l		100
86) p-Isopropyltoluene	12.012	119	3257	0.797	ug/l		94
87) 1,3-Dichlorobenzene	11.976	146	1948	0.913	ug/l		96
88) 1,4-Dichlorobenzene	11.976	146	1948	0.900	ug/l		97
89) n-Butylbenzene	12.335	91	2470	0.691	ug/l		93
90) Hexachloroethane	12.536	117	609	0.805	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	1918	0.890	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	308	0.859	ug/l		82
93) 1,2,4-Trichlorobenzene	13.591	180	866	0.706	ug/l		93
94) Hexachlorobutadiene	13.725	225	462	0.917	ug/l		94
95) Naphthalene	13.780	128	3337	0.707	ug/l	#	94
96) 1,2,3-Trichlorobenzene	13.963	180	969	0.759	ug/l		93

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

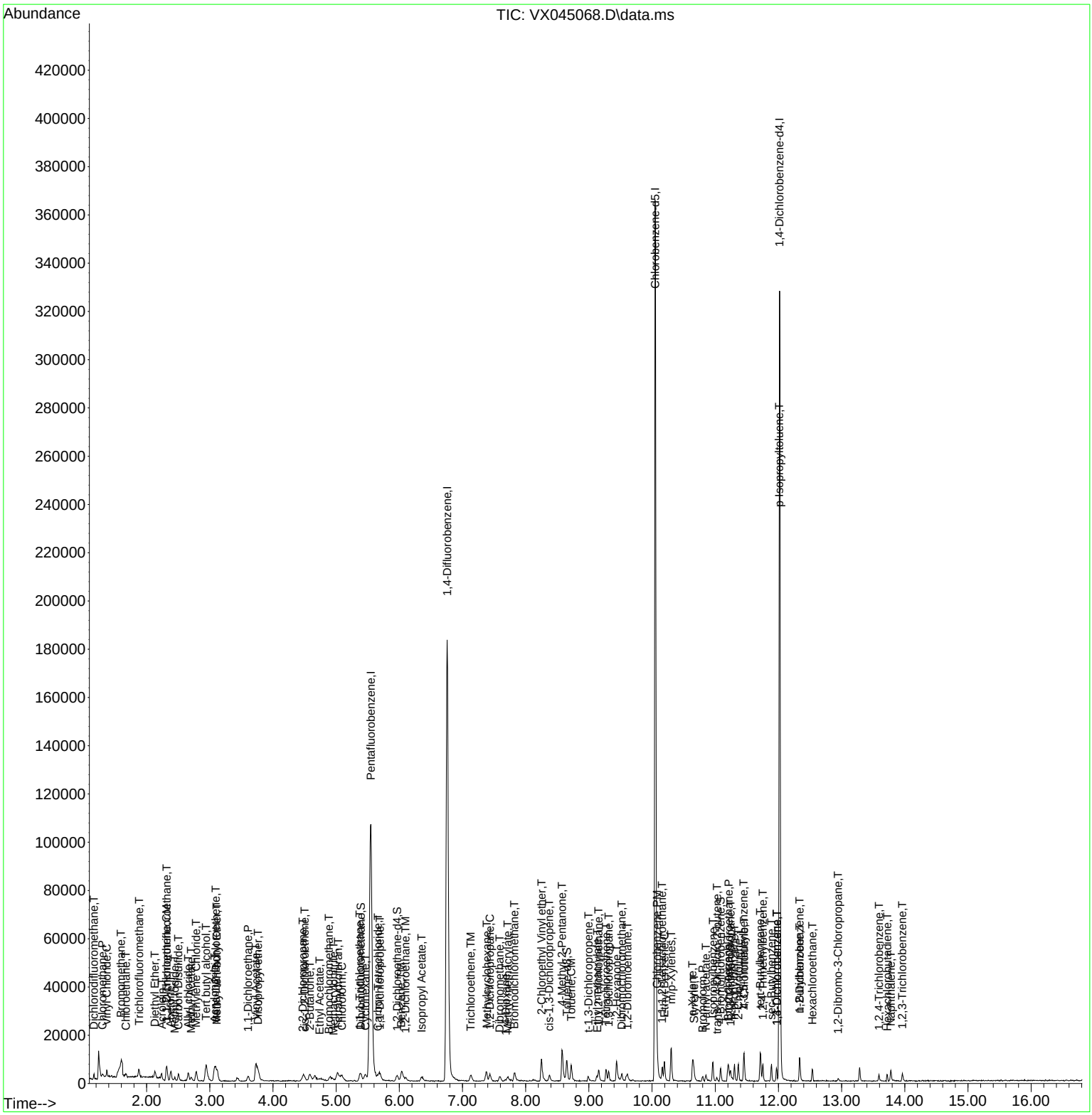
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

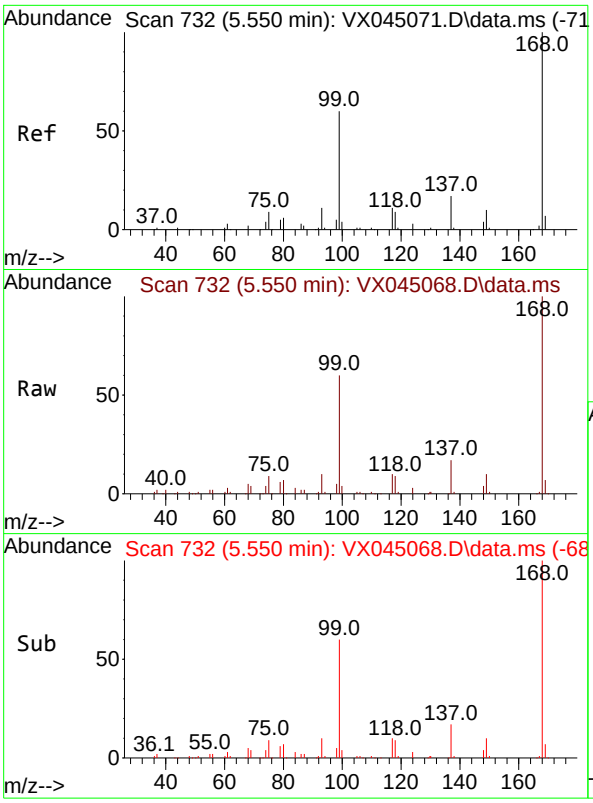
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration



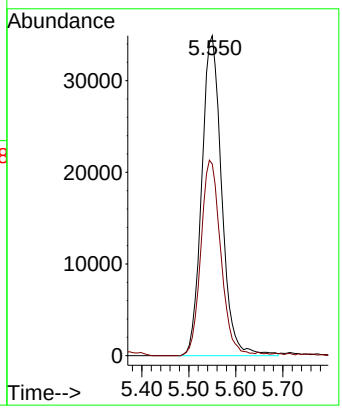


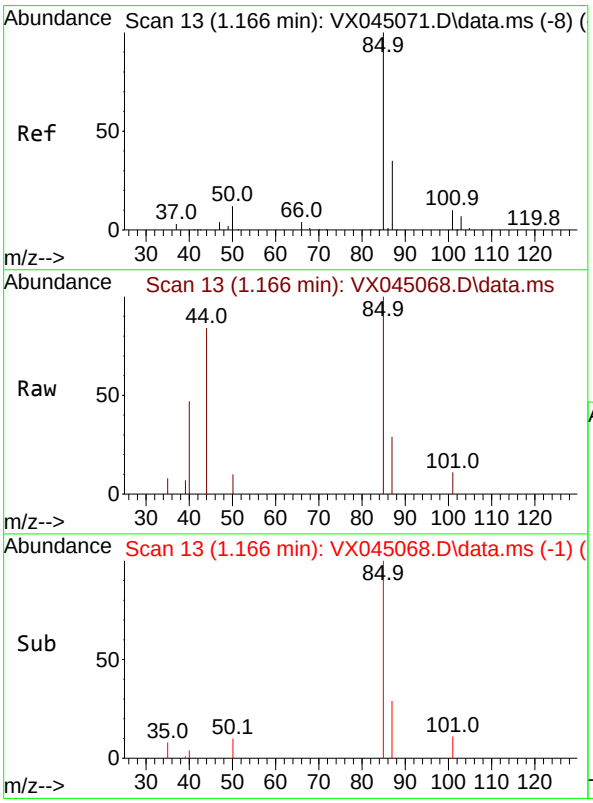
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 102761

Ion	Ratio	Lower	Upper
168	100		
99	59.9	48.2	72.4

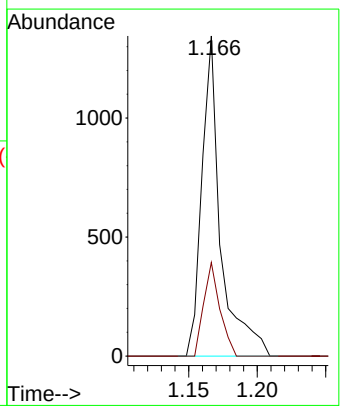


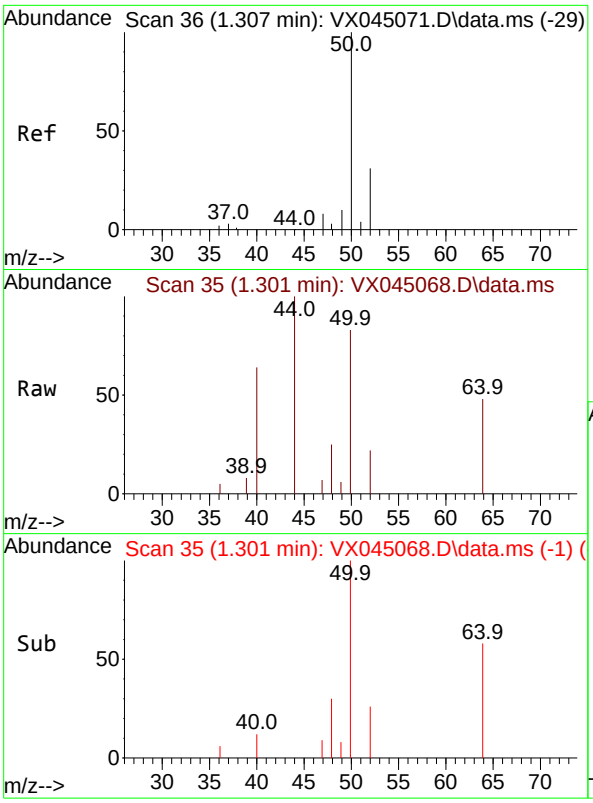


#2
Dichlorodifluoromethane
Concen: 1.007 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 85 Resp: 1282

Ion	Ratio	Lower	Upper
85	100		
87	29.2	17.4	52.3



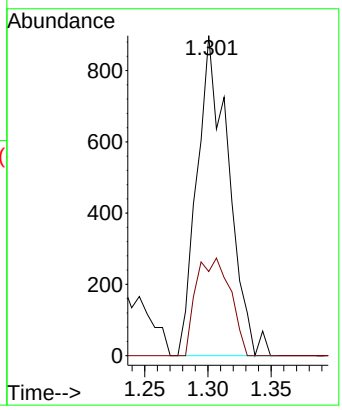


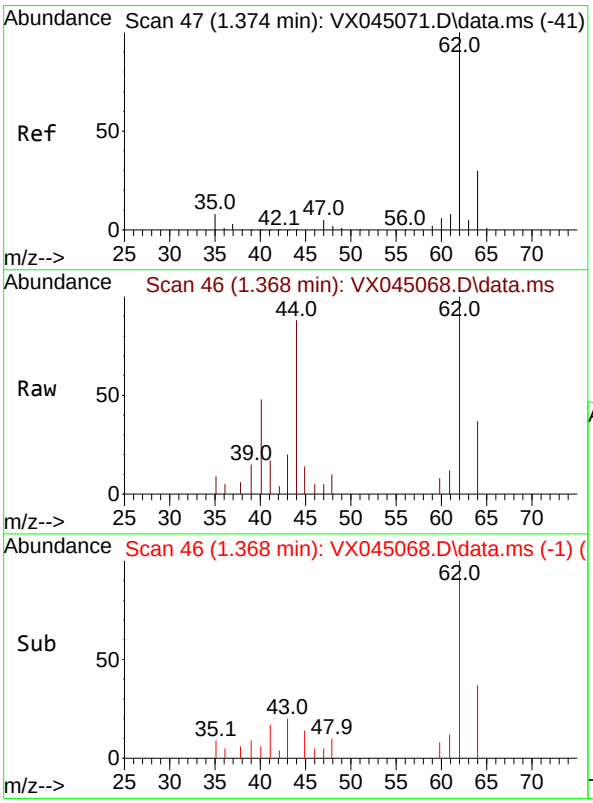
#3
Chloromethane
Concen: 0.975 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 1552

Ion	Ratio	Lower	Upper
50	100		
52	26.3	25.0	37.4

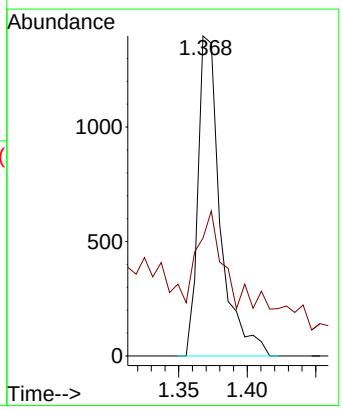


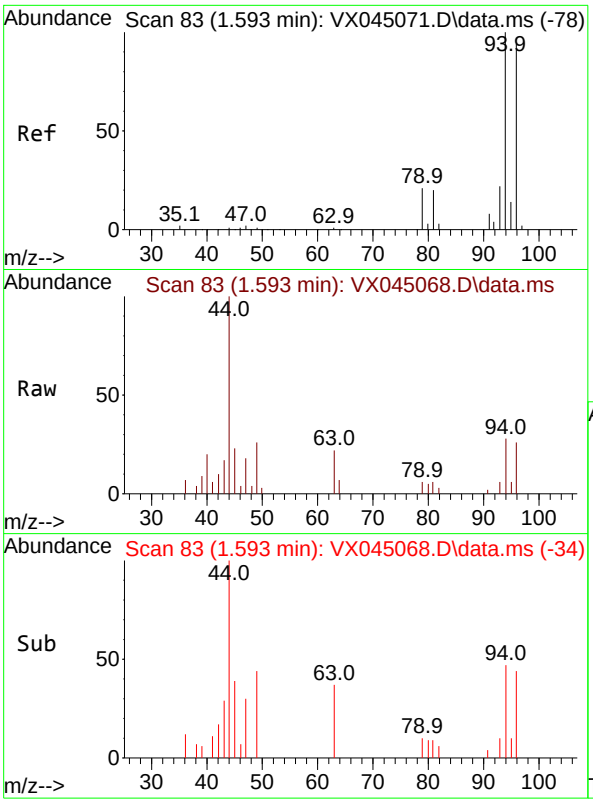


#4
Vinyl Chloride
Concen: 1.008 ug/l
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 62 Resp: 1588

Ion	Ratio	Lower	Upper
62	100		
64	22.0	24.3	36.5#



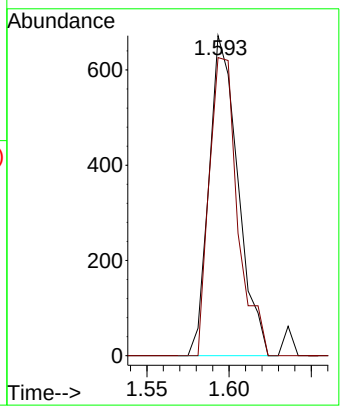


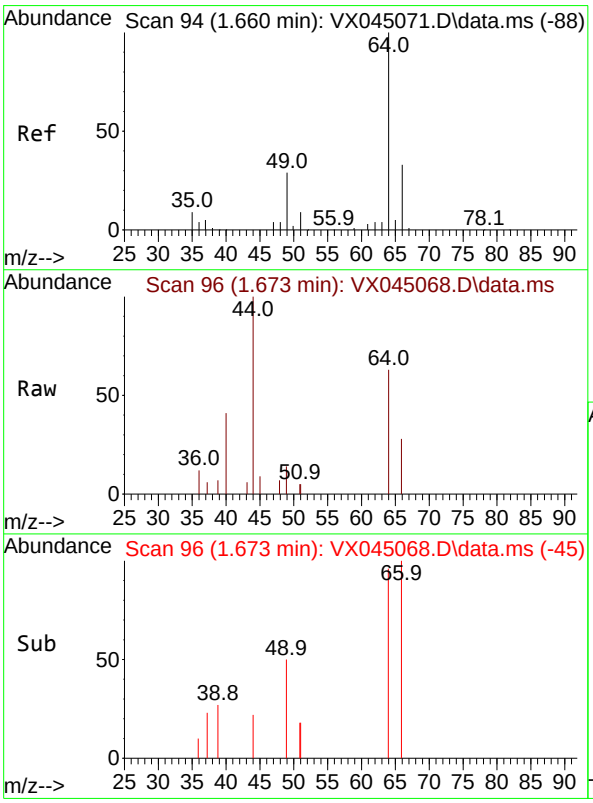
#5
Bromomethane
Concen: 1.335 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 824

Ion	Ratio	Lower	Upper
94	100		
96	93.2	75.0	112.4

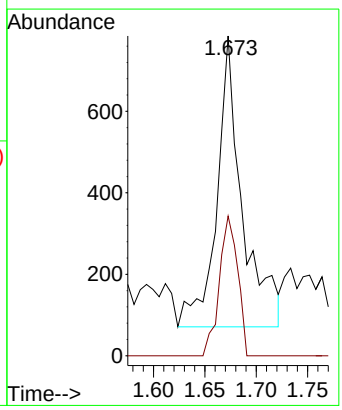


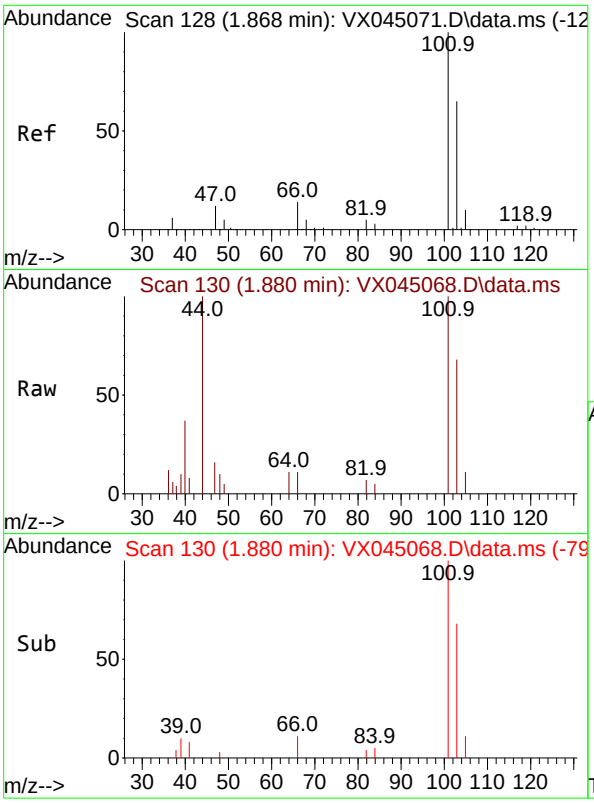


#6
Chloroethane
Concen: 1.591 ug/l
RT: 1.673 min Scan# 96
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 64 Resp: 1228

Ion	Ratio	Lower	Upper
64	100		
66	48.0	26.7	40.1#



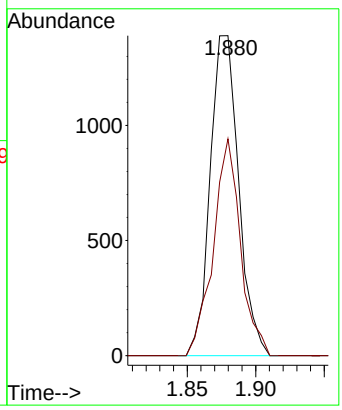


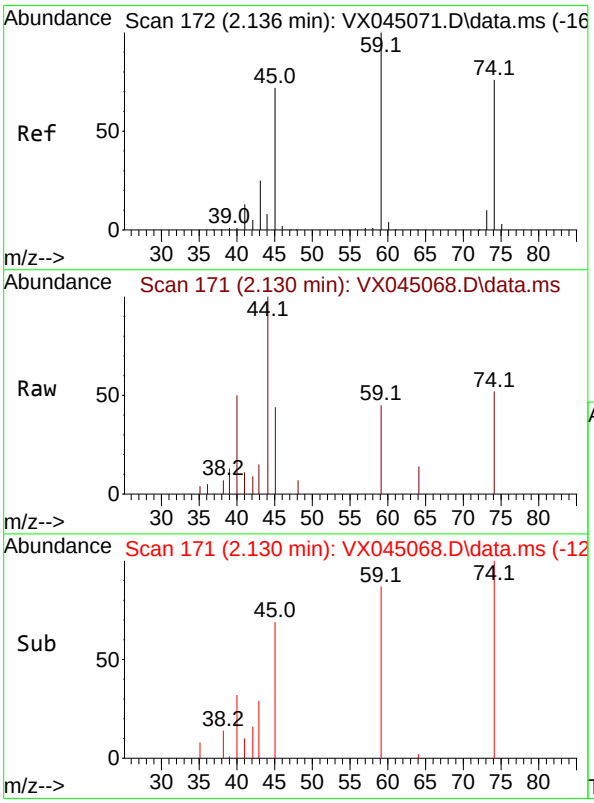
#7
Trichlorofluoromethane
Concen: 0.957 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 2011

Ion	Ratio	Lower	Upper
101	100		
103	67.8	52.1	78.1

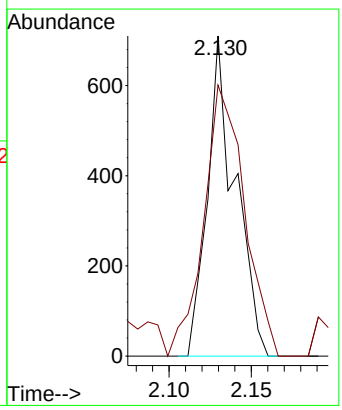


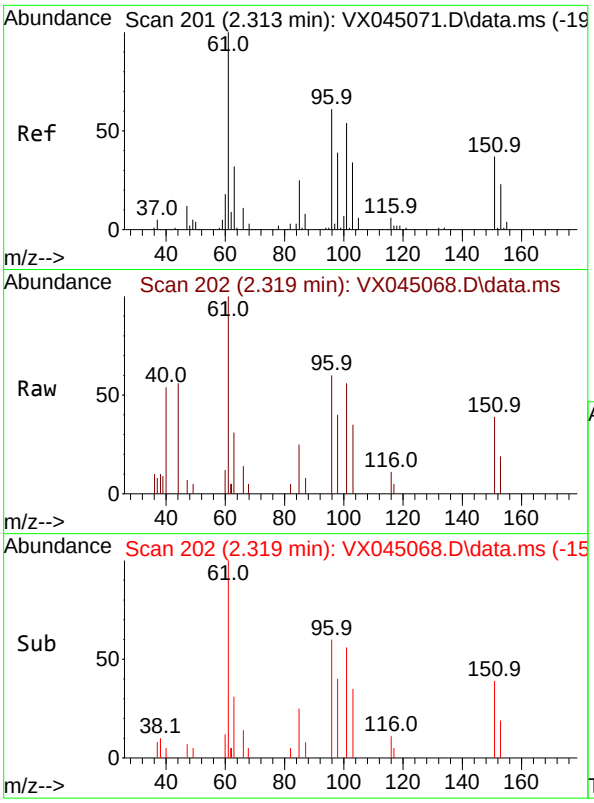


#8
Diethyl Ether
Concen: 1.045 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 74 Resp: 835

Ion	Ratio	Lower	Upper
74	100		
45	123.5	51.5	154.5



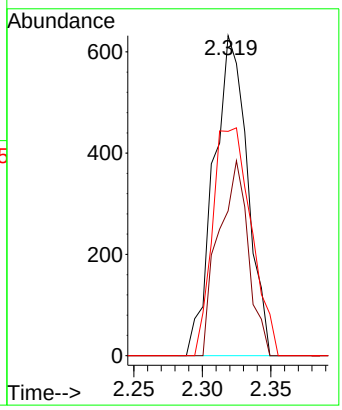


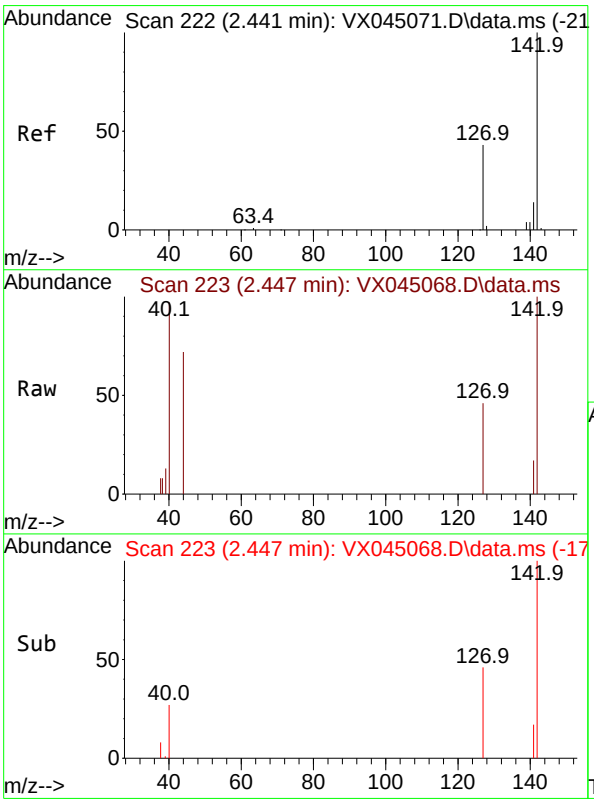
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.884 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1081

Ion	Ratio	Lower	Upper
101	100		
85	53.7	36.2	54.4
151	81.9	56.4	84.6

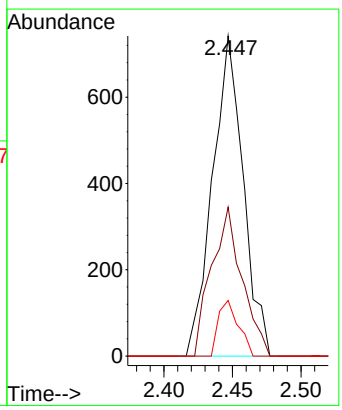


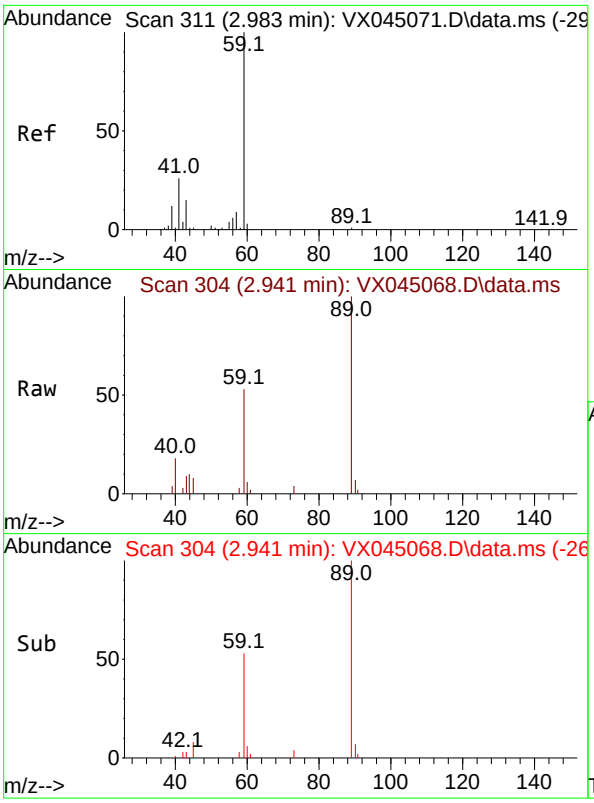


#10
Methyl Iodide
Concen: 0.775 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:142 Resp: 1156

Ion	Ratio	Lower	Upper
142	100		
127	46.3	35.4	53.2
141	11.3	11.6	17.4#



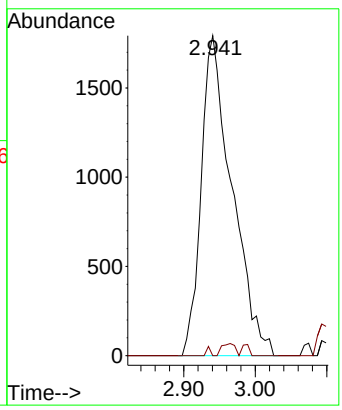


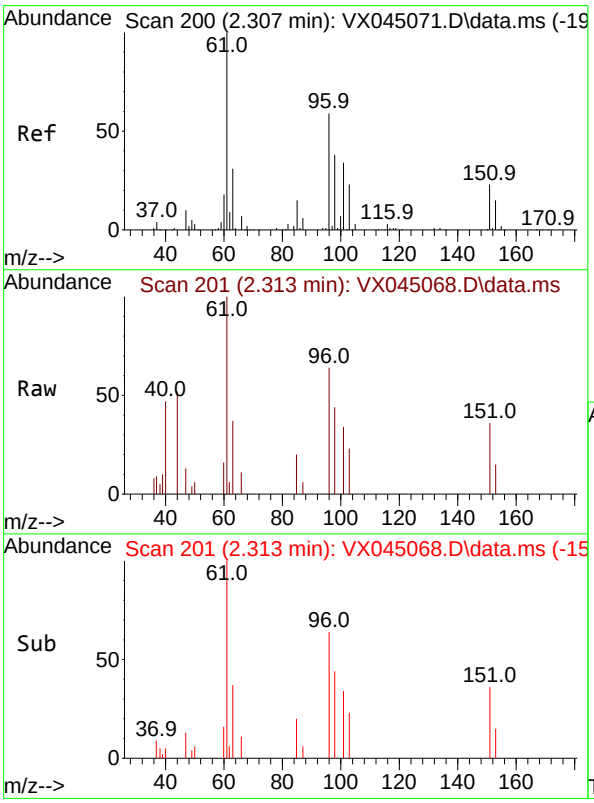
#11
Tert butyl alcohol
Concen: 17.299 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.043 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 5356

Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.8#

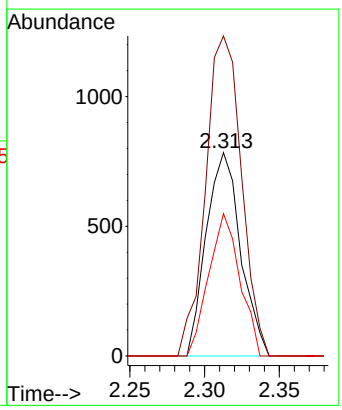


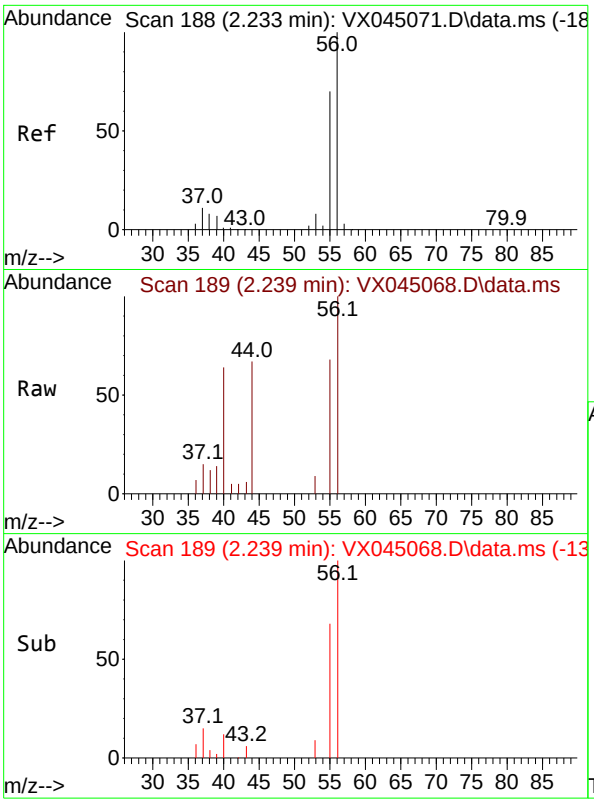


#12
1,1-Dichloroethene
Concen: 0.991 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 96 Resp: 1251

Ion	Ratio	Lower	Upper
96	100		
61	157.4	134.6	202.0
98	70.0	51.0	76.6



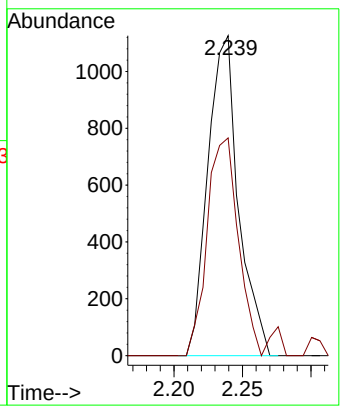


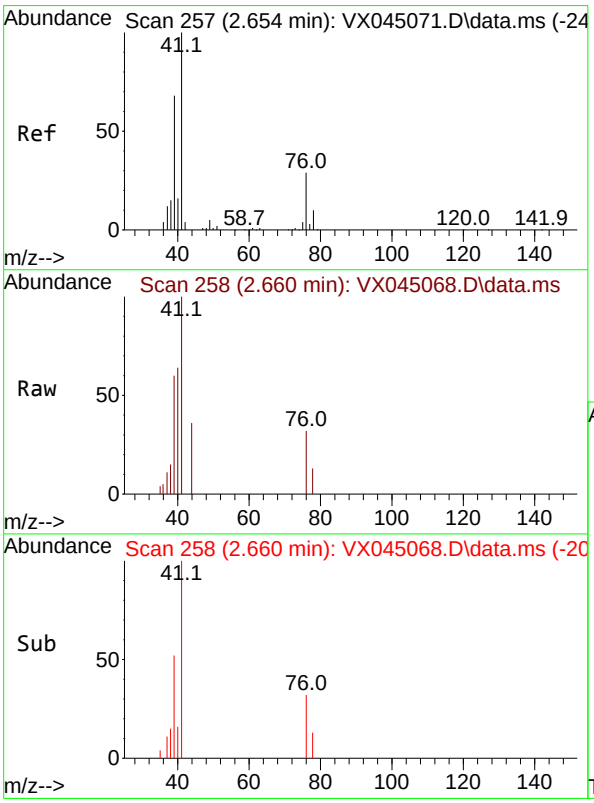
#13
Acrolein
Concen: 4.906 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1756

Ion	Ratio	Lower	Upper
56	100		
55	68.8	56.2	84.4

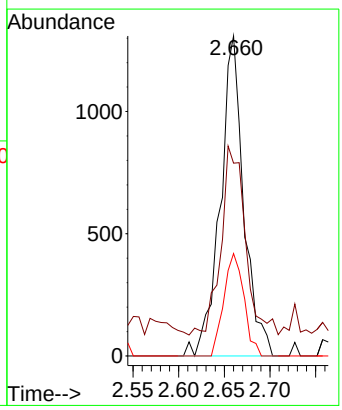


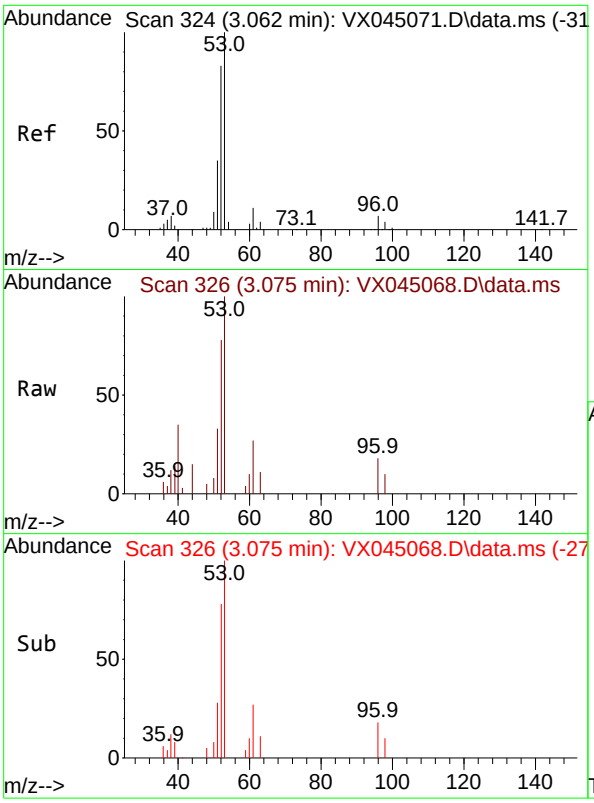


#14
Allyl chloride
Concen: 1.055 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 2343

Ion	Ratio	Lower	Upper
41	100		
39	62.3	53.8	80.8
76	27.4	25.2	37.8



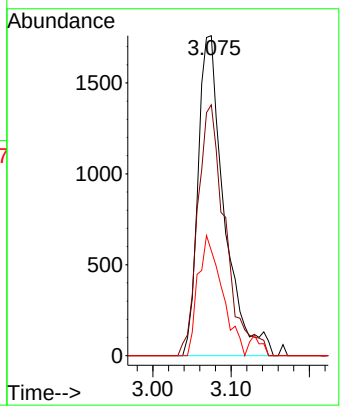


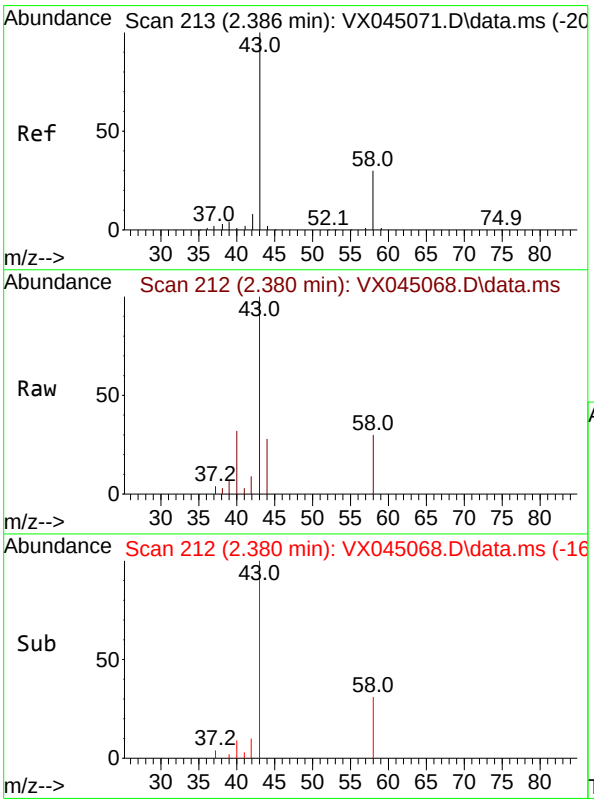
#15
Acrylonitrile
Concen: 4.931 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 4067

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	34.6	29.0	43.4

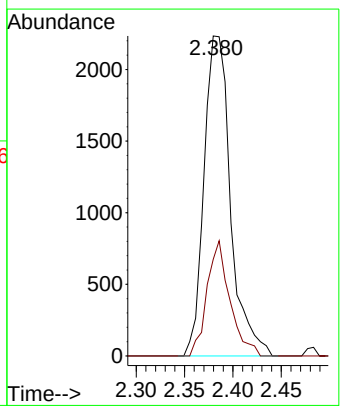


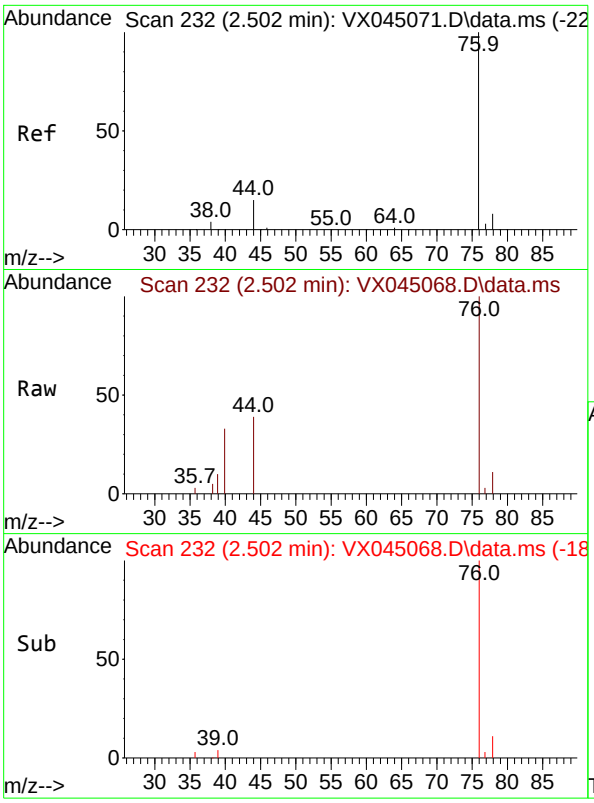


#16
Acetone
Concen: 5.635 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 4259

Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.2	36.4



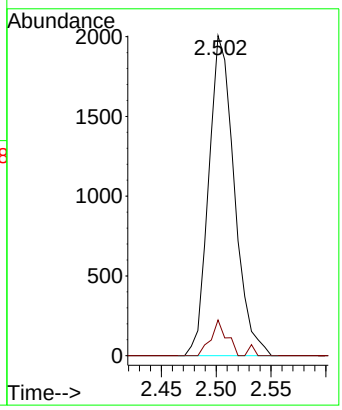


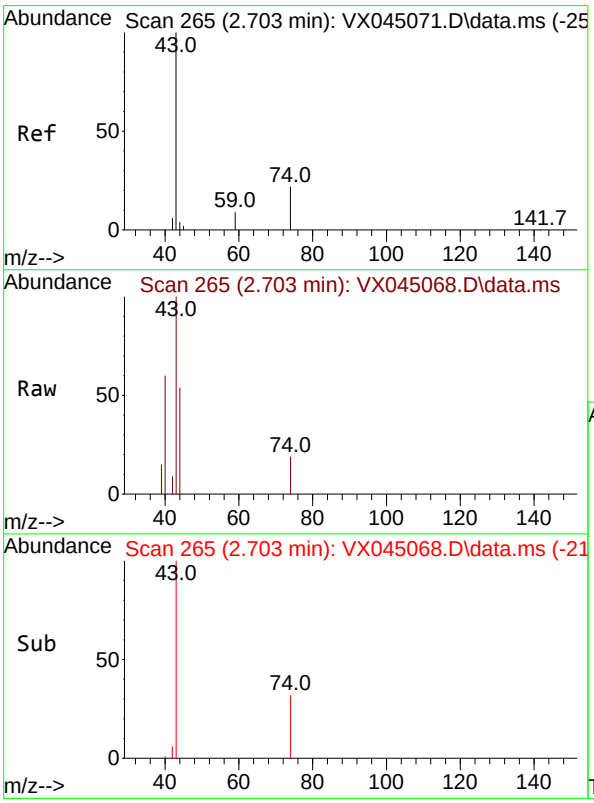
#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 3256

Ion	Ratio	Lower	Upper
76	100		
78	11.2	6.6	9.8#

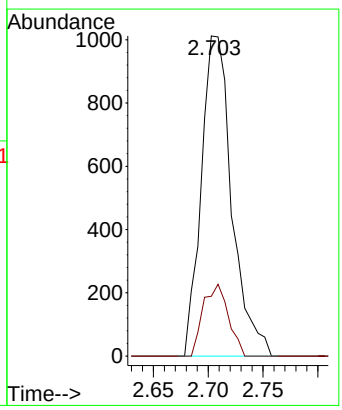


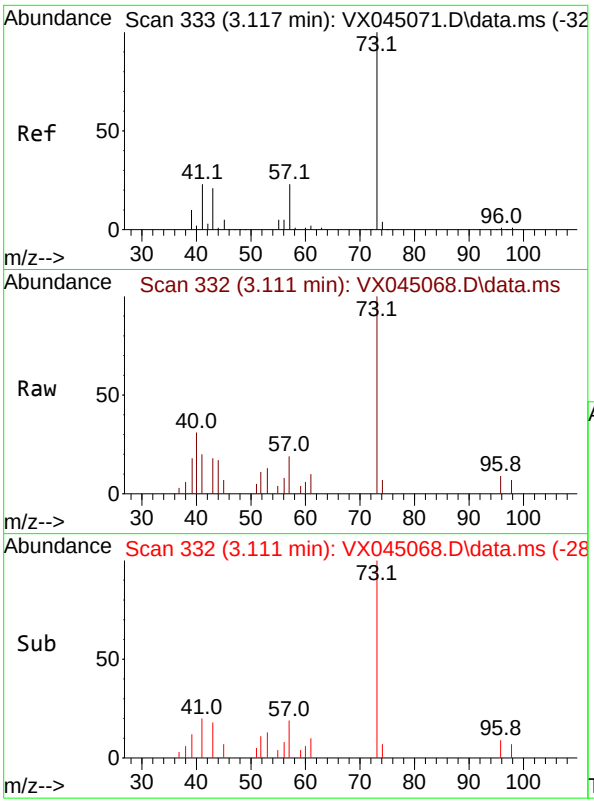


#18
Methyl Acetate
Concen: 1.066 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 1960

Ion	Ratio	Lower	Upper
43	100		
74	18.5	17.4	26.2



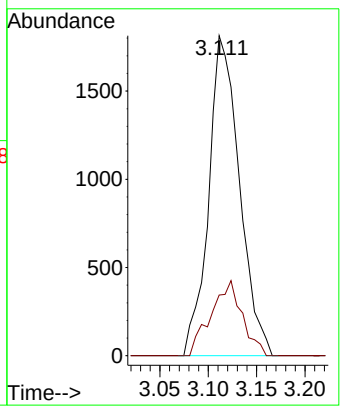


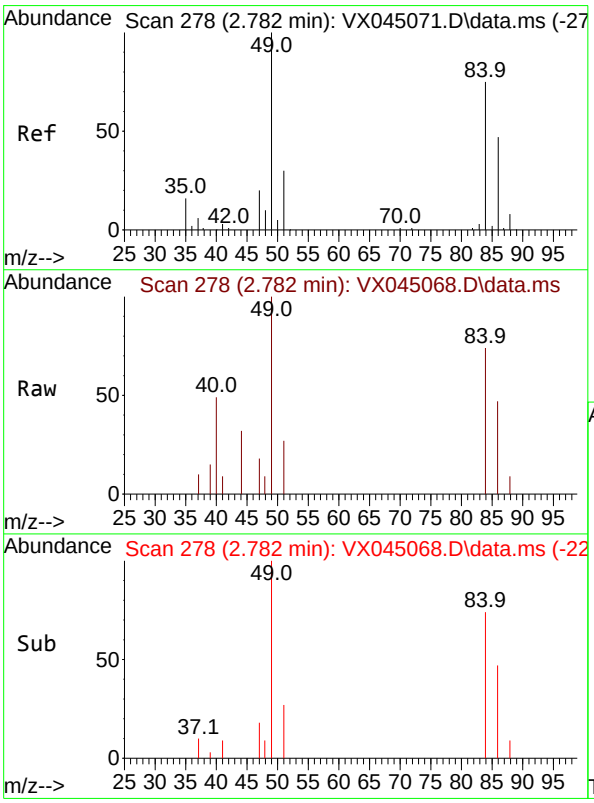
#19
Methyl tert-butyl Ether
Concen: 0.943 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 4017

Ion	Ratio	Lower	Upper
73	100		
57	19.0	18.5	27.7

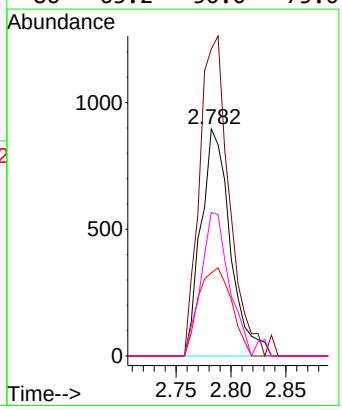


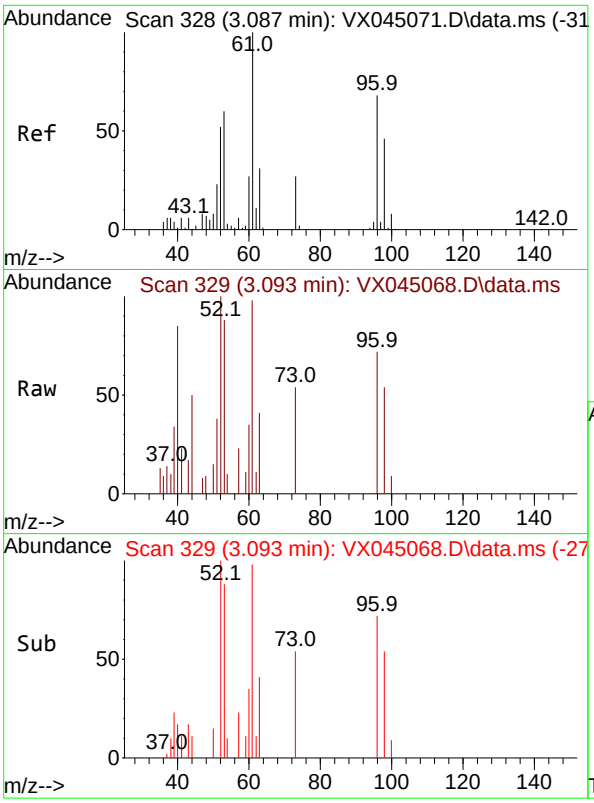


#20
Methylene Chloride
Concen: 1.095 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 84 Resp: 1656

Ion	Ratio	Lower	Upper
84	100		
49	135.2	106.5	159.7
51	36.6	32.1	48.1
86	63.2	50.0	75.0



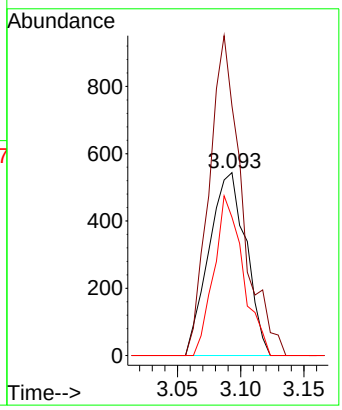


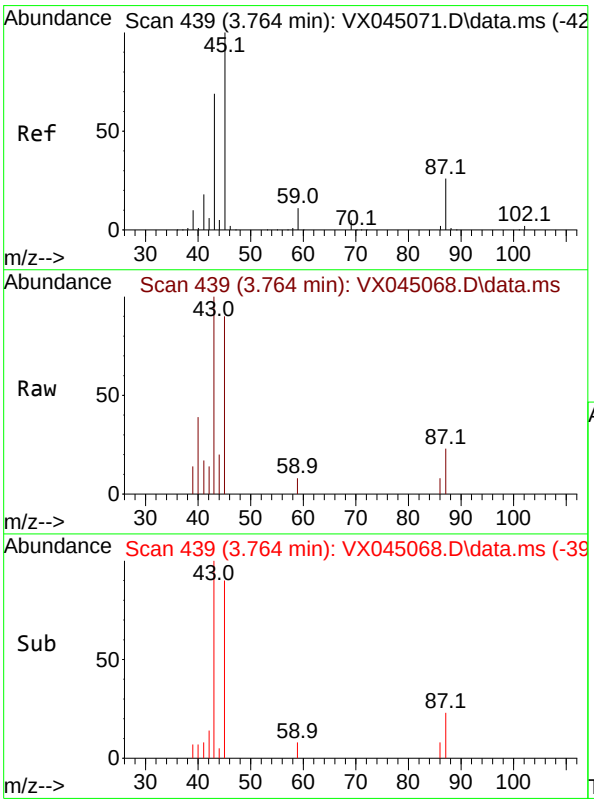
#21
trans-1,2-Dichloroethene
Concen: 0.869 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1109

Ion	Ratio	Lower	Upper
96	100		
61	136.4	117.0	175.4
98	75.6	53.4	80.2

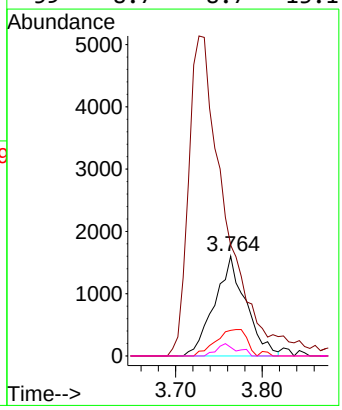


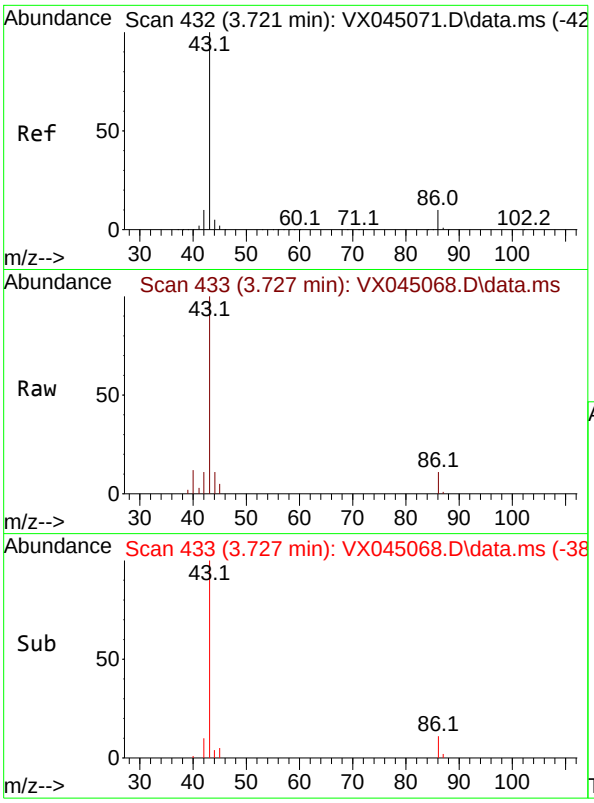


#22
Diisopropyl ether
Concen: 0.871 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 45 Resp: 4026

Ion	Ratio	Lower	Upper
45	100		
43	91.9	54.9	82.3#
87	25.6	21.0	31.4
59	8.7	8.7	13.1



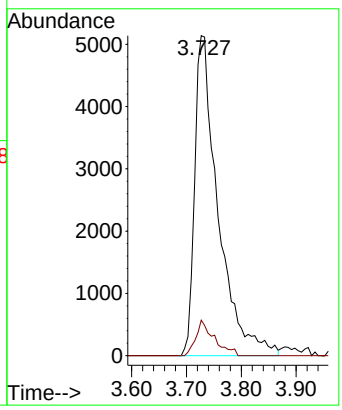


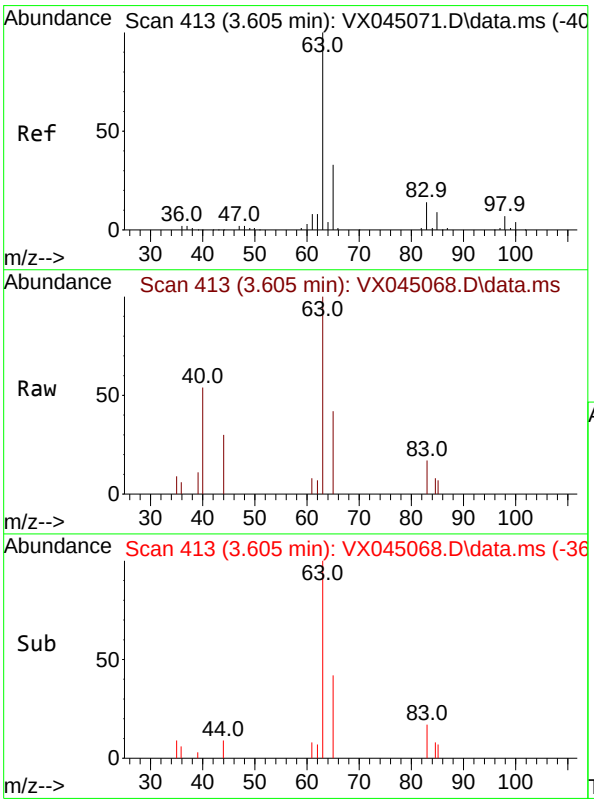
#23
Vinyl Acetate
Concen: 3.971 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 15271

Ion	Ratio	Lower	Upper
43	100		
86	11.1	8.1	12.1

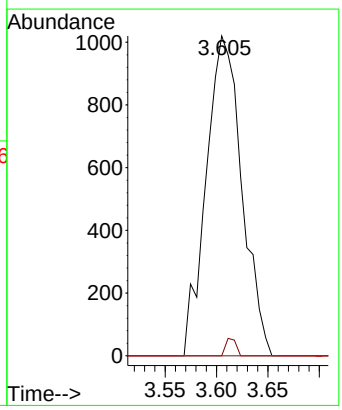


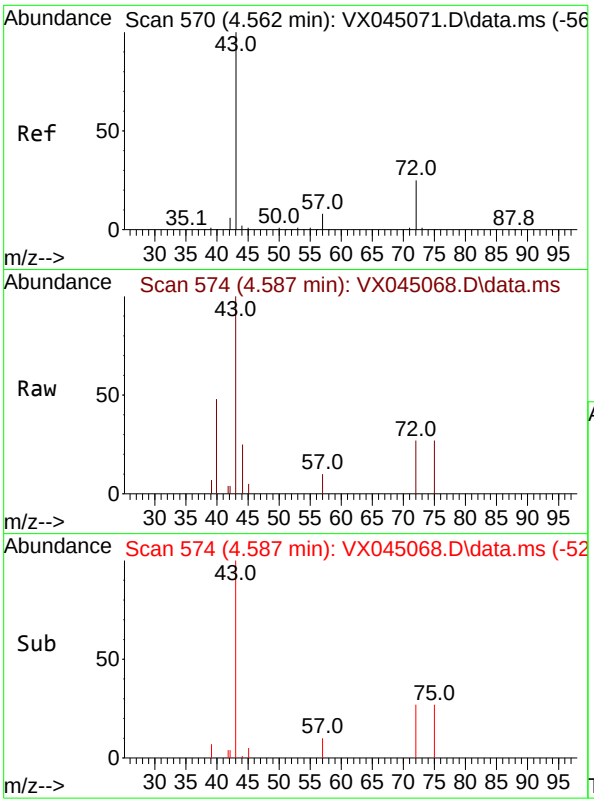


#24
1,1-Dichloroethane
Concen: 0.958 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 2467

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.4	10.2#
100	0.0	2.1	6.5#



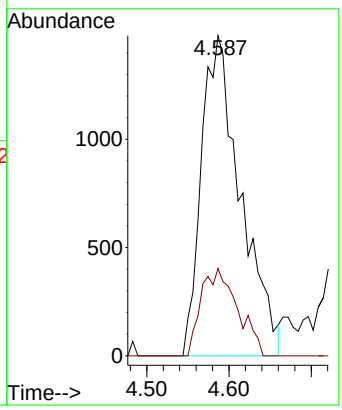


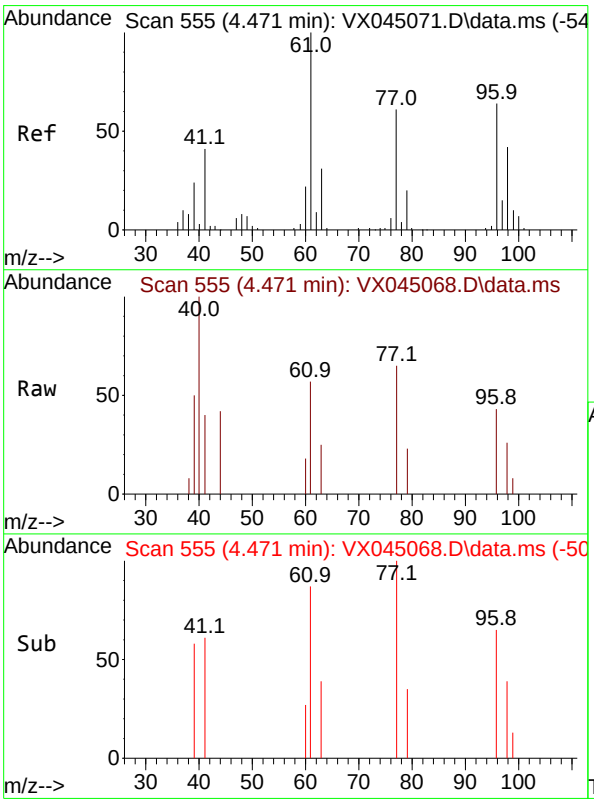
#25
2-Butanone
Concen: 4.252 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 4894

Ion	Ratio	Lower	Upper
43	100		
72	27.2	20.0	30.0

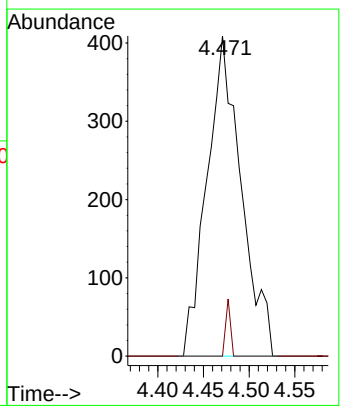


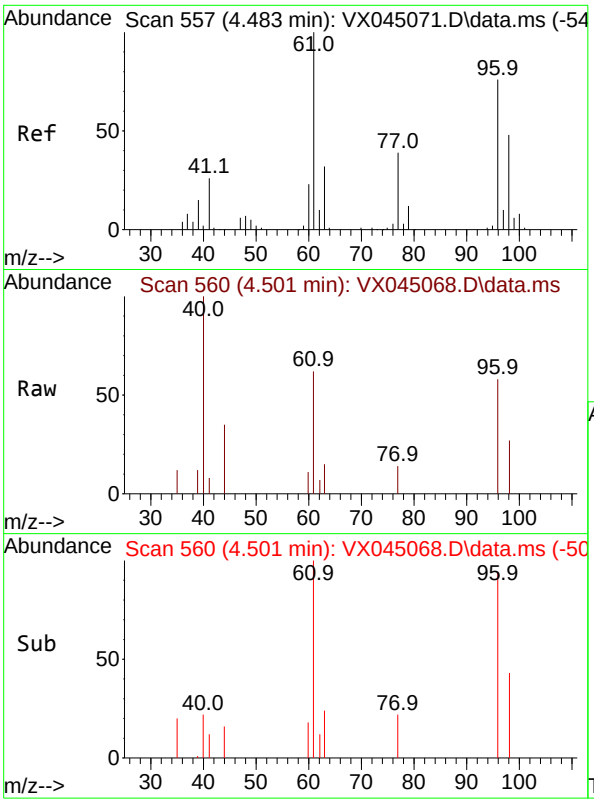


#26
2,2-Dichloropropane
Concen: 0.872 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 77 Resp: 1066

Ion	Ratio	Lower	Upper
77	100		
97	2.5	12.4	37.0#



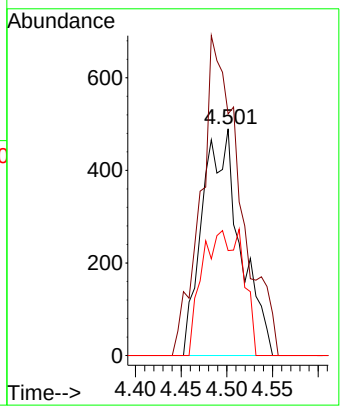


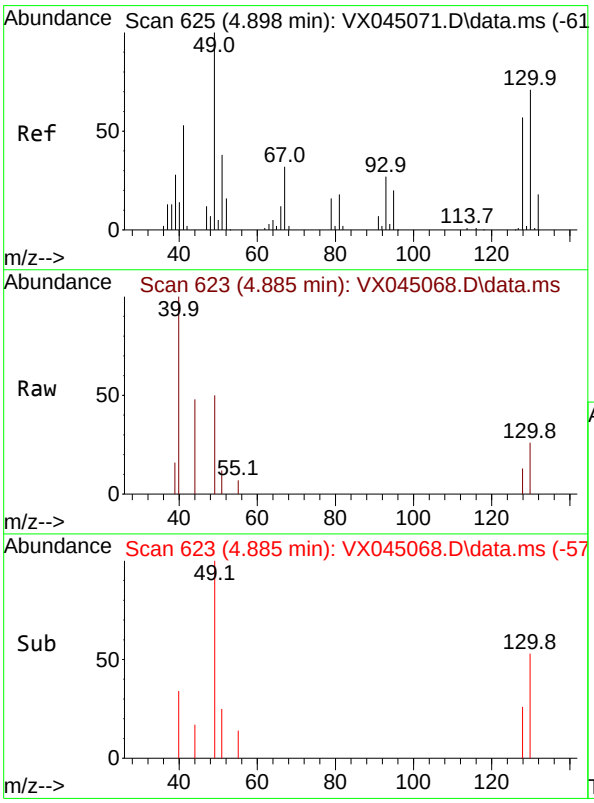
#27
cis-1,2-Dichloroethene
Concen: 0.902 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1412

Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	283.2
98	59.1	0.0	128.0

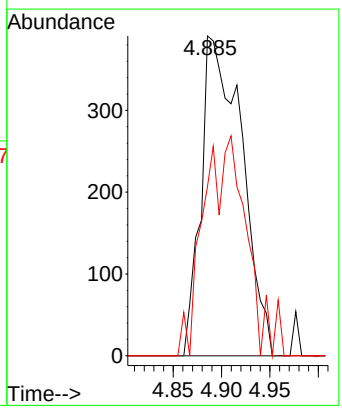


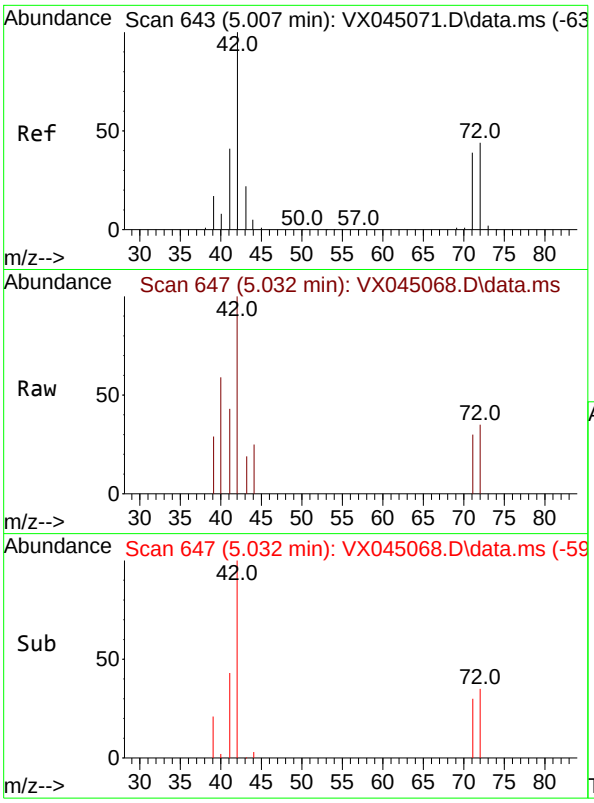


#28
Bromochloromethane
Concen: 0.958 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 49 Resp: 1144

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	31.5	56.1	84.1#



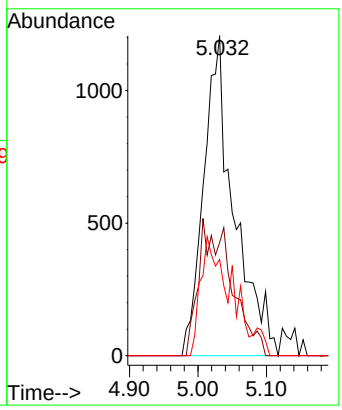


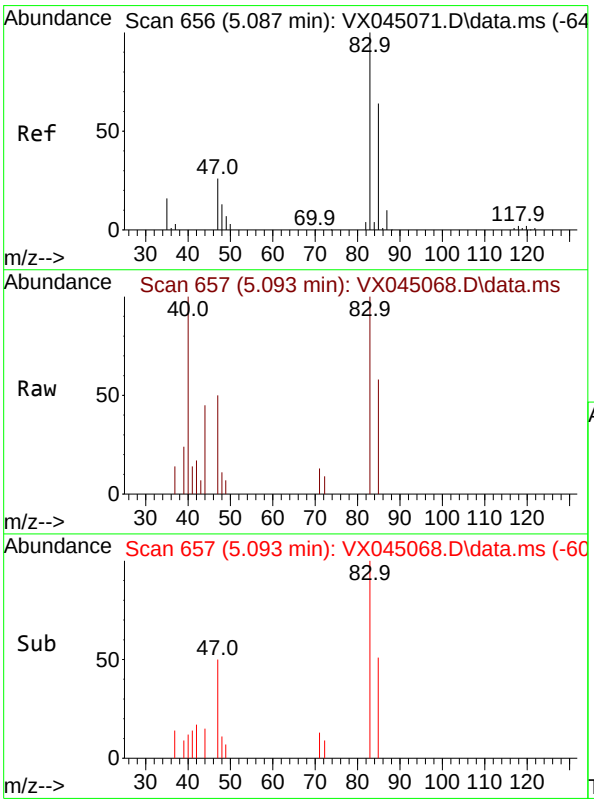
#29
Tetrahydrofuran
Concen: 4.809 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 3719

Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.1	51.1#
71	0.0	31.4	47.0#

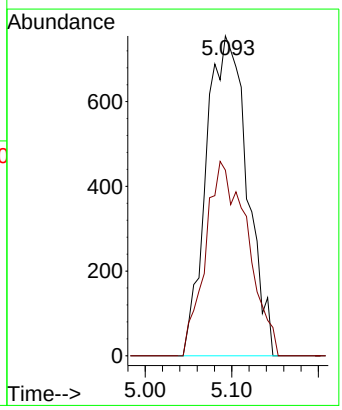


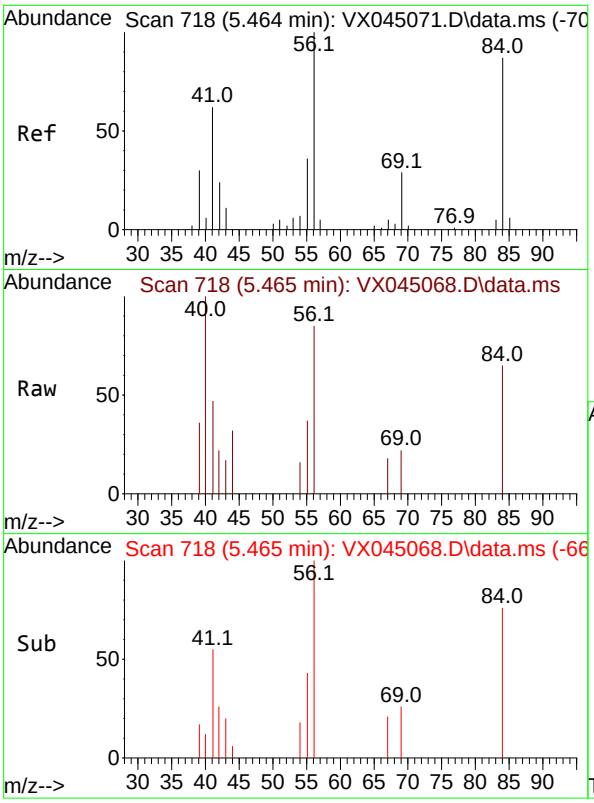


#30
Chloroform
Concen: 0.978 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 2478

Ion	Ratio	Lower	Upper
83	100		
85	58.0	51.4	77.2



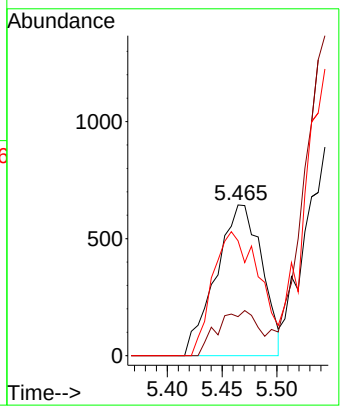


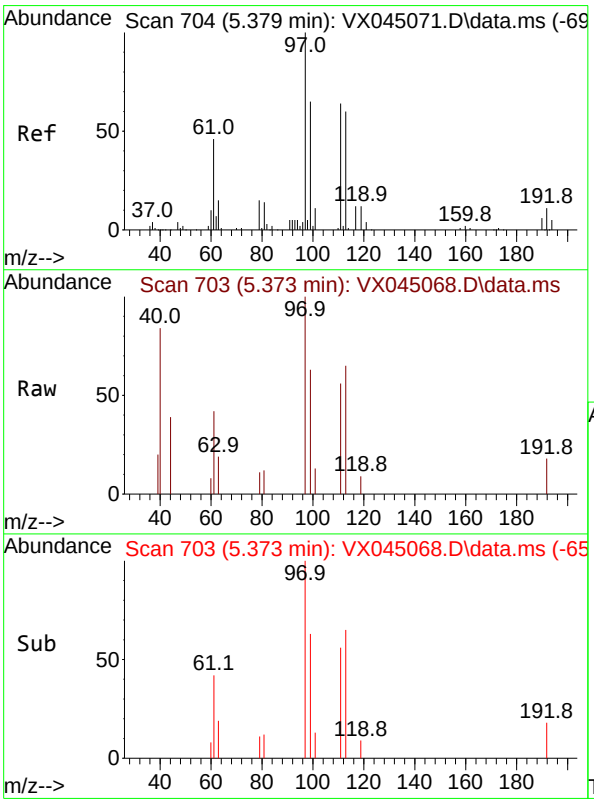
#31
Cyclohexane
Concen: 0.843 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1875

Ion	Ratio	Lower	Upper
56	100		
69	25.9	23.4	35.2
84	76.2	69.4	104.2

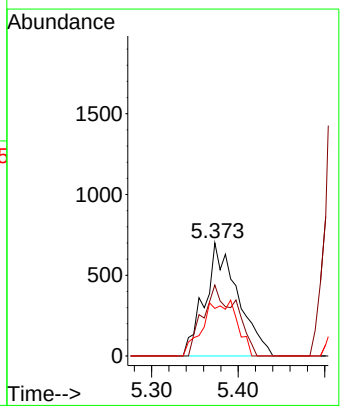


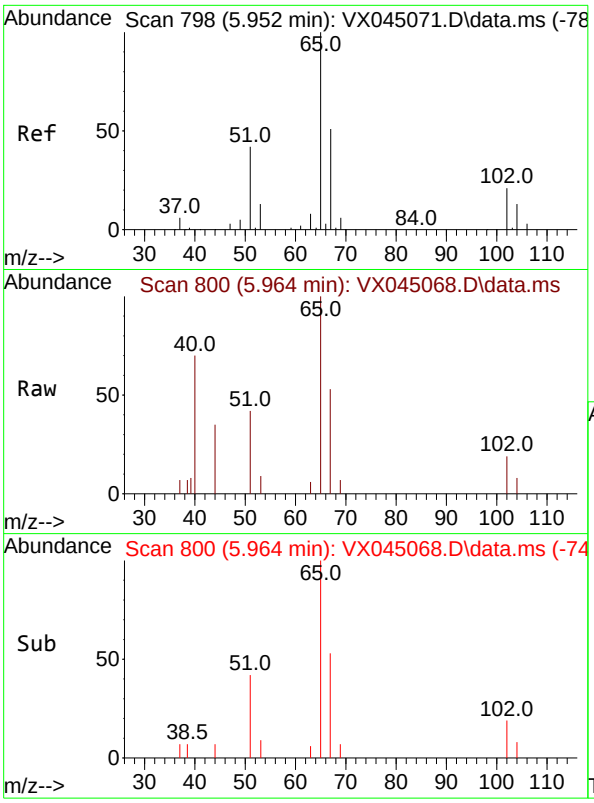


#32
1,1,1-Trichloroethane
Concen: 0.893 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 97 Resp: 1867

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	50.0	38.4	57.6



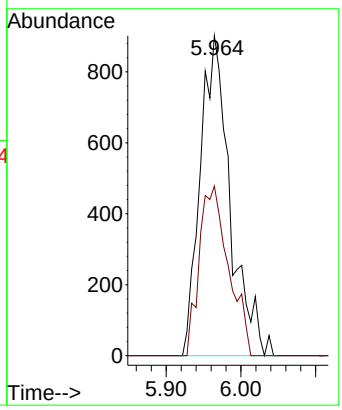


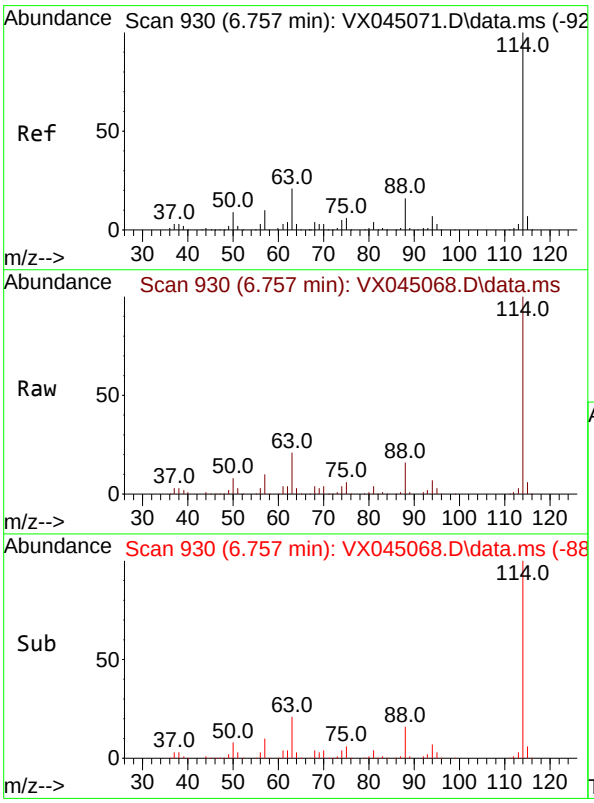
#33
1,2-Dichloroethane-d4
Concen: 1.537 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 2512

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	106.2

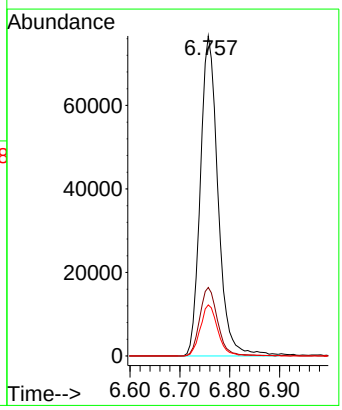


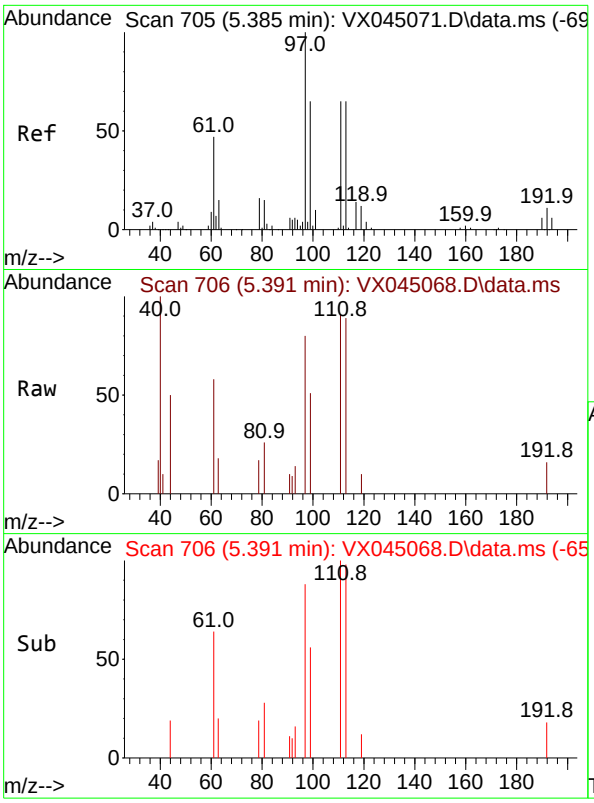


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:114 Resp: 188642

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	41.8
88	16.0	0.0	32.8



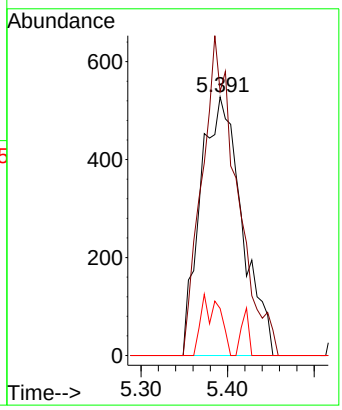


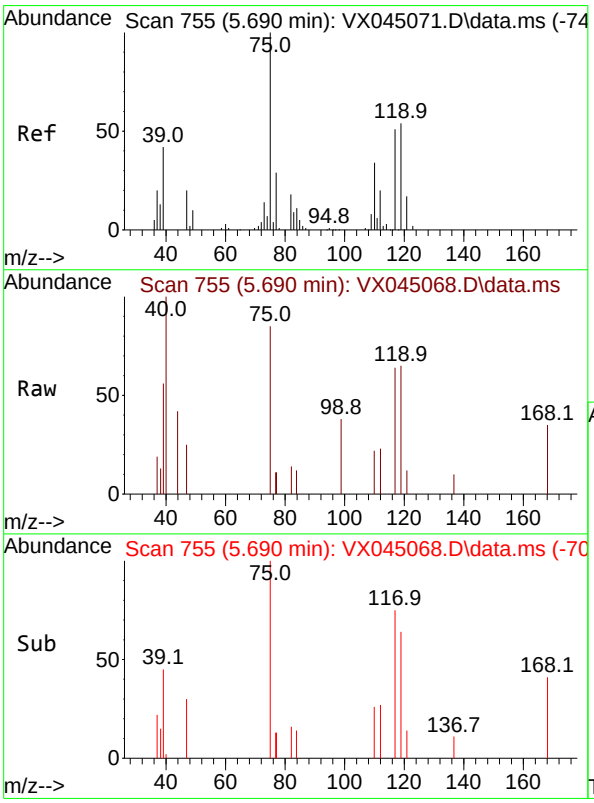
#35
Dibromofluoromethane
Concen: 1.389 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 1752

Ion	Ratio	Lower	Upper
113	100		
111	104.9	81.8	122.6
192	5.1	14.3	21.5#

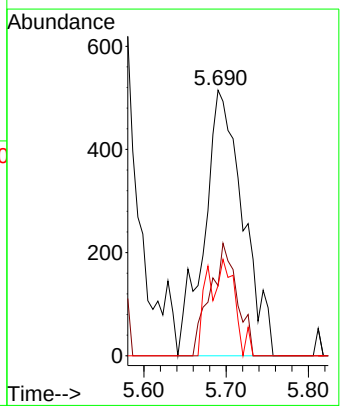


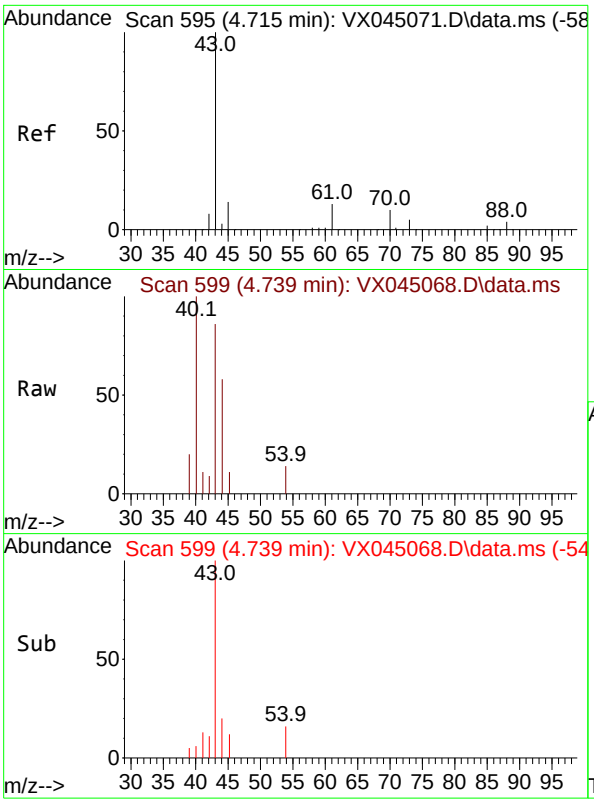


#36
1,1-Dichloropropene
Concen: 0.967 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 1681

Ion	Ratio	Lower	Upper
75	100		
110	29.6	16.9	50.6
77	16.4	24.5	36.7#



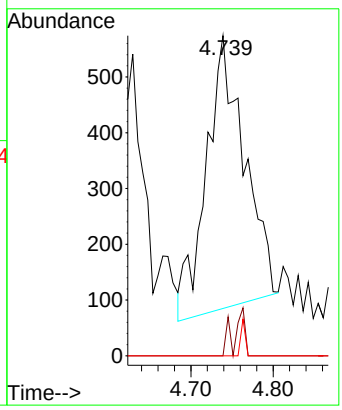


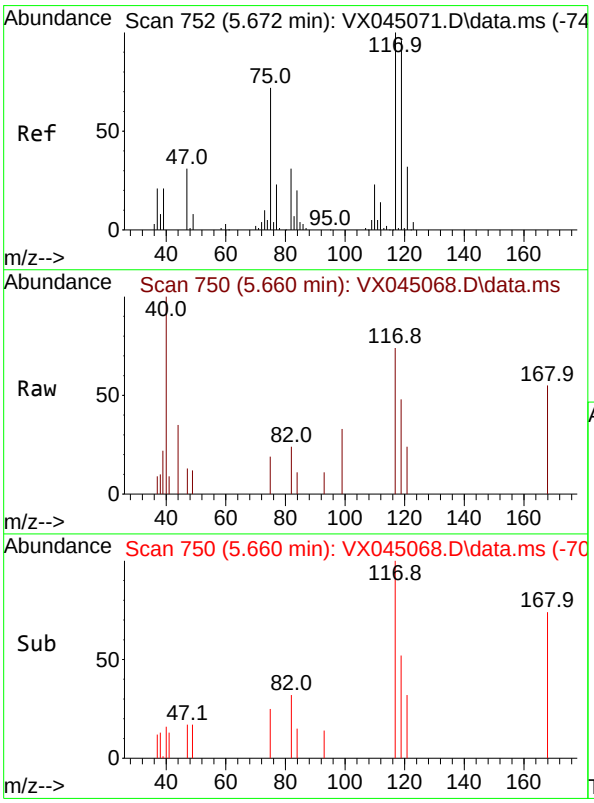
#37
Ethyl Acetate
Concen: 0.703 ug/l
RT: 4.739 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1582

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.8	16.2#
70	0.0	7.7	11.5#

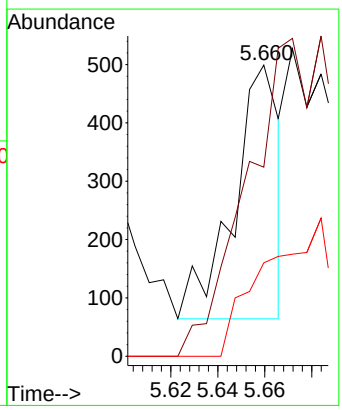


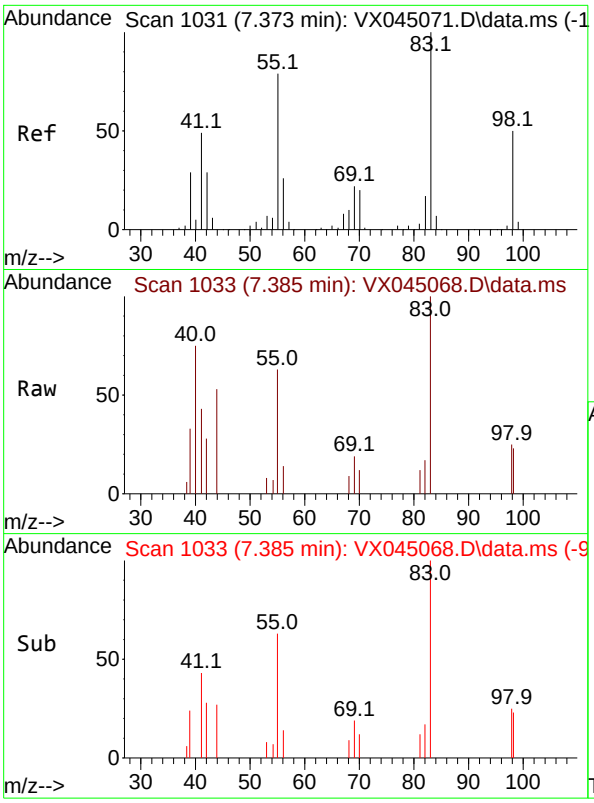


#38
Carbon Tetrachloride
Concen: 0.332 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:117 Resp: 588

Ion	Ratio	Lower	Upper
117	100		
119	74.5	76.7	115.1#
121	36.8	25.5	38.3



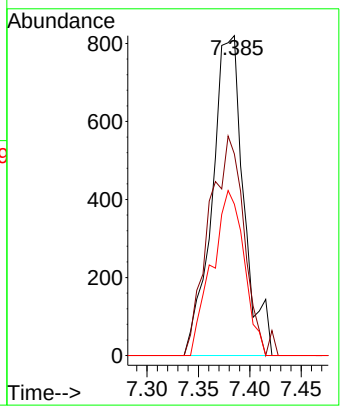


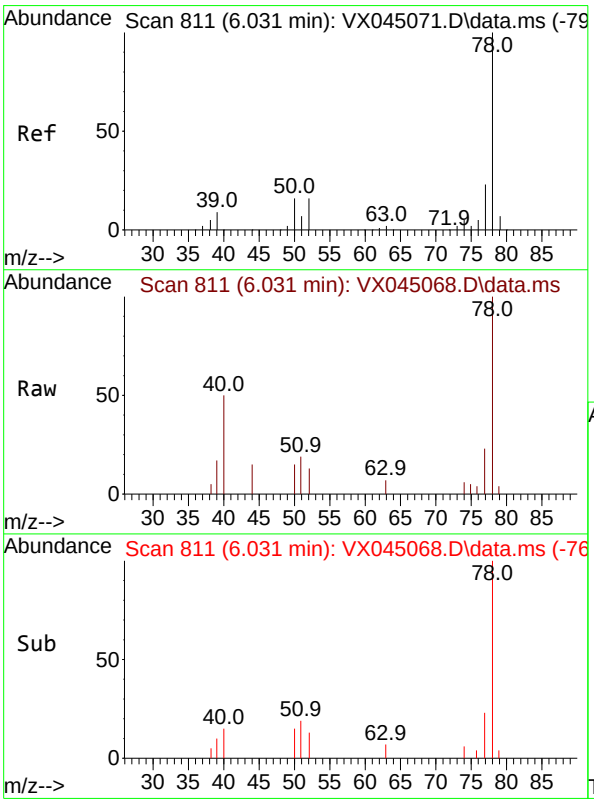
#39
Methylcyclohexane
Concen: 0.831 ug/l
RT: 7.385 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1750

Ion	Ratio	Lower	Upper
83	100		
55	63.0	63.0	94.4
98	47.3	39.7	59.5

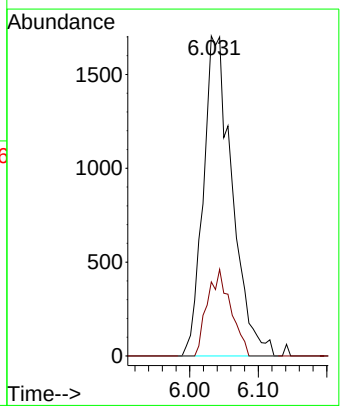


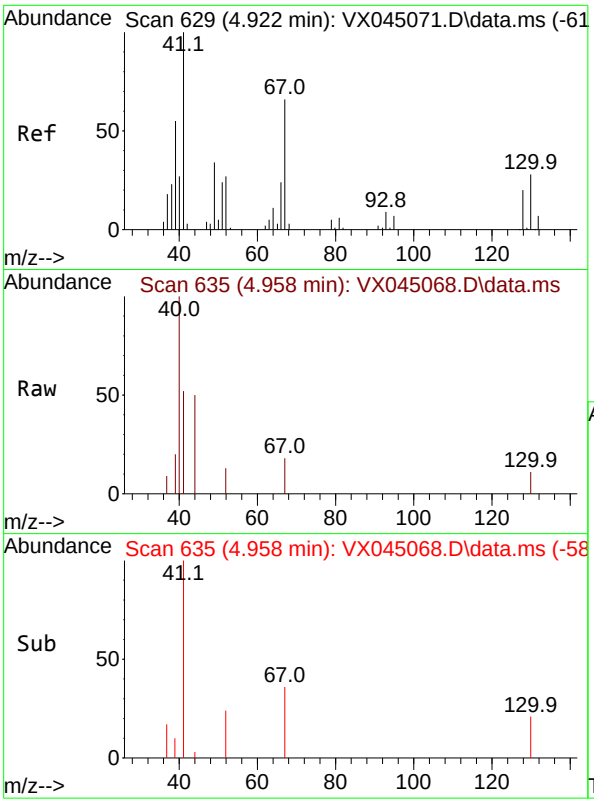


#40
Benzene
Concen: 0.907 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 78 Resp: 4984

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.8	28.2



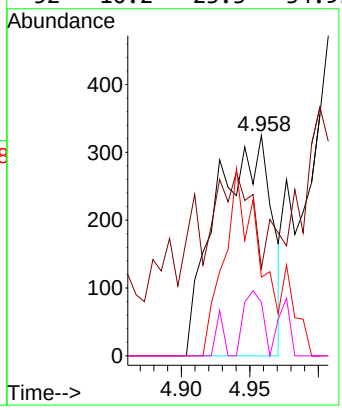


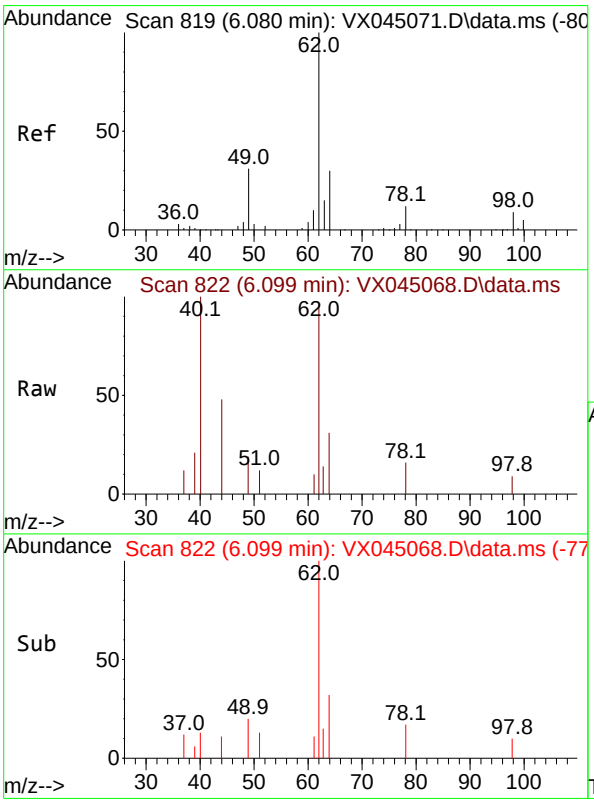
#41
Methacrylonitrile
Concen: 0.748 ug/l
RT: 4.958 min Scan# 6
Delta R.T. 0.037 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 912

Ion	Ratio	Lower	Upper
41	100		
39	34.3	44.6	67.0#
67	63.4	53.9	80.9
52	10.2	23.3	34.9#

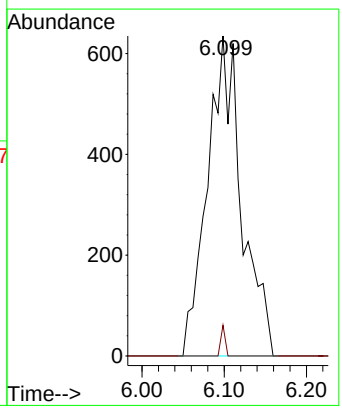


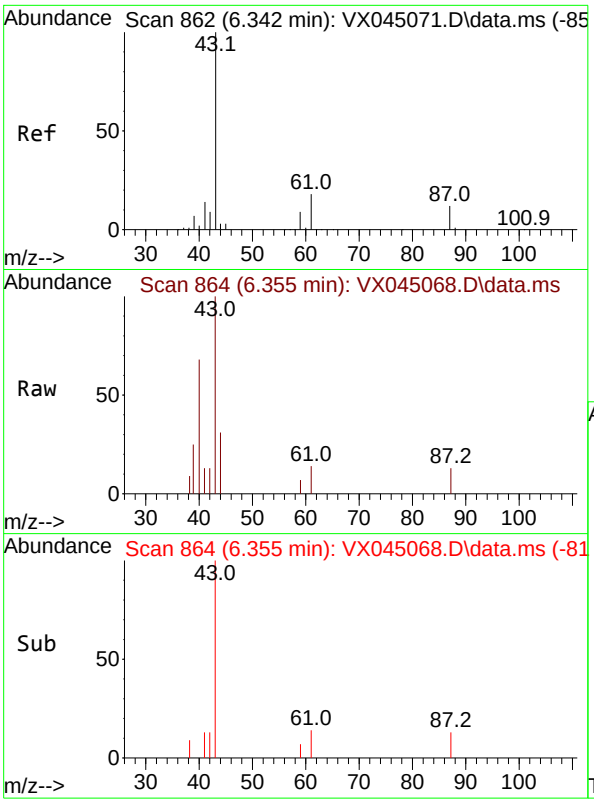


#42
1,2-Dichloroethane
Concen: 0.924 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 62 Resp: 1837

Ion	Ratio	Lower	Upper
62	100		
98	1.2	0.0	18.2



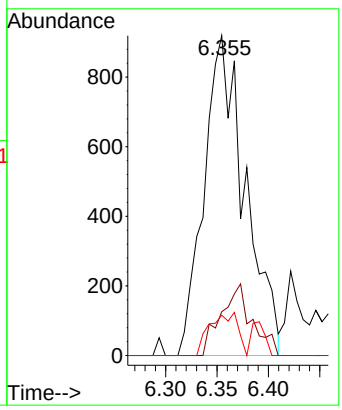


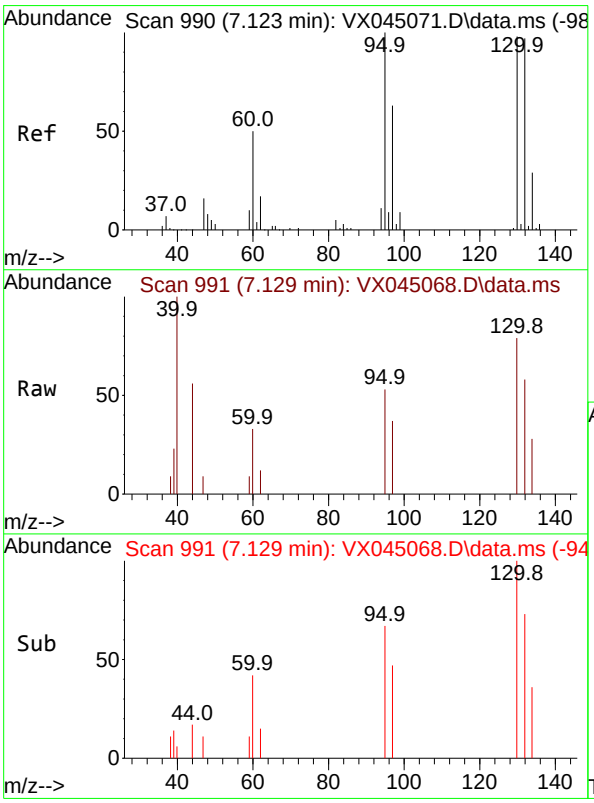
#43
Isopropyl Acetate
Concen: 0.767 ug/l
RT: 6.355 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2545

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.9	22.3
87	9.2	9.4	14.2#

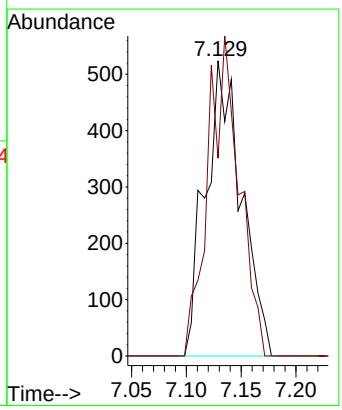


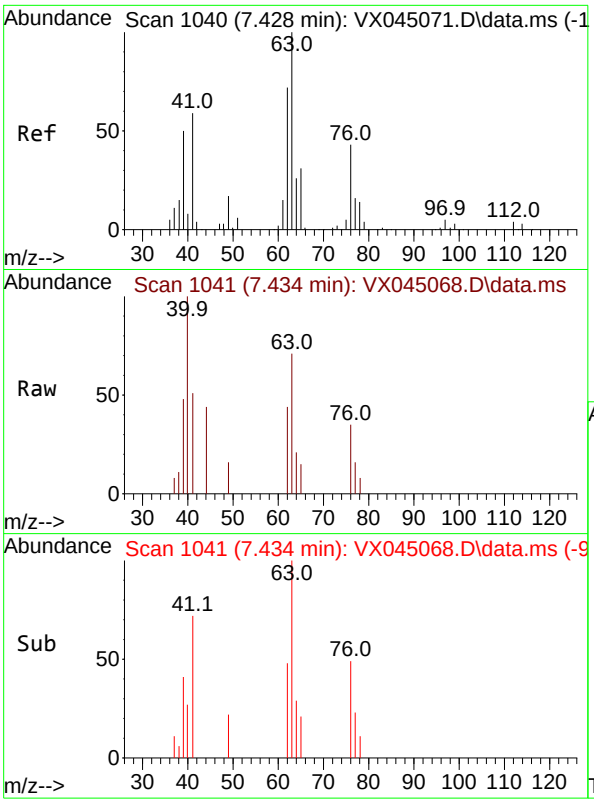


#44
Trichloroethene
Concen: 0.933 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:130 Resp: 1202

Ion	Ratio	Lower	Upper
130	100		
95	67.0	0.0	205.0



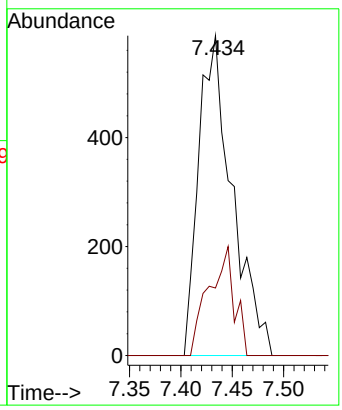


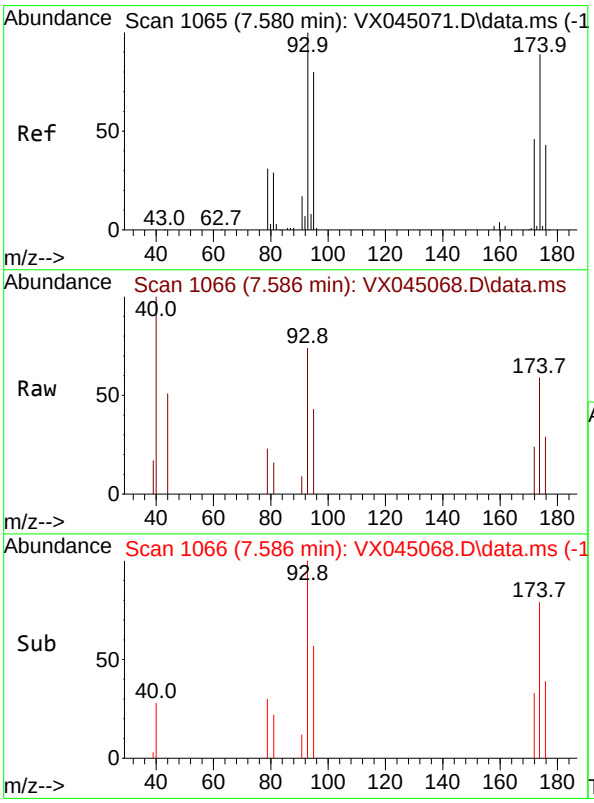
#45
1,2-Dichloropropane
Concen: 0.971 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1334

Ion	Ratio	Lower	Upper
63	100		
65	21.1	24.7	37.1#

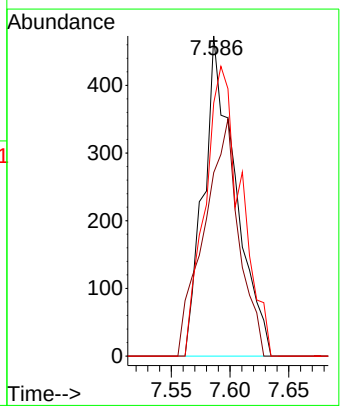


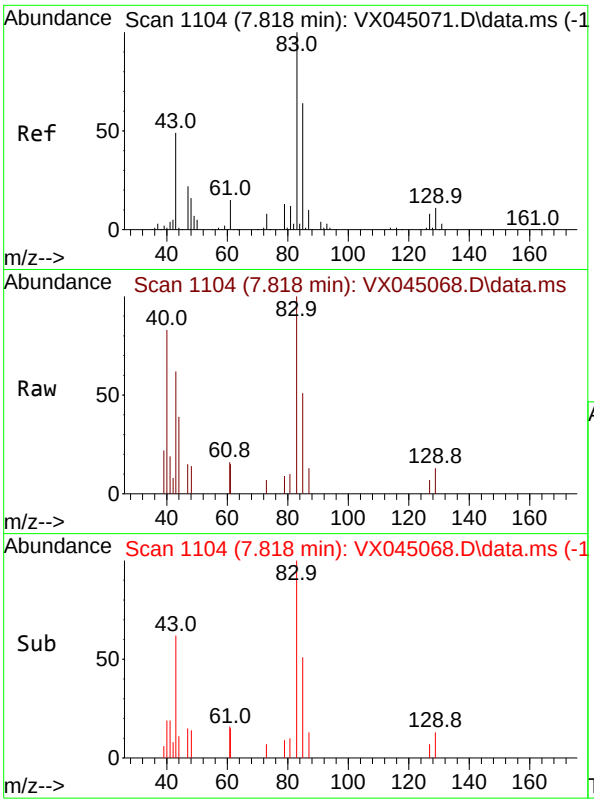


#46
Dibromomethane
Concen: 0.897 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 93 Resp: 891

Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.8	98.8
174	102.8	72.2	108.2



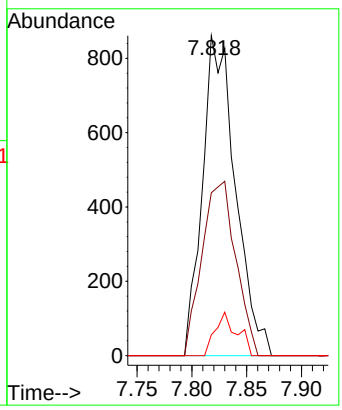


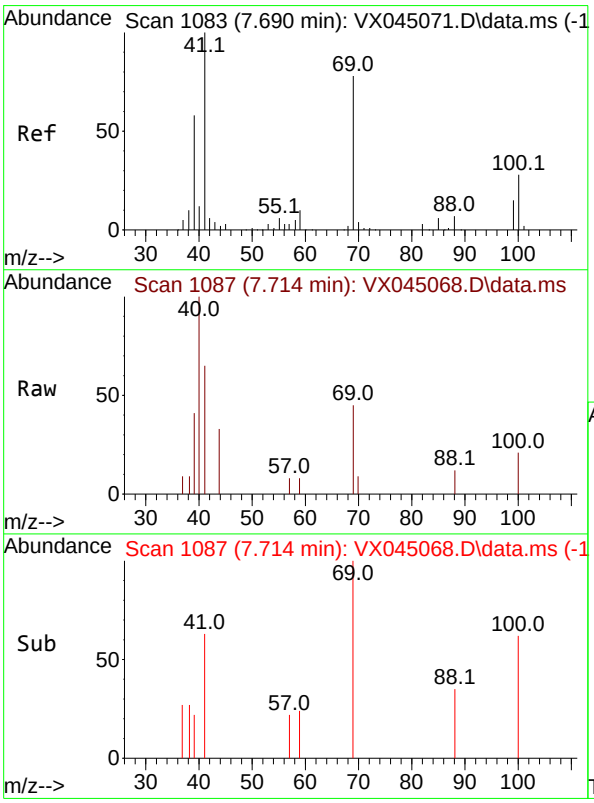
#47
Bromodichloromethane
Concen: 0.927 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1802

Ion	Ratio	Lower	Upper
83	100		
85	50.9	51.1	76.7#
127	6.5	6.4	9.6

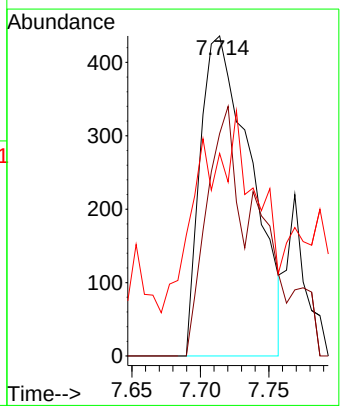


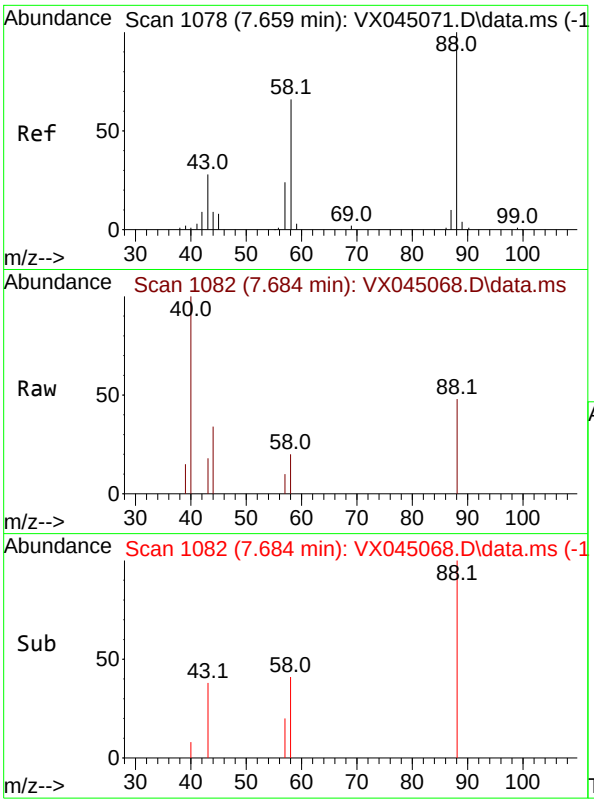


#48
Methyl methacrylate
Concen: 0.699 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 1125

Ion	Ratio	Lower	Upper
41	100		
69	48.9	63.0	94.6#
39	24.4	47.5	71.3#



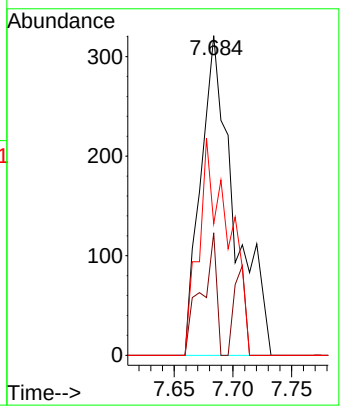


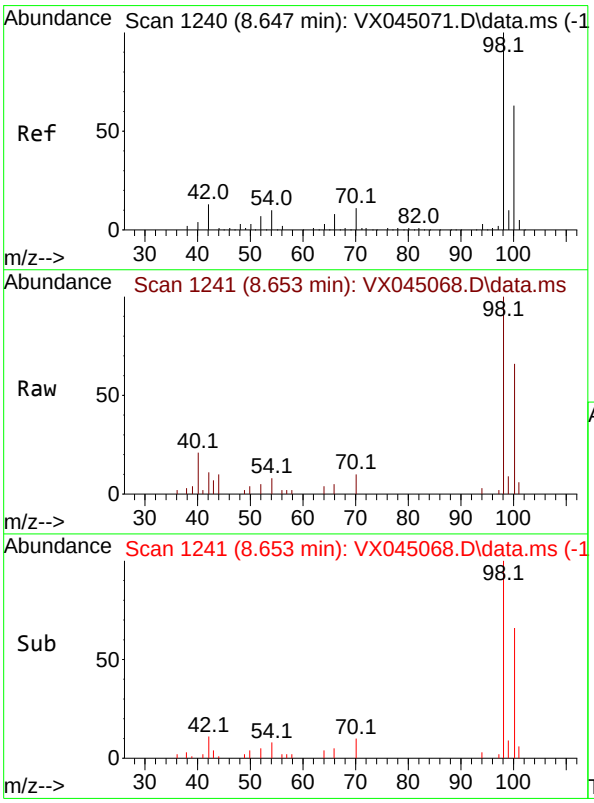
#49
1,4-Dioxane
Concen: 18.144 ug/l
RT: 7.684 min Scan# 1
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 639

Ion	Ratio	Lower	Upper
88	100		
43	17.2	28.7	43.1#
58	59.9	55.8	83.8

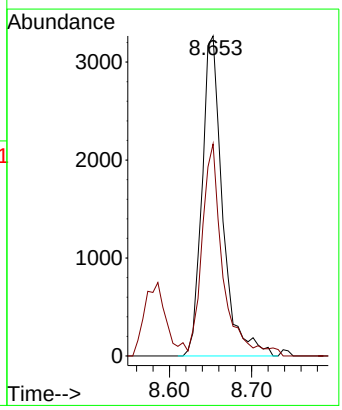


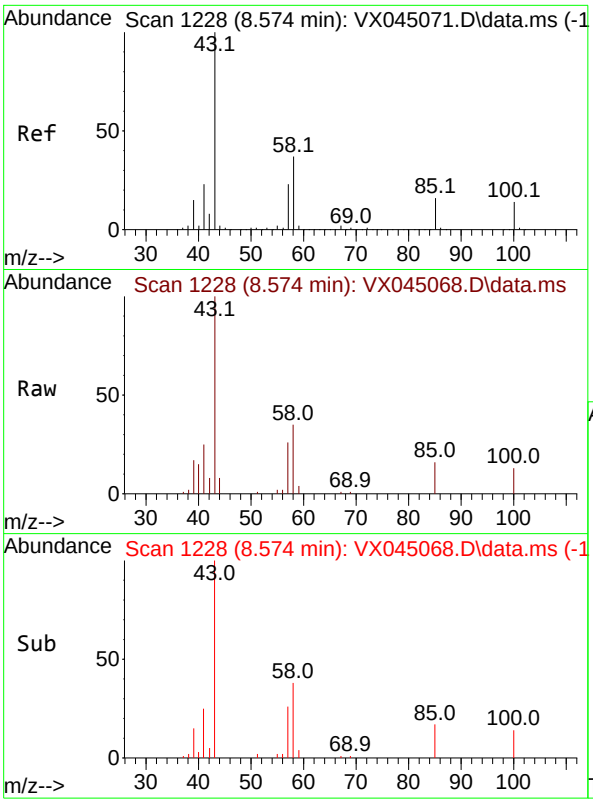


#50
Toluene-d8
Concen: 1.244 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 98 Resp: 5691

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.0	78.0



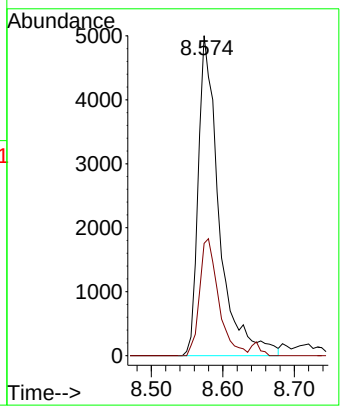


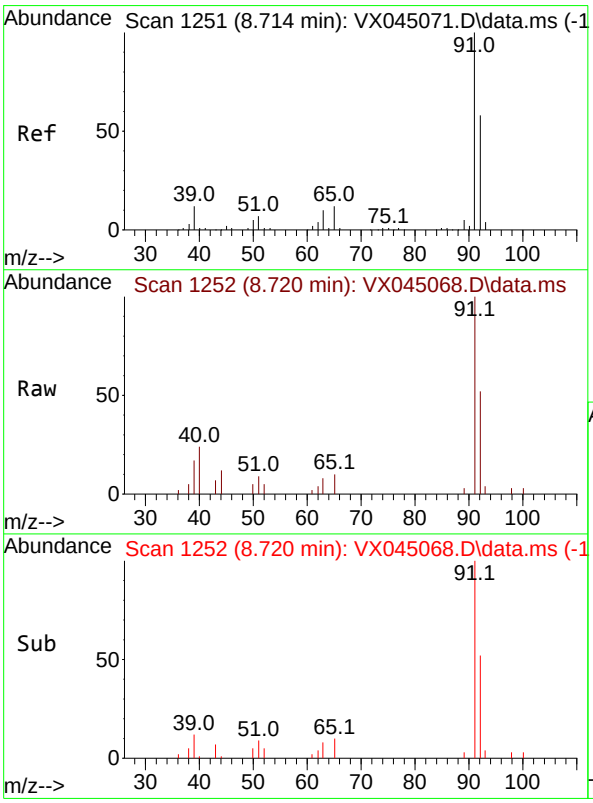
#51
4-Methyl-2-Pentanone
Concen: 4.567 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 10091

Ion	Ratio	Lower	Upper
43	100		
58	33.5	29.2	43.8

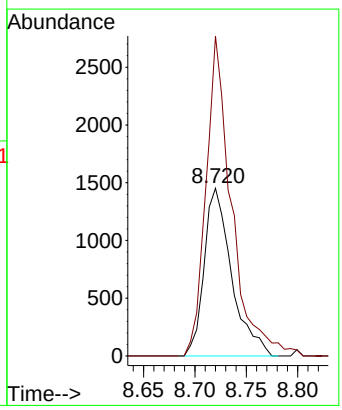


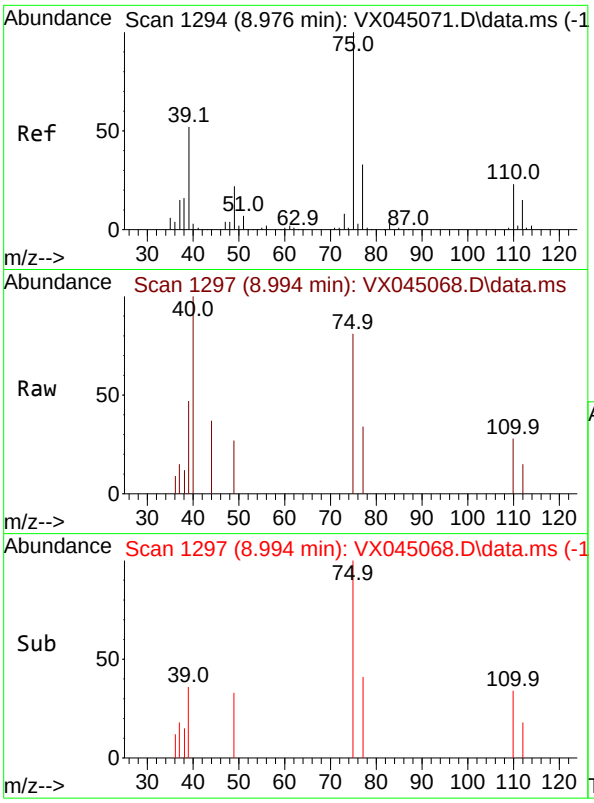


#52
Toluene
Concen: 0.841 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 92 Resp: 2700

Ion	Ratio	Lower	Upper
92	100		
91	177.7	138.9	208.3



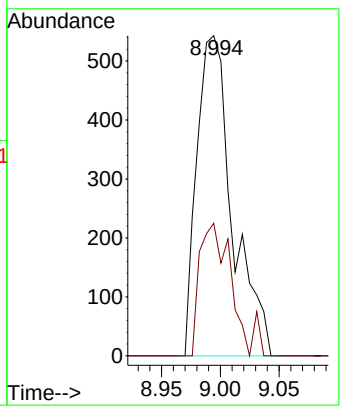


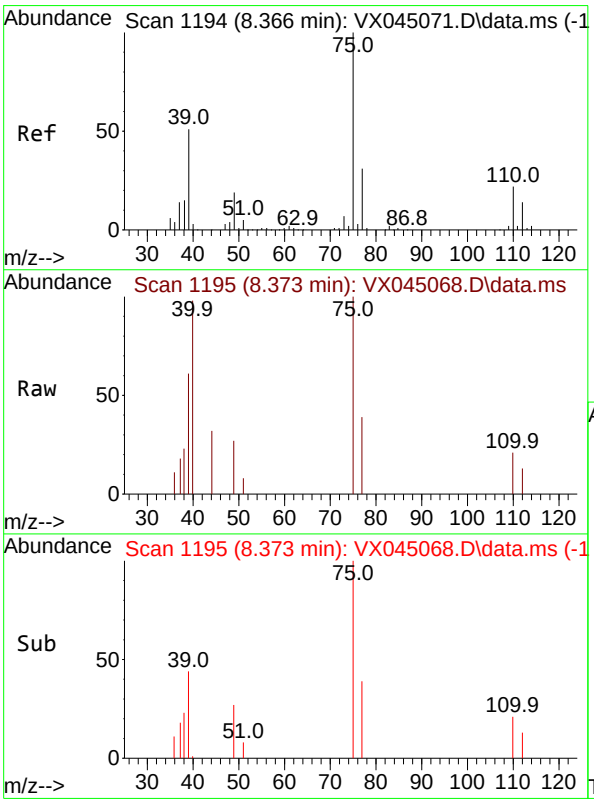
#53
t-1,3-Dichloropropene
Concen: 0.700 ug/l
RT: 8.994 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1147

Ion	Ratio	Lower	Upper
75	100		
77	41.4	26.5	39.7#

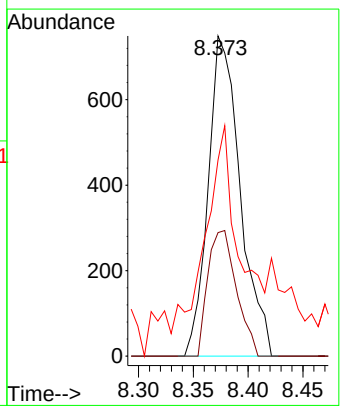


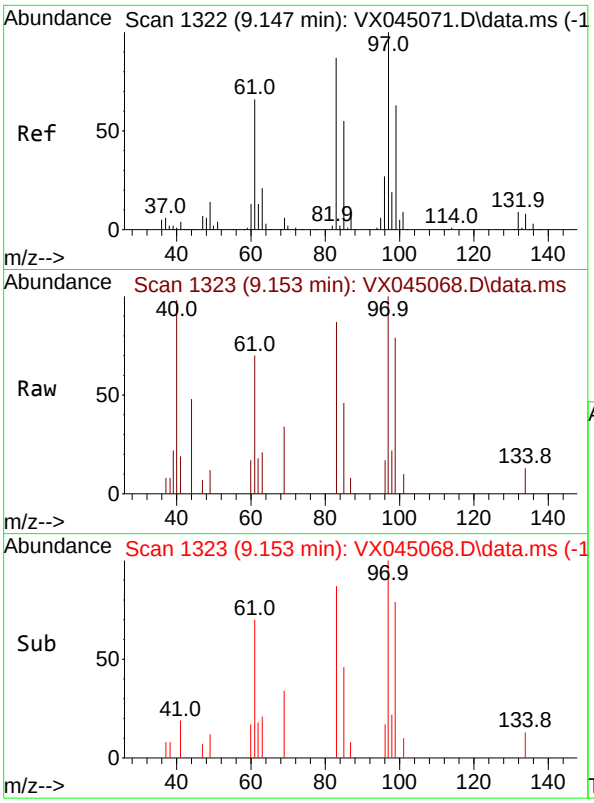


#54
cis-1,3-Dichloropropene
Concen: 0.804 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 1525

Ion	Ratio	Lower	Upper
75	100		
77	38.6	24.7	37.1#
39	45.1	40.7	61.1



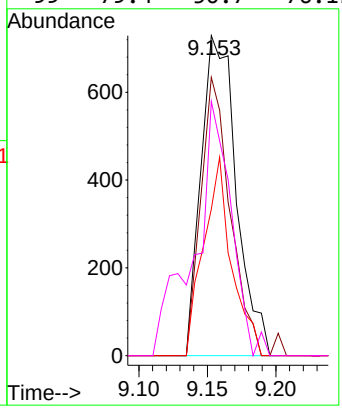


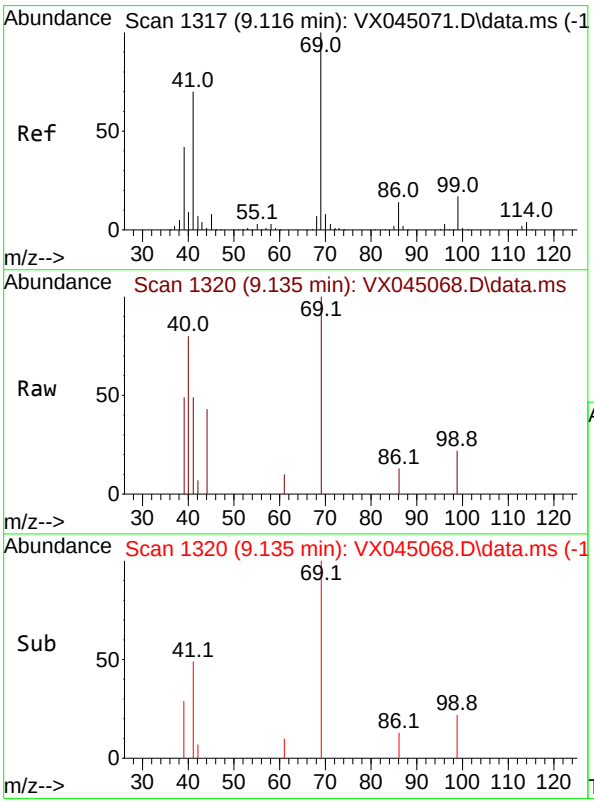
#55
1,1,2-Trichloroethane
Concen: 1.004 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1306

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.4	104.2
85	45.8	44.1	66.1
99	79.4	50.7	76.1#

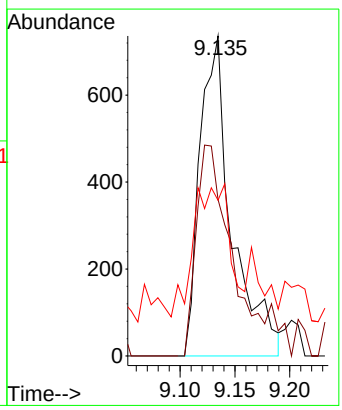


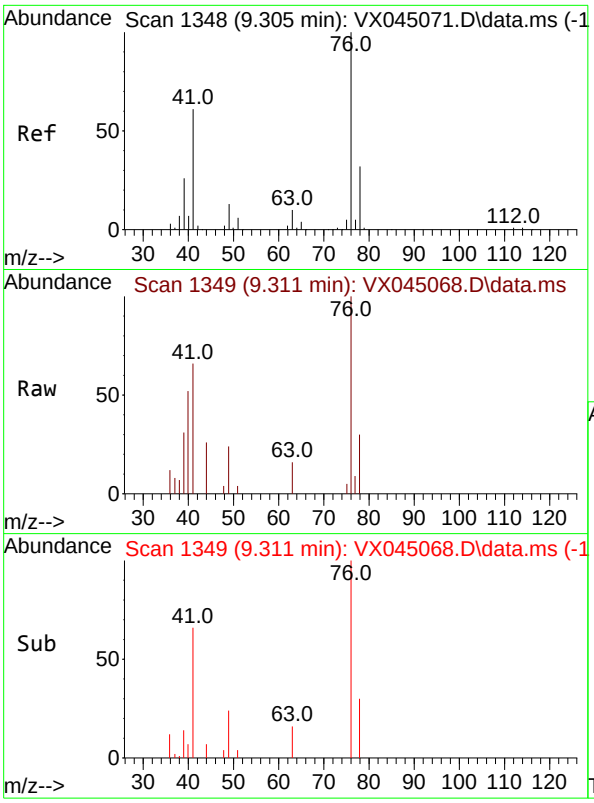


#56
Ethyl methacrylate
Concen: 0.748 ug/l
RT: 9.135 min Scan# 1320
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 69 Resp: 1494

Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	54.6	34.2	51.4#



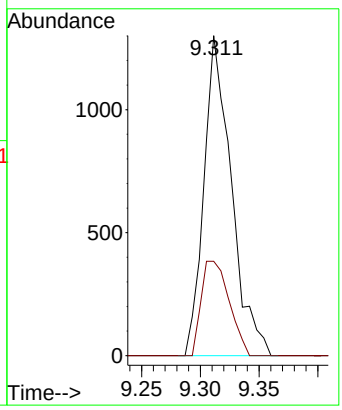


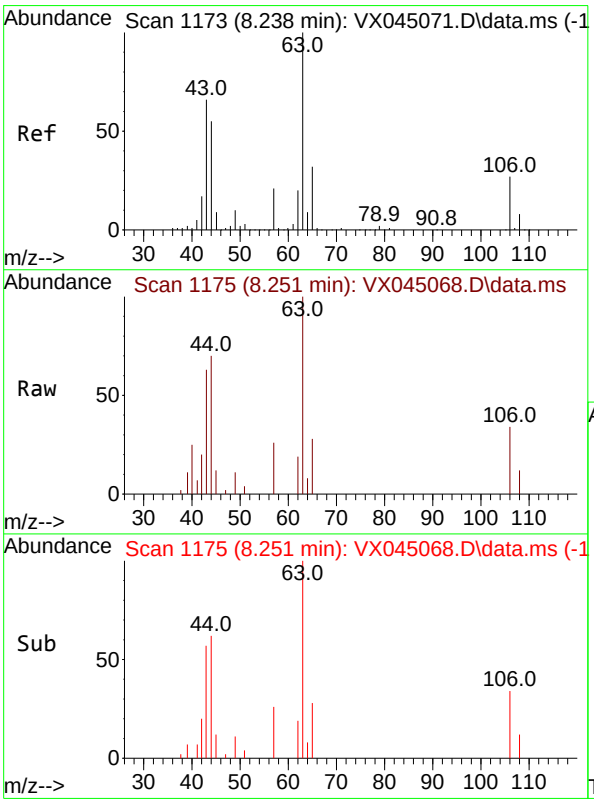
#57
1,3-Dichloropropane
Concen: 0.920 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2112

Ion	Ratio	Lower	Upper
76	100		
78	30.1	25.5	38.3

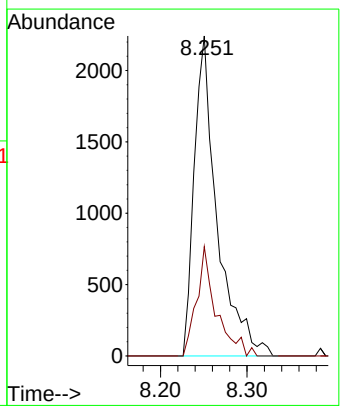


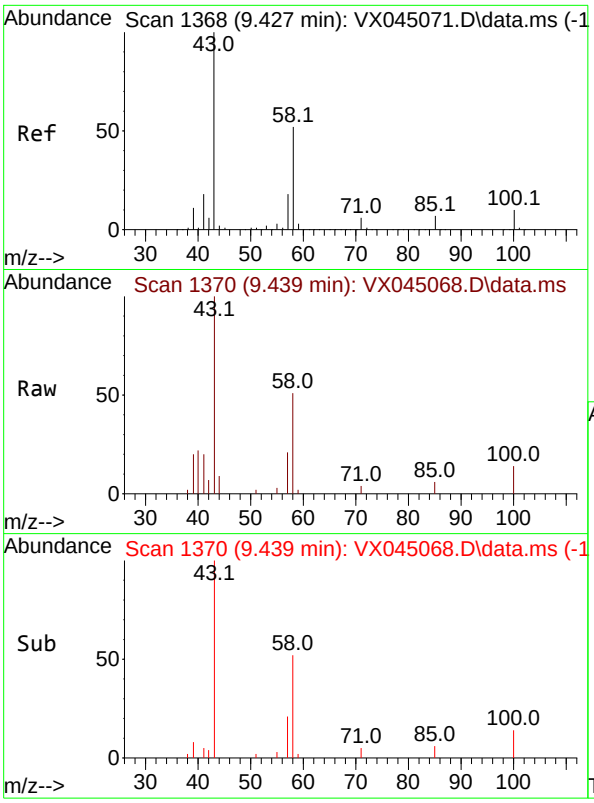


#58
2-Chloroethyl Vinyl ether
Concen: 4.320 ug/l
RT: 8.251 min Scan# 1175
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 4115

Ion	Ratio	Lower	Upper
63	100		
106	29.2	21.5	32.3



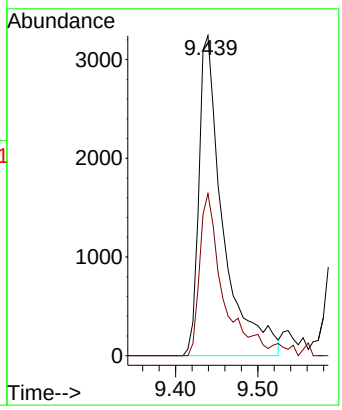


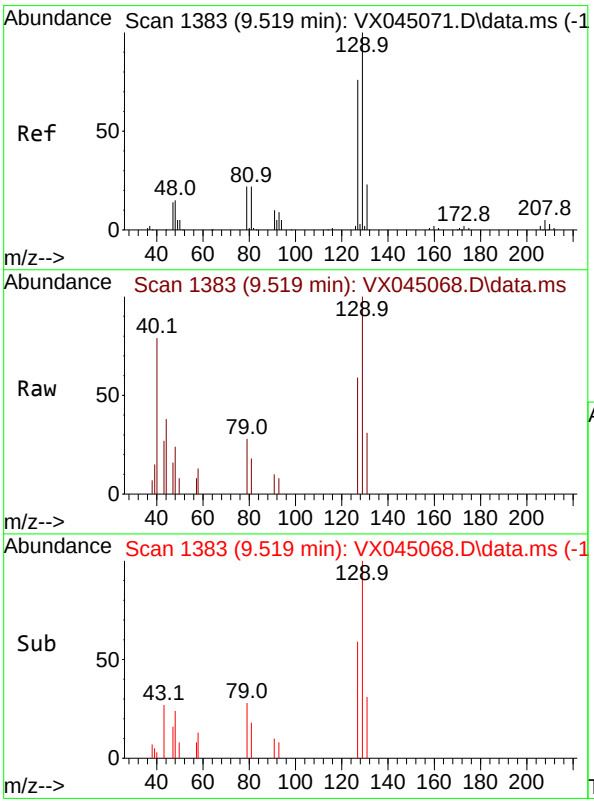
#59
2-Hexanone
Concen: 4.153 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 6582

Ion	Ratio	Lower	Upper
43	100		
58	48.7	25.9	77.6

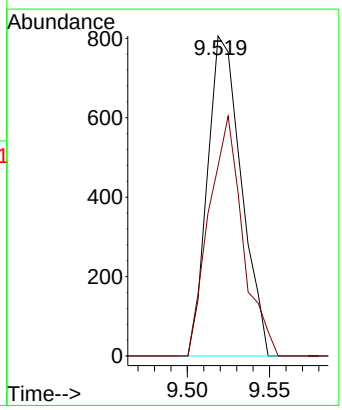


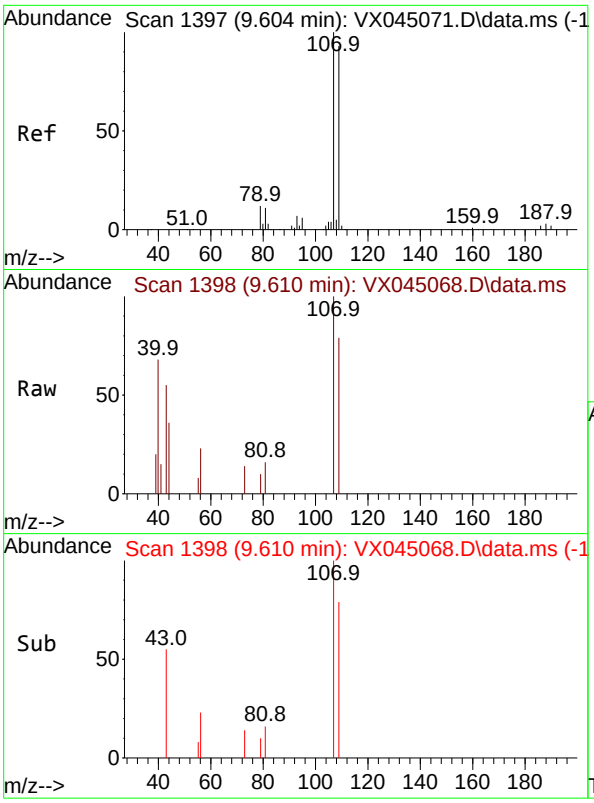


#60
Dibromochloromethane
Concen: 0.835 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:129 Resp: 1152

Ion	Ratio	Lower	Upper
129	100		
127	75.2	38.5	115.5



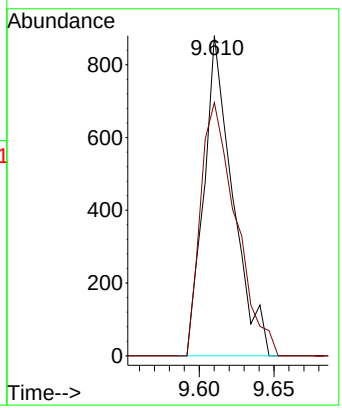


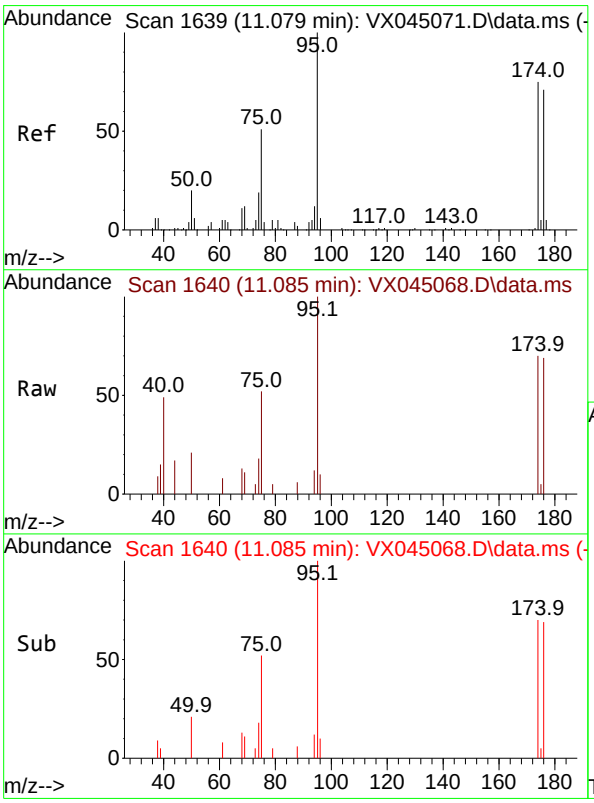
#61
1,2-Dibromoethane
Concen: 0.890 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 1174

Ion	Ratio	Lower	Upper
107	100		
109	97.6	76.1	114.1

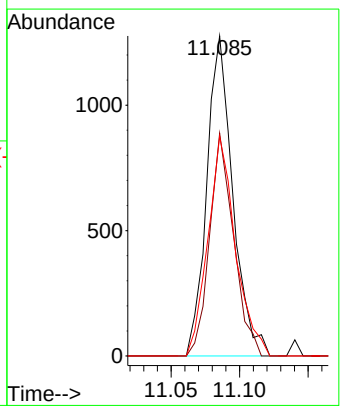


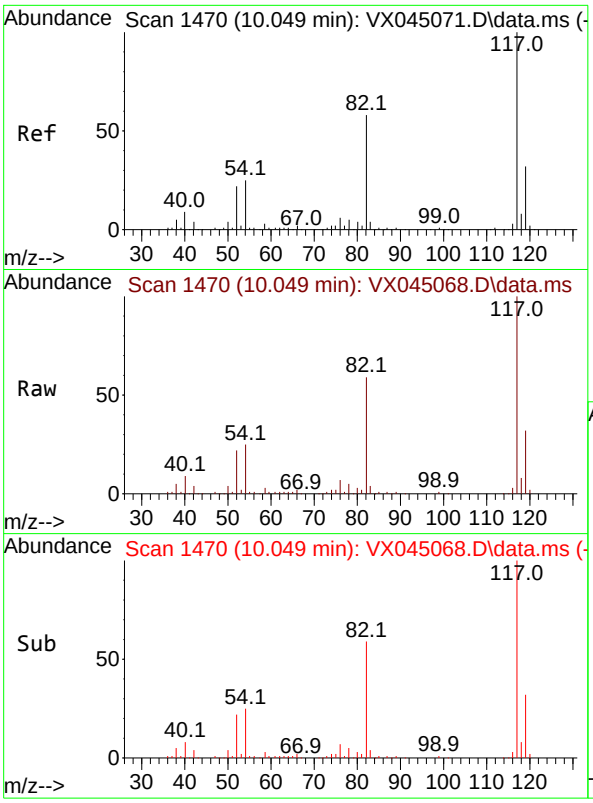


#62
4-Bromofluorobenzene
Concen: 1.112 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 95 Resp: 1685

Ion	Ratio	Lower	Upper
95	100		
174	64.2	0.0	148.2
176	72.7	0.0	141.4



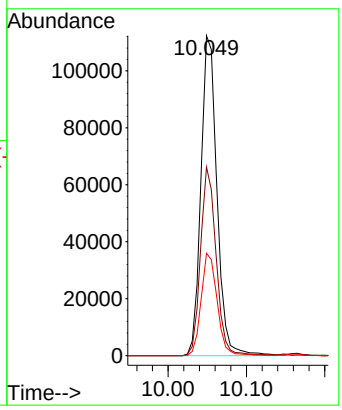


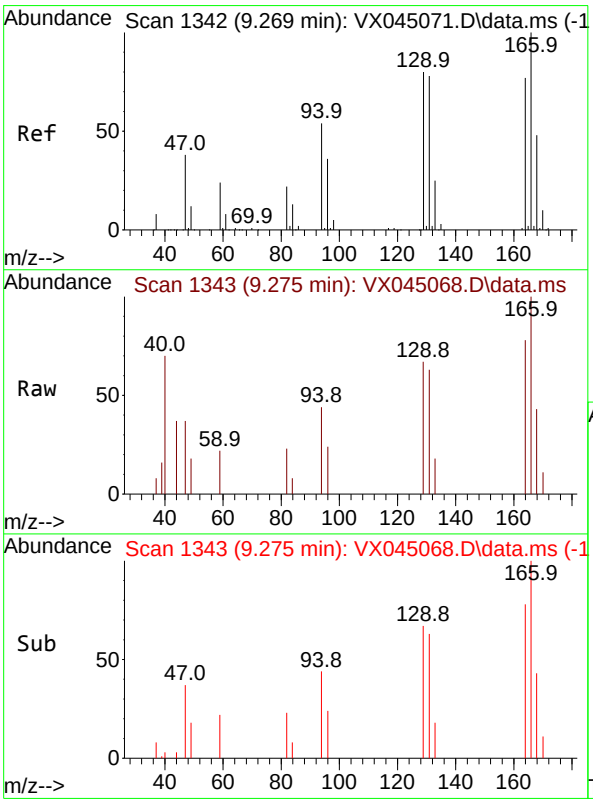
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 159886

Ion	Ratio	Lower	Upper
117	100		
82	59.0	46.3	69.5
119	32.0	25.7	38.5

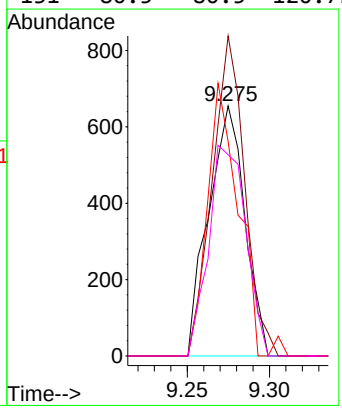


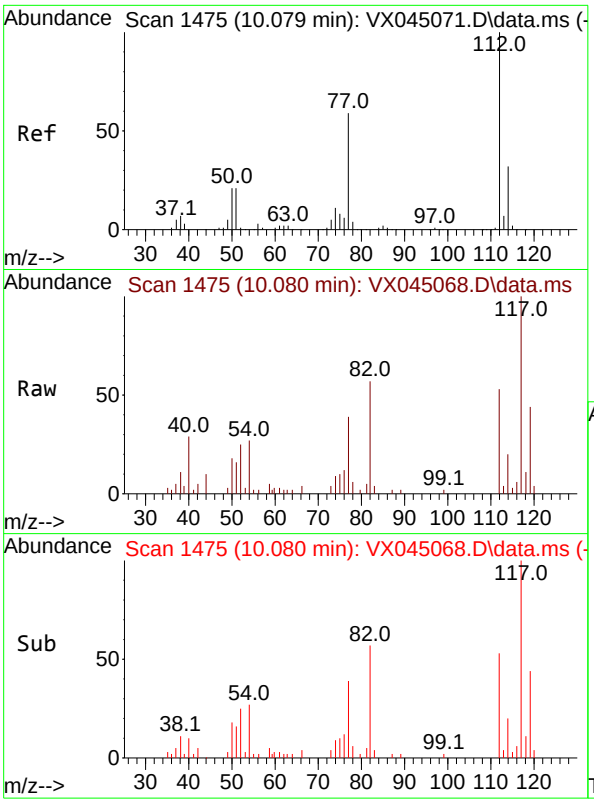


#64
Tetrachloroethene
Concen: 0.986 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:164 Resp: 1006

Ion	Ratio	Lower	Upper
164	100		
166	127.9	103.6	155.4
129	85.8	82.7	124.1
131	80.5	80.5	120.7#



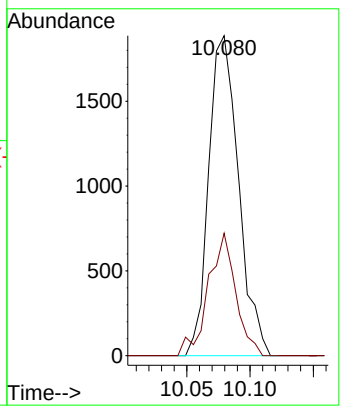


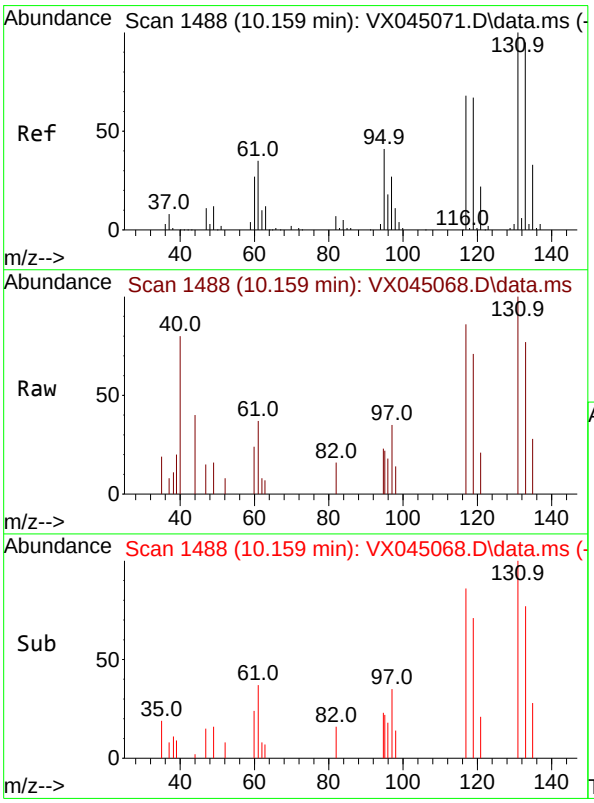
#65
Chlorobenzene
Concen: 0.908 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 3094

Ion	Ratio	Lower	Upper
112	100		
114	38.3	26.0	39.0

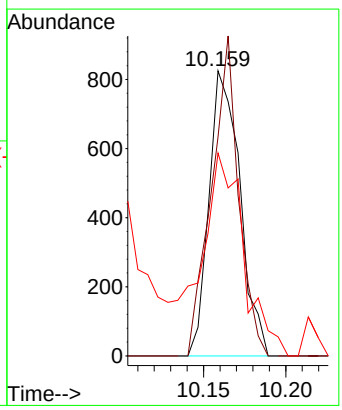


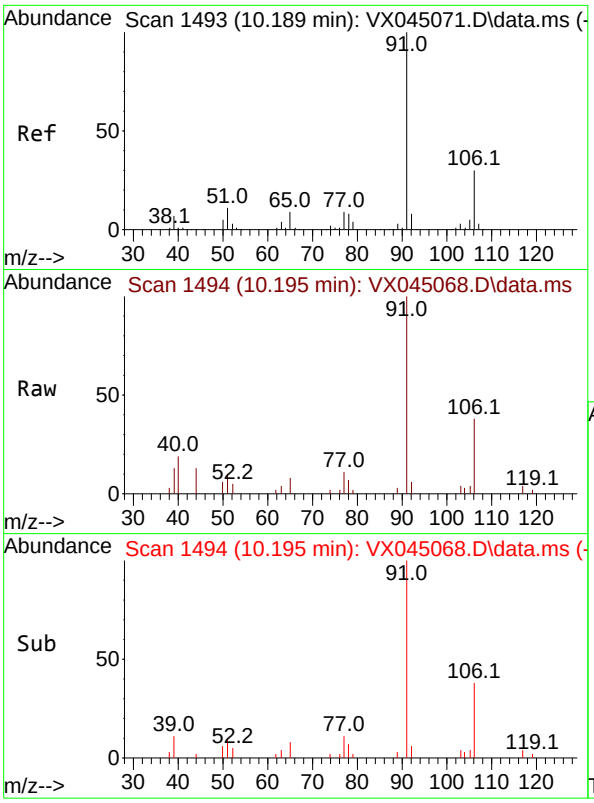


#66
1,1,1,2-Tetrachloroethane
Concen: 0.978 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:131 Resp: 1078

Ion	Ratio	Lower	Upper
131	100		
133	98.6	48.6	145.9
119	0.0	33.9	101.7#



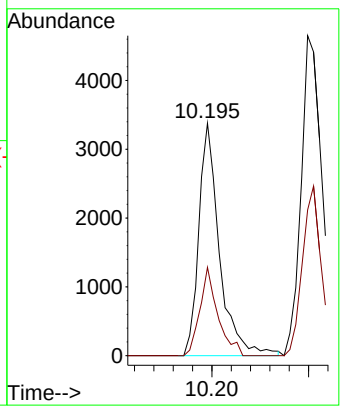


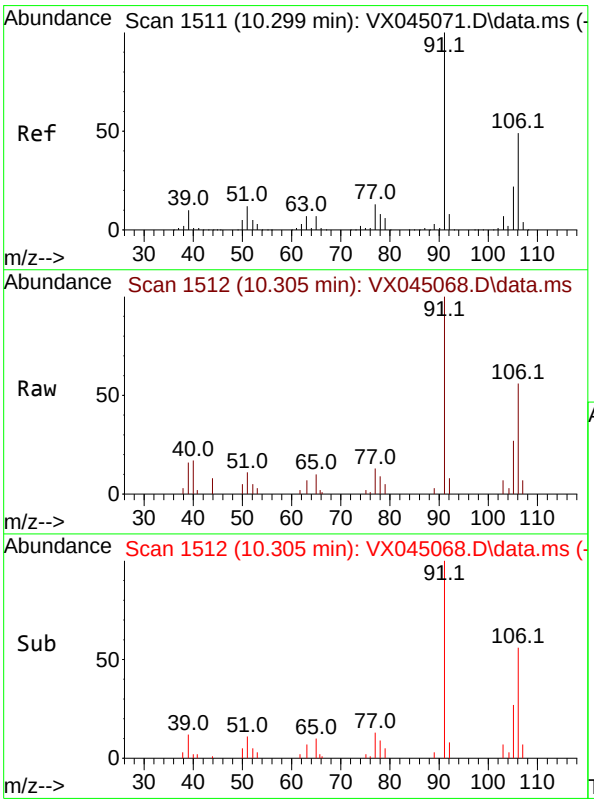
#67
Ethyl Benzene
Concen: 0.846 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5008

Ion	Ratio	Lower	Upper
91	100		
106	38.0	23.9	35.9#

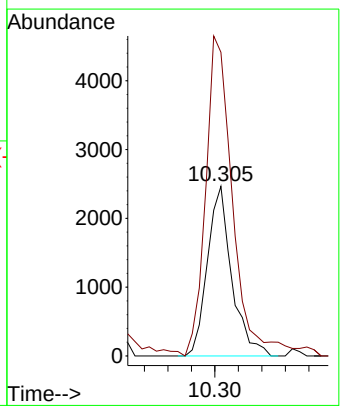


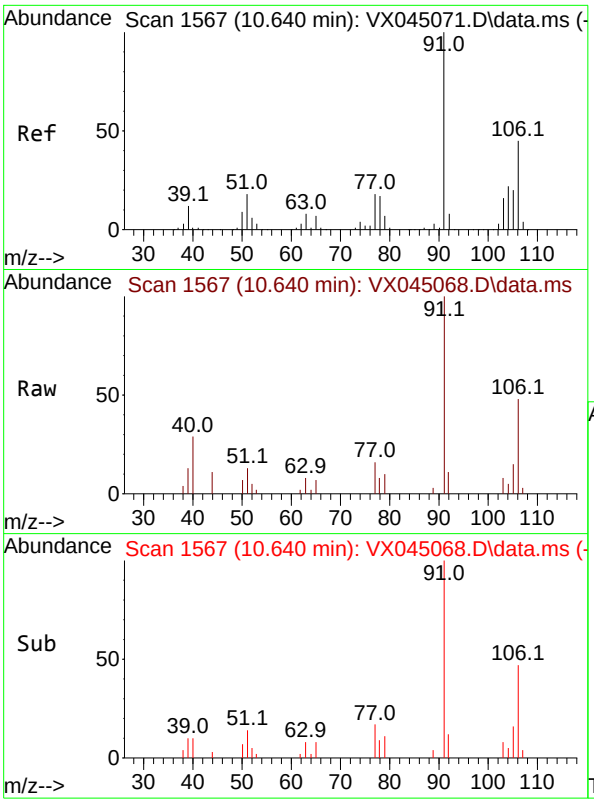


#68
m/p-Xylenes
Concen: 1.630 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:106 Resp: 3552

Ion	Ratio	Lower	Upper
106	100		
91	211.2	165.4	248.0



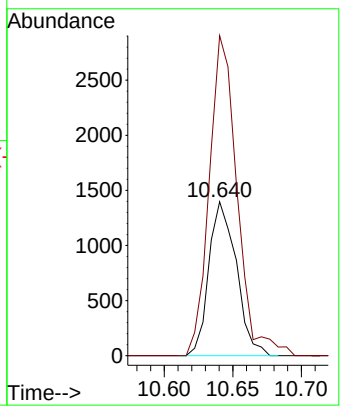


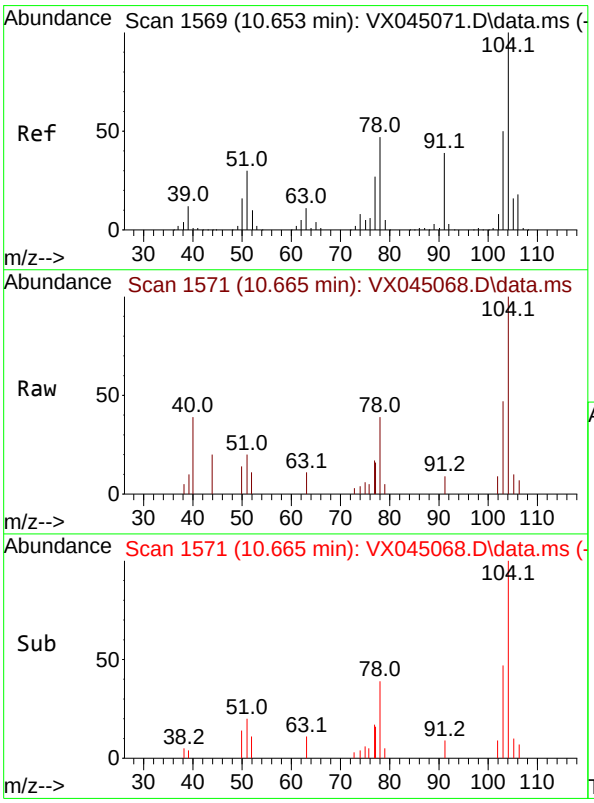
#69
o-Xylene
Concen: 0.891 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 1949

Ion	Ratio	Lower	Upper
106	100		
91	211.0	109.9	329.6

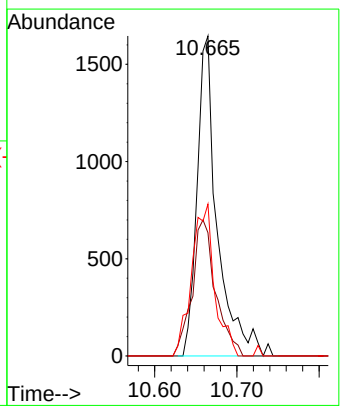


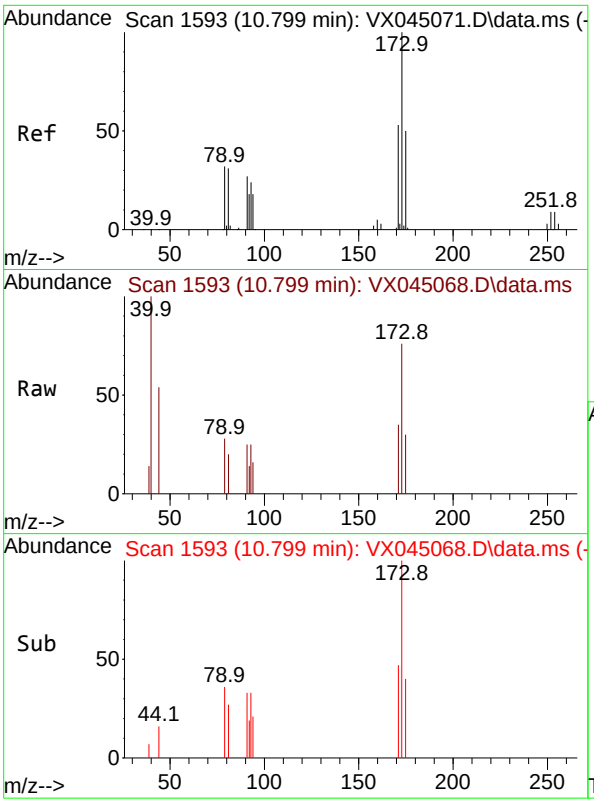


#70
Styrene
Concen: 0.802 ug/l
RT: 10.665 min Scan# 1571
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:104 Resp: 2810

Ion	Ratio	Lower	Upper
104	100		
78	49.7	42.2	63.4
103	53.6	43.8	65.8



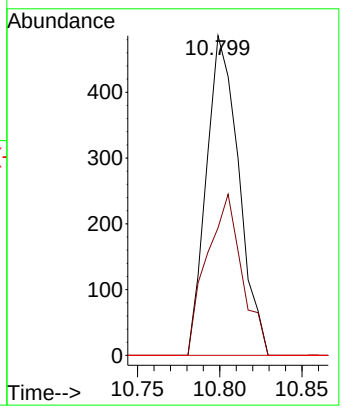


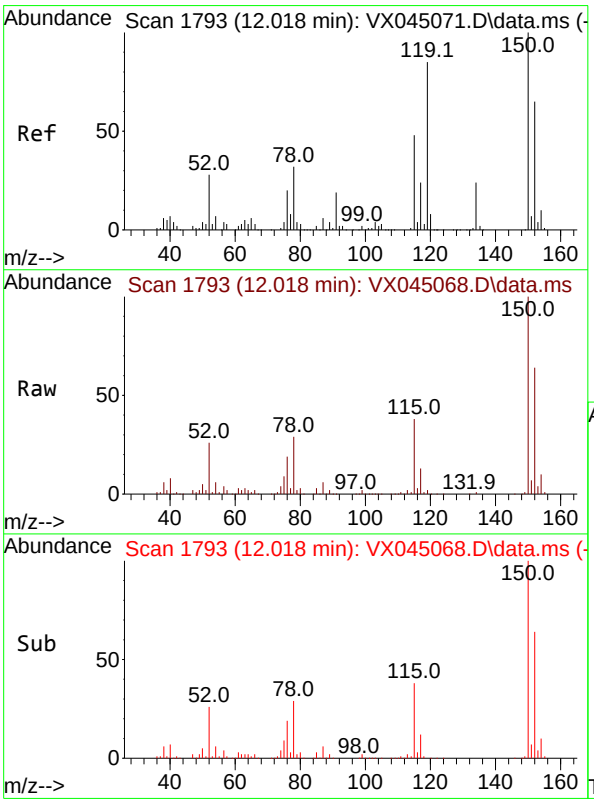
#71
Bromoform
Concen: 0.768 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 667

Ion	Ratio	Lower	Upper
173	100		
175	54.7	24.6	73.6
254	0.0	0.0	0.0

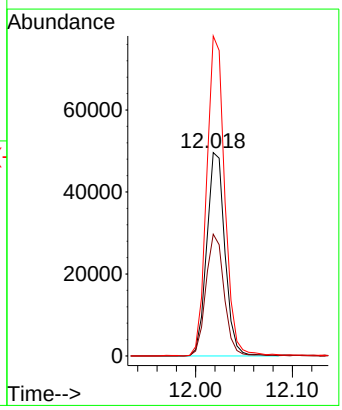


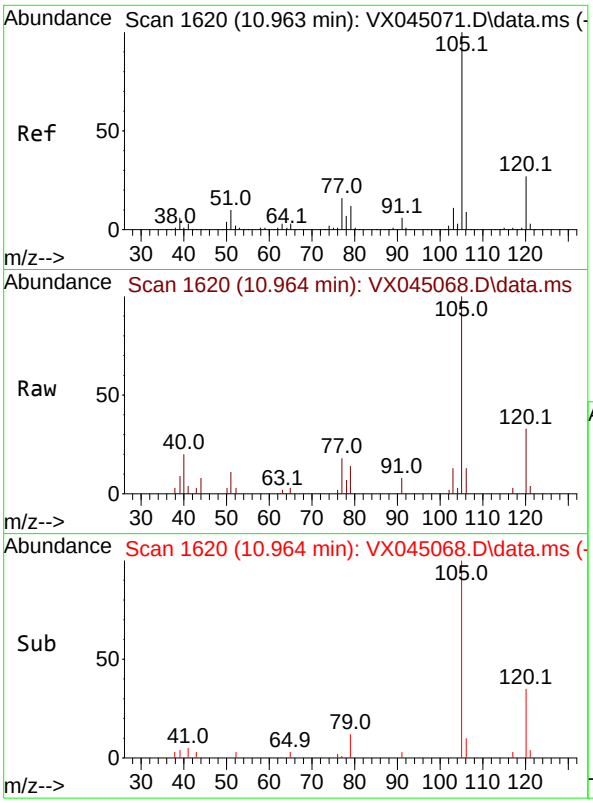


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:152 Resp: 64845

Ion	Ratio	Lower	Upper
152	100		
115	60.3	44.2	132.6
150	157.1	0.0	349.0



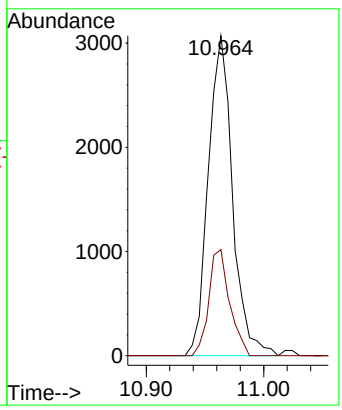


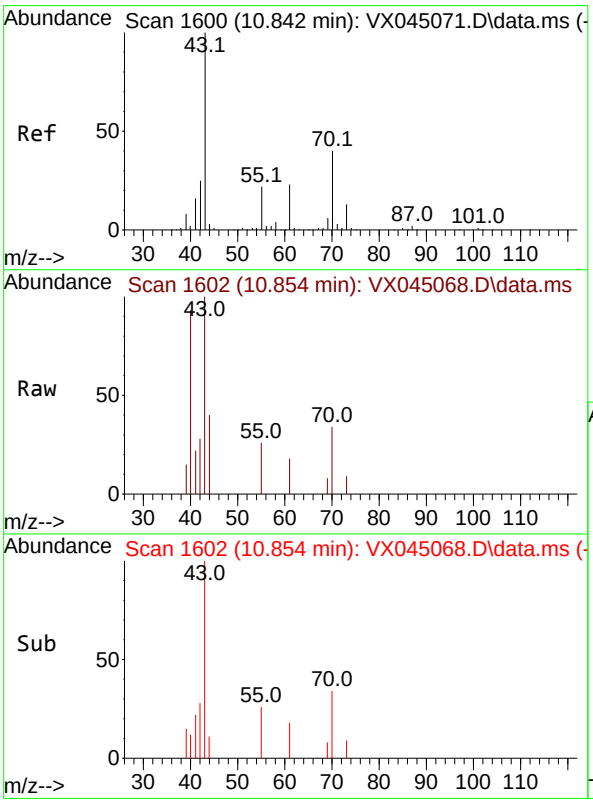
#73
Isopropylbenzene
Concen: 0.858 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 4405

Ion	Ratio	Lower	Upper
105	100		
120	28.5	13.2	39.5

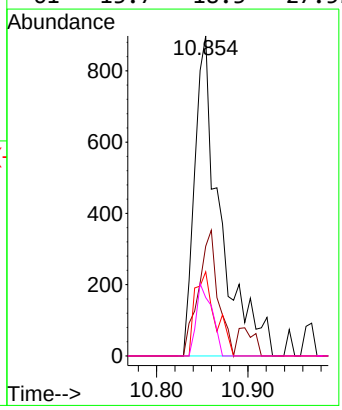


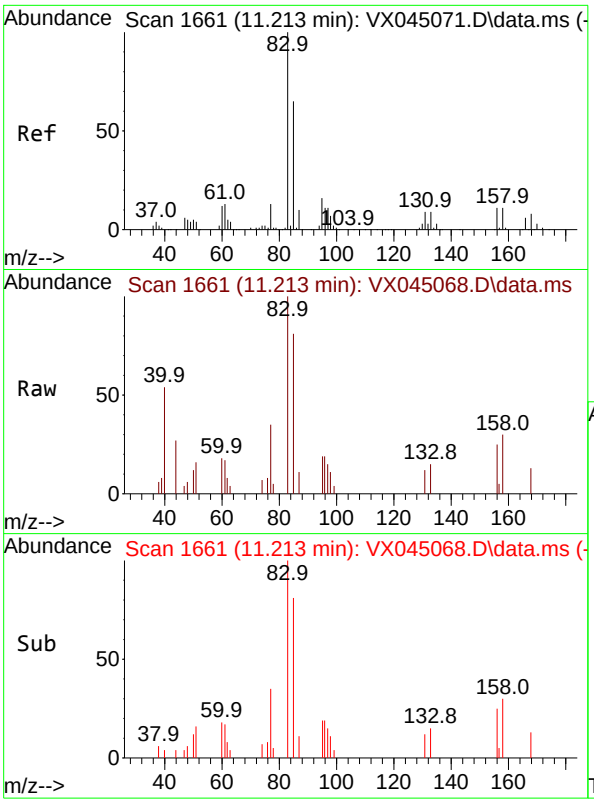


#74
N-amyl acetate
Concen: 0.732 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 1750

Ion	Ratio	Lower	Upper
43	100		
70	30.1	31.8	47.6#
55	20.9	18.3	27.5
61	13.7	18.3	27.5#



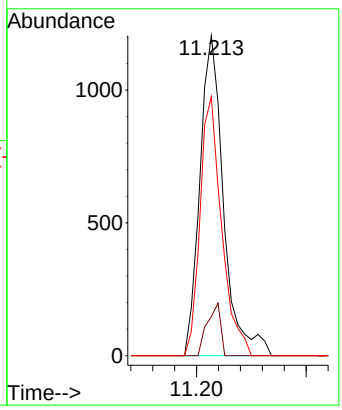


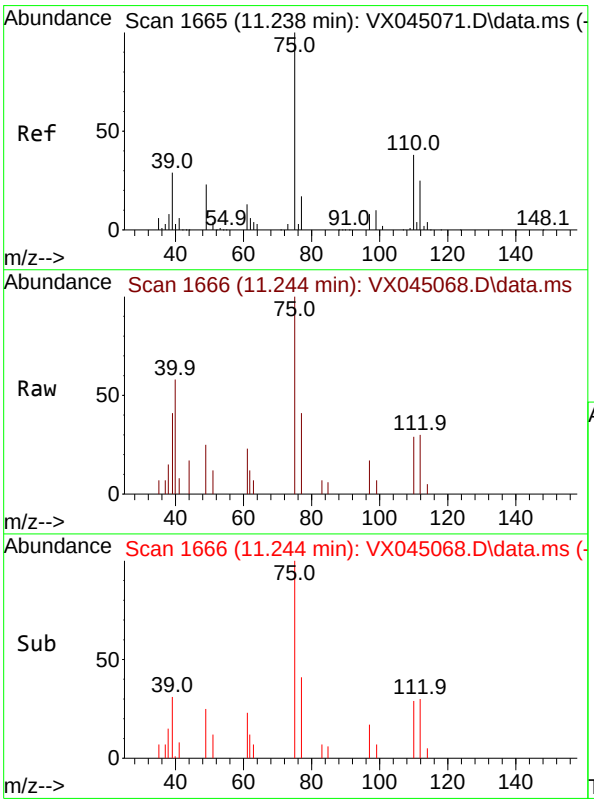
#75
1,1,2,2-Tetrachloroethane
Concen: 0.954 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1809

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	73.7	31.7	95.1

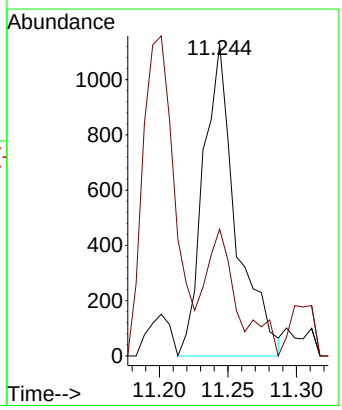


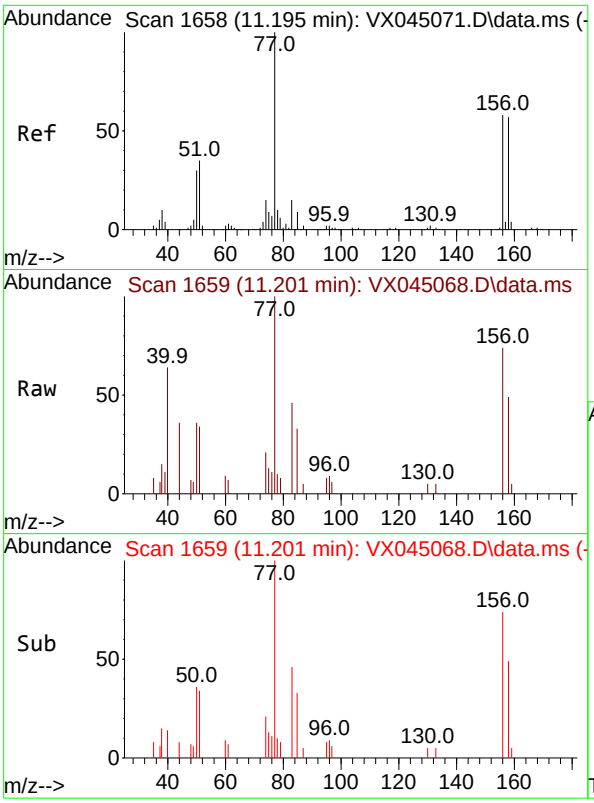


#76
1,2,3-Trichloropropane
Concen: 1.246 ug/l
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 1878

Ion	Ratio	Lower	Upper
75	100		
77	32.6	20.7	62.1



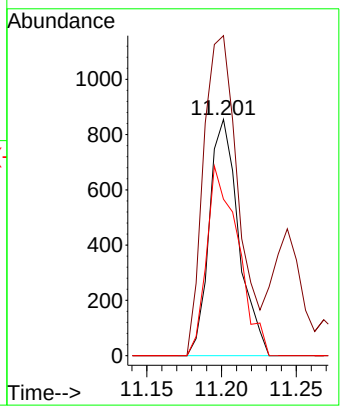


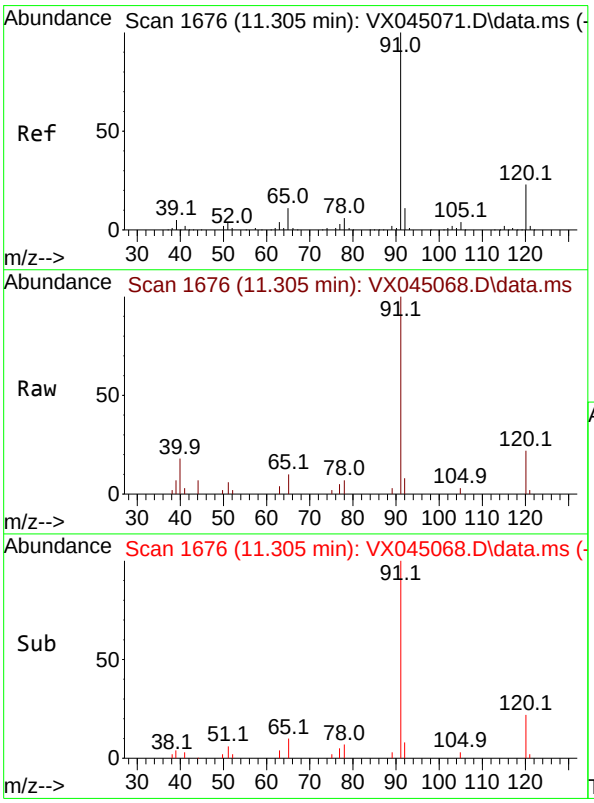
#77
Bromobenzene
Concen: 0.972 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1166

Ion	Ratio	Lower	Upper
156	100		
77	159.8	85.8	257.4
158	86.2	48.4	145.2

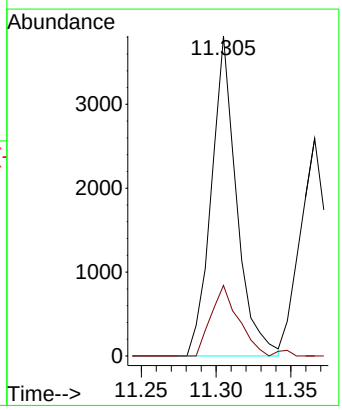


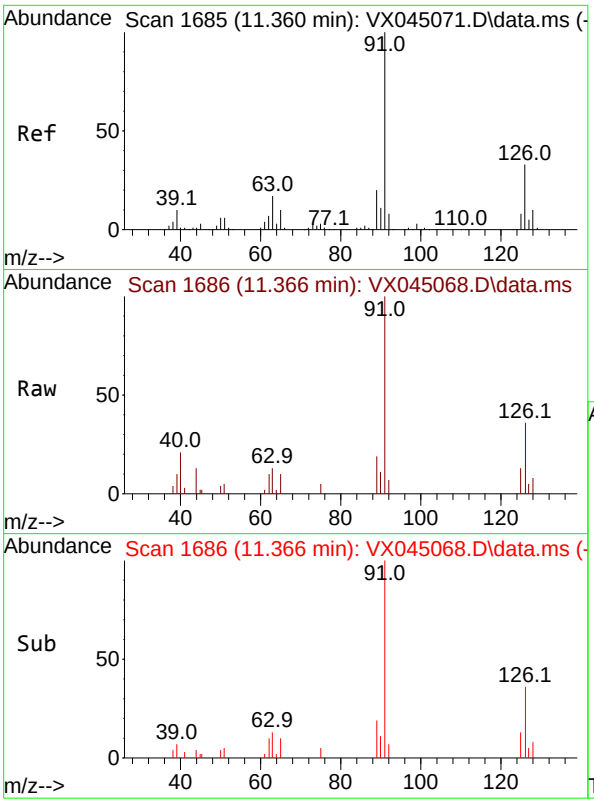


#78
n-propylbenzene
Concen: 0.773 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 4475

Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.2	33.6



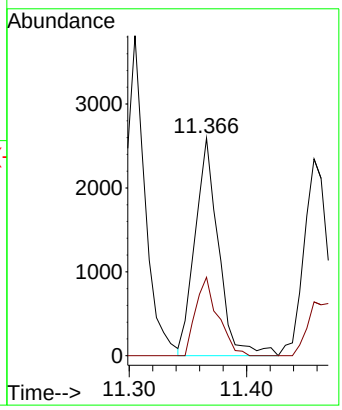


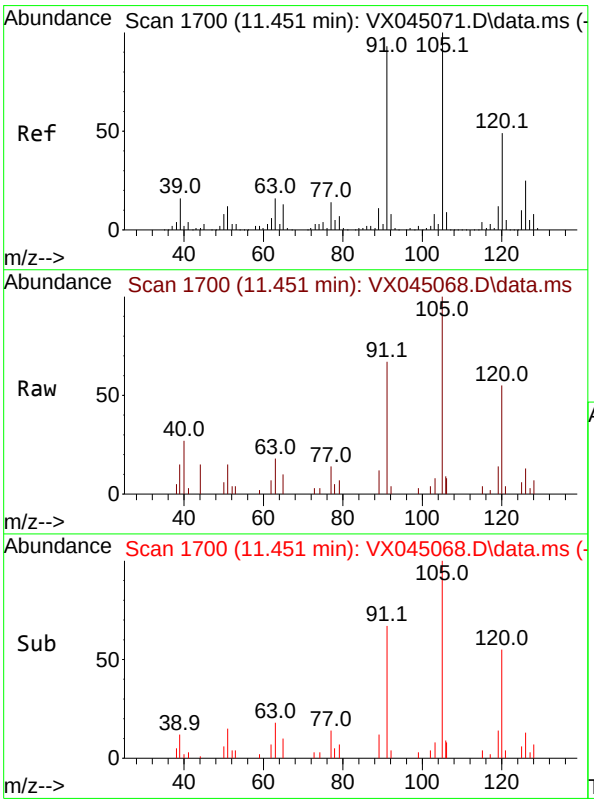
#79
2-Chlorotoluene
Concen: 0.986 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 3616

Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.4	49.4

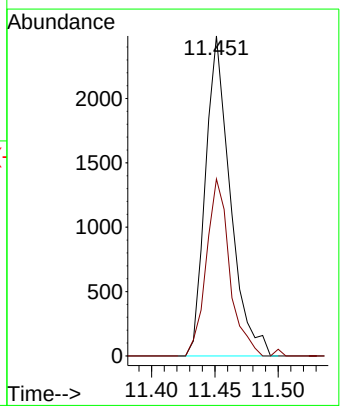


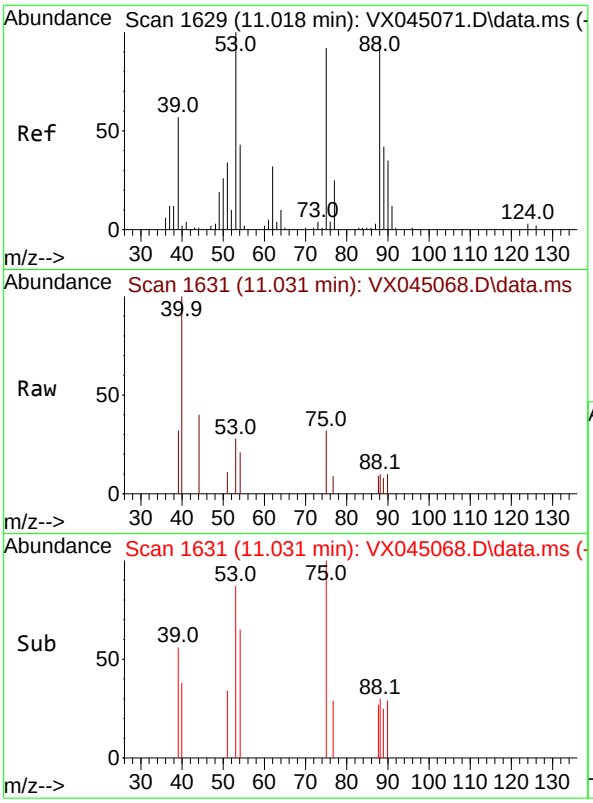


#80
1,3,5-Trimethylbenzene
Concen: 0.815 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 3386

Ion	Ratio	Lower	Upper
105	100		
120	52.2	24.1	72.2



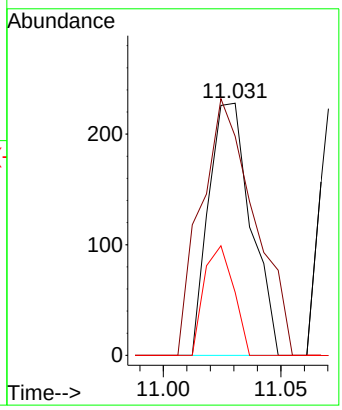


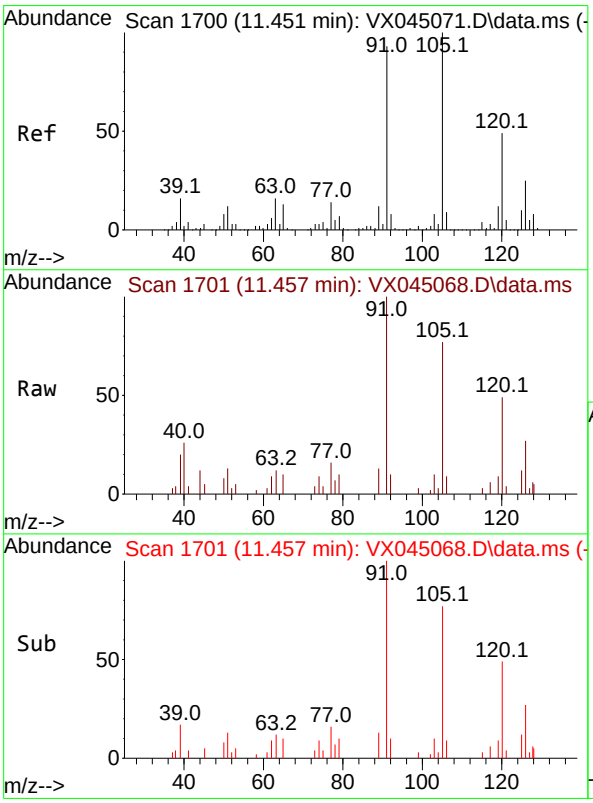
#81
trans-1,4-Dichloro-2-butene
Concen: 0.646 ug/l
RT: 11.031 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 285

Ion	Ratio	Lower	Upper
75	100		
53	128.8	88.5	132.7
89	30.5	36.2	54.4#

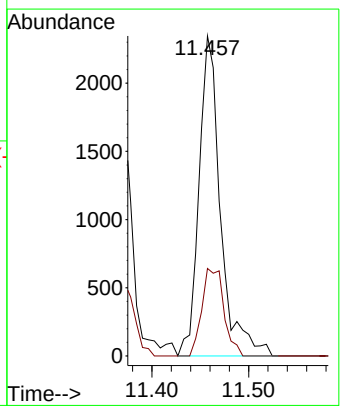


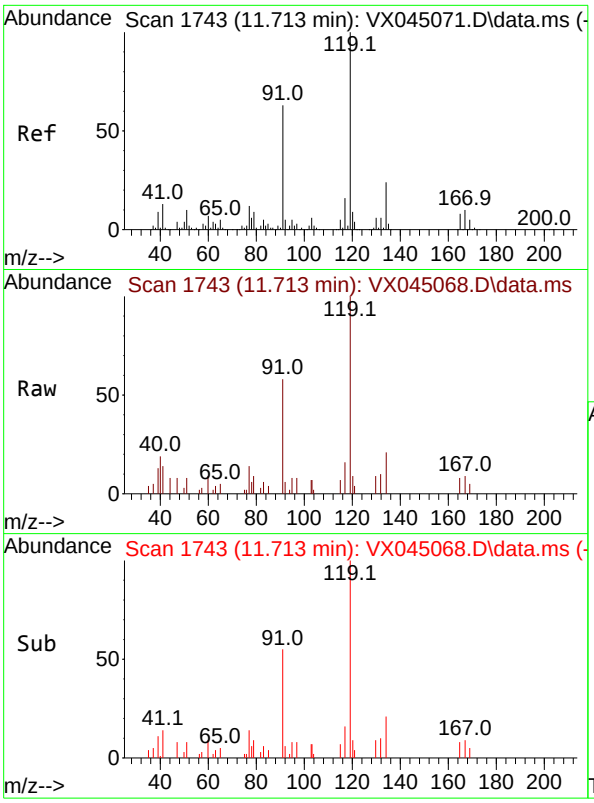


#82
4-Chlorotoluene
Concen: 0.904 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 3631

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.1	42.4



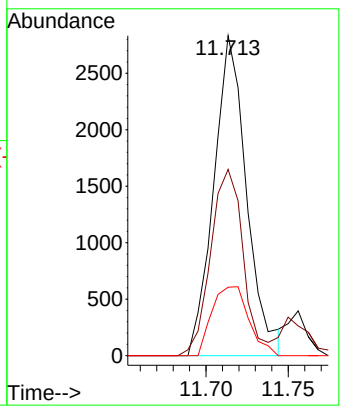


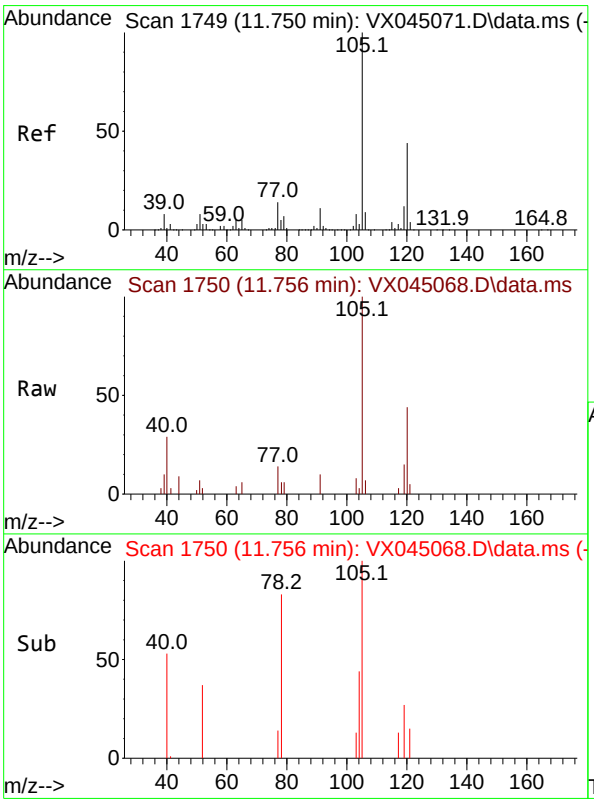
#83
tert-Butylbenzene
Concen: 0.929 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 3928

Ion	Ratio	Lower	Upper
119	100		
91	57.7	30.7	92.1
134	24.2	11.7	35.0

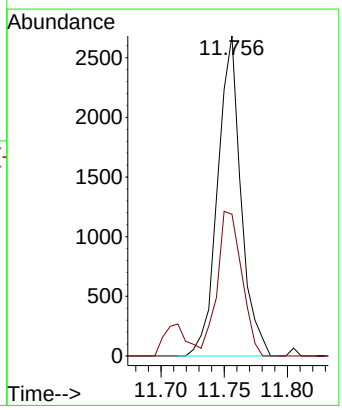


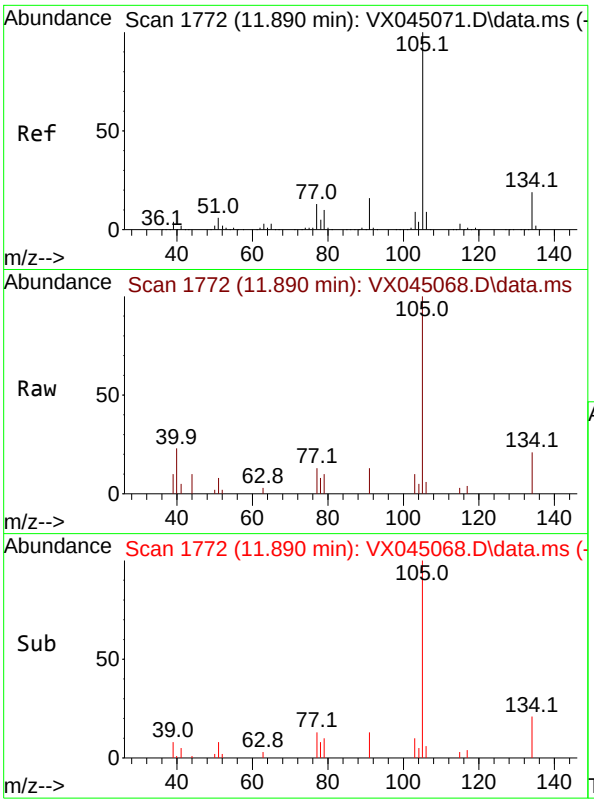


#84
1,2,4-Trimethylbenzene
Concen: 0.827 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 3432

Ion	Ratio	Lower	Upper
105	100		
120	47.5	22.1	66.1



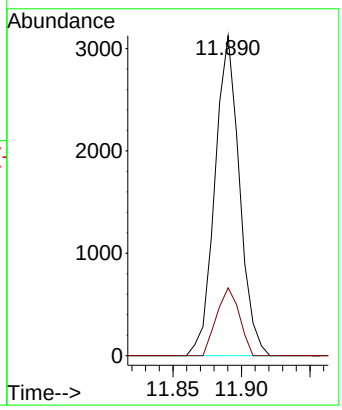


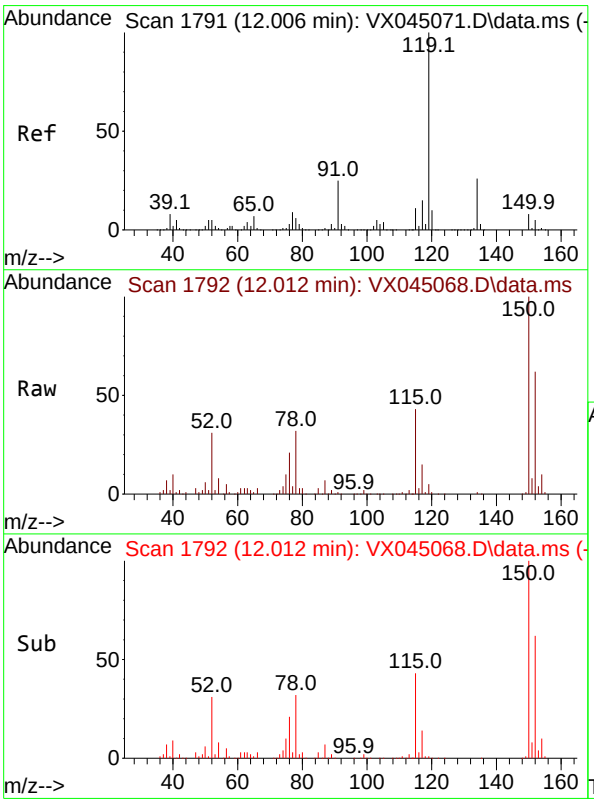
#85
sec-Butylbenzene
Concen: 0.752 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 3891

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.4

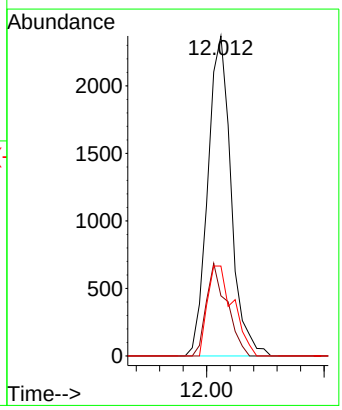


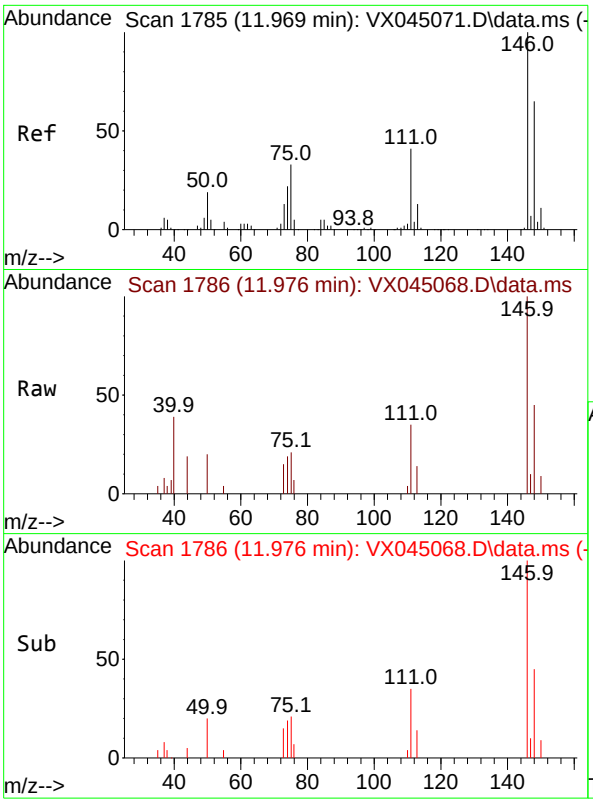


#86
p-Isopropyltoluene
Concen: 0.797 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:119 Resp: 3257

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.6
91	30.9	12.7	38.0



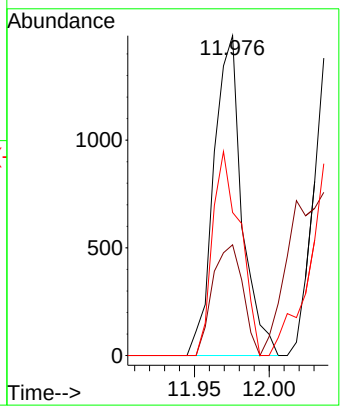


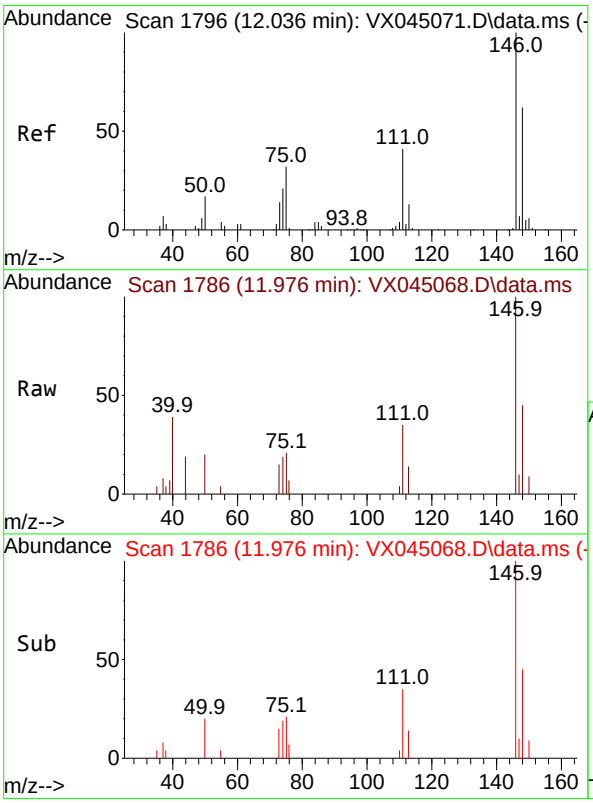
#87
1,3-Dichlorobenzene
Concen: 0.913 ug/l
RT: 11.976 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 1948

Ion	Ratio	Lower	Upper
146	100		
111	37.1	21.1	63.4
148	62.4	31.9	95.7

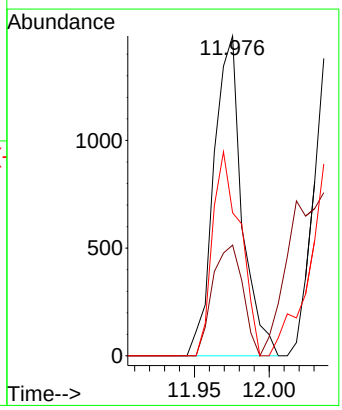


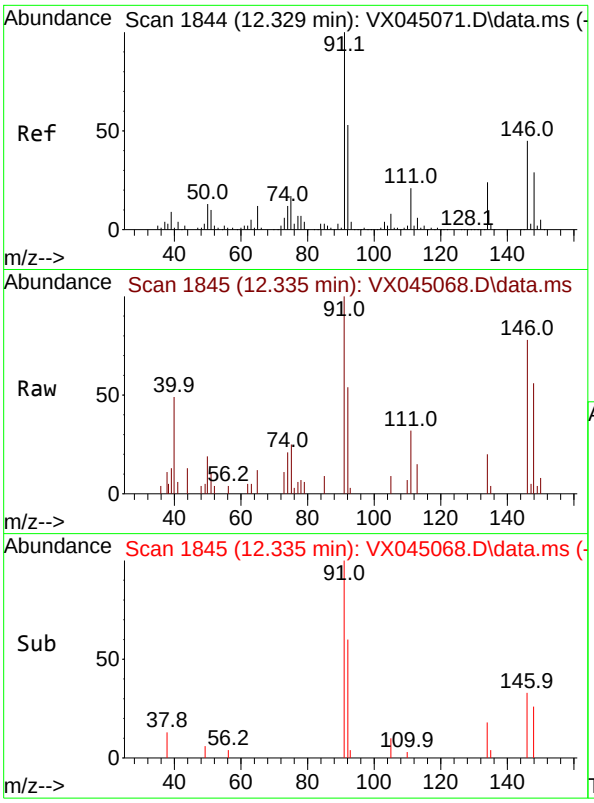


#88
1,4-Dichlorobenzene
Concen: 0.900 ug/l
RT: 11.976 min Scan# 1786
Delta R.T. -0.061 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:146 Resp: 1948

Ion	Ratio	Lower	Upper
146	100		
111	37.1	20.2	60.5
148	62.4	31.9	95.9



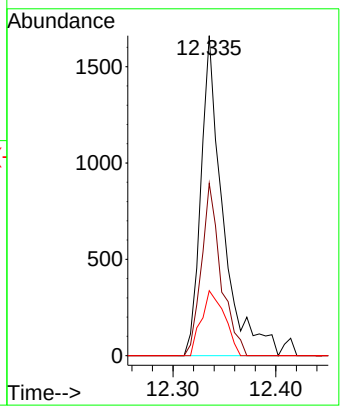


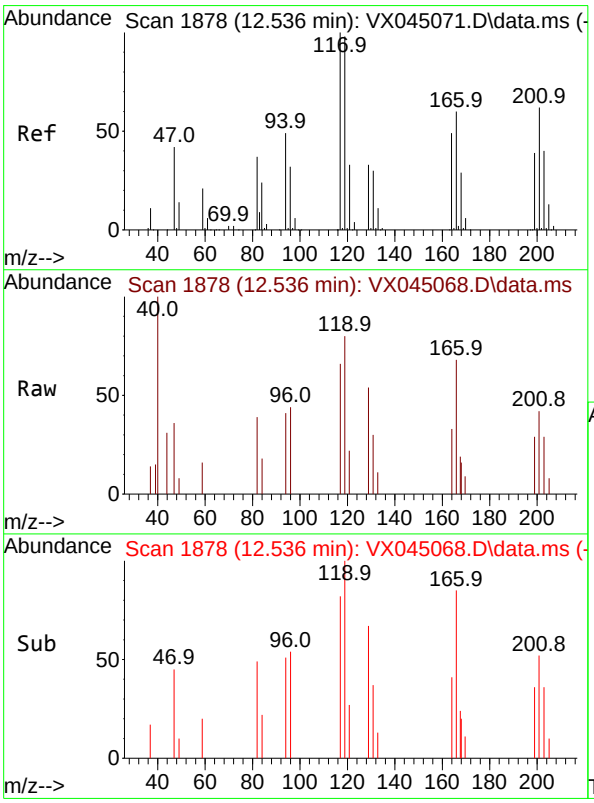
#89
n-Butylbenzene
Concen: 0.691 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 2470

Ion	Ratio	Lower	Upper
91	100		
92	48.0	26.7	80.0
134	21.4	12.2	36.6

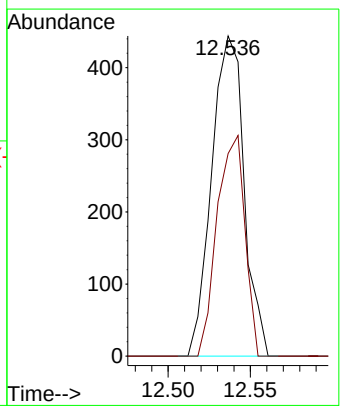


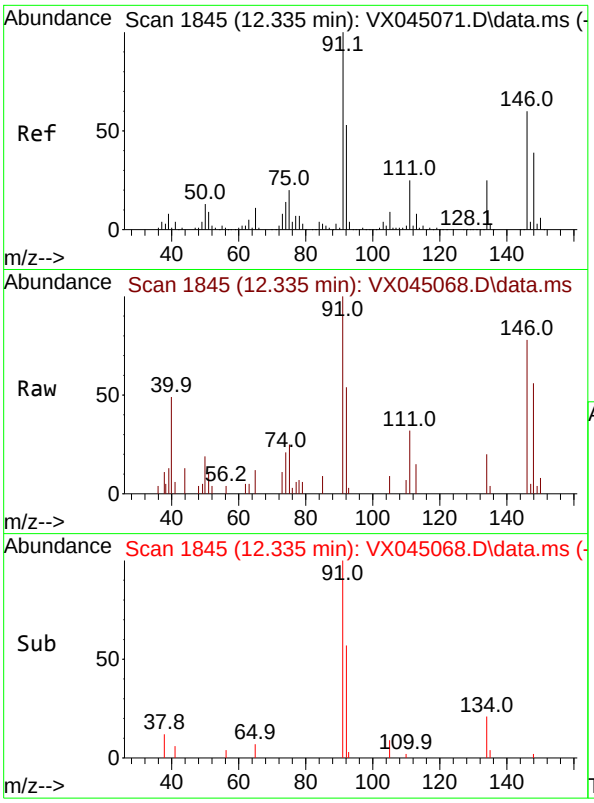


#90
Hexachloroethane
Concen: 0.805 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:117 Resp: 609

Ion	Ratio	Lower	Upper
117	100		
201	58.9	31.9	95.9



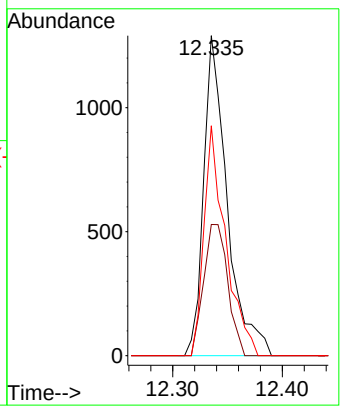


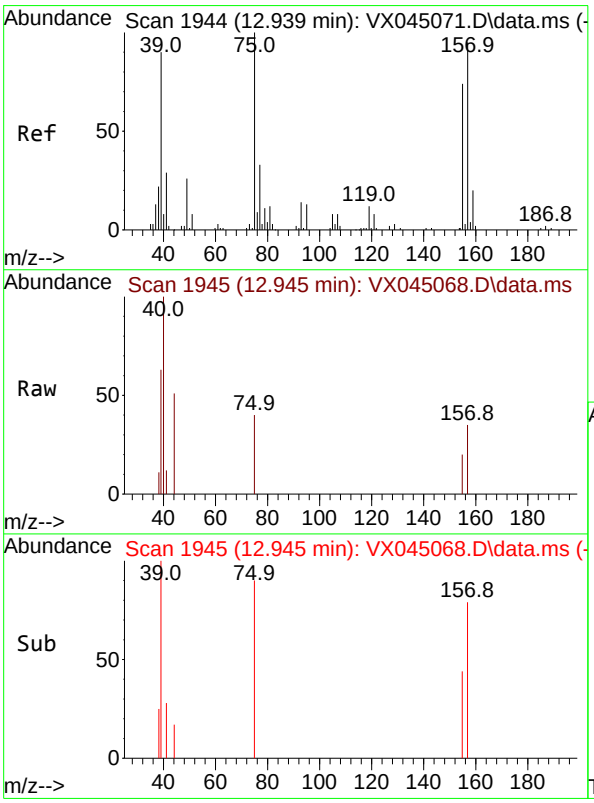
#91
1,2-Dichlorobenzene
Concen: 0.890 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 1918

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.6	65.0
148	66.1	31.9	95.9

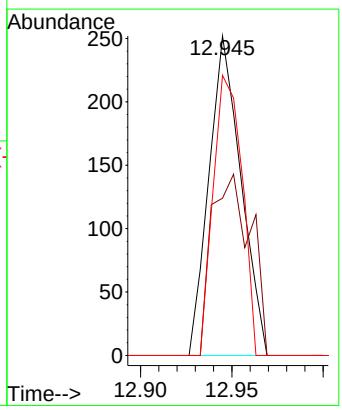


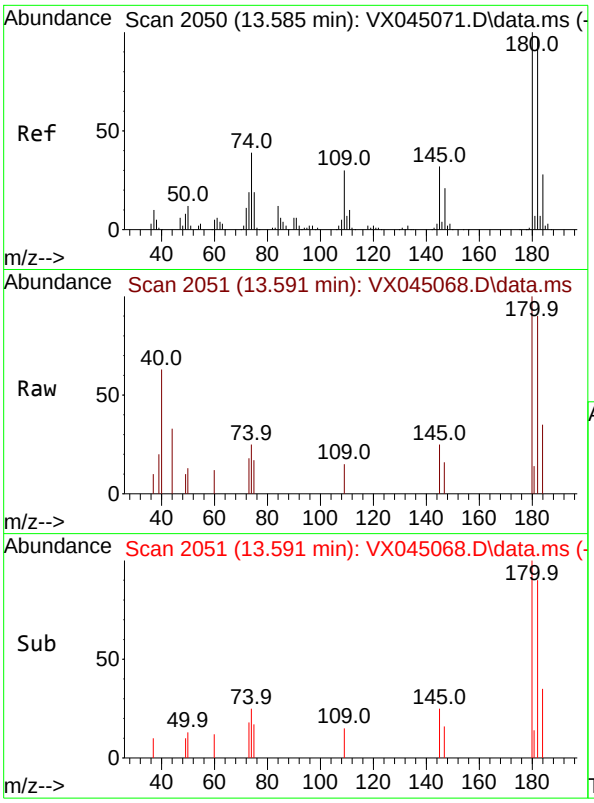


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.859 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 308

Ion	Ratio	Lower	Upper
75	100		
155	69.2	39.6	118.7
157	78.6	51.1	153.4



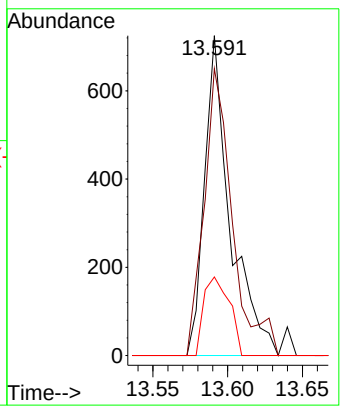


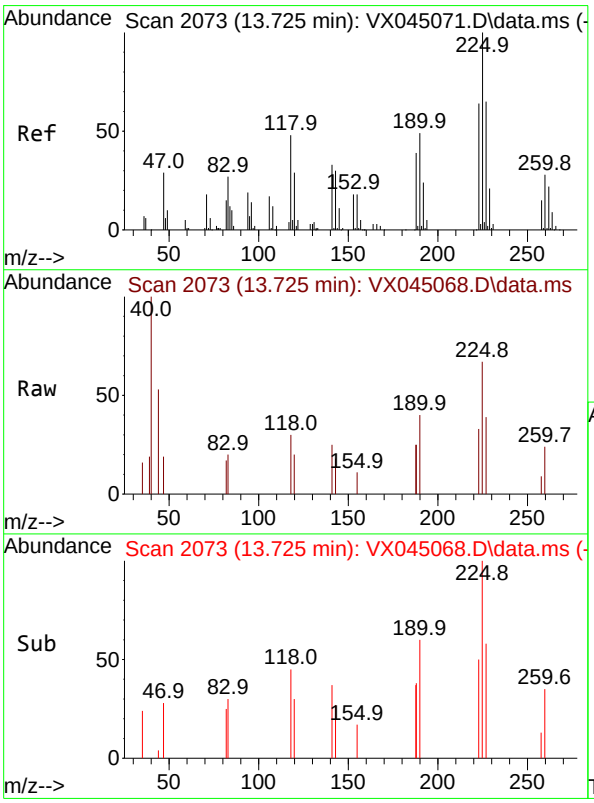
#93
1,2,4-Trichlorobenzene
Concen: 0.706 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 866

Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.3	141.9
145	24.5	16.3	48.9

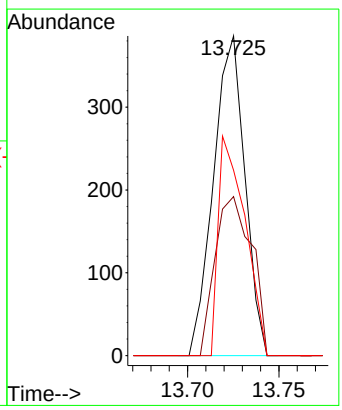


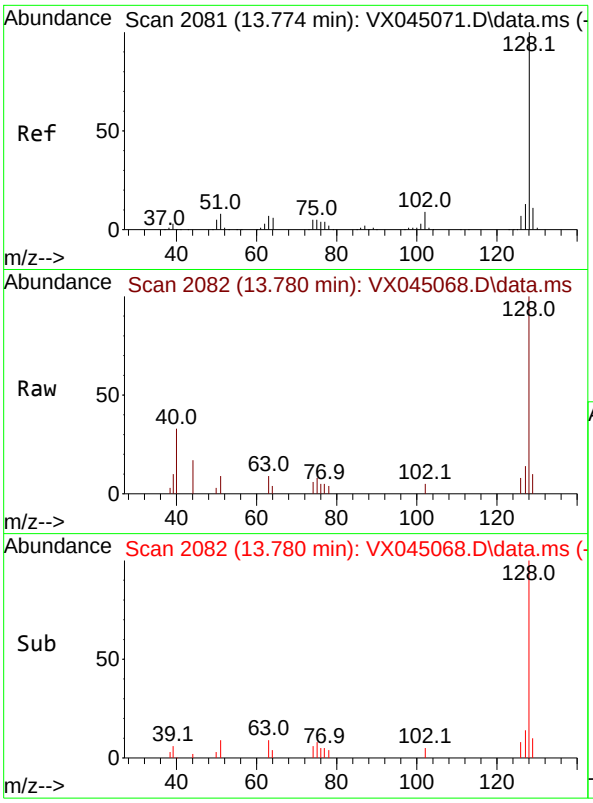


#94
Hexachlorobutadiene
Concen: 0.917 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:225 Resp: 462

Ion	Ratio	Lower	Upper
225	100		
223	57.8	31.9	95.7
227	58.7	31.4	94.0



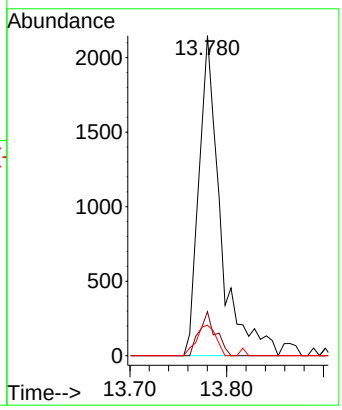


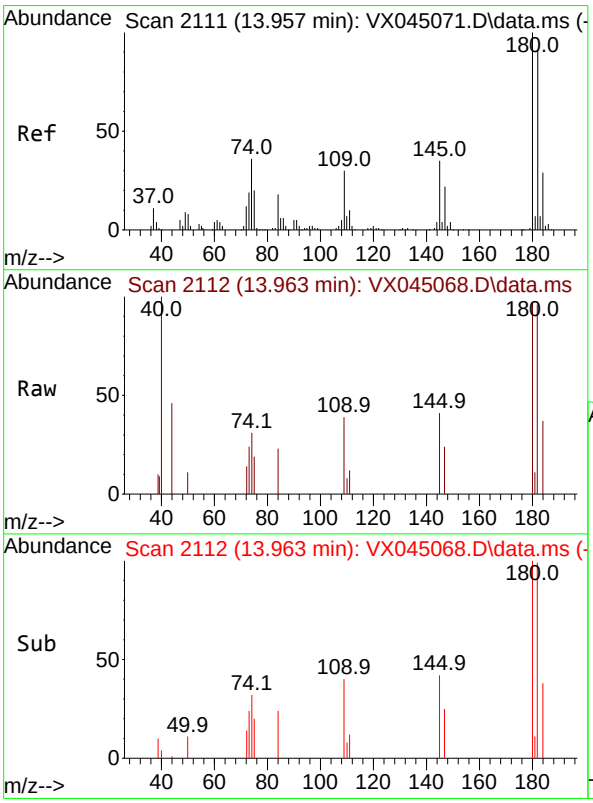
#95
Naphthalene
Concen: 0.707 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 3337

Ion	Ratio	Lower	Upper
128	100		
127	10.5	10.3	15.5
129	8.6	8.7	13.1#

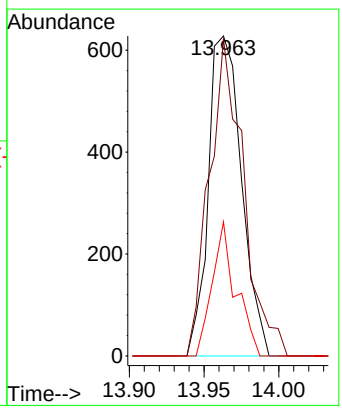




#96
1,2,3-Trichlorobenzene
Concen: 0.759 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:180 Resp: 969

Ion	Ratio	Lower	Upper
180	100		
182	102.3	47.5	142.6
145	29.8	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	107391	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	194243	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	172367	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73591	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.964	65	8978	5.659	ug/l		0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.320%#			
35) Dibromofluoromethane	5.391	113	6398	5.039	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.080%#			
50) Toluene-d8	8.647	98	24037	5.057	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.120%#			
62) 4-Bromofluorobenzene	11.079	95	7436	4.685	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.360%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	6941	4.689	ug/l		96
3) Chloromethane	1.307	50	8819	4.896	ug/l		99
4) Vinyl Chloride	1.374	62	8106	4.608	ug/l		94
5) Bromomethane	1.593	94	3620	6.582	ug/l		96
6) Chloroethane	1.660	64	4517	6.746	ug/l		91
7) Trichlorofluoromethane	1.867	101	11392	5.056	ug/l		95
8) Diethyl Ether	2.136	74	4314	5.268	ug/l		99
9) 1,1,2-Trichlorotrifluo...	2.319	101	6586	4.894	ug/l		98
10) Methyl Iodide	2.441	142	6520	3.780	ug/l		95
11) Tert butyl alcohol	2.983	59	7224	24.859	ug/l		99
12) 1,1-Dichloroethene	2.313	96	6658	4.819	ug/l		94
13) Acrolein	2.233	56	8725	27.725	ug/l		97
14) Allyl chloride	2.654	41	11244	4.527	ug/l		96
15) Acrylonitrile	3.068	53	21381	27.072	ug/l		99
16) Acetone	2.386	43	19512	29.891	ug/l		97
17) Carbon Disulfide	2.502	76	16984	4.518	ug/l		99
18) Methyl Acetate	2.703	43	8964	4.559	ug/l		97
19) Methyl tert-butyl Ether	3.117	73	20546	4.651	ug/l		95
20) Methylene Chloride	2.782	84	7835	5.068	ug/l		97
21) trans-1,2-Dichloroethene	3.087	96	6651	4.895	ug/l		94
22) Diisopropyl ether	3.763	45	23151	4.875	ug/l	#	82
23) Vinyl Acetate	3.721	43	88852	22.788	ug/l		98
24) 1,1-Dichloroethane	3.605	63	13132	4.949	ug/l		99
25) 2-Butanone	4.574	43	29277	27.819	ug/l		99
26) 2,2-Dichloropropane	4.471	77	6034	3.059	ug/l		97
27) cis-1,2-Dichloroethene	4.483	96	8012	4.892	ug/l		97
28) Bromochloromethane	4.904	49	6797	5.311	ug/l	#	96
29) Tetrahydrofuran	5.013	42	20186	28.950	ug/l		99
30) Chloroform	5.093	83	13390	5.159	ug/l		96
31) Cyclohexane	5.464	56	10968	4.504	ug/l		95
32) 1,1,1-Trichloroethane	5.385	97	10654	4.876	ug/l		100
36) 1,1-Dichloropropene	5.690	75	8977	4.917	ug/l	#	83
37) Ethyl Acetate	4.727	43	10459	5.035	ug/l		98
38) Carbon Tetrachloride	5.666	117	8997	5.013	ug/l		95
39) Methylcyclohexane	7.379	83	10291	4.414	ug/l		97
40) Benzene	6.037	78	28339	4.966	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	5700	5.136	ug/l		95
42) 1,2-Dichloroethane	6.092	62	10189	5.510	ug/l		98
43) Isopropyl Acetate	6.348	43	15543	4.700	ug/l		99
44) Trichloroethene	7.129	130	6827	5.234	ug/l		99
45) 1,2-Dichloropropane	7.427	63	7342	5.177	ug/l		95
46) Dibromomethane	7.586	93	5146	5.195	ug/l		97
47) Bromodichloromethane	7.824	83	9773	5.100	ug/l		99
48) Methyl methacrylate	7.696	41	8201	5.224	ug/l		95
49) 1,4-Dioxane	7.665	88	3531	105.826	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	55320	27.303	ug/l		99
52) Toluene	8.720	92	16933	4.997	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	7548	3.985	ug/l		94
54) cis-1,3-Dichloropropene	8.366	75	8988	4.244	ug/l		92
55) 1,1,2-Trichloroethane	9.153	97	6759	5.151	ug/l		97
56) Ethyl methacrylate	9.116	69	9712	4.628	ug/l		98
57) 1,3-Dichloropropane	9.305	76	12106	5.289	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	23212	22.527	ug/l		99
59) 2-Hexanone	9.433	43	39994	27.363	ug/l		99
60) Dibromochloromethane	9.519	129	6785	4.846	ug/l		98
61) 1,2-Dibromoethane	9.610	107	6832	5.161	ug/l		95
64) Tetrachloroethene	9.269	164	5615	5.128	ug/l		93
65) Chlorobenzene	10.079	112	18161	4.908	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	5702	4.781	ug/l		96
67) Ethyl Benzene	10.195	91	30918	4.725	ug/l		98
68) m/p-Xylenes	10.299	106	23152	9.608	ug/l		97
69) o-Xylene	10.640	106	11881	4.914	ug/l		95
70) Styrene	10.659	104	18278	4.704	ug/l		99
71) Bromoform	10.799	173	4027	4.541	ug/l	#	98
73) Isopropylbenzene	10.963	105	29685	4.991	ug/l		98
74) N-amyl acetate	10.848	43	11609	4.300	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	10881	5.310	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	10159	6.189	ug/l		89
77) Bromobenzene	11.195	156	6970	5.163	ug/l		96
78) n-propylbenzene	11.305	91	32196	4.694	ug/l		99
79) 2-Chlorotoluene	11.366	91	21253	5.048	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	23627	4.897	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	1971	3.256	ug/l	#	83
82) 4-Chlorotoluene	11.457	91	22190	4.761	ug/l		98
83) tert-Butylbenzene	11.713	119	23960	4.910	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	23561	4.960	ug/l		99
85) sec-Butylbenzene	11.890	105	28314	4.687	ug/l		99
86) p-Isopropyltoluene	12.006	119	21977	4.532	ug/l		97
87) 1,3-Dichlorobenzene	11.969	146	12157	4.926	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	12526	5.014	ug/l		96
89) n-Butylbenzene	12.335	91	17358	4.072	ug/l		99
90) Hexachloroethane	12.536	117	3665	4.052	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	12477	5.138	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1787	4.712	ug/l		90
93) 1,2,4-Trichlorobenzene	13.591	180	6040	4.114	ug/l		97
94) Hexachlorobutadiene	13.725	225	2716	4.640	ug/l		97
95) Naphthalene	13.780	128	22927	4.287	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	6600	4.437	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

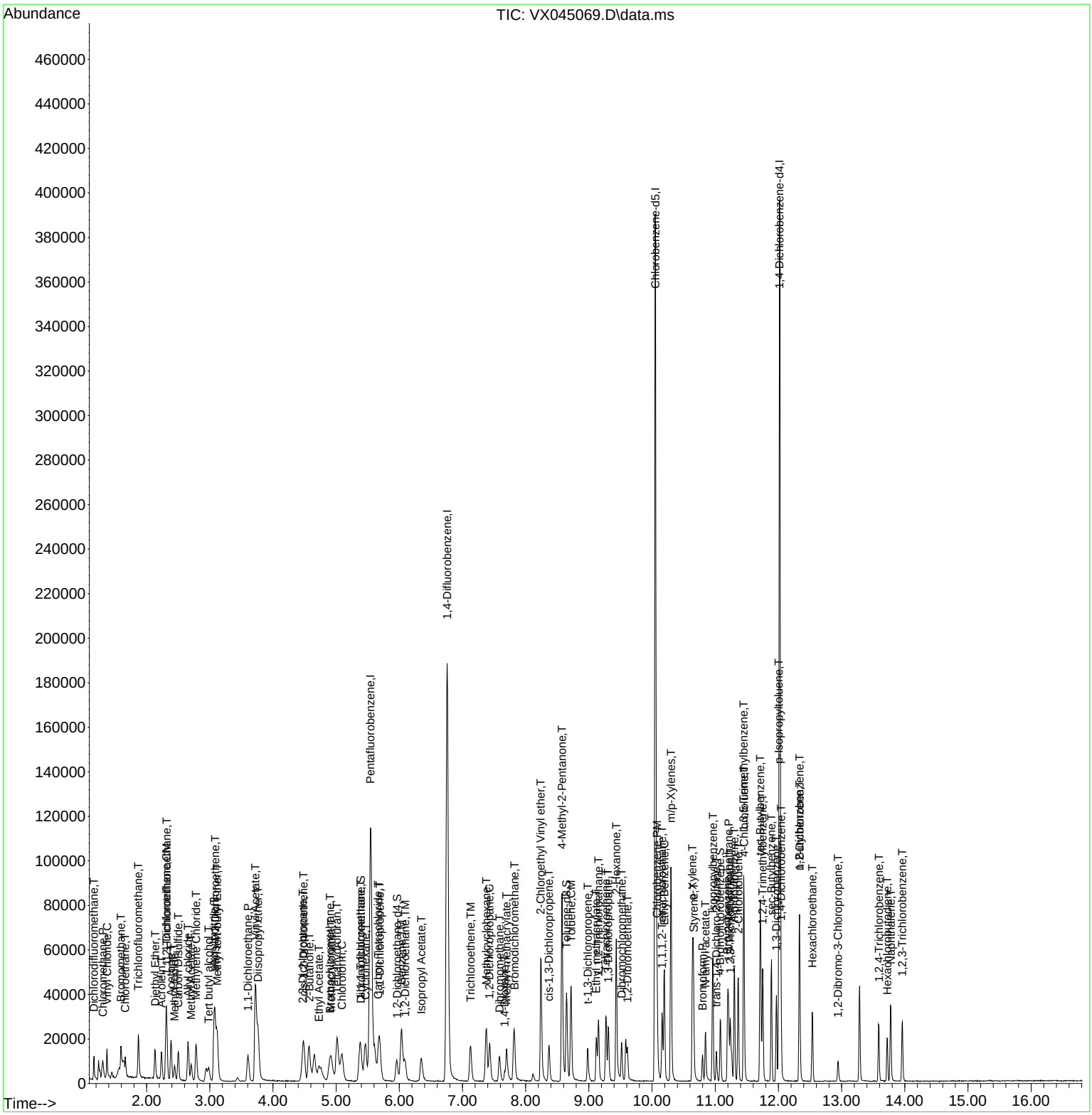
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

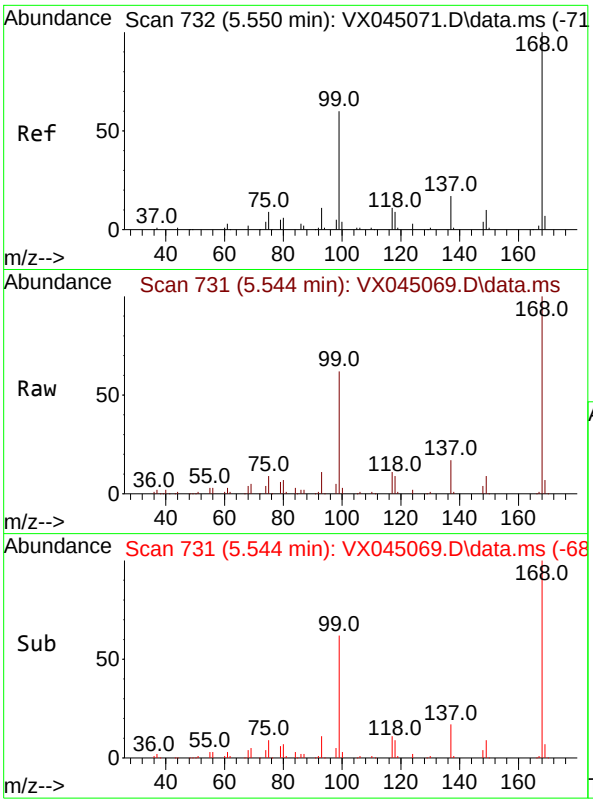
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration



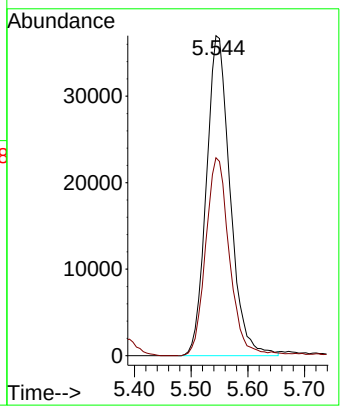


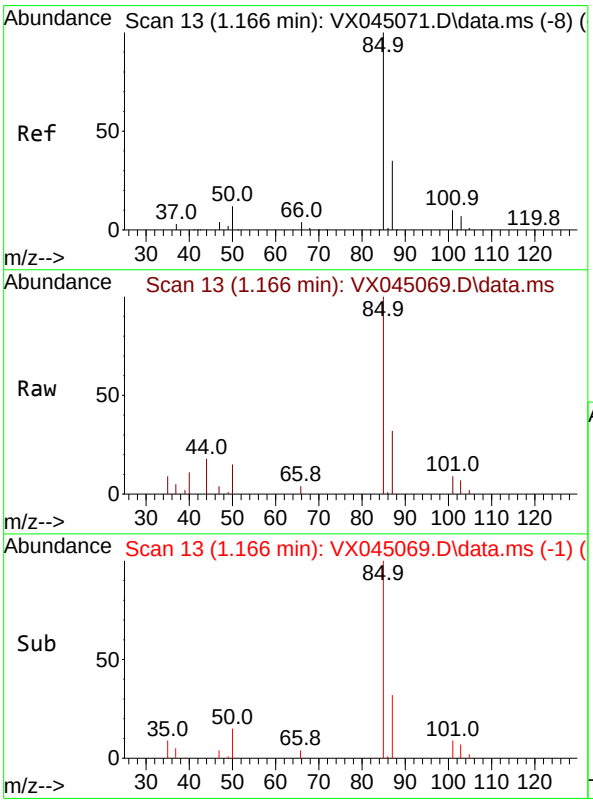
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 107391

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.2	72.4

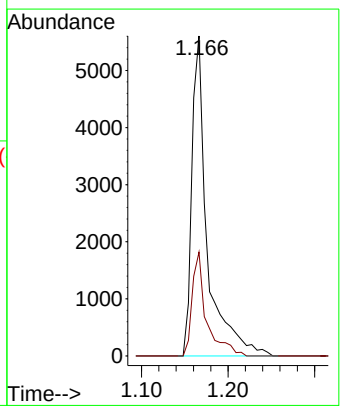


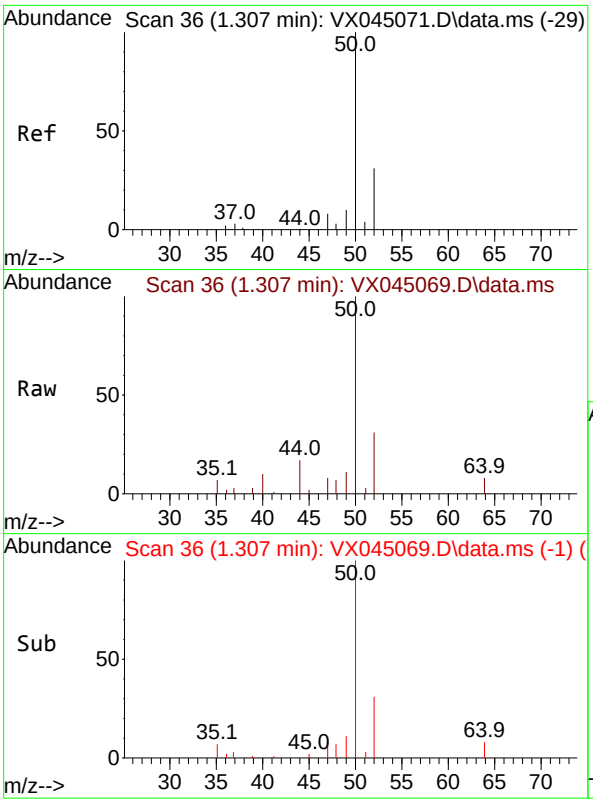


#2
Dichlorodifluoromethane
Concen: 4.689 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 85 Resp: 6941

Ion	Ratio	Lower	Upper
85	100		
87	32.4	17.4	52.3



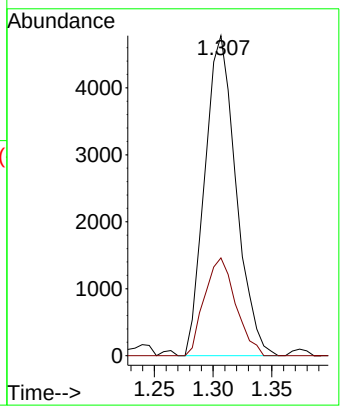


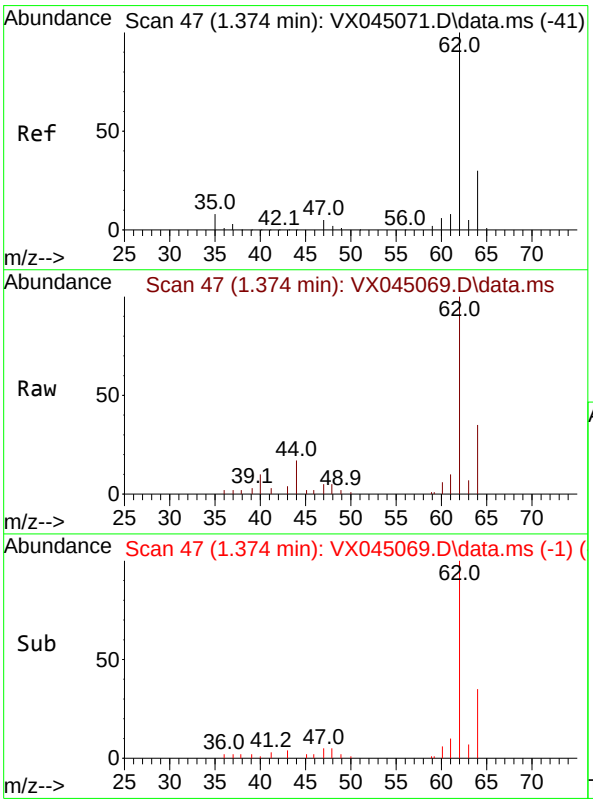
#3
Chloromethane
Concen: 4.896 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 8819

Ion	Ratio	Lower	Upper
50	100		
52	30.6	25.0	37.4

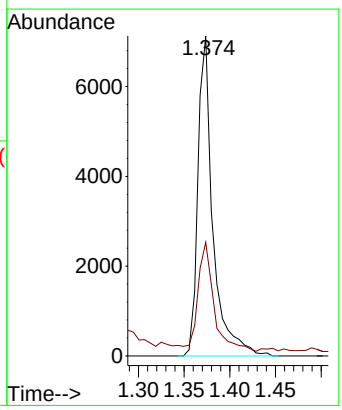


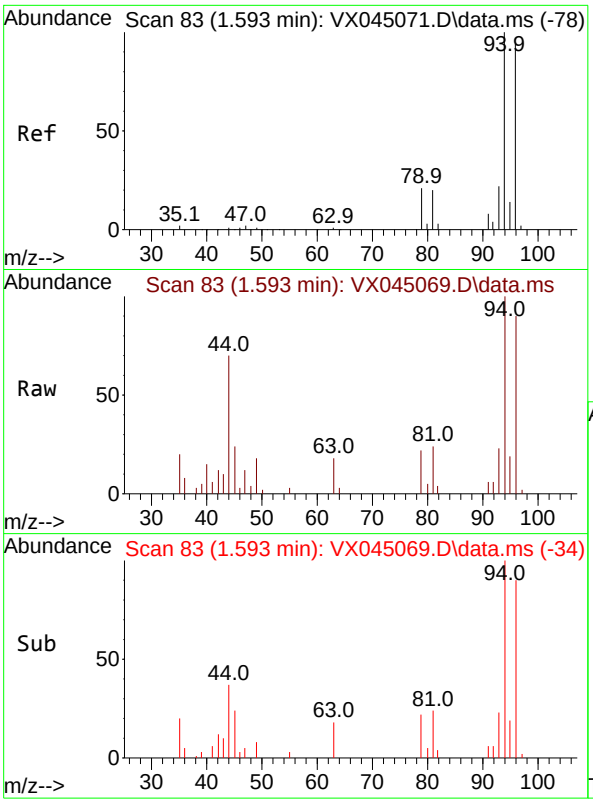


#4
Vinyl Chloride
Concen: 4.608 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 8106

Ion	Ratio	Lower	Upper
62	100		
64	33.9	24.3	36.5



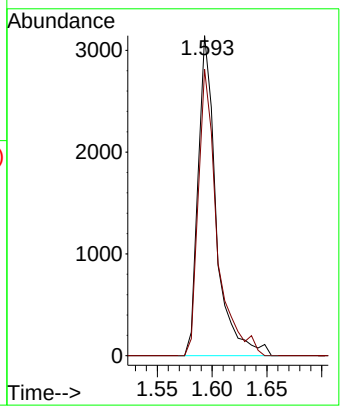


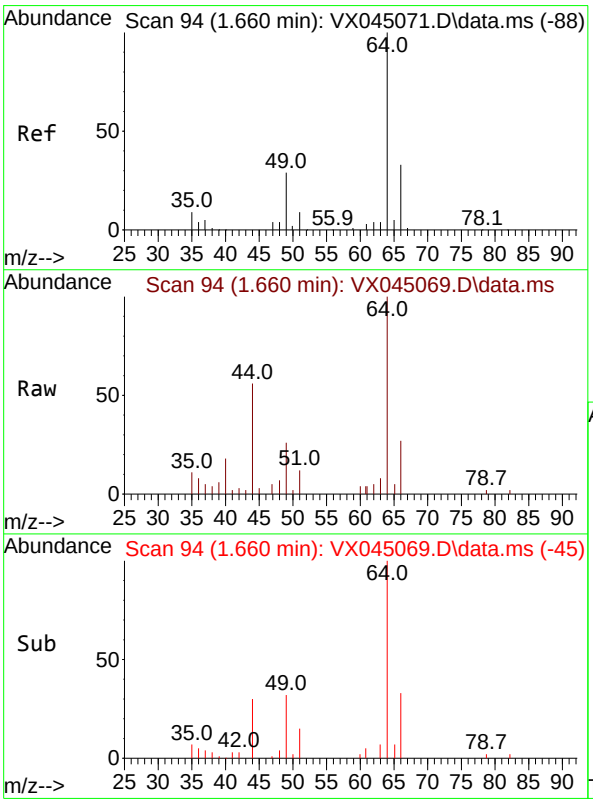
#5
Bromomethane
Concen: 6.582 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 3620

Ion	Ratio	Lower	Upper
94	100		
96	89.5	75.0	112.4

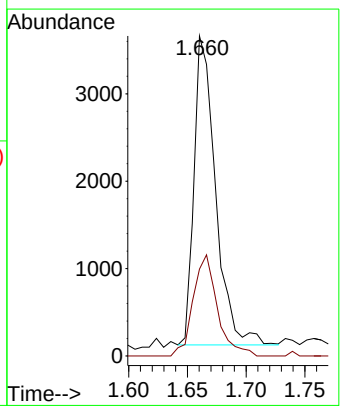


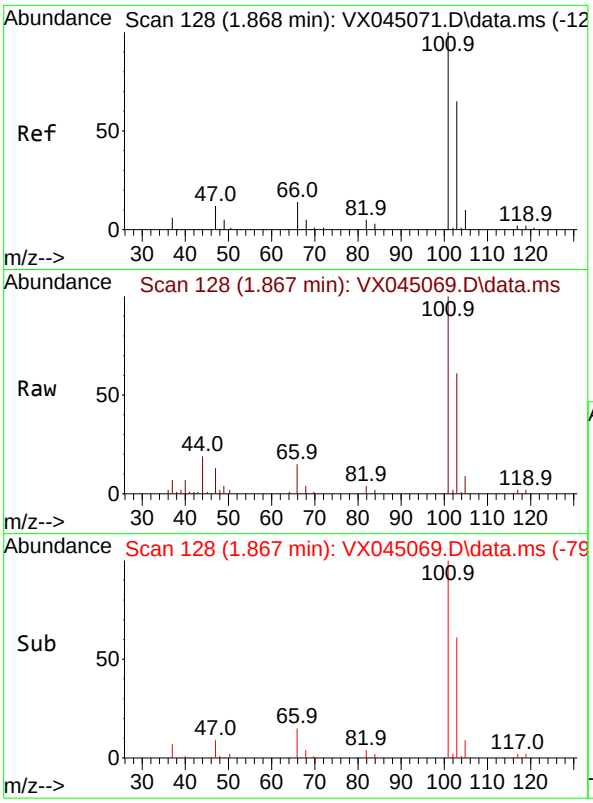


#6
Chloroethane
Concen: 6.746 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 64 Resp: 4517

Ion	Ratio	Lower	Upper
64	100		
66	28.1	26.7	40.1



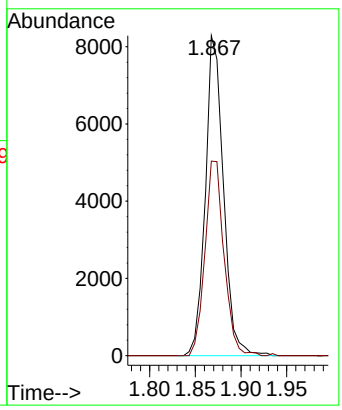


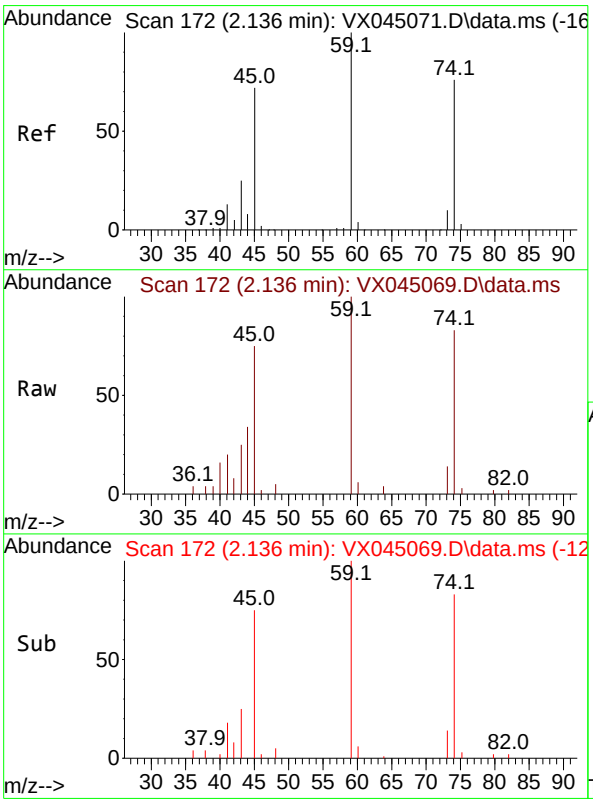
#7
Trichlorofluoromethane
Concen: 5.056 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 11392

Ion	Ratio	Lower	Upper
101	100		
103	60.8	52.1	78.1

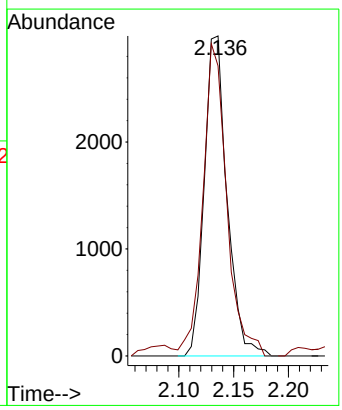


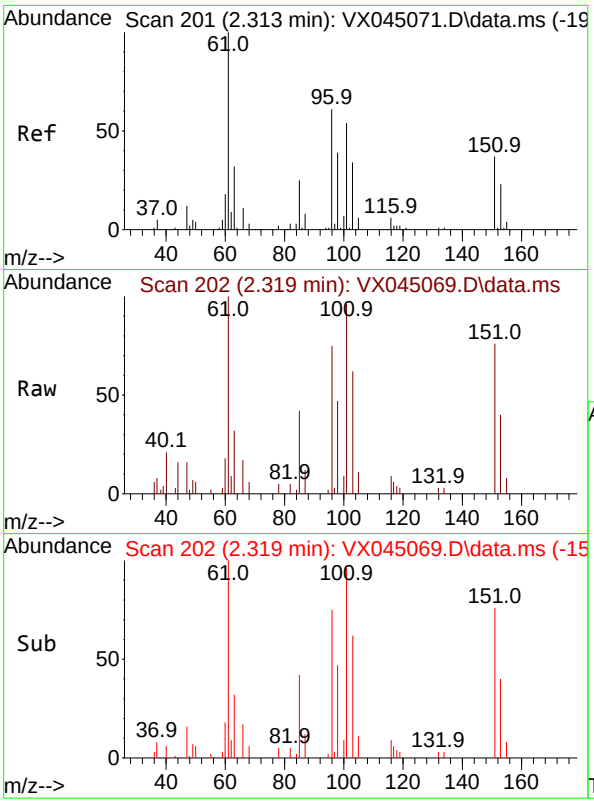


#8
Diethyl Ether
Concen: 5.268 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 74 Resp: 4314

Ion	Ratio	Lower	Upper
74	100		
45	101.9	51.5	154.5



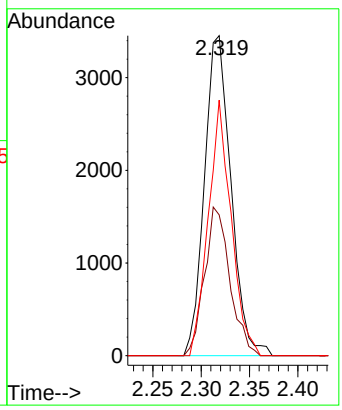


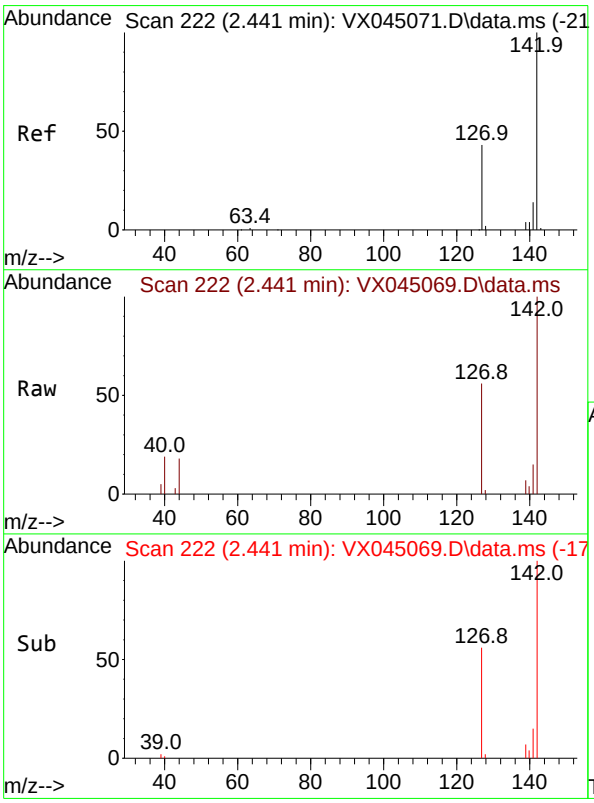
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.894 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 6586

Ion	Ratio	Lower	Upper
101	100		
85	44.4	36.2	54.4
151	69.0	56.4	84.6

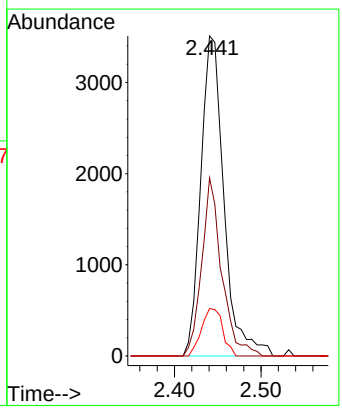


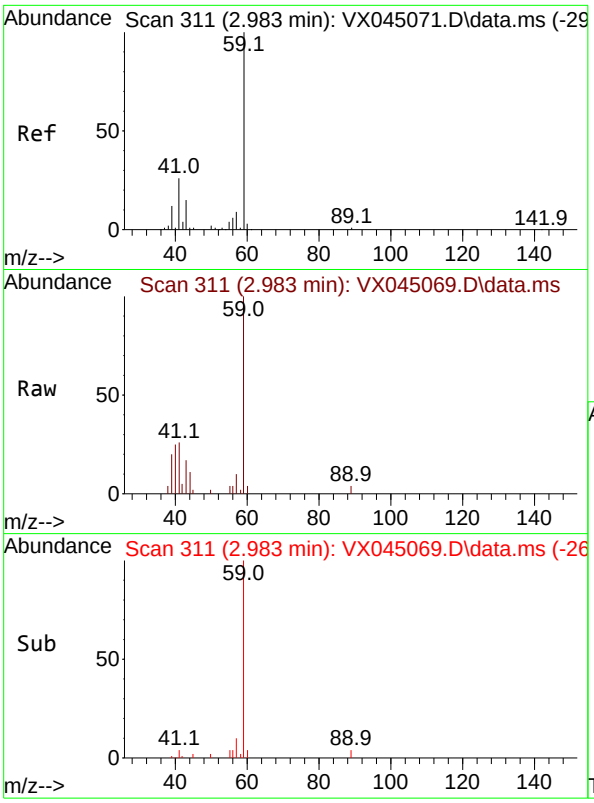


#10
Methyl Iodide
Concen: 3.780 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:142 Resp: 6520

Ion	Ratio	Lower	Upper
142	100		
127	48.1	35.4	53.2
141	13.5	11.6	17.4



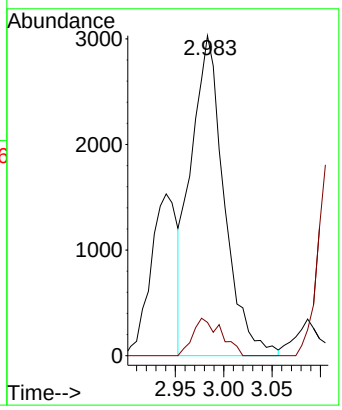


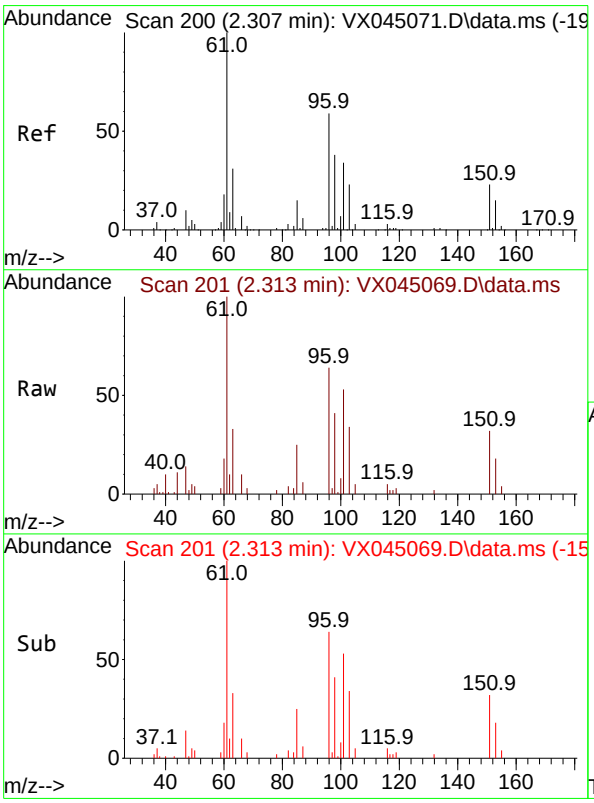
#11
Tert butyl alcohol
Concen: 24.859 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 7224

Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.8	11.8

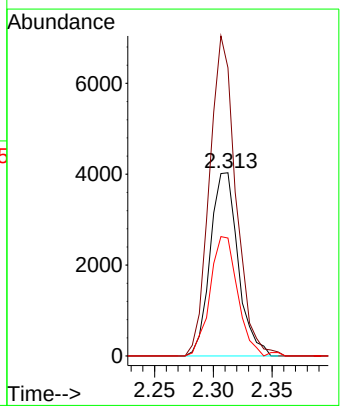


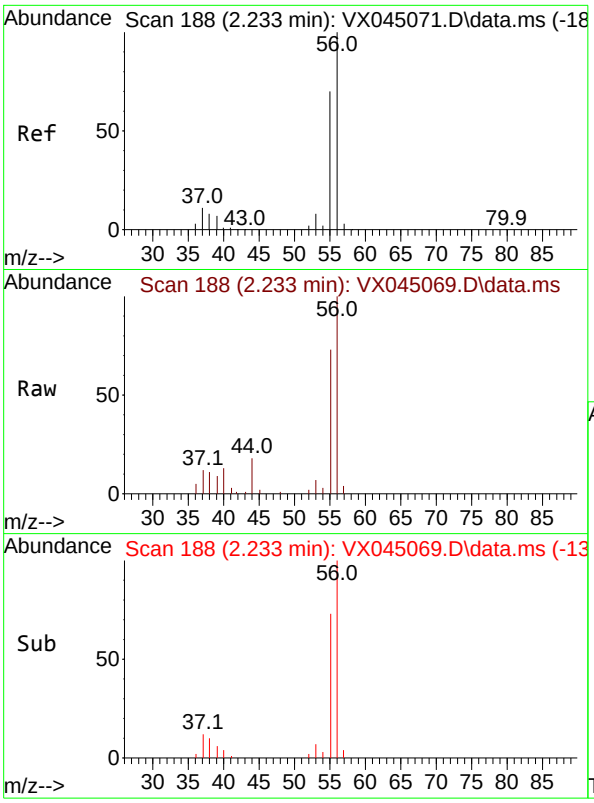


#12
1,1-Dichloroethene
Concen: 4.819 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 96 Resp: 6658

Ion	Ratio	Lower	Upper
96	100		
61	157.3	134.6	202.0
98	64.3	51.0	76.6



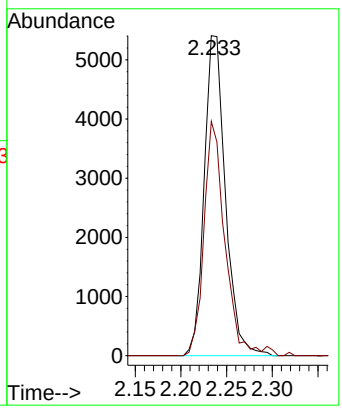


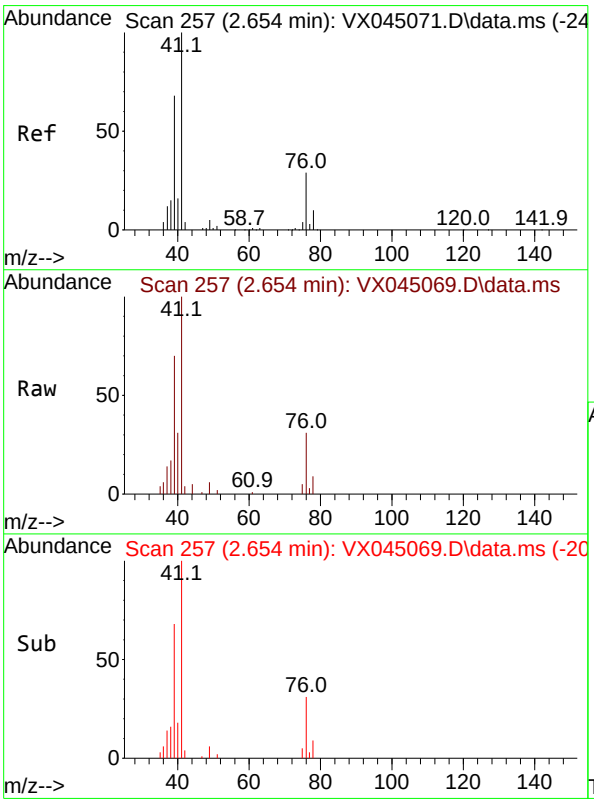
#13
Acrolein
Concen: 27.725 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 8725

Ion	Ratio	Lower	Upper
56	100		
55	72.4	56.2	84.4

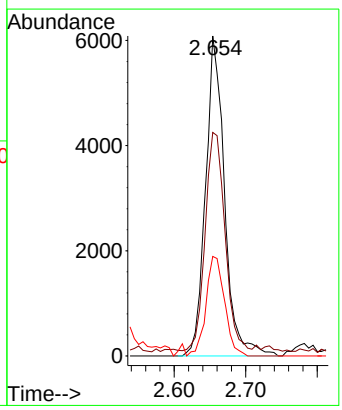


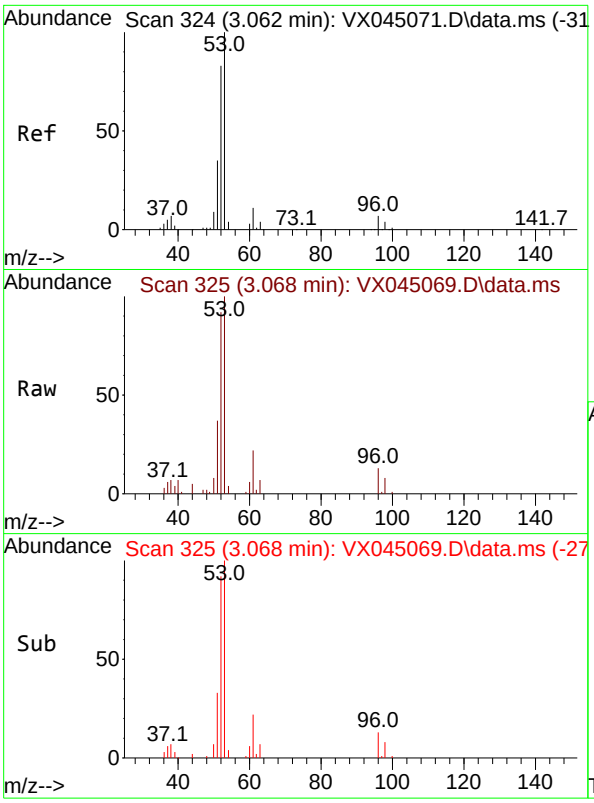


#14
Allyl chloride
Concen: 4.527 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 11244

Ion	Ratio	Lower	Upper
41	100		
39	70.8	53.8	80.8
76	30.4	25.2	37.8



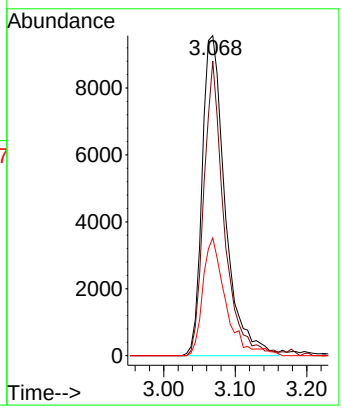


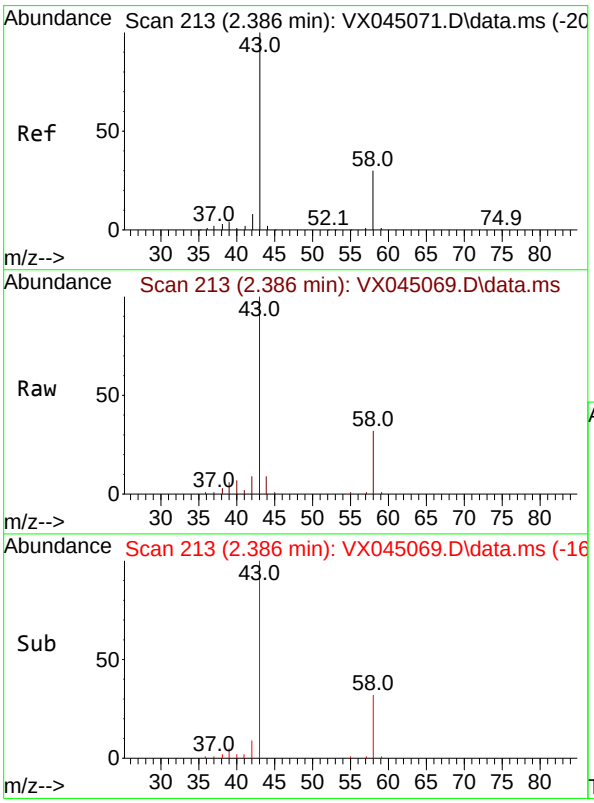
#15
Acrylonitrile
Concen: 27.072 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 21381

Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.2	99.2
51	36.7	29.0	43.4

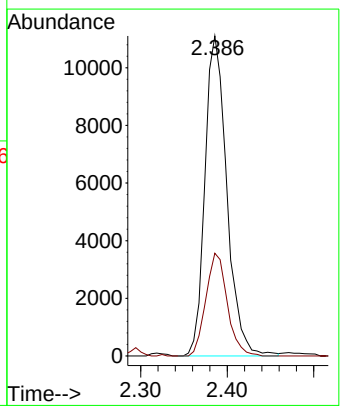


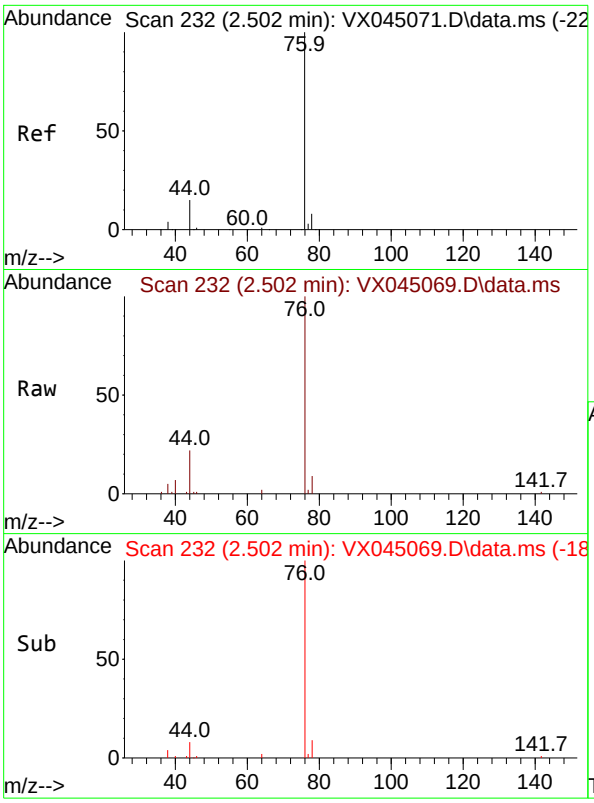


#16
Acetone
Concen: 29.891 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 19512

Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.2	36.4



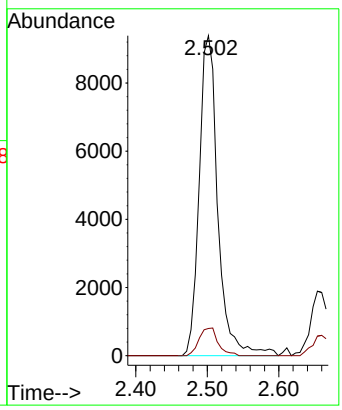


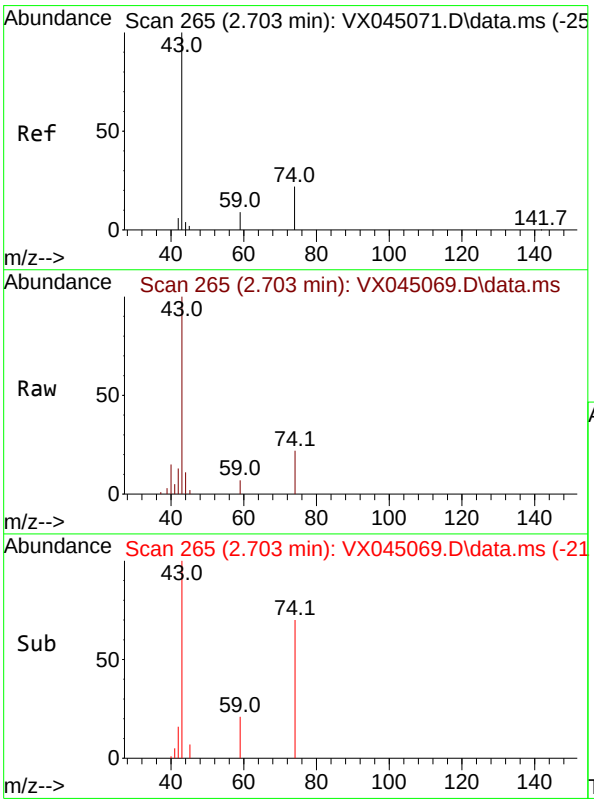
#17
Carbon Disulfide
Concen: 4.518 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 16984

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.6	9.8

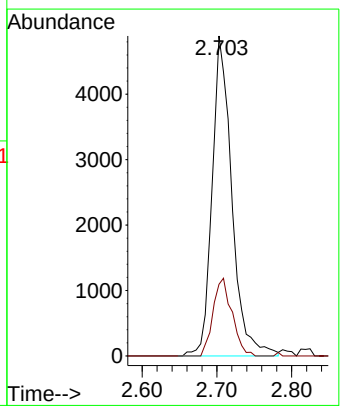


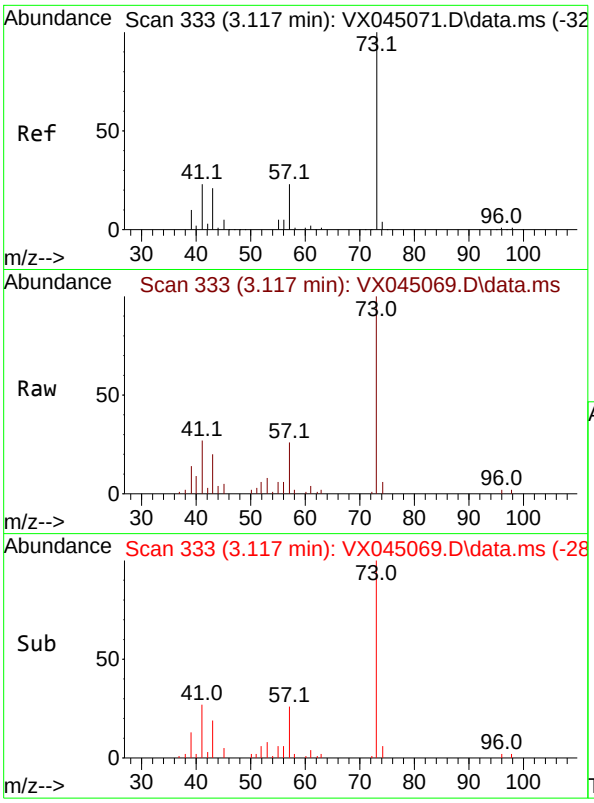


#18
Methyl Acetate
Concen: 4.559 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 8964

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.4	26.2



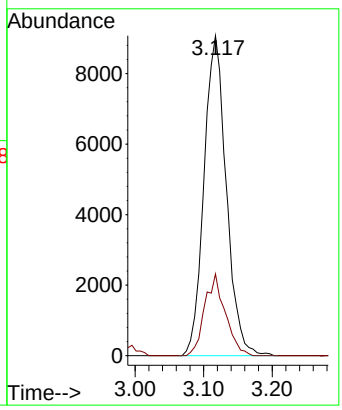


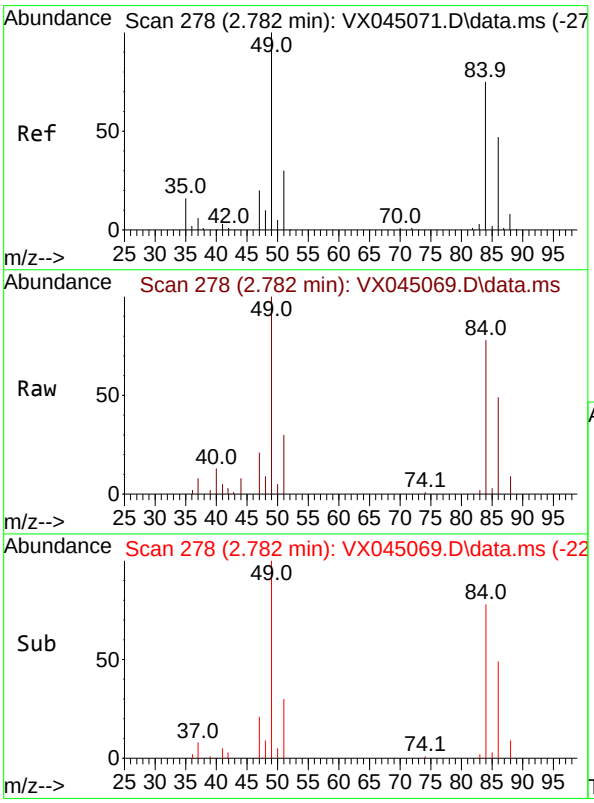
#19
Methyl tert-butyl Ether
Concen: 4.651 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 20546

Ion	Ratio	Lower	Upper
73	100		
57	25.6	18.5	27.7

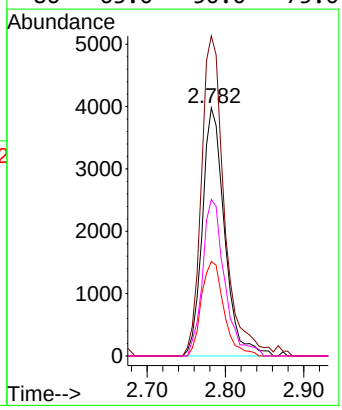


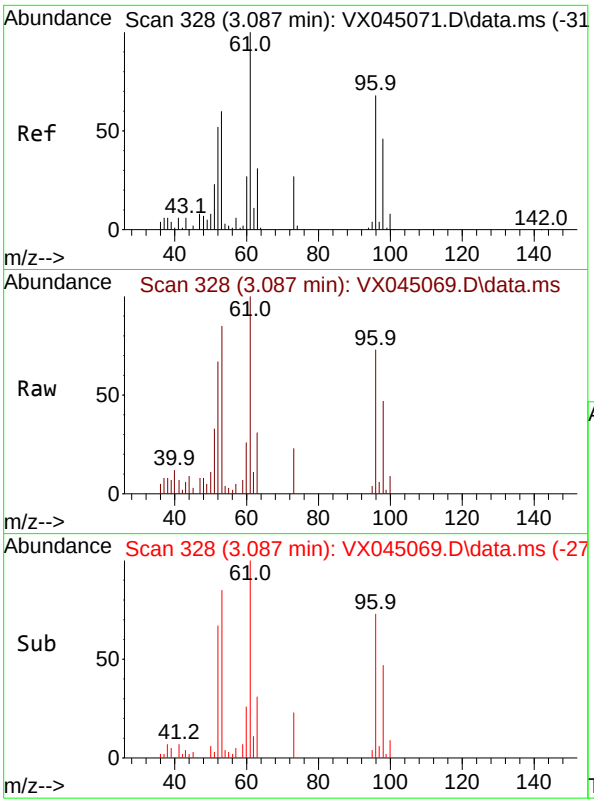


#20
Methylene Chloride
Concen: 5.068 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 84 Resp: 7835

Ion	Ratio	Lower	Upper
84	100		
49	128.9	106.5	159.7
51	38.1	32.1	48.1
86	63.0	50.0	75.0



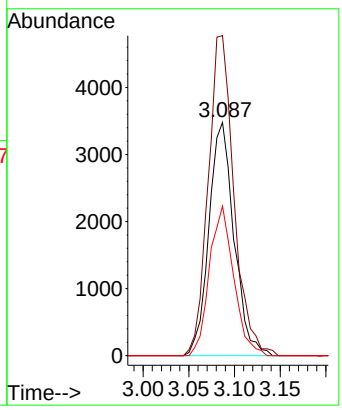


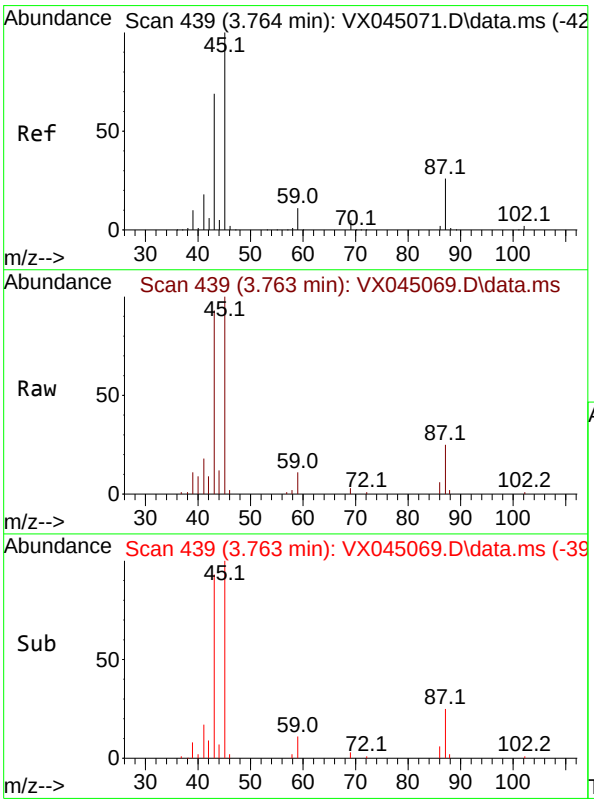
#21
trans-1,2-Dichloroethene
Concen: 4.895 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 6651

Ion	Ratio	Lower	Upper
96	100		
61	137.2	117.0	175.4
98	64.1	53.4	80.2

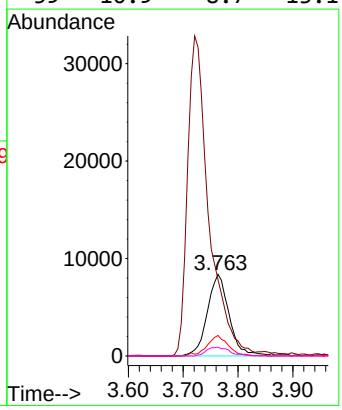


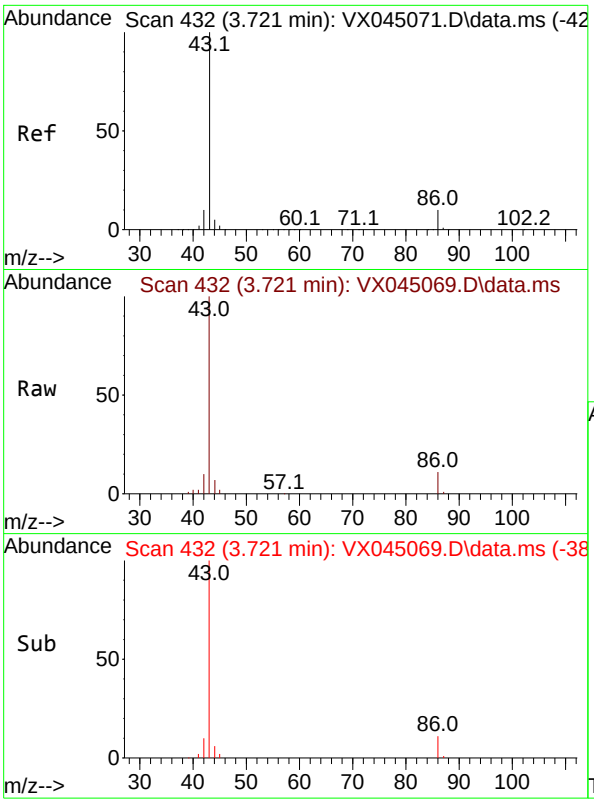


#22
Diisopropyl ether
Concen: 4.875 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 45 Resp: 23151

Ion	Ratio	Lower	Upper
45	100		
43	90.2	54.9	82.3#
87	25.1	21.0	31.4
59	10.9	8.7	13.1



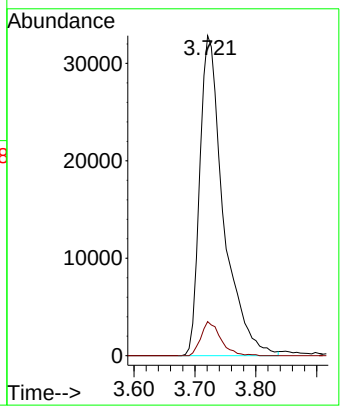


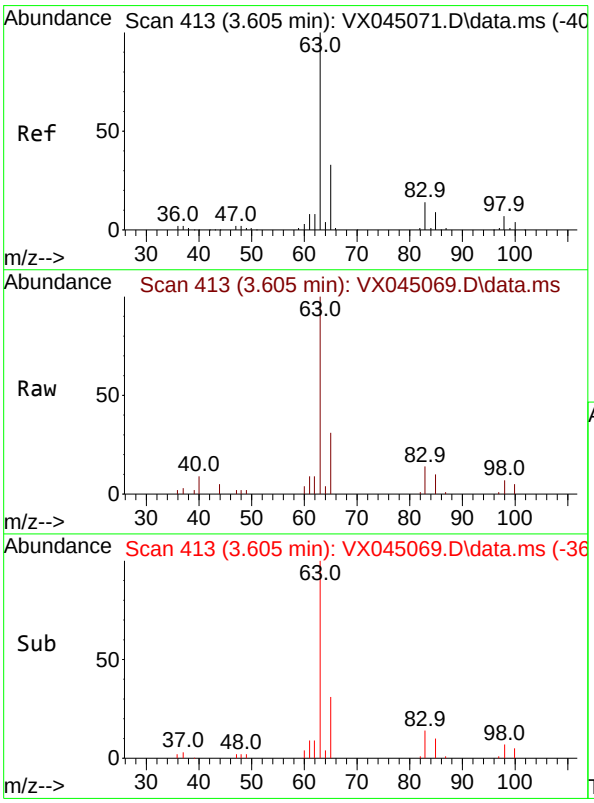
#23
Vinyl Acetate
Concen: 22.788 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 88852

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.1	12.1

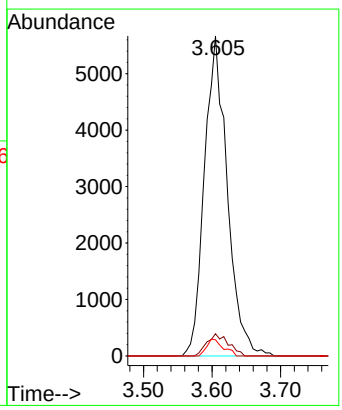


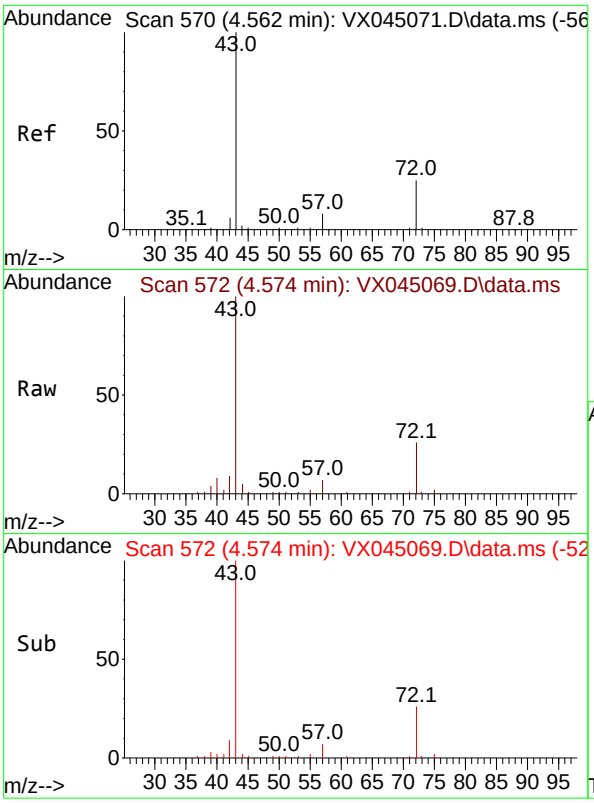


#24
1,1-Dichloroethane
Concen: 4.949 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 13132

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	5.1	2.1	6.5



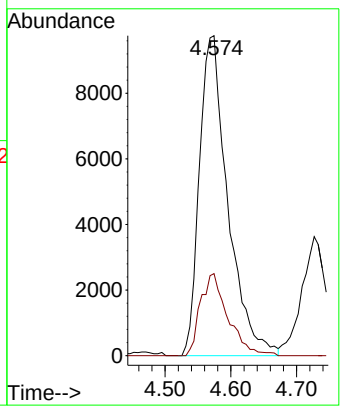


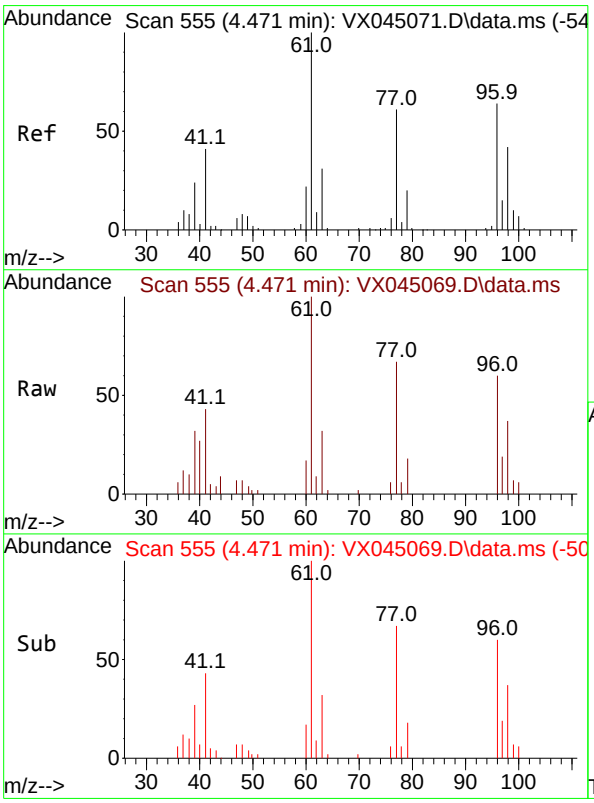
#25
2-Butanone
Concen: 27.819 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 29277

Ion	Ratio	Lower	Upper
43	100		
72	25.7	20.0	30.0

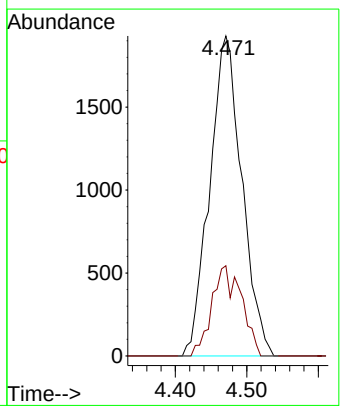


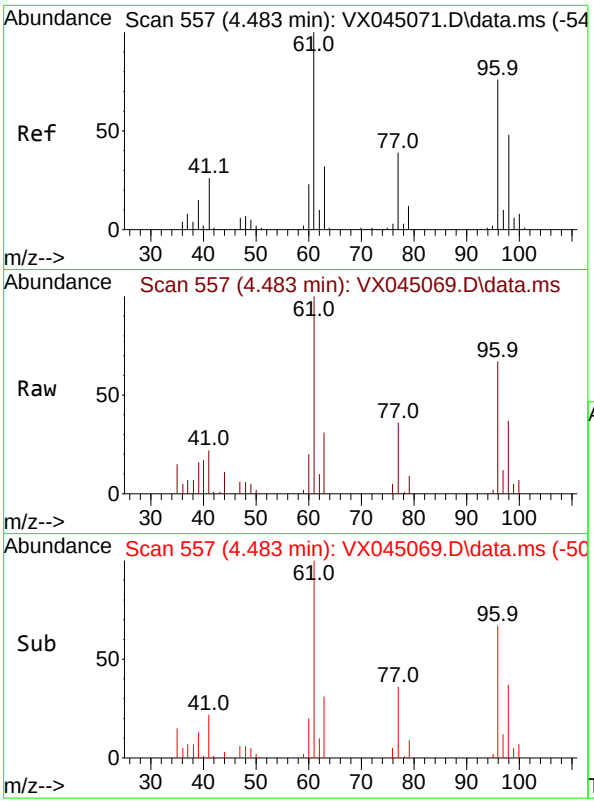


#26
2,2-Dichloropropane
Concen: 3.059 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 77 Resp: 6034

Ion	Ratio	Lower	Upper
77	100		
97	26.0	12.4	37.0



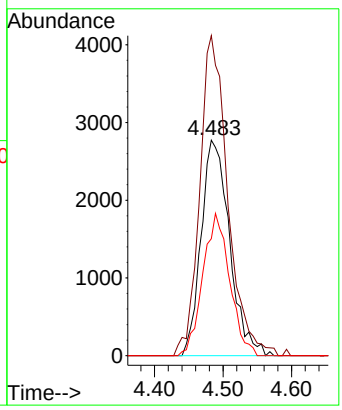


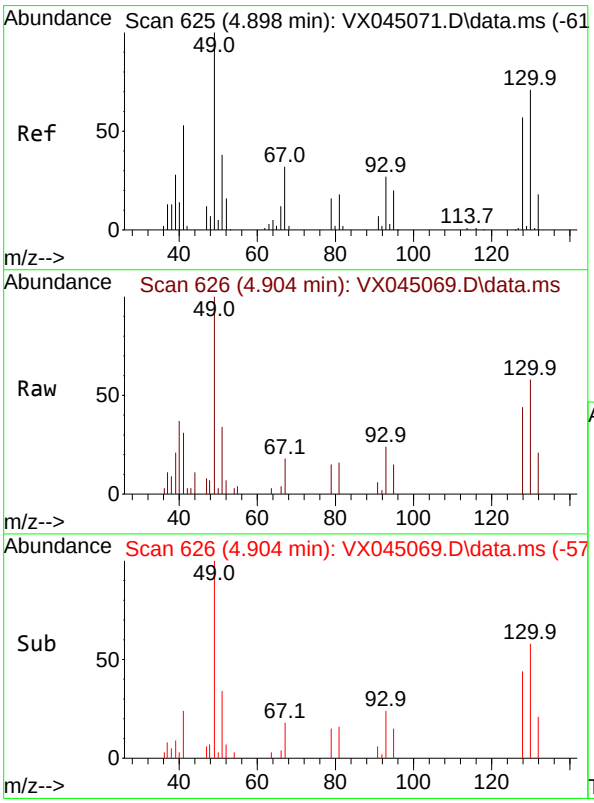
#27
cis-1,2-Dichloroethene
Concen: 4.892 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 8012

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	283.2
98	62.0	0.0	128.0

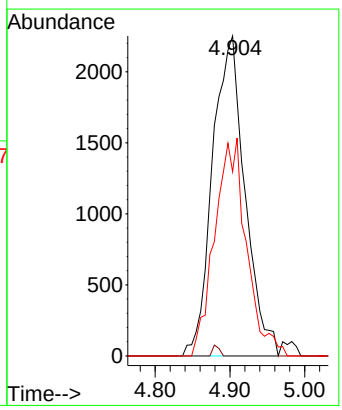


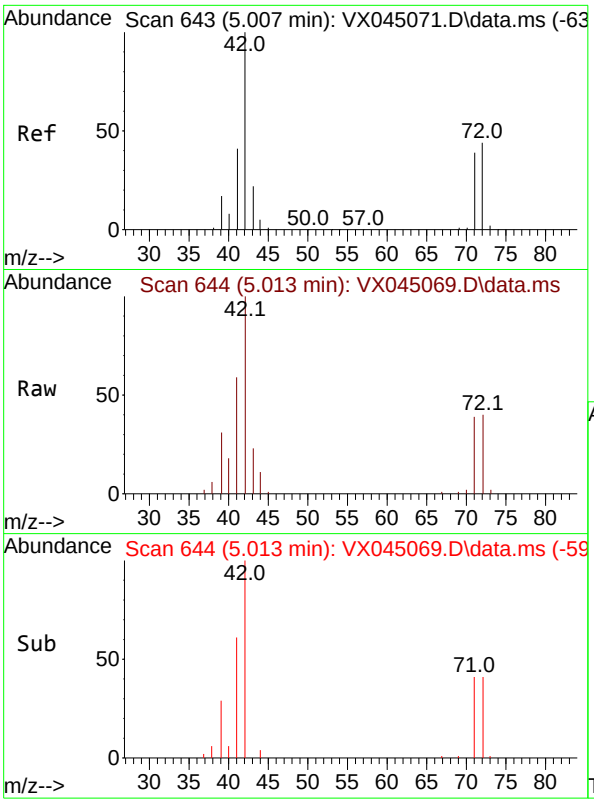


#28
Bromochloromethane
Concen: 5.311 ug/l
RT: 4.904 min Scan# 626
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 49 Resp: 6797

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	66.5	56.1	84.1



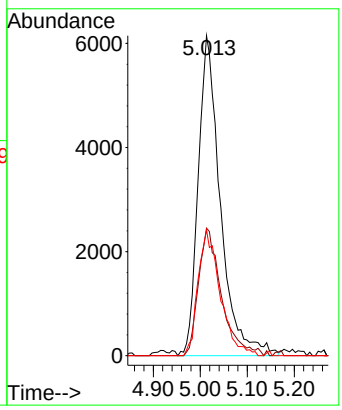


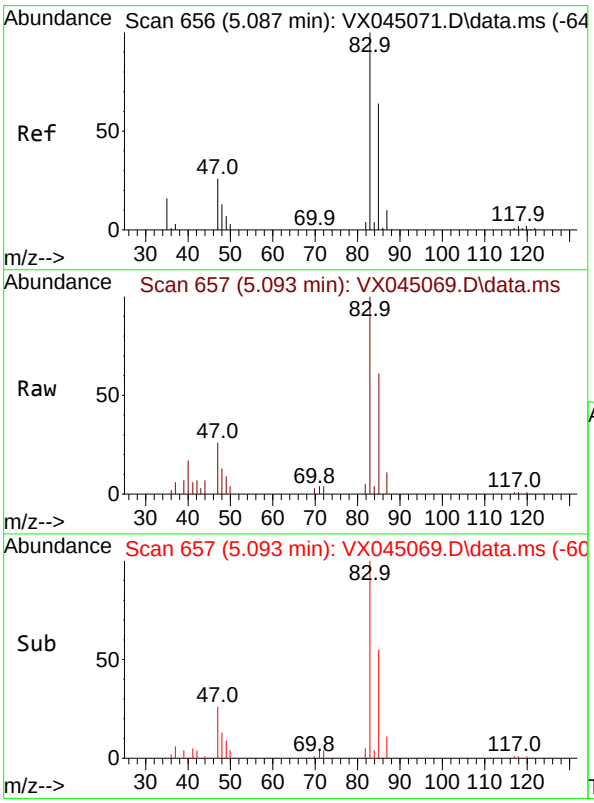
#29
Tetrahydrofuran
Concen: 28.950 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 20186

Ion	Ratio	Lower	Upper
42	100		
72	41.2	34.1	51.1
71	39.3	31.4	47.0

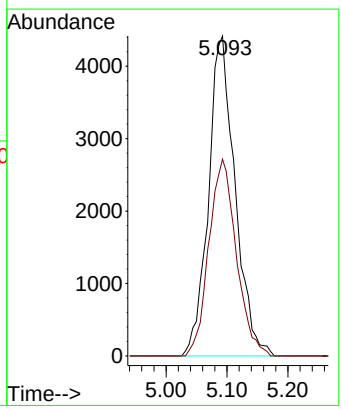


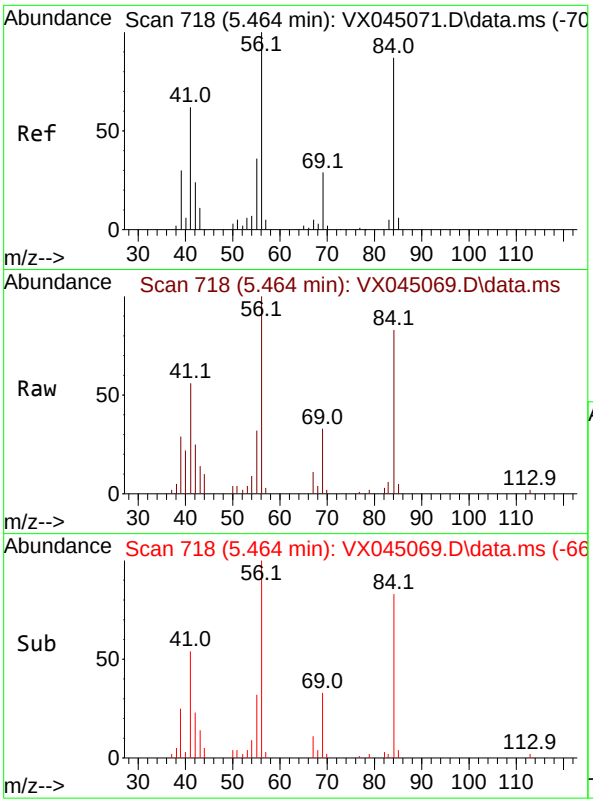


#30
Chloroform
Concen: 5.159 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 13390

Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.4	77.2



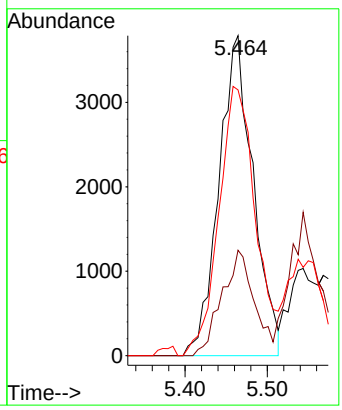


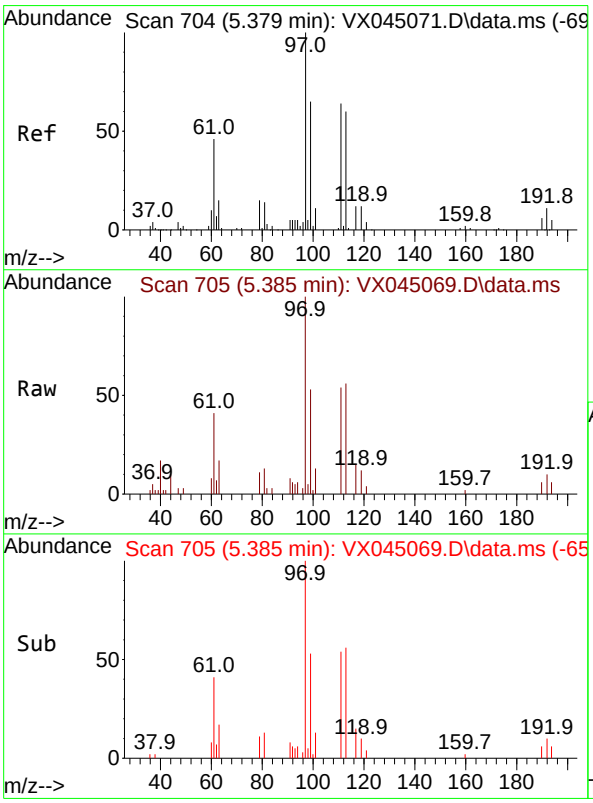
#31
Cyclohexane
Concen: 4.504 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 10968

Ion	Ratio	Lower	Upper
56	100		
69	33.0	23.4	35.2
84	83.1	69.4	104.2

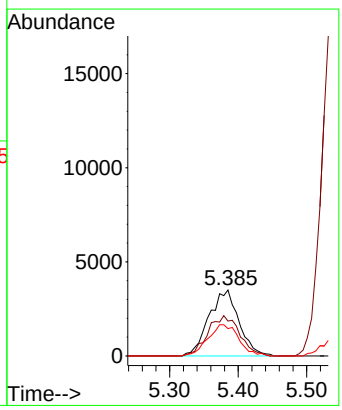


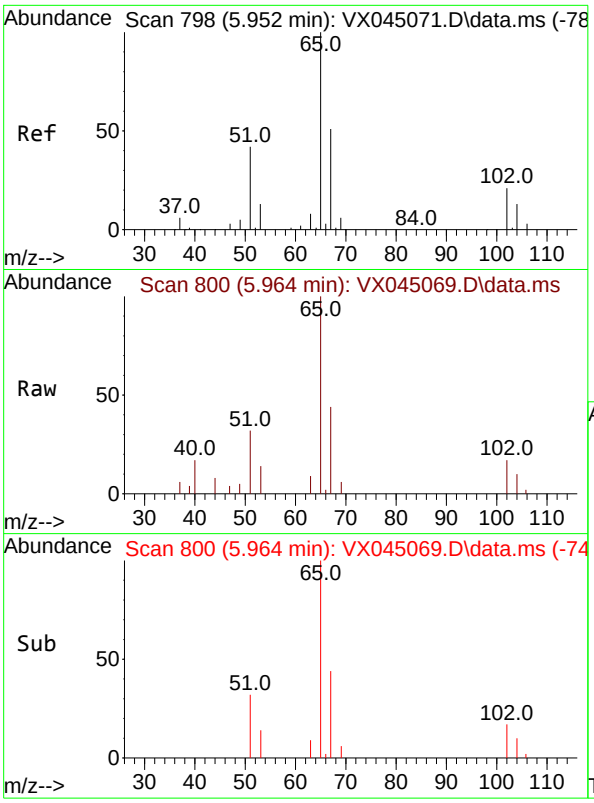


#32
1,1,1-Trichloroethane
Concen: 4.876 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 97 Resp: 10654

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	48.7	38.4	57.6



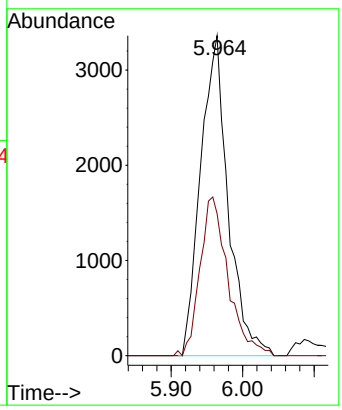


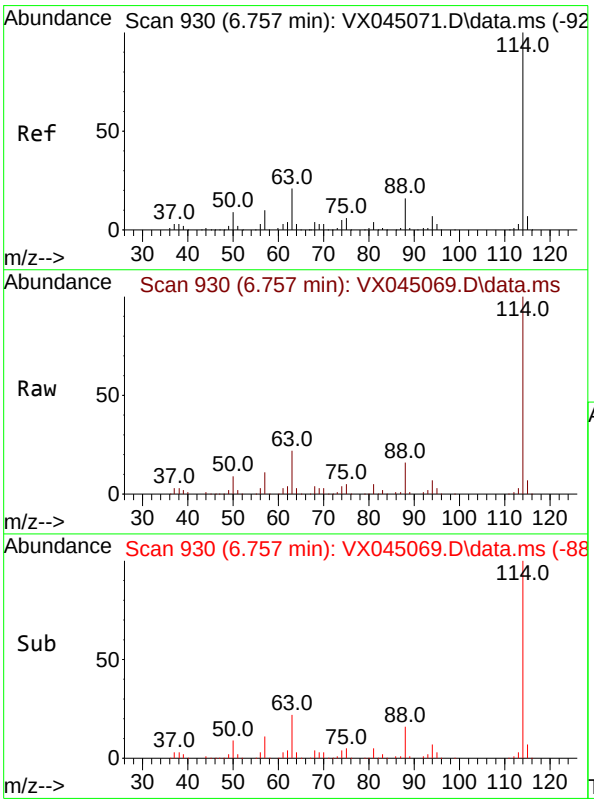
#33
1,2-Dichloroethane-d4
Concen: 5.659 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 8978

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2

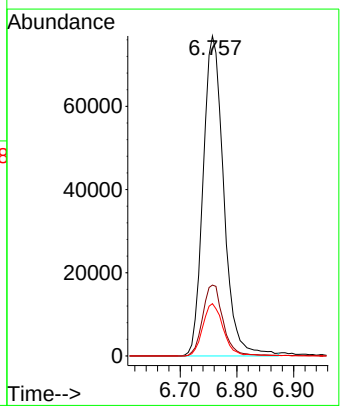


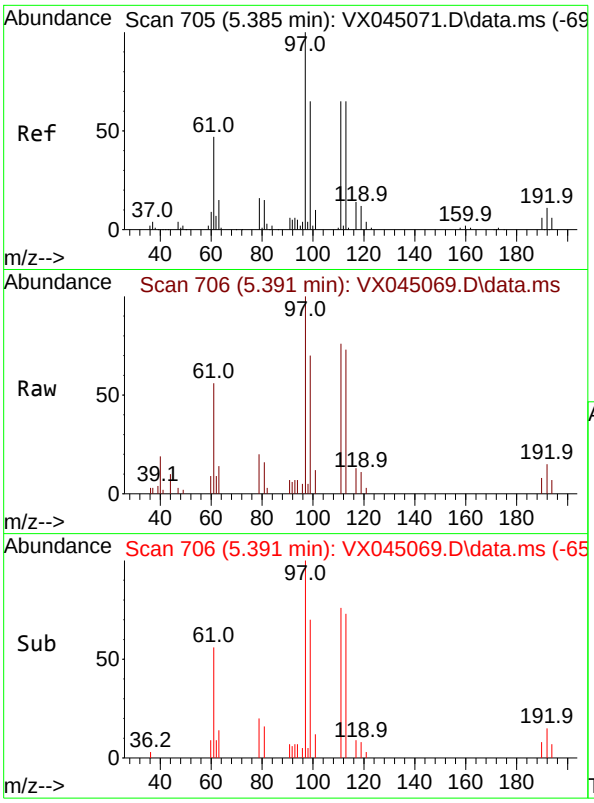


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:114 Resp: 194243

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	41.8
88	16.4	0.0	32.8



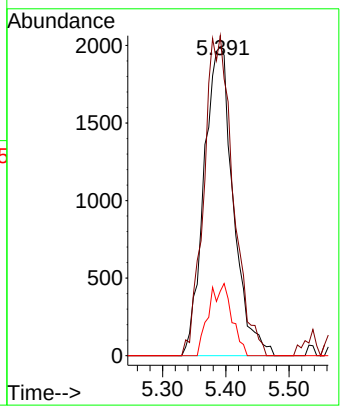


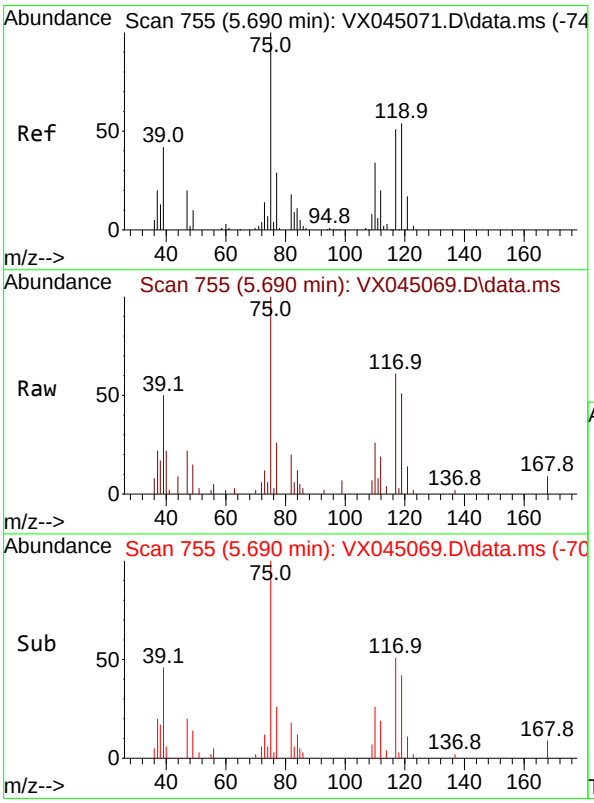
#35
Dibromofluoromethane
Concen: 5.039 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 6398

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	18.3	14.3	21.5

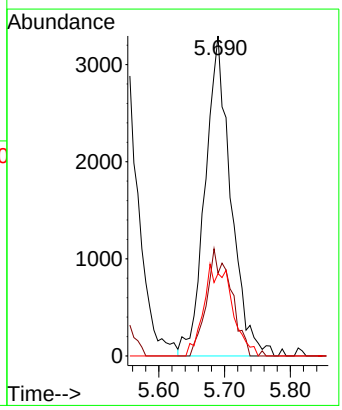


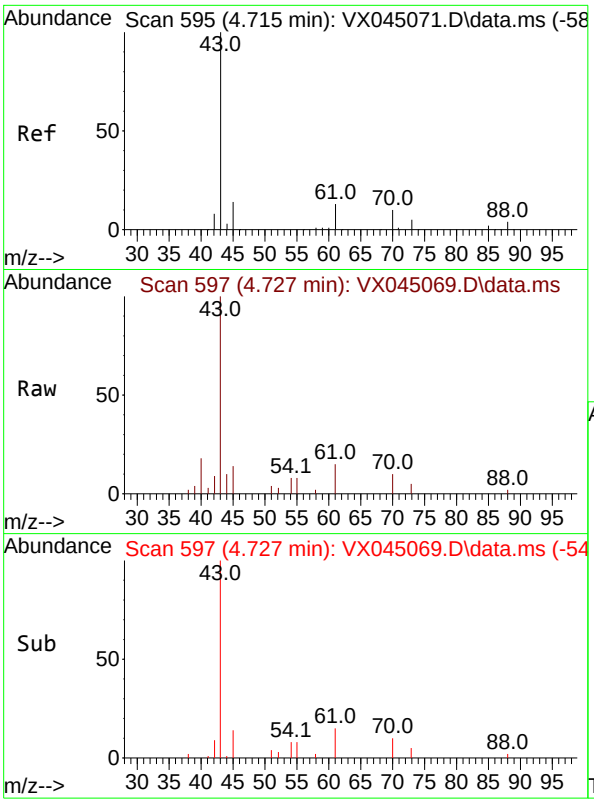


#36
1,1-Dichloropropene
Concen: 4.917 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8977

Ion	Ratio	Lower	Upper
75	100		
110	31.8	16.9	50.6
77	13.2	24.5	36.7#



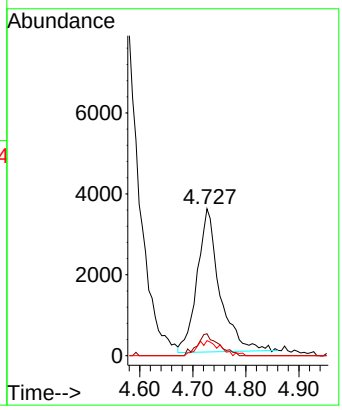


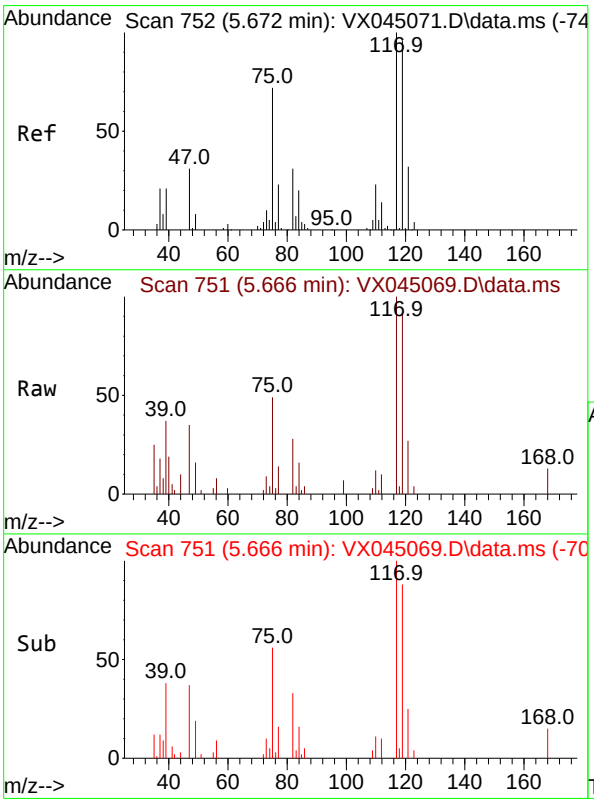
#37
Ethyl Acetate
Concen: 5.035 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 10459

Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.8	16.2
70	10.2	7.7	11.5

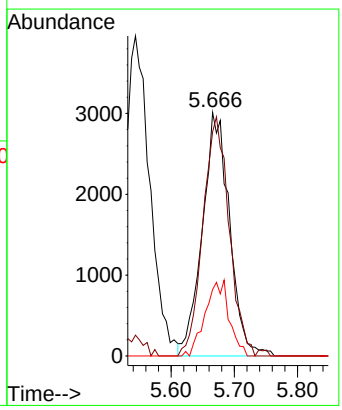


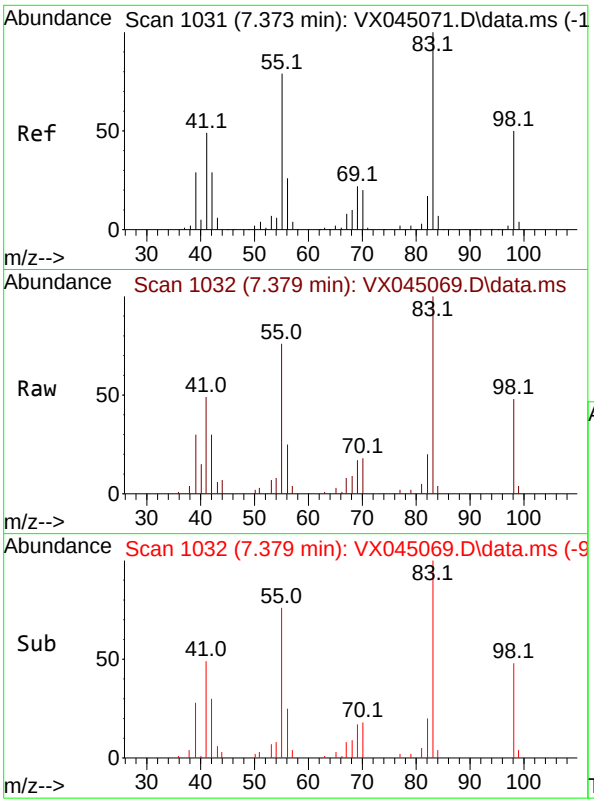


#38
Carbon Tetrachloride
Concen: 5.013 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 8997

Ion	Ratio	Lower	Upper
117	100		
119	92.0	76.7	115.1
121	27.2	25.5	38.3



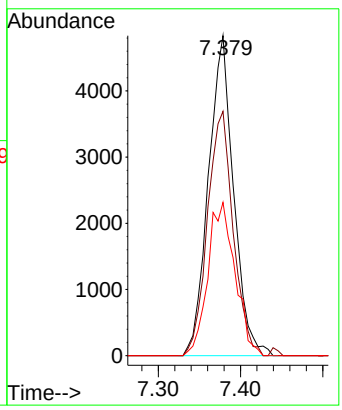


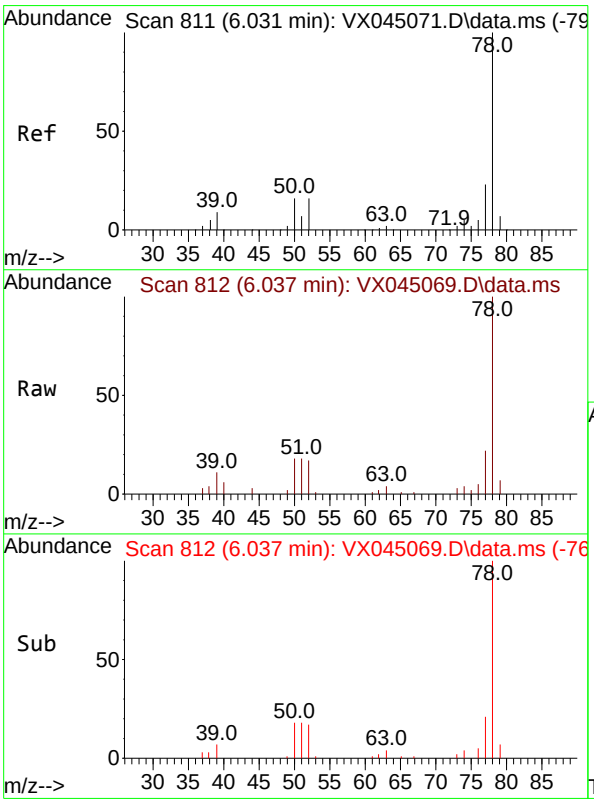
#39
Methylcyclohexane
Concen: 4.414 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 10291

Ion	Ratio	Lower	Upper
83	100		
55	76.4	63.0	94.4
98	47.9	39.7	59.5

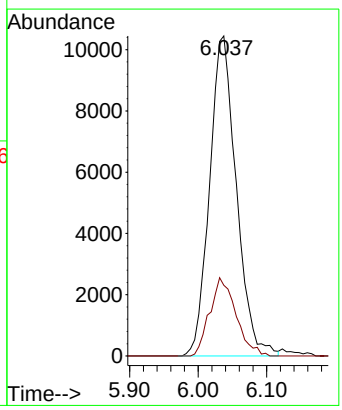


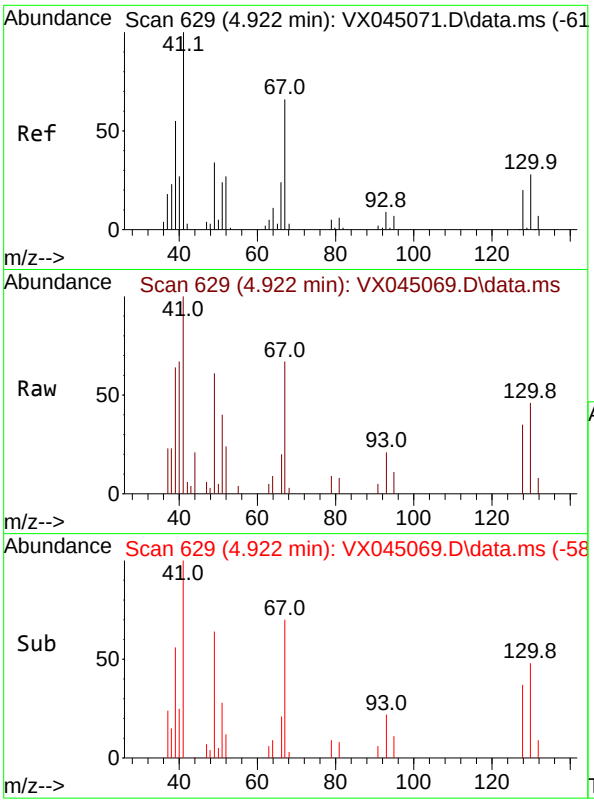


#40
Benzene
Concen: 4.966 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 78 Resp: 28339

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.8	28.2



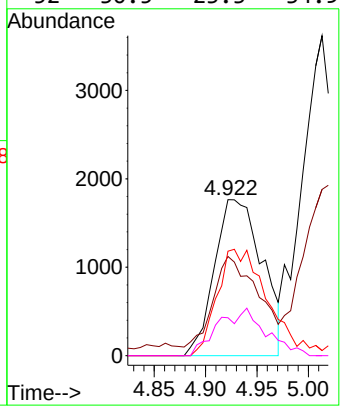


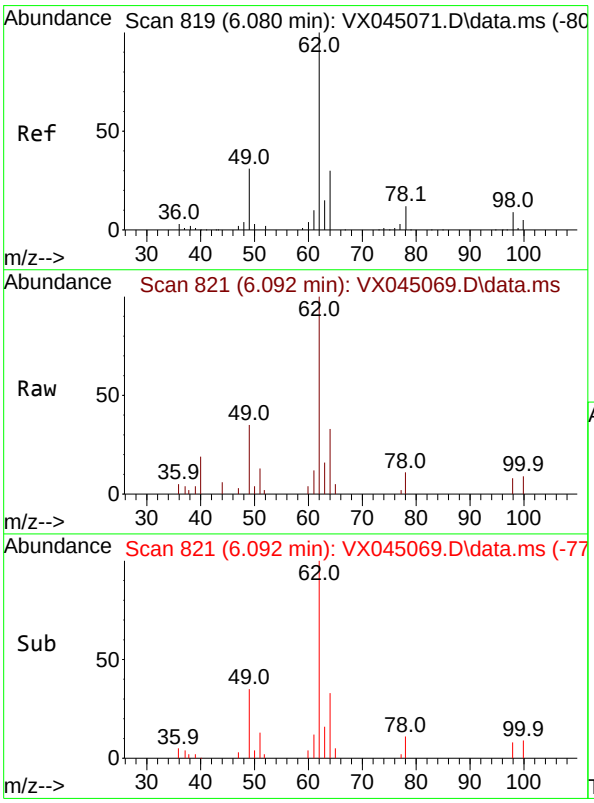
#41
Methacrylonitrile
Concen: 5.136 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 5700

Ion	Ratio	Lower	Upper
41	100		
39	53.3	44.6	67.0
67	73.4	53.9	80.9
52	30.5	23.3	34.9

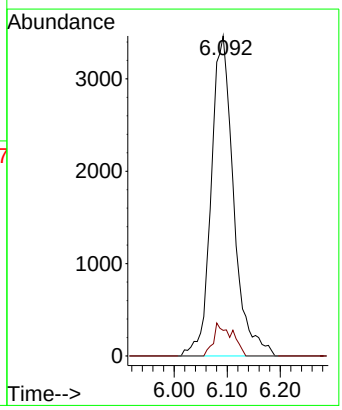


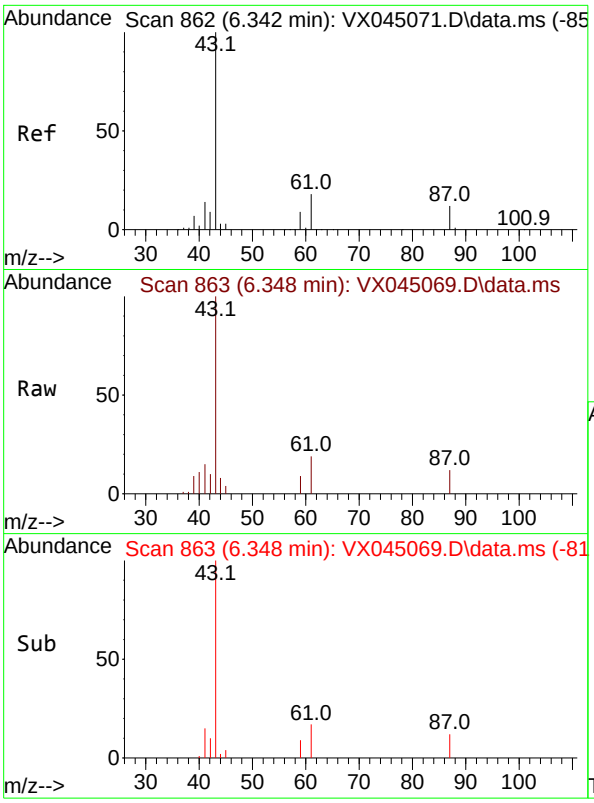


#42
1,2-Dichloroethane
Concen: 5.510 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 10189

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	18.2



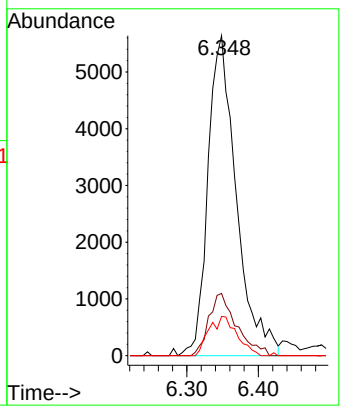


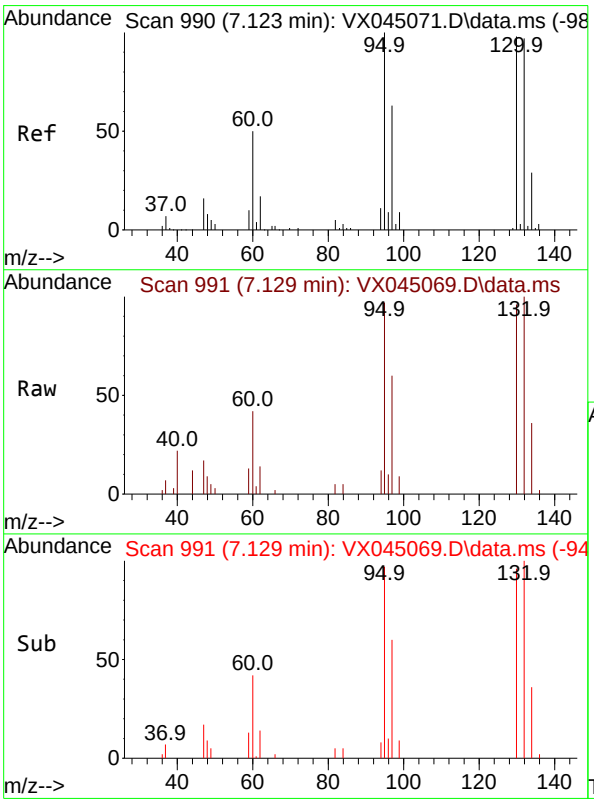
#43
Isopropyl Acetate
Concen: 4.700 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 15543

Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.9	22.3
87	12.1	9.4	14.2

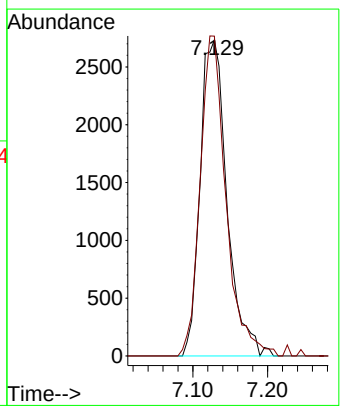


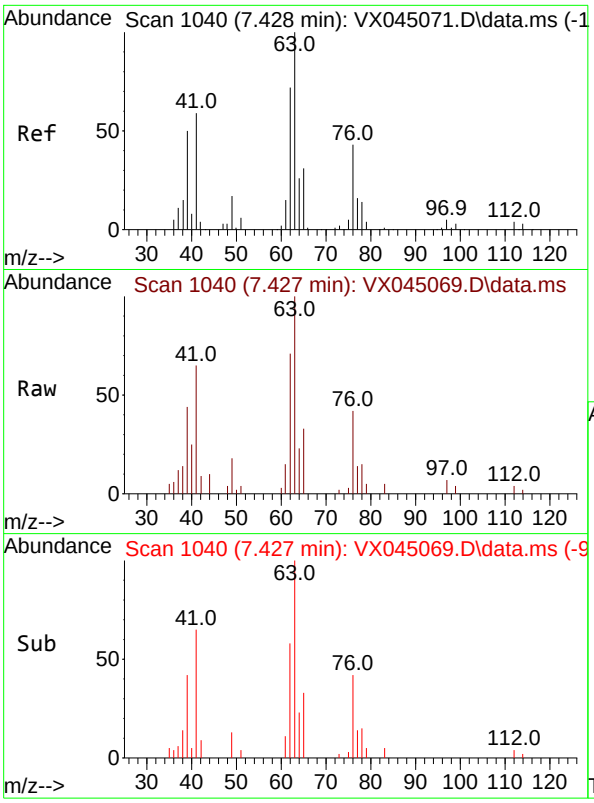


#44
Trichloroethene
Concen: 5.234 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:130 Resp: 6827

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	205.0



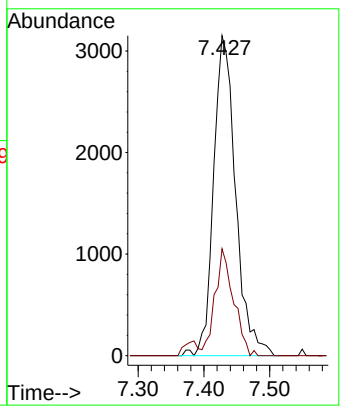


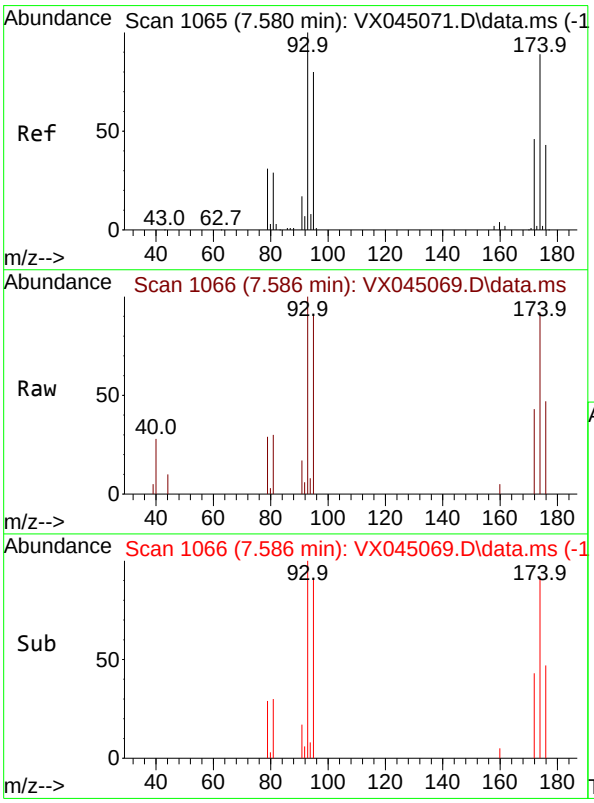
#45
1,2-Dichloropropane
Concen: 5.177 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 7342

Ion	Ratio	Lower	Upper
63	100		
65	33.4	24.7	37.1

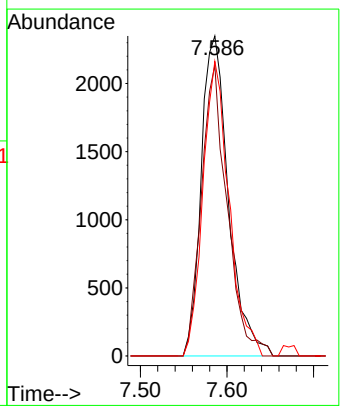


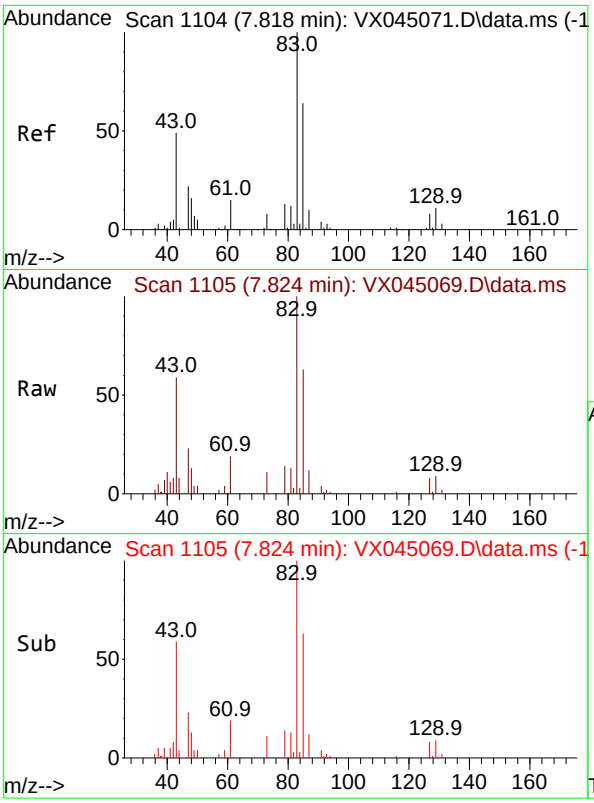


#46
Dibromomethane
Concen: 5.195 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 93 Resp: 5146

Ion	Ratio	Lower	Upper
93	100		
95	86.2	65.8	98.8
174	88.2	72.2	108.2



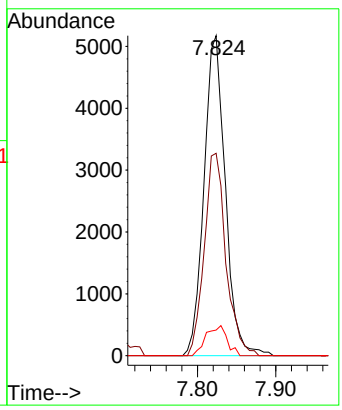


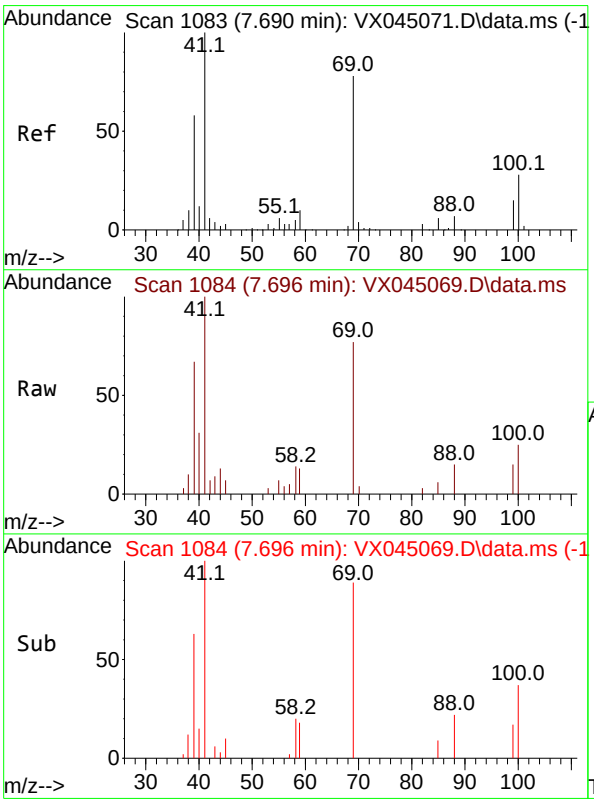
#47
Bromodichloromethane
Concen: 5.100 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 9773

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.1	76.7
127	8.0	6.4	9.6

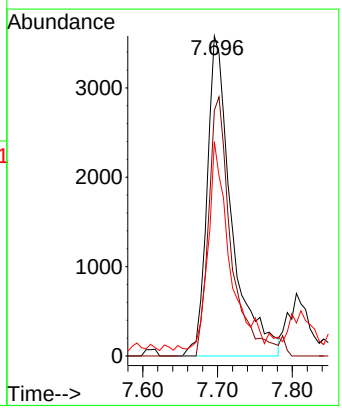


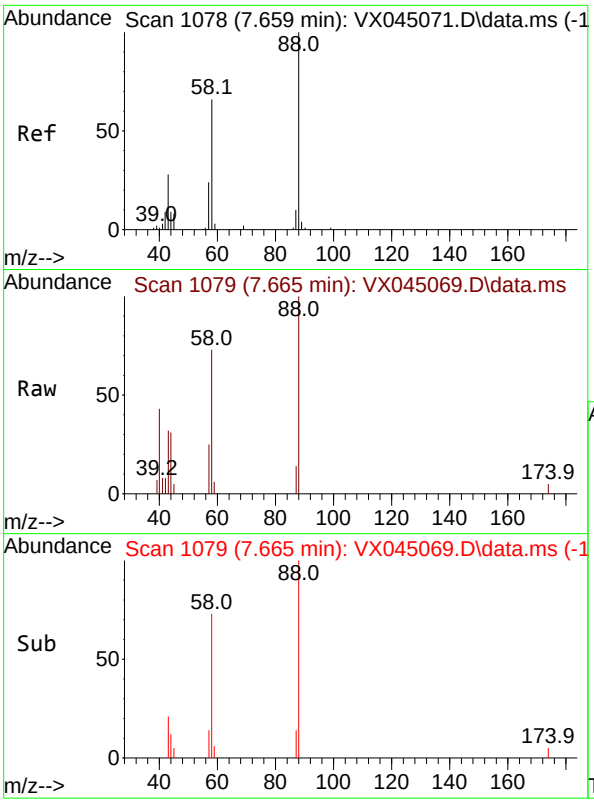


#48
Methyl methacrylate
Concen: 5.224 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 8201

Ion	Ratio	Lower	Upper
41	100		
69	74.0	63.0	94.6
39	55.4	47.5	71.3



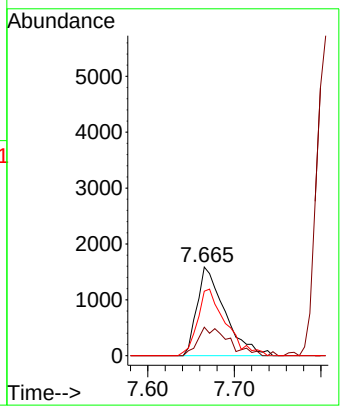


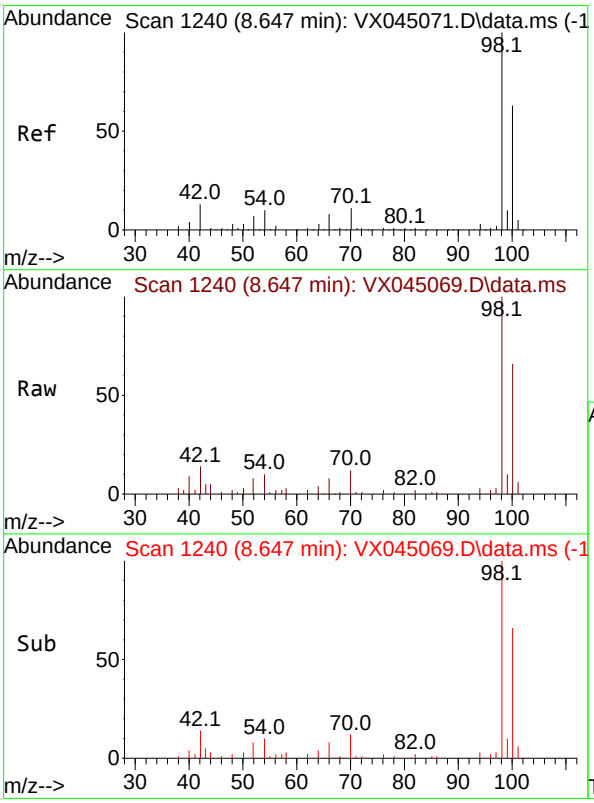
#49
1,4-Dioxane
Concen: 105.826 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 3531

Ion	Ratio	Lower	Upper
88	100		
43	35.2	28.7	43.1
58	75.9	55.8	83.8

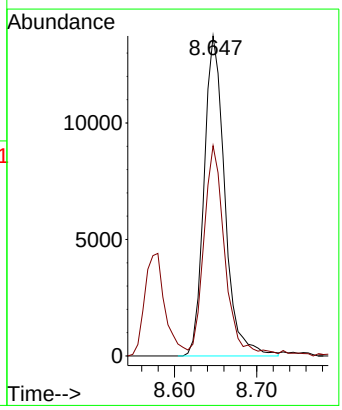


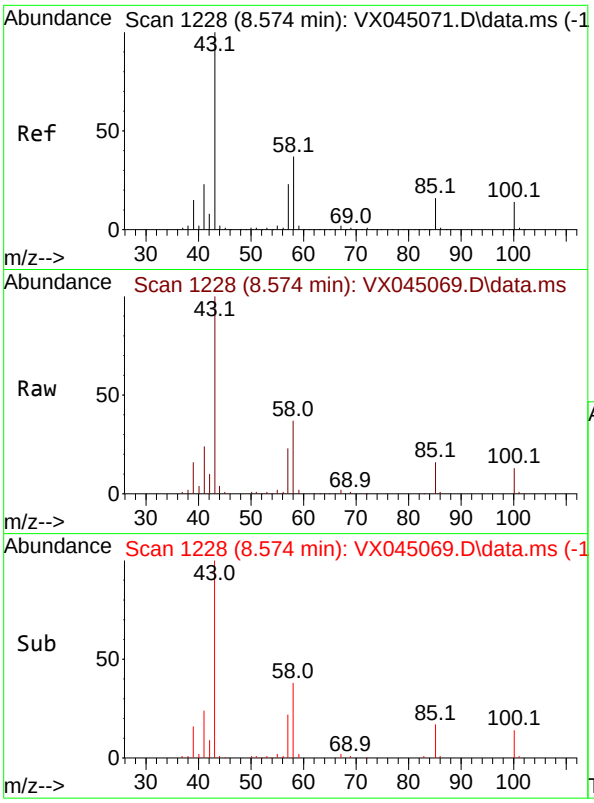


#50
Toluene-d8
Concen: 5.057 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 98 Resp: 24037

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0



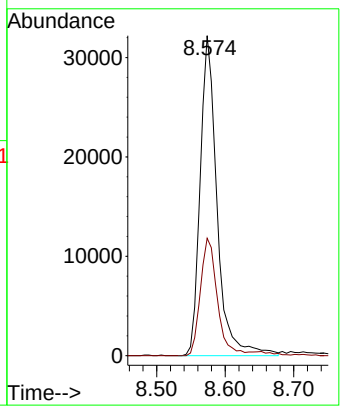


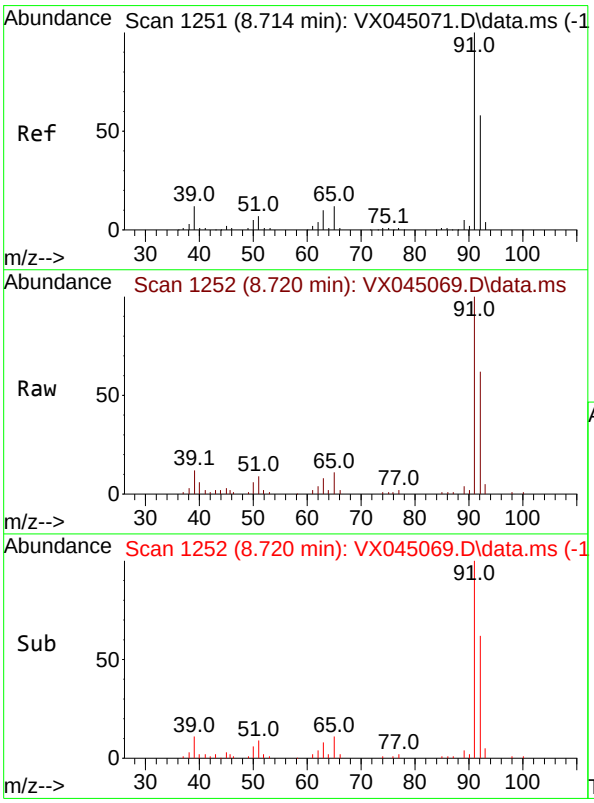
#51
4-Methyl-2-Pentanone
Concen: 27.303 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 55320

Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.2	43.8

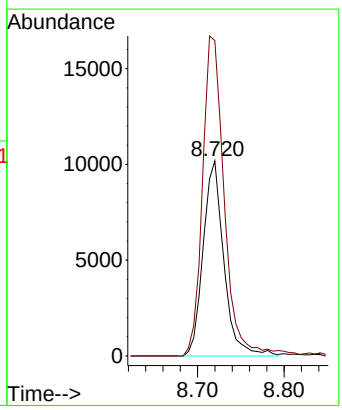


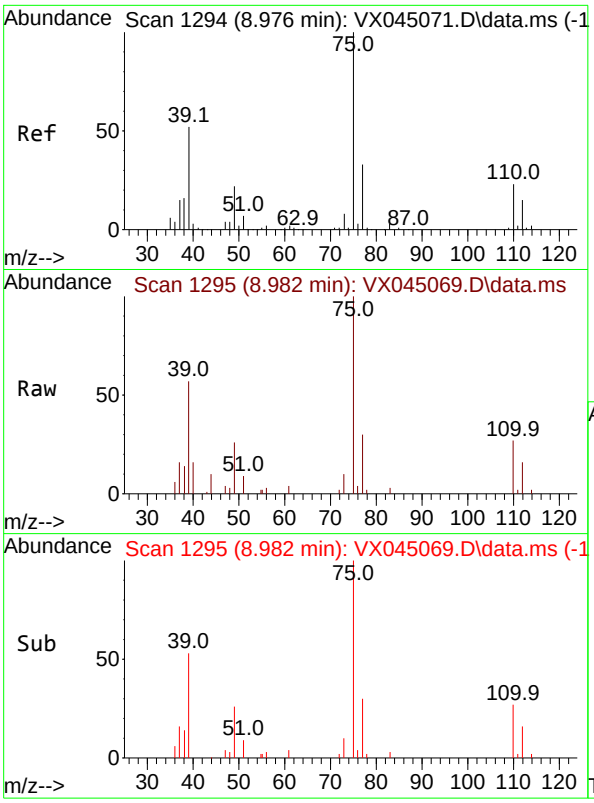


#52
Toluene
Concen: 4.997 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 92 Resp: 16933

Ion	Ratio	Lower	Upper
92	100		
91	172.6	138.9	208.3



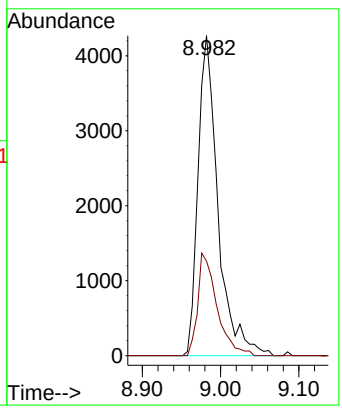


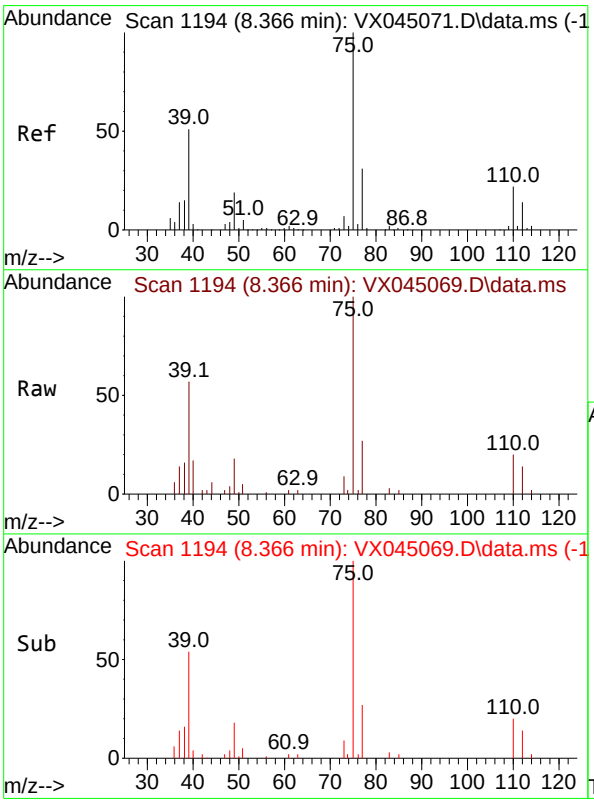
#53
t-1,3-Dichloropropene
Concen: 3.985 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 7548

Ion	Ratio	Lower	Upper
75	100		
77	29.6	26.5	39.7

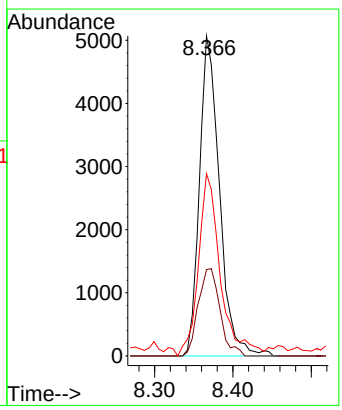


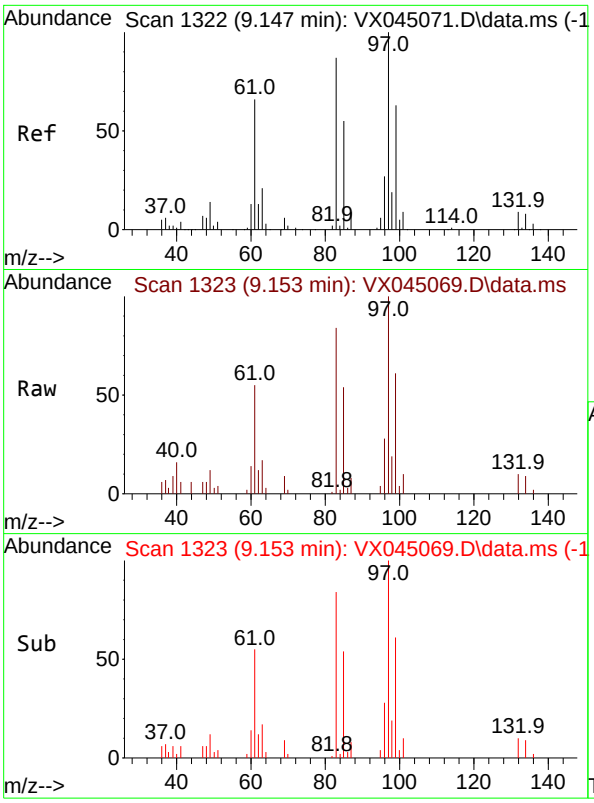


#54
cis-1,3-Dichloropropene
Concen: 4.244 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8988

Ion	Ratio	Lower	Upper
75	100		
77	27.0	24.7	37.1
39	57.0	40.7	61.1



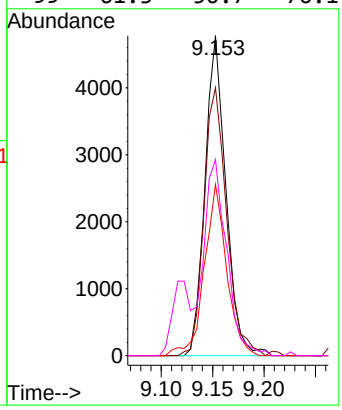


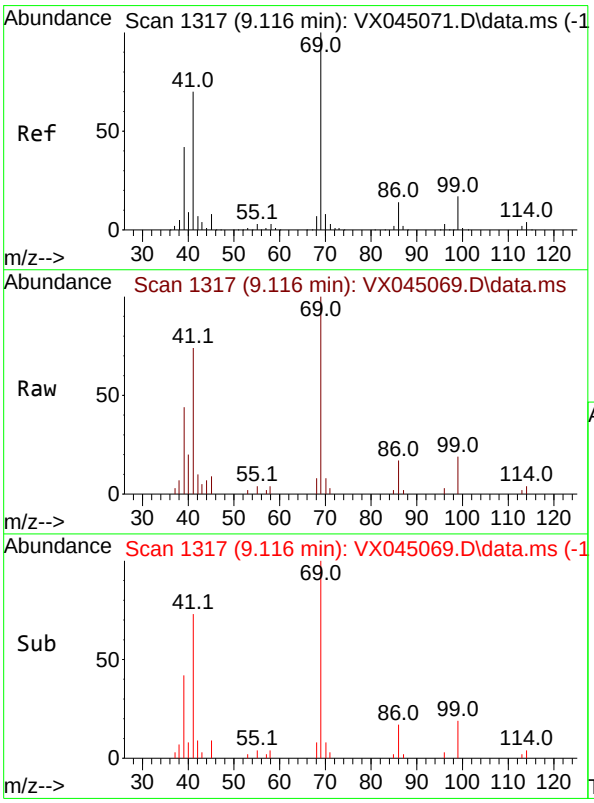
#55
1,1,2-Trichloroethane
Concen: 5.151 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 6759

Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.4	104.2
85	53.6	44.1	66.1
99	61.3	50.7	76.1

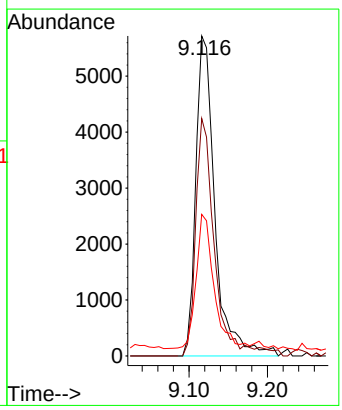


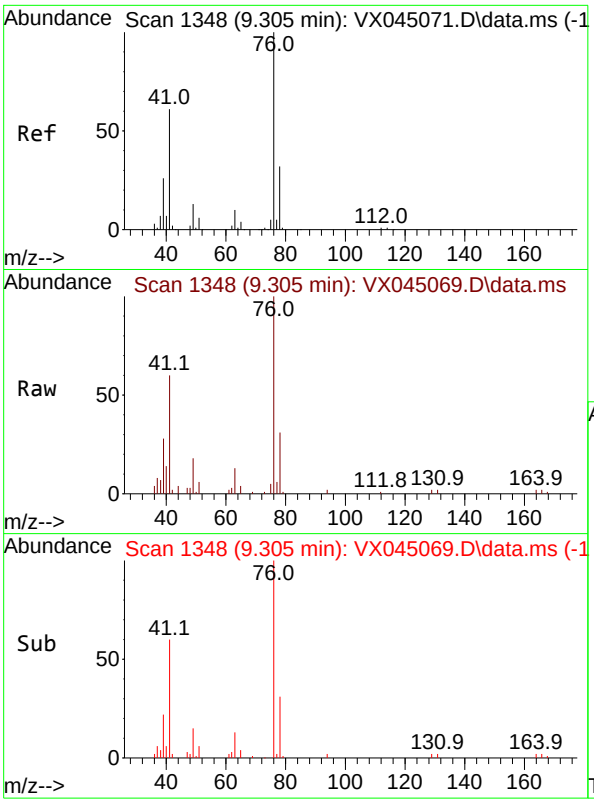


#56
Ethyl methacrylate
Concen: 4.628 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 69 Resp: 9712

Ion	Ratio	Lower	Upper
69	100		
41	71.0	57.0	85.4
39	39.2	34.2	51.4



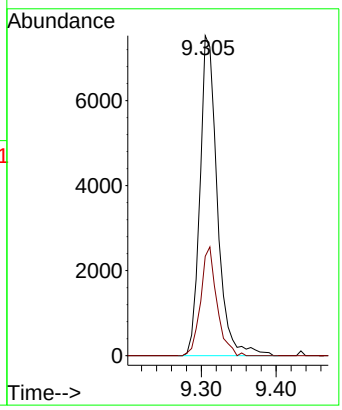


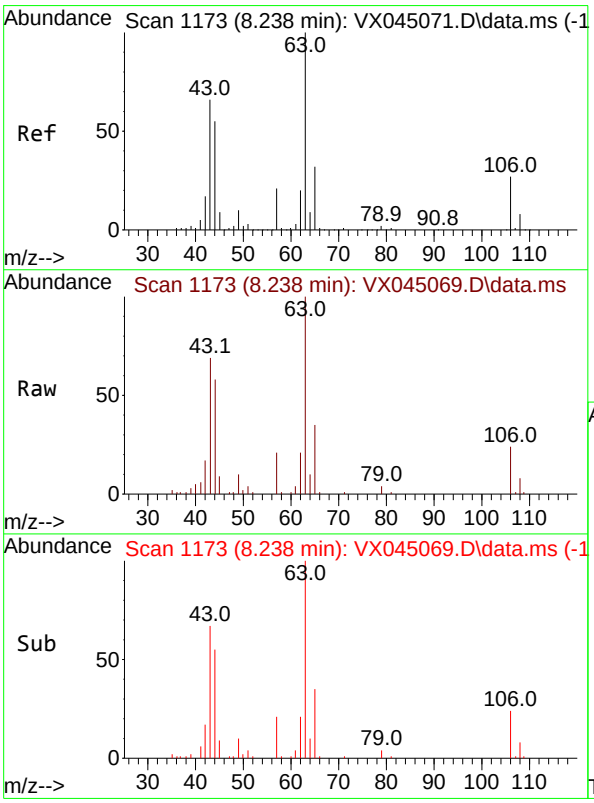
#57
1,3-Dichloropropane
Concen: 5.289 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 12106

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

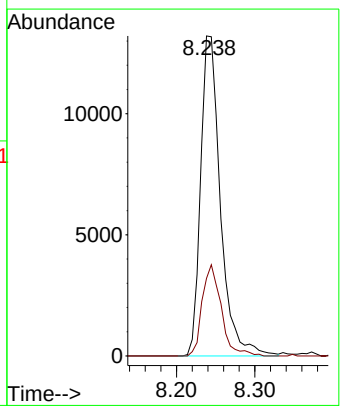


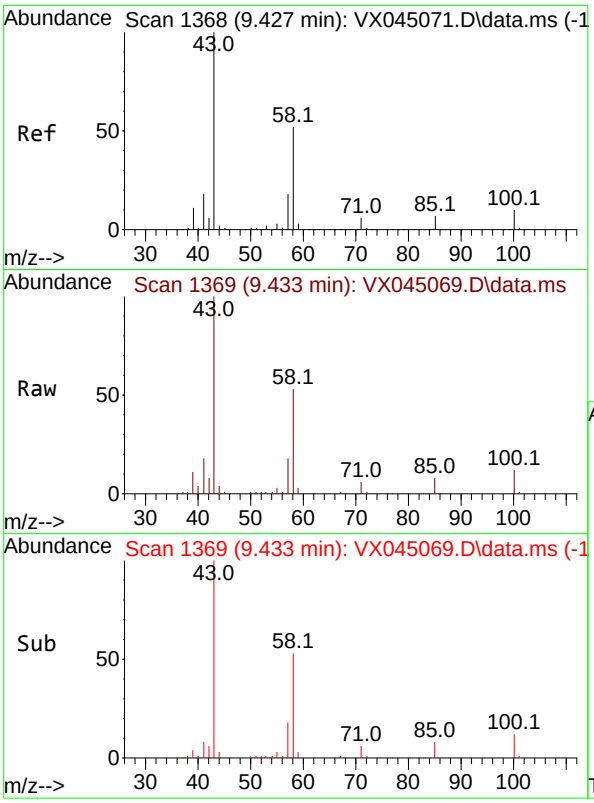


#58
2-Chloroethyl Vinyl ether
Concen: 22.527 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 23212

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.5	32.3



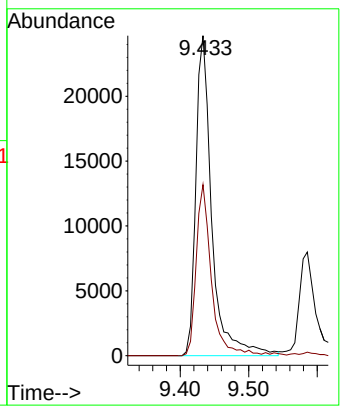


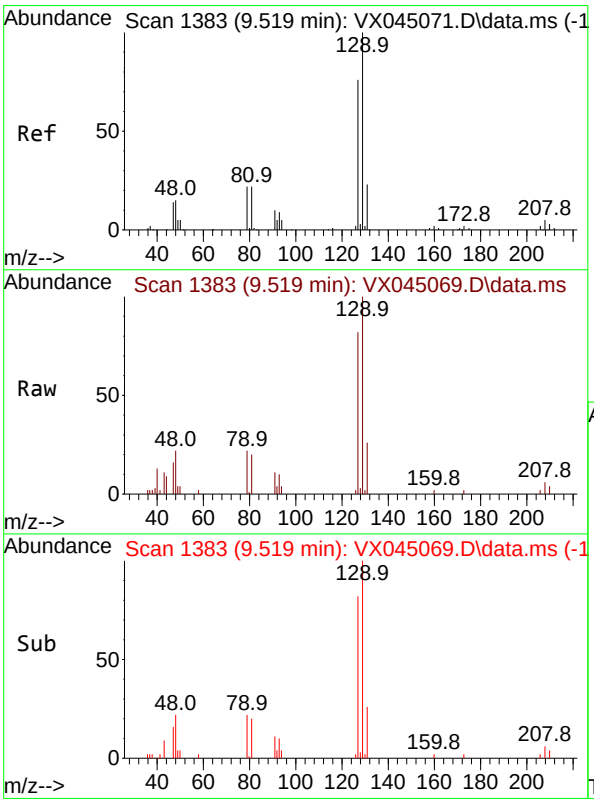
#59
2-Hexanone
Concen: 27.363 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 39994

Ion	Ratio	Lower	Upper
43	100		
58	50.7	25.9	77.6

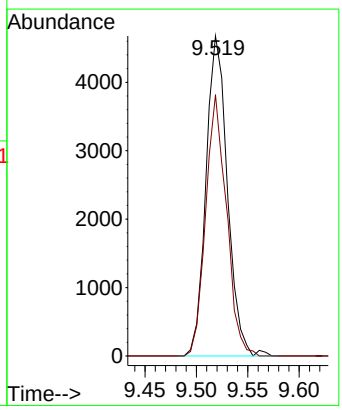


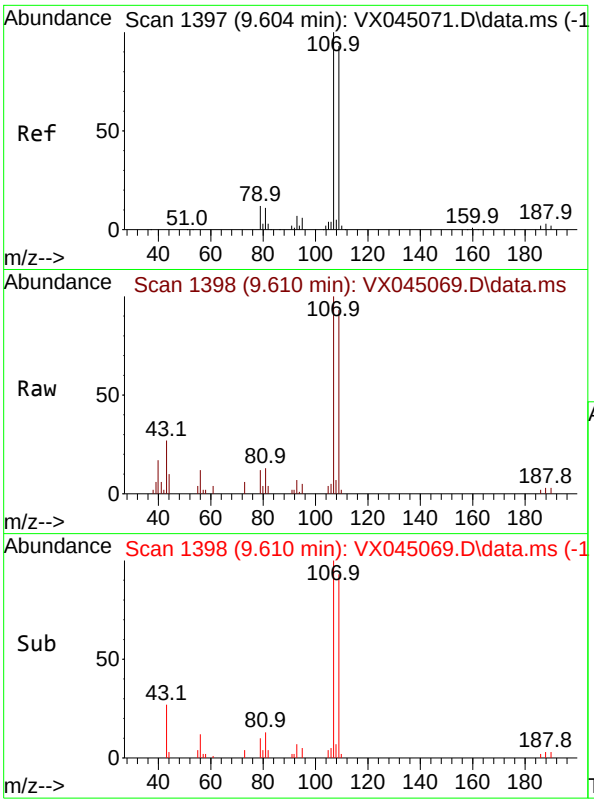


#60
Dibromochloromethane
Concen: 4.846 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:129 Resp: 6785

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5



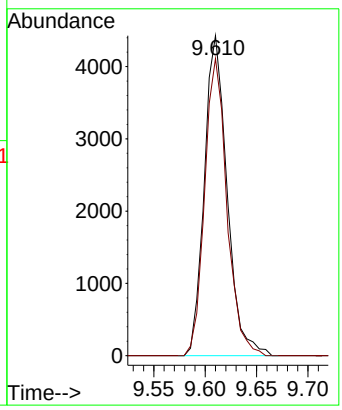


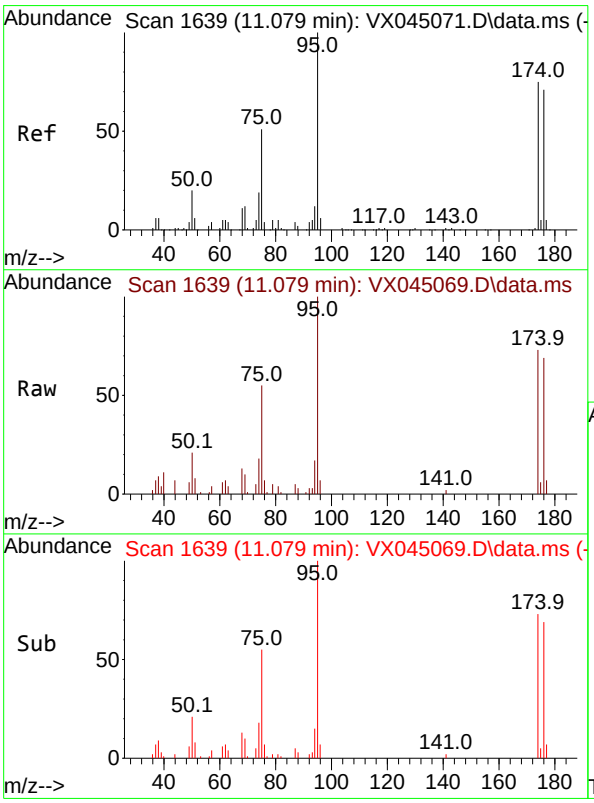
#61
1,2-Dibromoethane
Concen: 5.161 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 6832

Ion	Ratio	Lower	Upper
107	100		
109	90.7	76.1	114.1

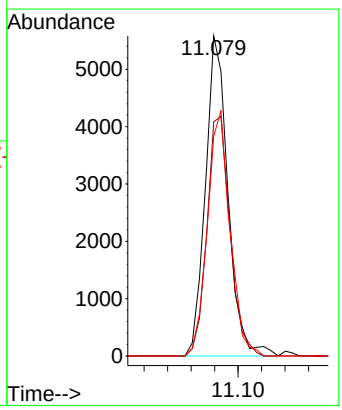


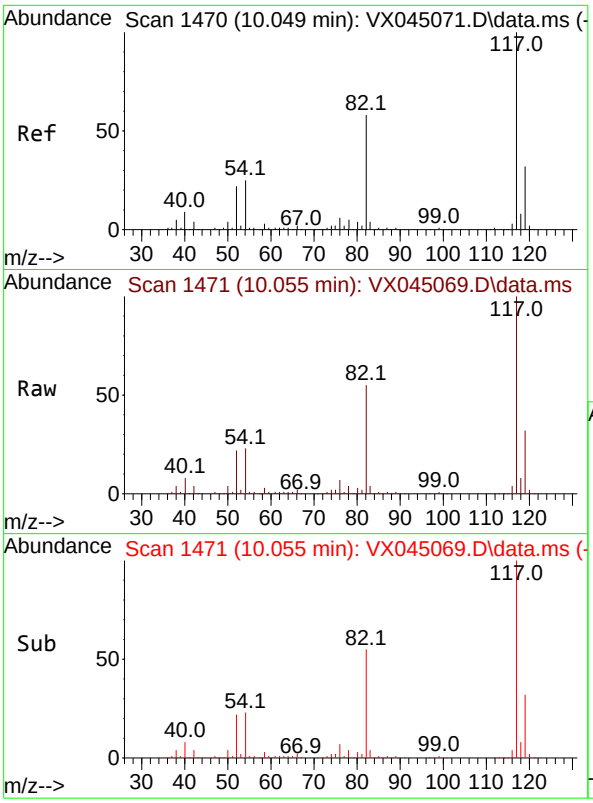


#62
4-Bromofluorobenzene
Concen: 4.685 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 95 Resp: 7436

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	148.2
176	76.3	0.0	141.4



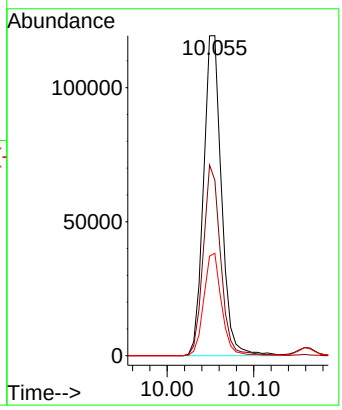


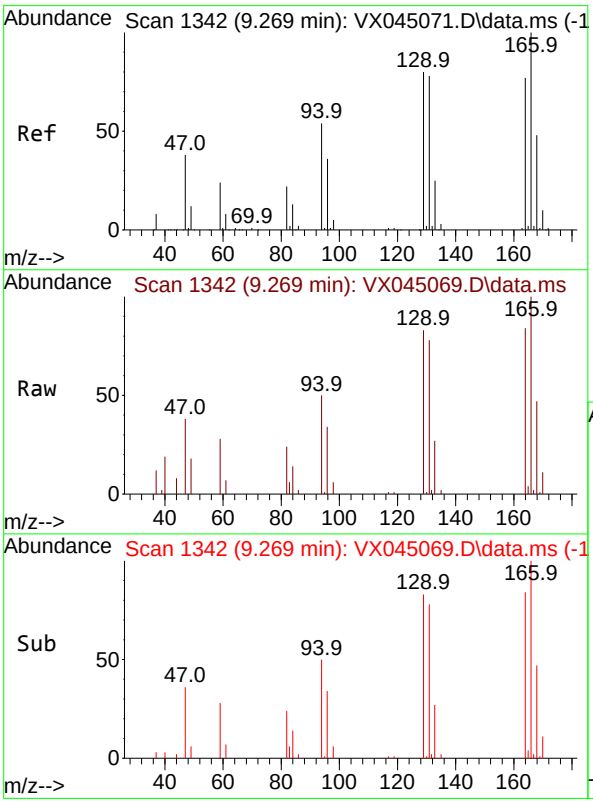
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 172367

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.3	69.5
119	32.0	25.7	38.5

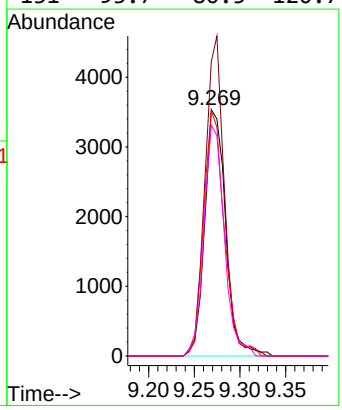


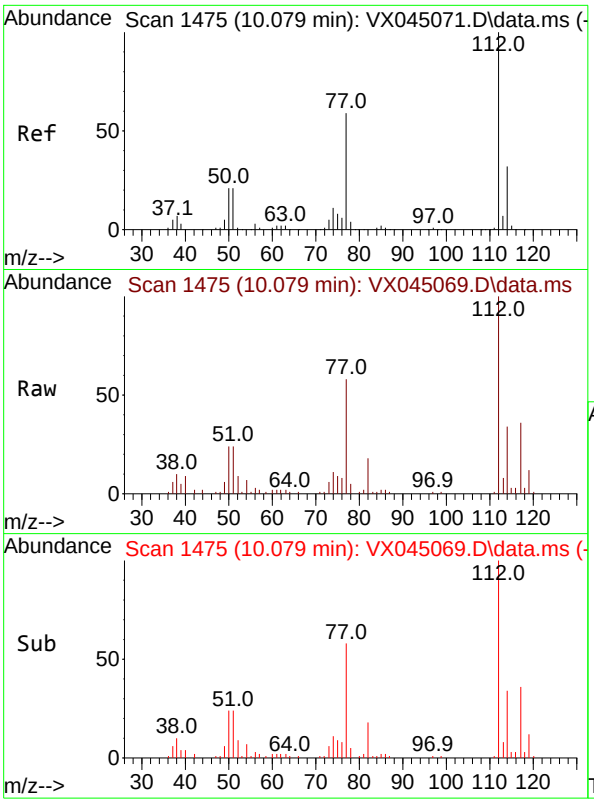


#64
Tetrachloroethene
Concen: 5.128 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:164 Resp: 5615

Ion	Ratio	Lower	Upper
164	100		
166	119.5	103.6	155.4
129	99.7	82.7	124.1
131	93.7	80.5	120.7



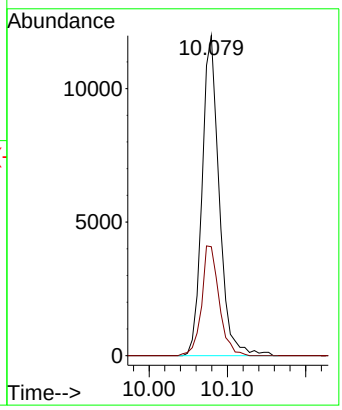


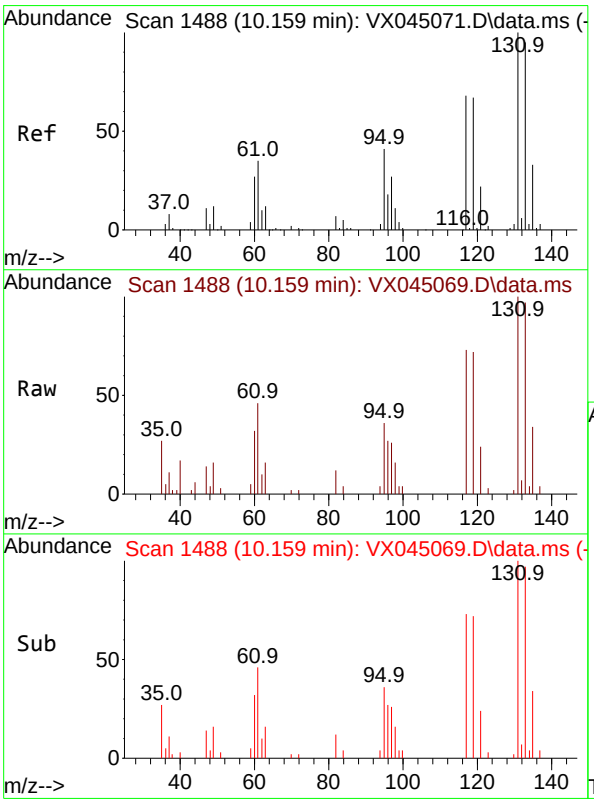
#65
Chlorobenzene
Concen: 4.908 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 18161

Ion	Ratio	Lower	Upper
112	100		
114	34.0	26.0	39.0

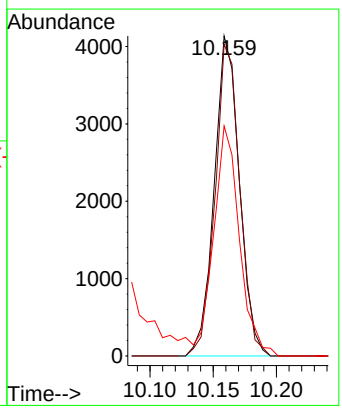


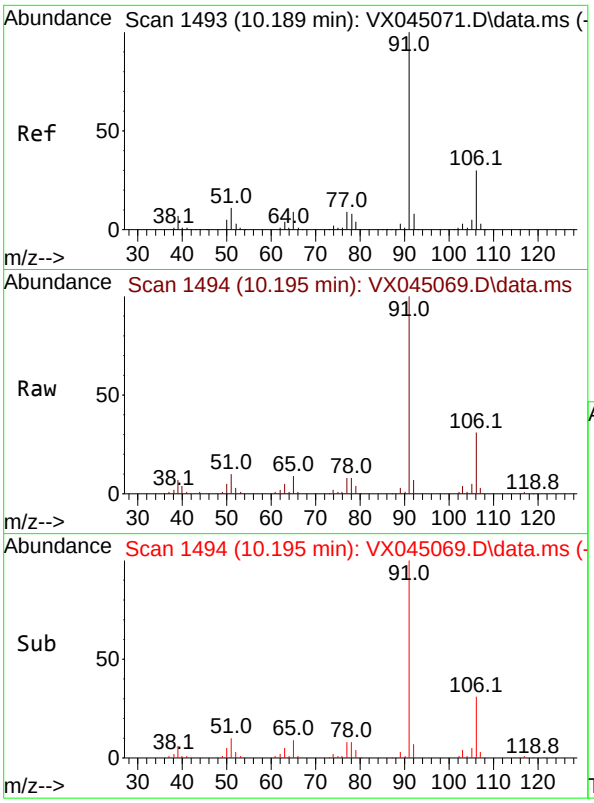


#66
1,1,1,2-Tetrachloroethane
Concen: 4.781 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:131 Resp: 5702

Ion	Ratio	Lower	Upper
131	100		
133	96.1	48.6	145.9
119	73.4	33.9	101.7



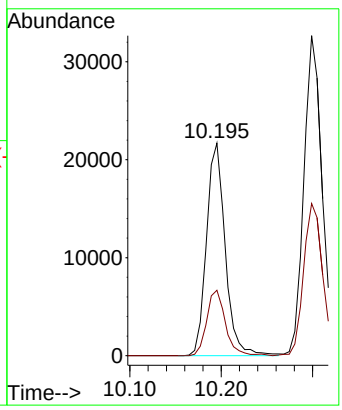


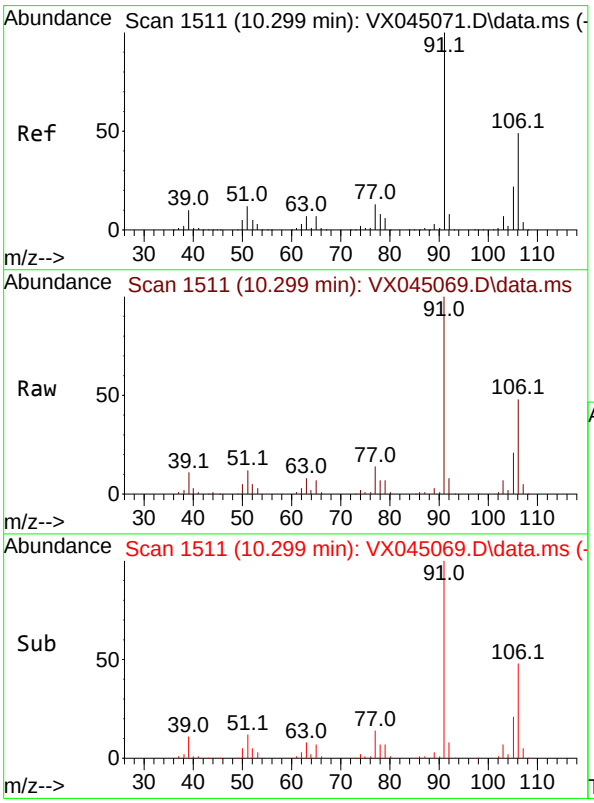
#67
Ethyl Benzene
Concen: 4.725 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 30918

Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.9	35.9

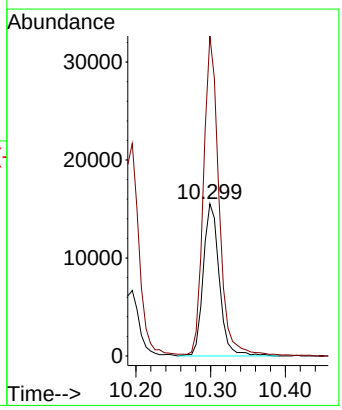


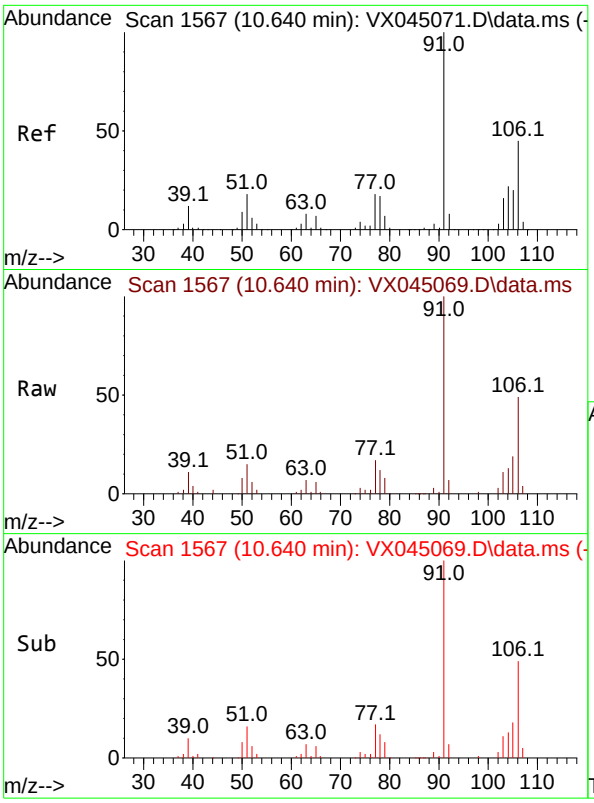


#68
m/p-Xylenes
Concen: 9.608 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:106 Resp: 23152

Ion	Ratio	Lower	Upper
106	100		
91	202.7	165.4	248.0



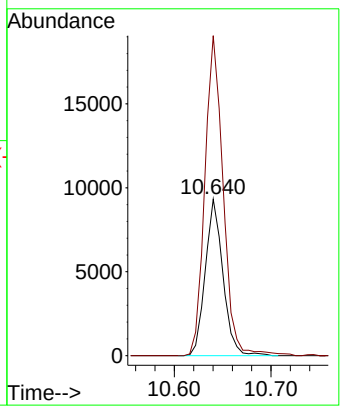


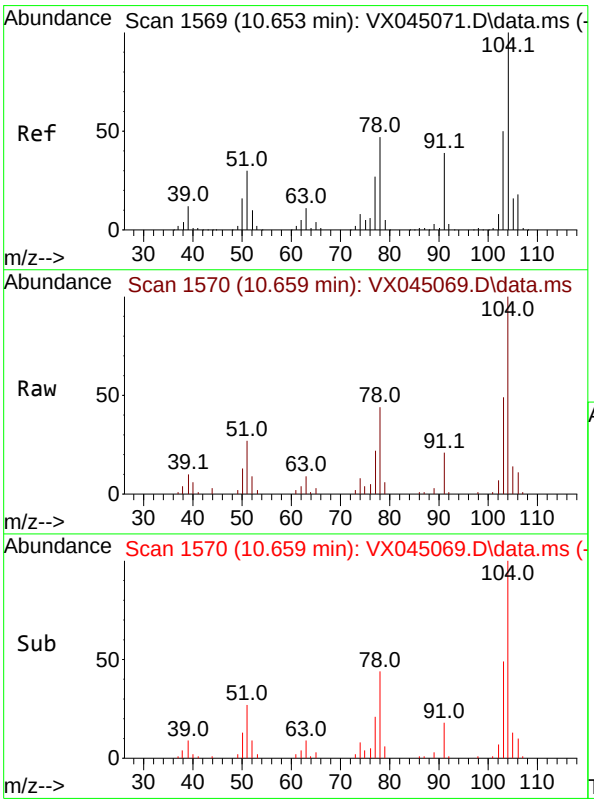
#69
o-Xylene
Concen: 4.914 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 11881

Ion	Ratio	Lower	Upper
106	100		
91	211.7	109.9	329.6

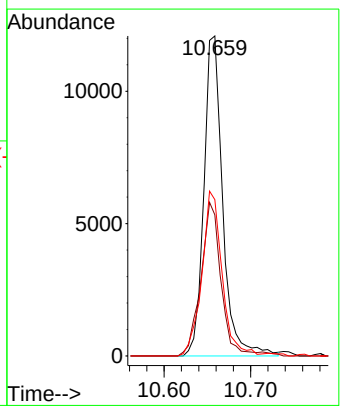


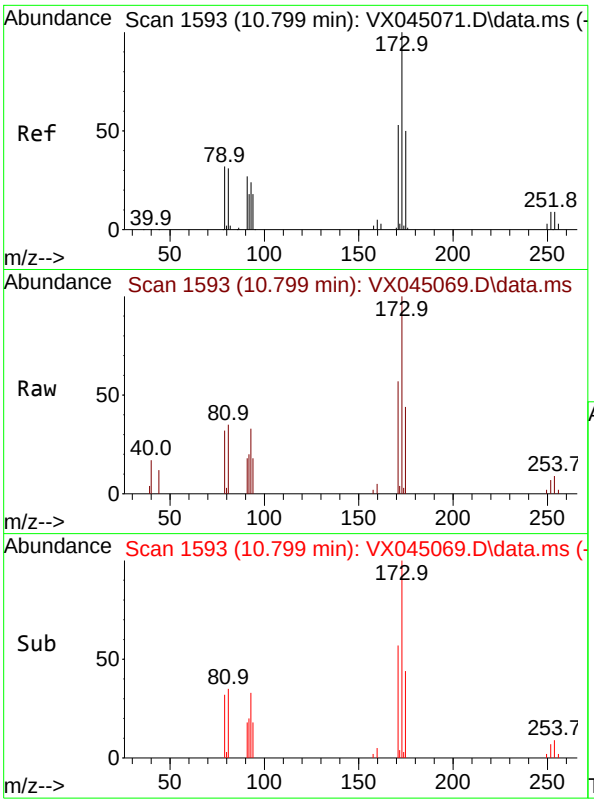


#70
Styrene
Concen: 4.704 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:104 Resp: 18278

Ion	Ratio	Lower	Upper
104	100		
78	51.7	42.2	63.4
103	55.3	43.8	65.8



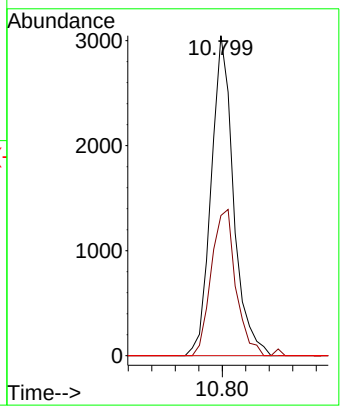


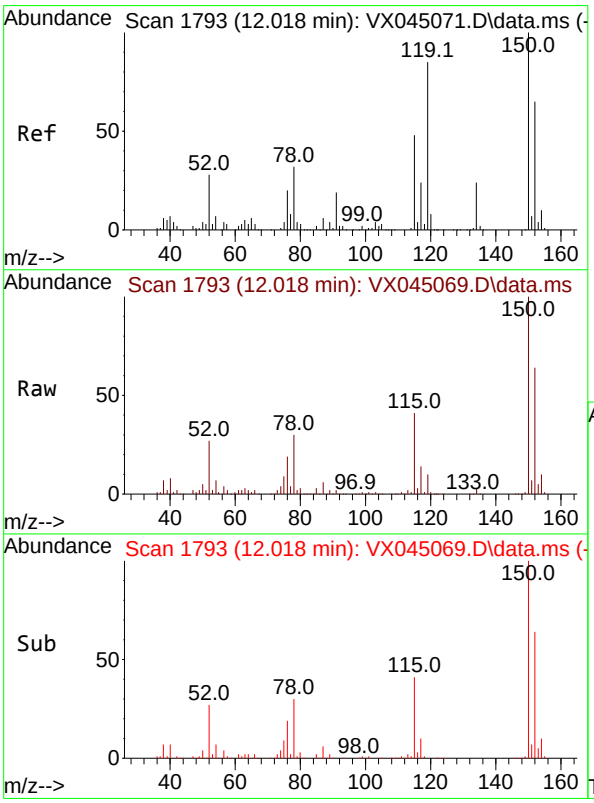
#71
Bromoform
Concen: 4.541 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 4027

Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.6	73.6
254	0.0	0.0	0.0

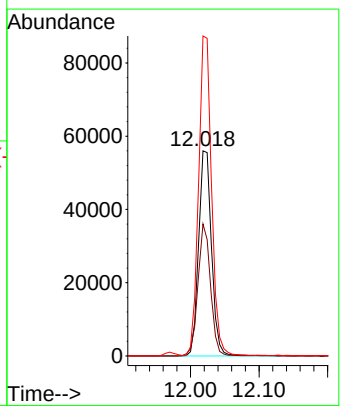


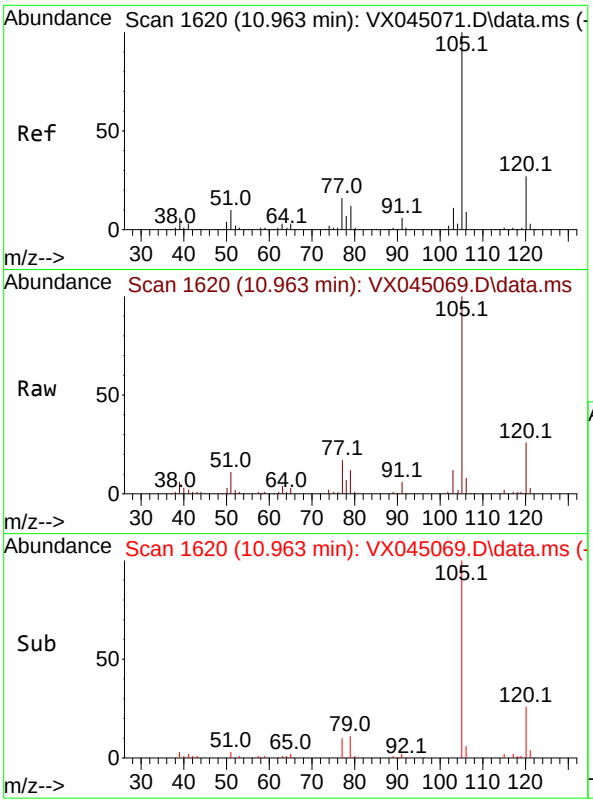


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:152 Resp: 73591

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.2	132.6
150	156.2	0.0	349.0



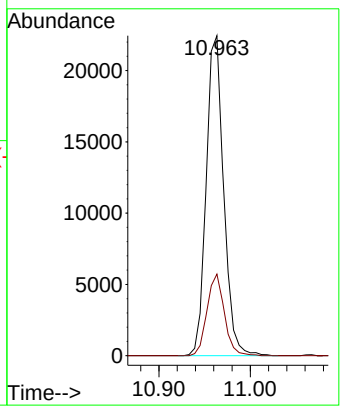


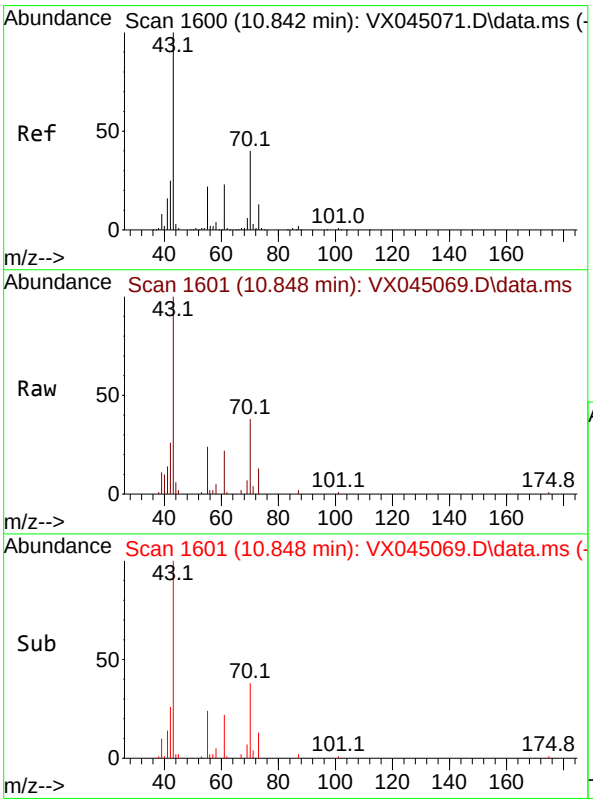
#73
Isopropylbenzene
Concen: 4.991 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 29685

Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.2	39.5

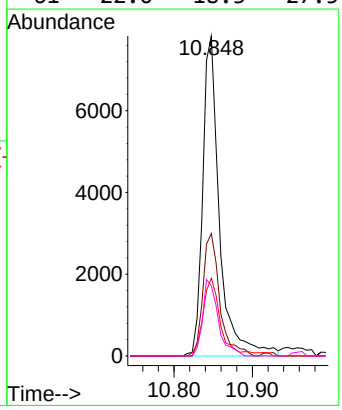


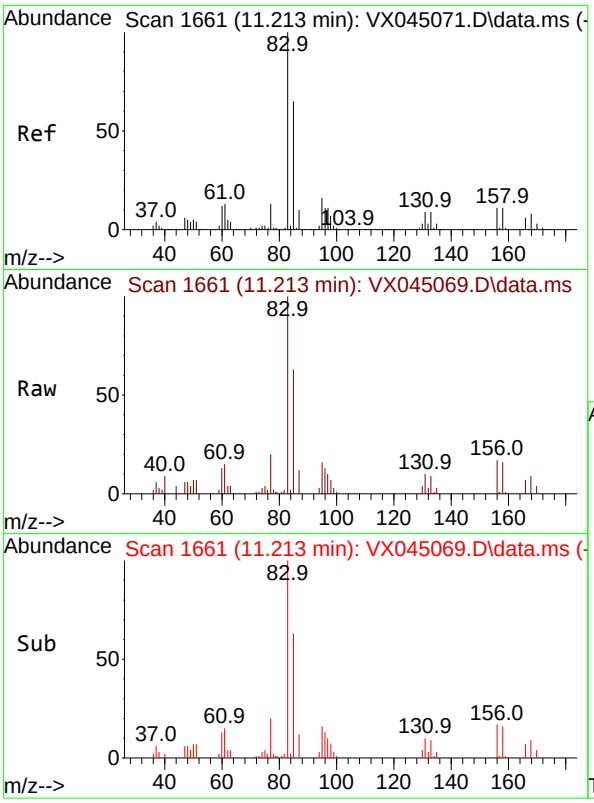


#74
N-amyl acetate
Concen: 4.300 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 11609

Ion	Ratio	Lower	Upper
43	100		
70	38.1	31.8	47.6
55	25.9	18.3	27.5
61	22.0	18.3	27.5



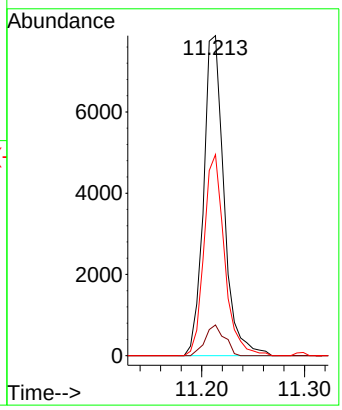


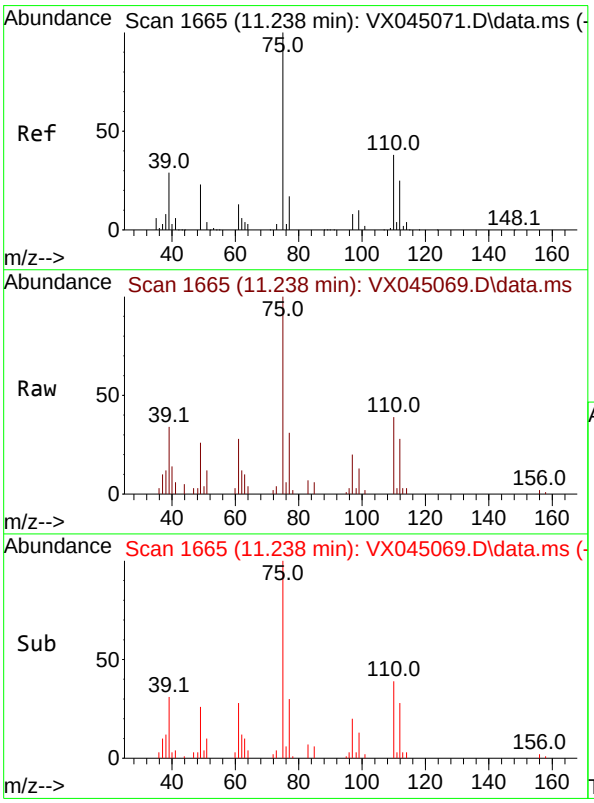
#75
1,1,2,2-Tetrachloroethane
Concen: 5.310 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 10881

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	63.1	31.7	95.1

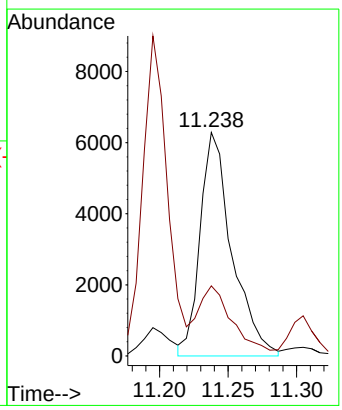


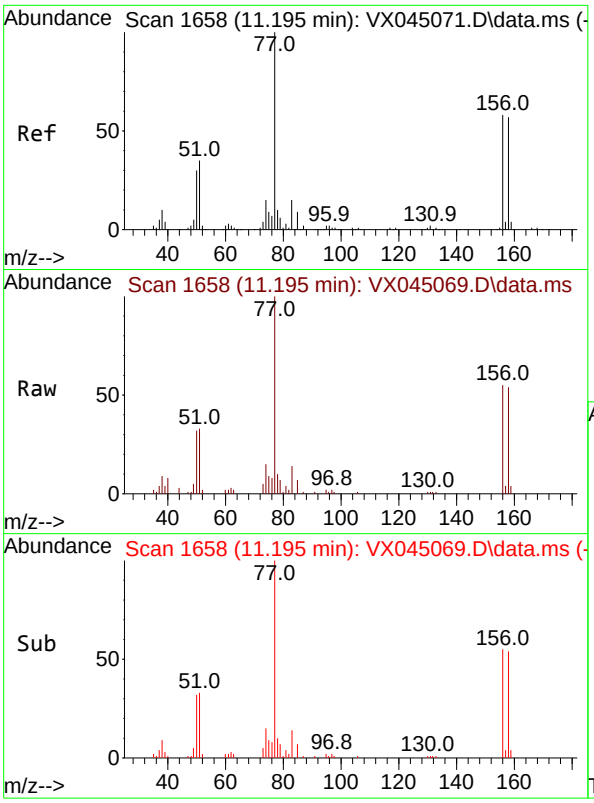


#76
1,2,3-Trichloropropane
Concen: 6.189 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 10159

Ion	Ratio	Lower	Upper
75	100		
77	34.6	20.7	62.1



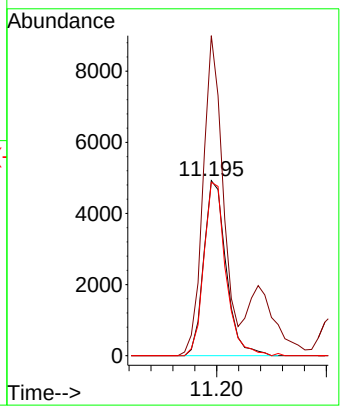


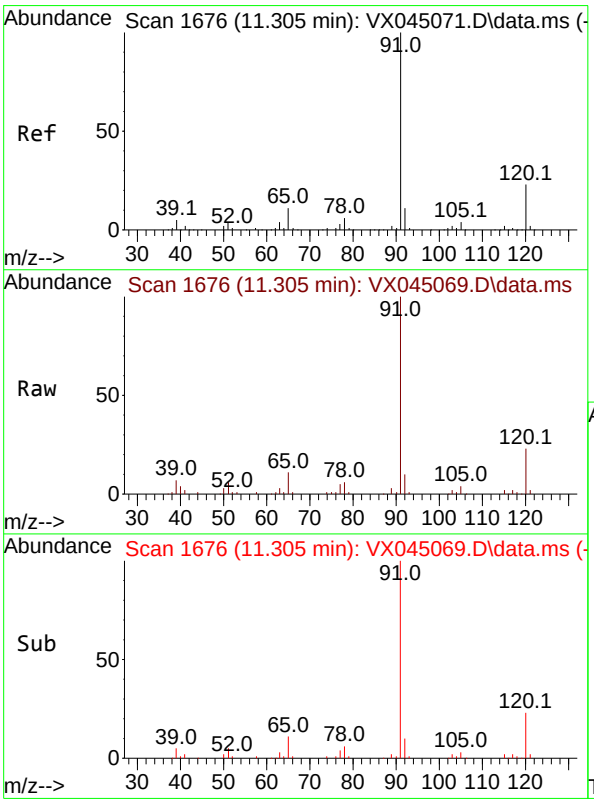
#77
Bromobenzene
Concen: 5.163 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 6970

Ion	Ratio	Lower	Upper
156	100		
77	163.3	85.8	257.4
158	97.8	48.4	145.2

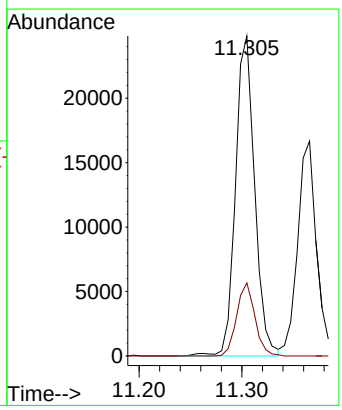


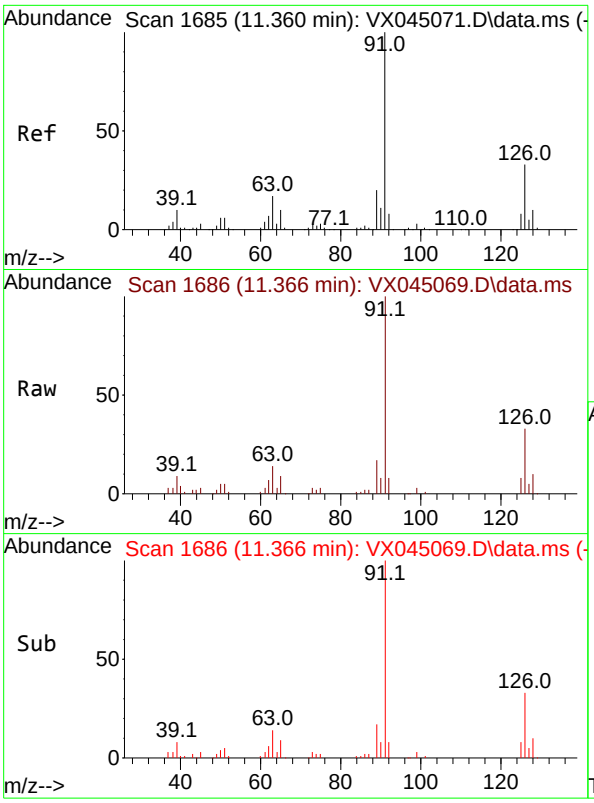


#78
n-propylbenzene
Concen: 4.694 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 32196

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.2	33.6



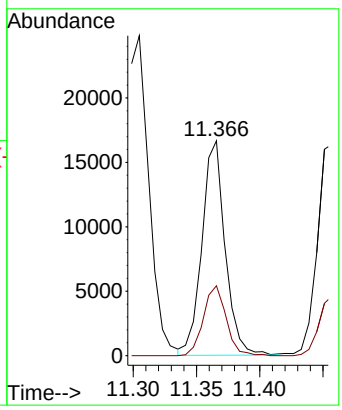


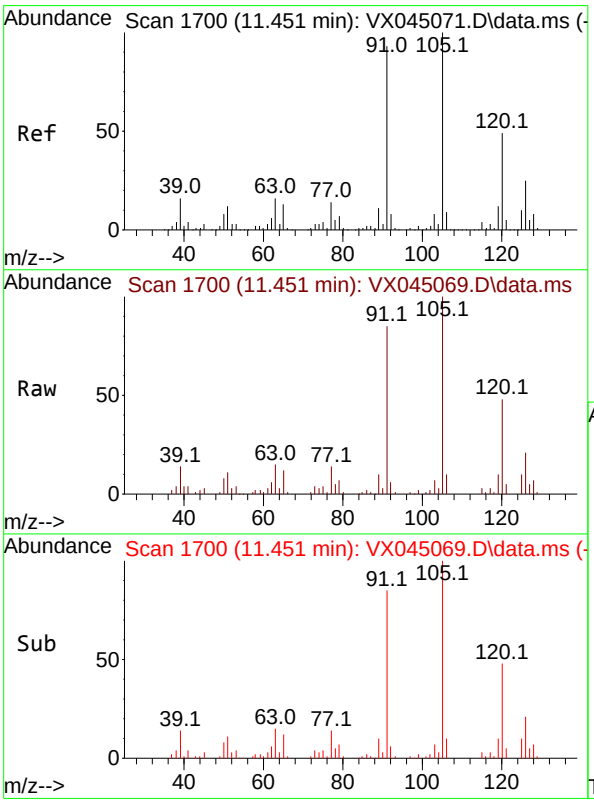
#79
2-Chlorotoluene
Concen: 5.048 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 21253

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.4	49.4

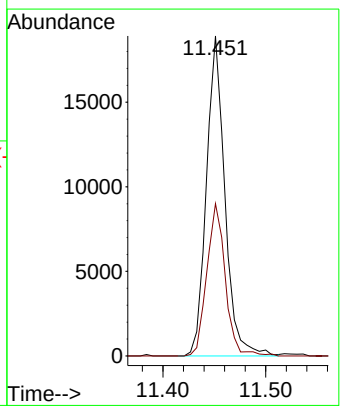


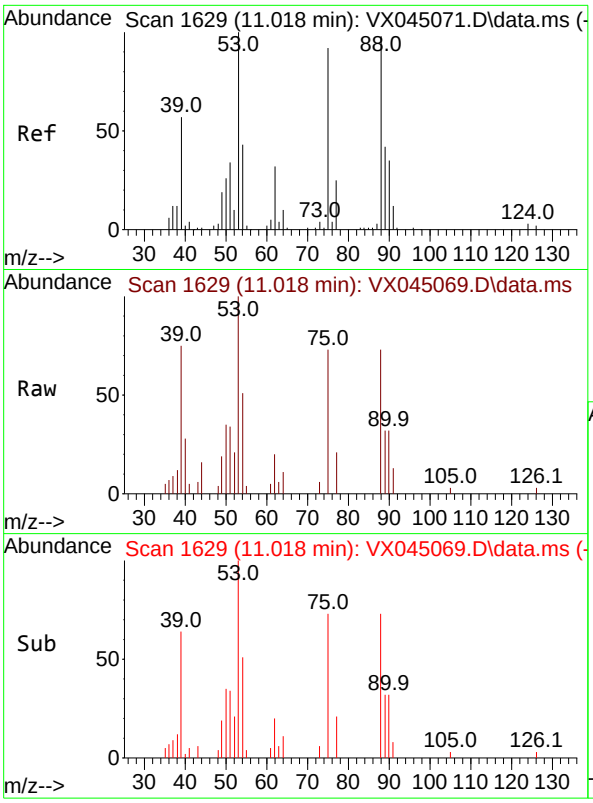


#80
1,3,5-Trimethylbenzene
Concen: 4.897 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 23627

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.1	72.2



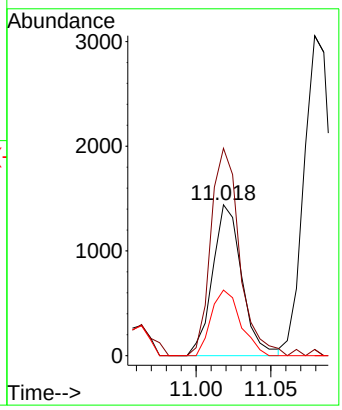


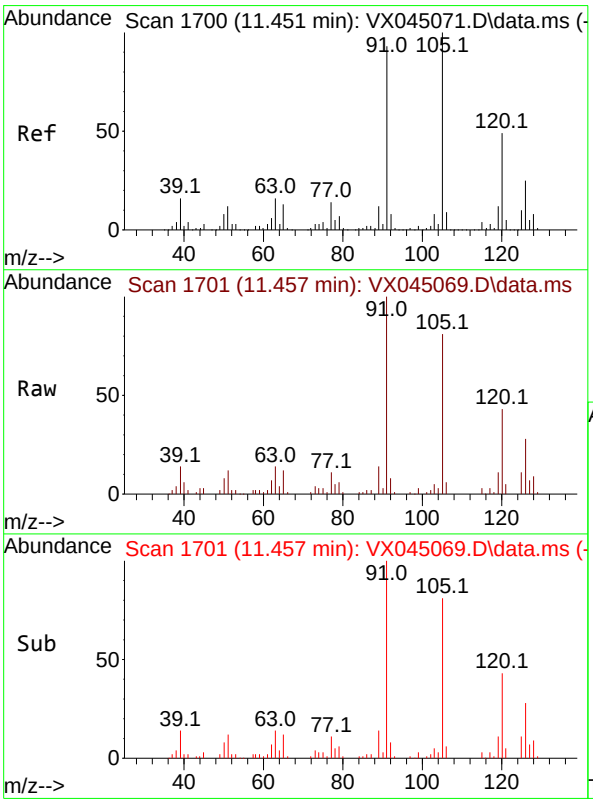
#81
trans-1,4-Dichloro-2-butene
Concen: 3.256 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 1971

Ion	Ratio	Lower	Upper
75	100		
53	134.1	88.5	132.7#
89	43.4	36.2	54.4

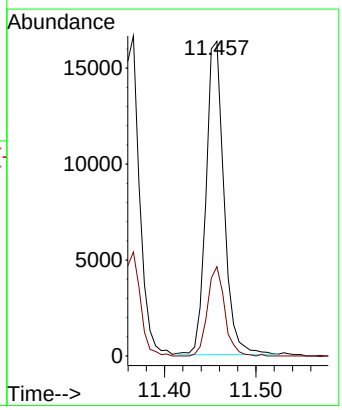


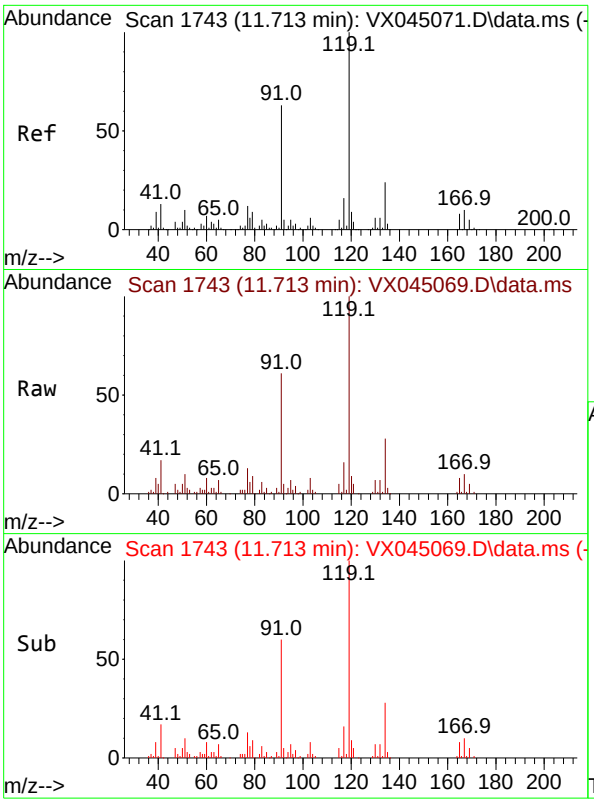


#82
4-Chlorotoluene
Concen: 4.761 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 22190

Ion	Ratio	Lower	Upper
91	100		
126	27.3	14.1	42.4



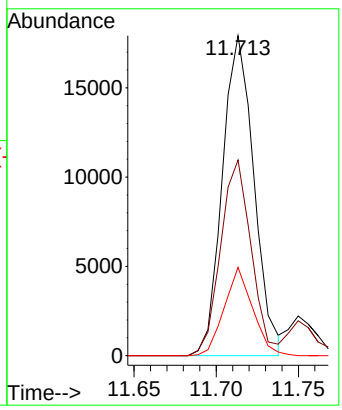


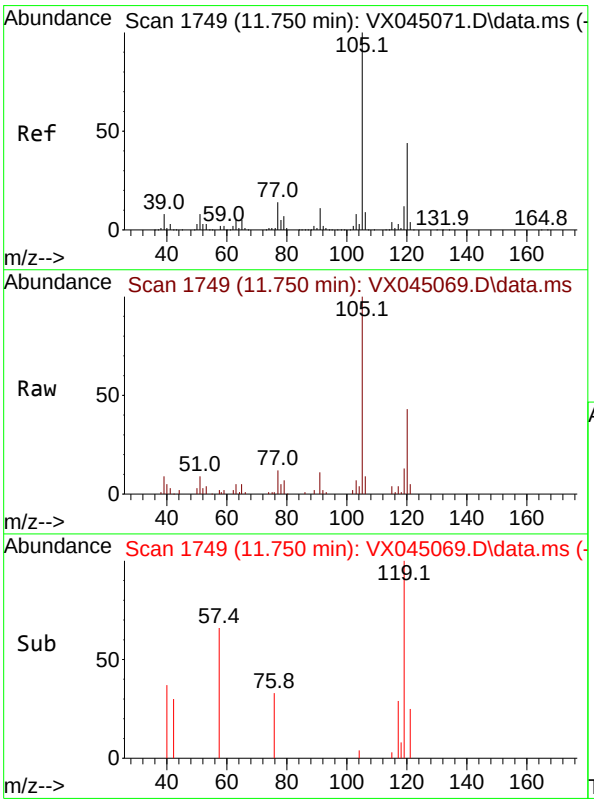
#83
tert-Butylbenzene
Concen: 4.910 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 23960

Ion	Ratio	Lower	Upper
119	100		
91	59.5	30.7	92.1
134	24.9	11.7	35.0

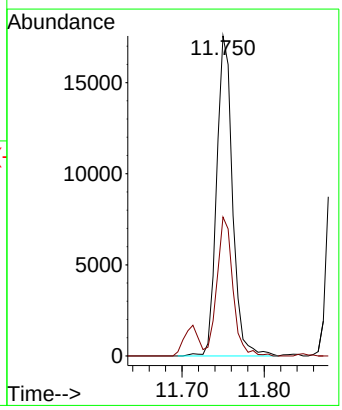


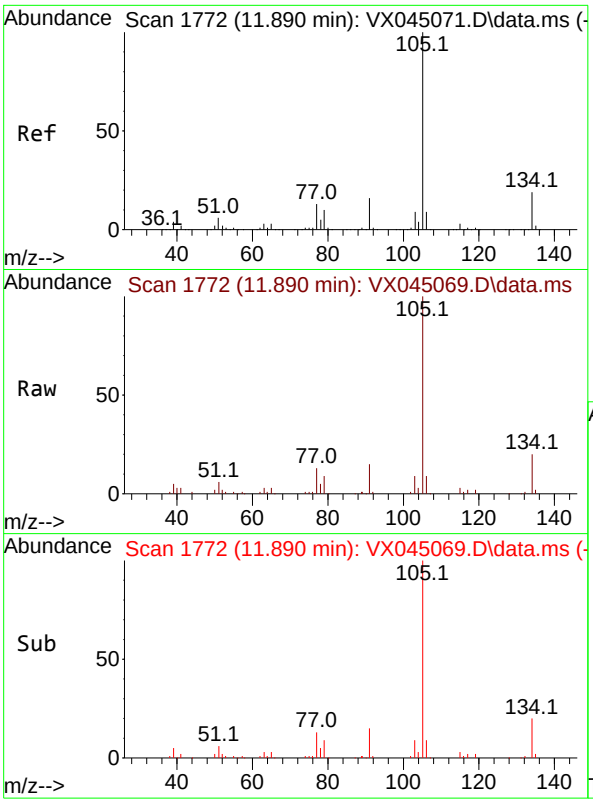


#84
1,2,4-Trimethylbenzene
Concen: 4.960 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 23561

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1



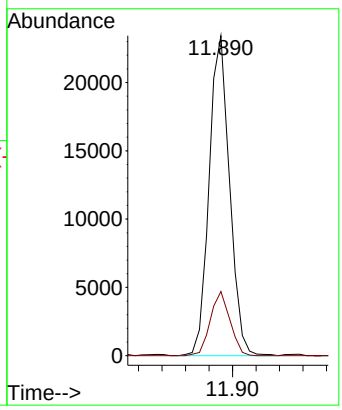


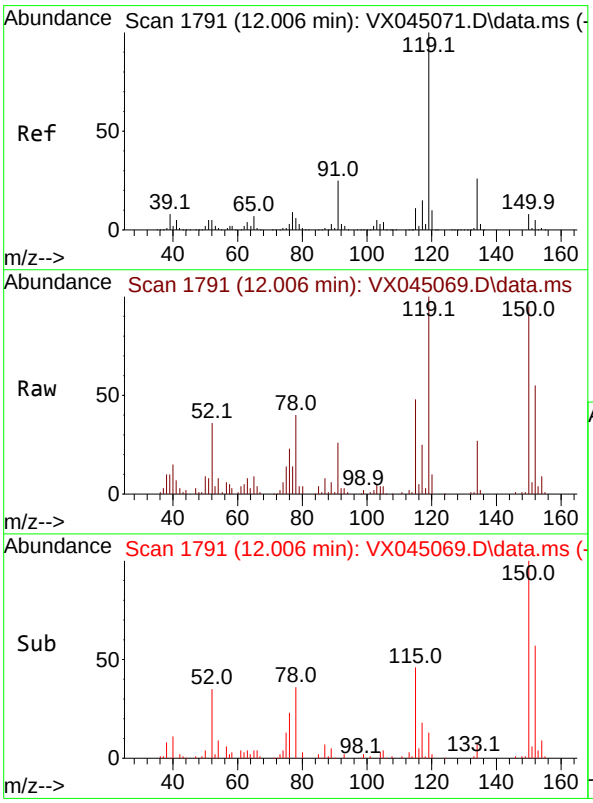
#85
sec-Butylbenzene
Concen: 4.687 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 28314

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

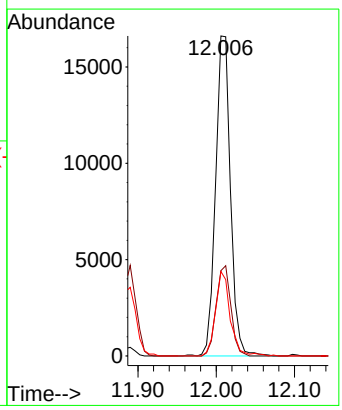


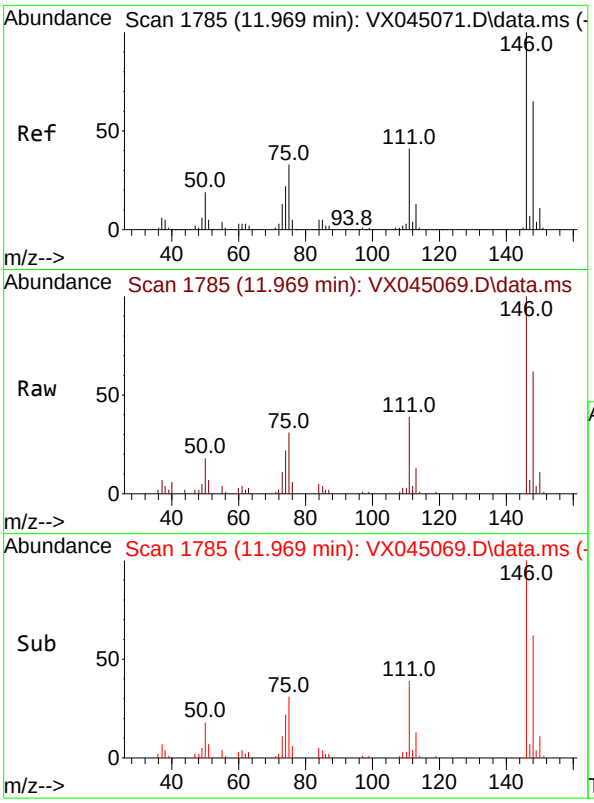


#86
p-Isopropyltoluene
Concen: 4.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:119 Resp: 21977

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.9	38.6
91	26.1	12.7	38.0



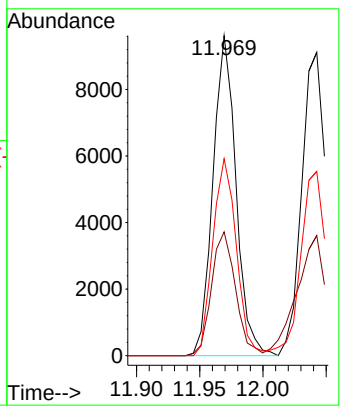


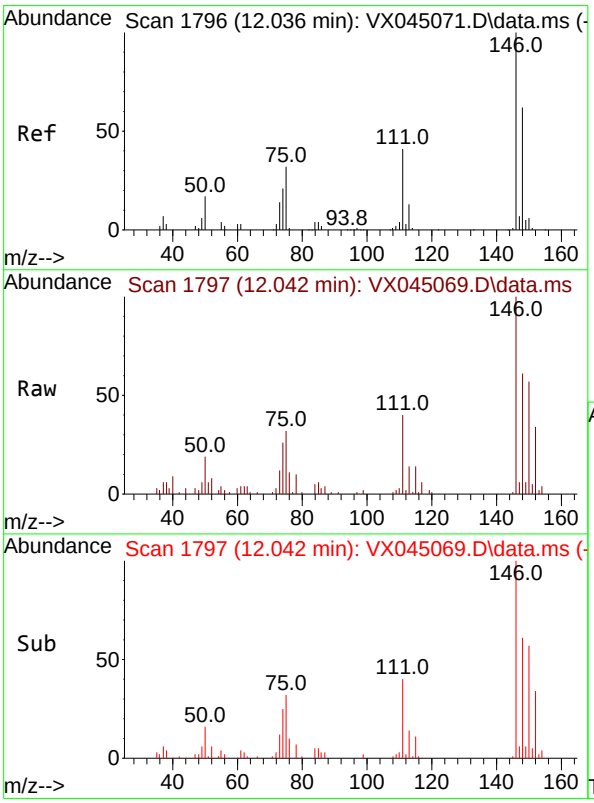
#87
1,3-Dichlorobenzene
Concen: 4.926 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 12157

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.1	63.4
148	62.9	31.9	95.7

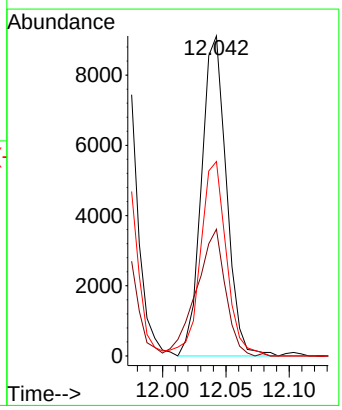


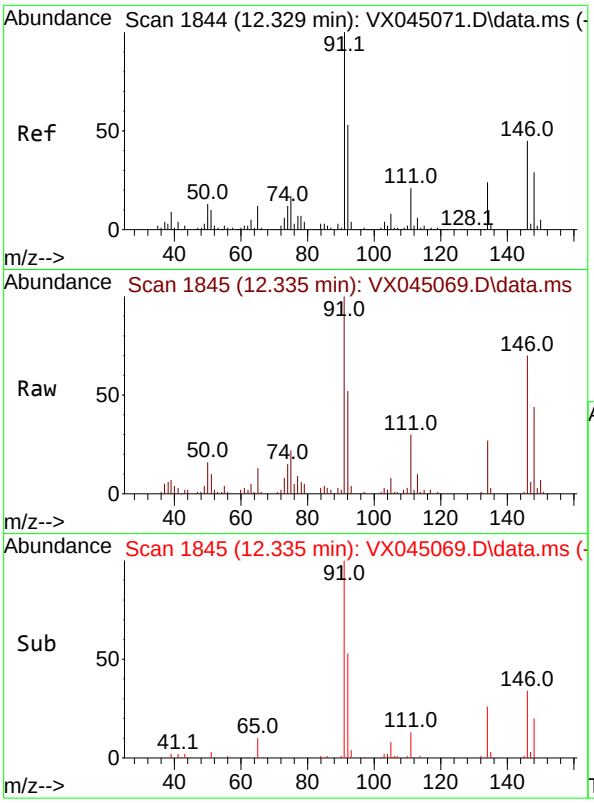


#88
1,4-Dichlorobenzene
Concen: 5.014 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:146 Resp: 12526

Ion	Ratio	Lower	Upper
146	100		
111	46.2	20.2	60.5
148	63.5	31.9	95.9



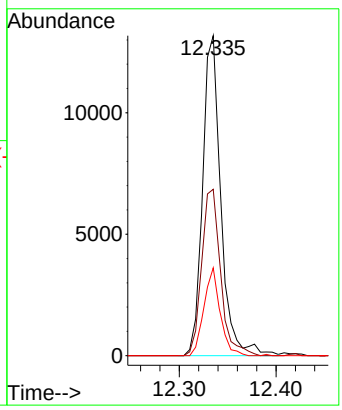


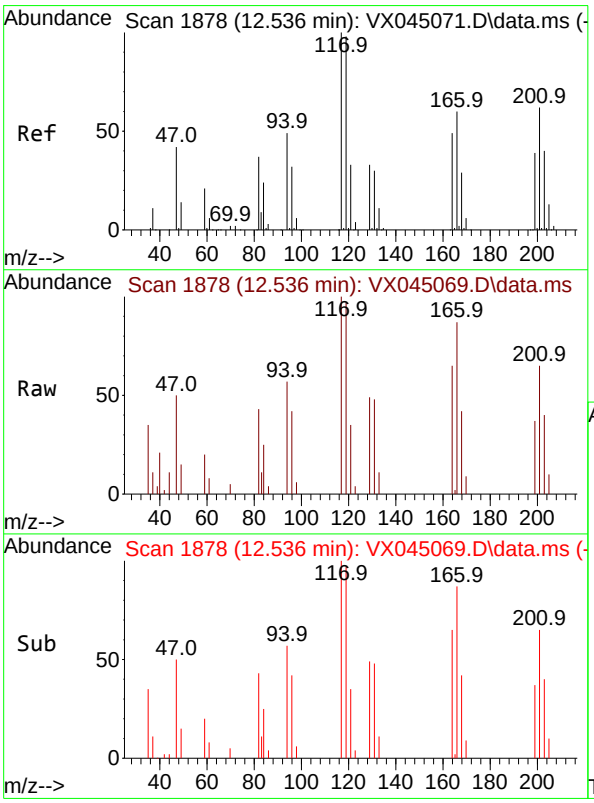
#89
n-Butylbenzene
Concen: 4.072 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 17358

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	24.4	12.2	36.6

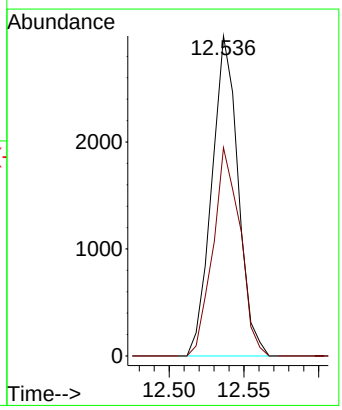


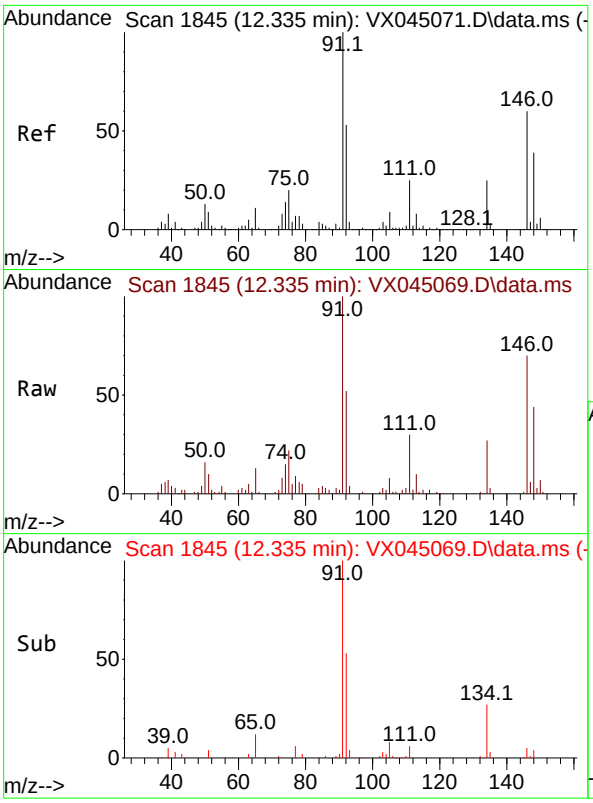


#90
Hexachloroethane
Concen: 4.052 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 3665

Ion	Ratio	Lower	Upper
117	100		
201	67.1	31.9	95.9



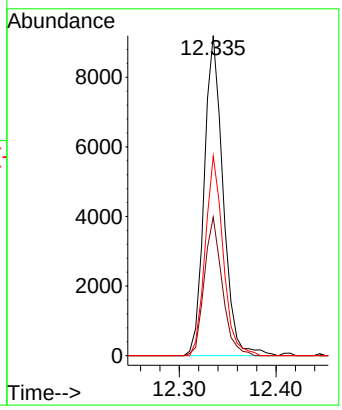


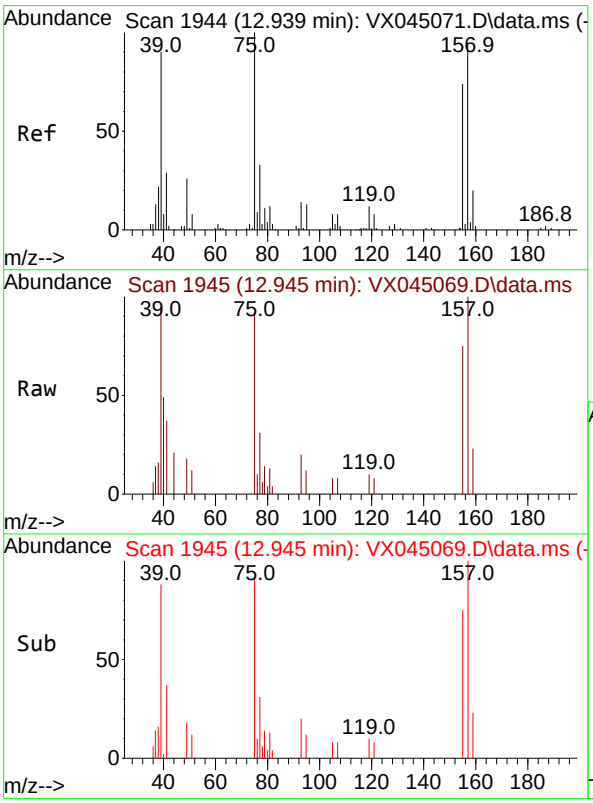
#91
1,2-Dichlorobenzene
Concen: 5.138 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 12477

Ion	Ratio	Lower	Upper
146	100		
111	41.2	21.6	65.0
148	59.4	31.9	95.9

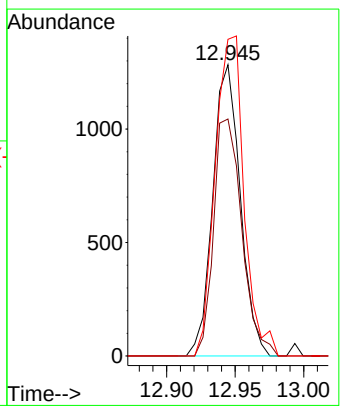


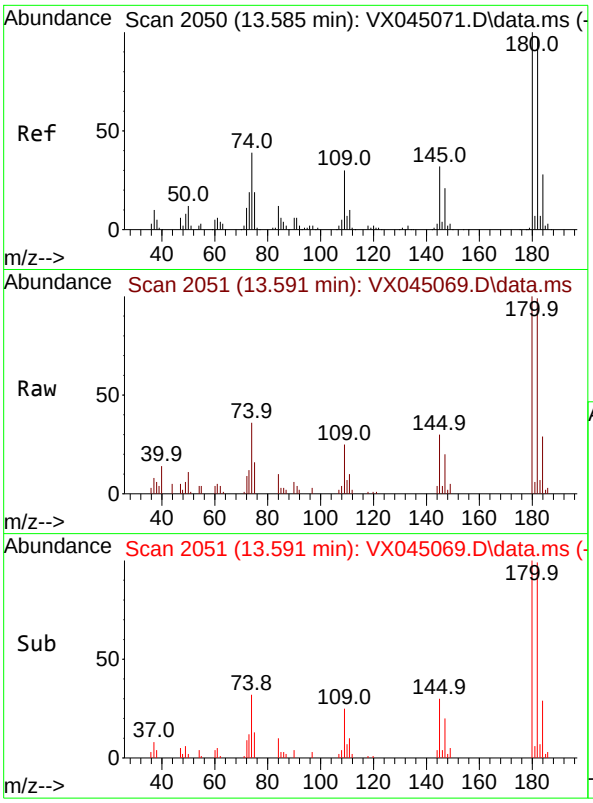


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.712 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 1787

Ion	Ratio	Lower	Upper
75	100		
155	83.8	39.6	118.7
157	115.4	51.1	153.4



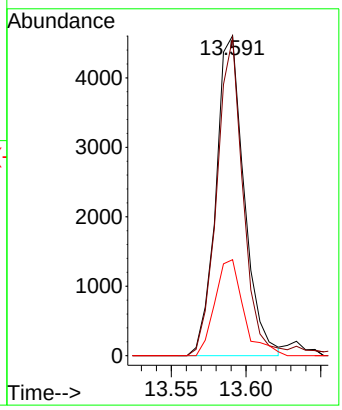


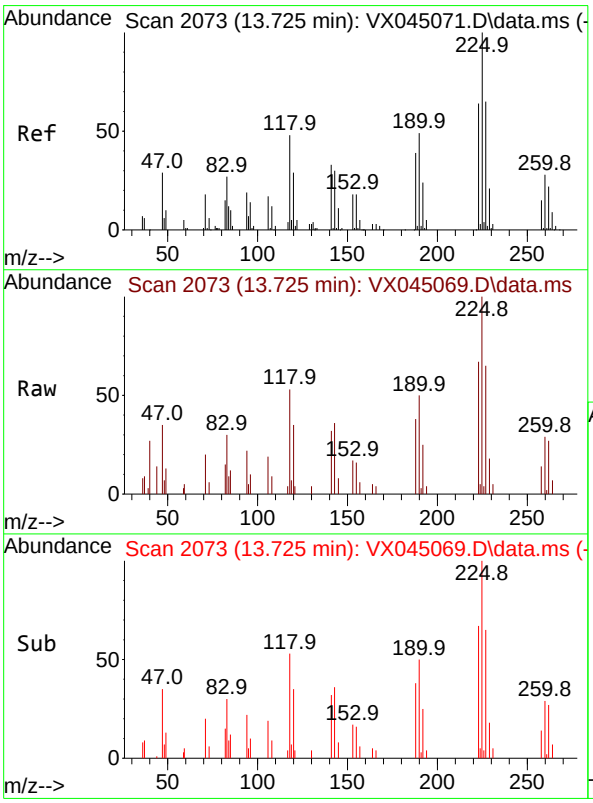
#93
1,2,4-Trichlorobenzene
Concen: 4.114 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 6040

Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.9
145	30.6	16.3	48.9

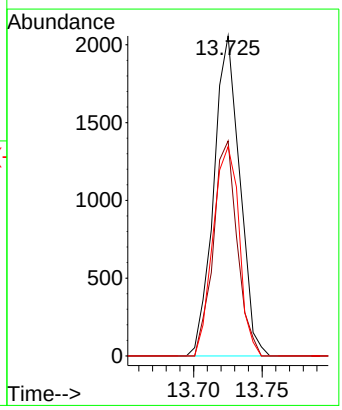


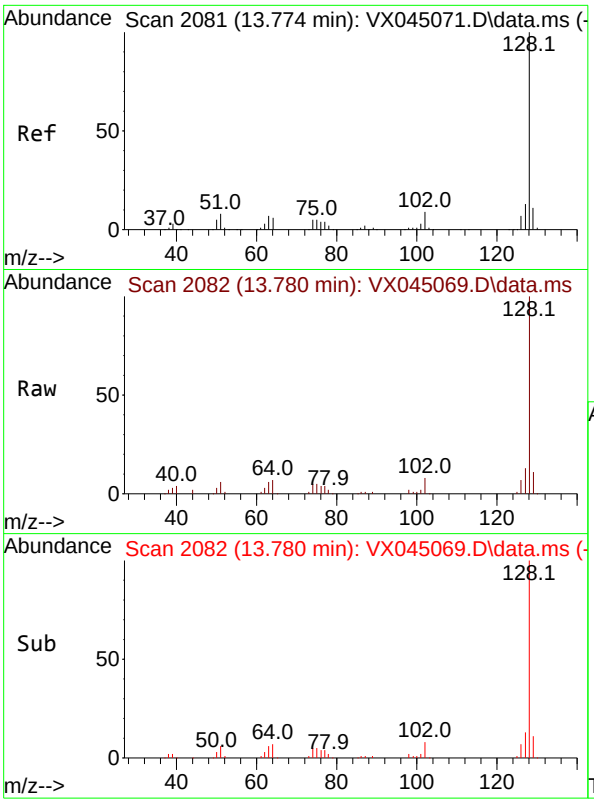


#94
Hexachlorobutadiene
Concen: 4.640 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:225 Resp: 2716

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.9	95.7
227	65.5	31.4	94.0



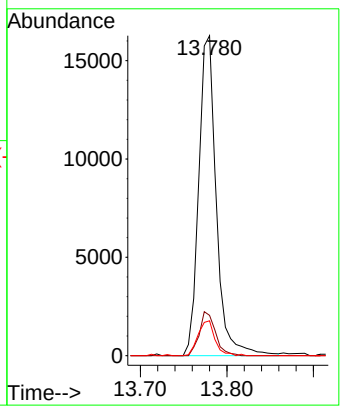


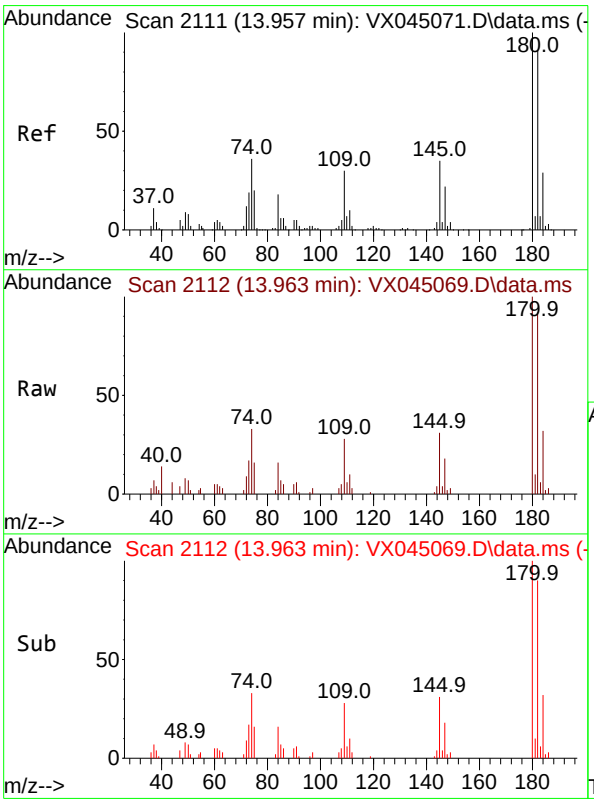
#95
Naphthalene
Concen: 4.287 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 22927

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.6	8.7	13.1

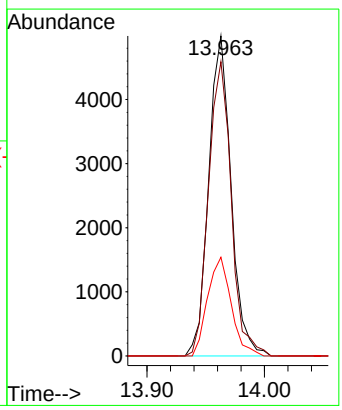




#96
1,2,3-Trichlorobenzene
Concen: 4.437 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:180 Resp: 6600

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.5	142.6
145	32.6	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	97338	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177403	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	70072	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	30514	21.221	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 42.440%#			
35) Dibromofluoromethane	5.385	113	23739	20.473	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 40.940%#			
50) Toluene-d8	8.646	98	84516	19.469	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 38.940%#			
62) 4-Bromofluorobenzene	11.079	95	27856	19.215	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 38.420%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25155	18.750	ug/l	95
3) Chloromethane	1.306	50	32219	19.736	ug/l	99
4) Vinyl Chloride	1.373	62	30134	18.899	ug/l	97
5) Bromomethane	1.593	94	11584	23.239	ug/l	99
6) Chloroethane	1.660	64	14237	23.457	ug/l	99
7) Trichlorofluoromethane	1.867	101	40880	20.015	ug/l	99
8) Diethyl Ether	2.135	74	15911	21.437	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	23154	18.984	ug/l	98
10) Methyl Iodide	2.440	142	29500	18.867	ug/l	100
11) Tert butyl alcohol	2.983	59	31246	118.627	ug/l	98
12) 1,1-Dichloroethene	2.306	96	23810	19.014	ug/l	97
13) Acrolein	2.239	56	33586	117.747	ug/l	99
14) Allyl chloride	2.654	41	42993	19.096	ug/l	100
15) Acrylonitrile	3.068	53	84182	117.598	ug/l	100
16) Acetone	2.385	43	74701	126.257	ug/l	99
17) Carbon Disulfide	2.501	76	61802	18.139	ug/l	99
18) Methyl Acetate	2.709	43	35157	19.729	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	82833	20.689	ug/l	96
20) Methylene Chloride	2.782	84	29281	20.895	ug/l	94
21) trans-1,2-Dichloroethene	3.080	96	23471	19.057	ug/l	97
22) Diisopropyl ether	3.763	45	90378	20.995	ug/l	93
23) Vinyl Acetate	3.721	43	381808	108.038	ug/l	99
24) 1,1-Dichloroethane	3.605	63	49826	20.716	ug/l	99
25) 2-Butanone	4.562	43	118713	124.449	ug/l	97
26) 2,2-Dichloropropane	4.470	77	22886	12.799	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	29788	20.065	ug/l	99
28) Bromochloromethane	4.891	49	23869	20.579	ug/l	99
29) Tetrahydrofuran	5.007	42	77433	122.519	ug/l	99
30) Chloroform	5.086	83	49751	21.147	ug/l	97
31) Cyclohexane	5.464	56	42340	19.181	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	39276	19.831	ug/l	99
36) 1,1-Dichloropropene	5.684	75	31519	18.903	ug/l	99
37) Ethyl Acetate	4.714	43	43097	22.714	ug/l	99
38) Carbon Tetrachloride	5.671	117	31694	19.334	ug/l	97
39) Methylcyclohexane	7.372	83	39769	18.676	ug/l	97
40) Benzene	6.031	78	105787	20.298	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	23924	23.605	ug/l		97
42) 1,2-Dichloroethane	6.086	62	38653	22.886	ug/l		99
43) Isopropyl Acetate	6.348	43	66727	22.094	ug/l		99
44) Trichloroethene	7.122	130	24052	20.191	ug/l		98
45) 1,2-Dichloropropane	7.427	63	27128	20.945	ug/l		99
46) Dibromomethane	7.580	93	19323	21.357	ug/l		97
47) Bromodichloromethane	7.817	83	38038	21.732	ug/l		97
48) Methyl methacrylate	7.695	41	32627	22.757	ug/l		98
49) 1,4-Dioxane	7.665	88	14602	479.170	ug/l		97
51) 4-Methyl-2-Pentanone	8.573	43	229615	124.081	ug/l		98
52) Toluene	8.714	92	63326	20.463	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	30917	17.871	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	36118	18.675	ug/l		97
55) 1,1,2-Trichloroethane	9.152	97	26358	21.992	ug/l		99
56) Ethyl methacrylate	9.116	69	39850	20.791	ug/l		97
57) 1,3-Dichloropropane	9.305	76	45644	21.836	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	96311	102.342	ug/l		99
59) 2-Hexanone	9.433	43	168768	126.428	ug/l		100
60) Dibromochloromethane	9.518	129	27705	21.668	ug/l		99
61) 1,2-Dibromoethane	9.610	107	26311	21.764	ug/l		98
64) Tetrachloroethene	9.268	164	20140	20.102	ug/l		97
65) Chlorobenzene	10.079	112	68777	20.316	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	22508	20.627	ug/l		97
67) Ethyl Benzene	10.189	91	119165	19.905	ug/l		100
68) m/p-Xylenes	10.299	106	89735	40.699	ug/l		98
69) o-Xylene	10.640	106	44281	20.018	ug/l		98
70) Styrene	10.652	104	73832	20.767	ug/l		98
71) Bromoform	10.799	173	17403	21.449	ug/l	#	99
73) Isopropylbenzene	10.963	105	112099	19.794	ug/l		99
74) N-amyl acetate	10.841	43	52972	20.606	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	42413	21.738	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	41754	26.713	ug/l		86
77) Bromobenzene	11.195	156	26310	20.466	ug/l		99
78) n-propylbenzene	11.305	91	128284	19.641	ug/l		100
79) 2-Chlorotoluene	11.359	91	79275	19.775	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	94545	20.581	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	8759	15.196	ug/l		96
82) 4-Chlorotoluene	11.451	91	86281	19.443	ug/l		98
83) tert-Butylbenzene	11.713	119	93670	20.159	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	94734	20.943	ug/l		100
85) sec-Butylbenzene	11.890	105	115953	20.160	ug/l		100
86) p-Isopropyltoluene	12.006	119	91554	19.827	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	47934	20.400	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	46657	19.615	ug/l		99
89) n-Butylbenzene	12.329	91	78135	19.249	ug/l		100
90) Hexachloroethane	12.536	117	15919	18.483	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	48632	21.031	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.944	75	7987	22.119	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	27424	19.617	ug/l		99
94) Hexachlorobutadiene	13.725	225	10934	19.616	ug/l		99
95) Naphthalene	13.774	128	108350	21.279	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	28937	20.432	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

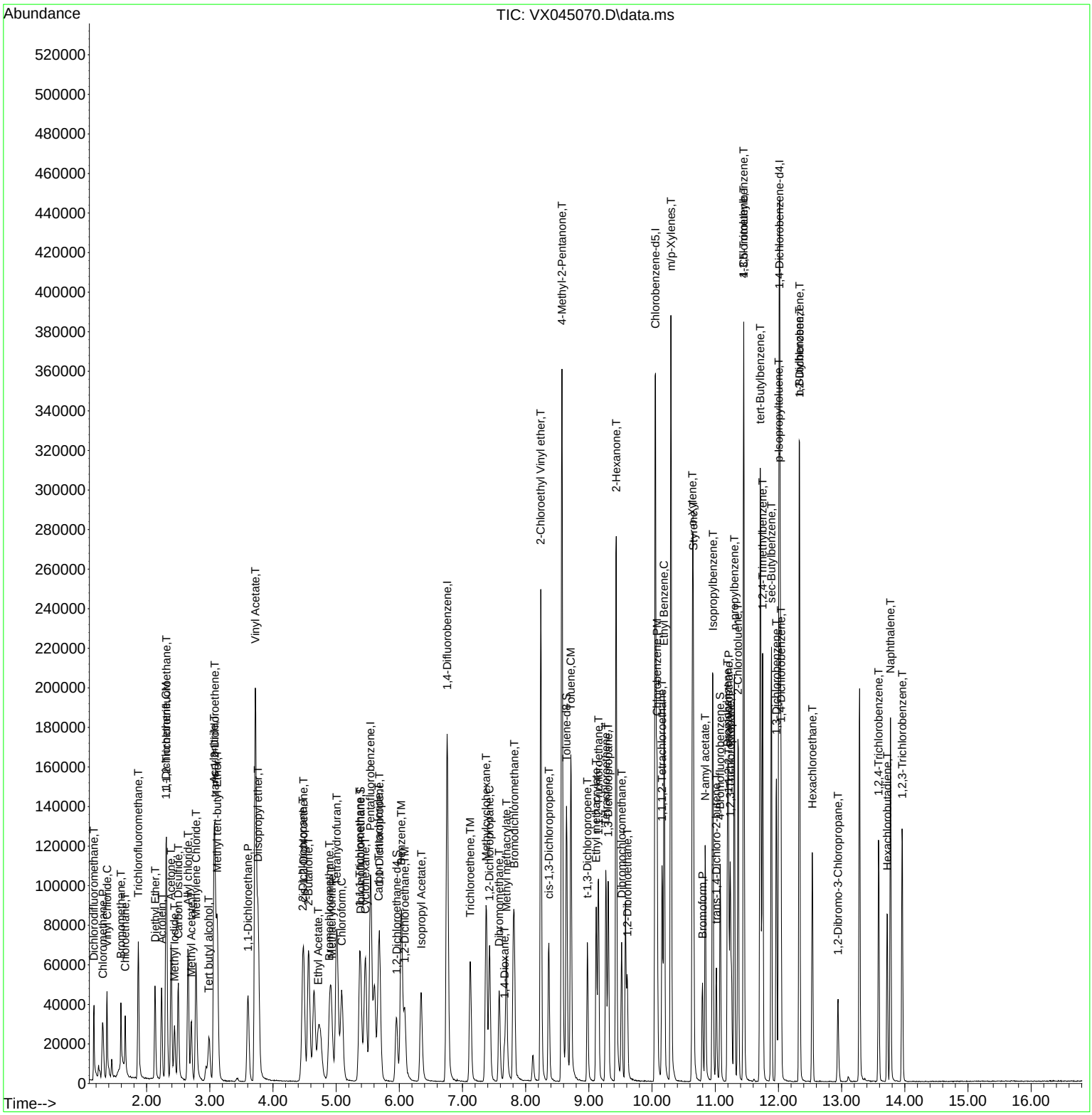
(#) = qualifier out of range (m) = manual integration (+) = signals summed

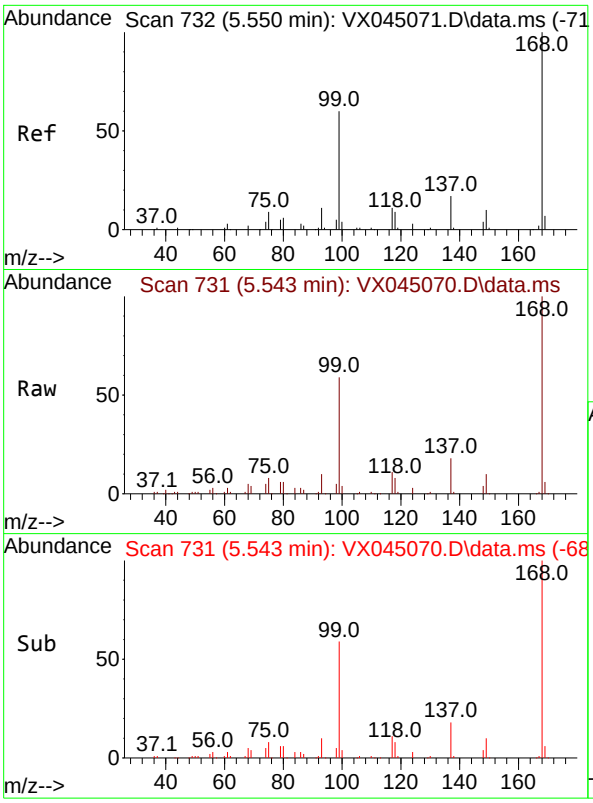
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration



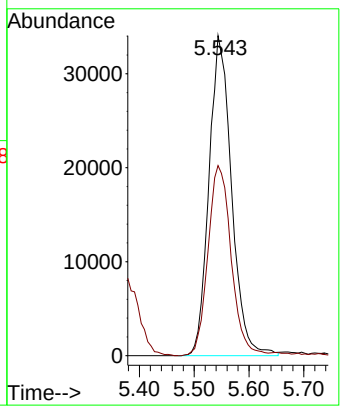


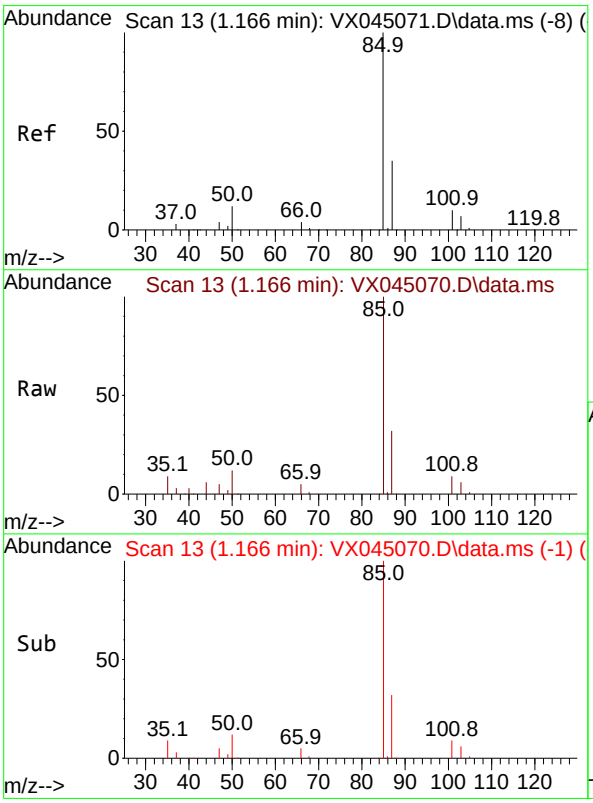
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 97338

Ion	Ratio	Lower	Upper
168	100		
99	59.4	48.2	72.4

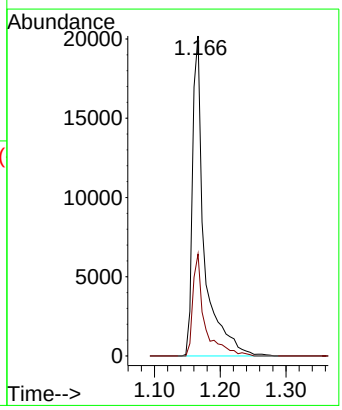


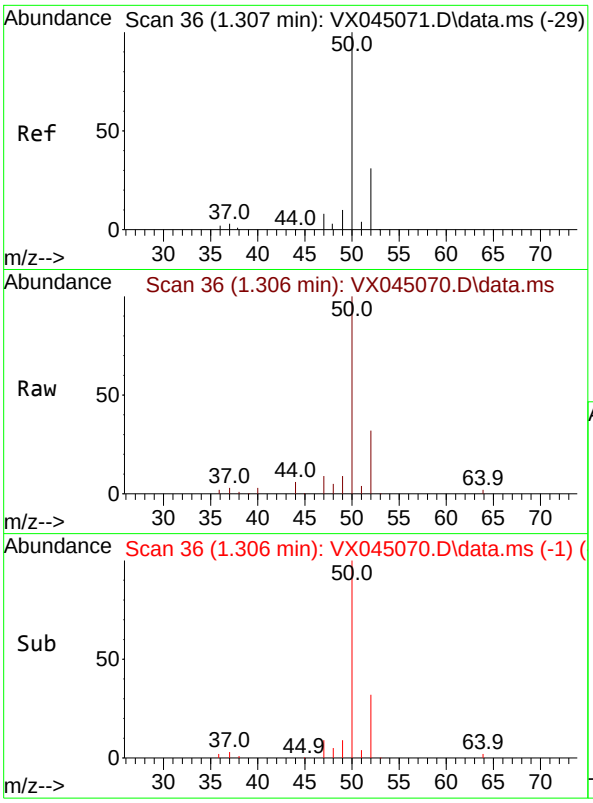


#2
Dichlorodifluoromethane
Concen: 18.750 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 85 Resp: 25155

Ion	Ratio	Lower	Upper
85	100		
87	31.9	17.4	52.3



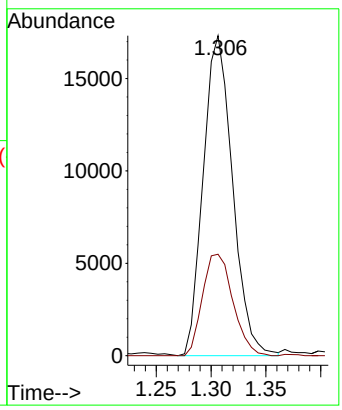


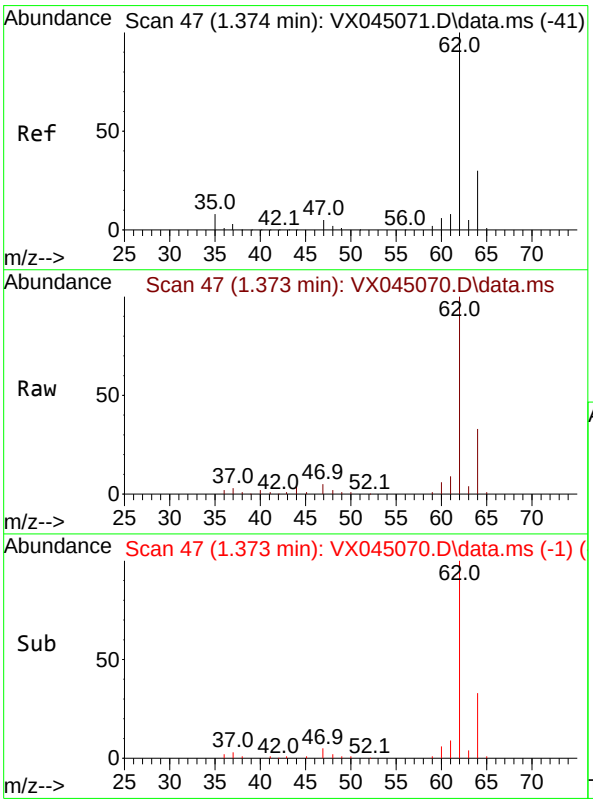
#3
Chloromethane
Concen: 19.736 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 32219

Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.0	37.4

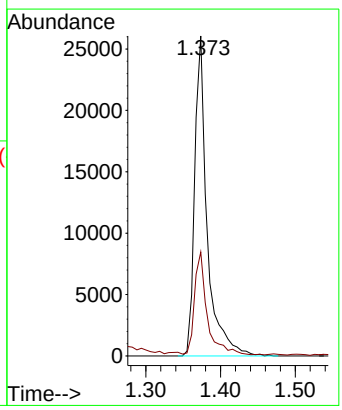


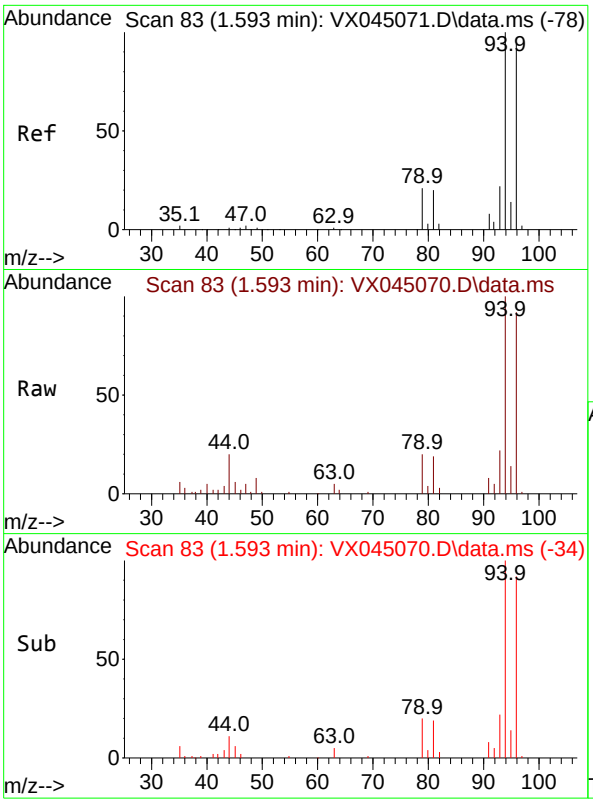


#4
Vinyl Chloride
Concen: 18.899 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 30134

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.3	36.5



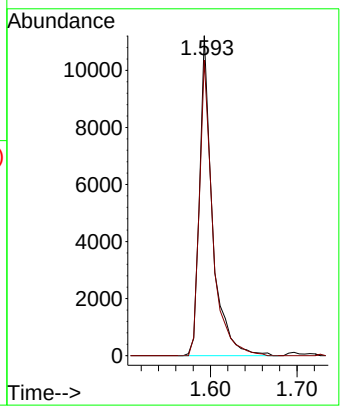


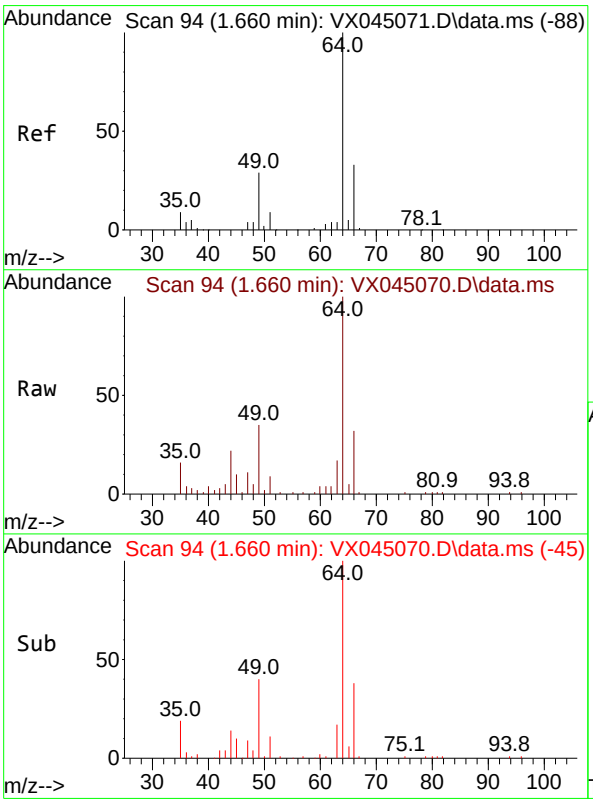
#5
Bromomethane
Concen: 23.239 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 11584

Ion	Ratio	Lower	Upper
94	100		
96	92.4	75.0	112.4

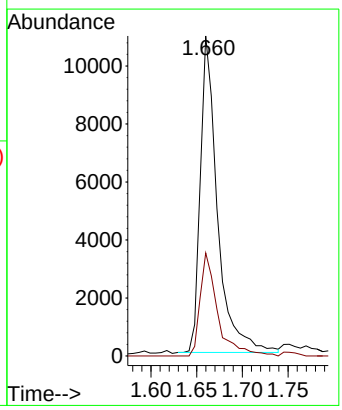


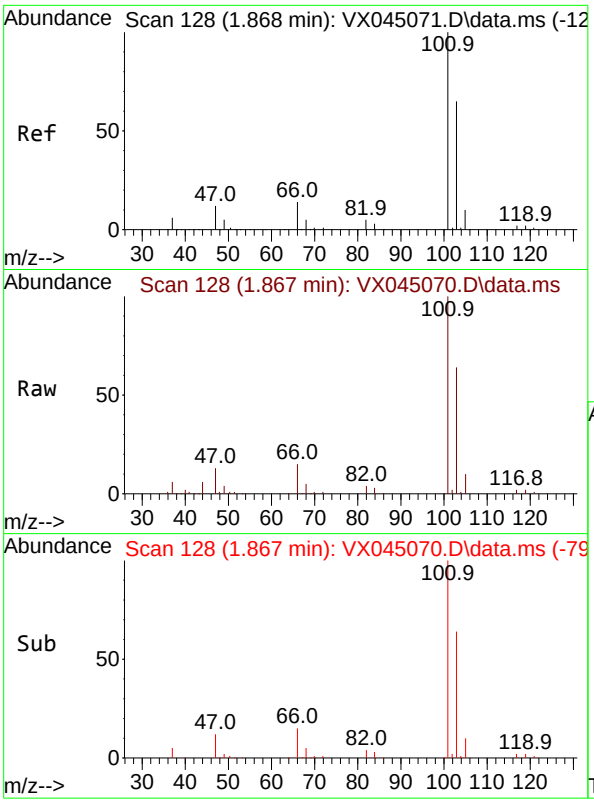


#6
Chloroethane
Concen: 23.457 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 64 Resp: 14237

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.7	40.1



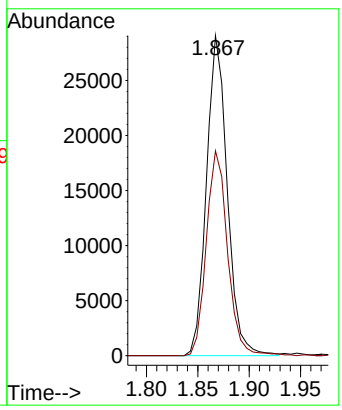


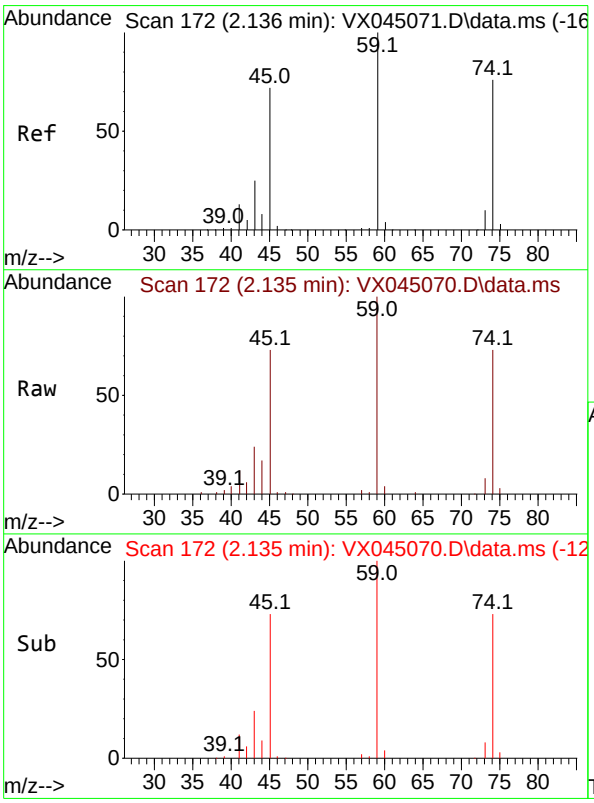
#7
Trichlorofluoromethane
Concen: 20.015 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 40880

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.1	78.1

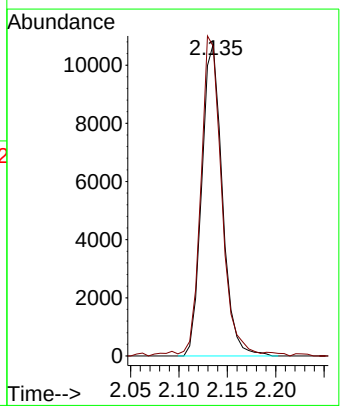


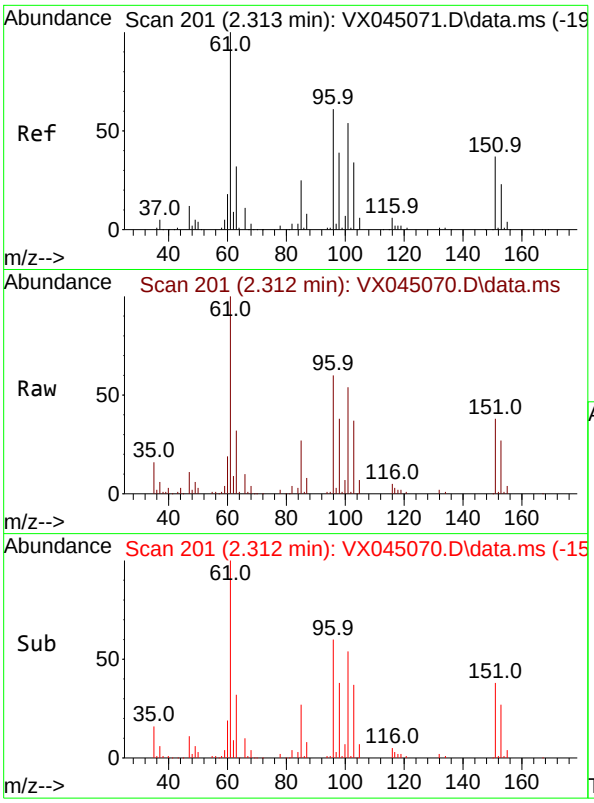


#8
Diethyl Ether
Concen: 21.437 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 74 Resp: 15911

Ion	Ratio	Lower	Upper
74	100		
45	105.3	51.5	154.5



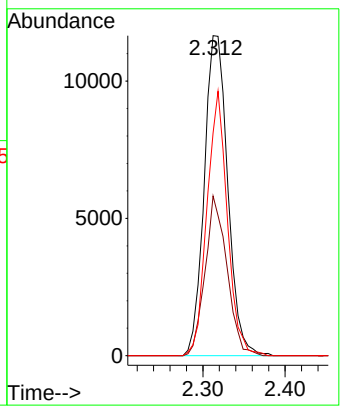


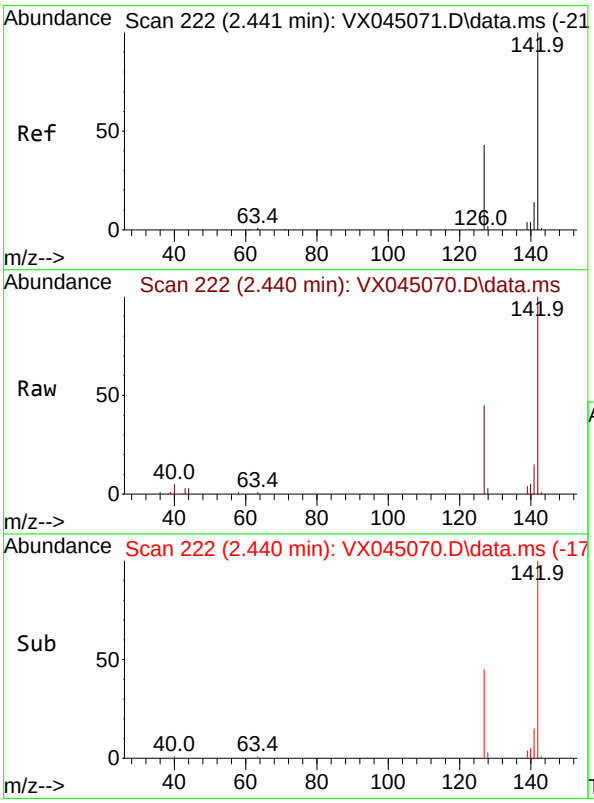
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.984 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 23154

Ion	Ratio	Lower	Upper
101	100		
85	46.5	36.2	54.4
151	71.8	56.4	84.6

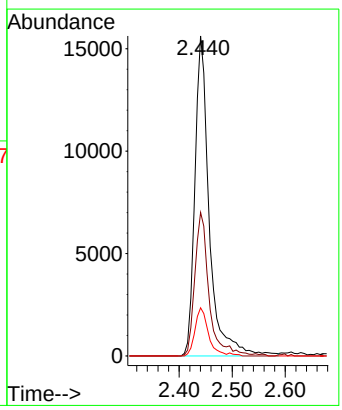


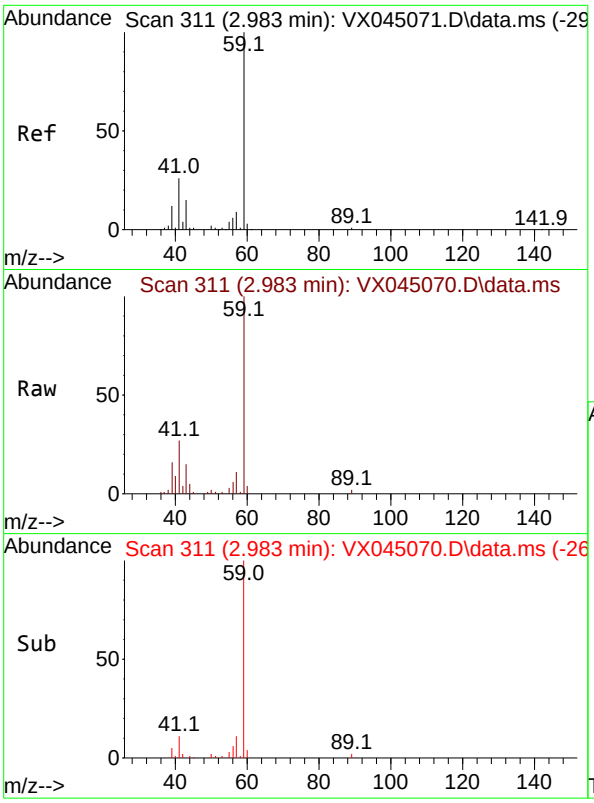


#10
Methyl Iodide
Concen: 18.867 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:142 Resp: 29500

Ion	Ratio	Lower	Upper
142	100		
127	44.2	35.4	53.2
141	14.3	11.6	17.4



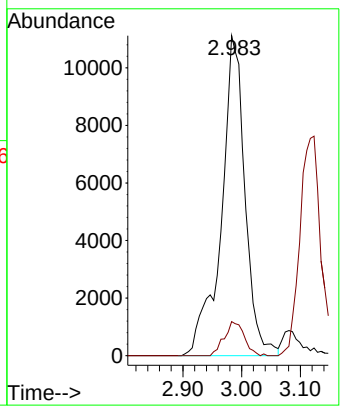


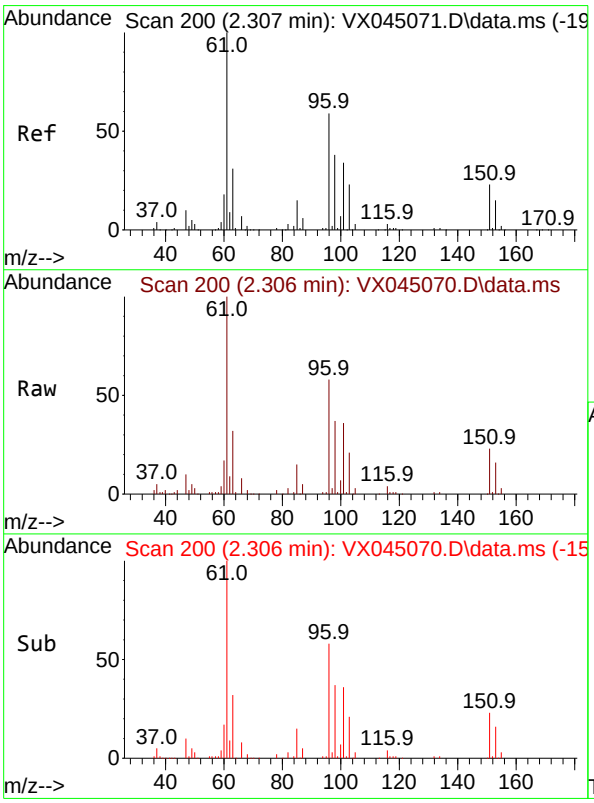
#11
Tert butyl alcohol
Concen: 118.627 ug/l
RT: 2.983 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 31246

Ion	Ratio	Lower	Upper
59	100		
57	8.9	7.8	11.8

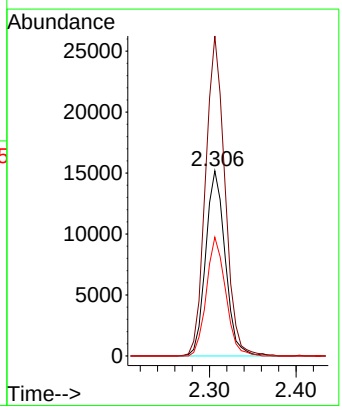


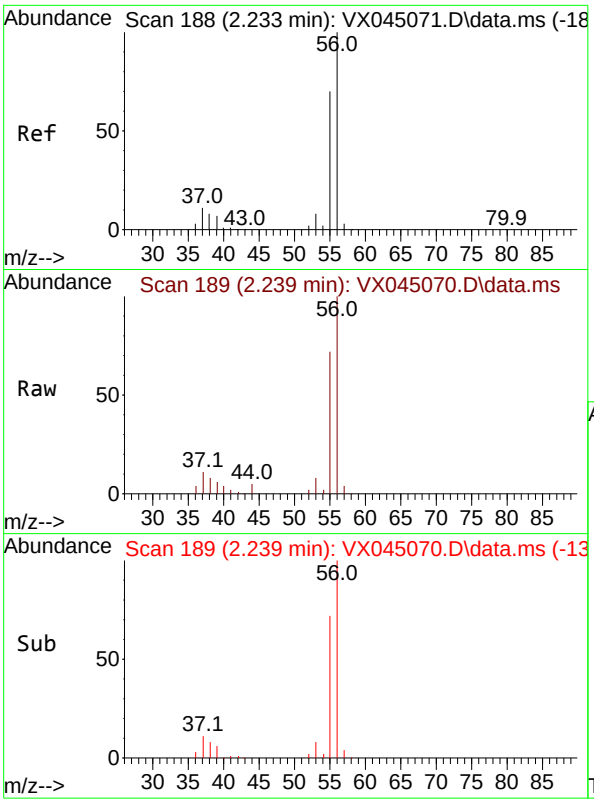


#12
1,1-Dichloroethene
Concen: 19.014 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 96 Resp: 23810

Ion	Ratio	Lower	Upper
96	100		
61	172.8	134.6	202.0
98	64.1	51.0	76.6



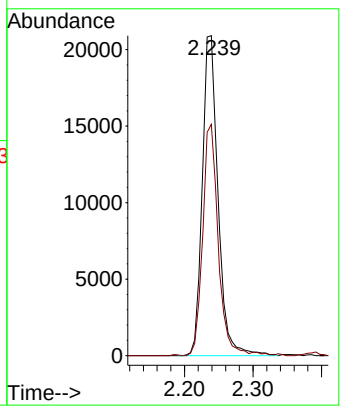


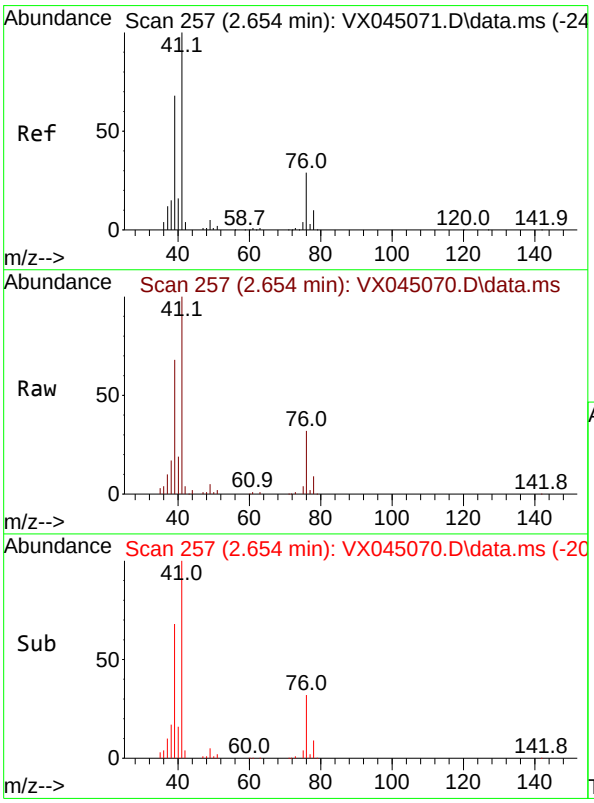
#13
Acrolein
Concen: 117.747 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 33586

Ion	Ratio	Lower	Upper
56	100		
55	71.4	56.2	84.4

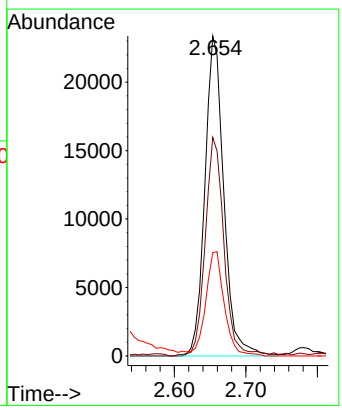


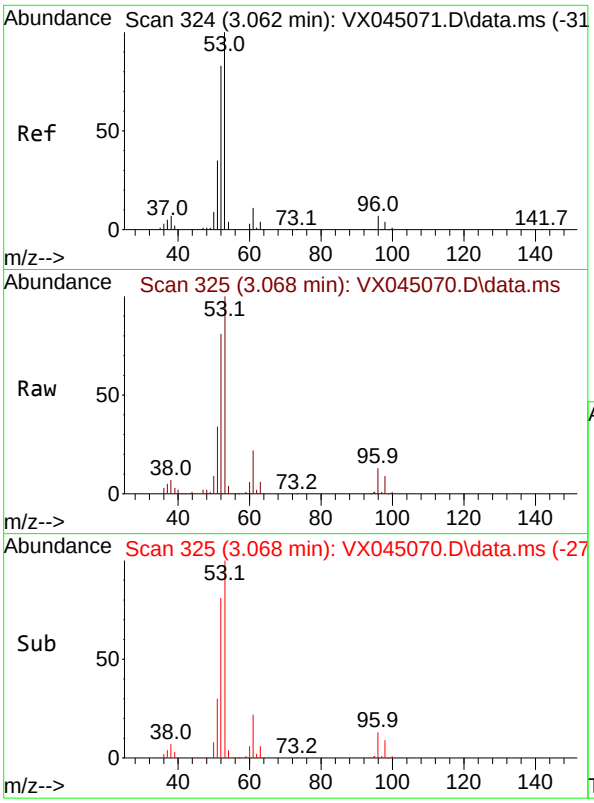


#14
Allyl chloride
Concen: 19.096 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 42993

Ion	Ratio	Lower	Upper
41	100		
39	67.4	53.8	80.8
76	32.1	25.2	37.8



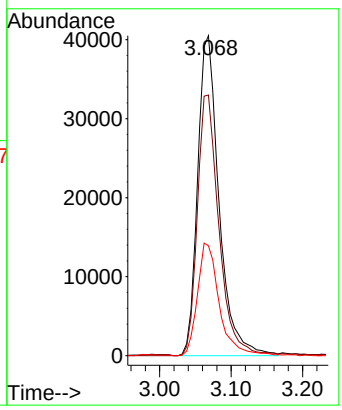


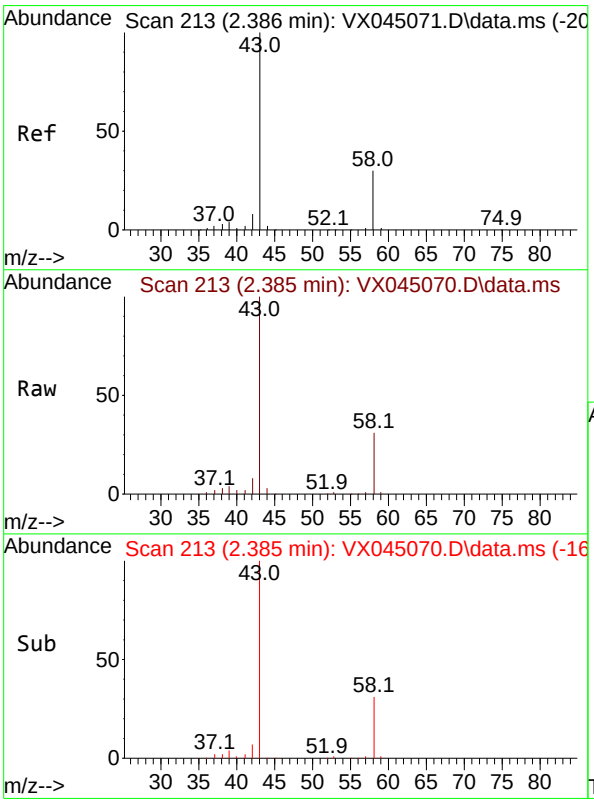
#15
Acrylonitrile
Concen: 117.598 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 84182

Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.2	99.2
51	36.0	29.0	43.4

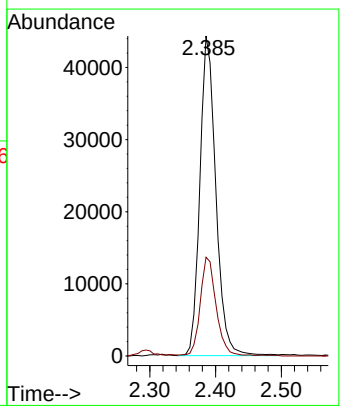


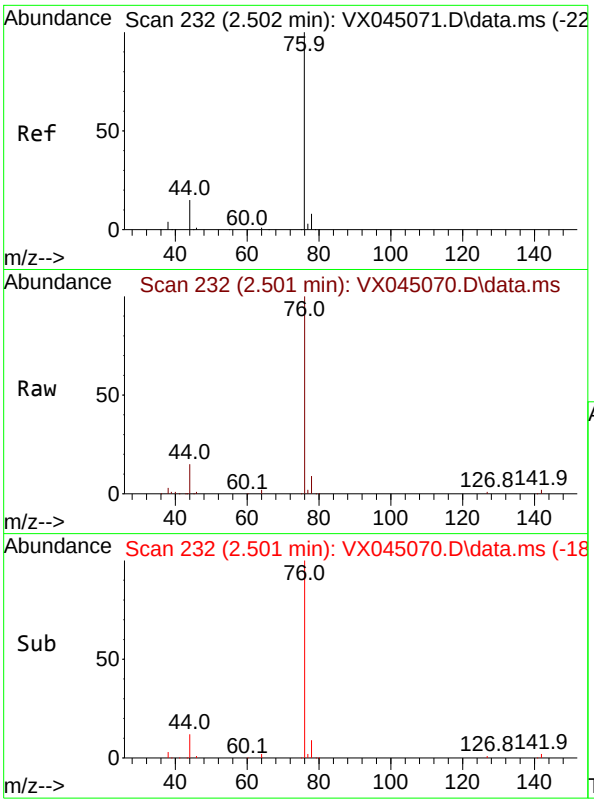


#16
Acetone
Concen: 126.257 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 74701

Ion	Ratio	Lower	Upper
43	100		
58	30.7	24.2	36.4



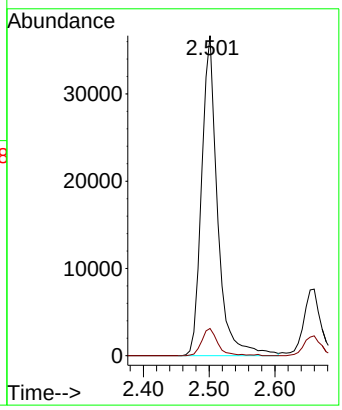


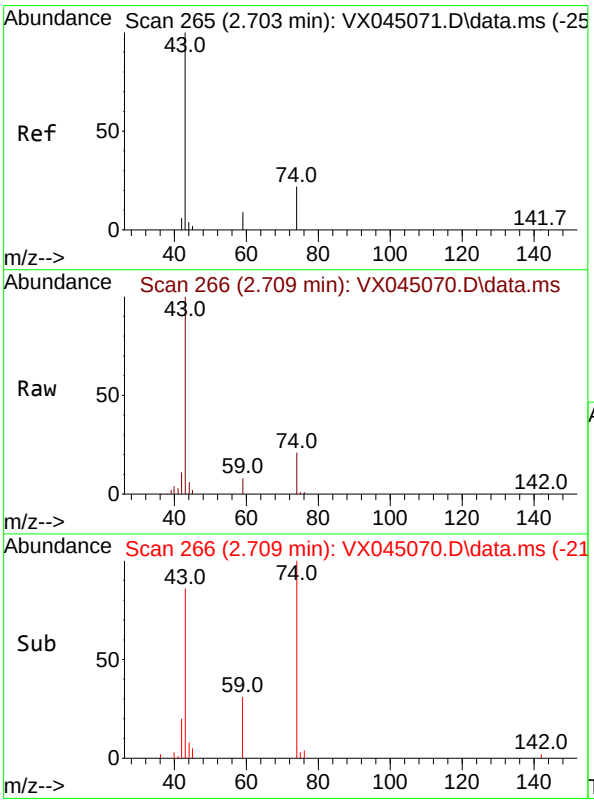
#17
Carbon Disulfide
Concen: 18.139 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 61802

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.6	9.8

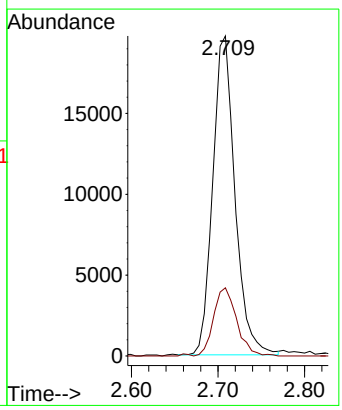


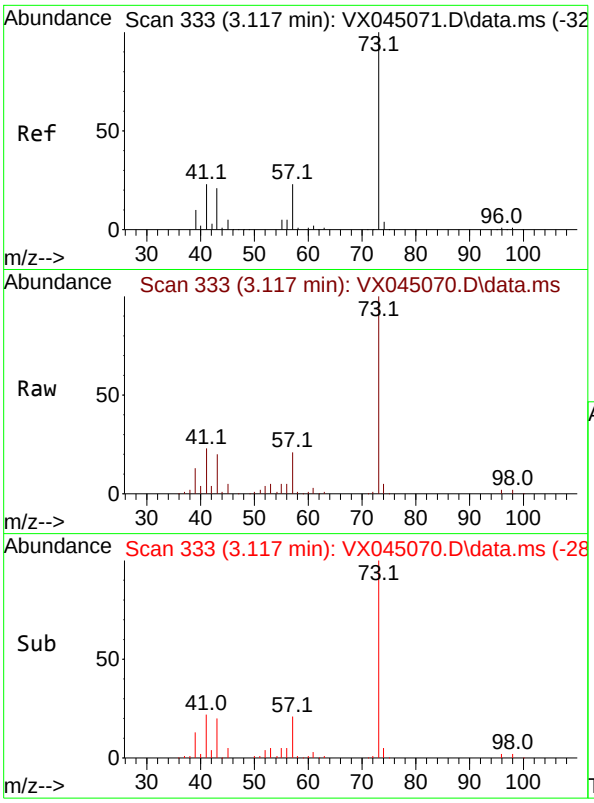


#18
Methyl Acetate
Concen: 19.729 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 35157

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2



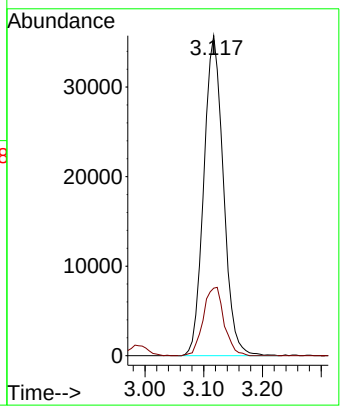


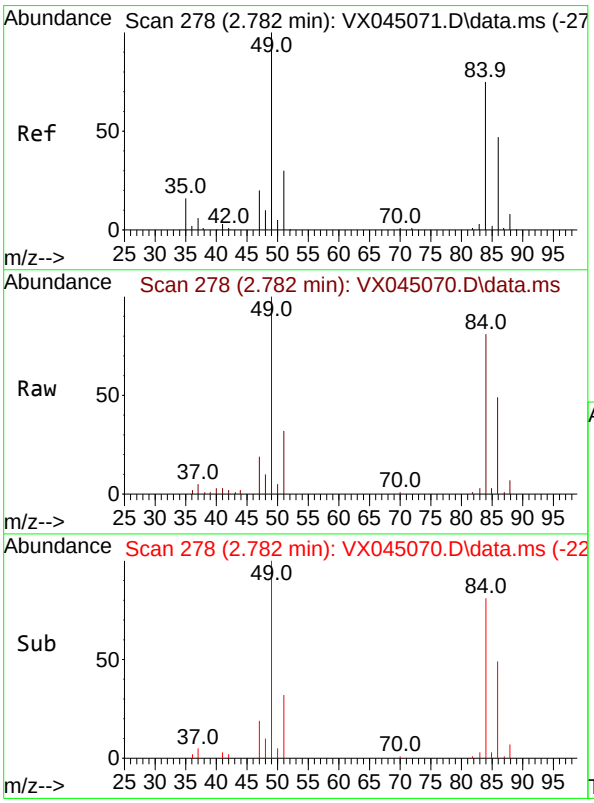
#19
Methyl tert-butyl Ether
Concen: 20.689 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 82833

Ion	Ratio	Lower	Upper
73	100		
57	21.1	18.5	27.7

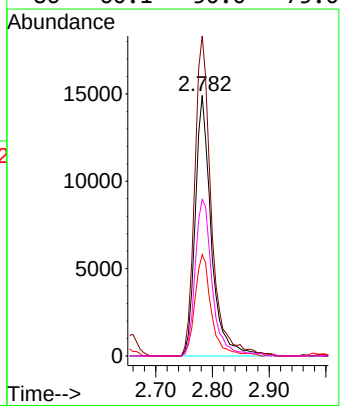


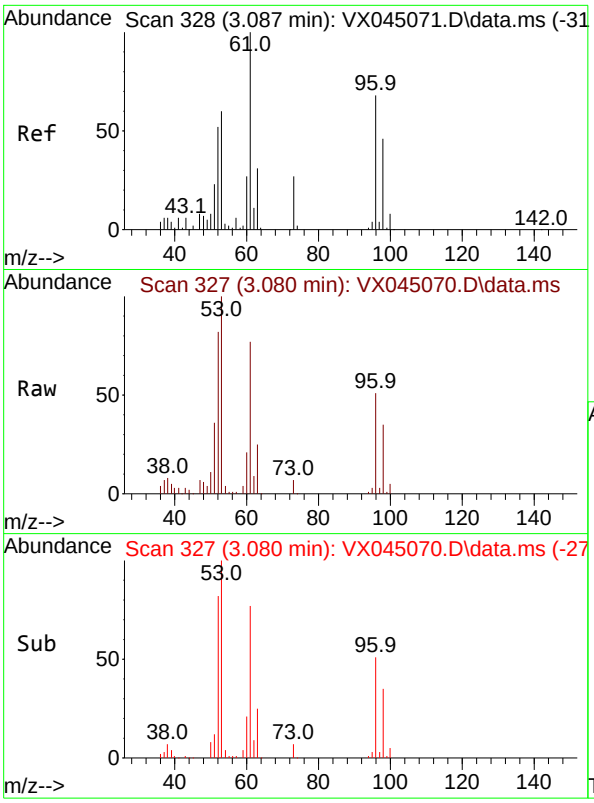


#20
Methylene Chloride
Concen: 20.895 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 84 Resp: 29281

Ion	Ratio	Lower	Upper
84	100		
49	122.9	106.5	159.7
51	38.9	32.1	48.1
86	60.1	50.0	75.0



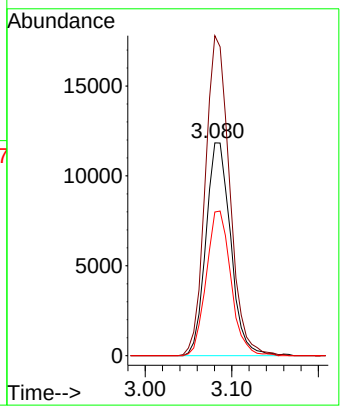


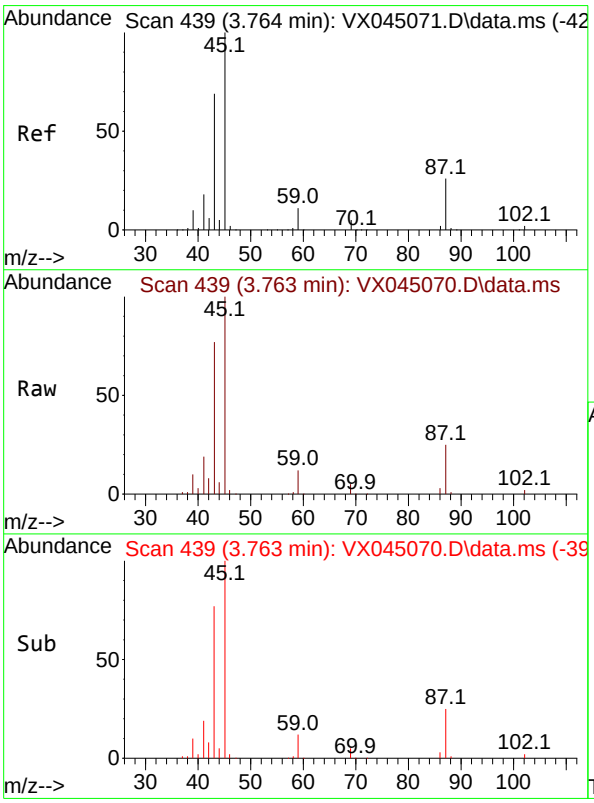
#21
trans-1,2-Dichloroethene
Concen: 19.057 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 23471

Ion	Ratio	Lower	Upper
96	100		
61	150.3	117.0	175.4
98	67.5	53.4	80.2

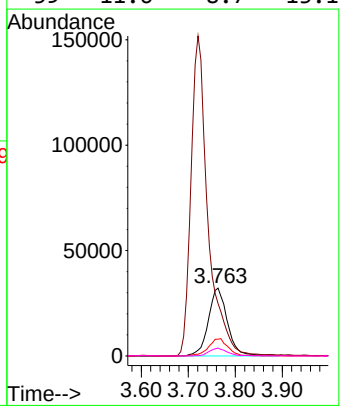


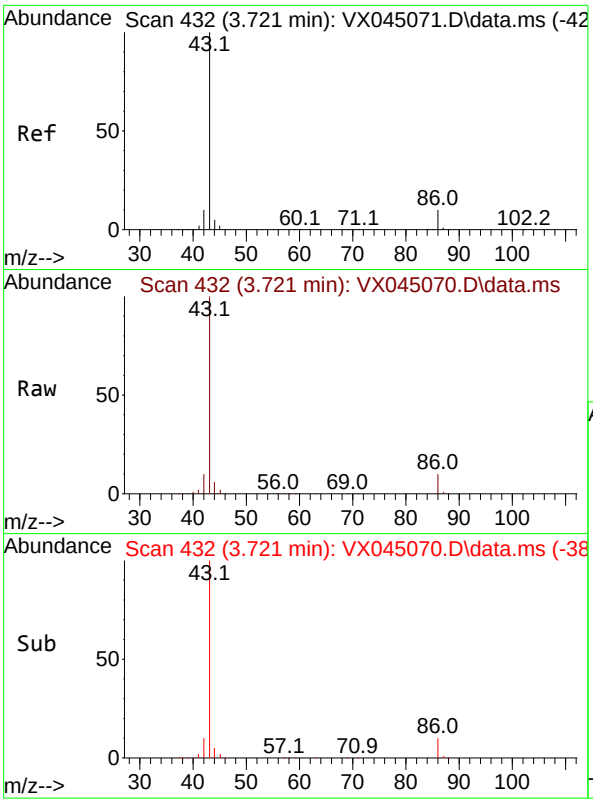


#22
Diisopropyl ether
Concen: 20.995 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 45 Resp: 90378

Ion	Ratio	Lower	Upper
45	100		
43	76.4	54.9	82.3
87	24.7	21.0	31.4
59	11.6	8.7	13.1



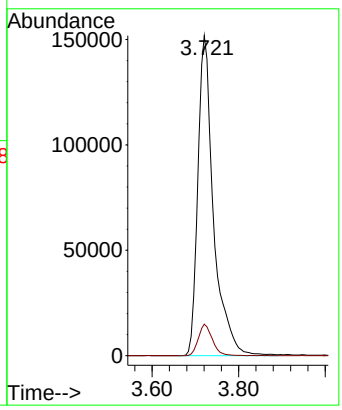


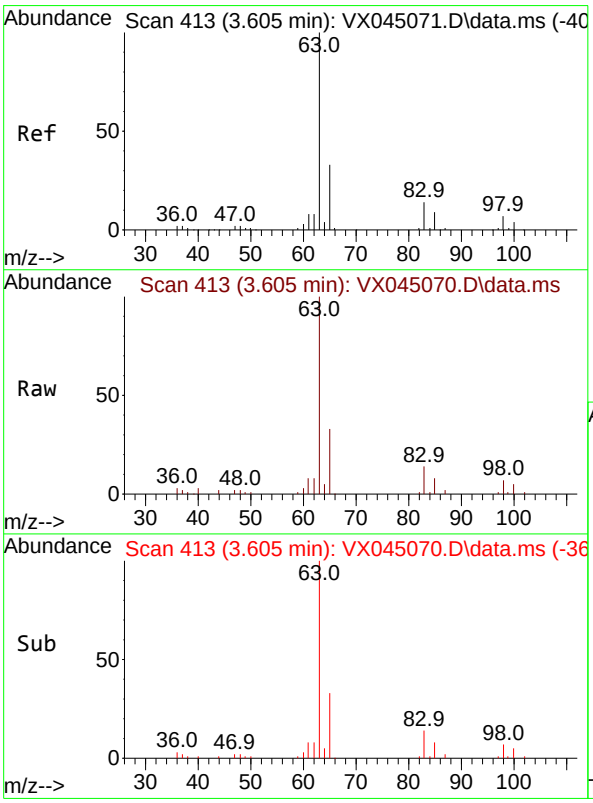
#23
Vinyl Acetate
Concen: 108.038 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 381808

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

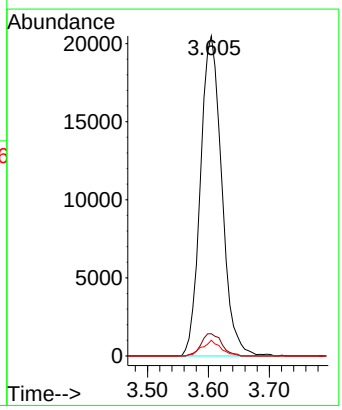


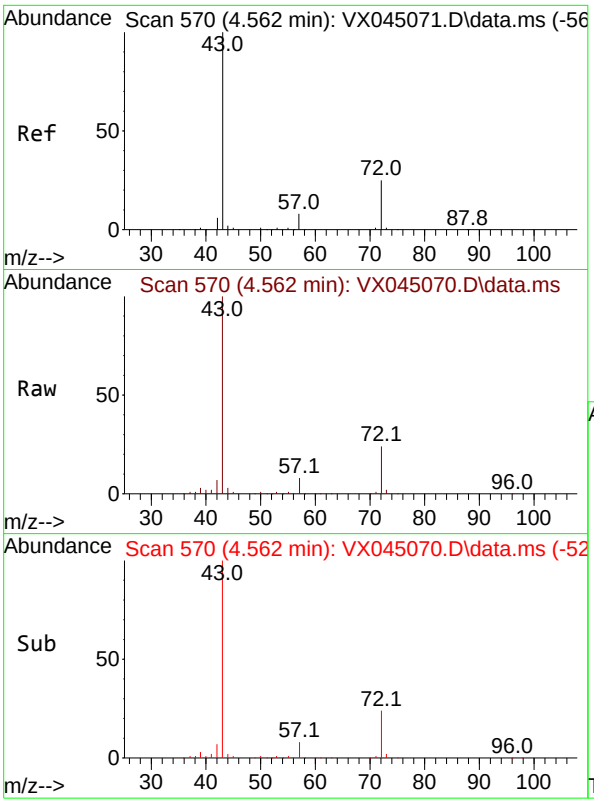


#24
1,1-Dichloroethane
Concen: 20.716 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 49826

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.9	2.1	6.5



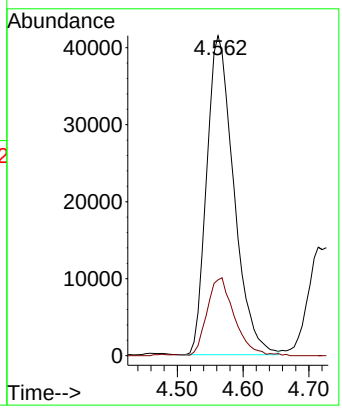


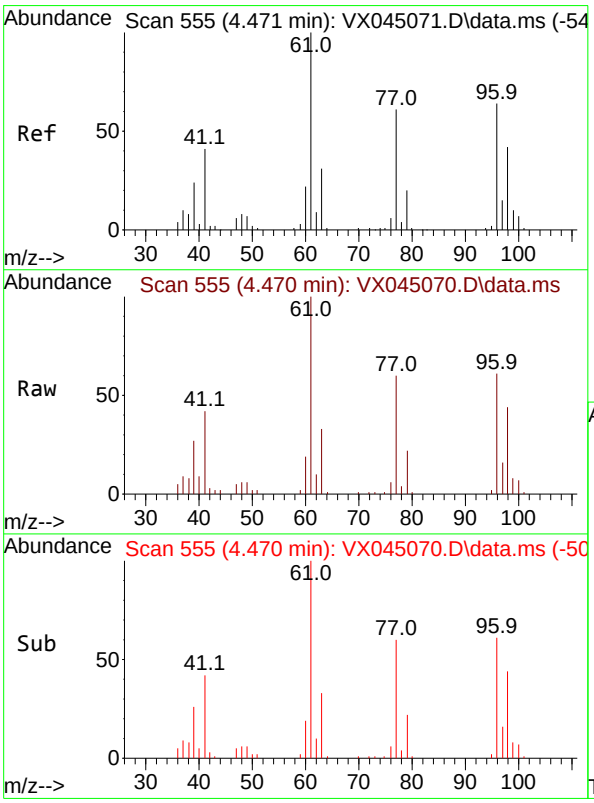
#25
2-Butanone
Concen: 124.449 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 118713

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.0	30.0

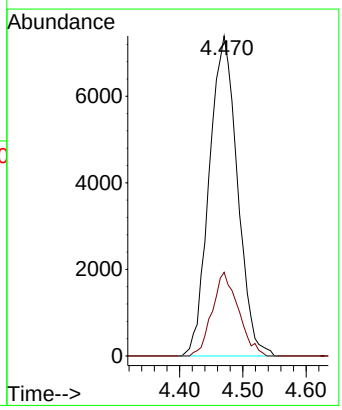


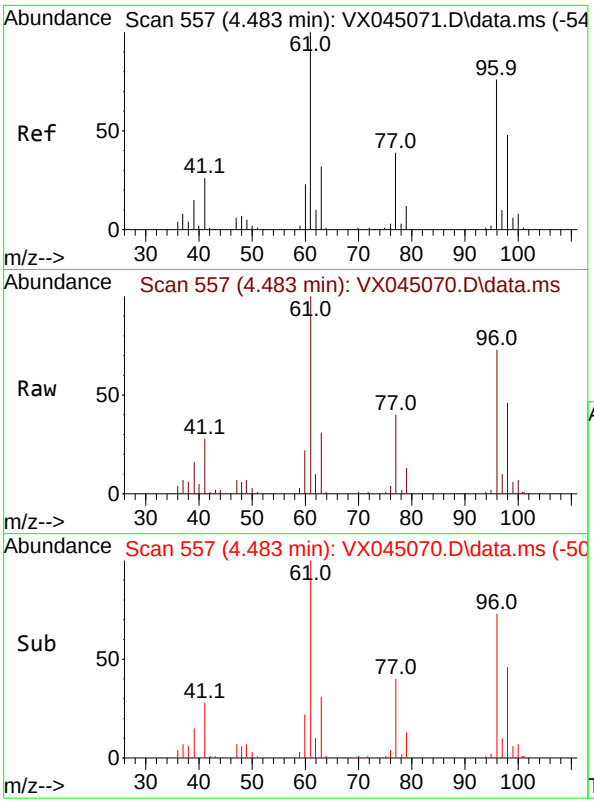


#26
2,2-Dichloropropane
Concen: 12.799 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 77 Resp: 22886

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.4	37.0



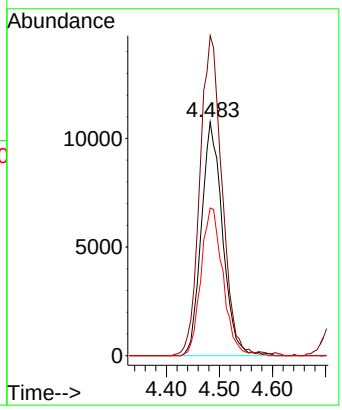


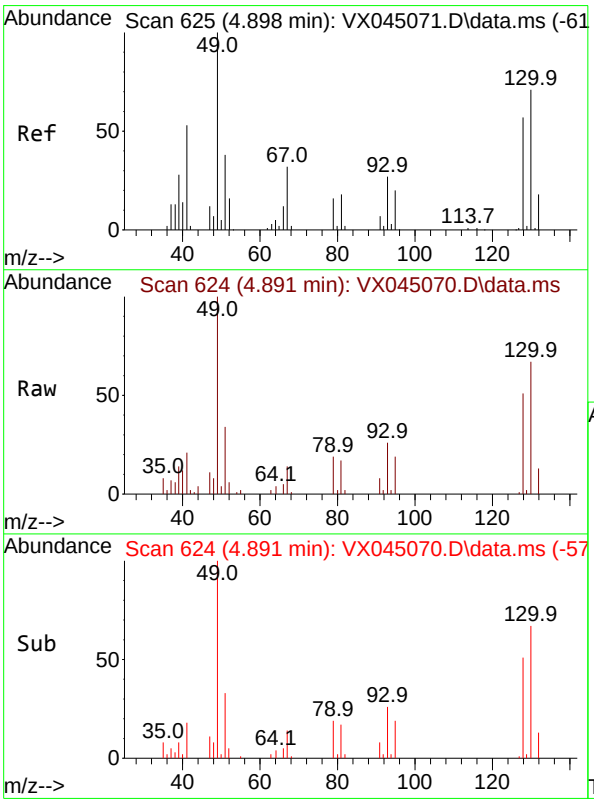
#27
cis-1,2-Dichloroethene
Concen: 20.065 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 29788

Ion	Ratio	Lower	Upper
96	100		
61	142.7	0.0	283.2
98	65.6	0.0	128.0

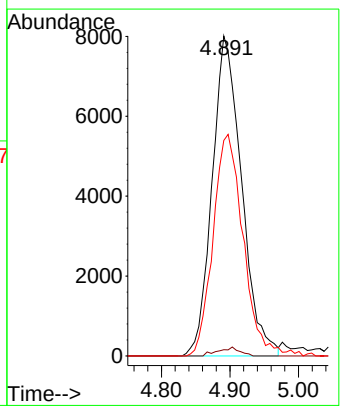


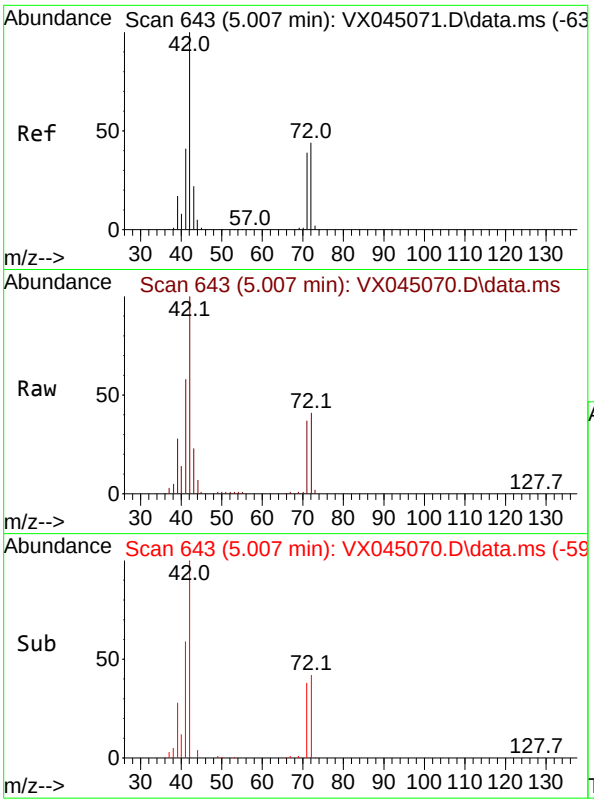


#28
Bromochloromethane
Concen: 20.579 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 49 Resp: 23869

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	70.6	56.1	84.1



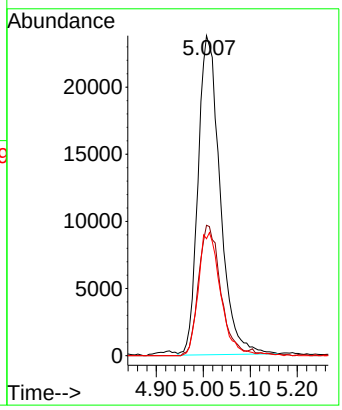


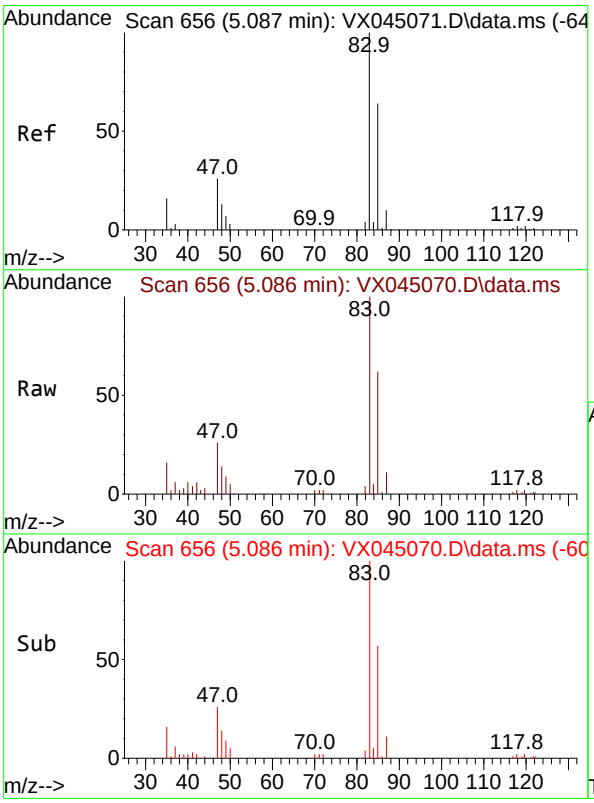
#29
Tetrahydrofuran
Concen: 122.519 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 77433

Ion	Ratio	Lower	Upper
42	100		
72	41.0	34.1	51.1
71	39.0	31.4	47.0

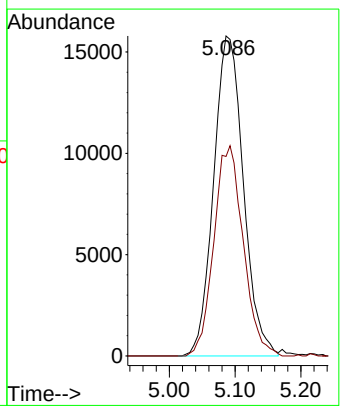


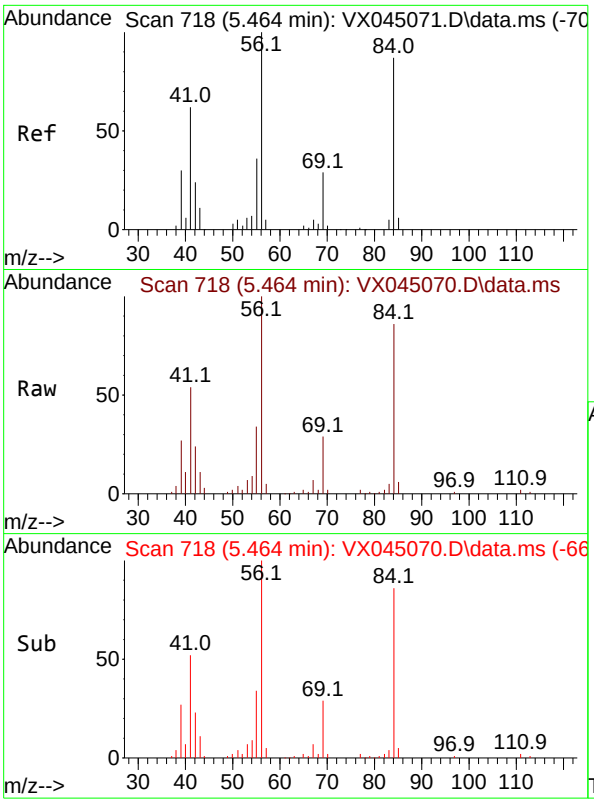


#30
Chloroform
Concen: 21.147 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 49751

Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.4	77.2



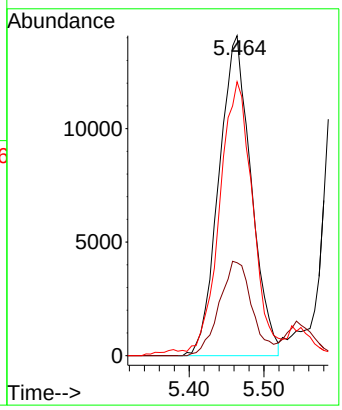


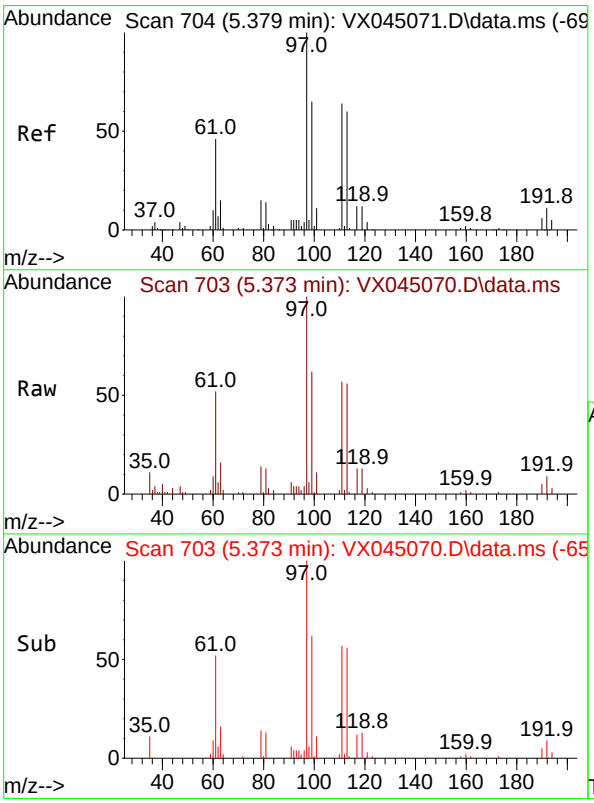
#31
Cyclohexane
Concen: 19.181 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 42340

Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.4	35.2
84	84.2	69.4	104.2

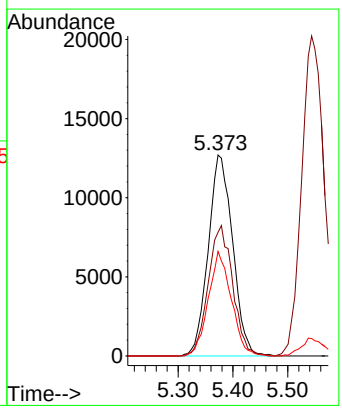


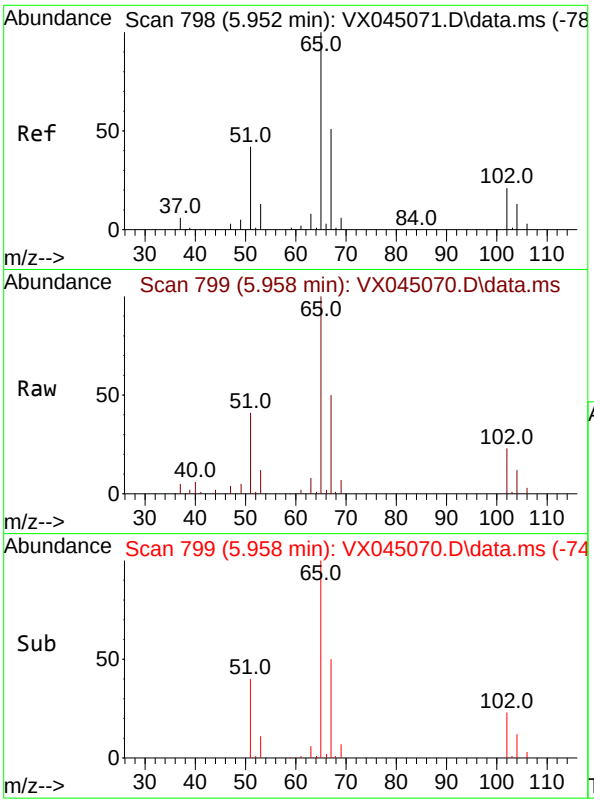


#32
1,1,1-Trichloroethane
Concen: 19.831 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 97 Resp: 39276

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.6	77.4
61	48.9	38.4	57.6



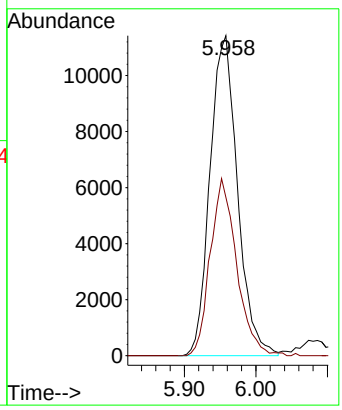


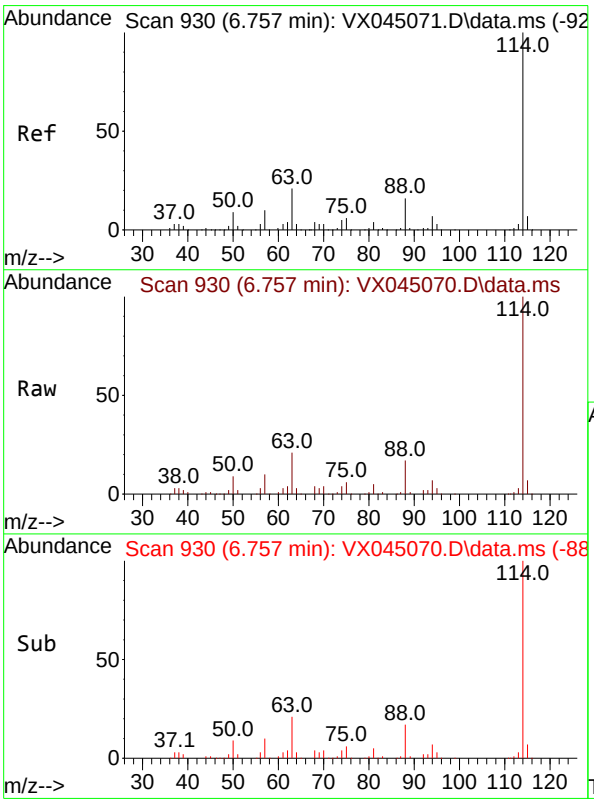
#33
1,2-Dichloroethane-d4
Concen: 21.221 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 30514

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.2

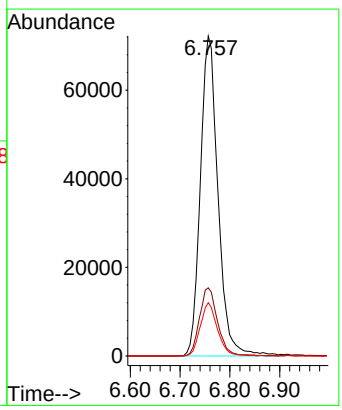


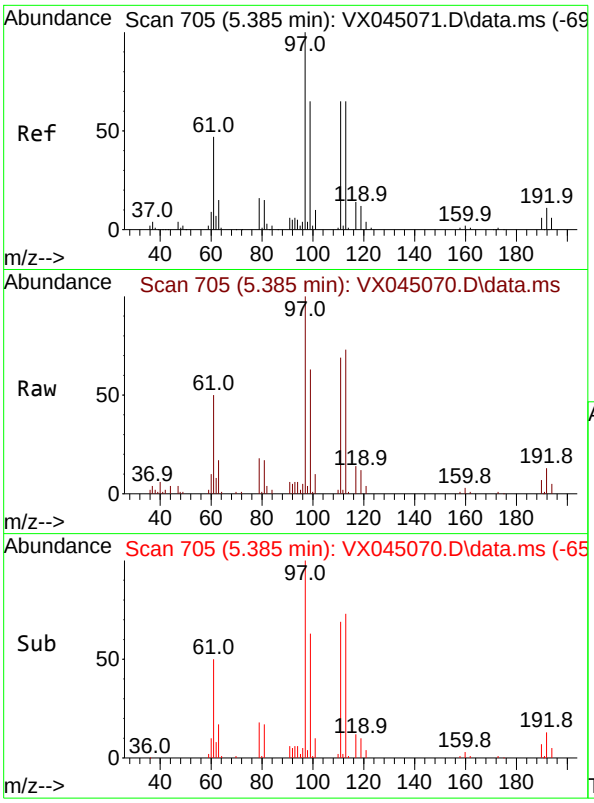


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:114 Resp: 177403

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	41.8
88	16.6	0.0	32.8



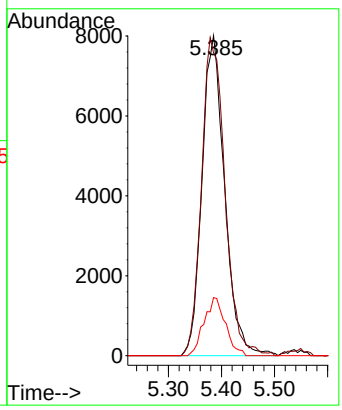


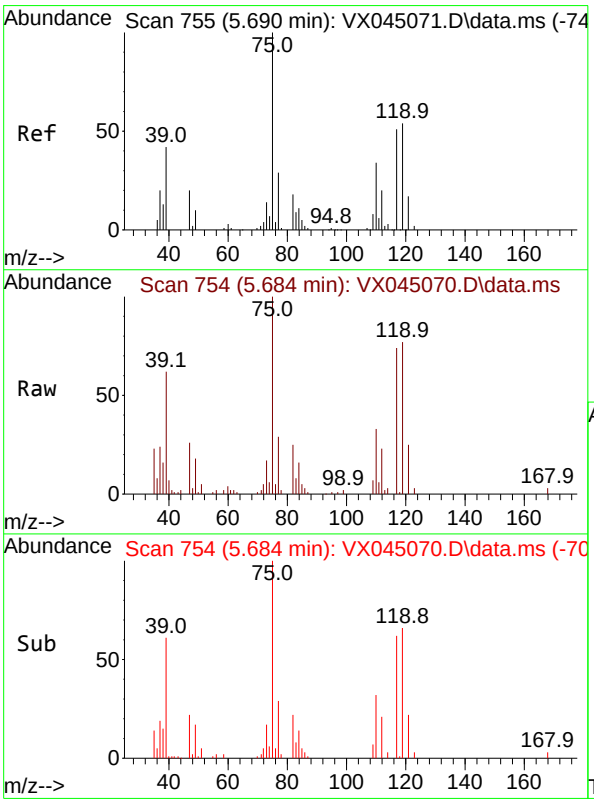
#35
Dibromofluoromethane
Concen: 20.473 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 23739

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	17.2	14.3	21.5

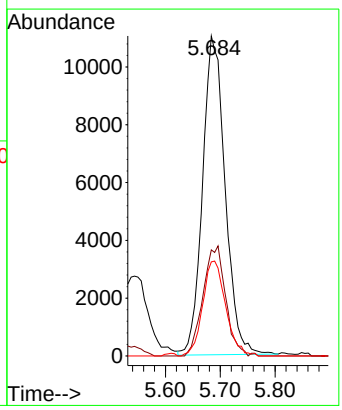


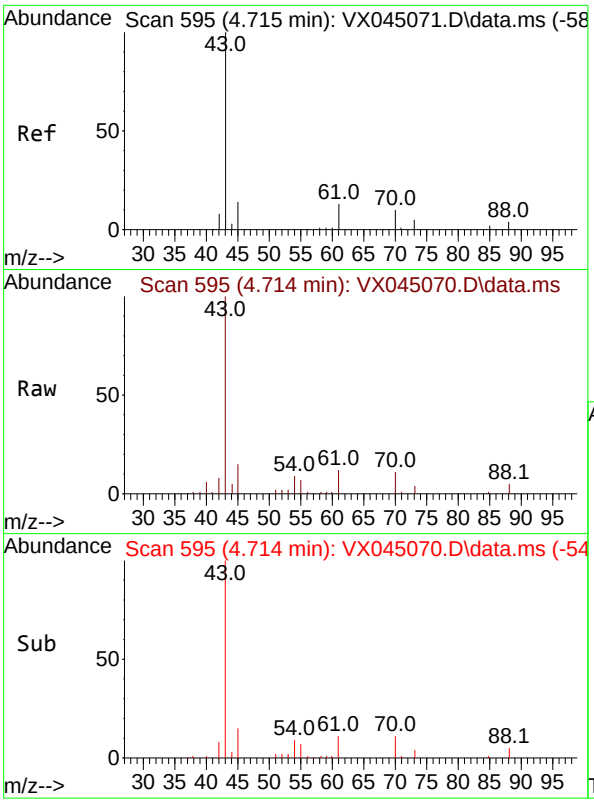


#36
1,1-Dichloropropene
Concen: 18.903 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 31519

Ion	Ratio	Lower	Upper
75	100		
110	34.4	16.9	50.6
77	30.3	24.5	36.7



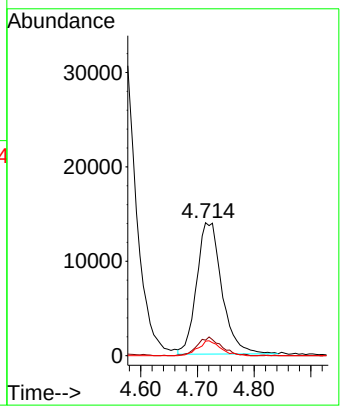


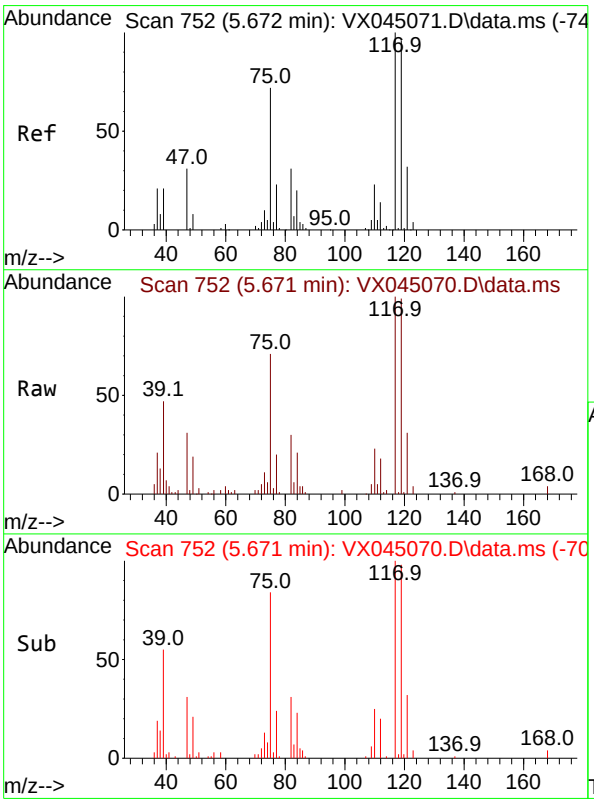
#37
Ethyl Acetate
Concen: 22.714 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 43097

Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.8	16.2
70	10.1	7.7	11.5

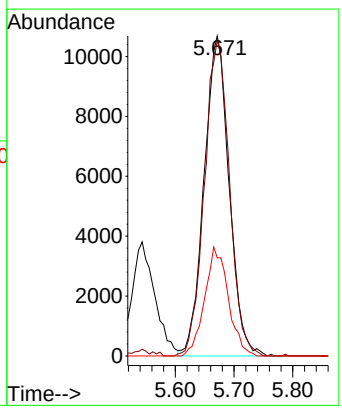


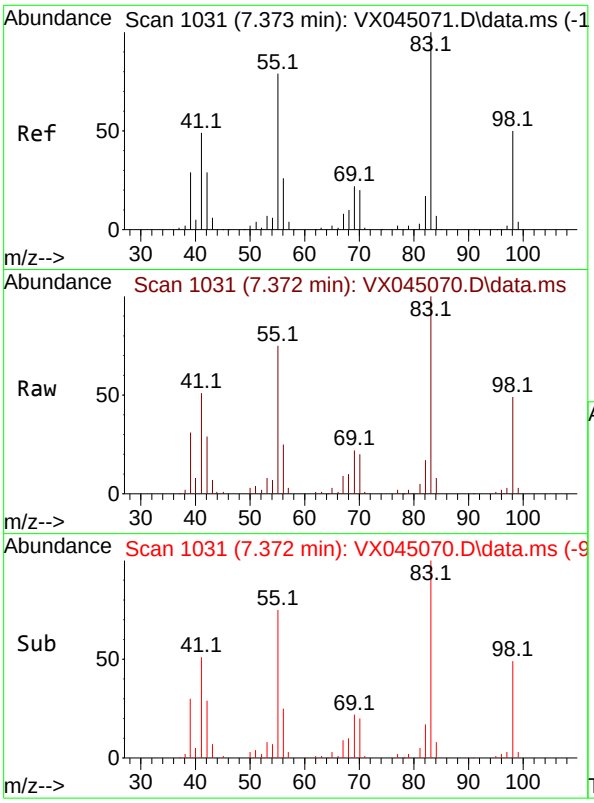


#38
Carbon Tetrachloride
Concen: 19.334 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:117 Resp: 31694

Ion	Ratio	Lower	Upper
117	100		
119	98.7	76.7	115.1
121	30.7	25.5	38.3



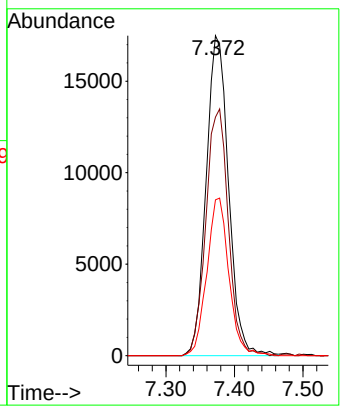


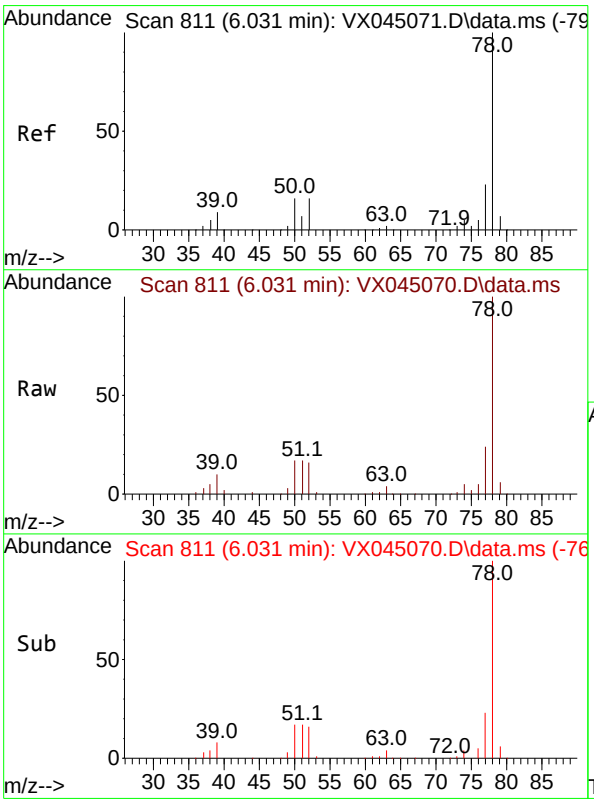
#39
Methylcyclohexane
Concen: 18.676 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 39769

Ion	Ratio	Lower	Upper
83	100		
55	74.6	63.0	94.4
98	48.7	39.7	59.5

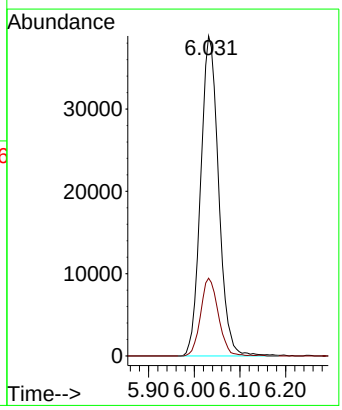


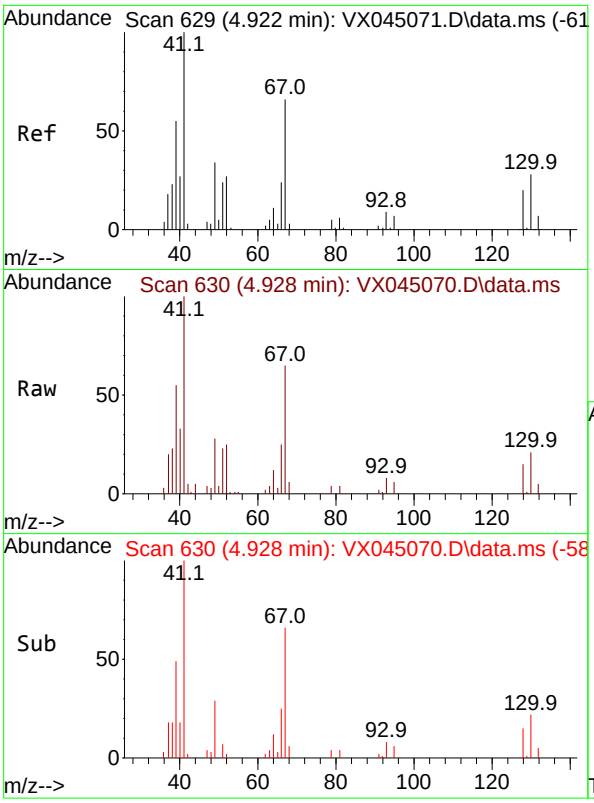


#40
Benzene
Concen: 20.298 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 78 Resp: 105787

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.8	28.2



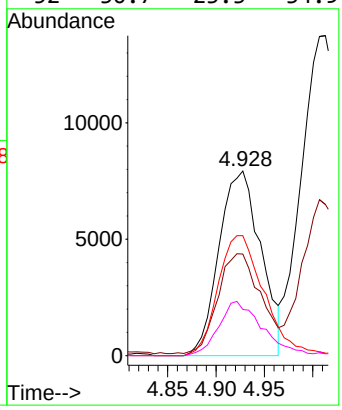


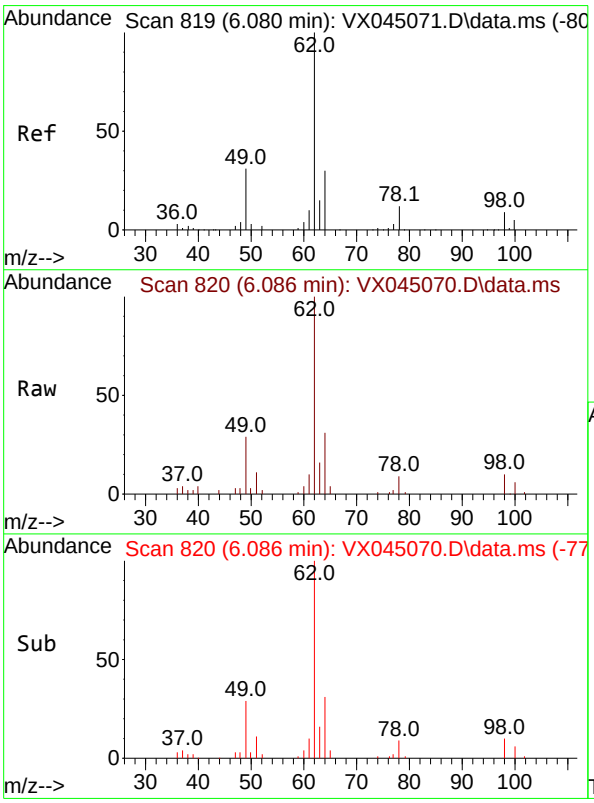
#41
Methacrylonitrile
Concen: 23.605 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 23924

Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.6	67.0
67	71.6	53.9	80.9
52	30.7	23.3	34.9

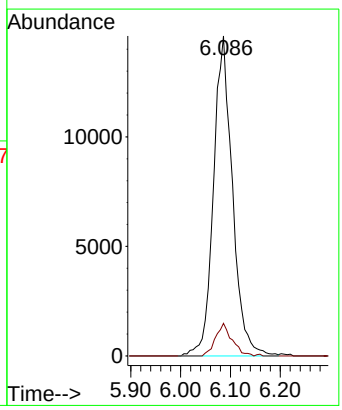


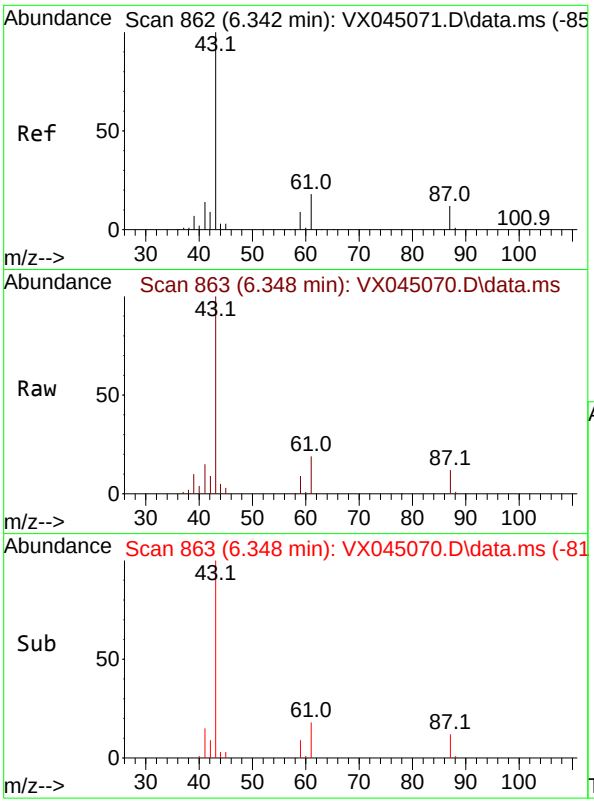


#42
1,2-Dichloroethane
Concen: 22.886 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 38653

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2



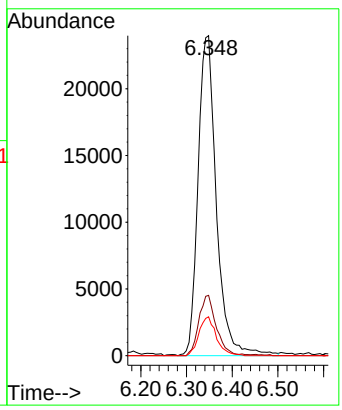


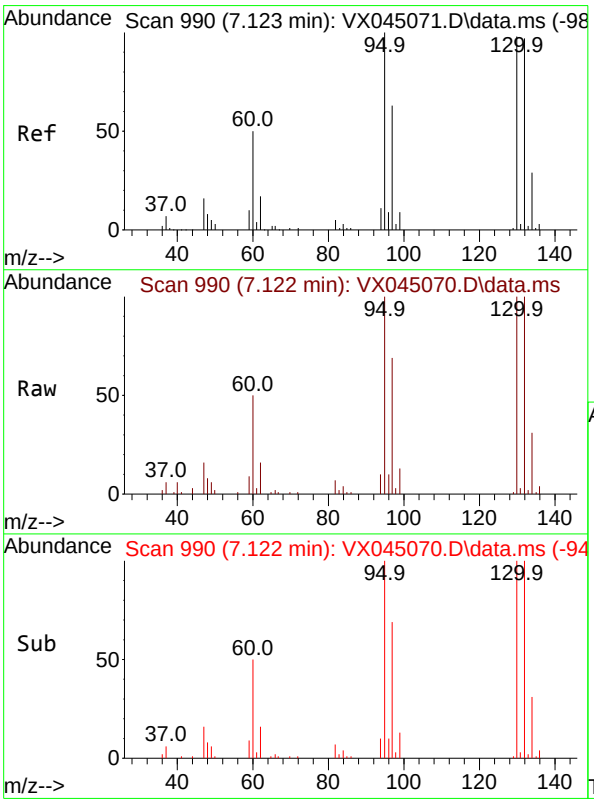
#43
Isopropyl Acetate
Concen: 22.094 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 66727

Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.9	22.3
87	11.5	9.4	14.2

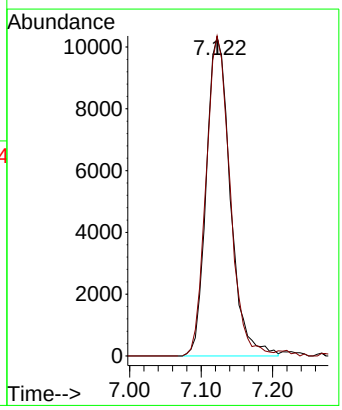


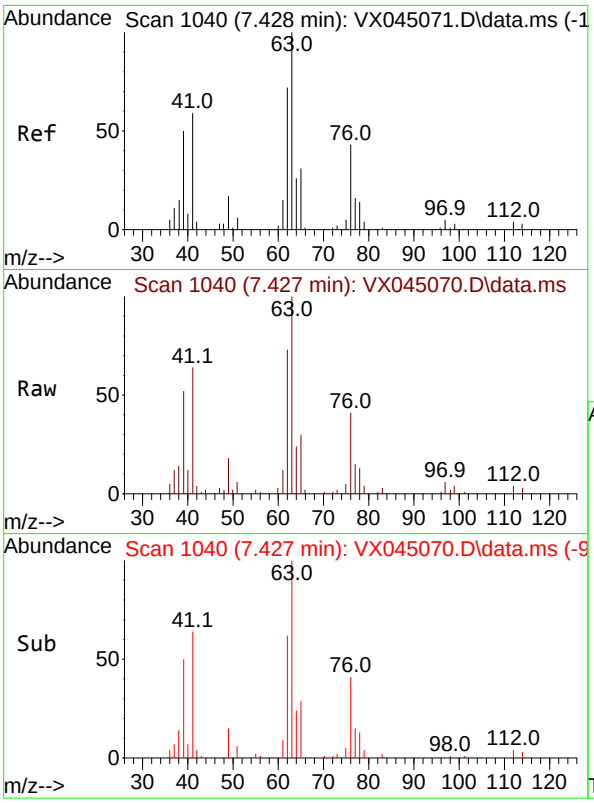


#44
Trichloroethene
Concen: 20.191 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:130 Resp: 24052

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	205.0



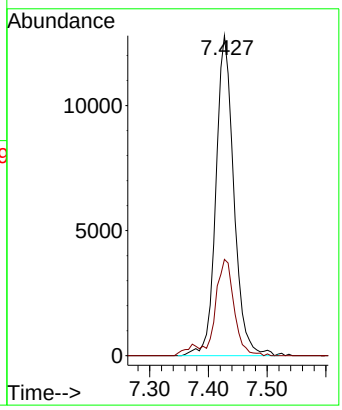


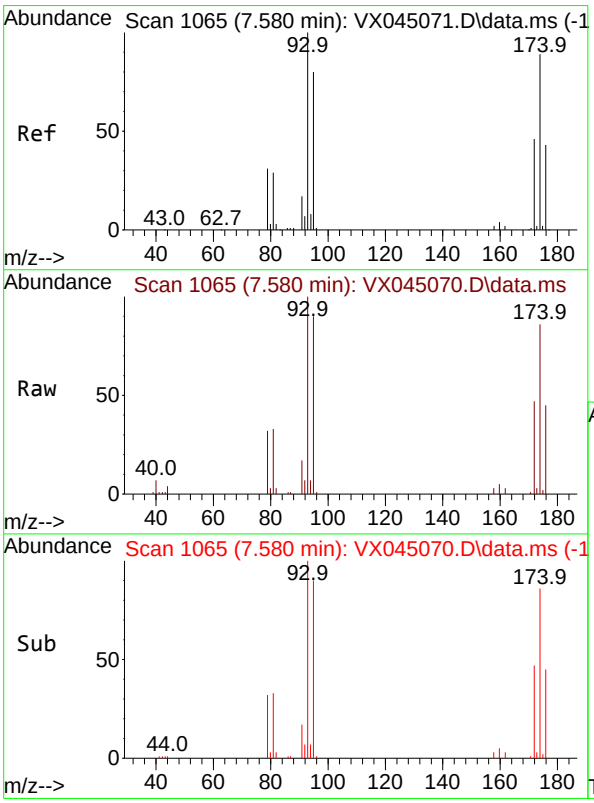
#45
1,2-Dichloropropane
Concen: 20.945 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 27128

Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.7	37.1

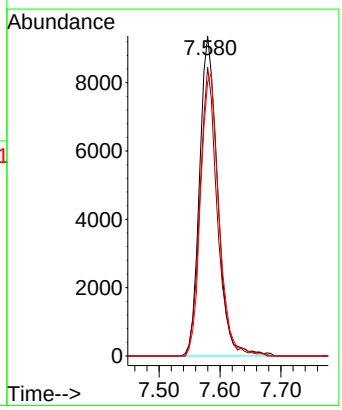


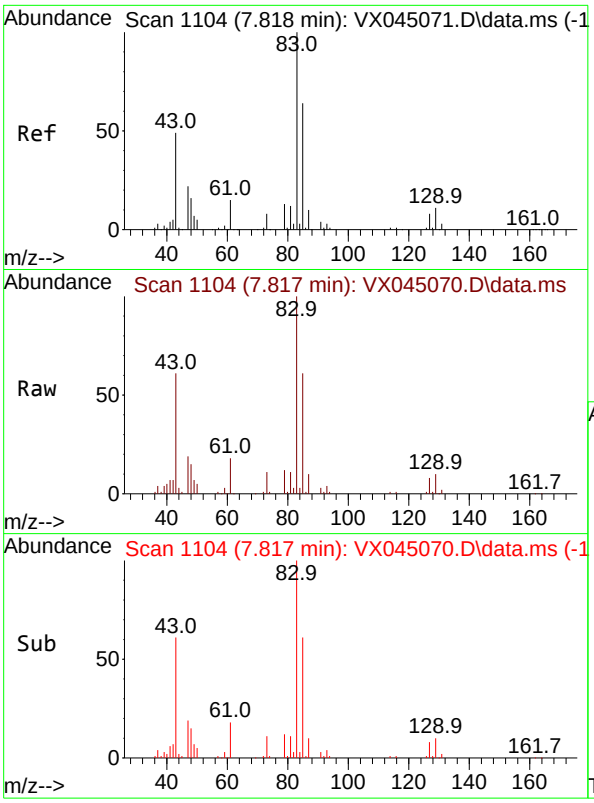


#46
Dibromomethane
Concen: 21.357 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 93 Resp: 19323

Ion	Ratio	Lower	Upper
93	100		
95	86.4	65.8	98.8
174	89.6	72.2	108.2



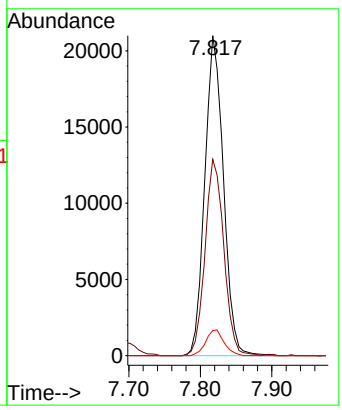


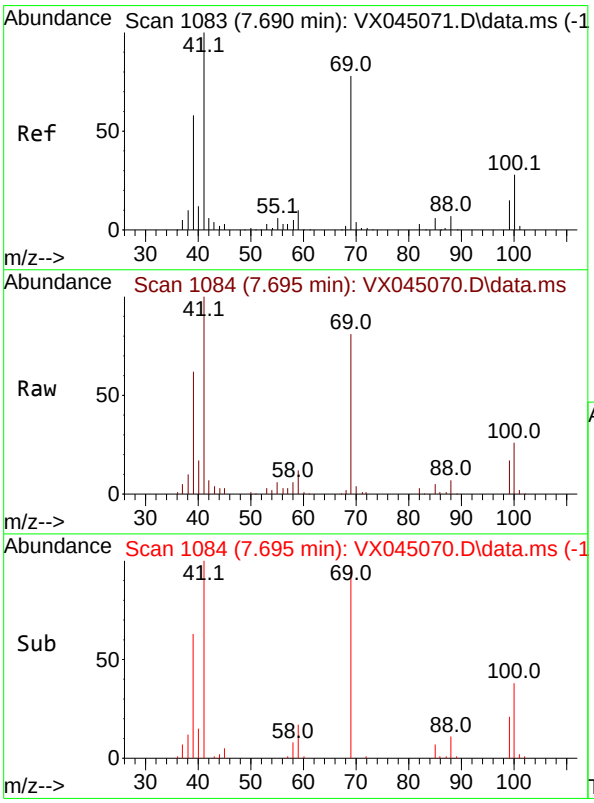
#47
Bromodichloromethane
Concen: 21.732 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 38038

Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.1	76.7
127	7.8	6.4	9.6

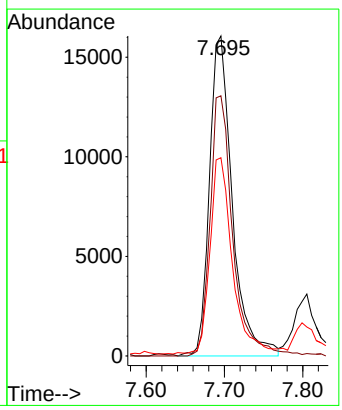


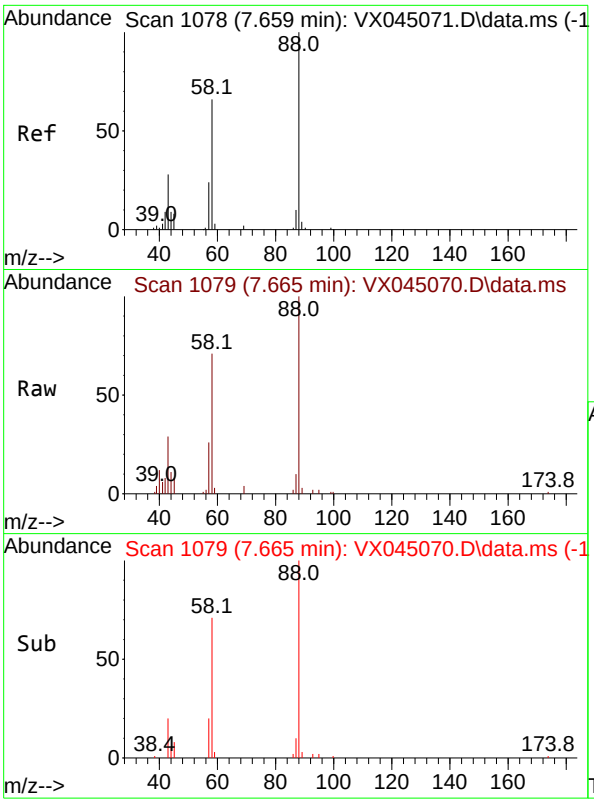


#48
Methyl methacrylate
Concen: 22.757 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 32627

Ion	Ratio	Lower	Upper
41	100		
69	81.2	63.0	94.6
39	59.8	47.5	71.3



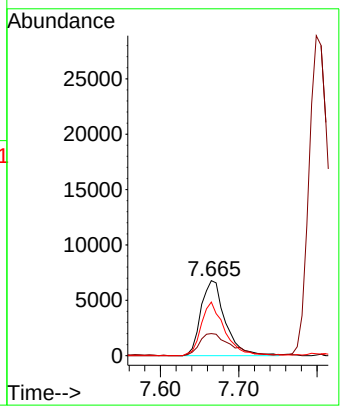


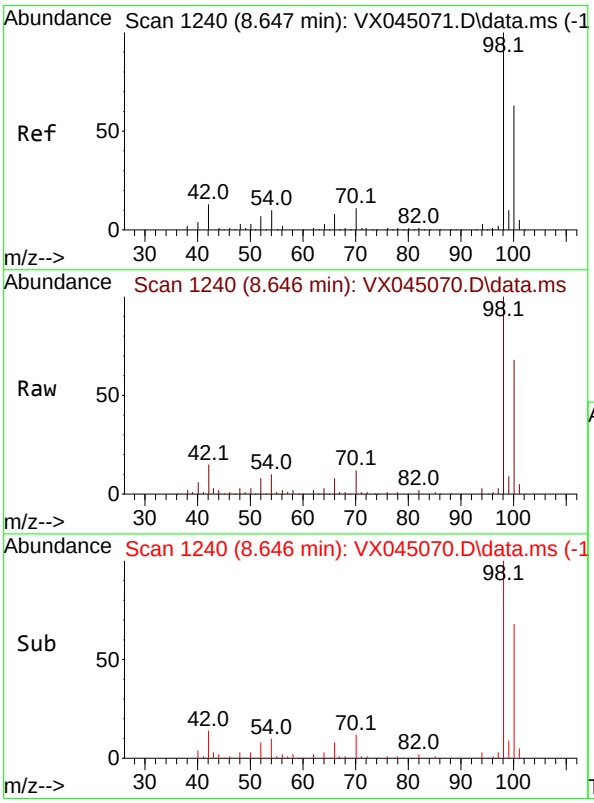
#49
1,4-Dioxane
Concen: 479.170 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 14602

Ion	Ratio	Lower	Upper
88	100		
43	38.7	28.7	43.1
58	68.3	55.8	83.8

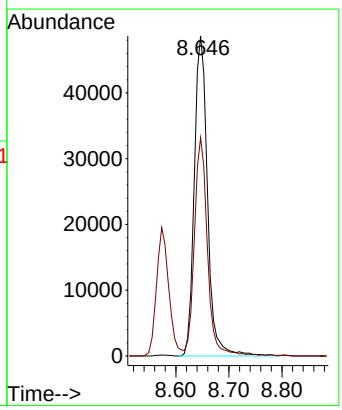


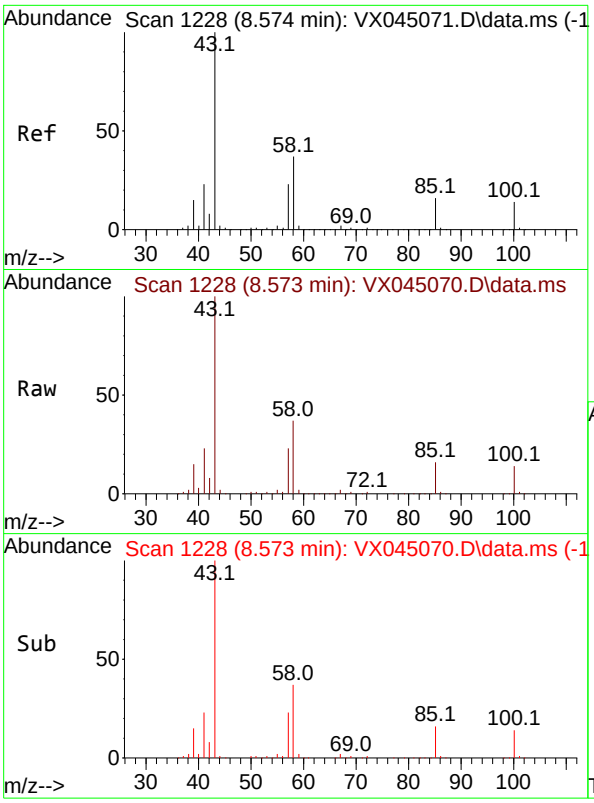


#50
Toluene-d8
Concen: 19.469 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 98 Resp: 84516

Ion	Ratio	Lower	Upper
98	100		
100	67.2	52.0	78.0



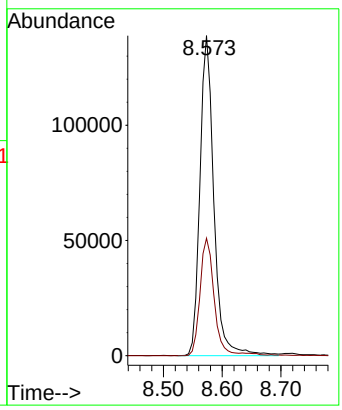


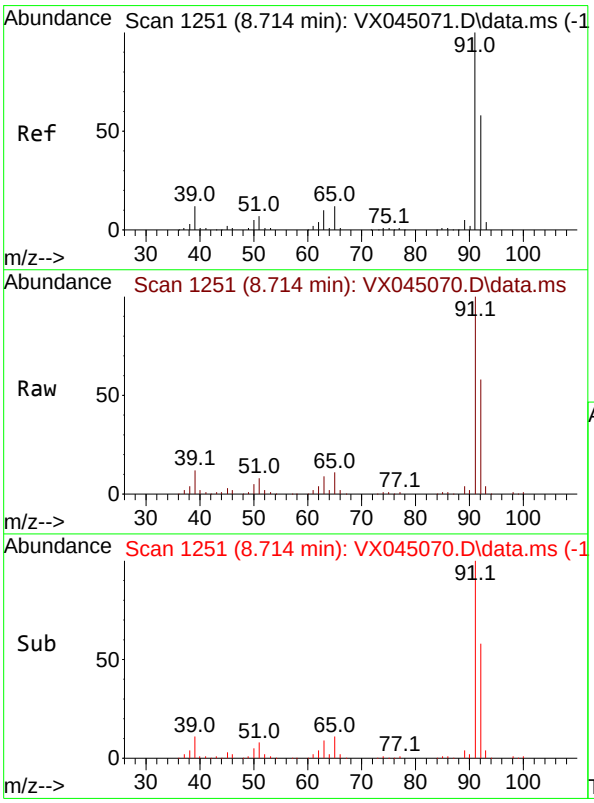
#51
4-Methyl-2-Pentanone
Concen: 124.081 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 229615

Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.2	43.8

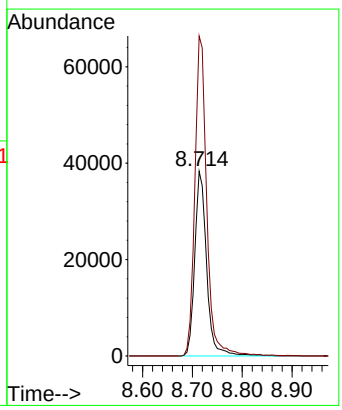


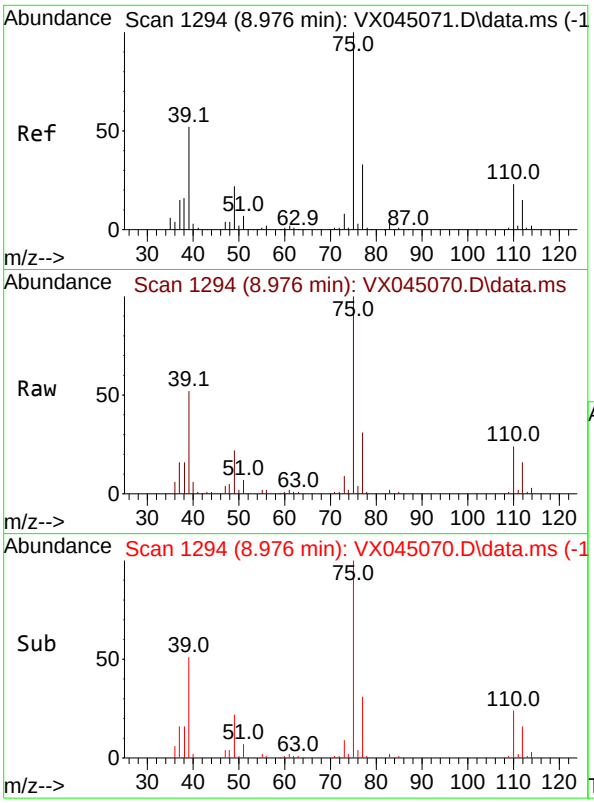


#52
Toluene
Concen: 20.463 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 92 Resp: 63326

Ion	Ratio	Lower	Upper
92	100		
91	173.7	138.9	208.3



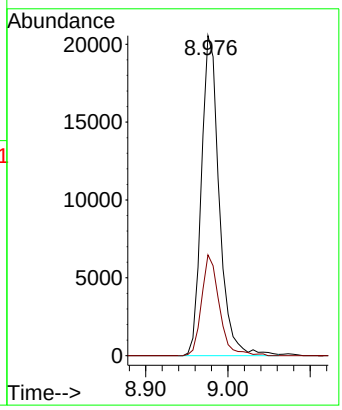


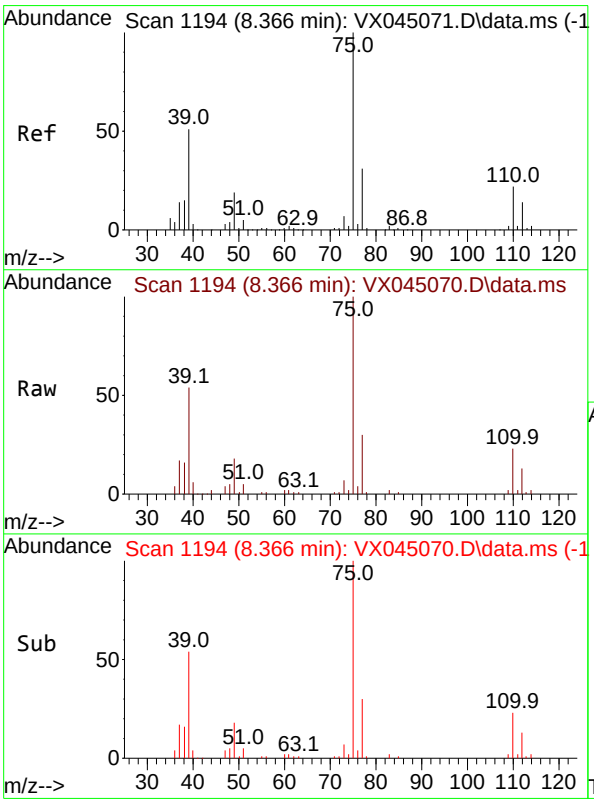
#53
t-1,3-Dichloropropene
Concen: 17.871 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 30917

Ion	Ratio	Lower	Upper
75	100		
77	31.5	26.5	39.7

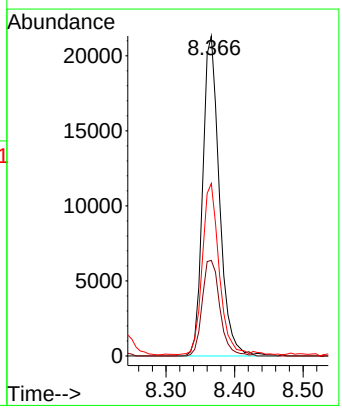


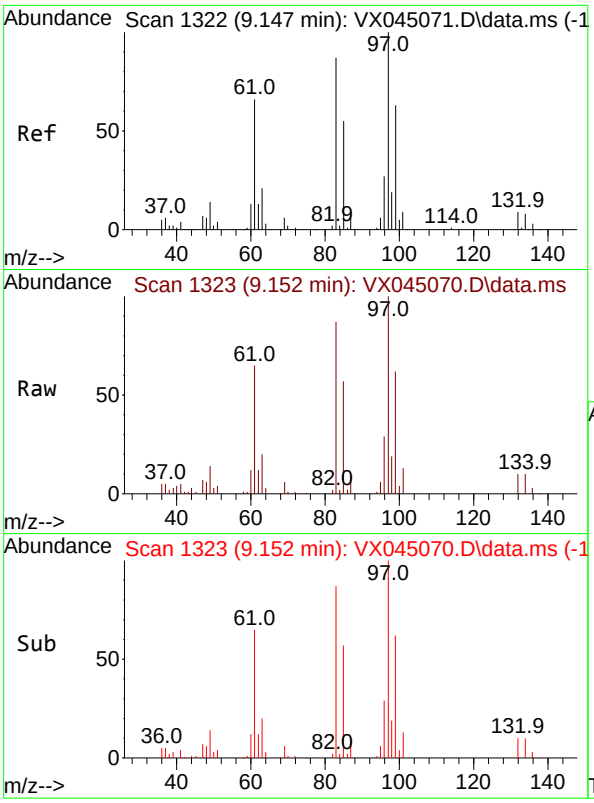


#54
cis-1,3-Dichloropropene
Concen: 18.675 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 36118

Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.7	37.1
39	53.5	40.7	61.1



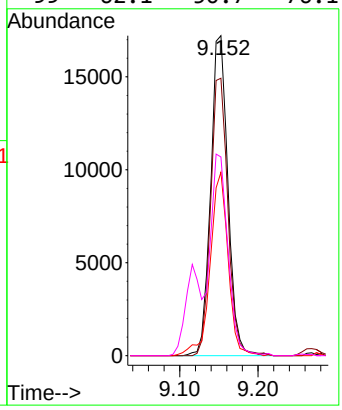


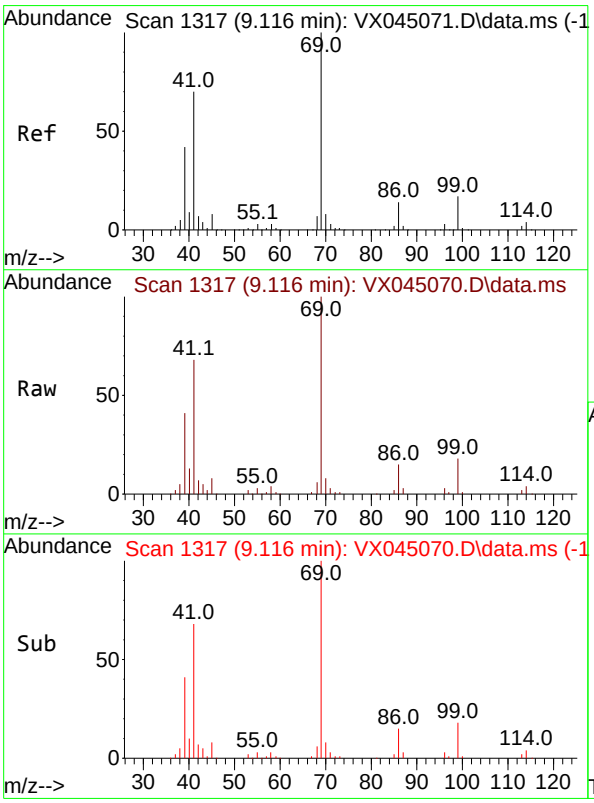
#55
1,1,2-Trichloroethane
Concen: 21.992 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 26358

Ion	Ratio	Lower	Upper
97	100		
83	86.7	69.4	104.2
85	57.3	44.1	66.1
99	62.1	50.7	76.1

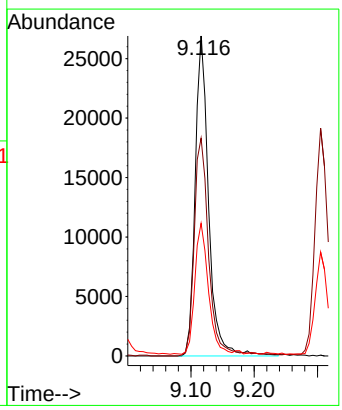


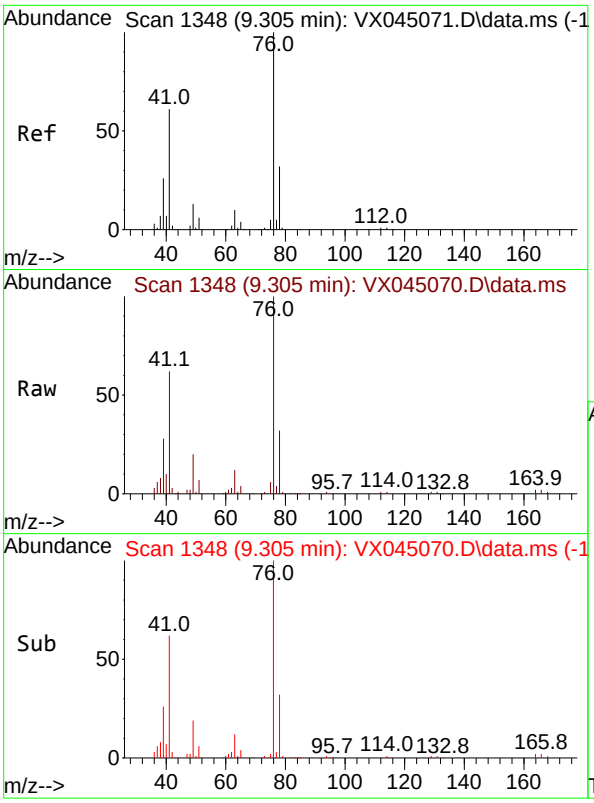


#56
Ethyl methacrylate
Concen: 20.791 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 69 Resp: 39850

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.0	85.4
39	40.6	34.2	51.4



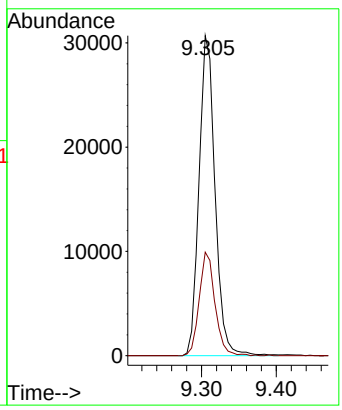


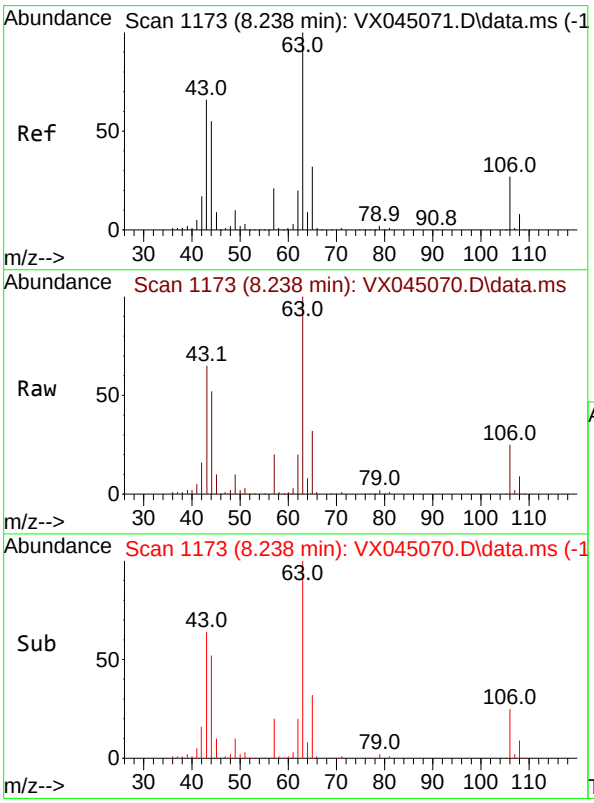
#57
1,3-Dichloropropane
Concen: 21.836 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 45644

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

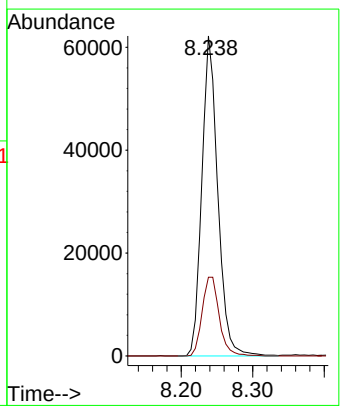


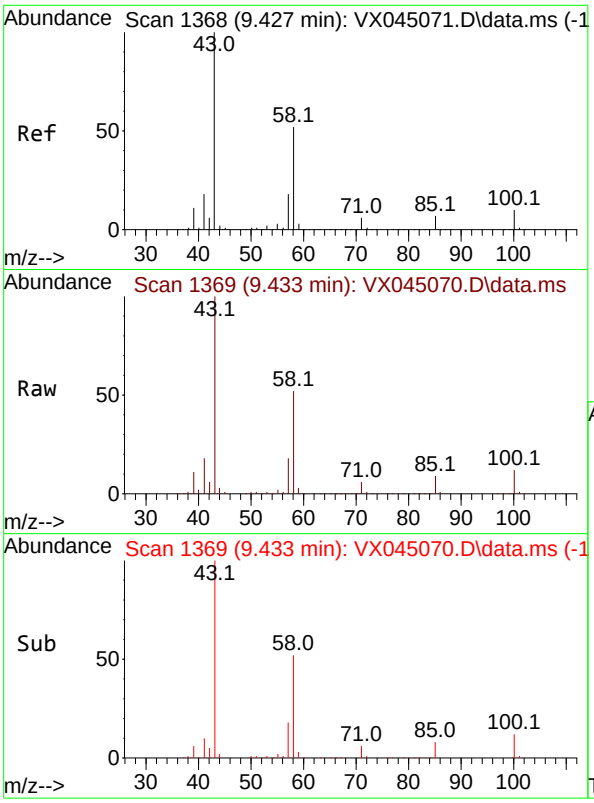


#58
2-Chloroethyl Vinyl ether
Concen: 102.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 96311

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3



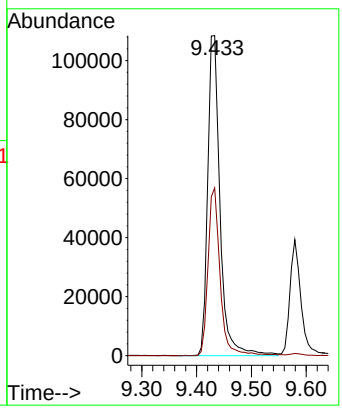


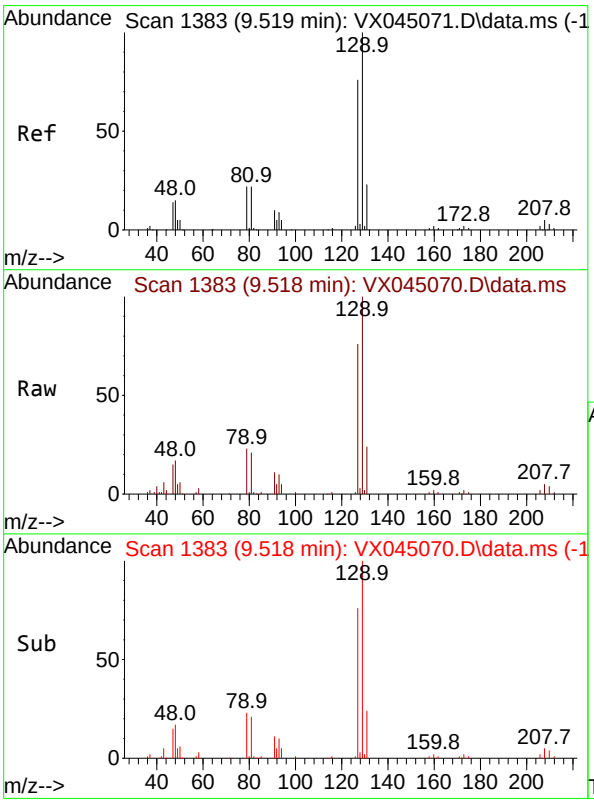
#59
2-Hexanone
Concen: 126.428 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 168768

Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.9	77.6

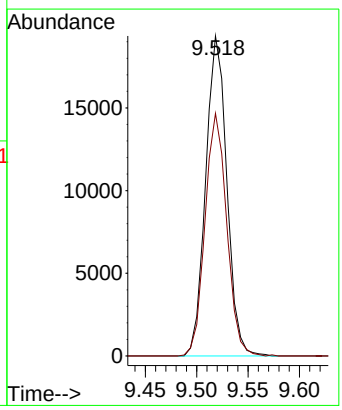


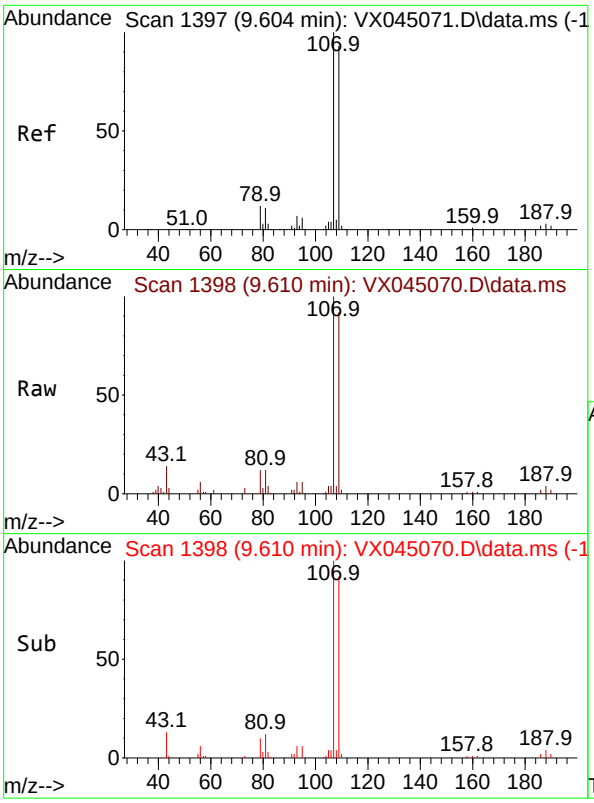


#60
Dibromochloromethane
Concen: 21.668 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:129 Resp: 27705

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5



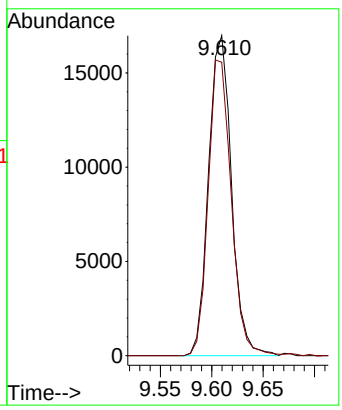


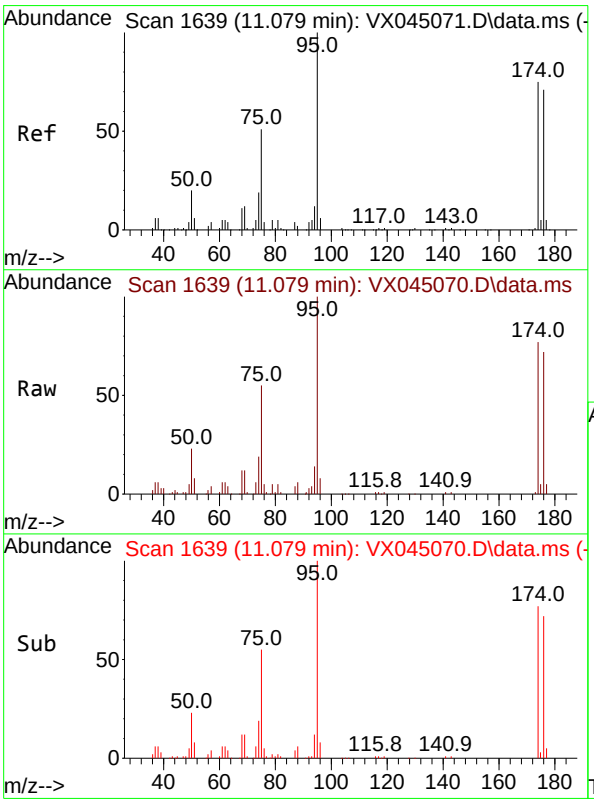
#61
1,2-Dibromoethane
Concen: 21.764 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 26311

Ion	Ratio	Lower	Upper
107	100		
109	93.3	76.1	114.1

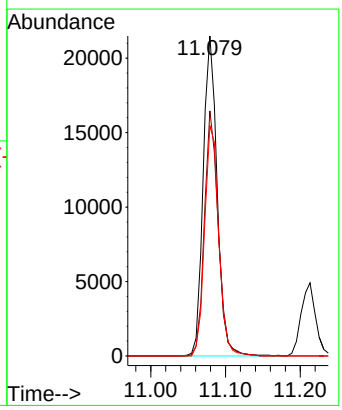


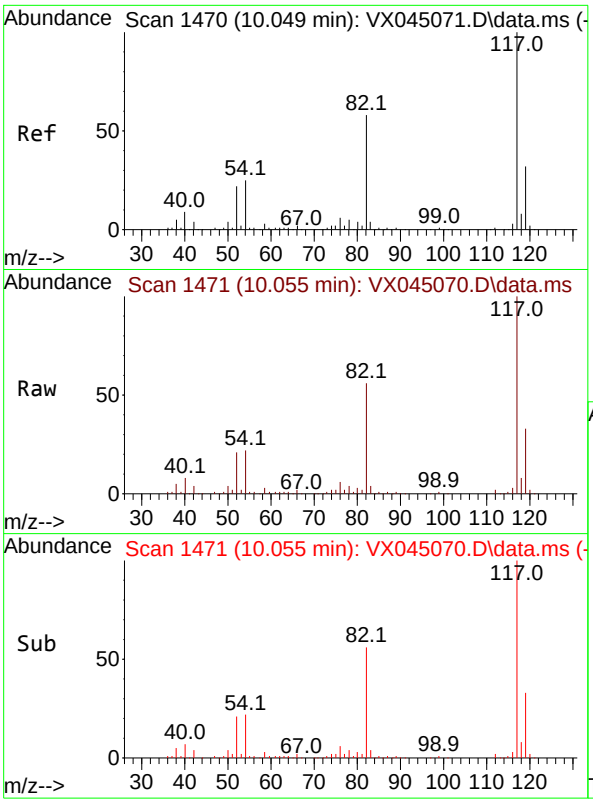


#62
4-Bromofluorobenzene
Concen: 19.215 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 95 Resp: 27856

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	148.2
176	72.8	0.0	141.4



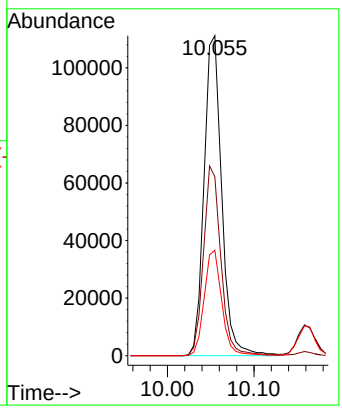


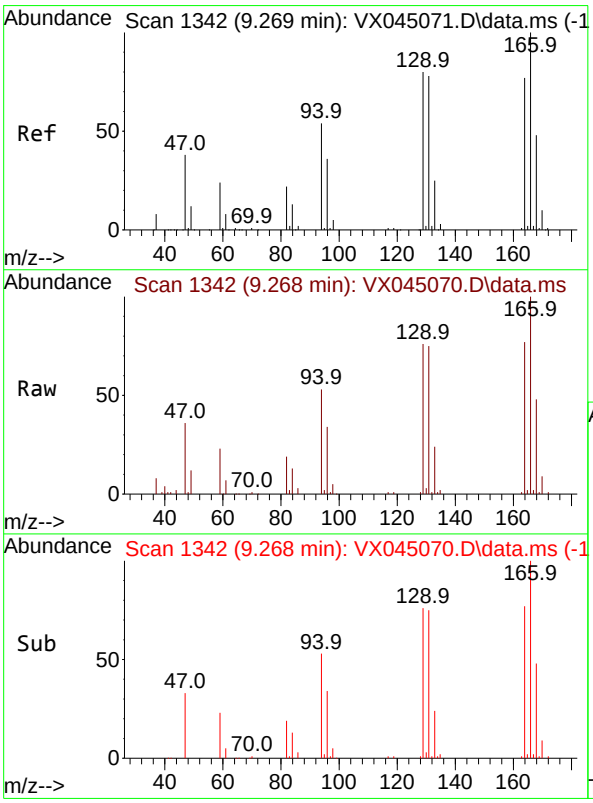
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 157714

Ion	Ratio	Lower	Upper
117	100		
82	55.9	46.3	69.5
119	33.0	25.7	38.5

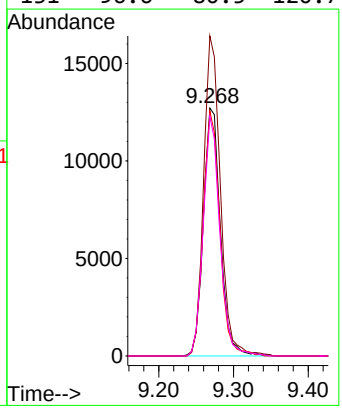


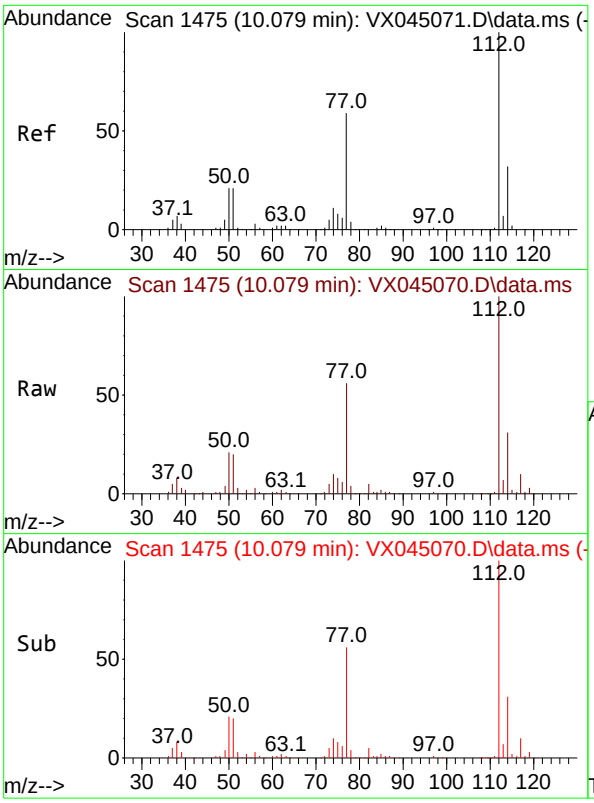


#64
Tetrachloroethene
Concen: 20.102 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:164 Resp: 20140

Ion	Ratio	Lower	Upper
164	100		
166	129.1	103.6	155.4
129	98.7	82.7	124.1
131	96.6	80.5	120.7



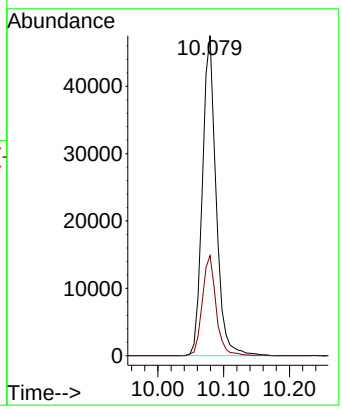


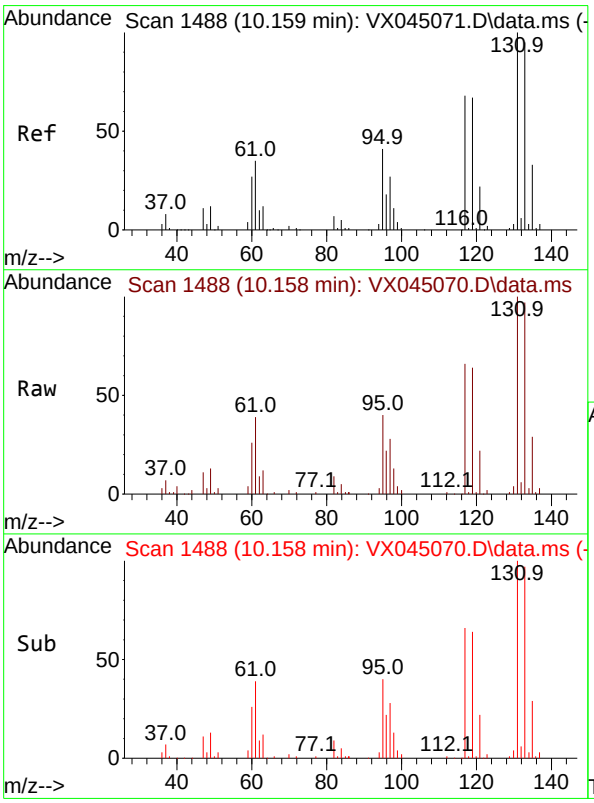
#65
Chlorobenzene
Concen: 20.316 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 68777

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.0	39.0

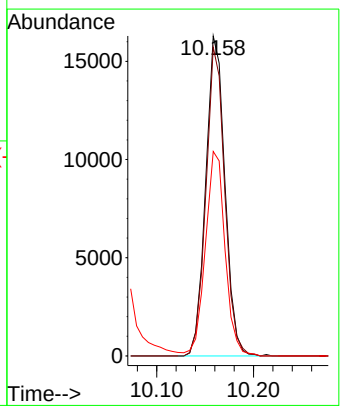


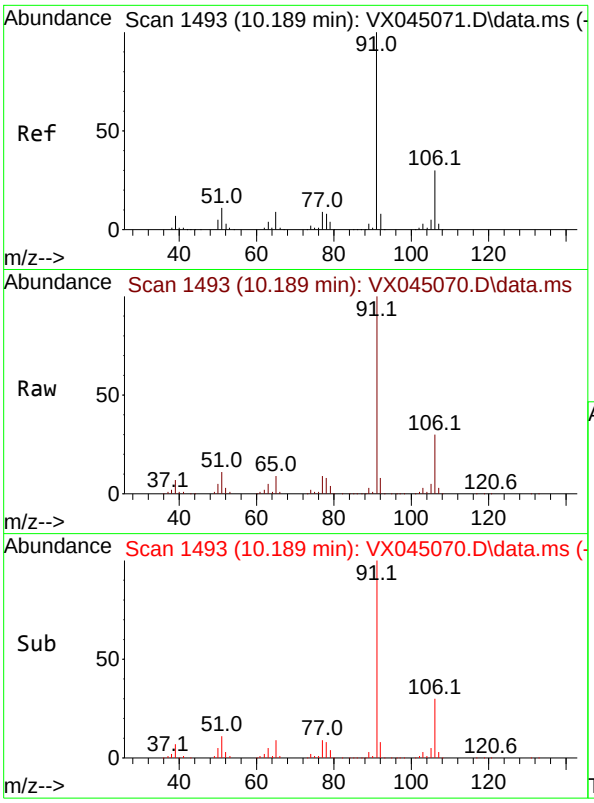


#66
1,1,1,2-Tetrachloroethane
Concen: 20.627 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:131 Resp: 22508

Ion	Ratio	Lower	Upper
131	100		
133	94.6	48.6	145.9
119	65.4	33.9	101.7



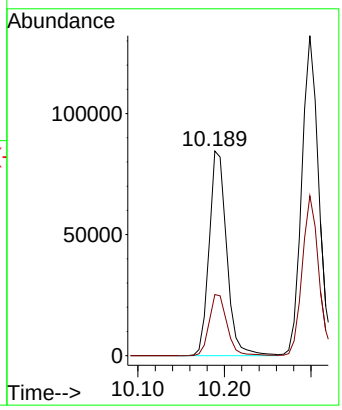


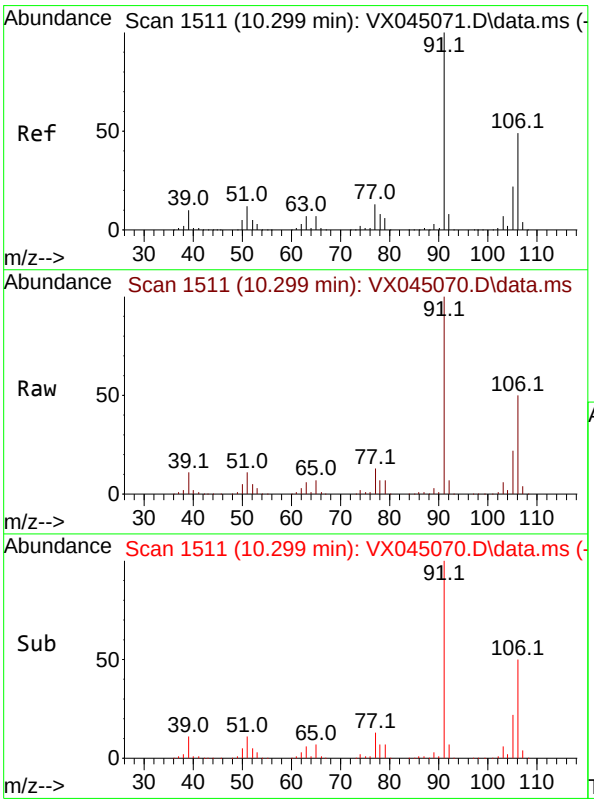
#67
Ethyl Benzene
Concen: 19.905 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 119165

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

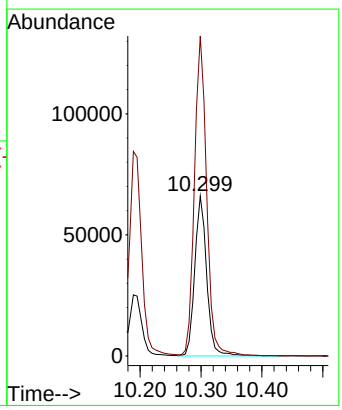


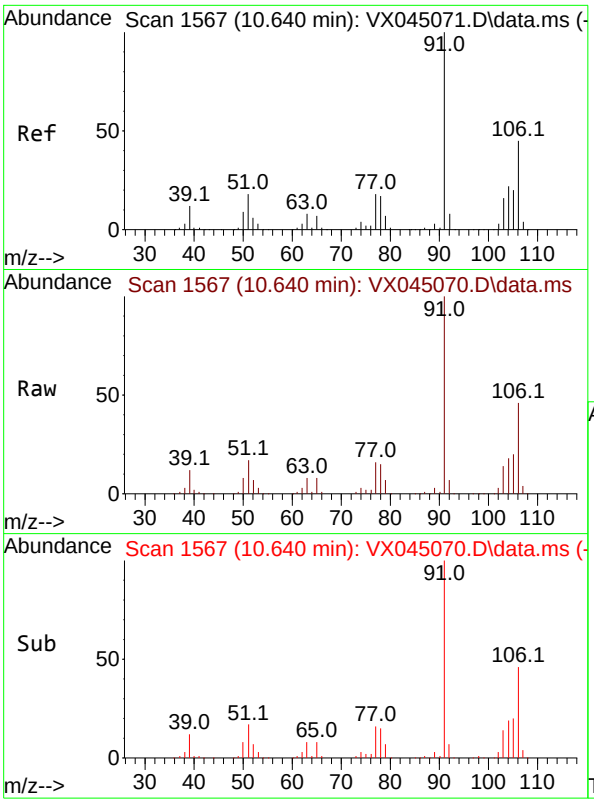


#68
m/p-Xylenes
Concen: 40.699 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:106 Resp: 89735

Ion	Ratio	Lower	Upper
106	100		
91	204.2	165.4	248.0



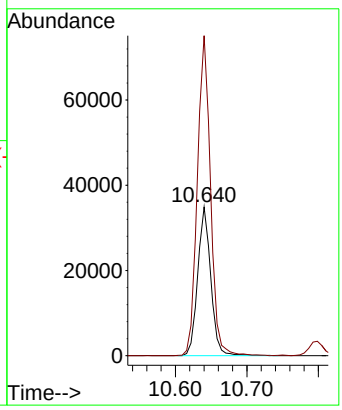


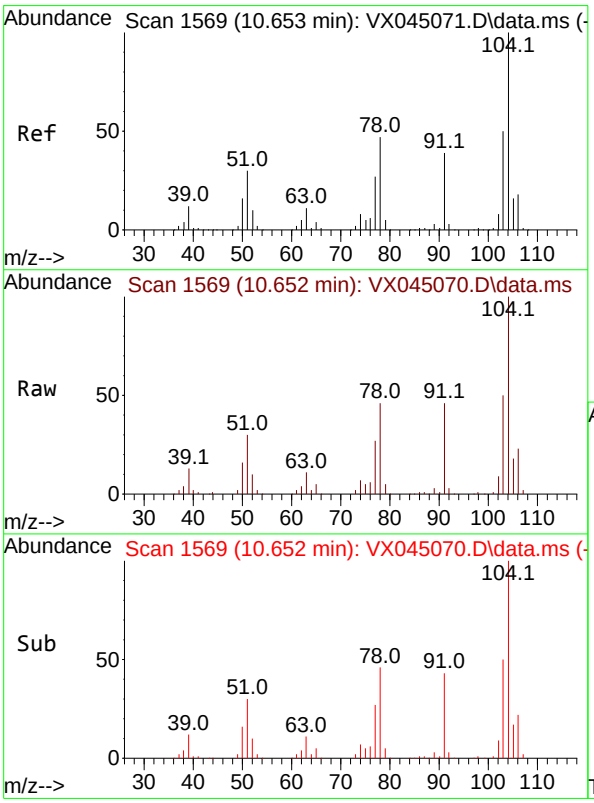
#69
o-Xylene
Concen: 20.018 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 44281

Ion	Ratio	Lower	Upper
106	100		
91	216.8	109.9	329.6

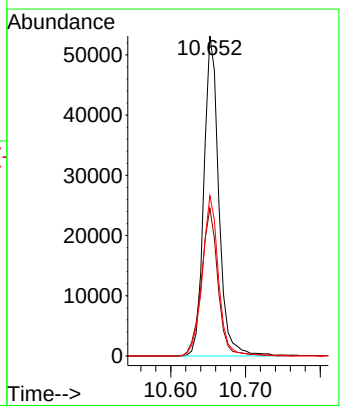


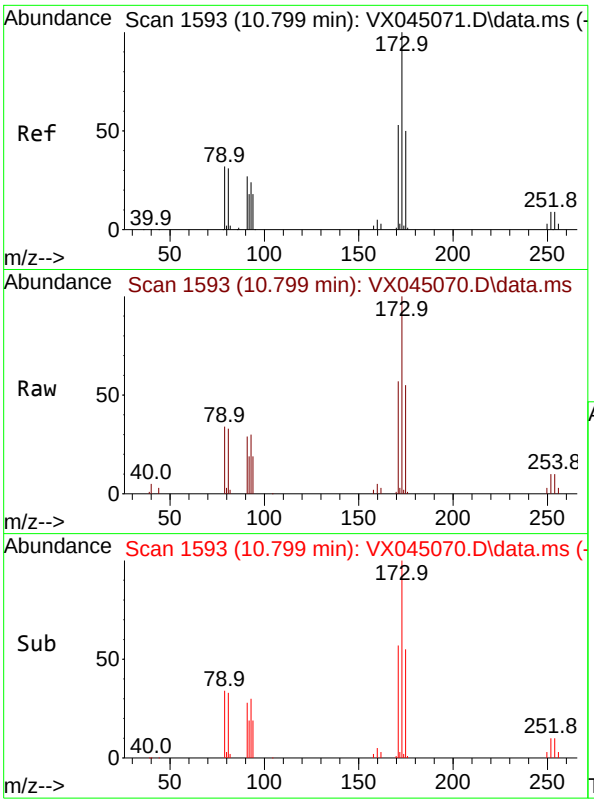


#70
Styrene
Concen: 20.767 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:104 Resp: 73832

Ion	Ratio	Lower	Upper
104	100		
78	50.9	42.2	63.4
103	54.1	43.8	65.8



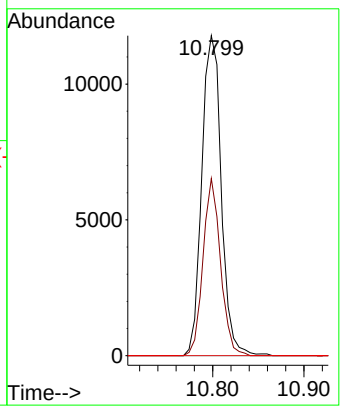


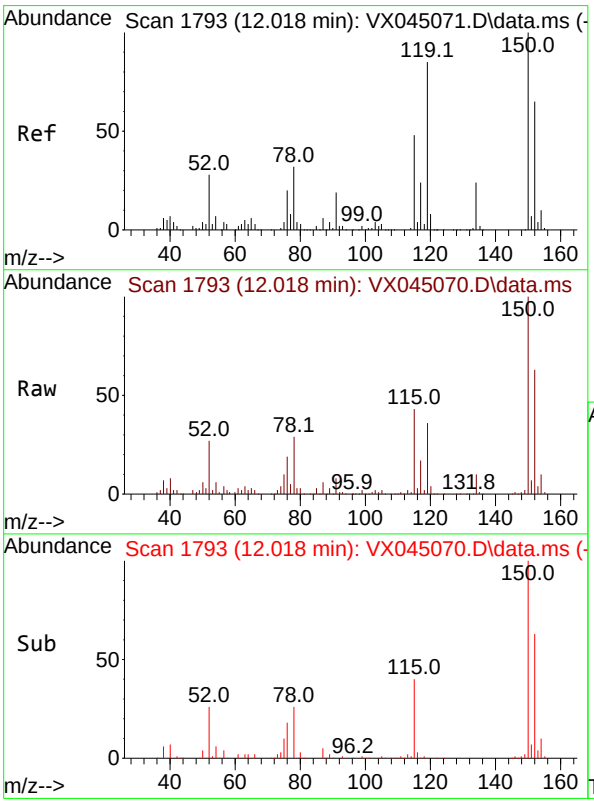
#71
Bromoform
Concen: 21.449 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 17403

Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	73.6
254	0.0	0.0	0.0

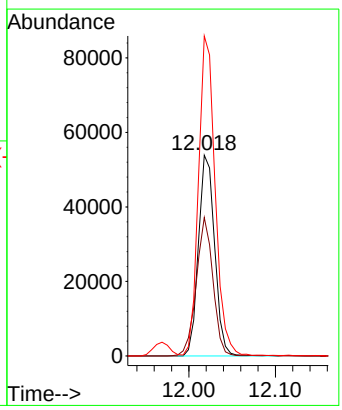


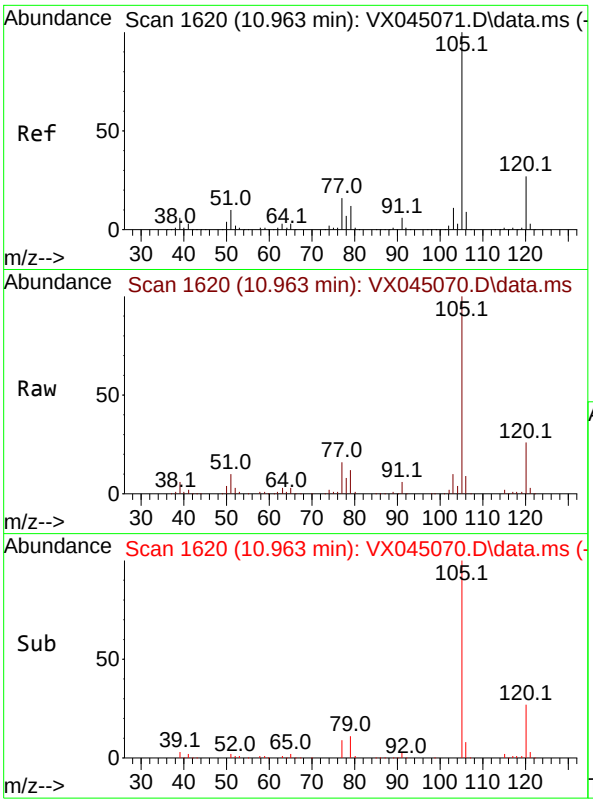


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:152 Resp: 70072

Ion	Ratio	Lower	Upper
152	100		
115	70.9	44.2	132.6
150	163.4	0.0	349.0



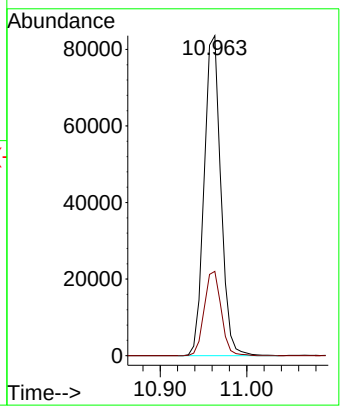


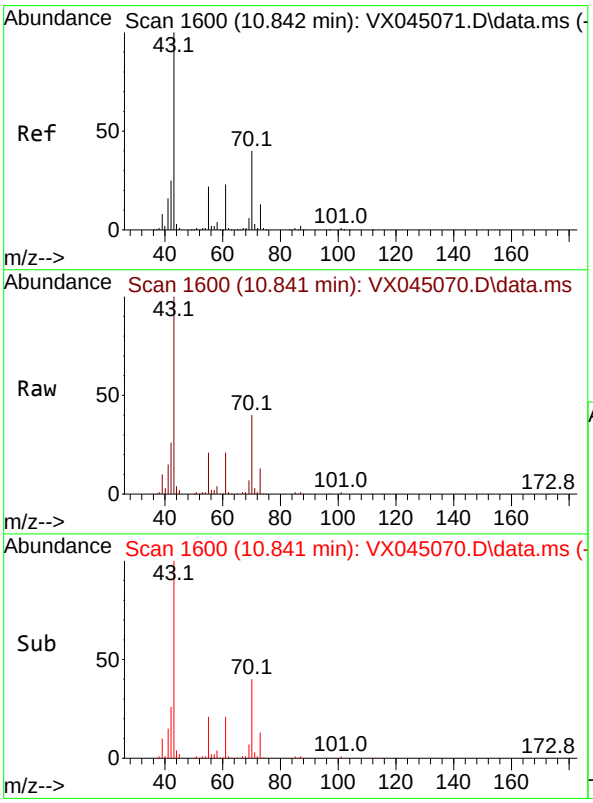
#73
Isopropylbenzene
Concen: 19.794 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 112099

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.5

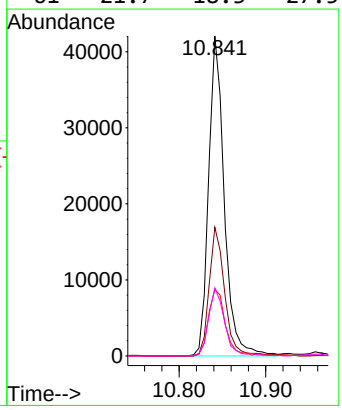


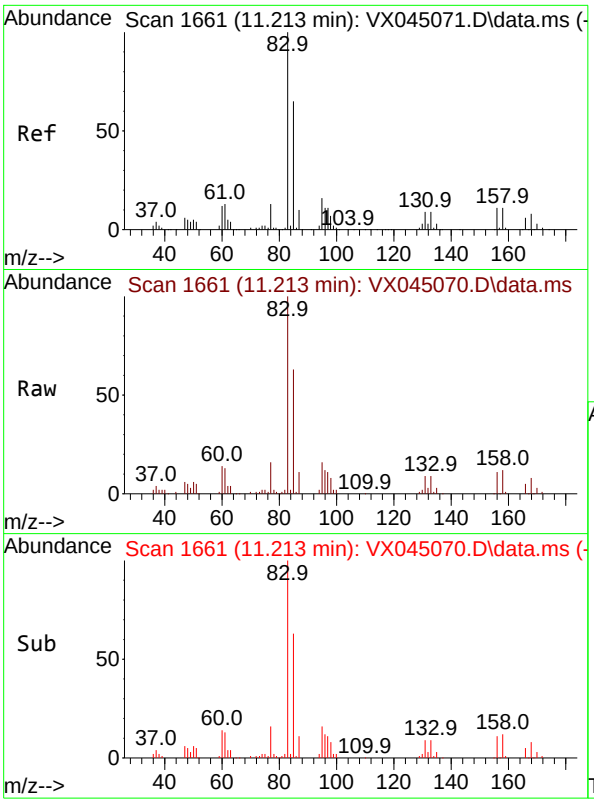


#74
N-amyl acetate
Concen: 20.606 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 52972

Ion	Ratio	Lower	Upper
43	100		
70	40.0	31.8	47.6
55	23.0	18.3	27.5
61	21.7	18.3	27.5



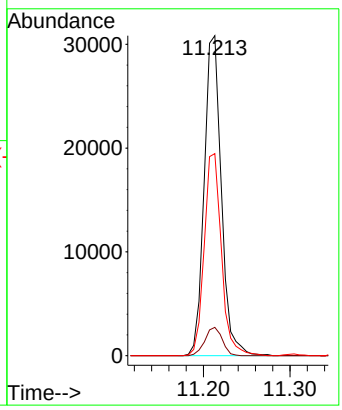


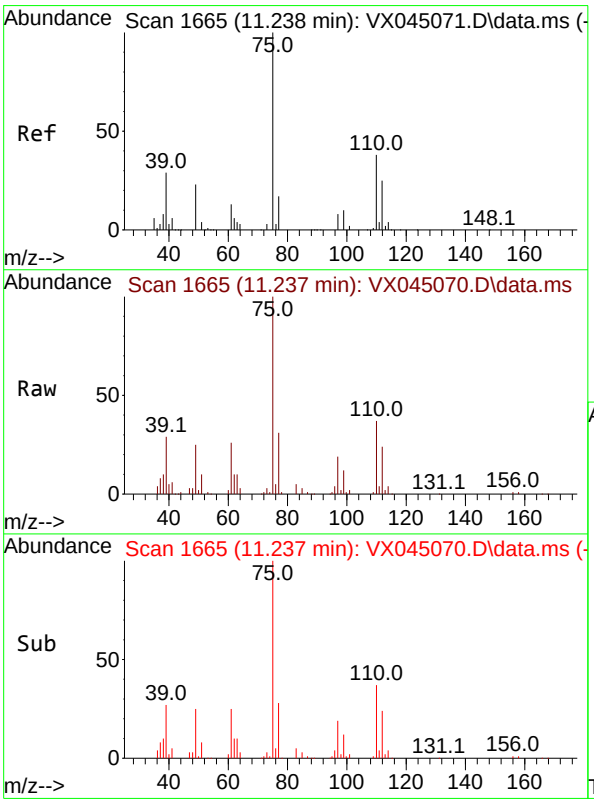
#75
1,1,2,2-Tetrachloroethane
Concen: 21.738 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 42413

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.4
85	63.4	31.7	95.1

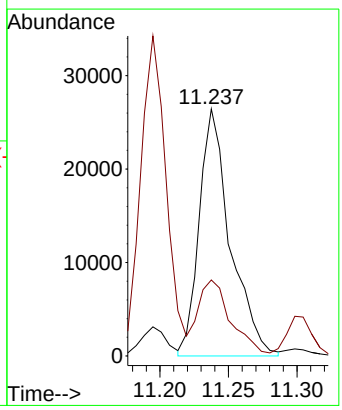


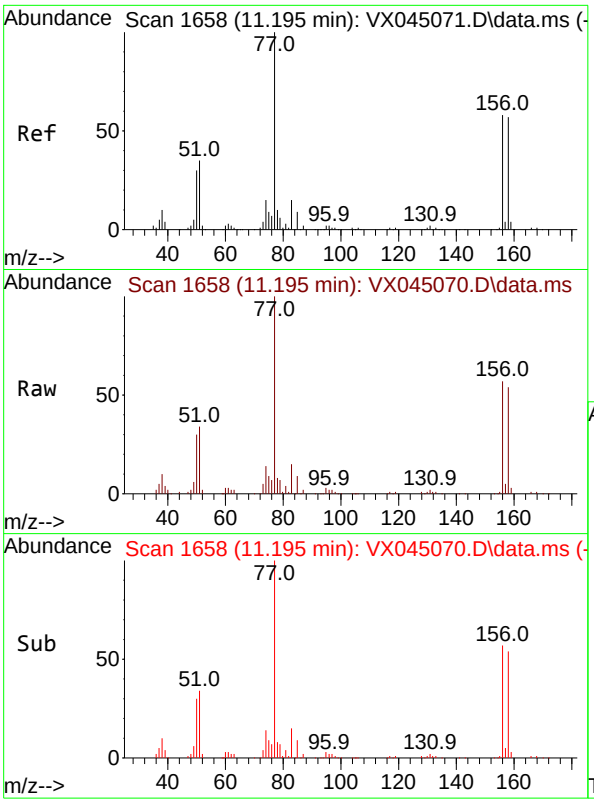


#76
1,2,3-Trichloropropane
Concen: 26.713 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 41754

Ion	Ratio	Lower	Upper
75	100		
77	32.5	20.7	62.1



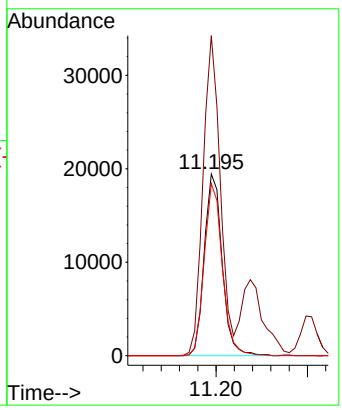


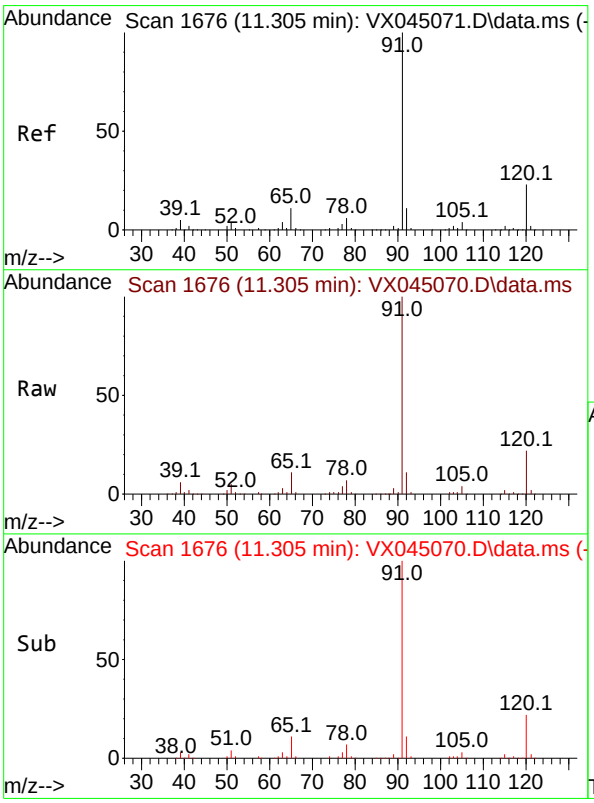
#77
Bromobenzene
Concen: 20.466 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 26310

Ion	Ratio	Lower	Upper
156	100		
77	170.2	85.8	257.4
158	95.9	48.4	145.2

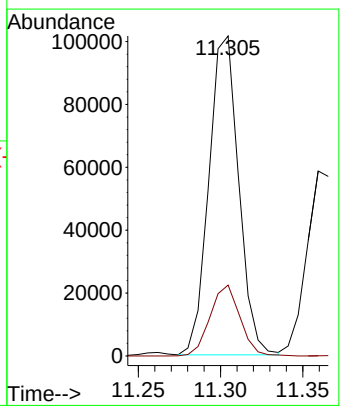


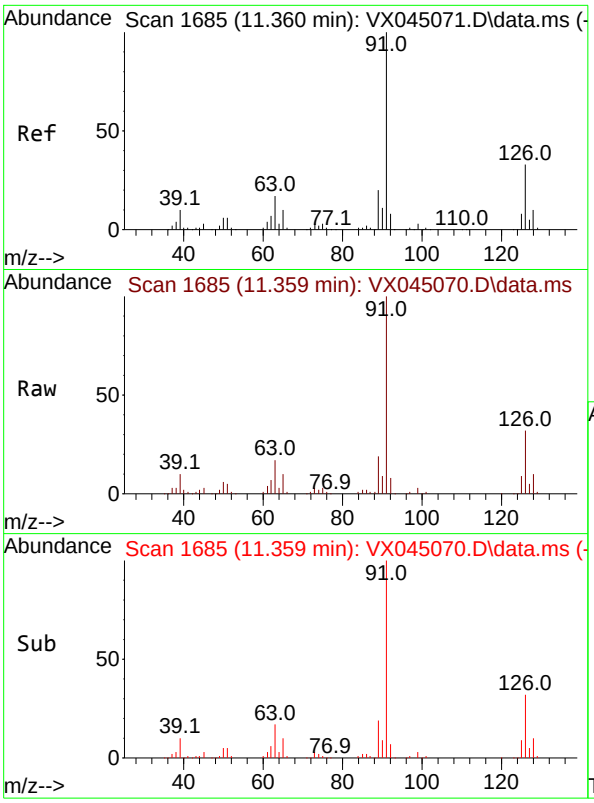


#78
n-propylbenzene
Concen: 19.641 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 128284

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.6



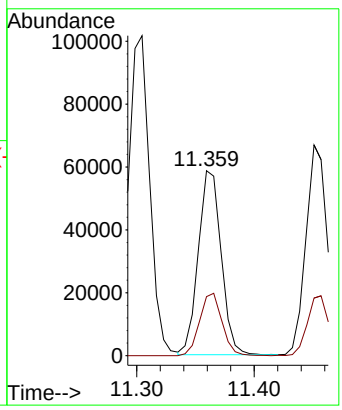


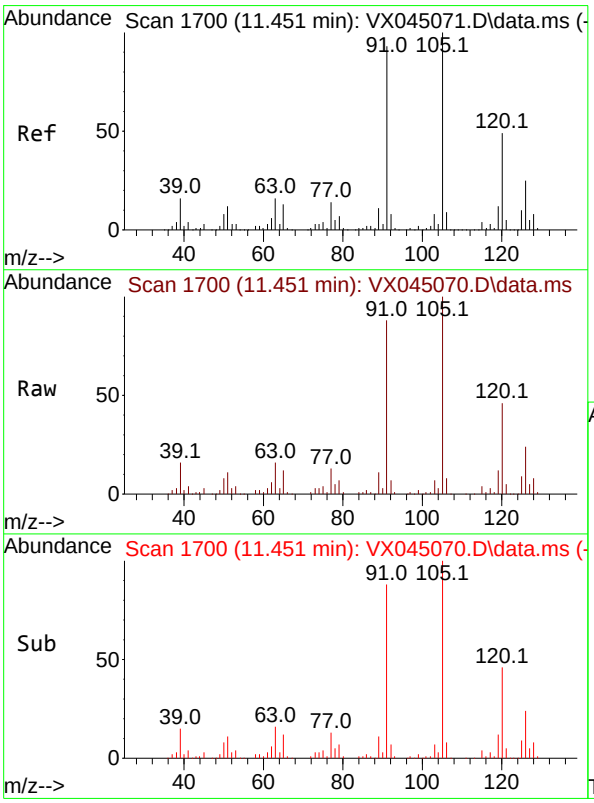
#79
2-Chlorotoluene
Concen: 19.775 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 79275

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.4	49.4

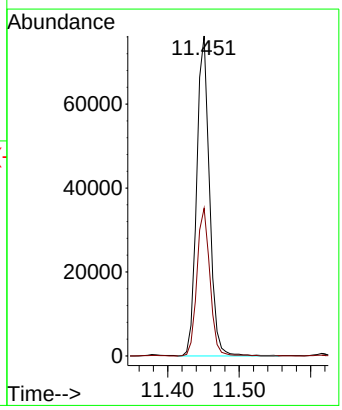


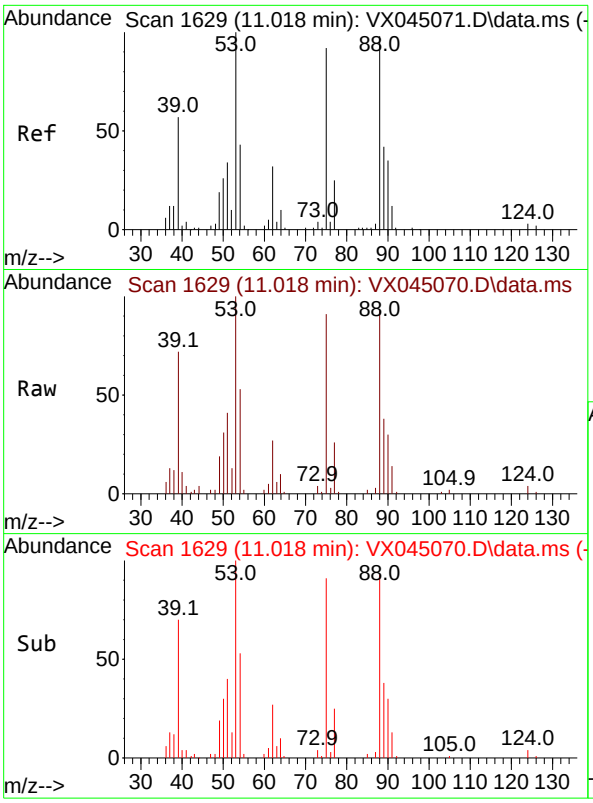


#80
1,3,5-Trimethylbenzene
Concen: 20.581 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 94545

Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.2



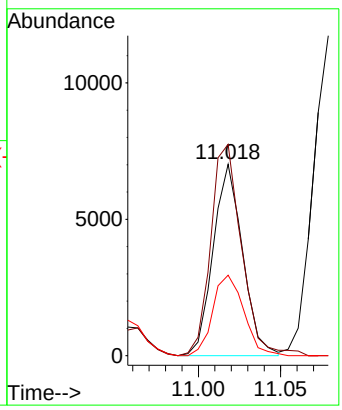


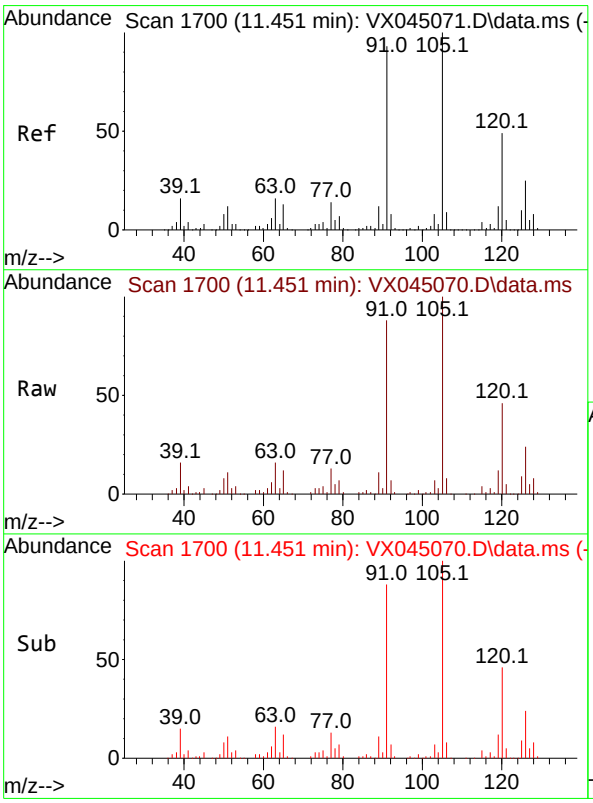
#81
trans-1,4-Dichloro-2-butene
Concen: 15.196 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 8759

Ion	Ratio	Lower	Upper
75	100		
53	115.4	88.5	132.7
89	44.3	36.2	54.4

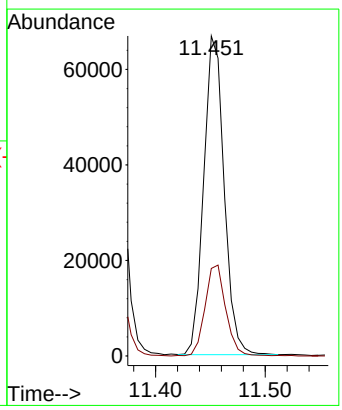


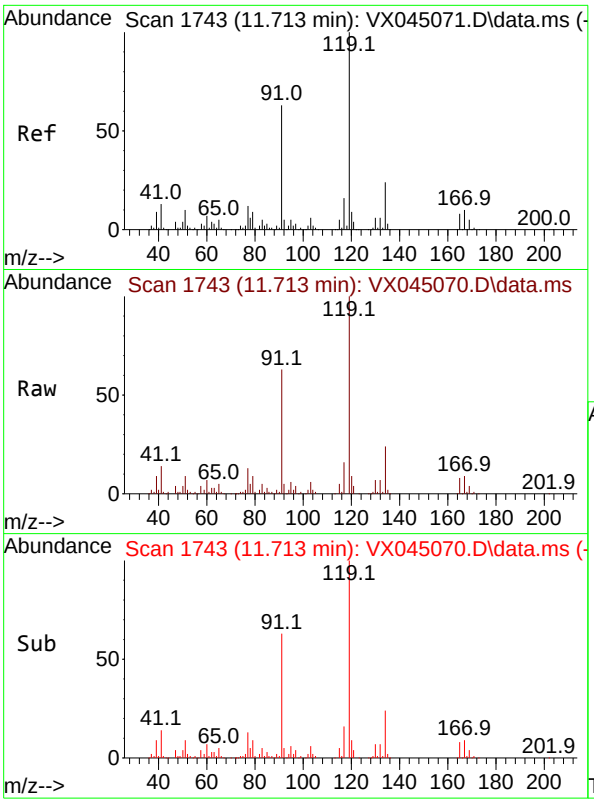


#82
4-Chlorotoluene
Concen: 19.443 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 86281

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.1	42.4



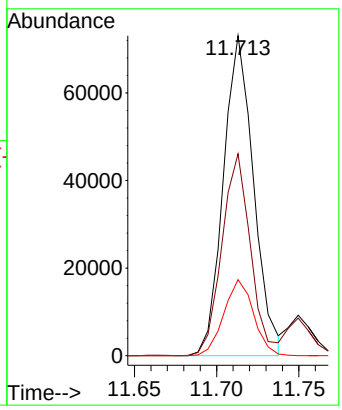


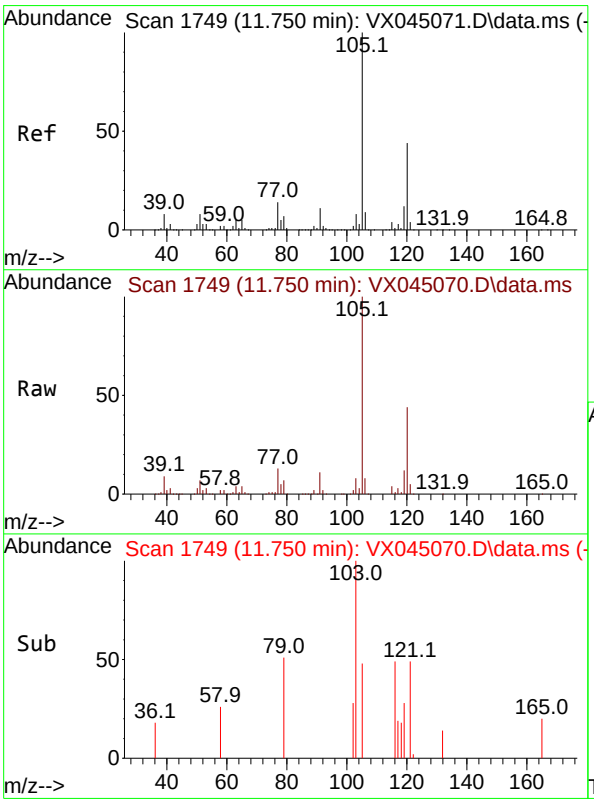
#83
tert-Butylbenzene
Concen: 20.159 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 93670

Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.7	92.1
134	23.4	11.7	35.0

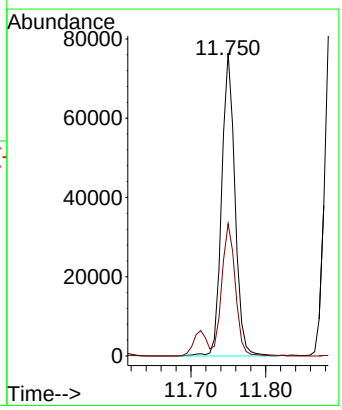


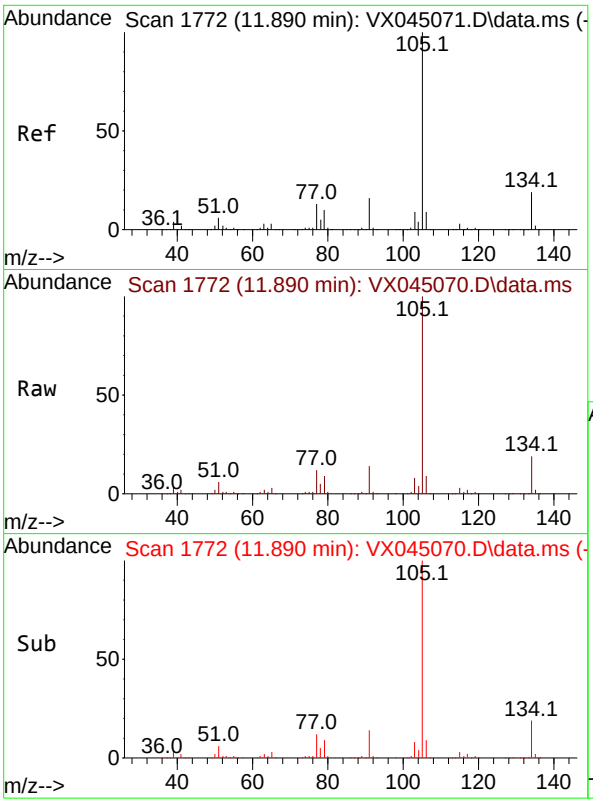


#84
1,2,4-Trimethylbenzene
Concen: 20.943 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 94734

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1



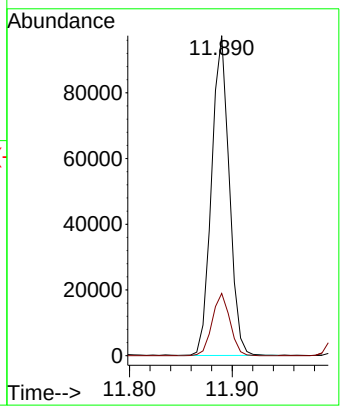


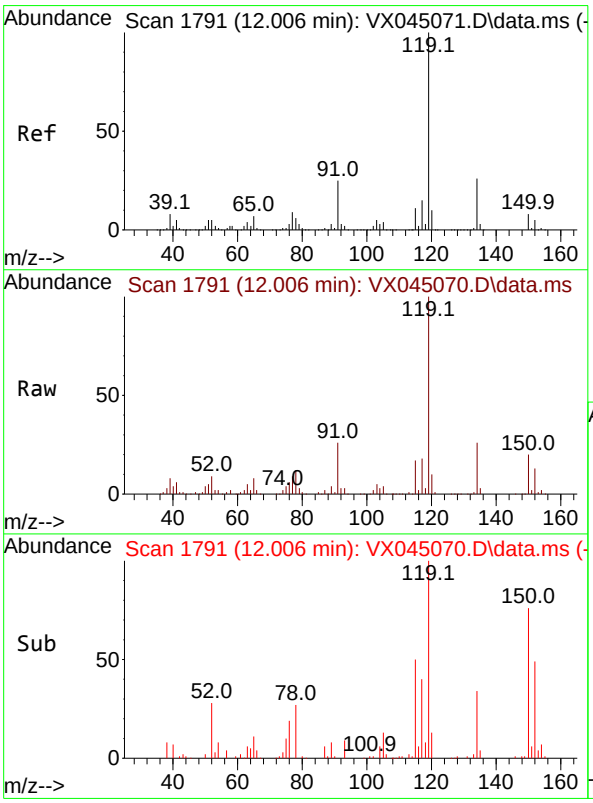
#85
sec-Butylbenzene
Concen: 20.160 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 115953

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

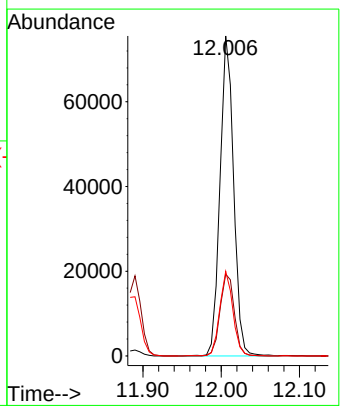


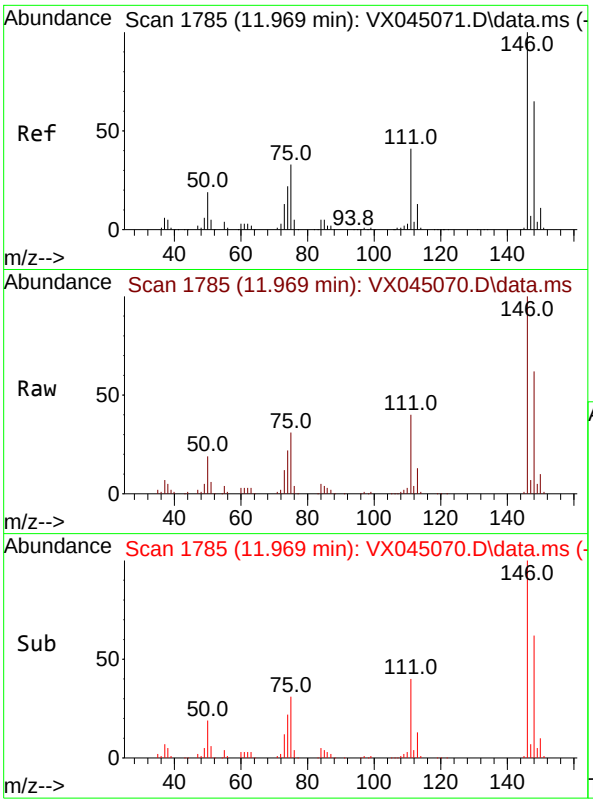


#86
p-Isopropyltoluene
Concen: 19.827 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:119 Resp: 91554

Ion	Ratio	Lower	Upper
119	100		
134	26.8	12.9	38.6
91	25.6	12.7	38.0



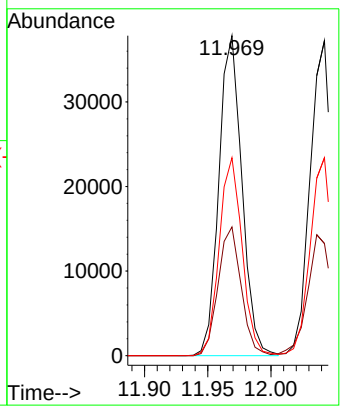


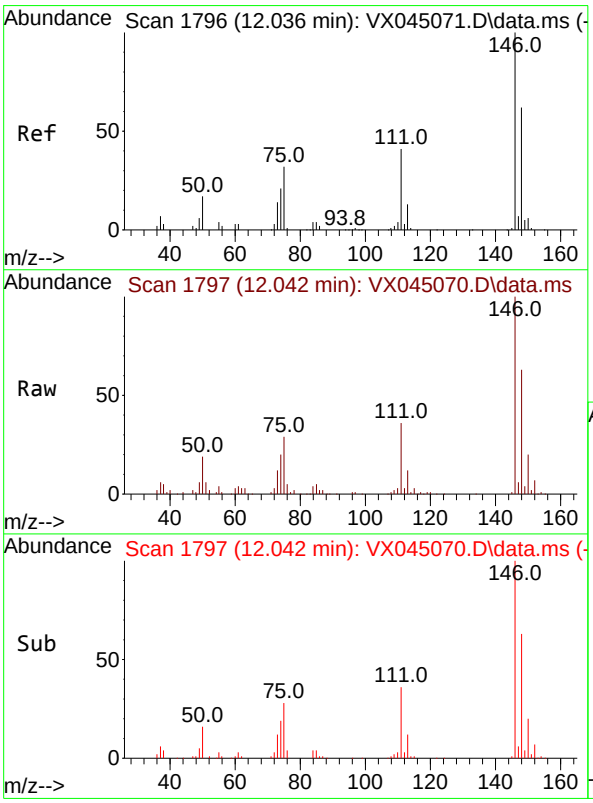
#87
1,3-Dichlorobenzene
Concen: 20.400 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 47934

Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.1	63.4
148	61.6	31.9	95.7

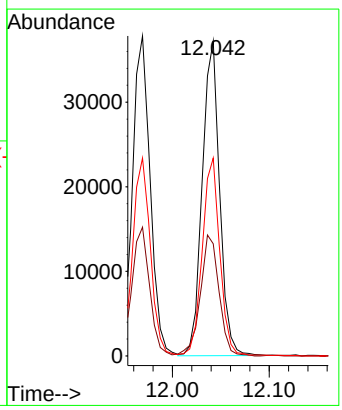


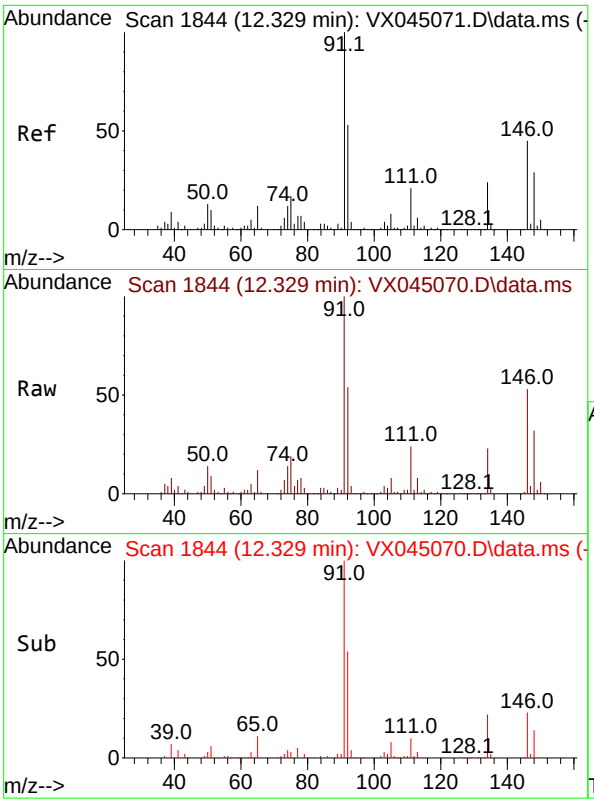


#88
1,4-Dichlorobenzene
Concen: 19.615 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:146 Resp: 46657

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.2	60.5
148	63.8	31.9	95.9



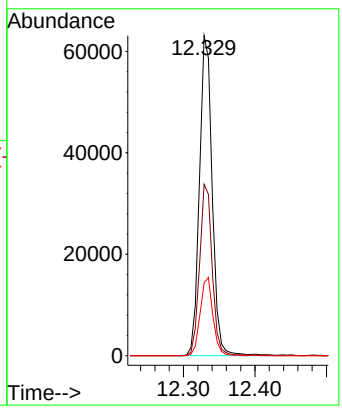


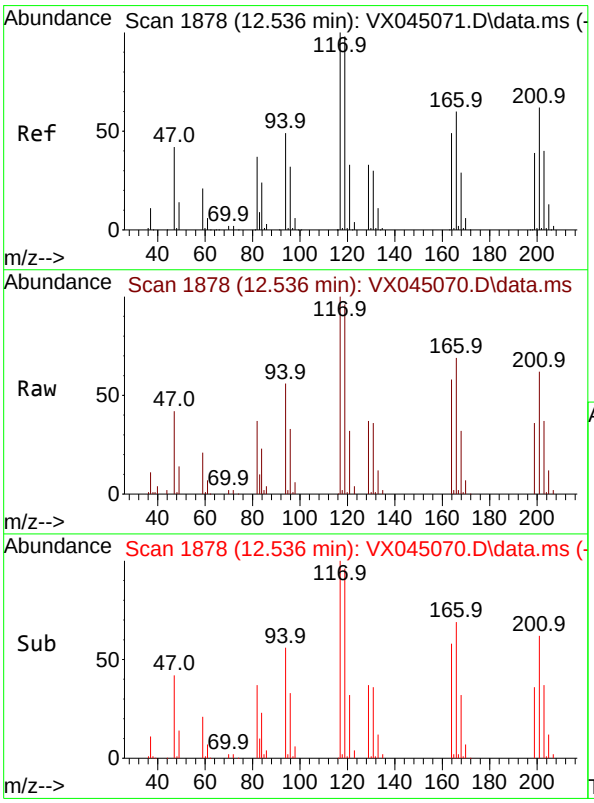
#89
n-Butylbenzene
Concen: 19.249 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 78135

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.7	80.0
134	24.3	12.2	36.6

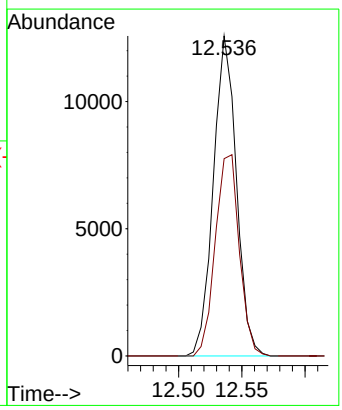


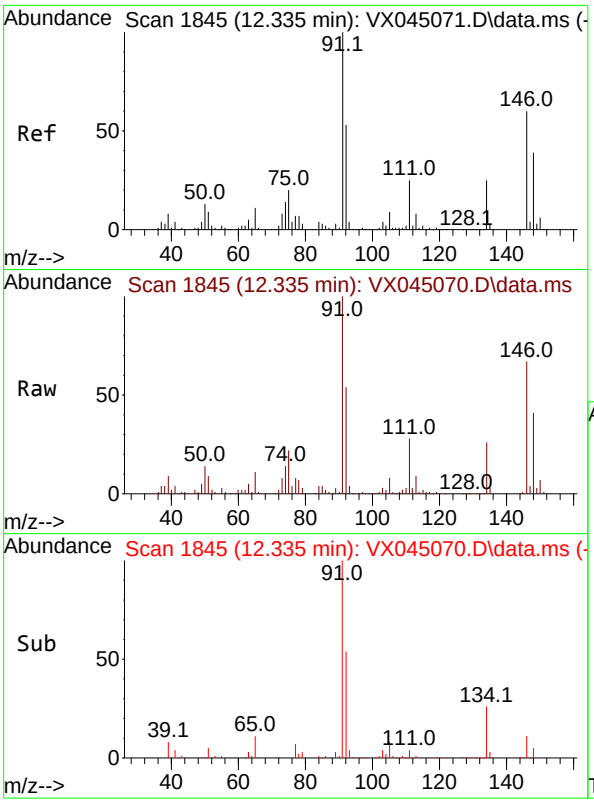


#90
Hexachloroethane
Concen: 18.483 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:117 Resp: 15919

Ion	Ratio	Lower	Upper
117	100		
201	65.6	31.9	95.9



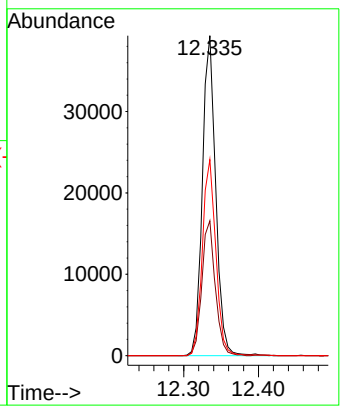


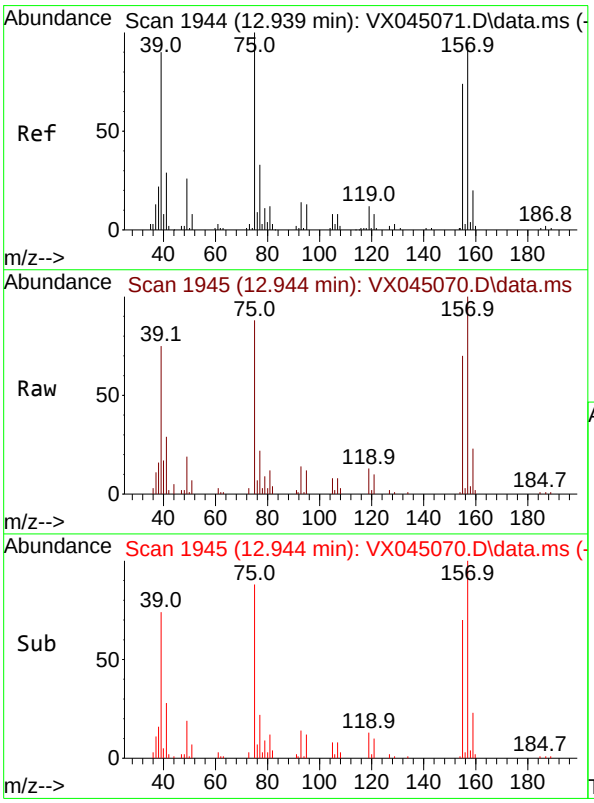
#91
1,2-Dichlorobenzene
Concen: 21.031 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 48632

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	65.0
148	62.1	31.9	95.9

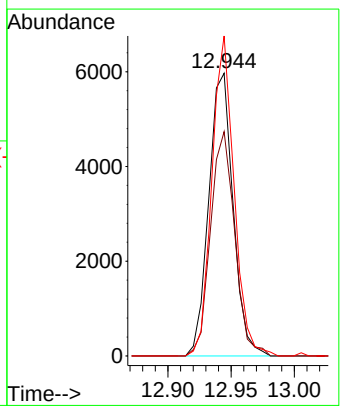


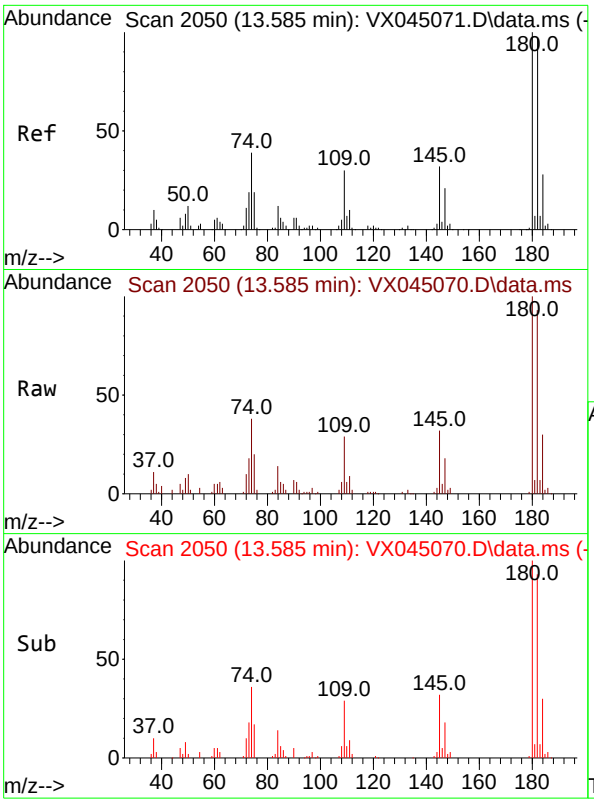


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.119 ug/l
RT: 12.944 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 7987

Ion	Ratio	Lower	Upper
75	100		
155	78.7	39.6	118.7
157	103.3	51.1	153.4



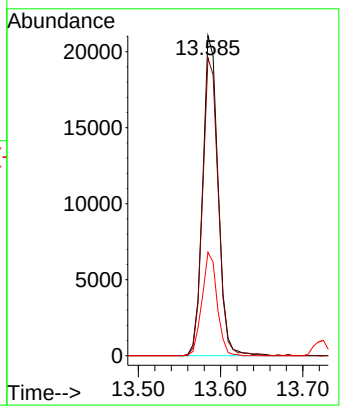


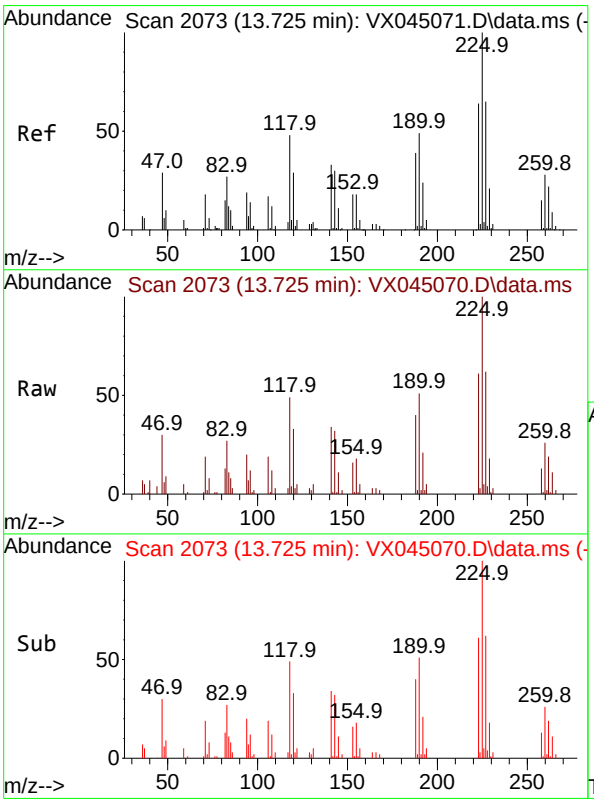
#93
1,2,4-Trichlorobenzene
Concen: 19.617 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 27424

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.3	141.9
145	31.5	16.3	48.9

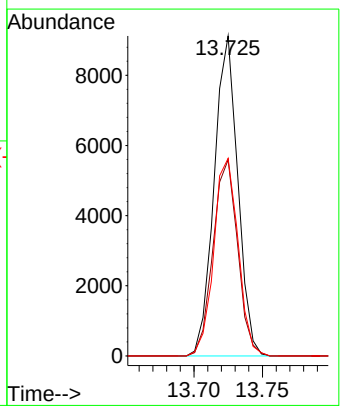


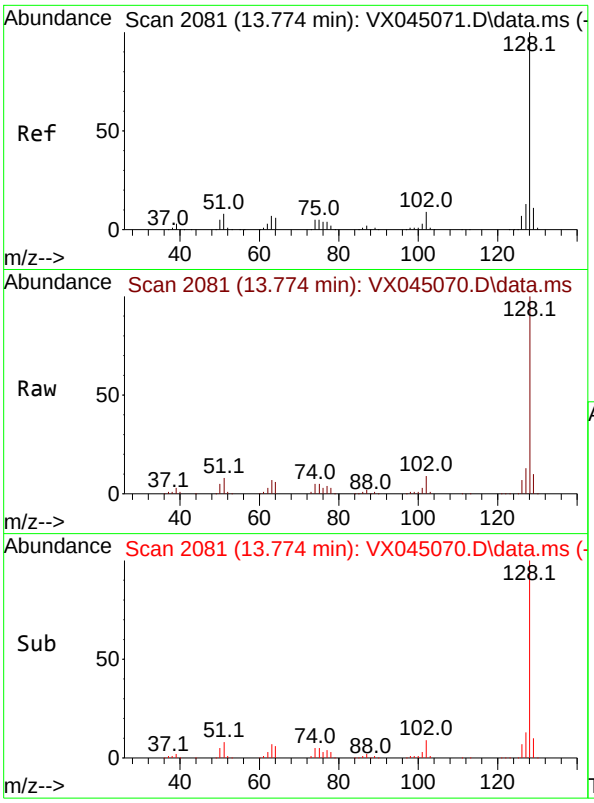


#94
Hexachlorobutadiene
Concen: 19.616 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:225 Resp: 10934

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.7
227	63.7	31.4	94.0



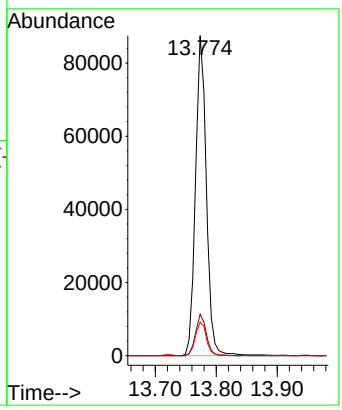


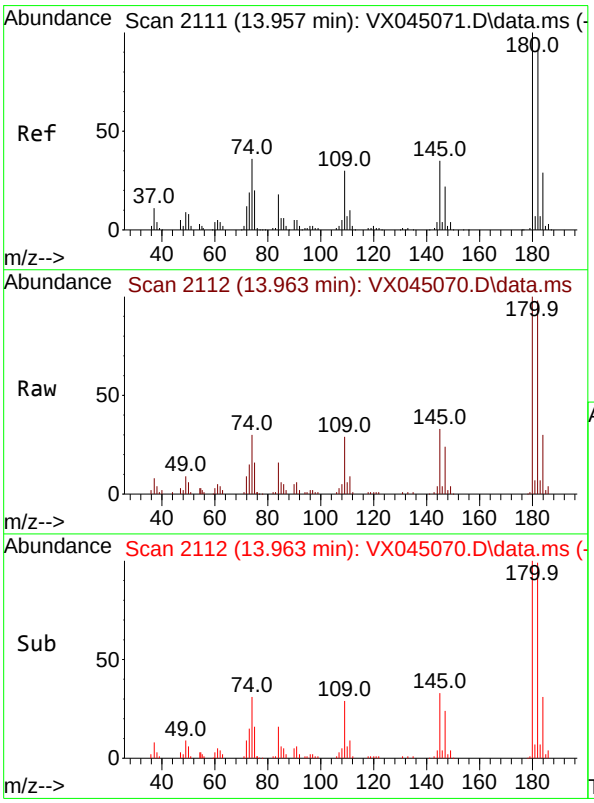
#95
Naphthalene
Concen: 21.279 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 108350

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.8	8.7	13.1

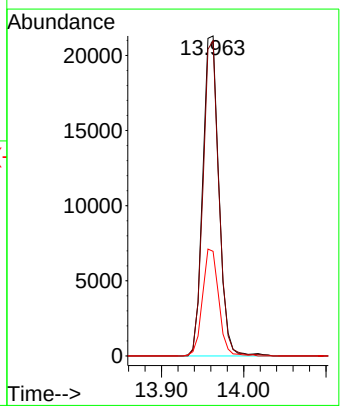




#96
1,2,3-Trichlorobenzene
Concen: 20.432 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:180 Resp: 28937

Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.5	142.6
145	33.7	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	103235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	186358	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162079	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78159	51.250	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.500%			
35) Dibromofluoromethane	5.385	113	61323	50.346	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.700%			
50) Toluene-d8	8.647	98	225493	49.449	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.900%			
62) 4-Bromofluorobenzene	11.079	95	74945	49.212	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	64743	45.502	ug/l	100
3) Chloromethane	1.307	50	77729	44.894	ug/l	100
4) Vinyl Chloride	1.374	62	78524	46.434	ug/l	100
5) Bromomethane	1.593	94	30169	57.066	ug/l	100
6) Chloroethane	1.660	64	38461	59.750	ug/l	100
7) Trichlorofluoromethane	1.868	101	108411	50.047	ug/l	100
8) Diethyl Ether	2.136	74	40001	50.814	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	61312	47.399	ug/l	100
10) Methyl Iodide	2.441	142	79357	47.854	ug/l	100
11) Tert butyl alcohol	2.983	59	69139	247.496	ug/l	100
12) 1,1-Dichloroethene	2.307	96	64327	48.434	ug/l	100
13) Acrolein	2.233	56	89603	296.189	ug/l	100
14) Allyl chloride	2.654	41	114313	47.875	ug/l	100
15) Acrylonitrile	3.062	53	211455	278.519	ug/l	100
16) Acetone	2.386	43	181429	289.130	ug/l	100
17) Carbon Disulfide	2.502	76	171353	47.419	ug/l	100
18) Methyl Acetate	2.703	43	89508	47.359	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	215043	50.642	ug/l	100
20) Methylene Chloride	2.782	84	72081	48.500	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	65093	49.832	ug/l	100
22) Diisopropyl ether	3.764	45	236563	51.816	ug/l	100
23) Vinyl Acetate	3.721	43	1018631	271.773	ug/l	100
24) 1,1-Dichloroethane	3.605	63	128235	50.270	ug/l	100
25) 2-Butanone	4.562	43	298785	295.330	ug/l	100
26) 2,2-Dichloropropane	4.471	77	61631	32.498	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	78657	49.955	ug/l	100
28) Bromochloromethane	4.898	49	62299	50.643	ug/l	100
29) Tetrahydrofuran	5.007	42	192607	287.345	ug/l	100
30) Chloroform	5.087	83	128581	51.532	ug/l	100
31) Cyclohexane	5.464	56	114333	48.836	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	105671	50.306	ug/l	100
36) 1,1-Dichloropropene	5.690	75	87338	49.861	ug/l	100
37) Ethyl Acetate	4.715	43	112892	56.641	ug/l	100
38) Carbon Tetrachloride	5.672	117	87123	50.593	ug/l	100
39) Methylcyclohexane	7.373	83	108974	48.715	ug/l	100
40) Benzene	6.031	78	278802	50.925	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	63454	59.598	ug/l		100
42) 1,2-Dichloroethane	6.080	62	98340	55.428	ug/l		100
43) Isopropyl Acetate	6.342	43	173045	54.544	ug/l		100
44) Trichloroethene	7.123	130	63513	50.756	ug/l		100
45) 1,2-Dichloropropane	7.428	63	69128	50.808	ug/l		100
46) Dibromomethane	7.580	93	50143	52.757	ug/l		100
47) Bromodichloromethane	7.818	83	97729	53.153	ug/l		100
48) Methyl methacrylate	7.690	41	86231	57.256	ug/l		100
49) 1,4-Dioxane	7.659	88	35053	1095.003	ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	568737	292.570	ug/l		100
52) Toluene	8.714	92	167431	51.505	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	87373	48.078	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	99713	49.079	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	66379	52.724	ug/l		100
56) Ethyl methacrylate	9.116	69	106157	52.724	ug/l		100
57) 1,3-Dichloropropane	9.305	76	115488	52.594	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	264555	267.612	ug/l		100
59) 2-Hexanone	9.427	43	416984	297.362	ug/l		100
60) Dibromochloromethane	9.519	129	71569	53.284	ug/l		100
61) 1,2-Dibromoethane	9.604	107	66312	52.217	ug/l		100
64) Tetrachloroethene	9.269	164	52531	51.021	ug/l		100
65) Chlorobenzene	10.079	112	176922	50.853	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	57642	51.402	ug/l		100
67) Ethyl Benzene	10.189	91	316427	51.431	ug/l		100
68) m/p-Xylenes	10.299	106	234554	103.515	ug/l		100
69) o-Xylene	10.640	106	114440	50.341	ug/l		100
70) Styrene	10.653	104	191406	52.387	ug/l		100
71) Bromoform	10.799	173	44730	53.645	ug/l	#	100
73) Isopropylbenzene	10.963	105	294694	51.167	ug/l		100
74) N-amyl acetate	10.842	43	140869	53.881	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	101089	50.945	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	103161	64.894	ug/l		86
77) Bromobenzene	11.195	156	66904	51.173	ug/l		100
78) n-propylbenzene	11.305	91	342399	51.546	ug/l		100
79) 2-Chlorotoluene	11.360	91	204484	50.154	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	241129	51.613	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	24135	41.172	ug/l		100
82) 4-Chlorotoluene	11.451	91	230493	51.072	ug/l		100
83) tert-Butylbenzene	11.713	119	240510	50.895	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	240719	52.326	ug/l		100
85) sec-Butylbenzene	11.890	105	300393	51.353	ug/l		100
86) p-Isopropyltoluene	12.006	119	244031	51.964	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	118879	49.747	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	120217	49.694	ug/l		100
89) n-Butylbenzene	12.329	91	214685	52.006	ug/l		100
90) Hexachloroethane	12.536	117	43086	49.188	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	118896	50.557	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20610	56.123	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	71897	50.571	ug/l		100
94) Hexachlorobutadiene	13.725	225	27916	49.245	ug/l		100
95) Naphthalene	13.774	128	278086	53.700	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	75482	52.406	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

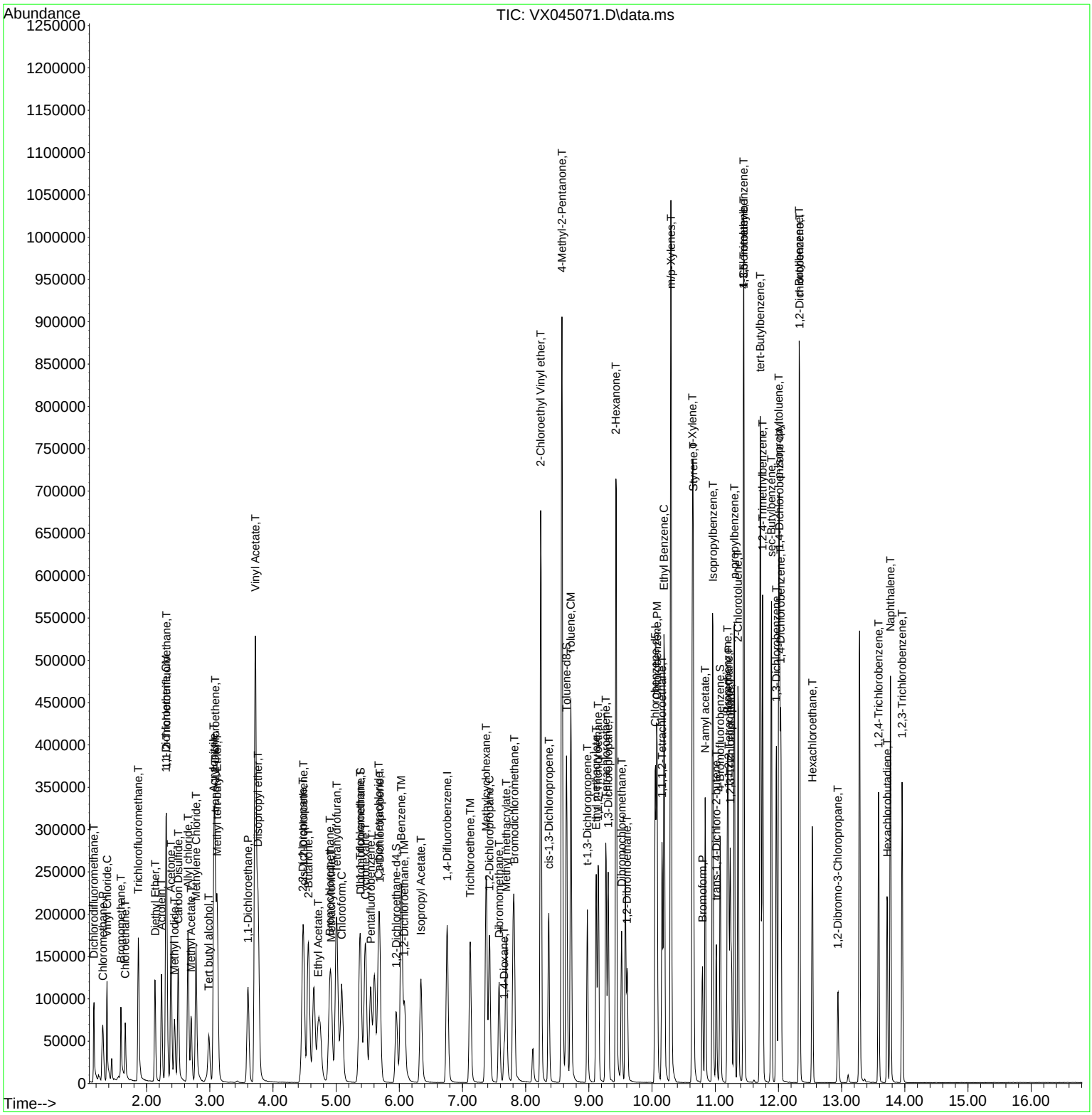
(#) = qualifier out of range (m) = manual integration (+) = signals summed

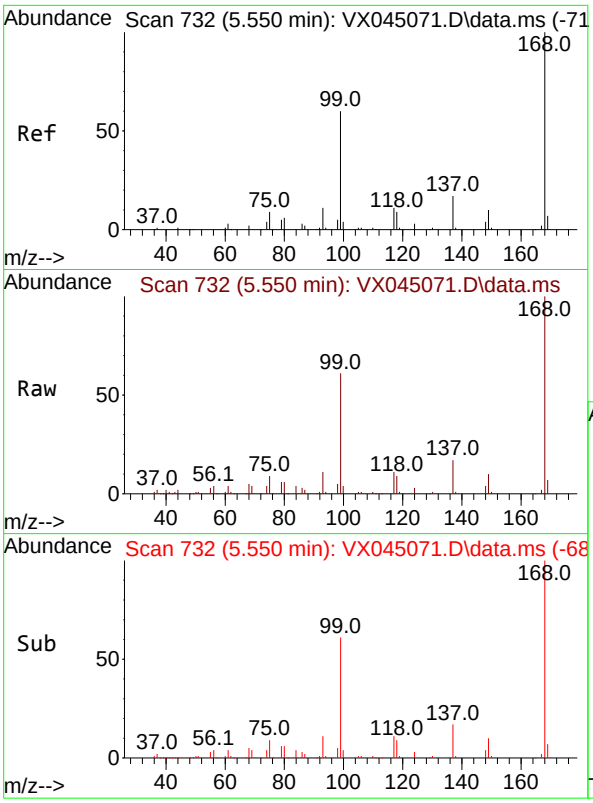
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration



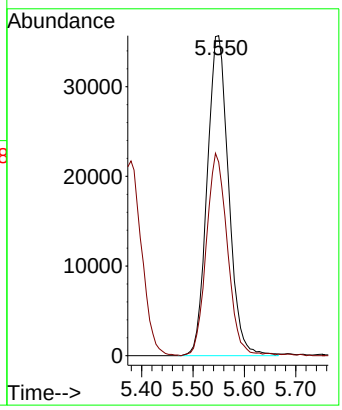


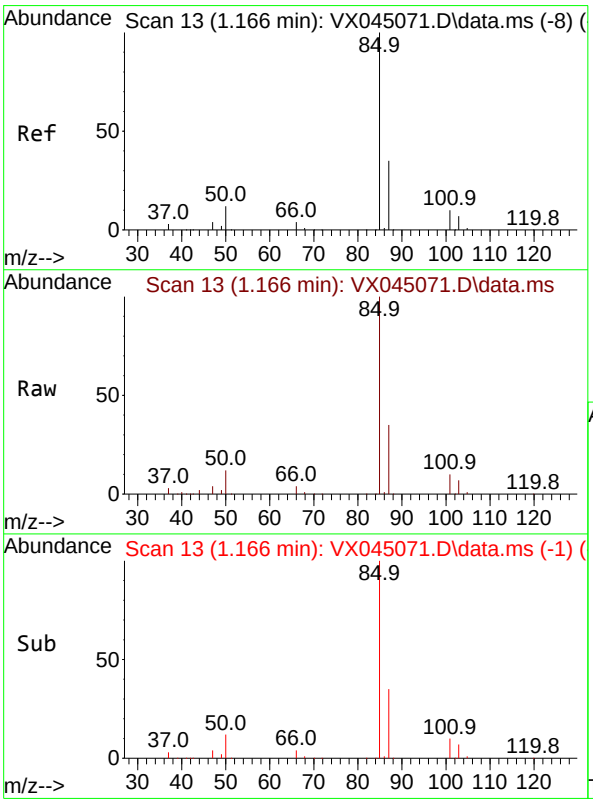
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 103235

Ion	Ratio	Lower	Upper
168	100		
99	60.3	48.2	72.4

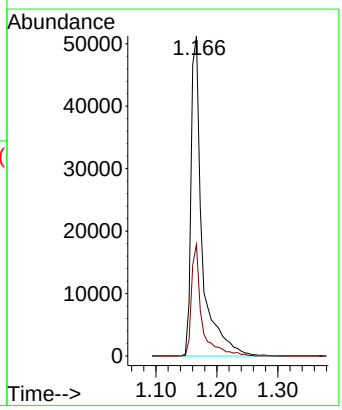


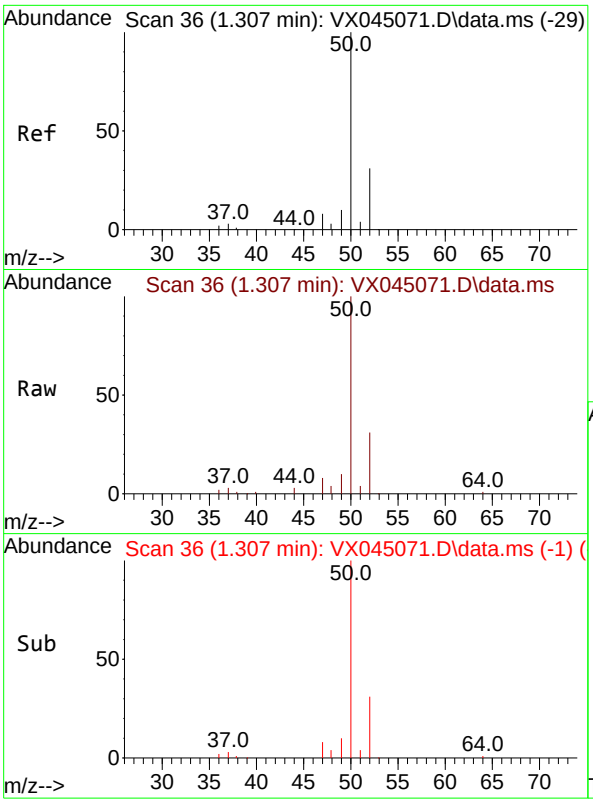


#2
Dichlorodifluoromethane
Concen: 45.502 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 85 Resp: 64743

Ion	Ratio	Lower	Upper
85	100		
87	34.9	17.4	52.3



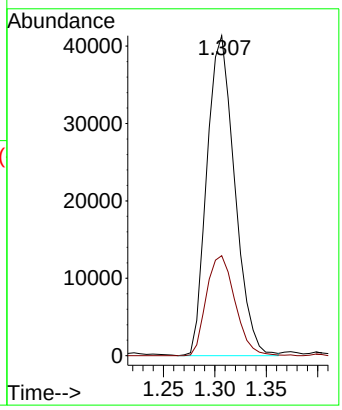


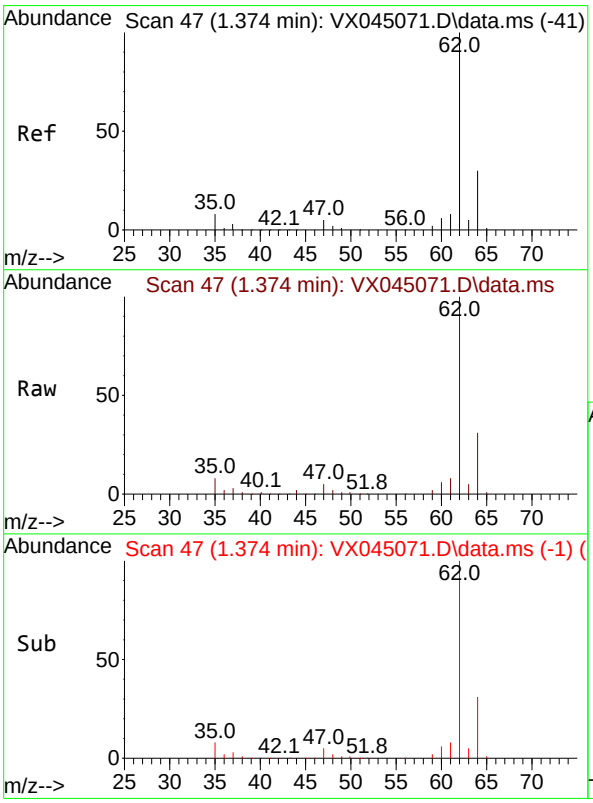
#3
Chloromethane
Concen: 44.894 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 77729

Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.0	37.4

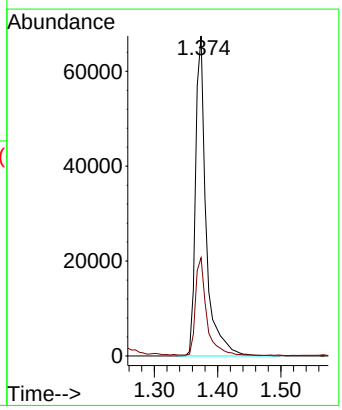


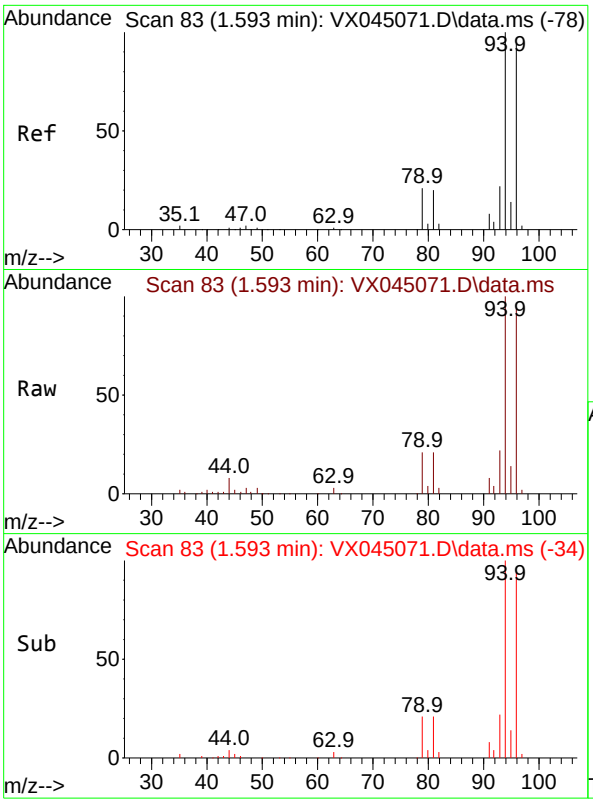


#4
Vinyl Chloride
Concen: 46.434 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 78524

Ion	Ratio	Lower	Upper
62	100		
64	30.4	24.3	36.5



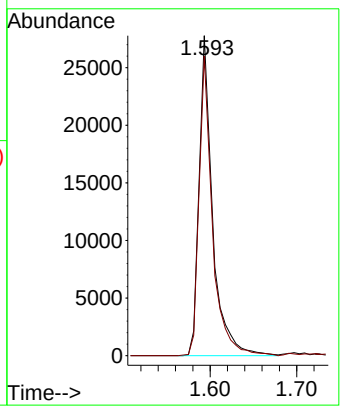


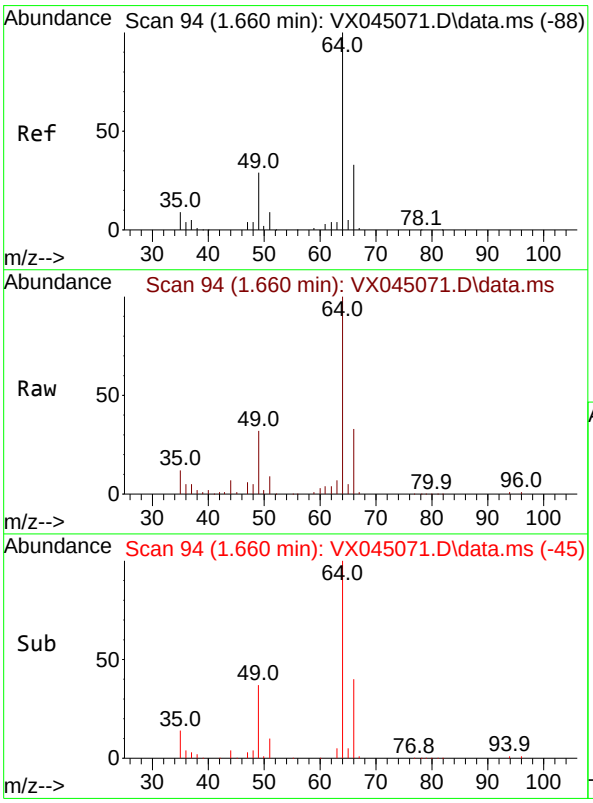
#5
Bromomethane
Concen: 57.066 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 30169

Ion	Ratio	Lower	Upper
94	100		
96	93.7	75.0	112.4

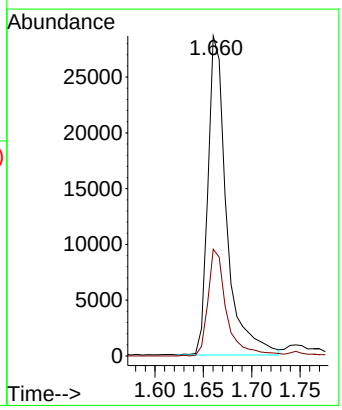


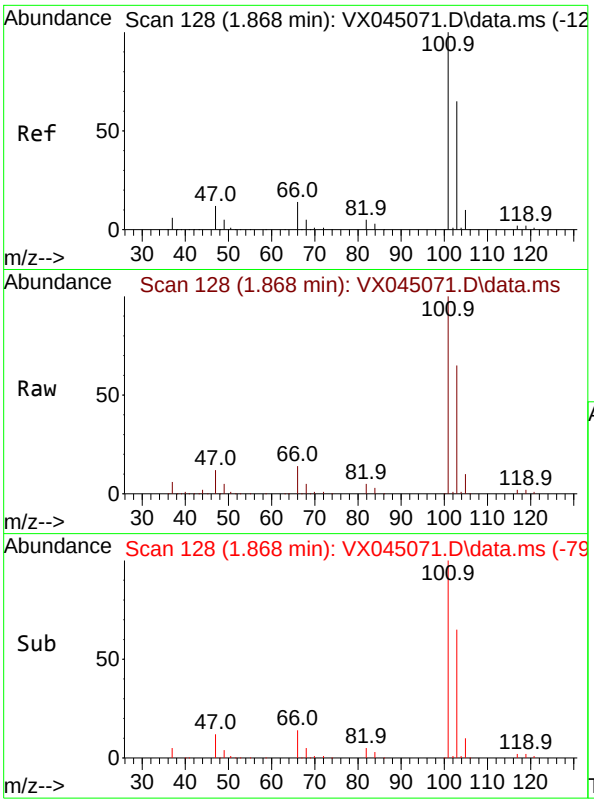


#6
Chloroethane
Concen: 59.750 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 64 Resp: 38461

Ion	Ratio	Lower	Upper
64	100		
66	33.4	26.7	40.1



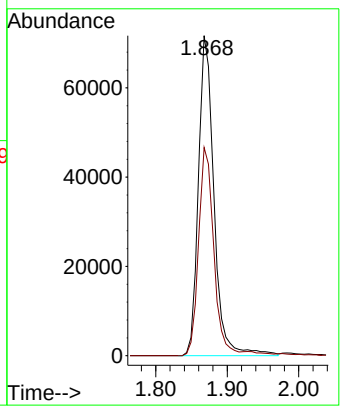


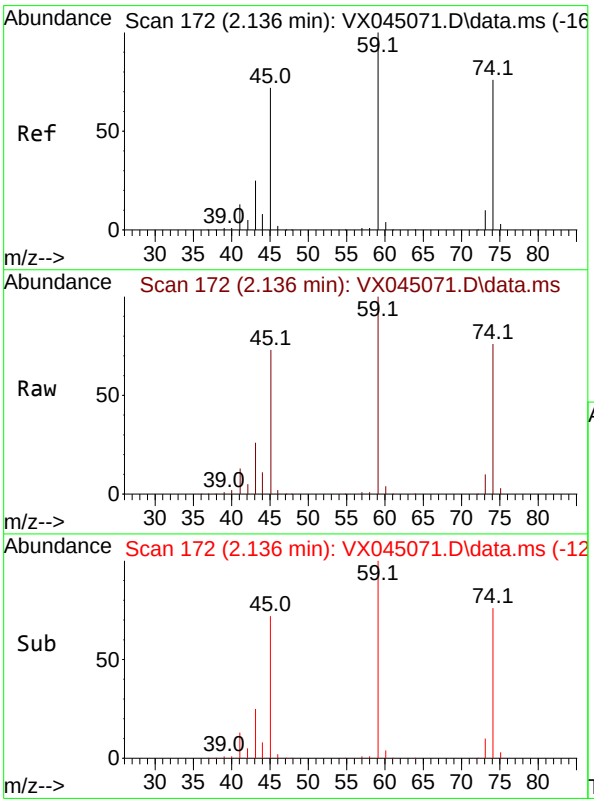
#7
Trichlorofluoromethane
Concen: 50.047 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 108411

Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.1	78.1

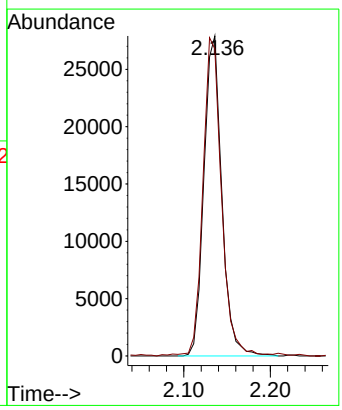


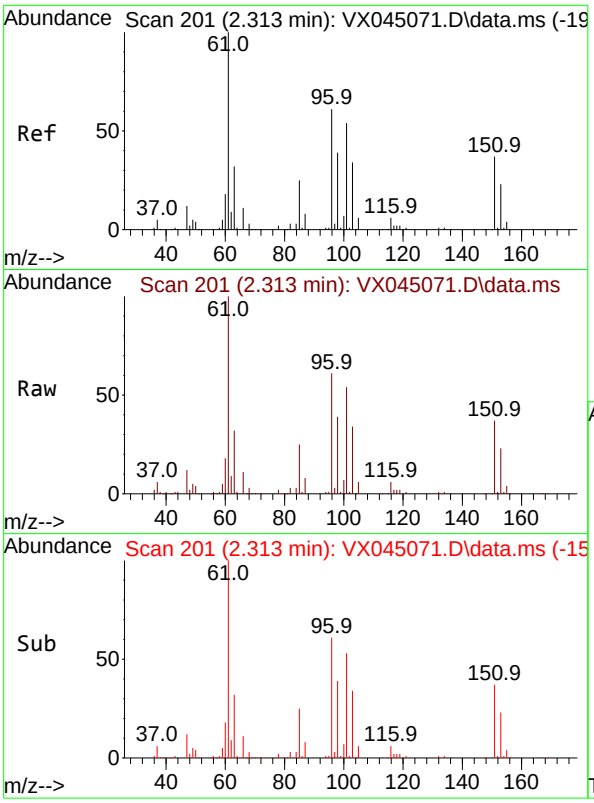


#8
Diethyl Ether
Concen: 50.814 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 74 Resp: 40001

Ion	Ratio	Lower	Upper
74	100		
45	103.0	51.5	154.5



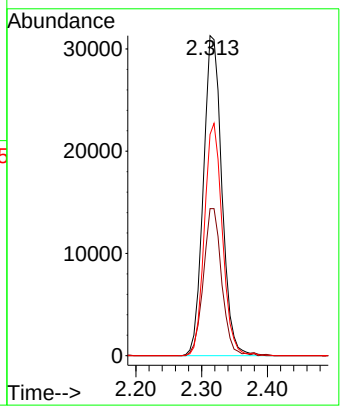


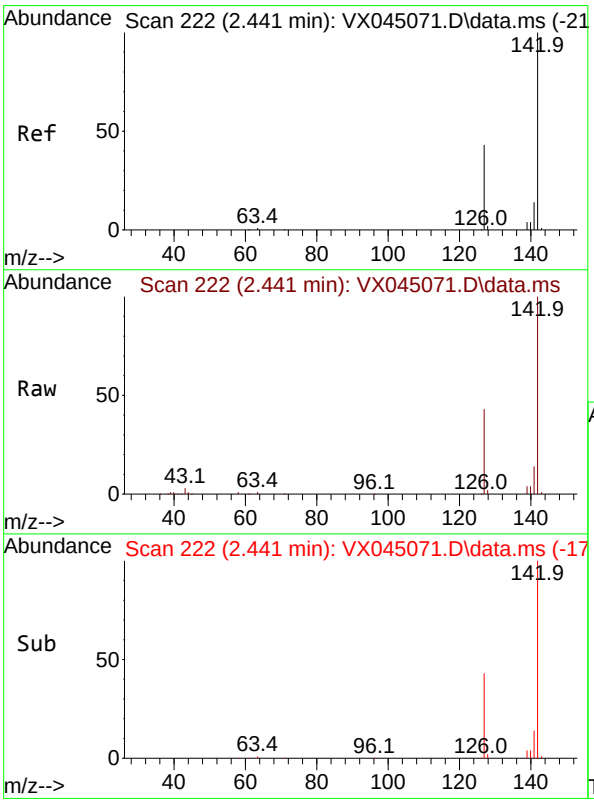
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.399 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 61312

Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	70.5	56.4	84.6

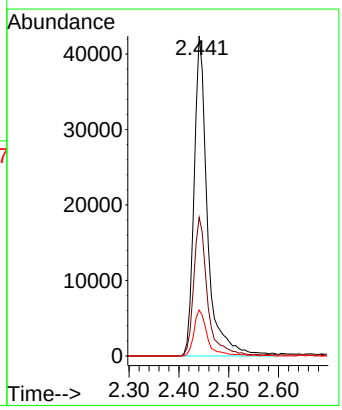


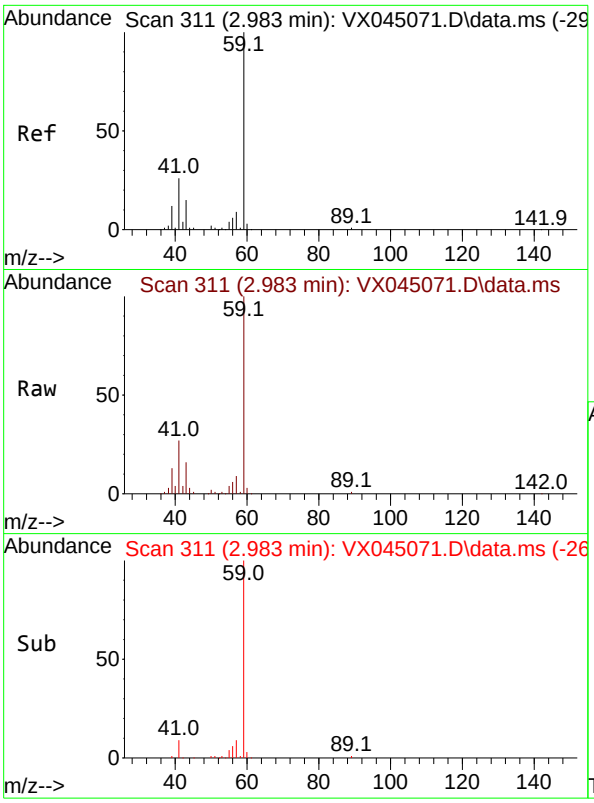


#10
Methyl Iodide
Concen: 47.854 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:142 Resp: 79357

Ion	Ratio	Lower	Upper
142	100		
127	44.3	35.4	53.2
141	14.5	11.6	17.4



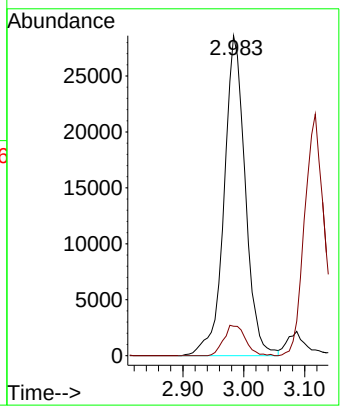


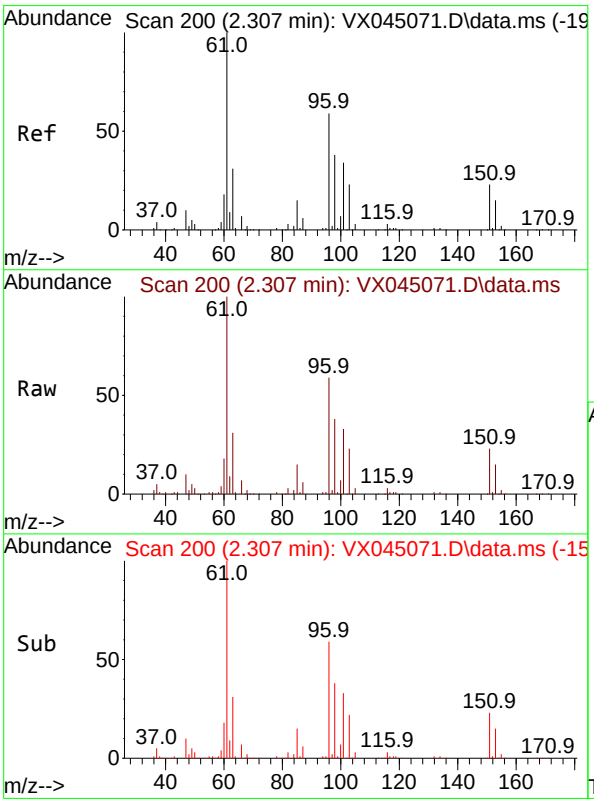
#11
Tert butyl alcohol
Concen: 247.496 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 69139

Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.8	11.8

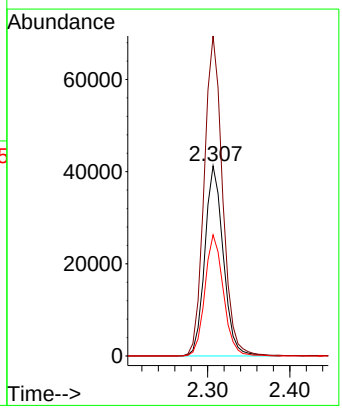


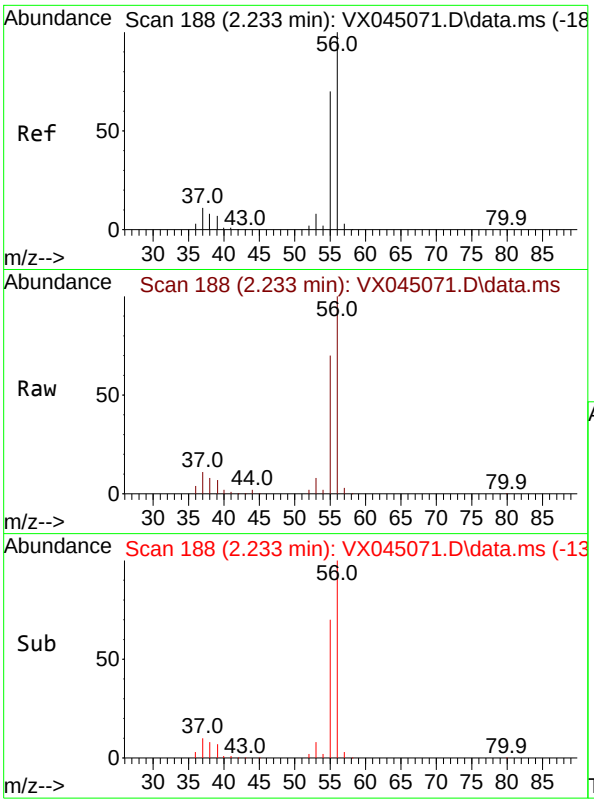


#12
1,1-Dichloroethene
Concen: 48.434 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 96 Resp: 64327

Ion	Ratio	Lower	Upper
96	100		
61	168.3	134.6	202.0
98	63.8	51.0	76.6



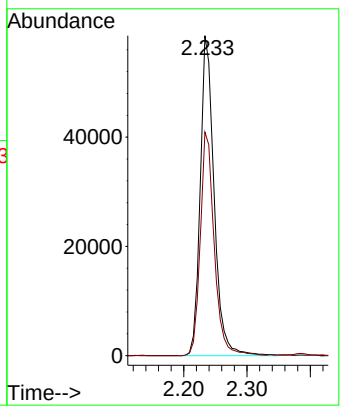


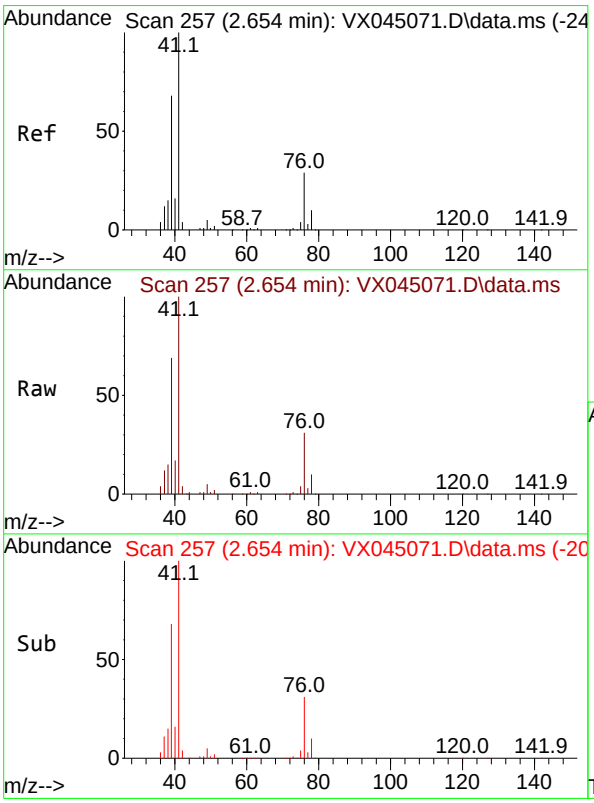
#13
Acrolein
Concen: 296.189 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 89603

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4

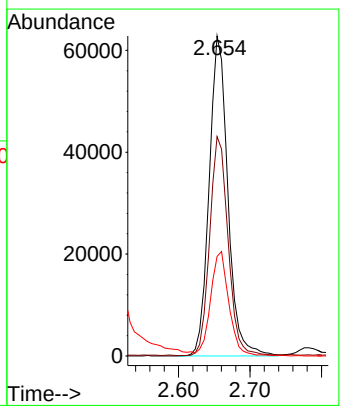


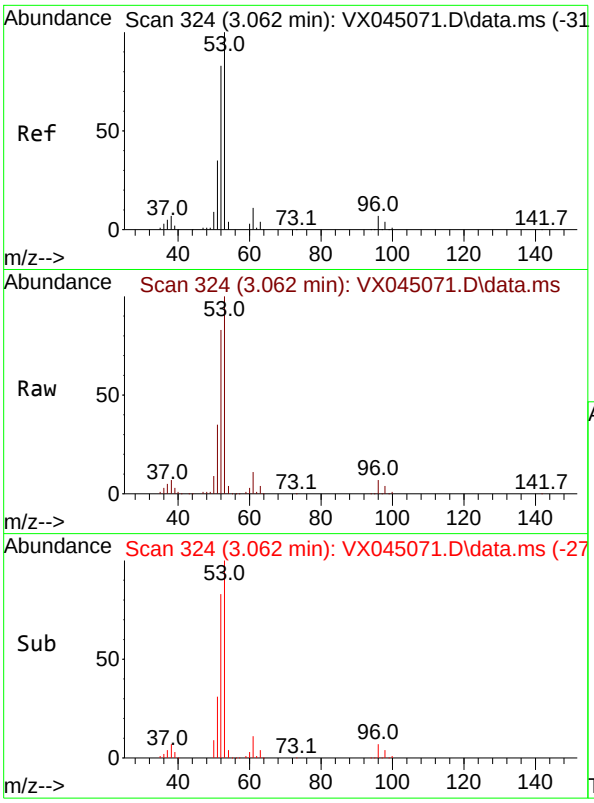


#14
Allyl chloride
Concen: 47.875 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 114313

Ion	Ratio	Lower	Upper
41	100		
39	67.3	53.8	80.8
76	31.5	25.2	37.8



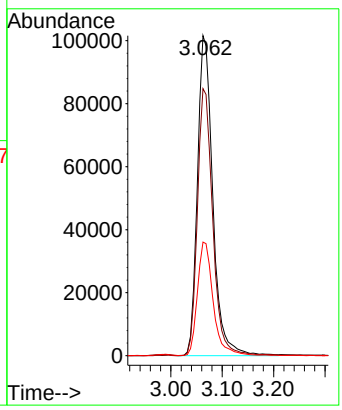


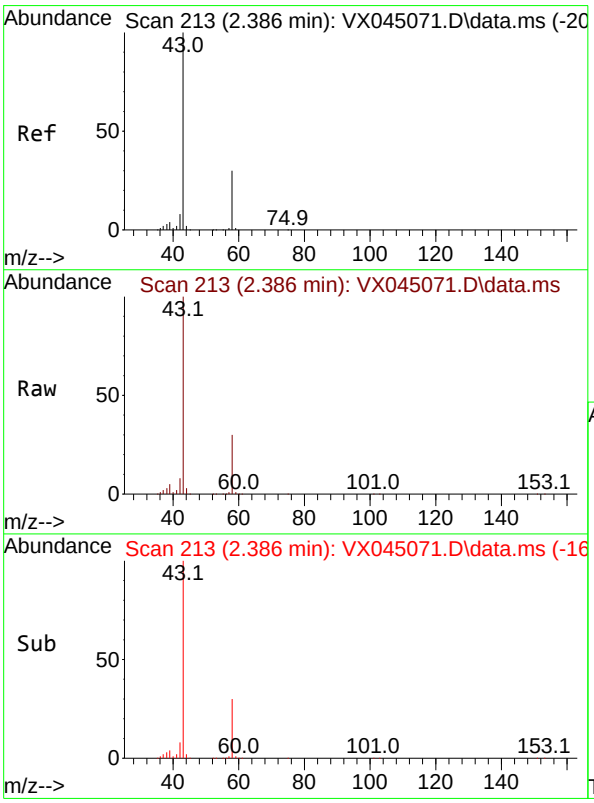
#15
Acrylonitrile
Concen: 278.519 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 211455

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.2	99.2
51	36.2	29.0	43.4

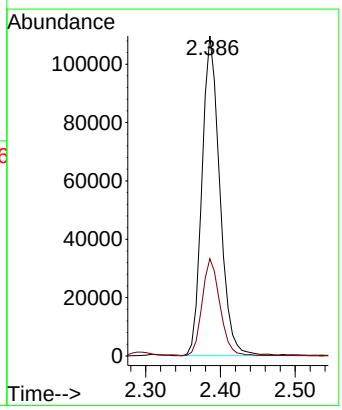


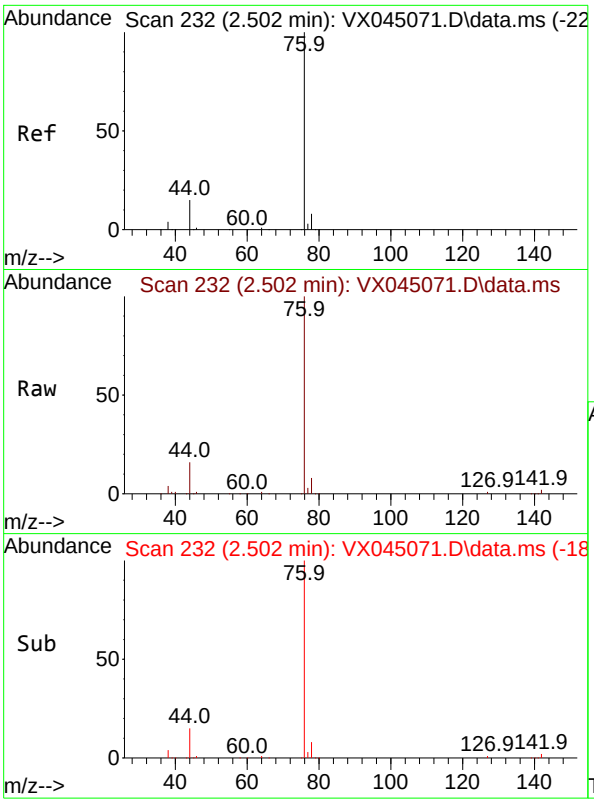


#16
Acetone
Concen: 289.130 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 181429

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4



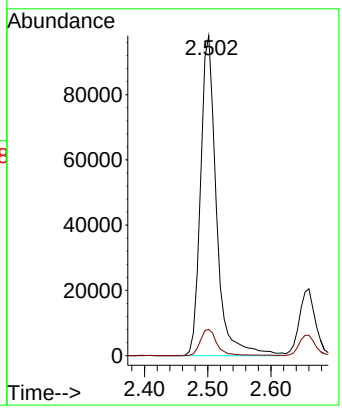


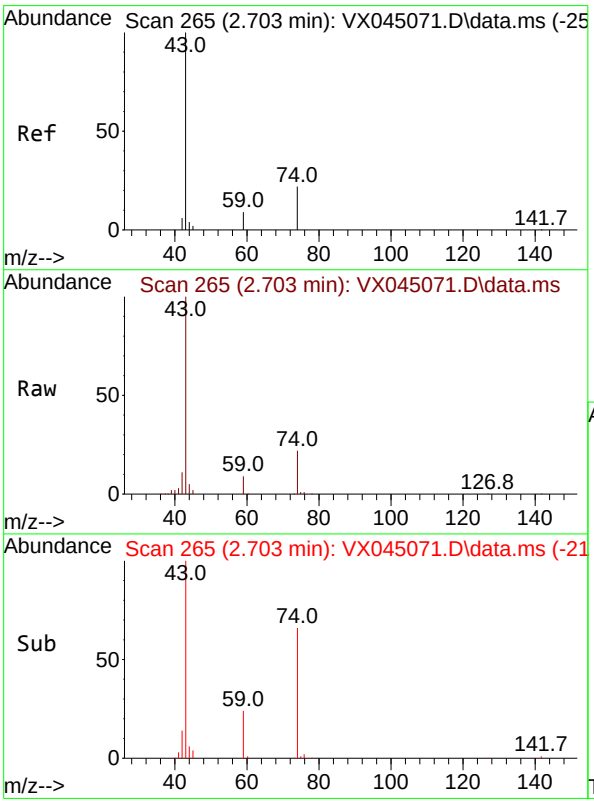
#17
Carbon Disulfide
Concen: 47.419 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 171353

Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.6	9.8

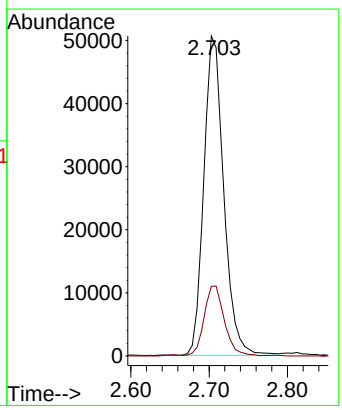


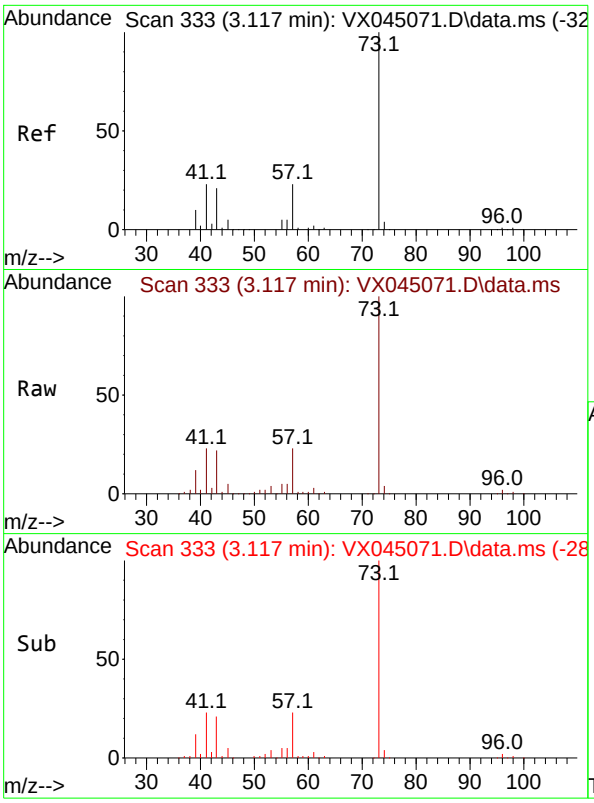


#18
Methyl Acetate
Concen: 47.359 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 89508

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



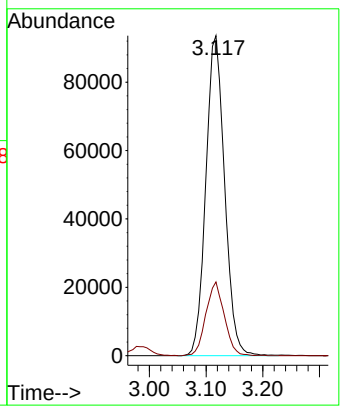


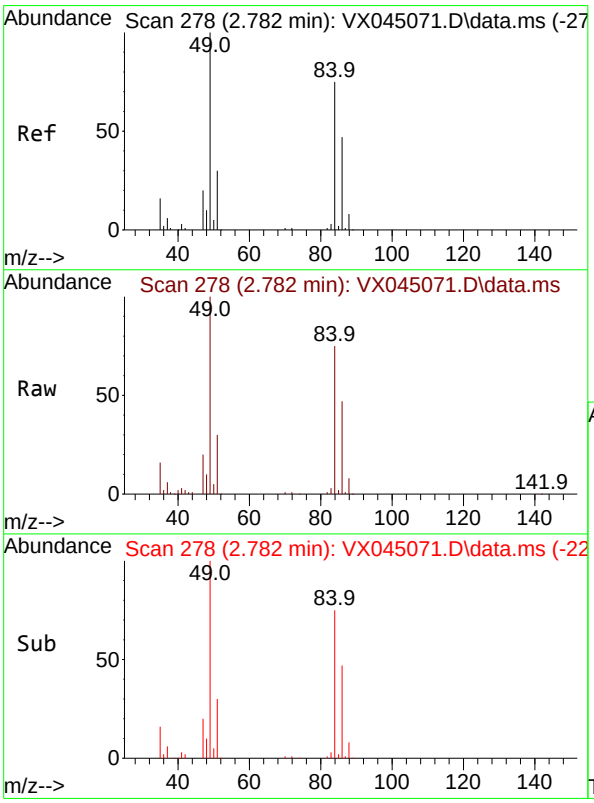
#19
Methyl tert-butyl Ether
Concen: 50.642 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 215043

Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.5	27.7

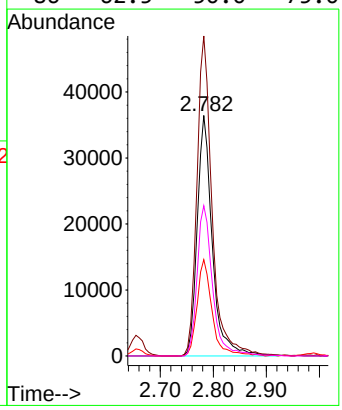


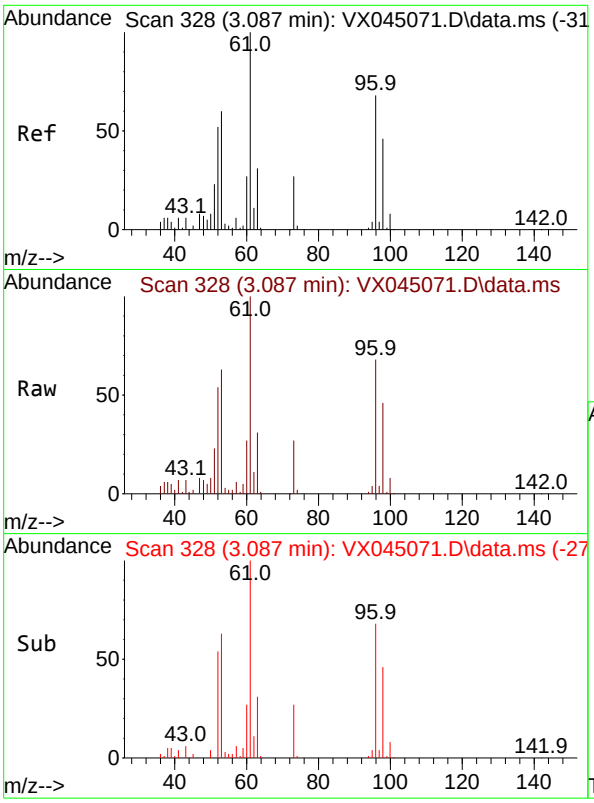


#20
Methylene Chloride
Concen: 48.500 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 84 Resp: 72081

Ion	Ratio	Lower	Upper
84	100		
49	133.1	106.5	159.7
51	40.1	32.1	48.1
86	62.5	50.0	75.0



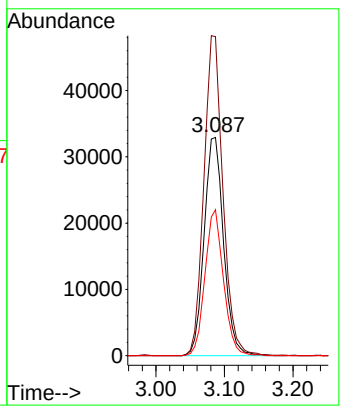


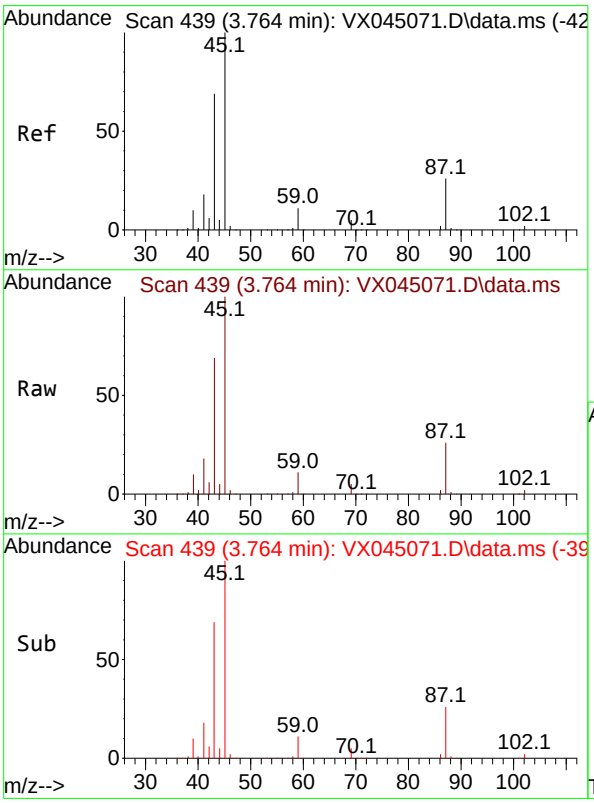
#21
trans-1,2-Dichloroethene
Concen: 49.832 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 65093

Ion	Ratio	Lower	Upper
96	100		
61	146.2	117.0	175.4
98	66.8	53.4	80.2

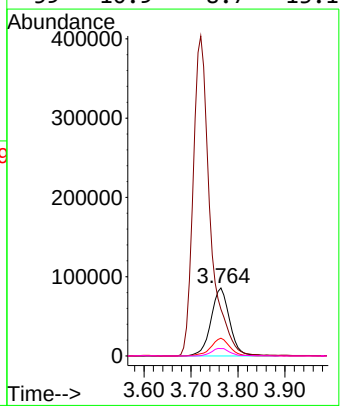


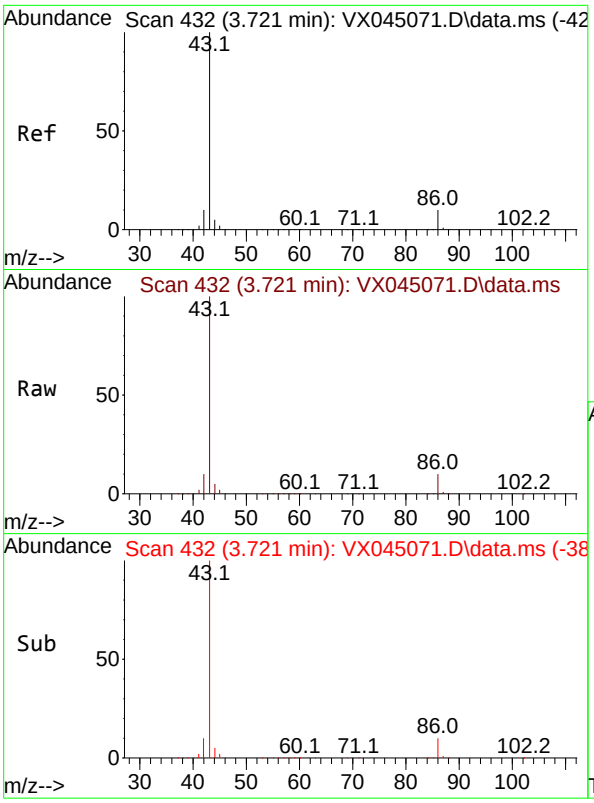


#22
Diisopropyl ether
Concen: 51.816 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 45 Resp: 236563

Ion	Ratio	Lower	Upper
45	100		
43	68.6	54.9	82.3
87	26.2	21.0	31.4
59	10.9	8.7	13.1



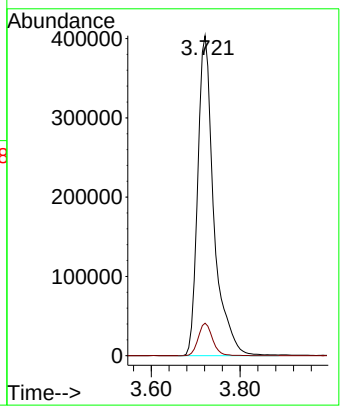


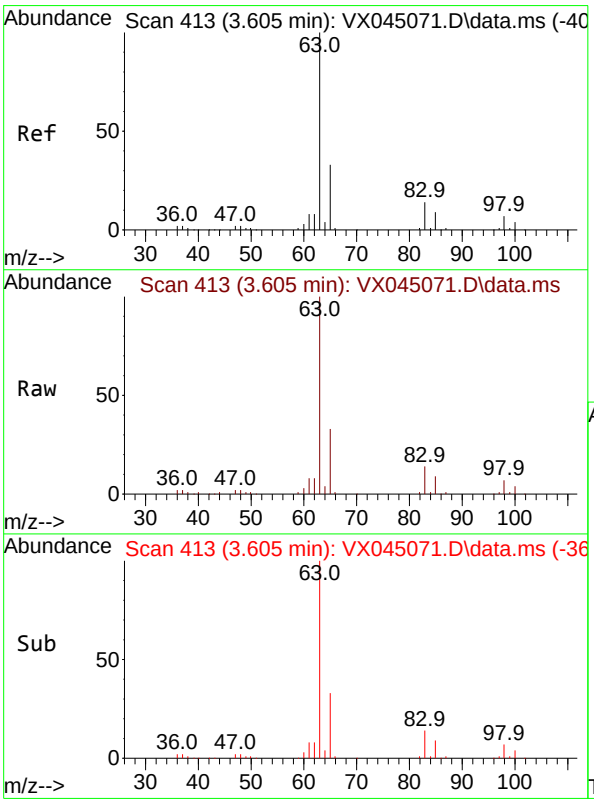
#23
Vinyl Acetate
Concen: 271.773 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1018631

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

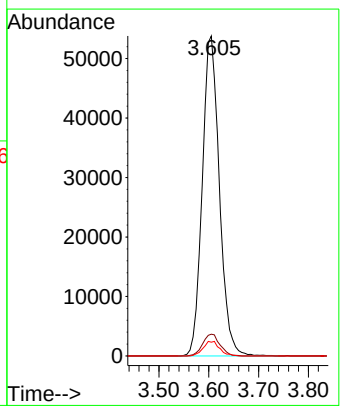


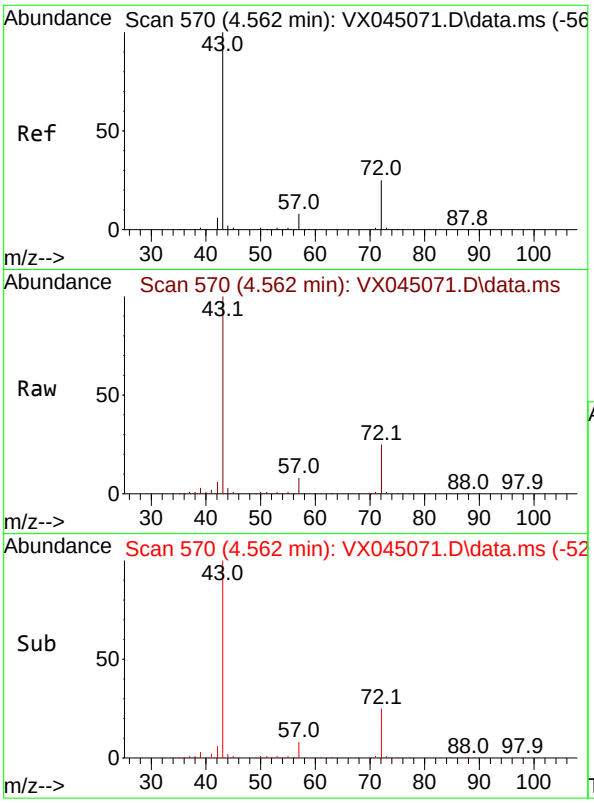


#24
1,1-Dichloroethane
Concen: 50.270 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 128235

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.3	2.1	6.5



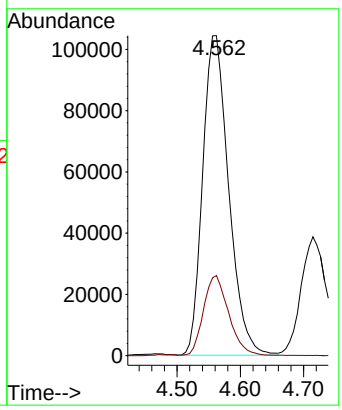


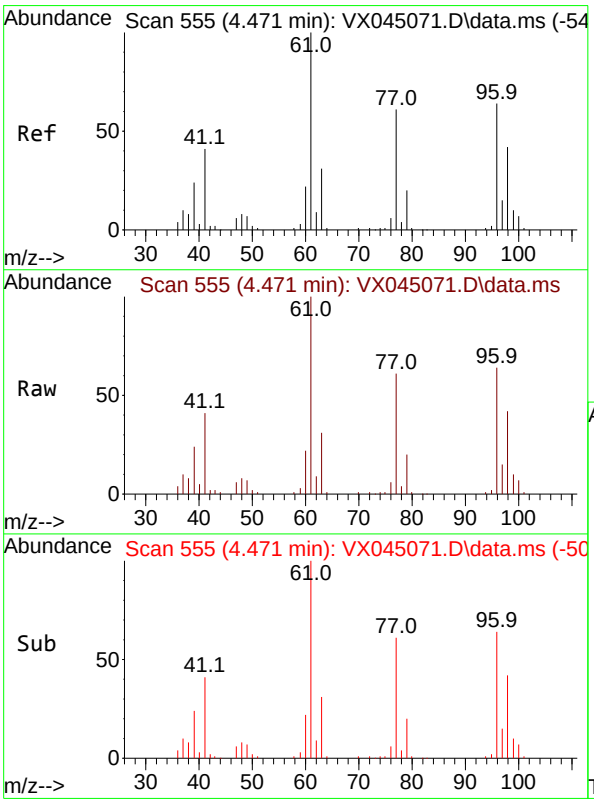
#25
2-Butanone
Concen: 295.330 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 298785

Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.0	30.0

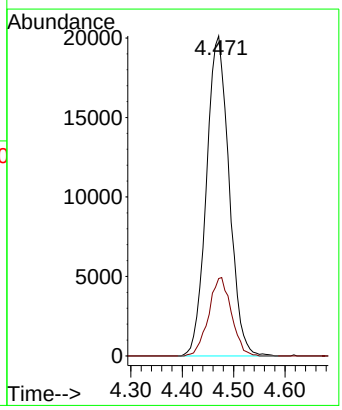


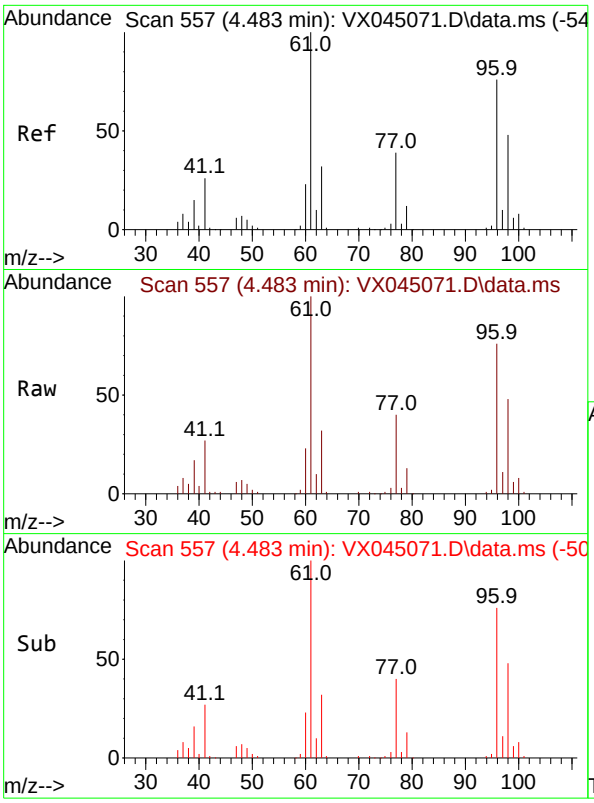


#26
2,2-Dichloropropane
Concen: 32.498 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 77 Resp: 61631

Ion	Ratio	Lower	Upper
77	100		
97	24.7	12.4	37.0



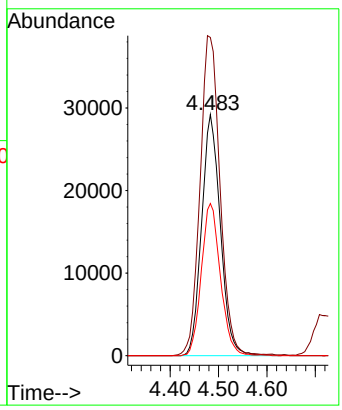


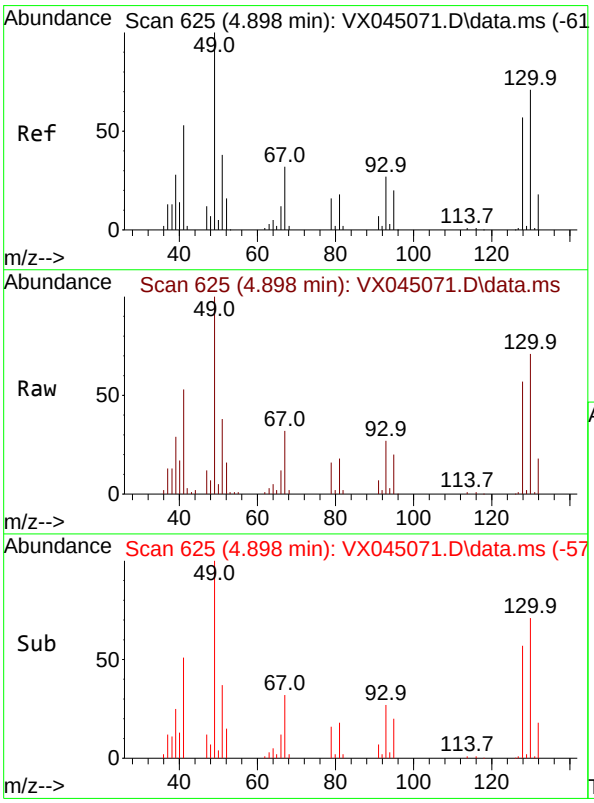
#27
cis-1,2-Dichloroethene
Concen: 49.955 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 78657

Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	283.2
98	64.0	0.0	128.0

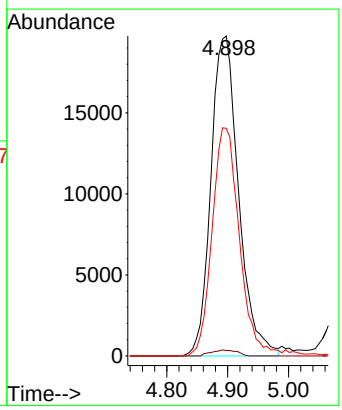


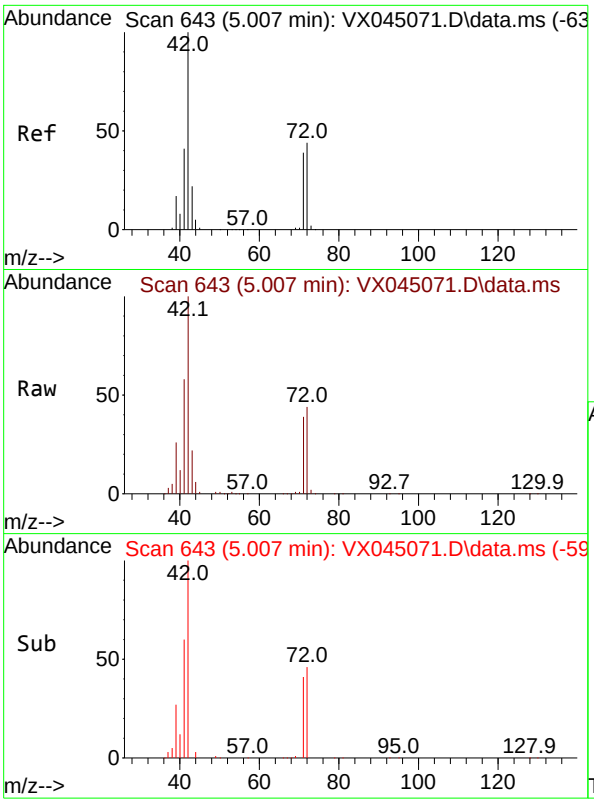


#28
Bromochloromethane
Concen: 50.643 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 49 Resp: 62299

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.1	56.1	84.1



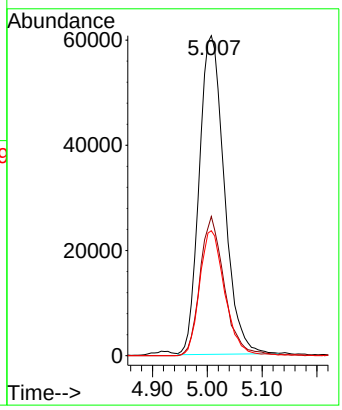


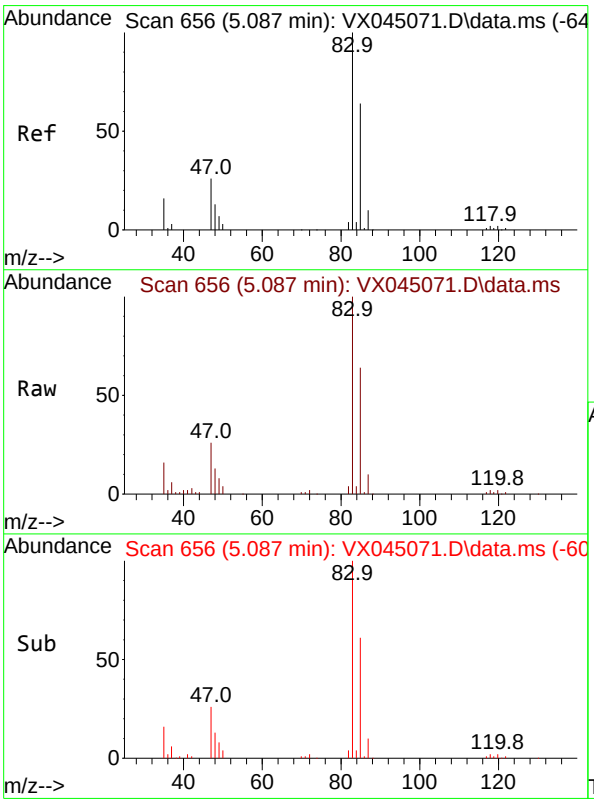
#29
Tetrahydrofuran
Concen: 287.345 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 192607

Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.1	51.1
71	39.2	31.4	47.0

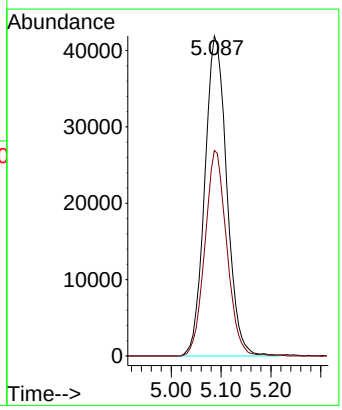


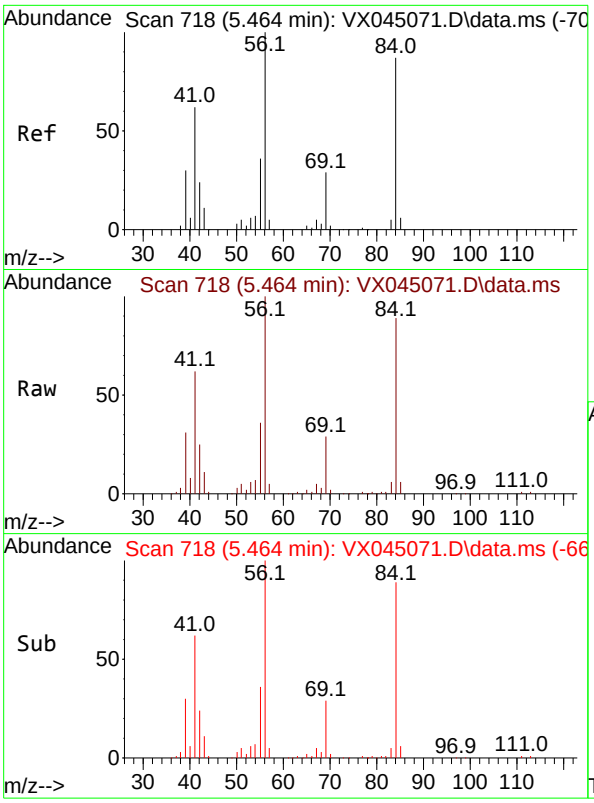


#30
Chloroform
Concen: 51.532 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 128581

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.4	77.2



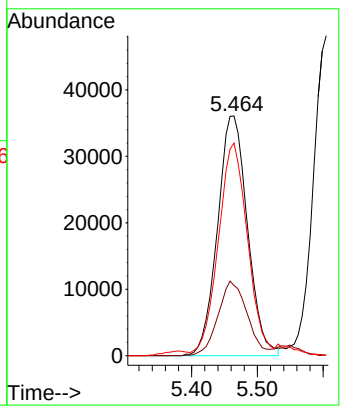


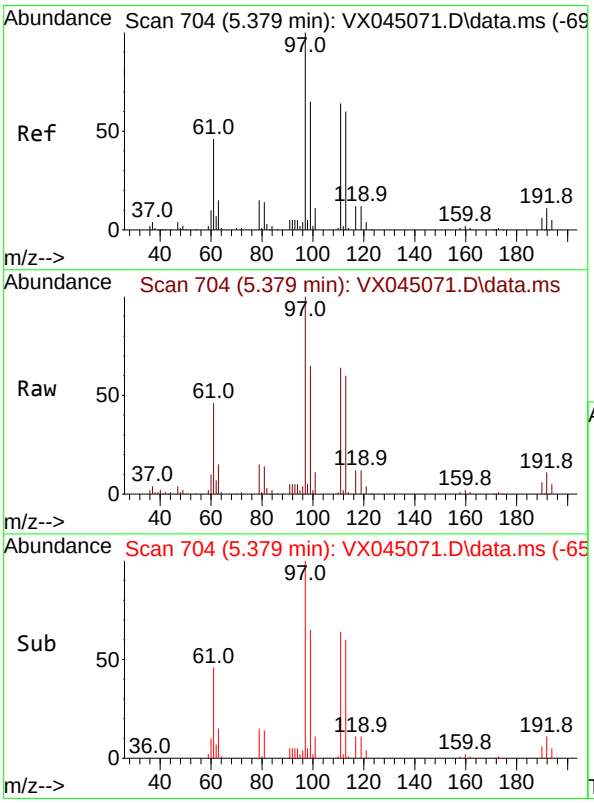
#31
Cyclohexane
Concen: 48.836 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 114333

Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.4	35.2
84	86.8	69.4	104.2

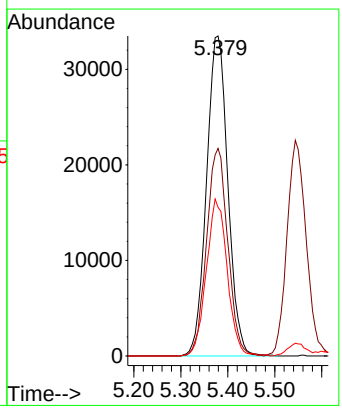


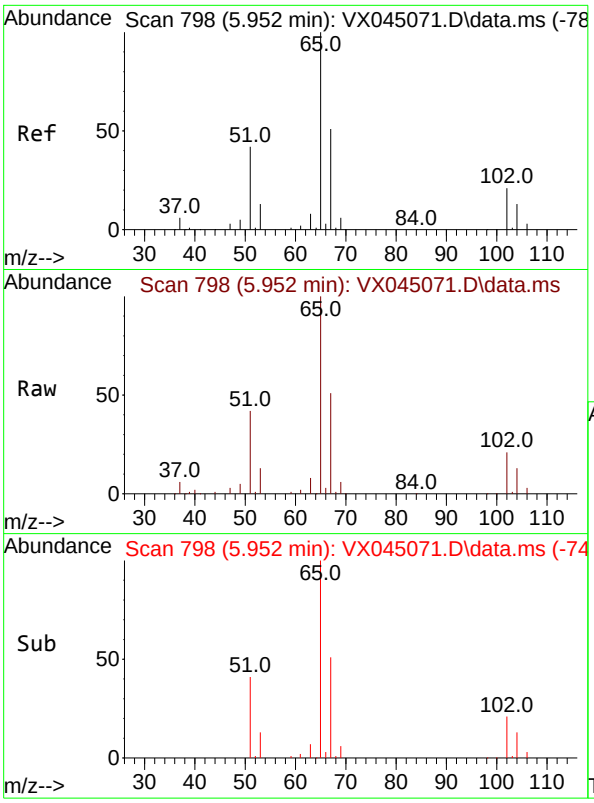


#32
1,1,1-Trichloroethane
Concen: 50.306 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 97 Resp: 105671

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	48.0	38.4	57.6



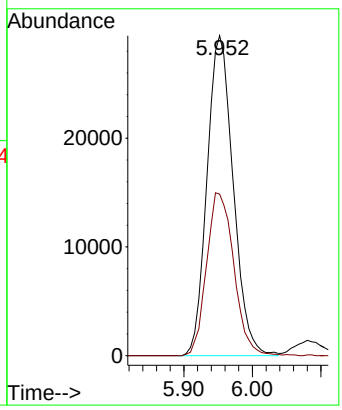


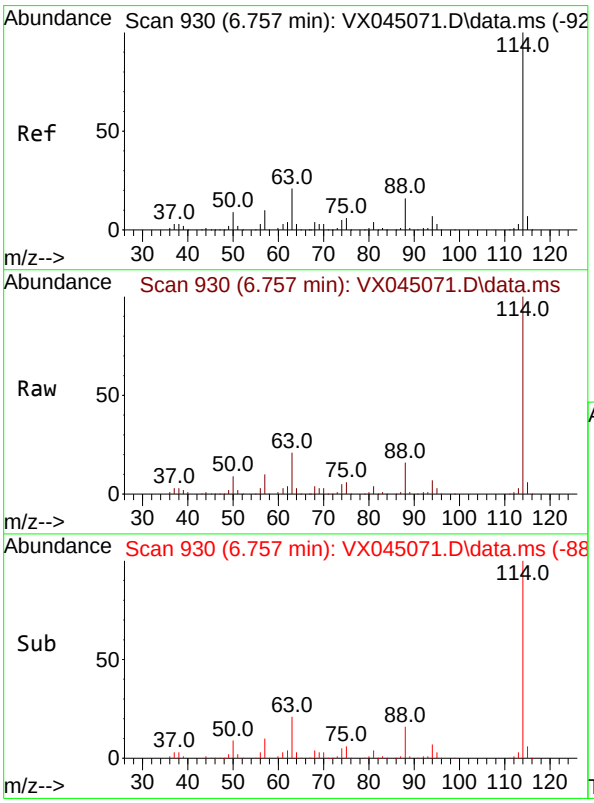
#33
1,2-Dichloroethane-d4
Concen: 51.250 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 78159

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.2

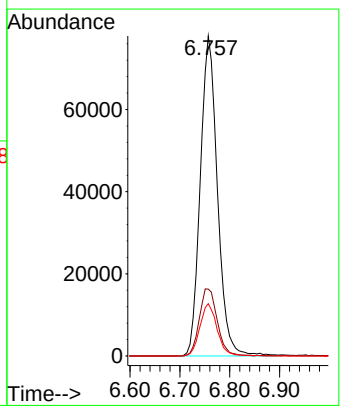


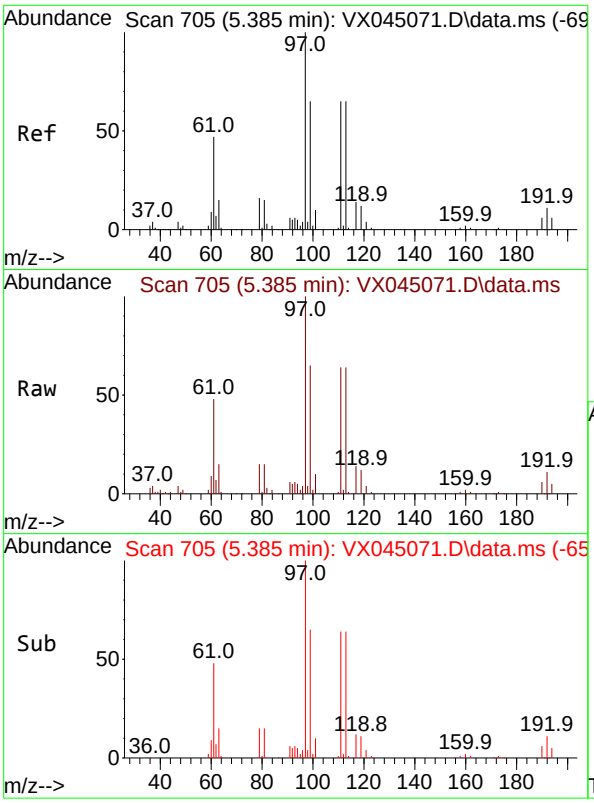


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:114 Resp: 186358

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	41.8
88	16.4	0.0	32.8



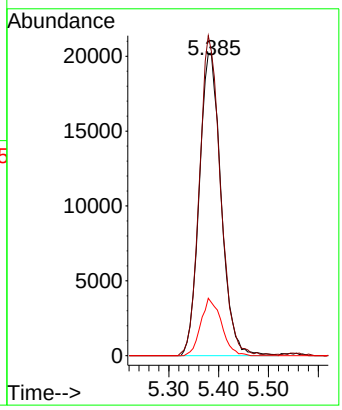


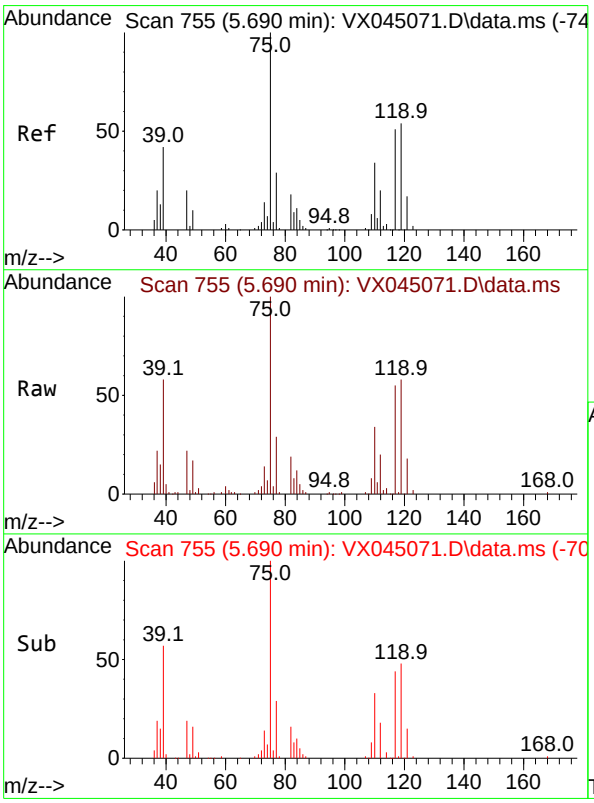
#35
Dibromofluoromethane
Concen: 50.346 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 61323

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	17.9	14.3	21.5

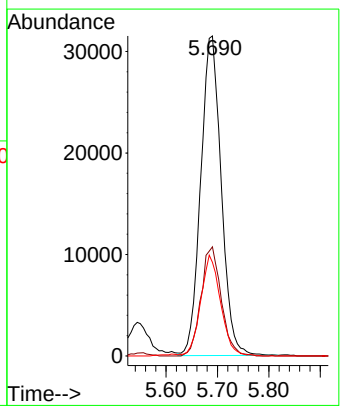


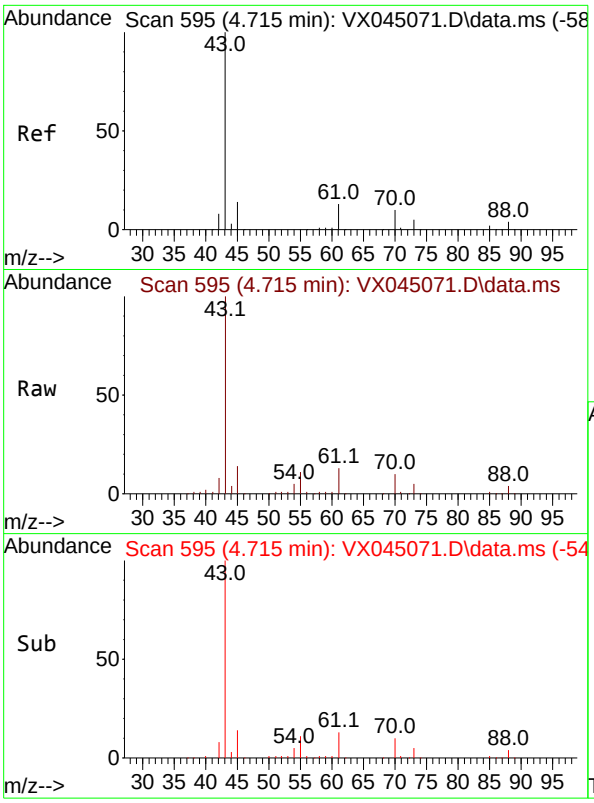


#36
1,1-Dichloropropene
Concen: 49.861 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 87338

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	30.6	24.5	36.7



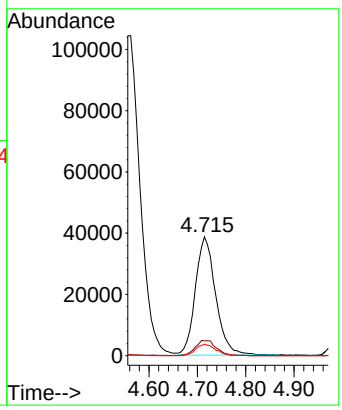


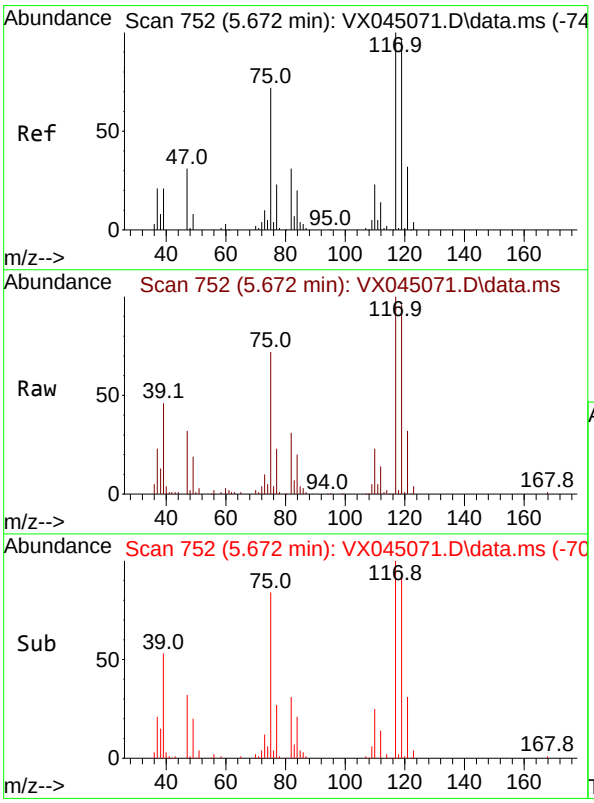
#37
Ethyl Acetate
Concen: 56.641 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 112892

Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.8	16.2
70	9.6	7.7	11.5

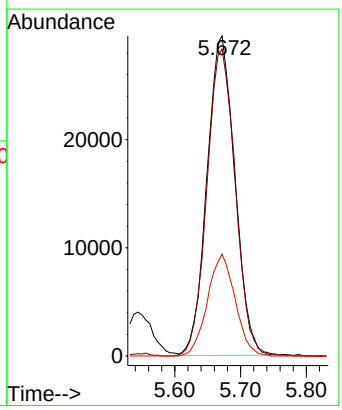


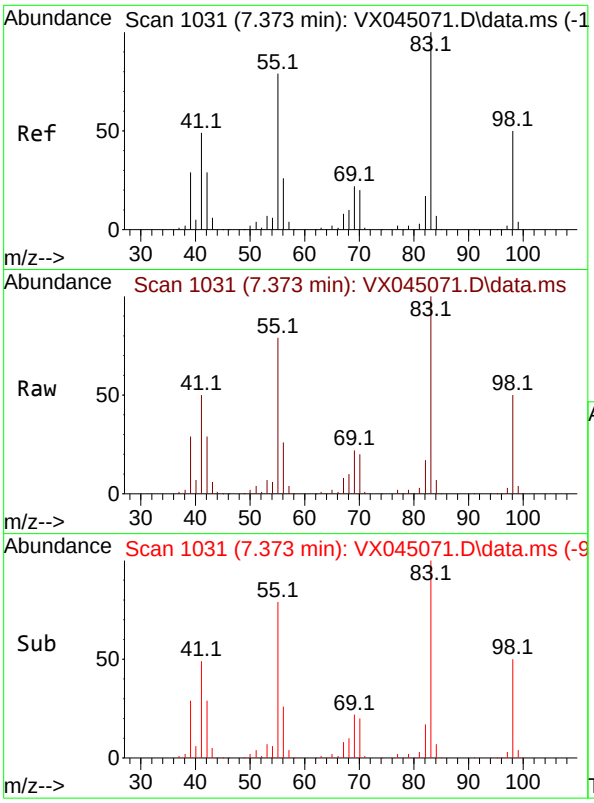


#38
Carbon Tetrachloride
Concen: 50.593 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:117 Resp: 87123

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
121	31.9	25.5	38.3



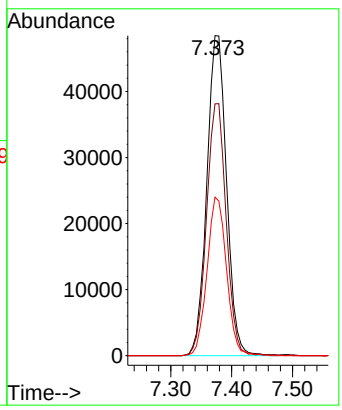


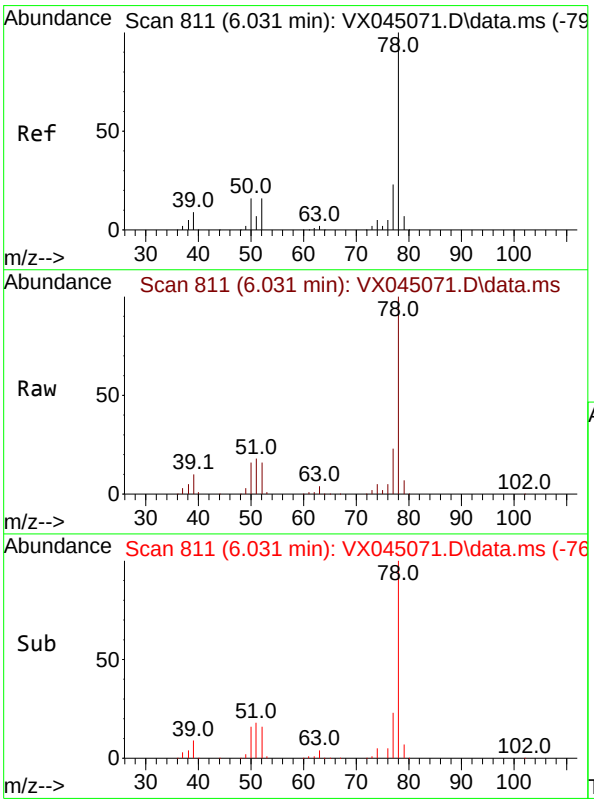
#39
Methylcyclohexane
Concen: 48.715 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 108974

Ion	Ratio	Lower	Upper
83	100		
55	78.7	63.0	94.4
98	49.6	39.7	59.5

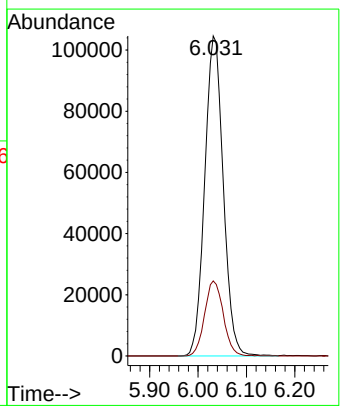


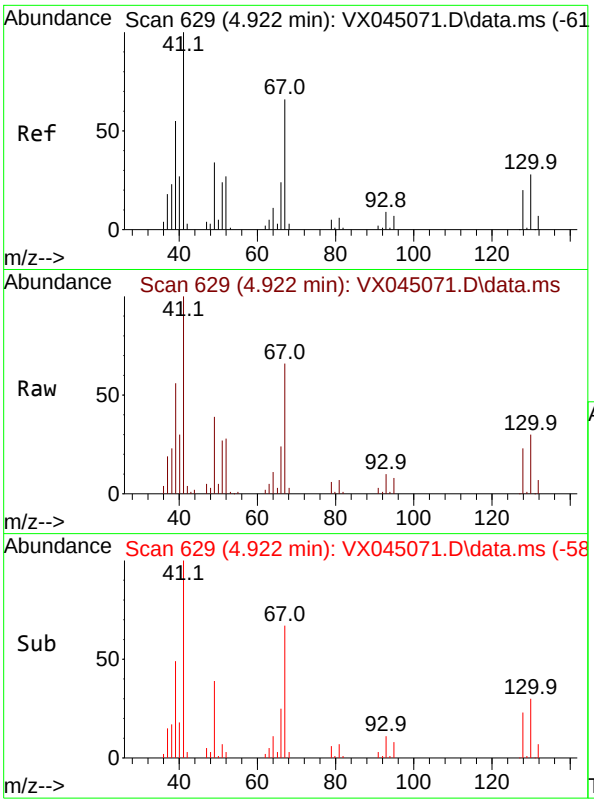


#40
Benzene
Concen: 50.925 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 78 Resp: 278802

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



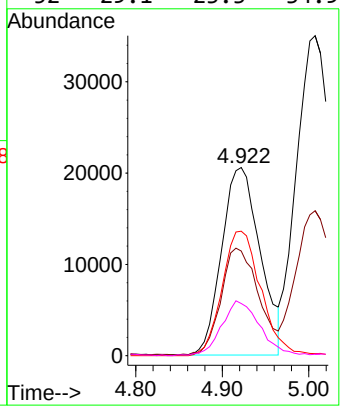


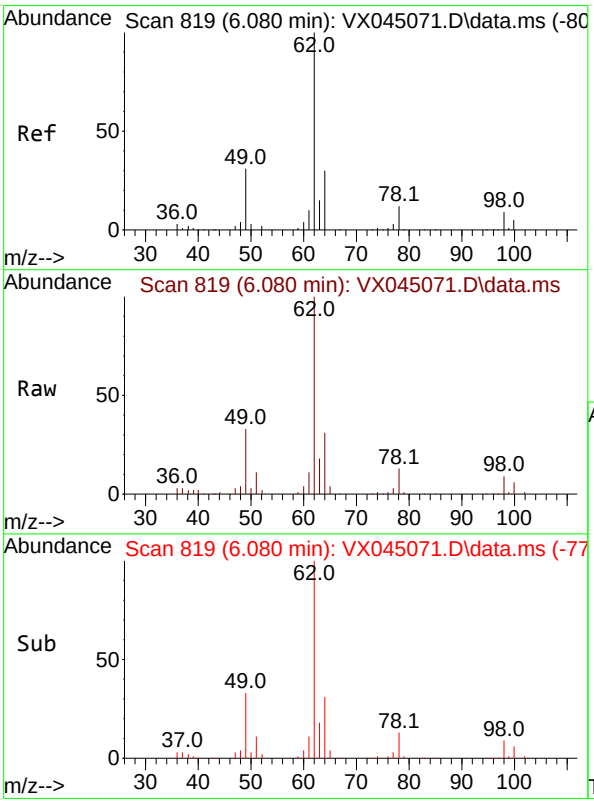
#41
Methacrylonitrile
Concen: 59.598 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 63454

Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.6	67.0
67	67.4	53.9	80.9
52	29.1	23.3	34.9

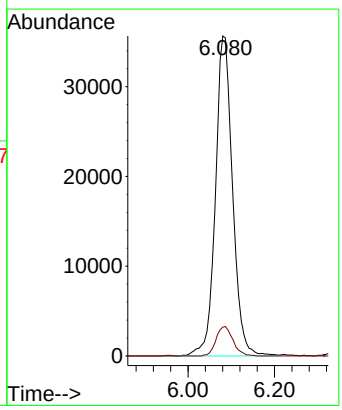


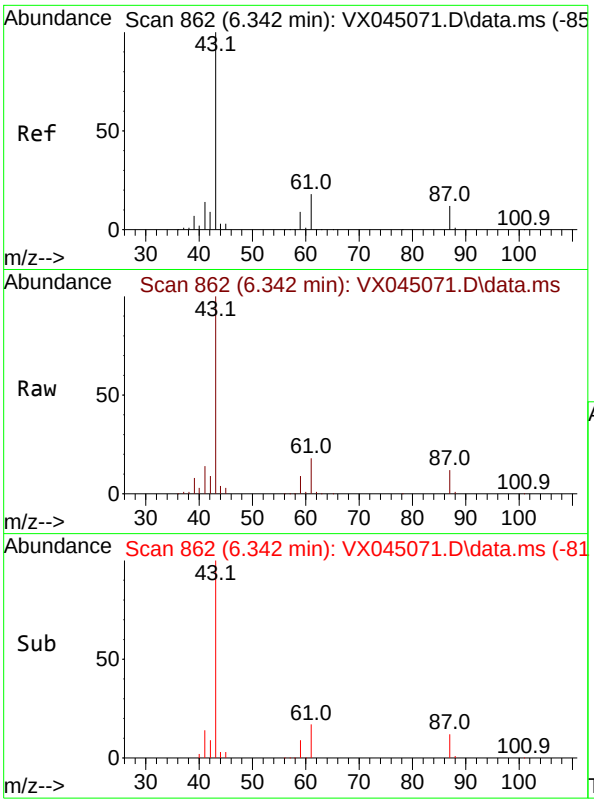


#42
1,2-Dichloroethane
Concen: 55.428 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 98340

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2



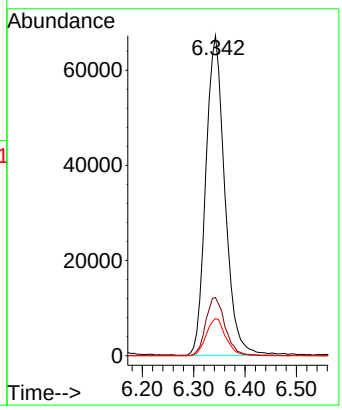


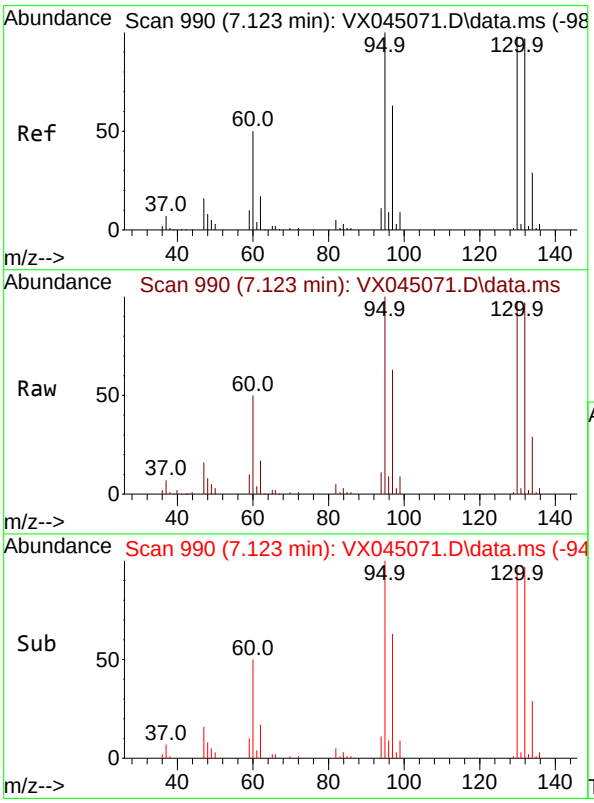
#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 173045

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.9	22.3
87	11.8	9.4	14.2

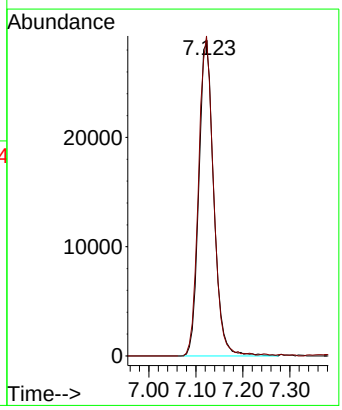


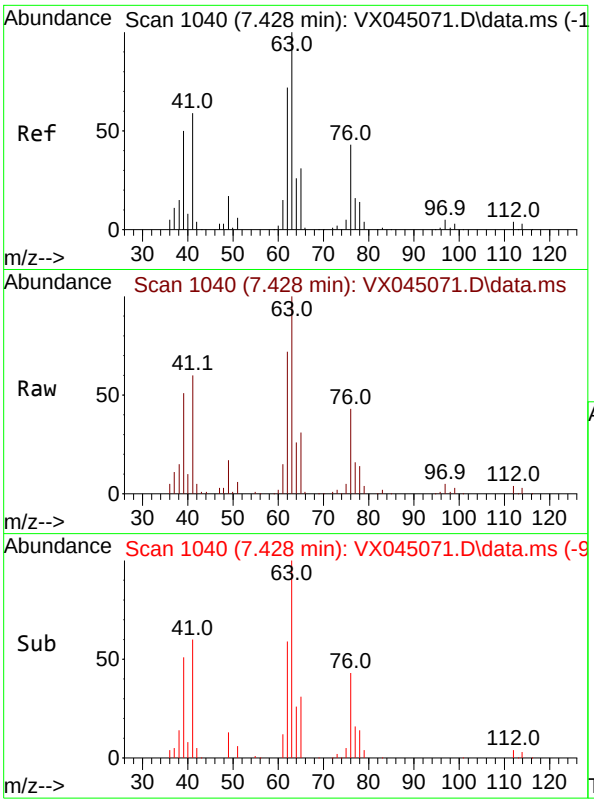


#44
Trichloroethene
Concen: 50.756 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:130 Resp: 63513

Ion	Ratio	Lower	Upper
130	100		
95	102.5	0.0	205.0



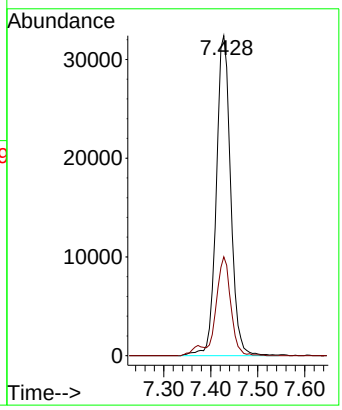


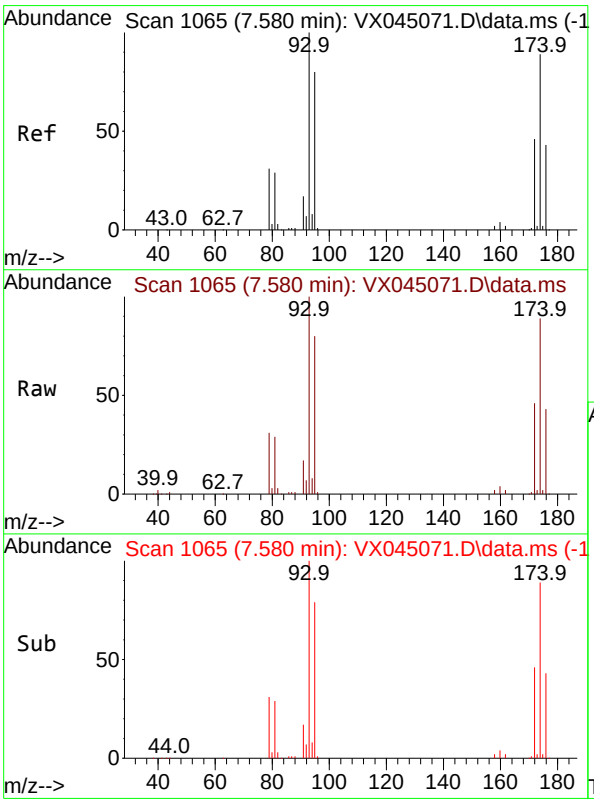
#45
1,2-Dichloropropane
Concen: 50.808 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 69128

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1

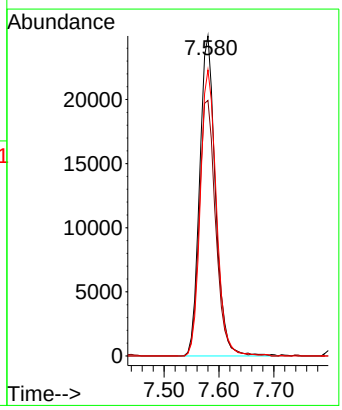


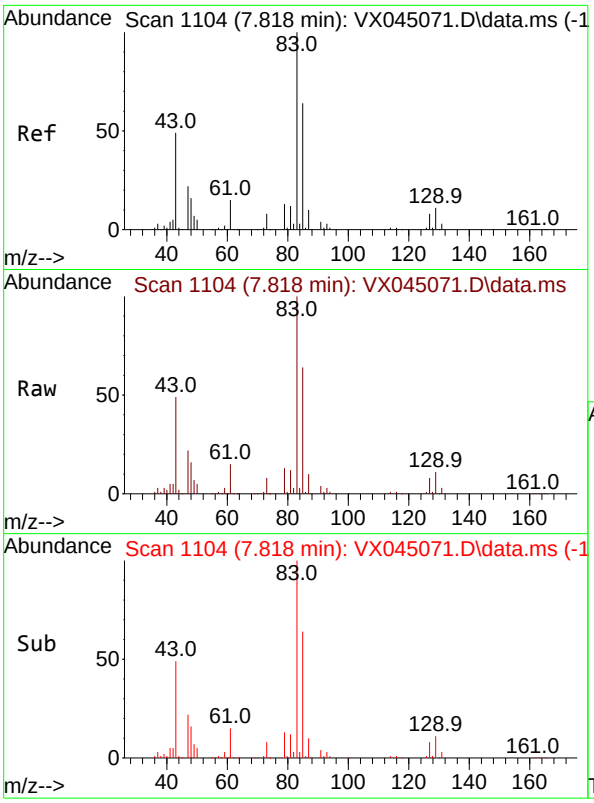


#46
Dibromomethane
Concen: 52.757 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 93 Resp: 50143

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.8	98.8
174	90.2	72.2	108.2



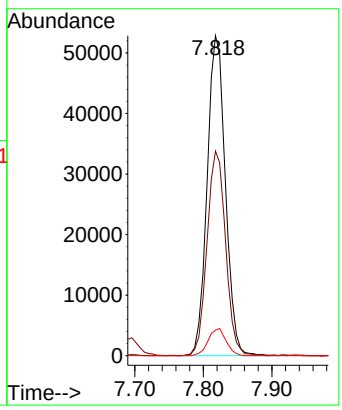


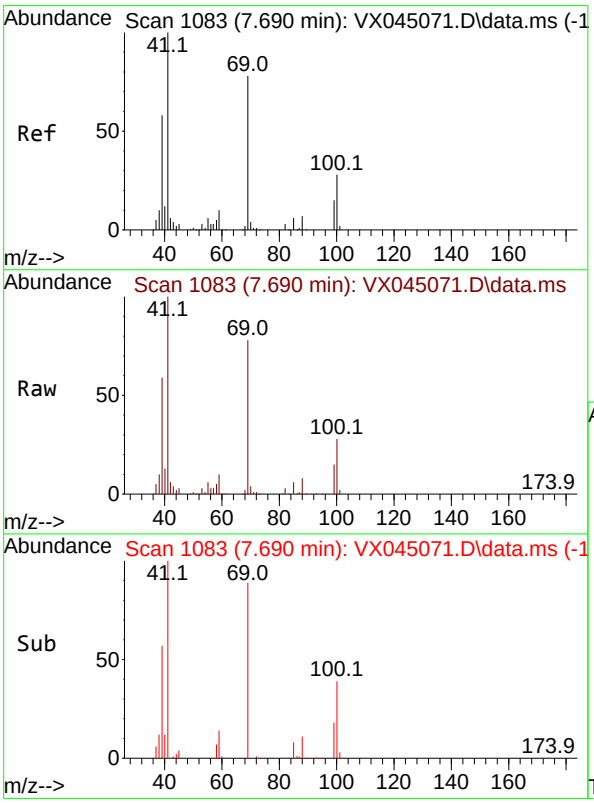
#47
Bromodichloromethane
Concen: 53.153 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 97729

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.0	6.4	9.6

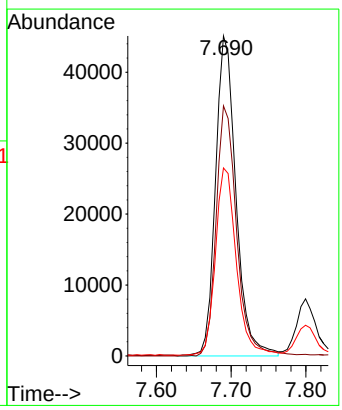


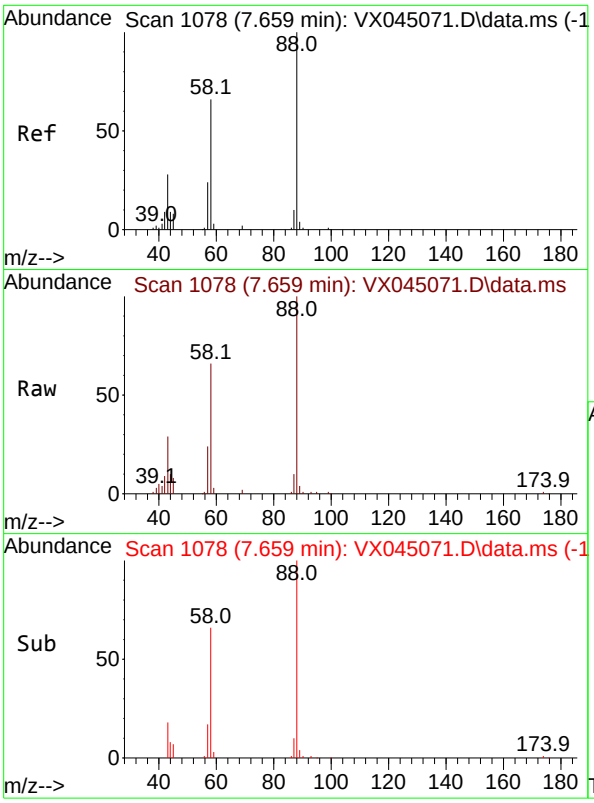


#48
Methyl methacrylate
Concen: 57.256 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 86231

Ion	Ratio	Lower	Upper
41	100		
69	78.8	63.0	94.6
39	59.4	47.5	71.3



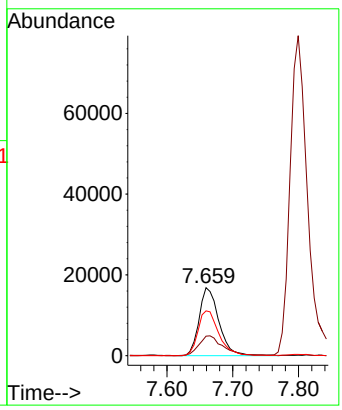


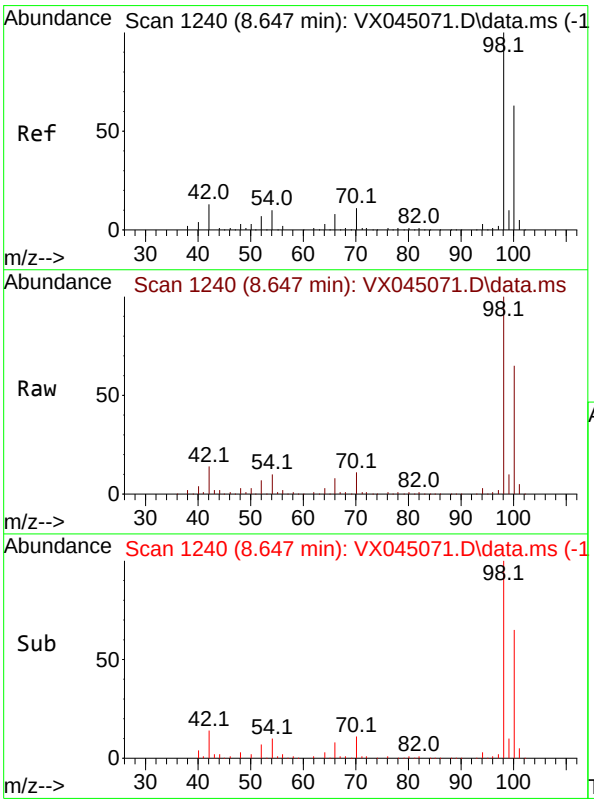
#49
1,4-Dioxane
Concen: 1095.003 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 35053

Ion	Ratio	Lower	Upper
88	100		
43	35.9	28.7	43.1
58	69.8	55.8	83.8

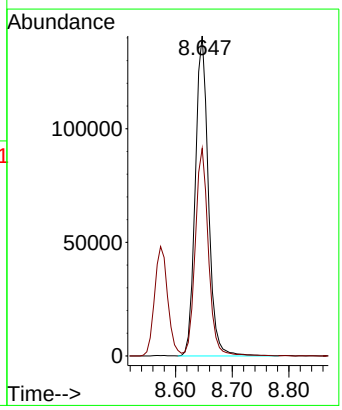


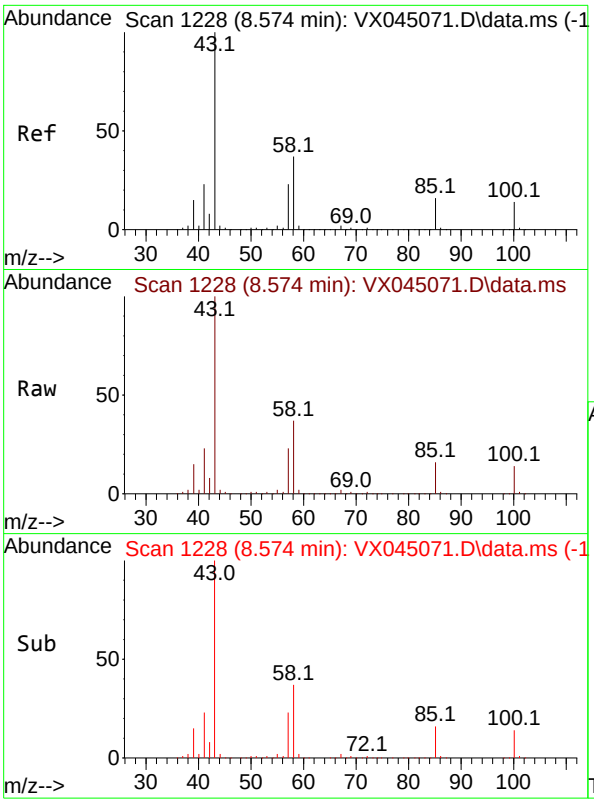


#50
Toluene-d8
Concen: 49.449 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 98 Resp: 225493

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0



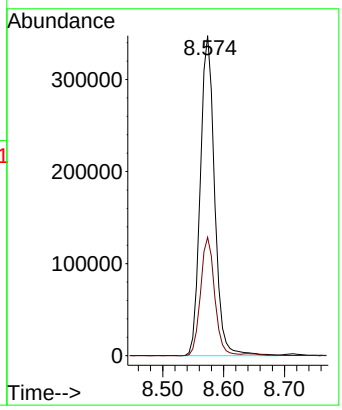


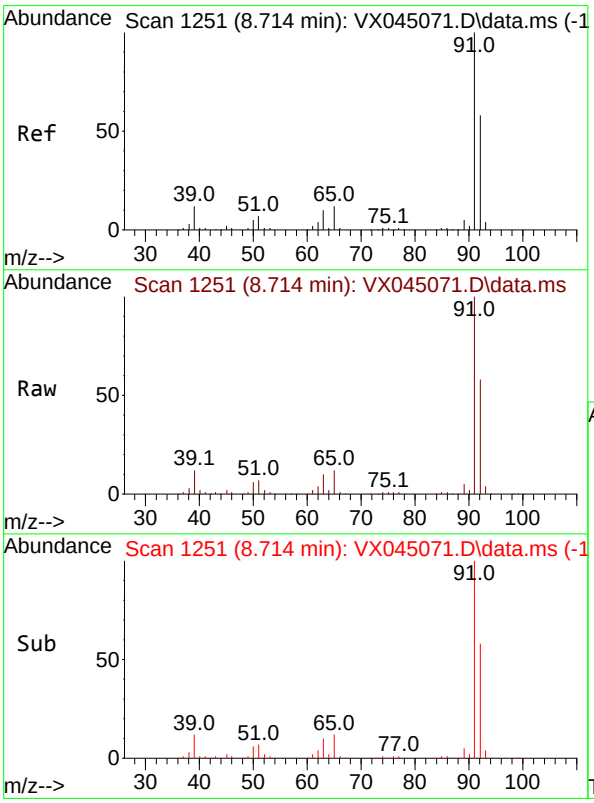
#51
4-Methyl-2-Pentanone
Concen: 292.570 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 568737

Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.2	43.8

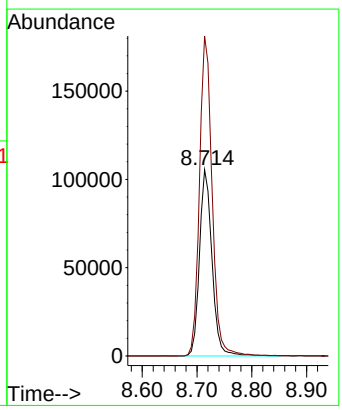


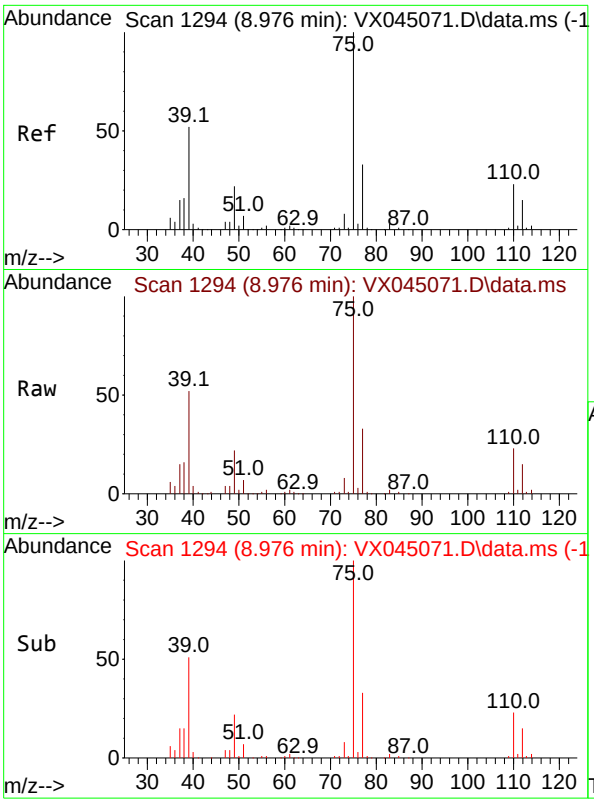


#52
Toluene
Concen: 51.505 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 92 Resp: 167431

Ion	Ratio	Lower	Upper
92	100		
91	173.6	138.9	208.3



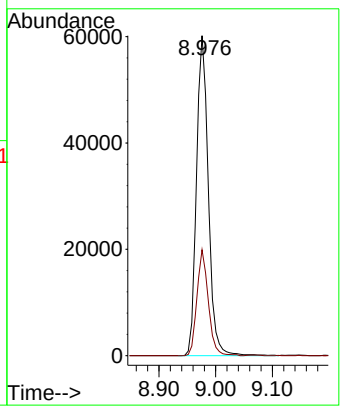


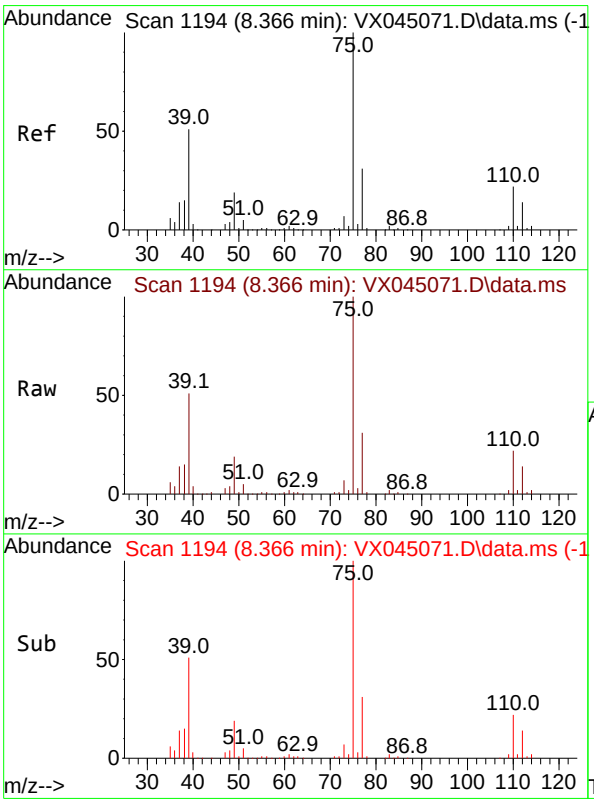
#53
t-1,3-Dichloropropene
Concen: 48.078 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 87373

Ion	Ratio	Lower	Upper
75	100		
77	33.1	26.5	39.7

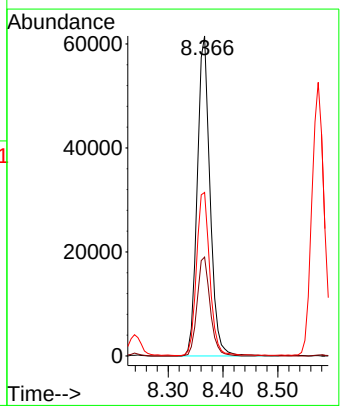


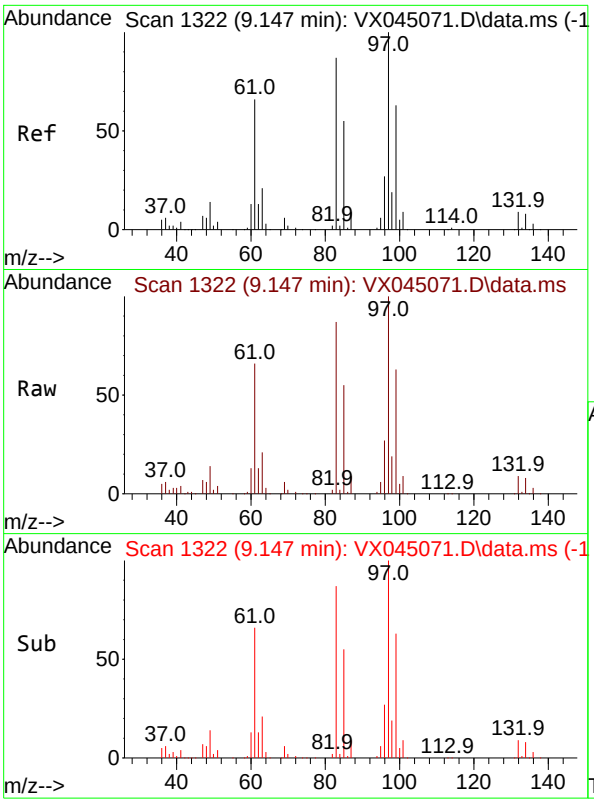


#54
cis-1,3-Dichloropropene
Concen: 49.079 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 99713

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.9	40.7	61.1



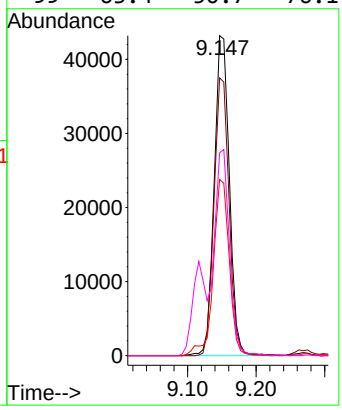


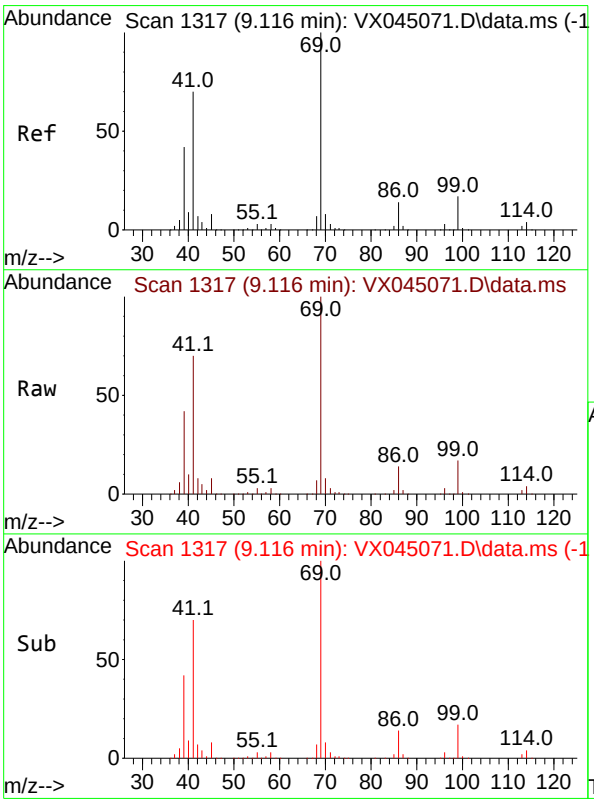
#55
1,1,2-Trichloroethane
Concen: 52.724 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 66379

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.4	104.2
85	55.1	44.1	66.1
99	63.4	50.7	76.1

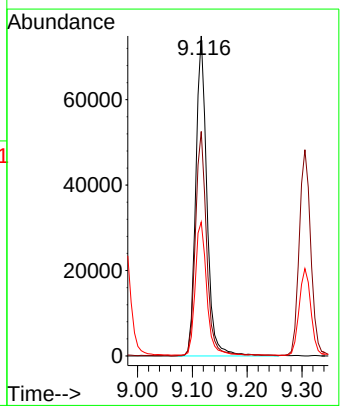


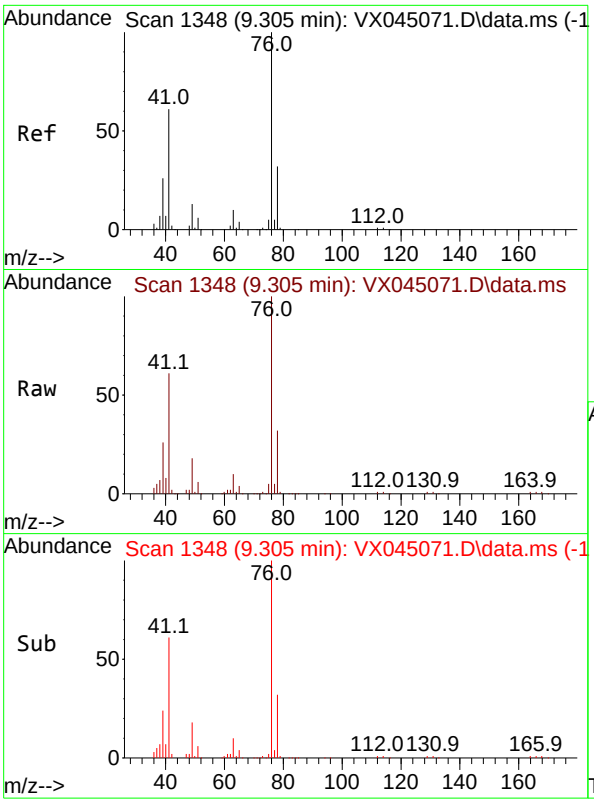


#56
Ethyl methacrylate
Concen: 52.724 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 69 Resp: 106157

Ion	Ratio	Lower	Upper
69	100		
41	71.2	57.0	85.4
39	42.8	34.2	51.4



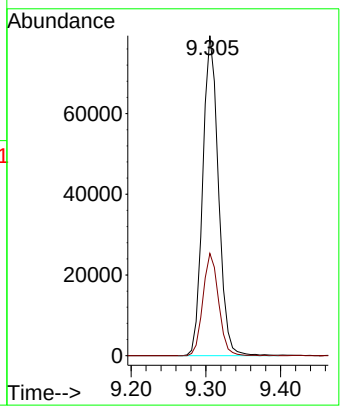


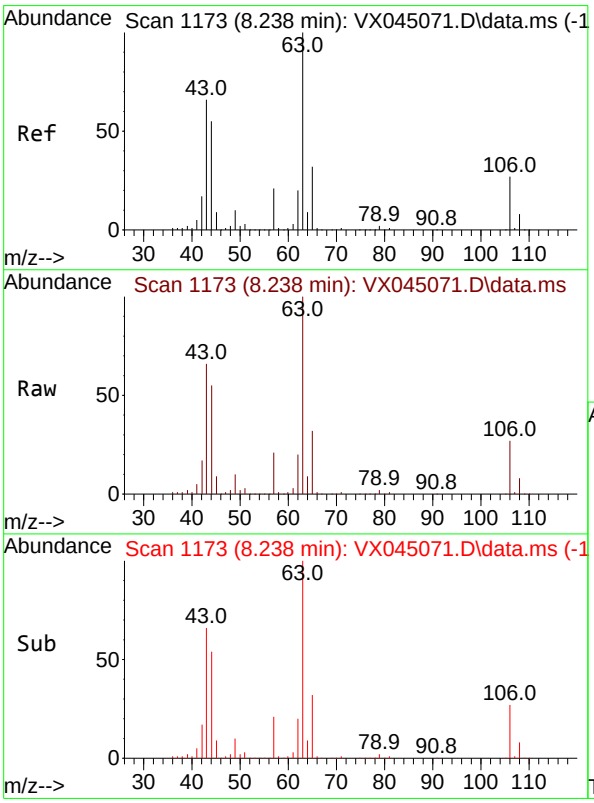
#57
1,3-Dichloropropane
Concen: 52.594 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 115488

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

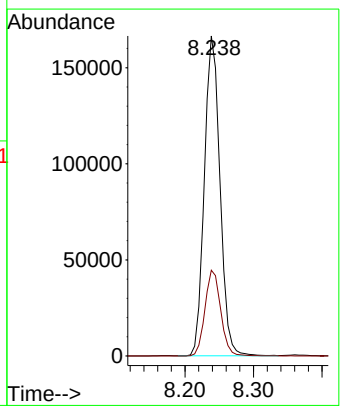


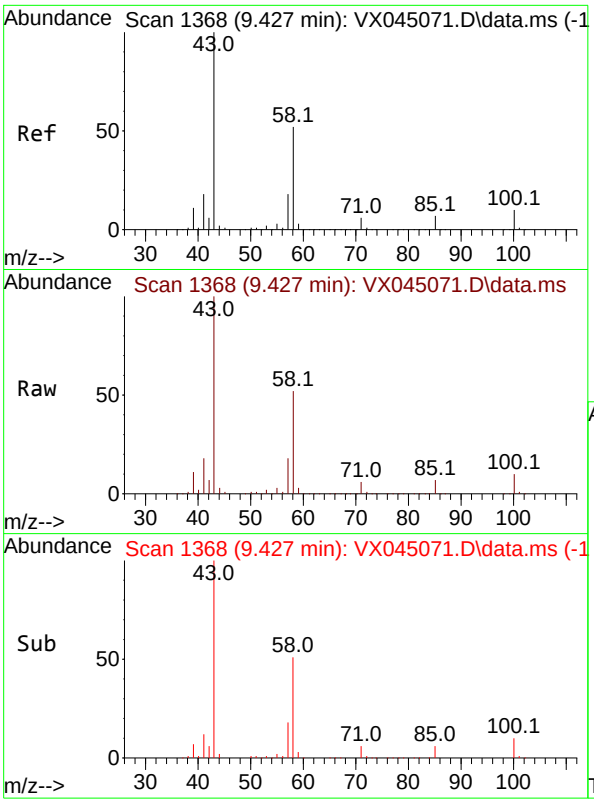


#58
2-Chloroethyl Vinyl ether
Concen: 267.612 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 264555

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.5	32.3



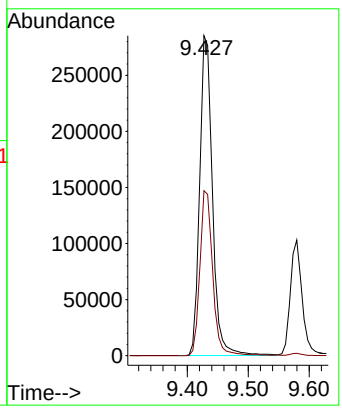


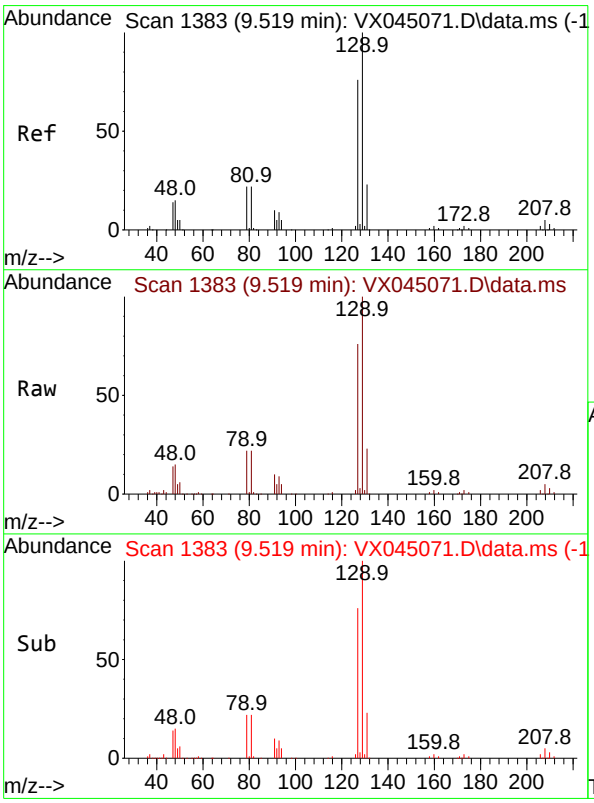
#59
2-Hexanone
Concen: 297.362 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 416984

Ion	Ratio	Lower	Upper
43	100		
58	51.7	25.9	77.6

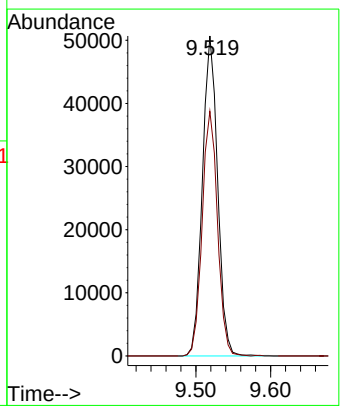


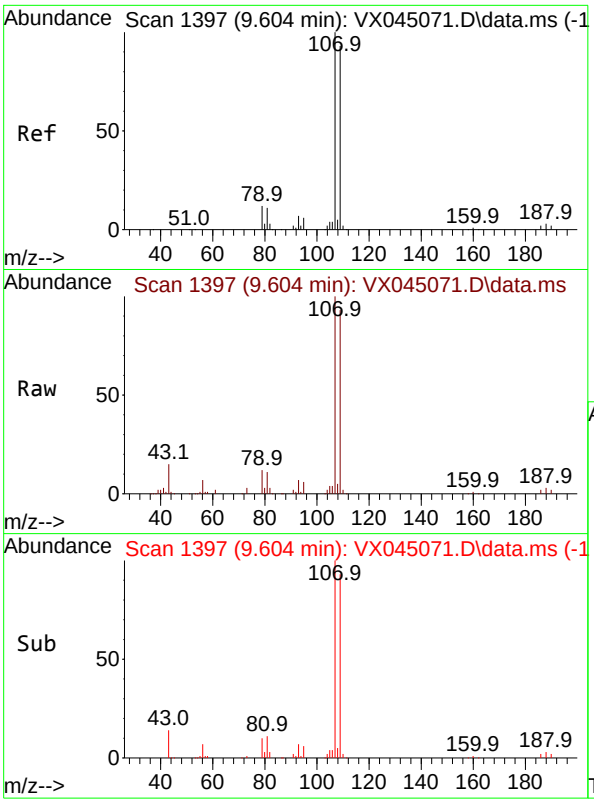


#60
Dibromochloromethane
Concen: 53.284 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:129 Resp: 71569

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5



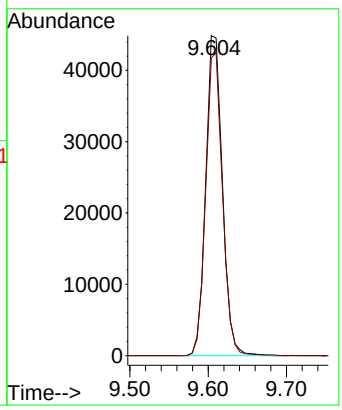


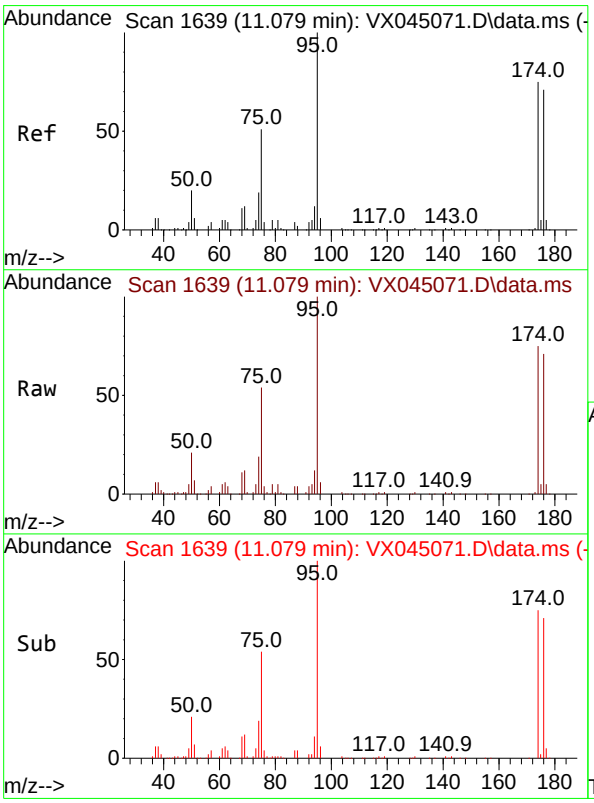
#61
1,2-Dibromoethane
Concen: 52.217 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 66312

Ion	Ratio	Lower	Upper
107	100		
109	95.1	76.1	114.1

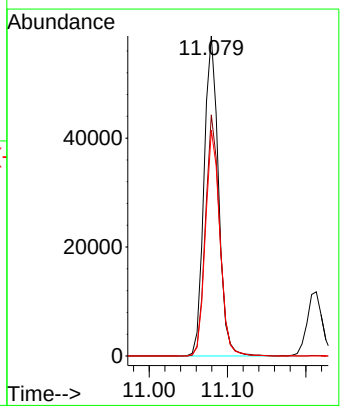


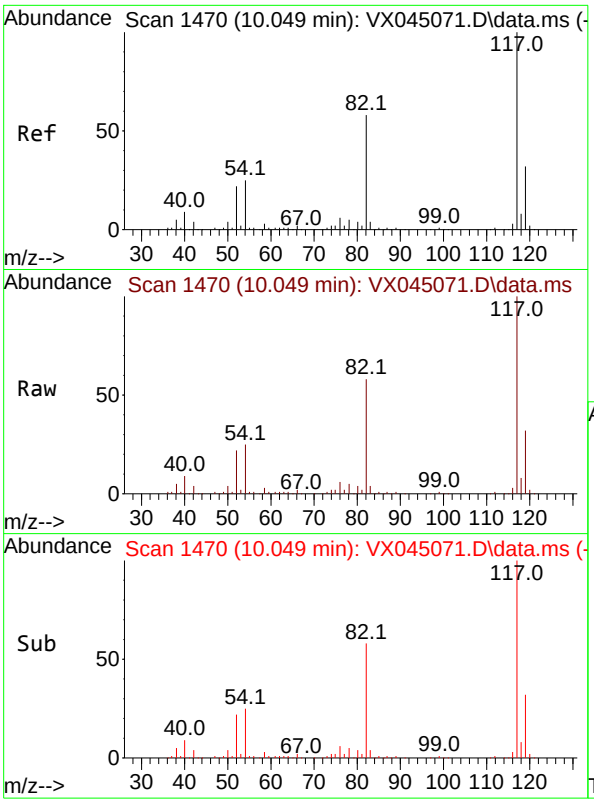


#62
4-Bromofluorobenzene
Concen: 49.212 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 95 Resp: 74945

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	148.2
176	70.7	0.0	141.4



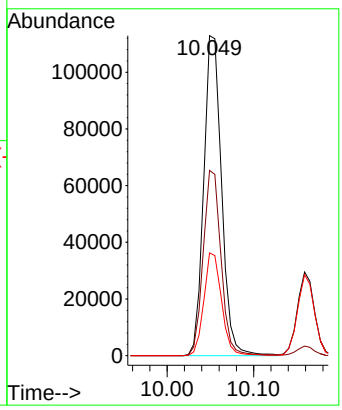


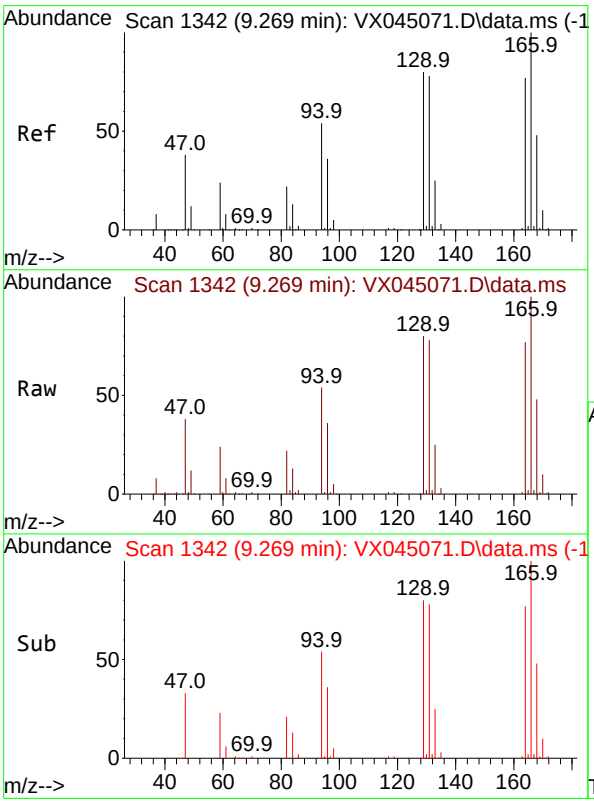
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 162079

Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.3	69.5
119	32.1	25.7	38.5

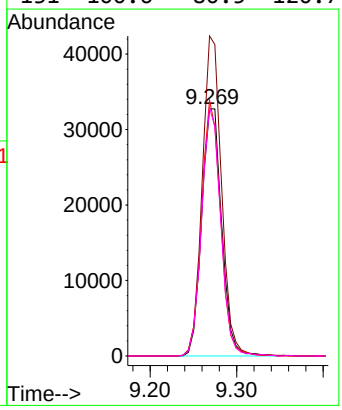


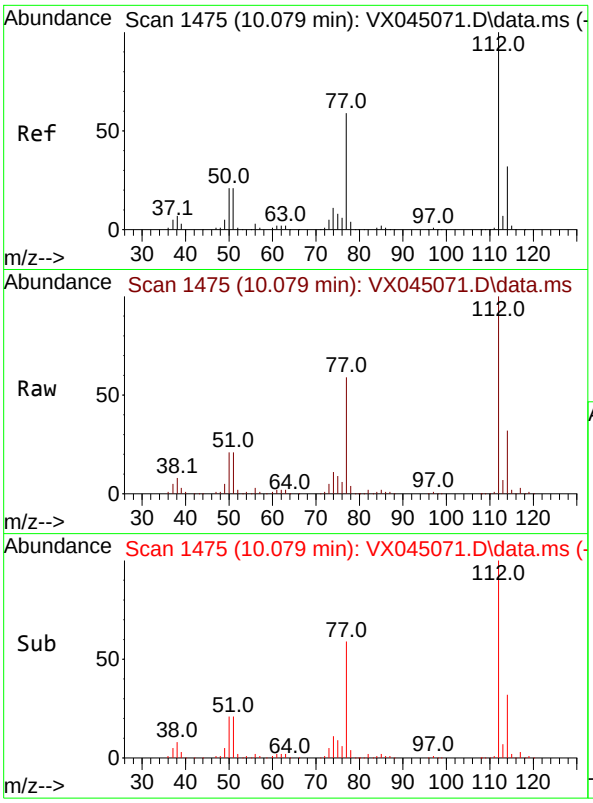


#64
Tetrachloroethene
Concen: 51.021 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:164 Resp: 52531

Ion	Ratio	Lower	Upper
164	100		
166	129.5	103.6	155.4
129	103.4	82.7	124.1
131	100.6	80.5	120.7



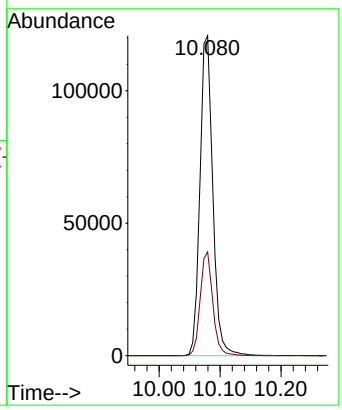


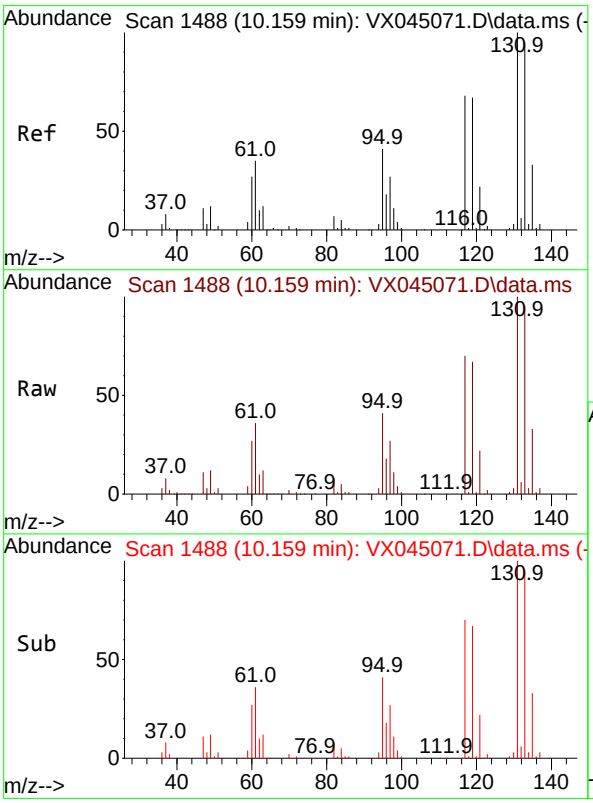
#65
Chlorobenzene
Concen: 50.853 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 176922

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0

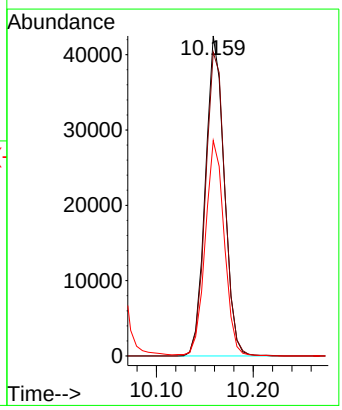


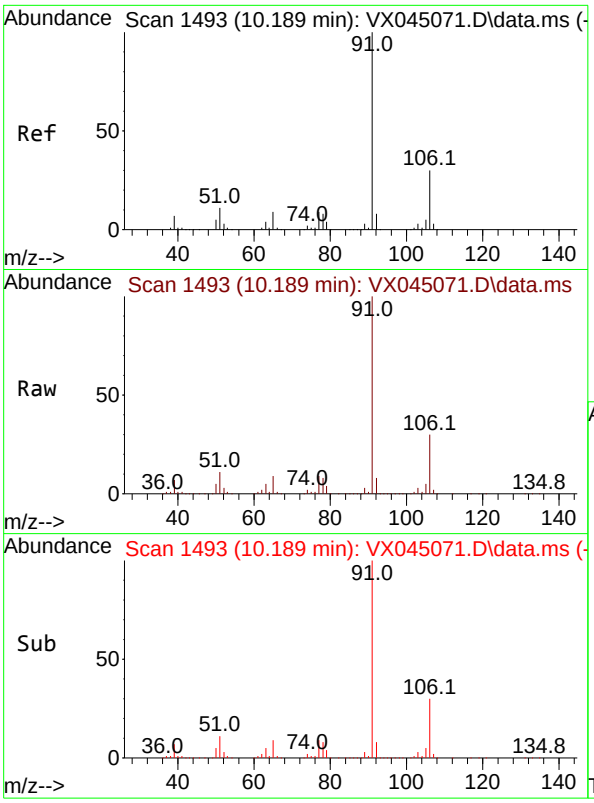


#66
1,1,1,2-Tetrachloroethane
Concen: 51.402 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:131 Resp: 57642

Ion	Ratio	Lower	Upper
131	100		
133	97.3	48.6	145.9
119	67.8	33.9	101.7



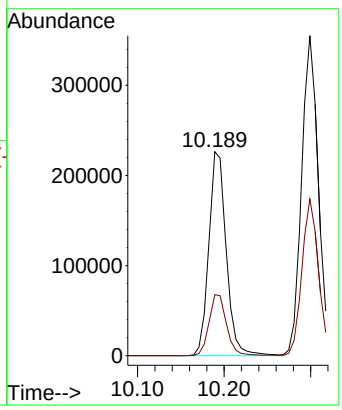


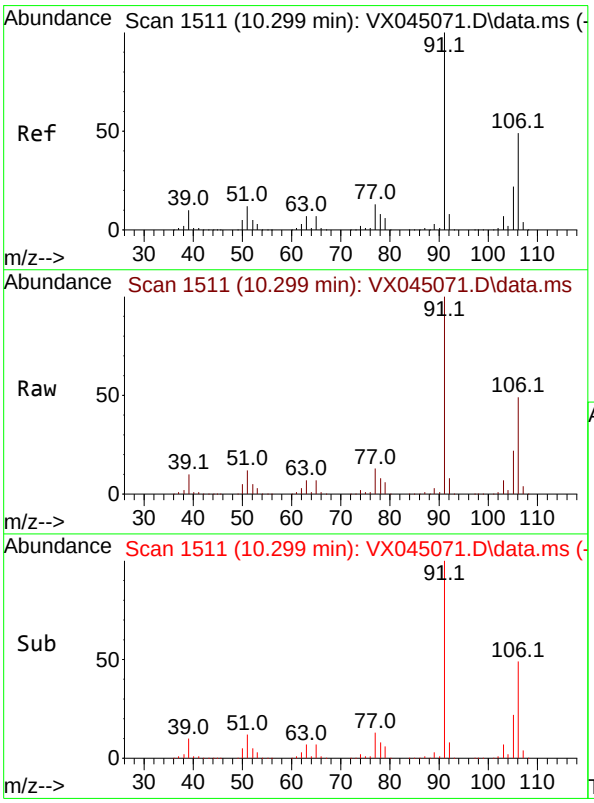
#67
Ethyl Benzene
Concen: 51.431 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 316427

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

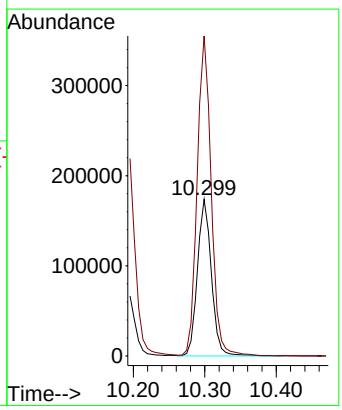


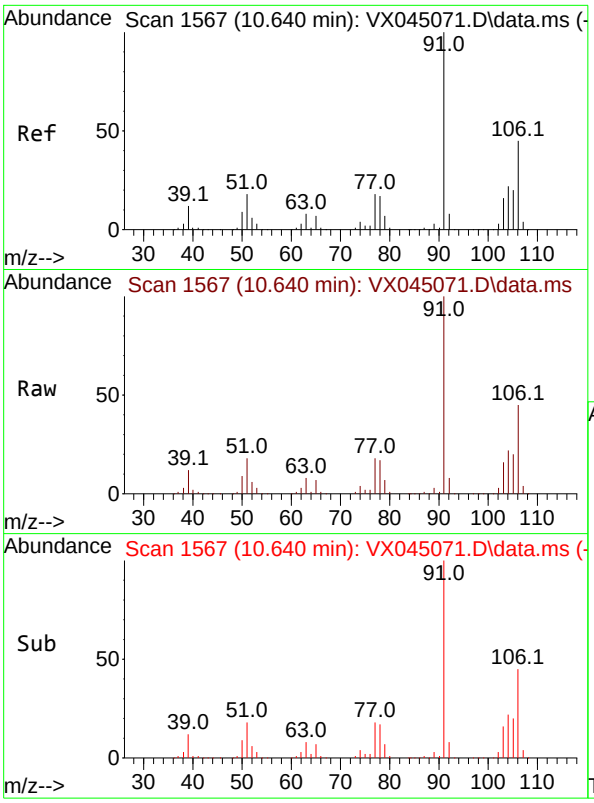


#68
m/p-Xylenes
Concen: 103.515 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:106 Resp: 234554

Ion	Ratio	Lower	Upper
106	100		
91	206.7	165.4	248.0



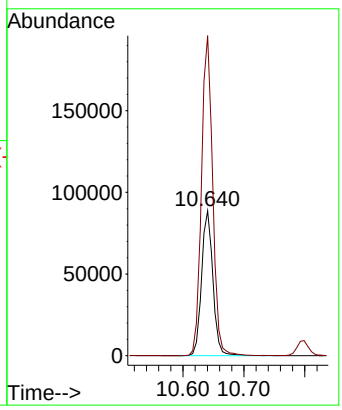


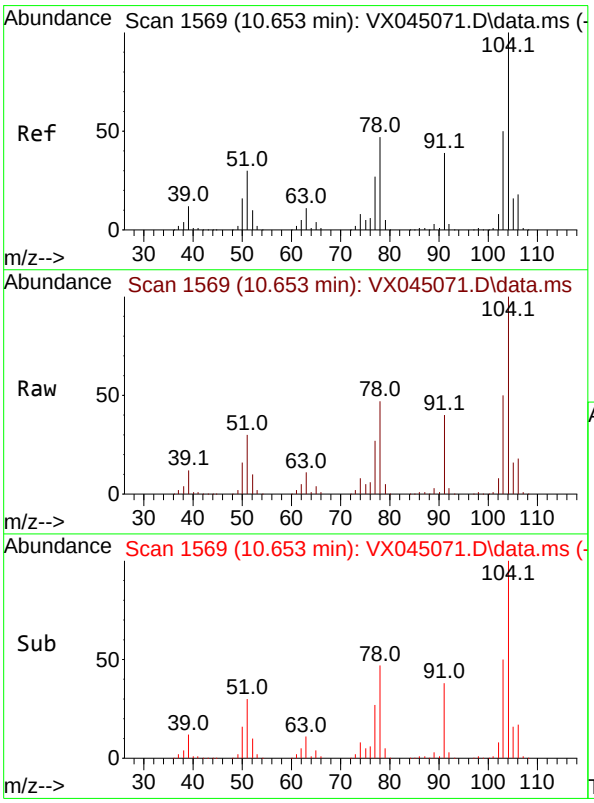
#69
o-Xylene
Concen: 50.341 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 114440

Ion	Ratio	Lower	Upper
106	100		
91	219.7	109.9	329.6

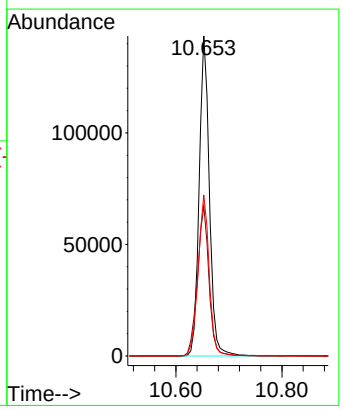


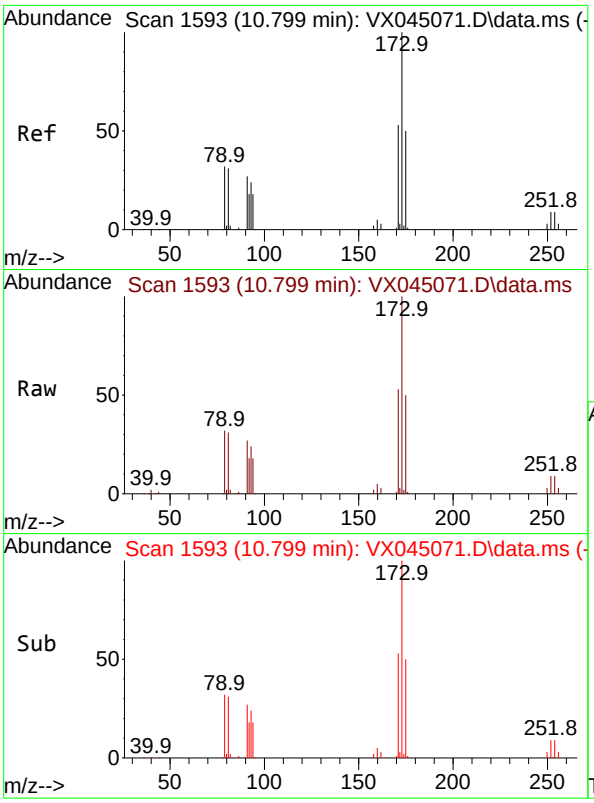


#70
Styrene
Concen: 52.387 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:104 Resp: 191406

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.8	43.8	65.8



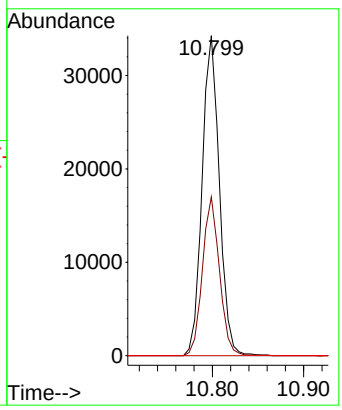


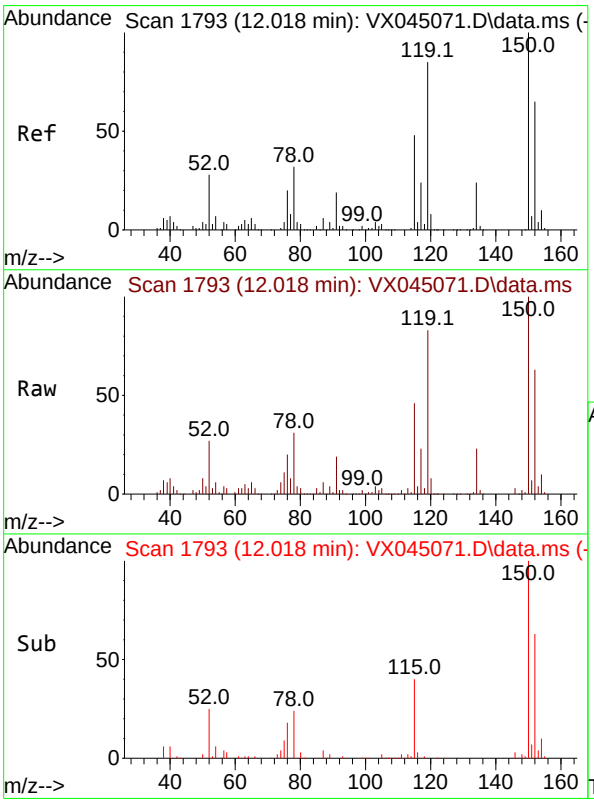
#71
Bromoform
Concen: 53.645 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 44730

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.6	73.6
254	0.0	0.0	0.0

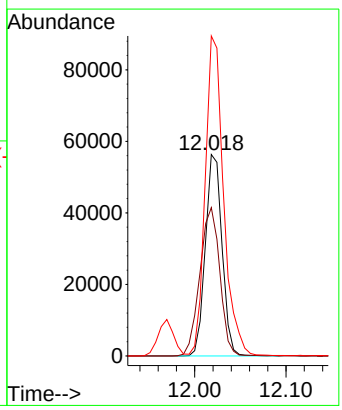


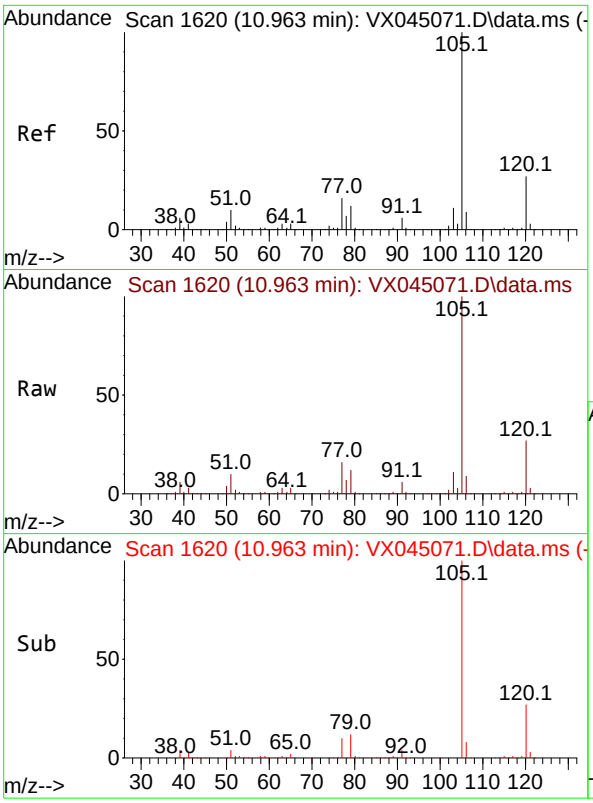


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:152 Resp: 71264

Ion	Ratio	Lower	Upper
152	100		
115	88.4	44.2	132.6
150	174.5	0.0	349.0



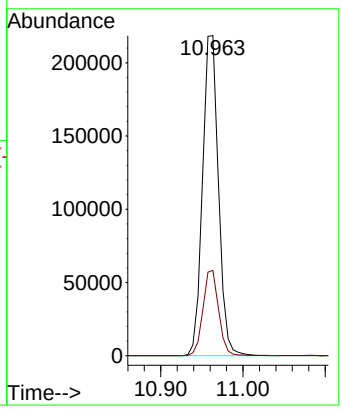


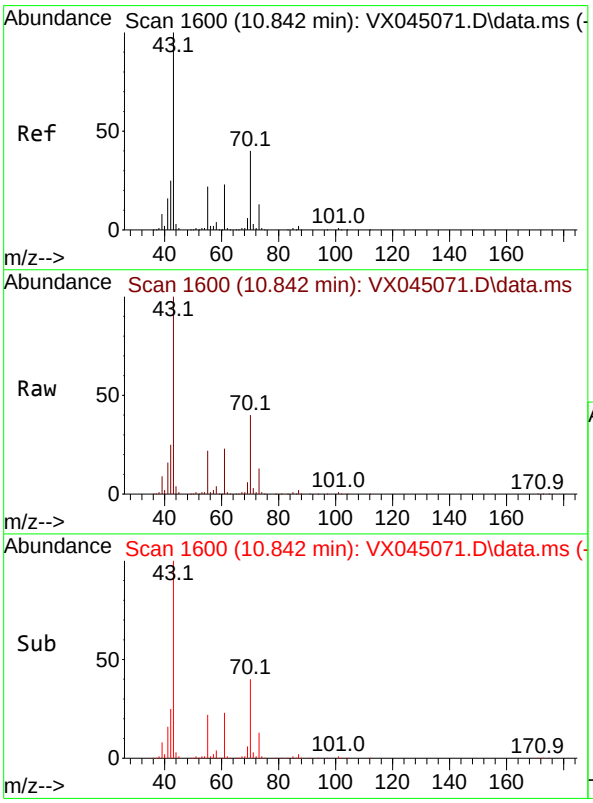
#73
Isopropylbenzene
Concen: 51.167 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 294694

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

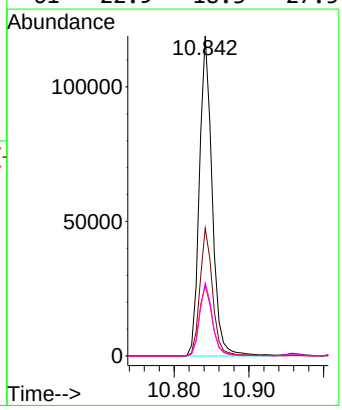


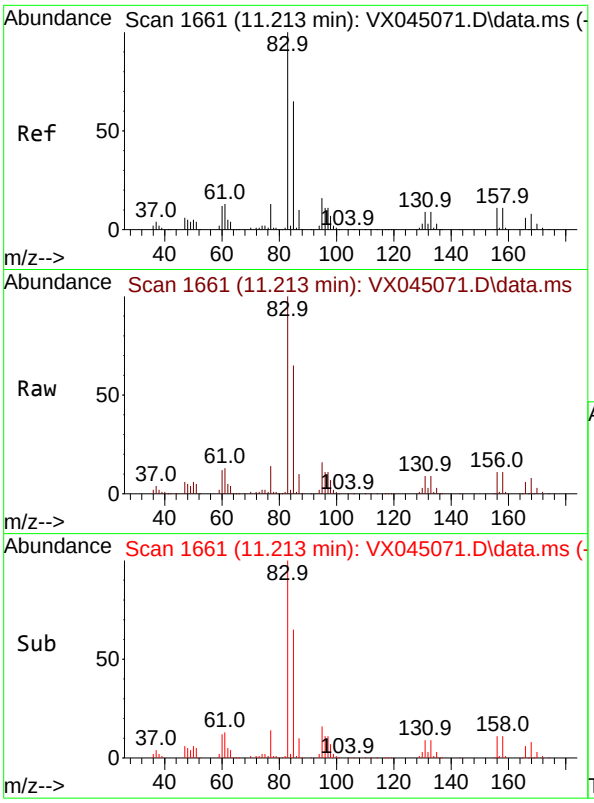


#74
N-amyl acetate
Concen: 53.881 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 140869

Ion	Ratio	Lower	Upper
43	100		
70	39.7	31.8	47.6
55	22.9	18.3	27.5
61	22.9	18.3	27.5



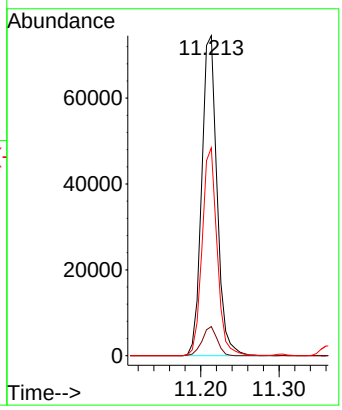


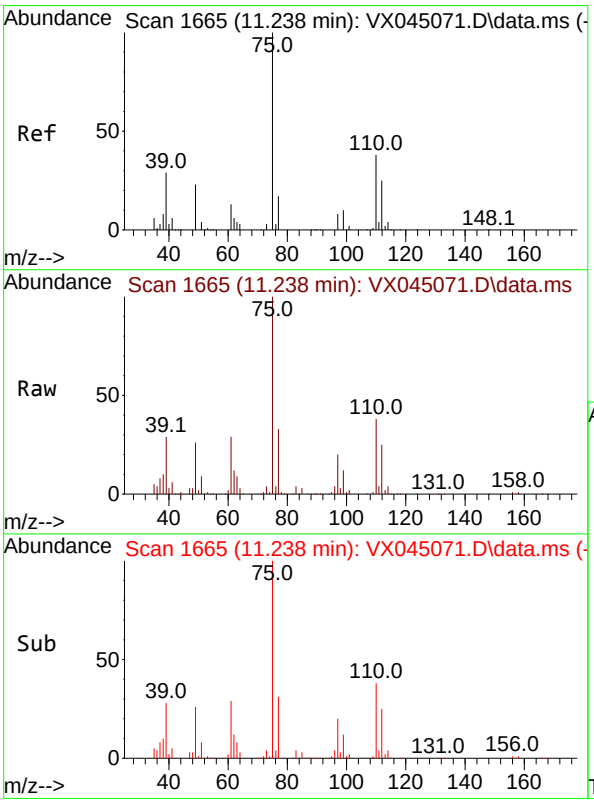
#75
1,1,2,2-Tetrachloroethane
Concen: 50.945 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 101089

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.4
85	63.4	31.7	95.1

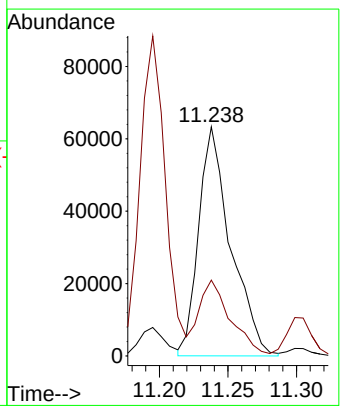


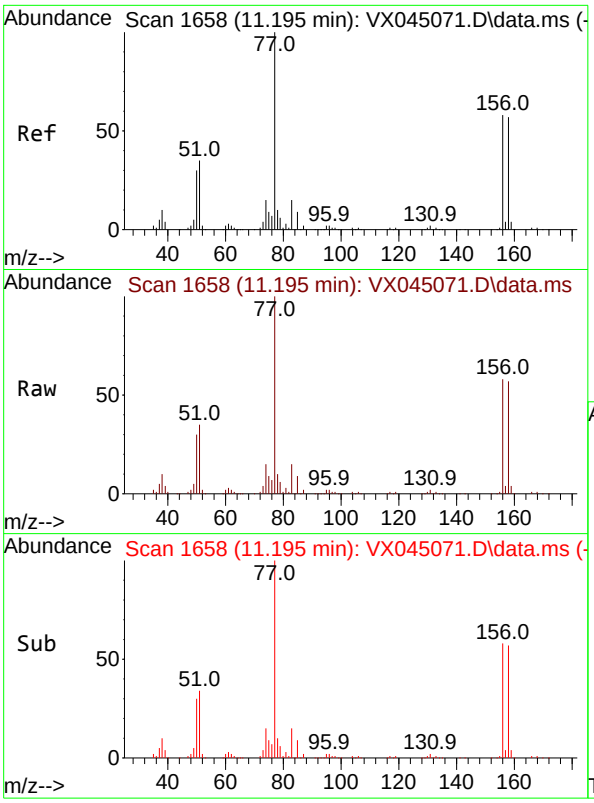


#76
1,2,3-Trichloropropane
Concen: 64.894 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 103161

Ion	Ratio	Lower	Upper
75	100		
77	32.8	20.7	62.1



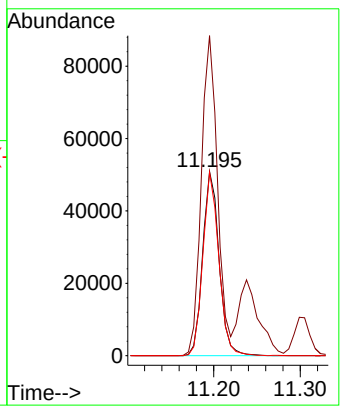


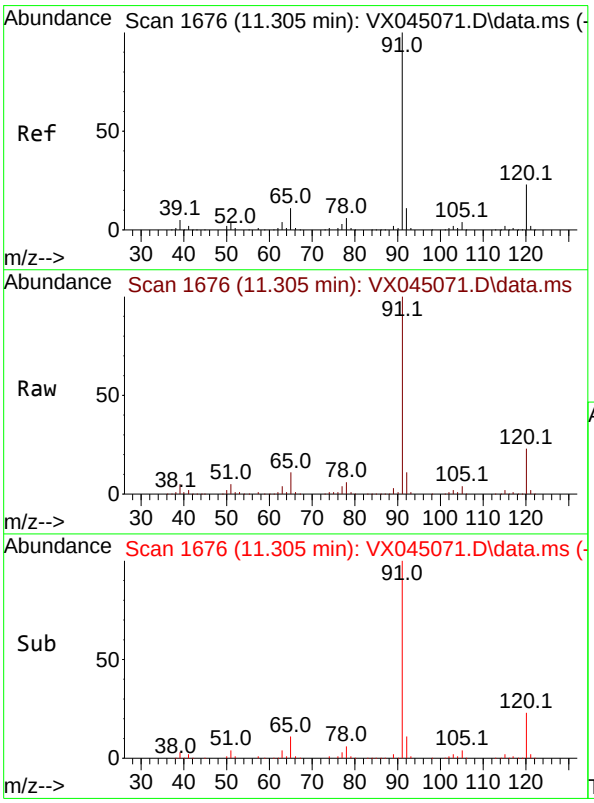
#77
Bromobenzene
Concen: 51.173 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 66904

Ion	Ratio	Lower	Upper
156	100		
77	171.6	85.8	257.4
158	96.8	48.4	145.2

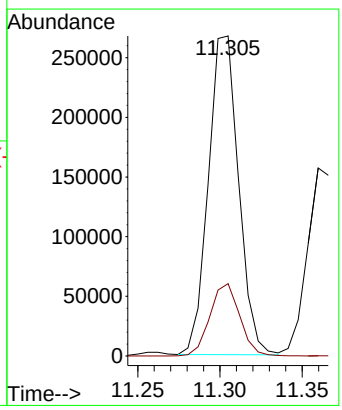


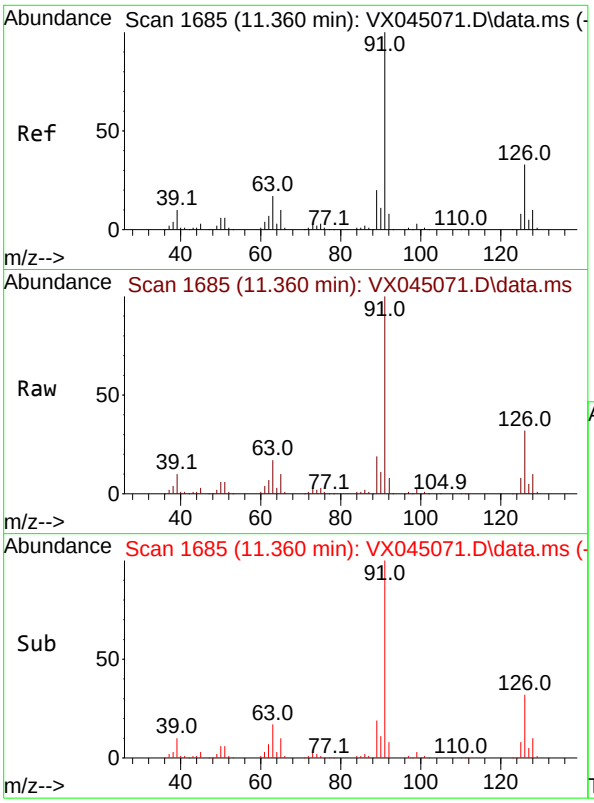


#78
n-propylbenzene
Concen: 51.546 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 342399

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.2	33.6



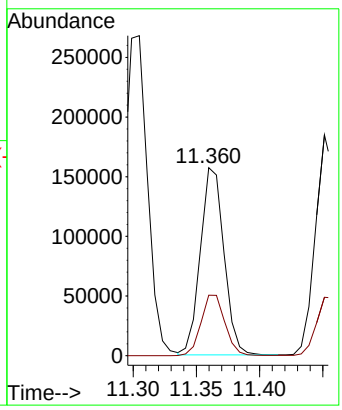


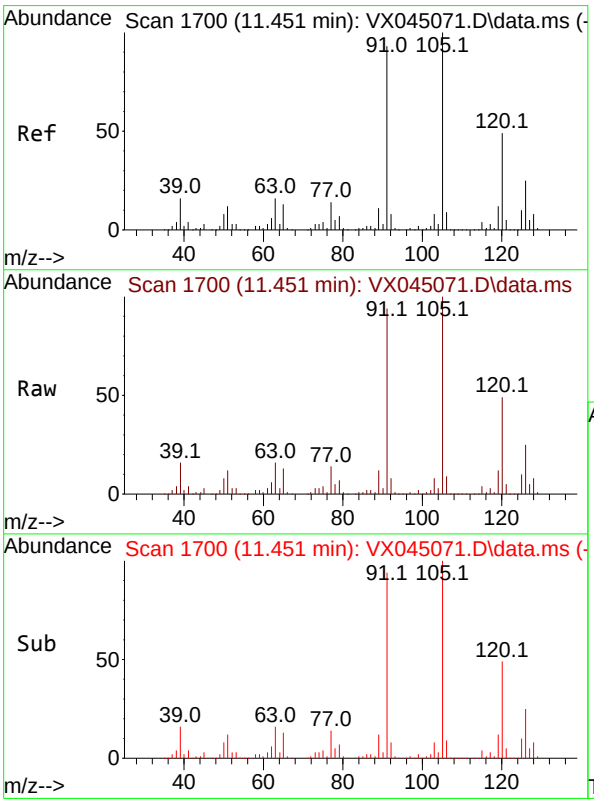
#79
2-Chlorotoluene
Concen: 50.154 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 204484

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4

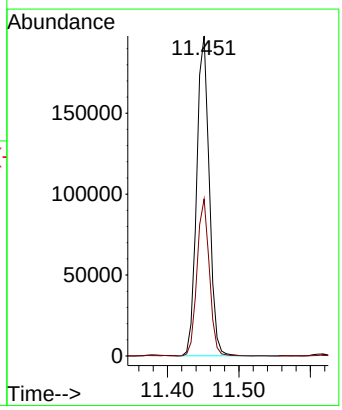


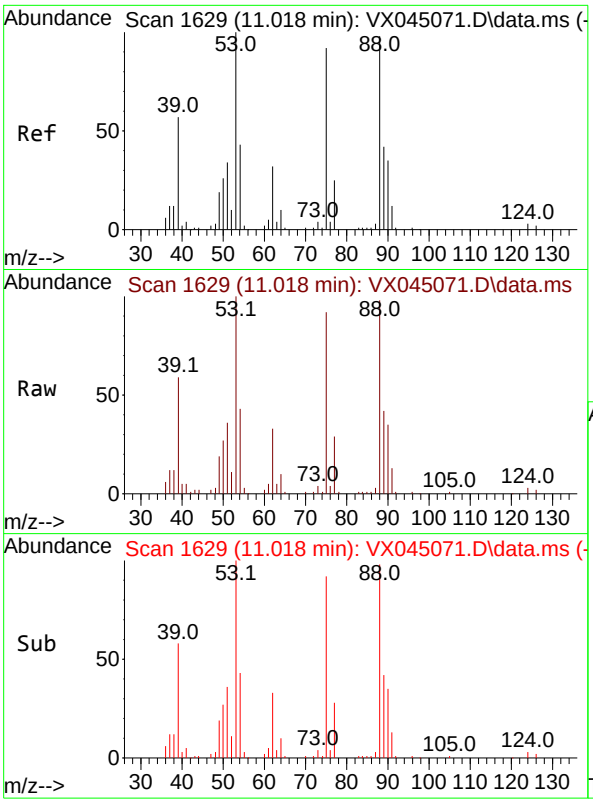


#80
1,3,5-Trimethylbenzene
Concen: 51.613 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 241129

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.1	72.2



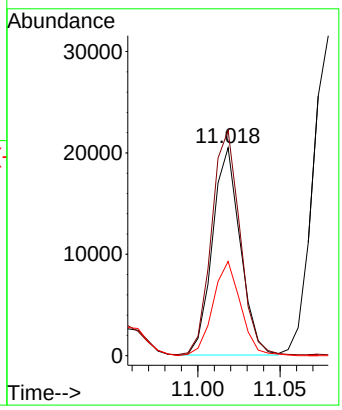


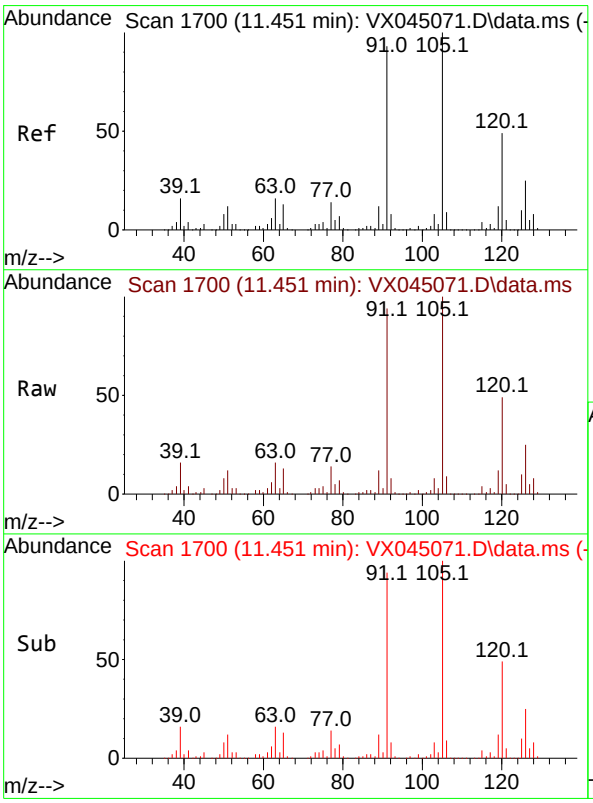
#81
trans-1,4-Dichloro-2-butene
Concen: 41.172 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 24135

Ion	Ratio	Lower	Upper
75	100		
53	110.6	88.5	132.7
89	45.3	36.2	54.4

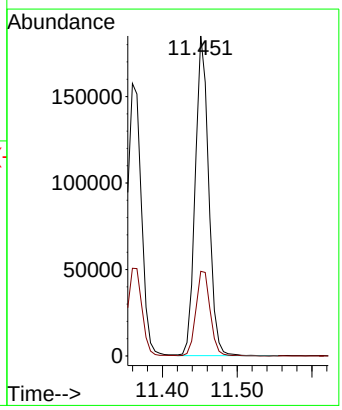


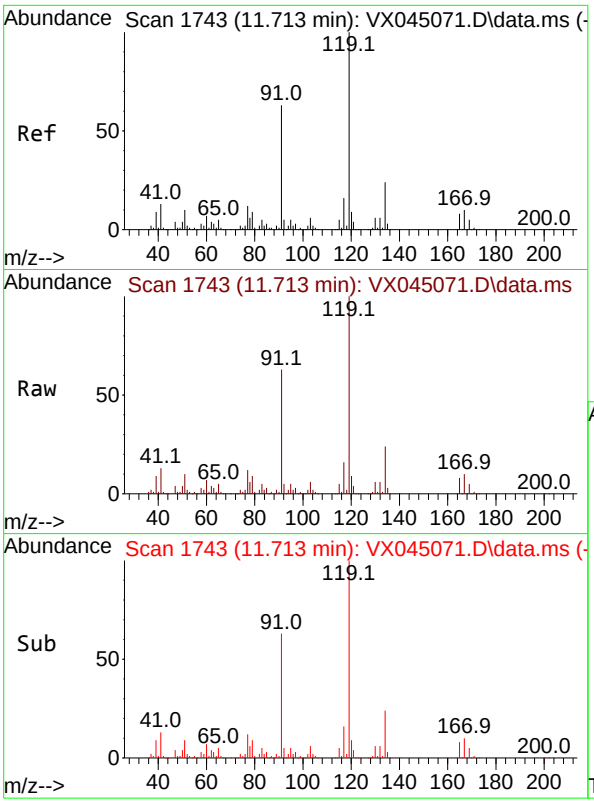


#82
4-Chlorotoluene
Concen: 51.072 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 230493

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.1	42.4



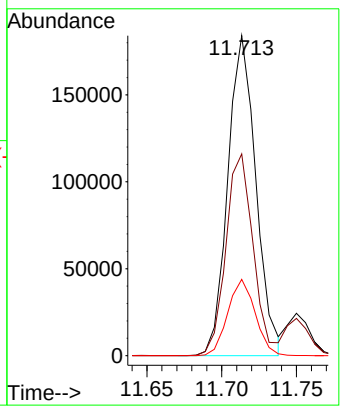


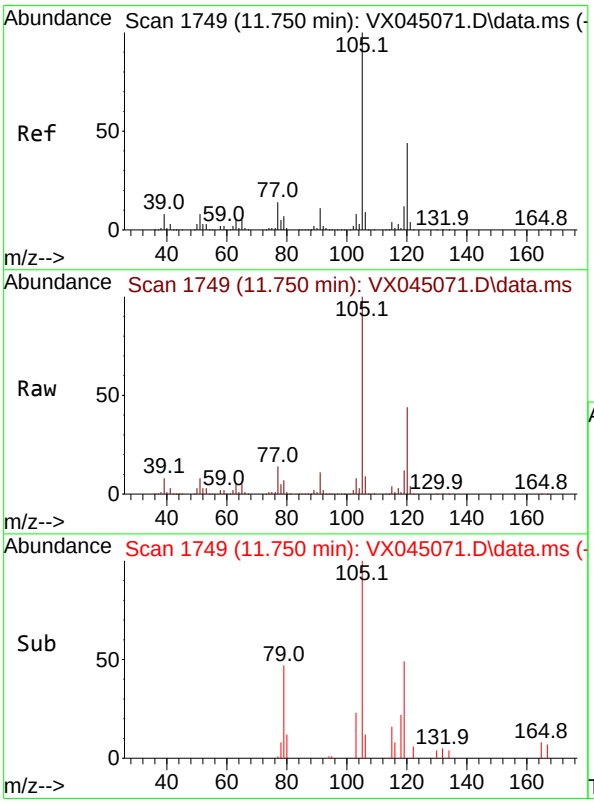
#83
tert-Butylbenzene
Concen: 50.895 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 240510

Ion	Ratio	Lower	Upper
119	100		
91	61.4	30.7	92.1
134	23.3	11.7	35.0

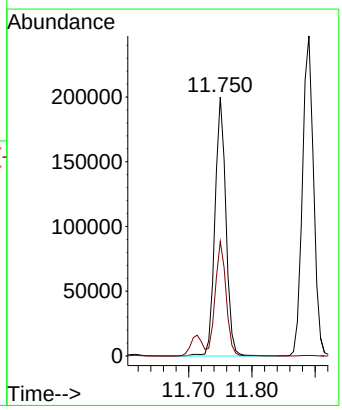


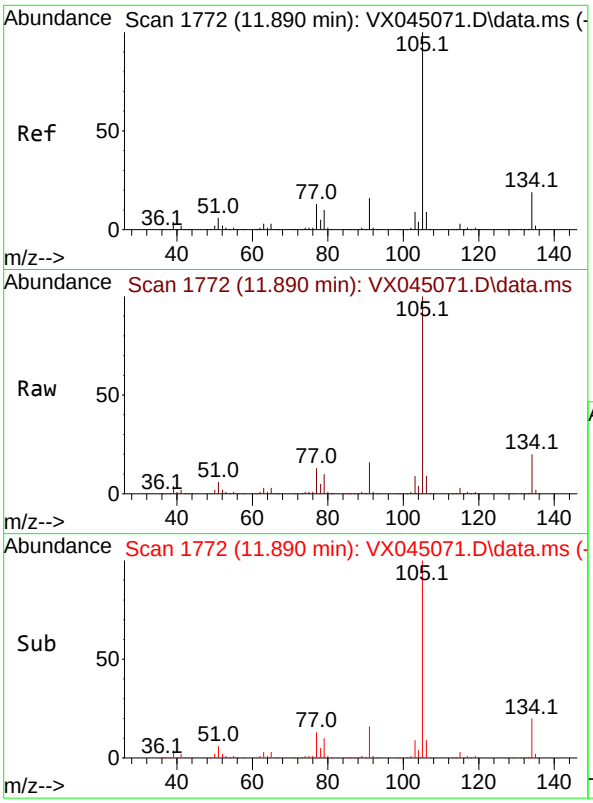


#84
1,2,4-Trimethylbenzene
Concen: 52.326 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 240719

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



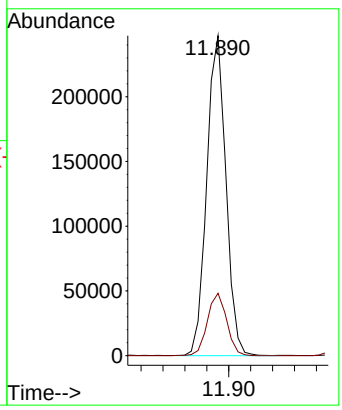


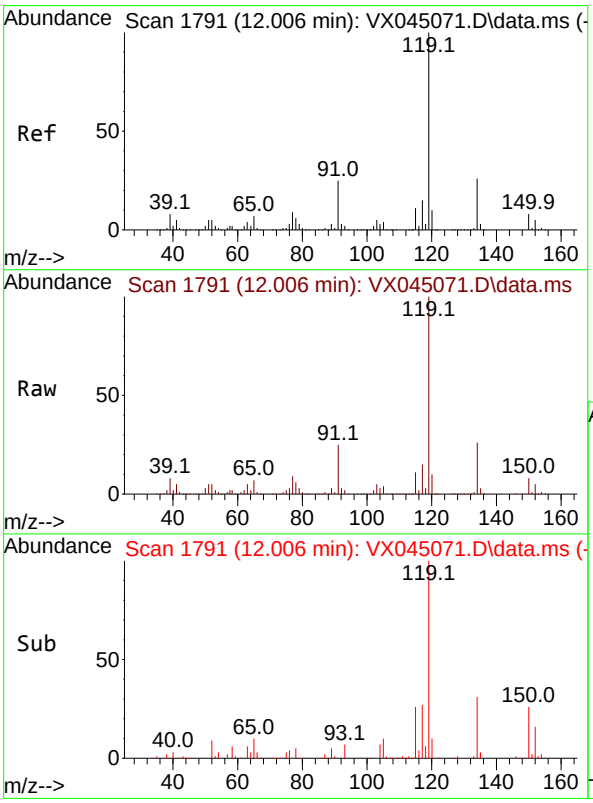
#85
sec-Butylbenzene
Concen: 51.353 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 300393

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

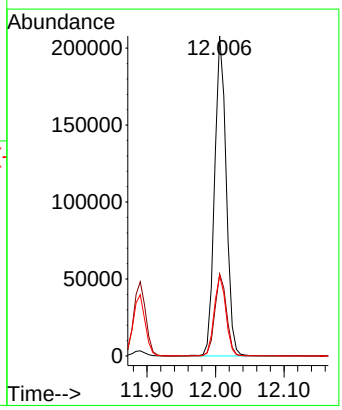


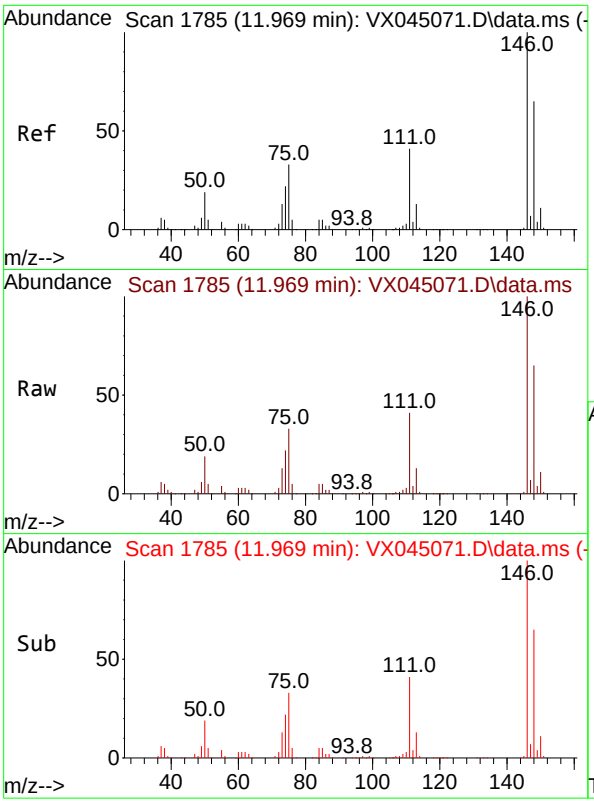


#86
p-Isopropyltoluene
Concen: 51.964 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:119 Resp: 244031

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	25.3	12.7	38.0



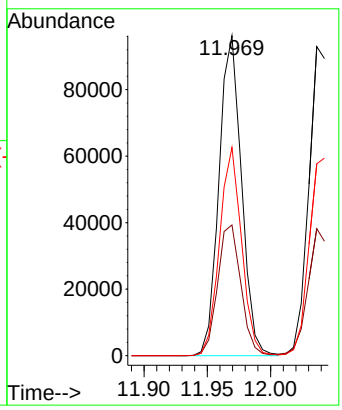


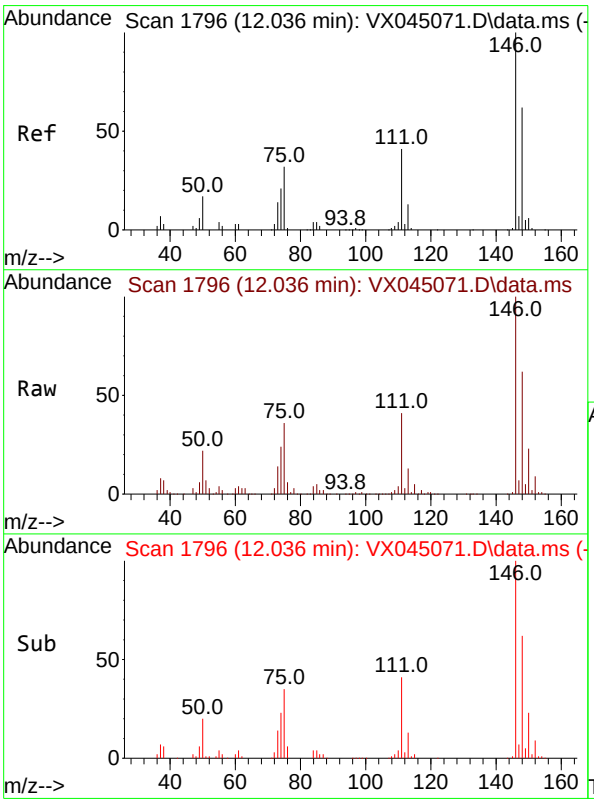
#87
1,3-Dichlorobenzene
Concen: 49.747 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 118879

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.1	63.4
148	63.8	31.9	95.7

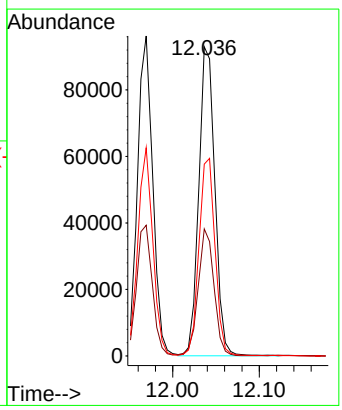


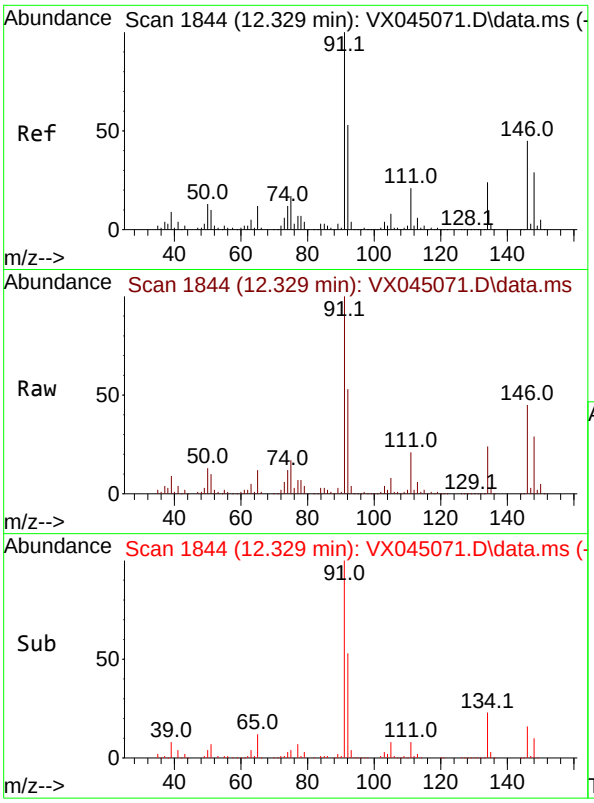


#88
1,4-Dichlorobenzene
Concen: 49.694 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:146 Resp: 120217

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.2	60.5
148	63.9	31.9	95.9



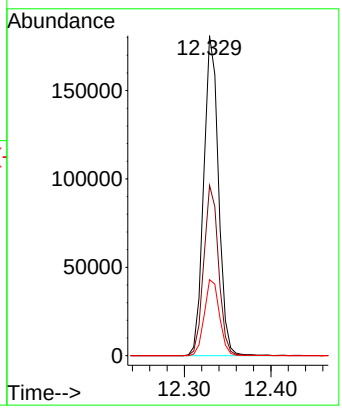


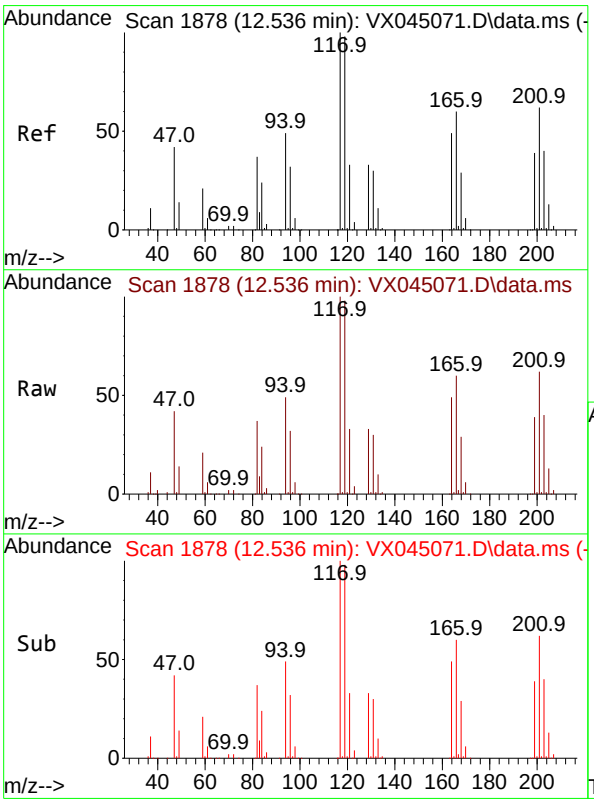
#89
n-Butylbenzene
Concen: 52.006 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 214685

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.7	80.0
134	24.4	12.2	36.6

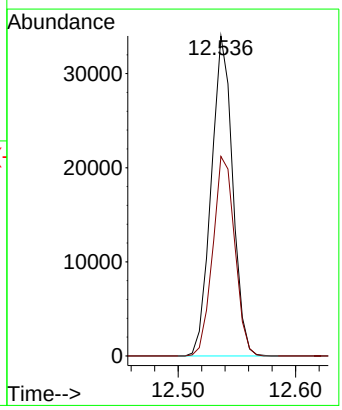


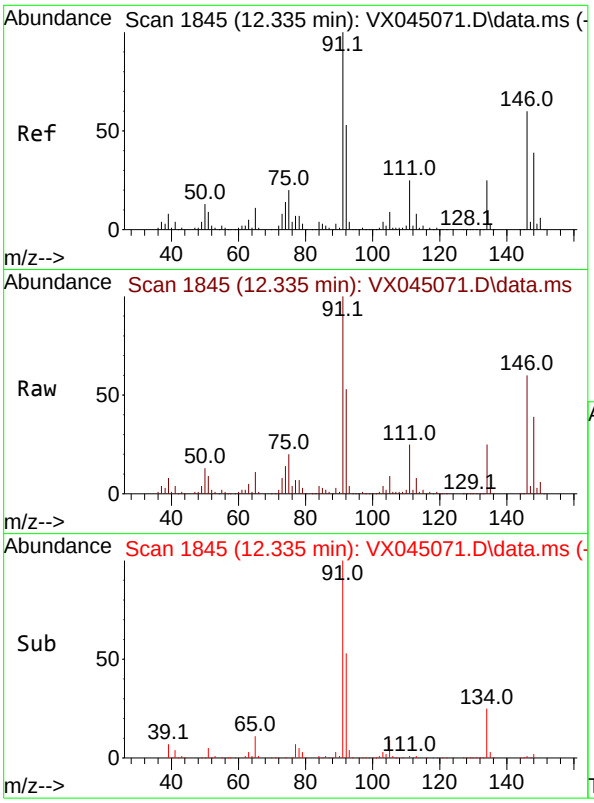


#90
Hexachloroethane
Concen: 49.188 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:117 Resp: 43086

Ion	Ratio	Lower	Upper
117	100		
201	63.9	31.9	95.9



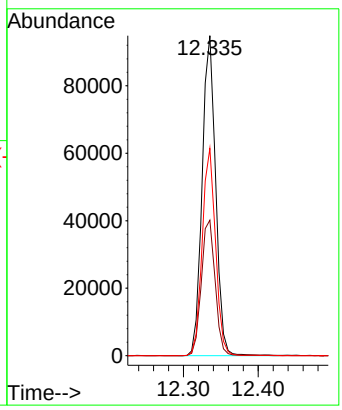


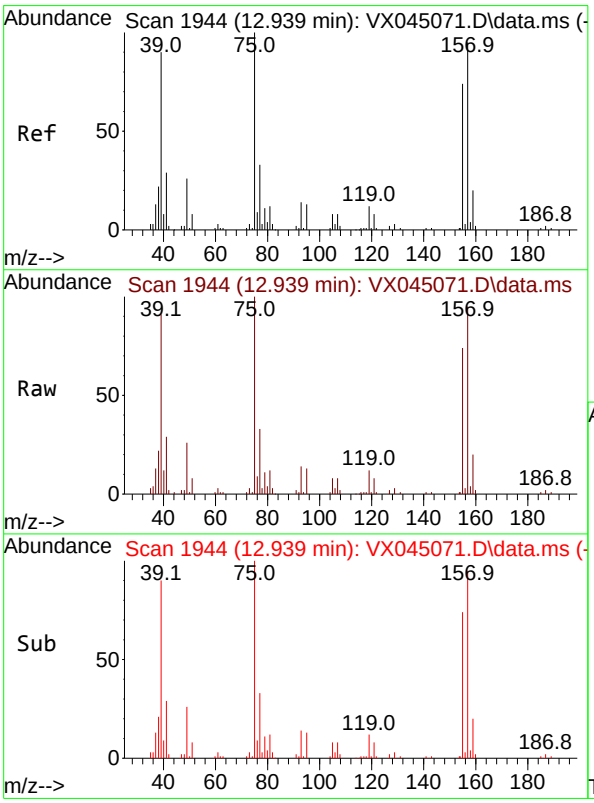
#91
1,2-Dichlorobenzene
Concen: 50.557 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 118896

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	65.0
148	63.9	31.9	95.9

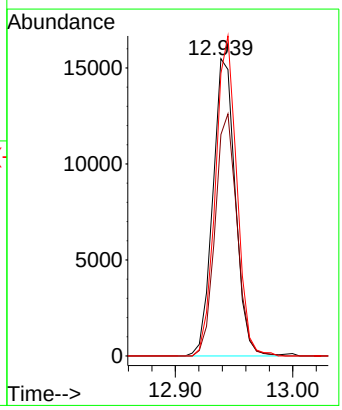


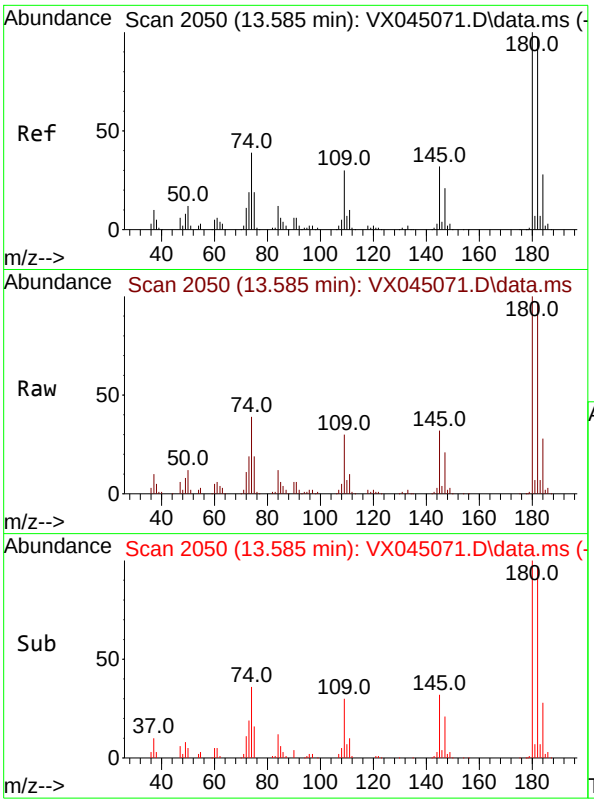


#92
1,2-Dibromo-3-Chloropropane
Concen: 56.123 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 20610

Ion	Ratio	Lower	Upper
75	100		
155	79.1	39.6	118.7
157	102.3	51.1	153.4



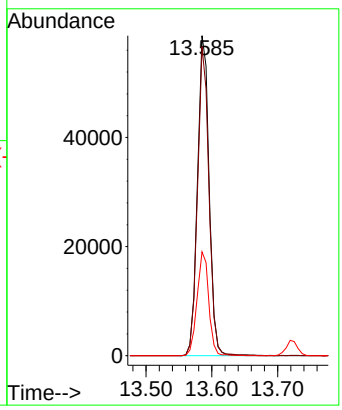


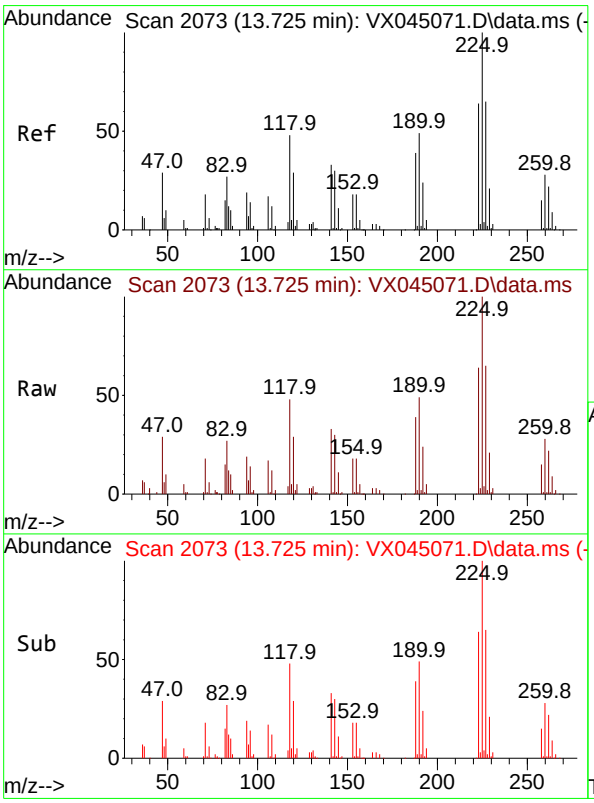
#93
1,2,4-Trichlorobenzene
Concen: 50.571 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 71897

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.3	141.9
145	32.6	16.3	48.9

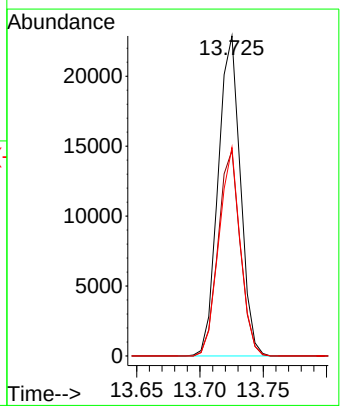


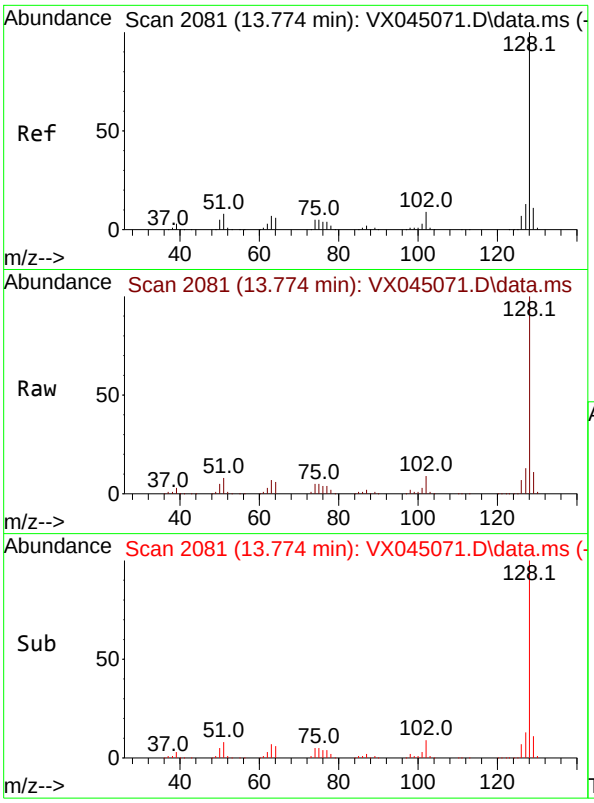


#94
Hexachlorobutadiene
Concen: 49.245 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:225 Resp: 27916

Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.9	95.7
227	62.7	31.4	94.0



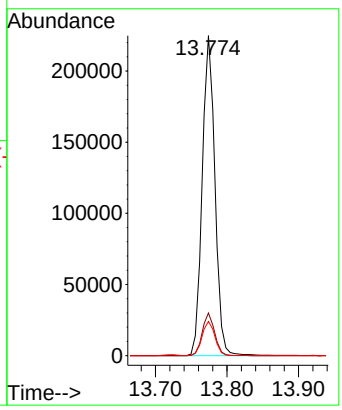


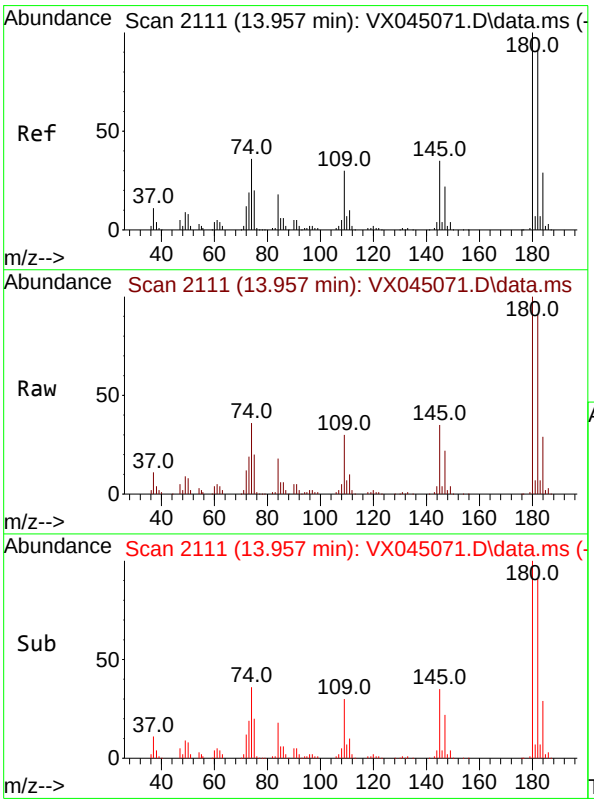
#95
Naphthalene
Concen: 53.700 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 278086

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.7	13.1

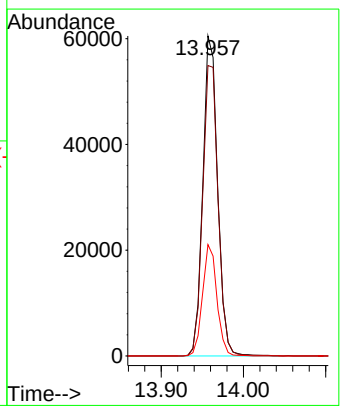




#96
1,2,3-Trichlorobenzene
Concen: 52.406 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:180 Resp: 75482

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.6
145	33.9	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	101178	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	181031	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	151175	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69086	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	158452	106.011	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 212.020%#			
35) Dibromofluoromethane	5.385	113	123185	104.110	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 208.220%#			
50) Toluene-d8	8.647	98	441188	99.595	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 199.200%#			
62) 4-Bromofluorobenzene	11.079	95	148476	100.365	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	126718	90.869	ug/l	95
3) Chloromethane	1.306	50	145825	85.936	ug/l	98
4) Vinyl Chloride	1.373	62	154734	93.360	ug/l	96
5) Bromomethane	1.593	94	57503	110.980	ug/l	97
6) Chloroethane	1.660	64	60155	95.351	ug/l	97
7) Trichlorofluoromethane	1.861	101	198701	93.594	ug/l	99
8) Diethyl Ether	2.135	74	78263	101.441	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	120518	95.064	ug/l	98
10) Methyl Iodide	2.440	142	153466	94.425	ug/l	99
11) Tert butyl alcohol	3.001	59	135016	493.141	ug/l	98
12) 1,1-Dichloroethene	2.306	96	125436	96.366	ug/l	98
13) Acrolein	2.239	56	180411	608.485	ug/l	99
14) Allyl chloride	2.654	41	220783	94.344	ug/l	98
15) Acrylonitrile	3.068	53	391946	526.749	ug/l	100
16) Acetone	2.392	43	348698	566.991	ug/l	99
17) Carbon Disulfide	2.495	76	345572	97.574	ug/l	98
18) Methyl Acetate	2.709	43	175784	94.899	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	431413	103.661	ug/l	100
20) Methylene Chloride	2.782	84	140388	96.381	ug/l	98
21) trans-1,2-Dichloroethene	3.080	96	128232	100.164	ug/l	98
22) Diisopropyl ether	3.763	45	467534	104.489	ug/l	98
23) Vinyl Acetate	3.721	43	2035880	554.219	ug/l	99
24) 1,1-Dichloroethane	3.605	63	257023	102.805	ug/l	100
25) 2-Butanone	4.562	43	559182	563.952	ug/l	99
26) 2,2-Dichloropropane	4.470	77	124805	67.148	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	155193	100.568	ug/l	99
28) Bromochloromethane	4.897	49	113848	94.428	ug/l	98
29) Tetrahydrofuran	5.007	42	365565	556.465	ug/l	100
30) Chloroform	5.092	83	248978	101.814	ug/l	97
31) Cyclohexane	5.464	56	231082	100.711	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	211302	102.638	ug/l	99
36) 1,1-Dichloropropene	5.690	75	172295	101.258	ug/l	99
37) Ethyl Acetate	4.720	43	220327	113.796	ug/l	99
38) Carbon Tetrachloride	5.671	117	177219	105.940	ug/l	97
39) Methylcyclohexane	7.372	83	219856	101.175	ug/l	99
40) Benzene	6.031	78	541974	101.908	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	120186	116.205 ug/l		98
42) 1,2-Dichloroethane	6.086	62	189857	110.158 ug/l		99
43) Isopropyl Acetate	6.342	43	338414	109.806 ug/l		99
44) Trichloroethene	7.122	130	128124	105.402 ug/l		96
45) 1,2-Dichloropropane	7.427	63	135997	102.898 ug/l		100
46) Dibromomethane	7.580	93	97248	105.329 ug/l		99
47) Bromodichloromethane	7.817	83	191016	106.947 ug/l		97
48) Methyl methacrylate	7.695	41	165825	113.344 ug/l		99
49) 1,4-Dioxane	7.665	88	66308	2132.314 ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	1048140	555.050 ug/l		99
52) Toluene	8.714	92	316349	100.178 ug/l		100
53) t-1,3-Dichloropropene	8.976	75	177352	100.462 ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	200943	101.815 ug/l		98
55) 1,1,2-Trichloroethane	9.146	97	123426	100.920 ug/l		99
56) Ethyl methacrylate	9.116	69	208782	106.744 ug/l		100
57) 1,3-Dichloropropane	9.305	76	216267	101.387 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	494551	514.987 ug/l		99
59) 2-Hexanone	9.433	43	779492	572.233 ug/l		99
60) Dibromochloromethane	9.518	129	139245	106.719 ug/l		99
61) 1,2-Dibromoethane	9.610	107	128617	104.259 ug/l		99
64) Tetrachloroethene	9.268	164	99386	103.491 ug/l		98
65) Chlorobenzene	10.079	112	332473	102.456 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	112451	107.511 ug/l		96
67) Ethyl Benzene	10.189	91	596257	103.905 ug/l		100
68) m/p-Xylenes	10.299	106	432214	204.507 ug/l		99
69) o-Xylene	10.640	106	213835	100.849 ug/l		99
70) Styrene	10.652	104	357649	104.948 ug/l		99
71) Bromoform	10.799	173	90800	116.751 ug/l	#	99
73) Isopropylbenzene	10.963	105	553533	99.138 ug/l		99
74) N-amyl acetate	10.841	43	287104	113.277 ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	192217	99.923 ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	203020	131.738 ug/l		86
77) Bromobenzene	11.195	156	125700	99.175 ug/l		97
78) n-propylbenzene	11.305	91	648835	100.758 ug/l		99
79) 2-Chlorotoluene	11.359	91	382703	96.825 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	445466	98.356 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	51975	91.460 ug/l		99
82) 4-Chlorotoluene	11.451	91	433881	99.168 ug/l		100
83) tert-Butylbenzene	11.713	119	454859	99.288 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	450108	100.926 ug/l		99
85) sec-Butylbenzene	11.890	105	570006	100.517 ug/l		100
86) p-Isopropyltoluene	12.006	119	465512	102.252 ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	231440	99.903 ug/l		100
88) 1,4-Dichlorobenzene	12.042	146	230663	98.355 ug/l		99
89) n-Butylbenzene	12.329	91	428209	107.000 ug/l		99
90) Hexachloroethane	12.536	117	87448	102.980 ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	233125	102.254 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	41402	116.296 ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	148368	107.648 ug/l		99
94) Hexachlorobutadiene	13.725	225	56065	102.019 ug/l		99
95) Naphthalene	13.774	128	565250	112.593 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	152970	109.554 ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

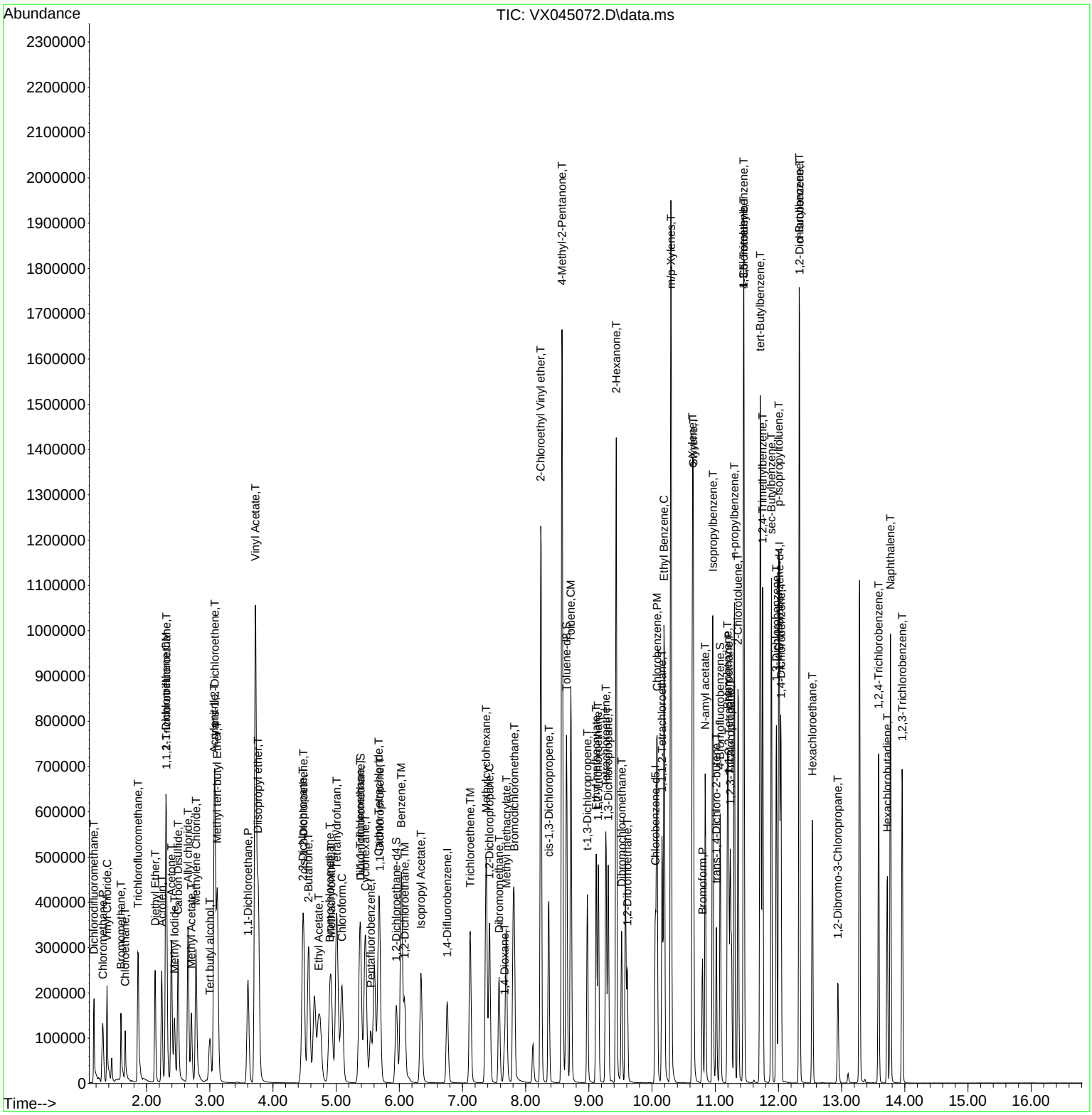
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

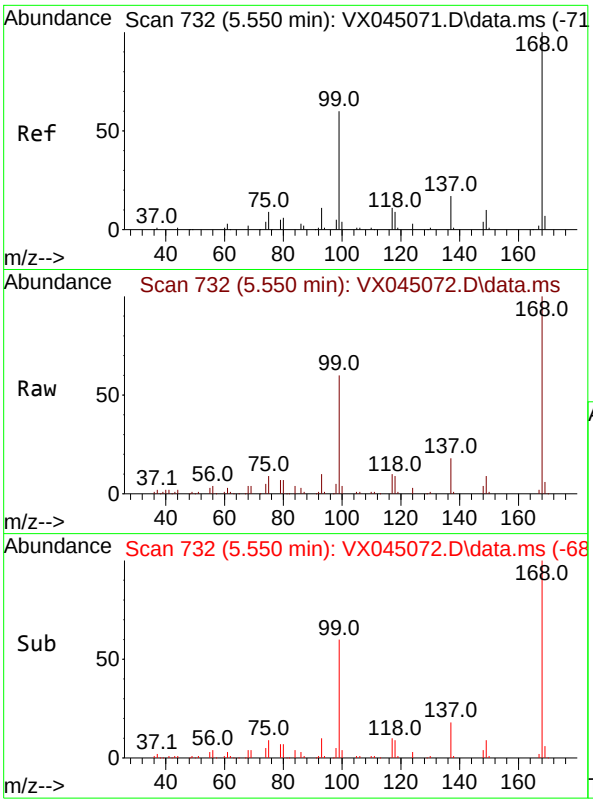
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration



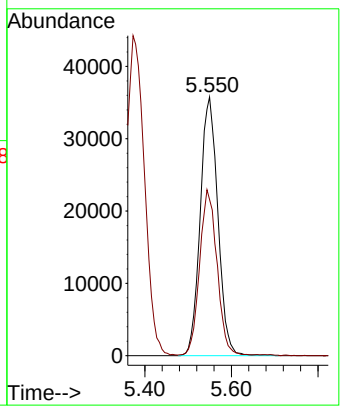


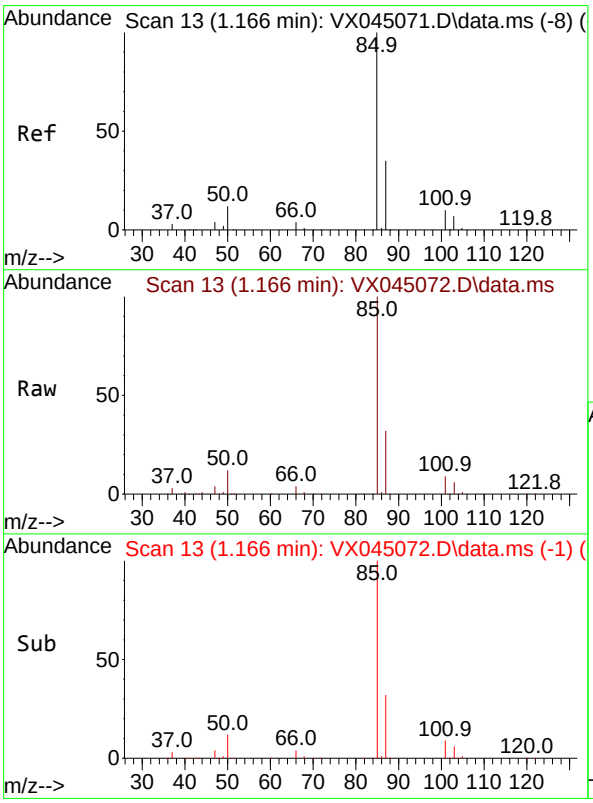
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 101178

Ion	Ratio	Lower	Upper
168	100		
99	60.2	48.2	72.4

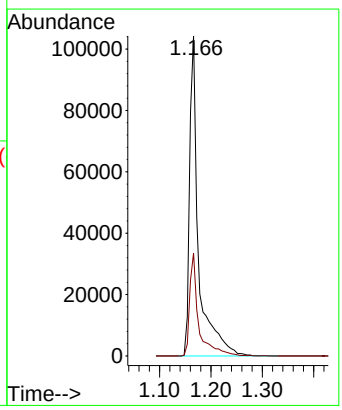


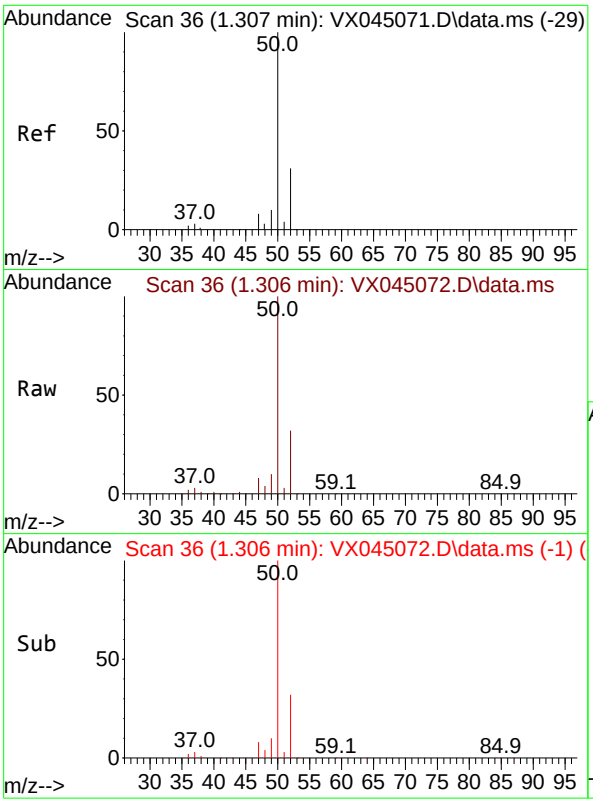


#2
Dichlorodifluoromethane
Concen: 90.869 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 85 Resp: 126718

Ion	Ratio	Lower	Upper
85	100		
87	32.1	17.4	52.3



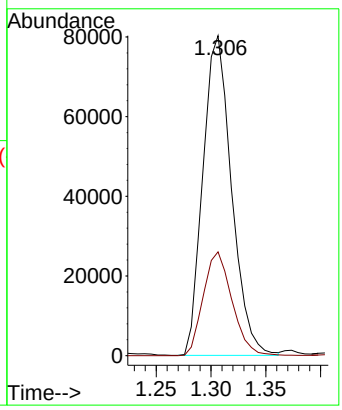


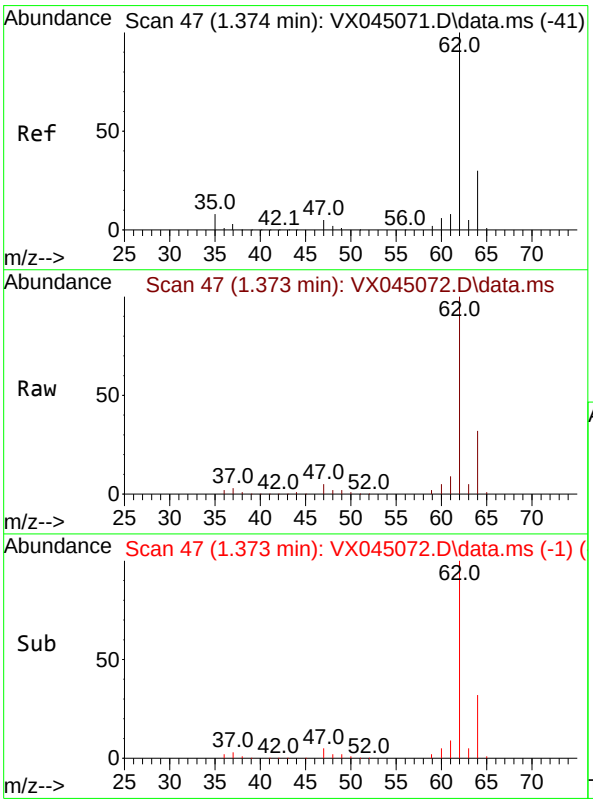
#3
Chloromethane
Concen: 85.936 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 145825

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.0	37.4

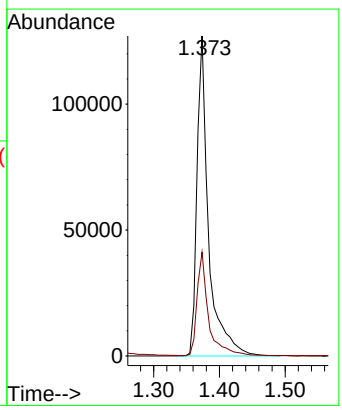


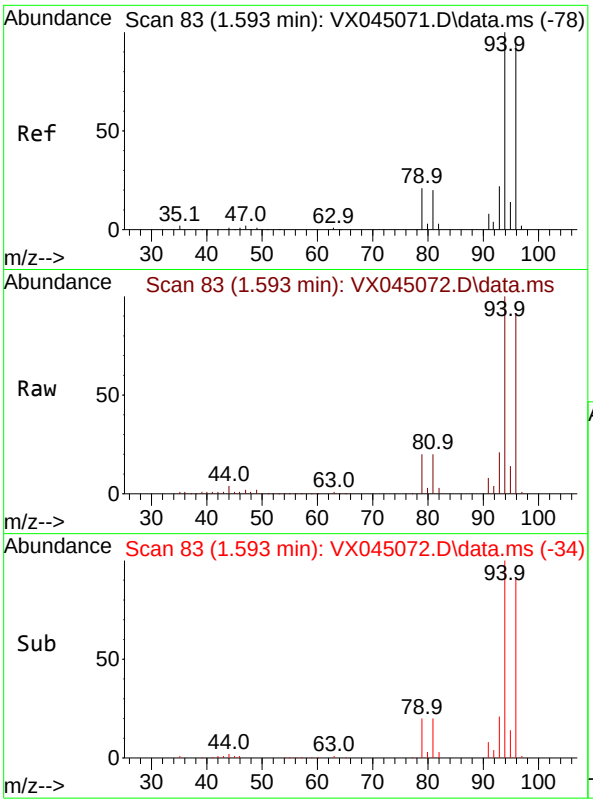


#4
Vinyl Chloride
Concen: 93.360 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 154734

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.3	36.5



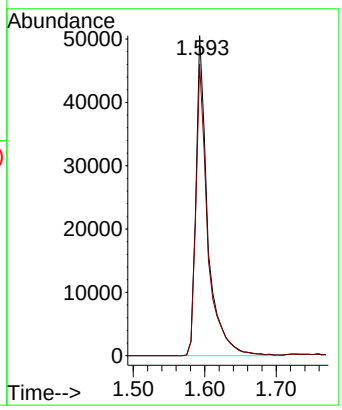


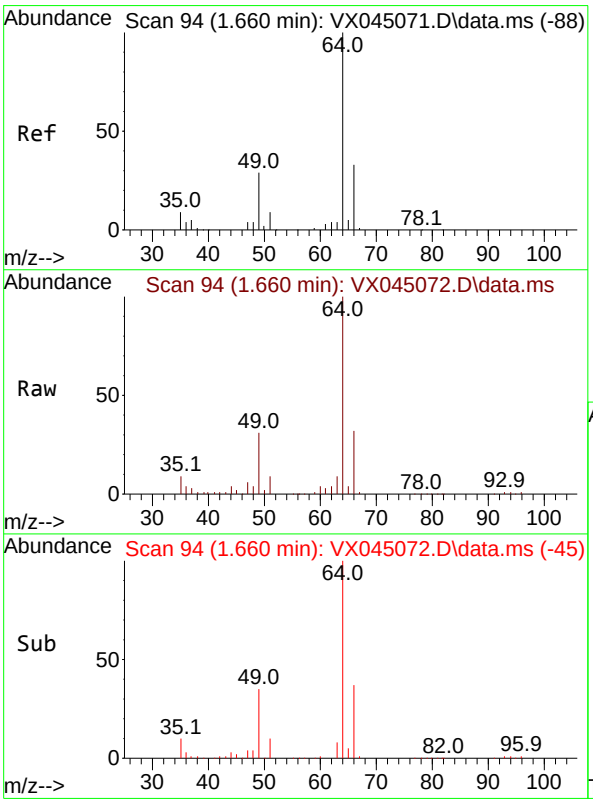
#5
Bromomethane
Concen: 110.980 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 57503

Ion	Ratio	Lower	Upper
94	100		
96	91.2	75.0	112.4

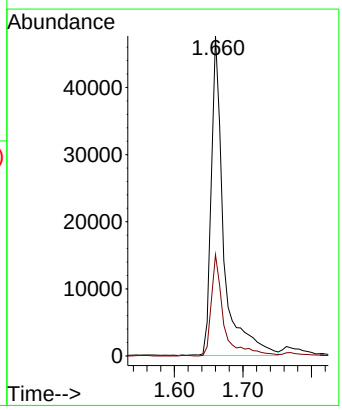


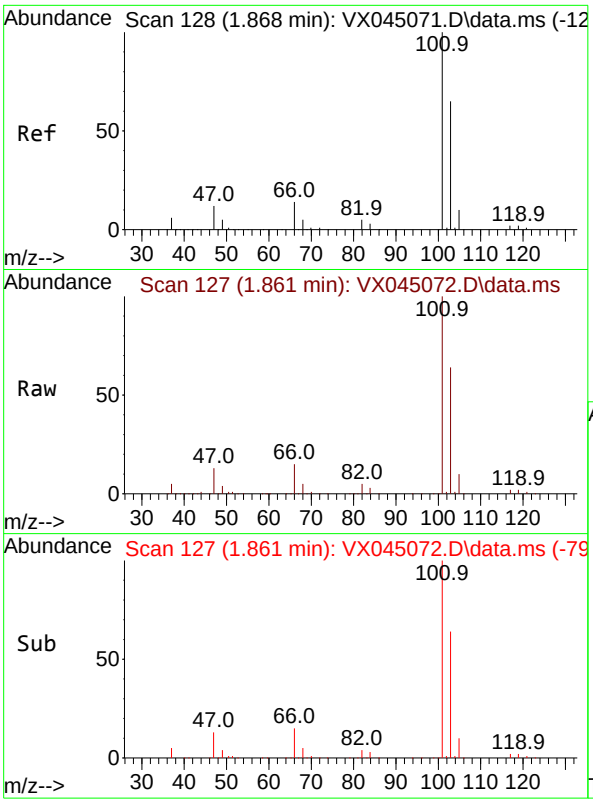


#6
Chloroethane
Concen: 95.351 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 64 Resp: 60155

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.7	40.1



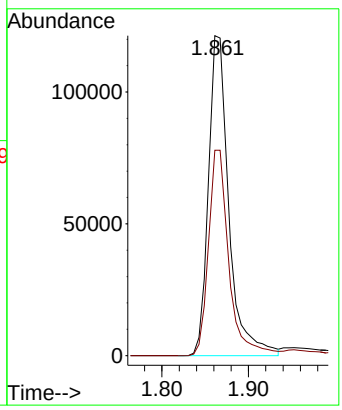


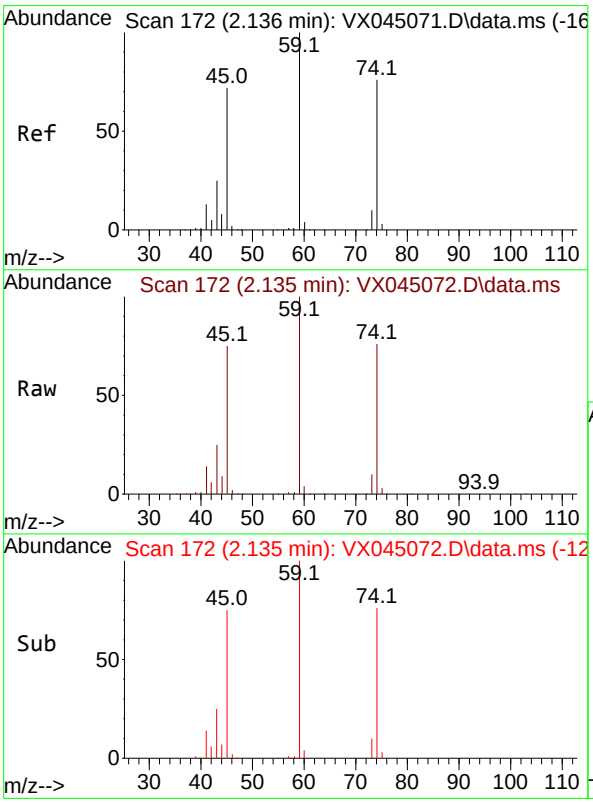
#7
Trichlorofluoromethane
Concen: 93.594 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 198701

Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.1	78.1

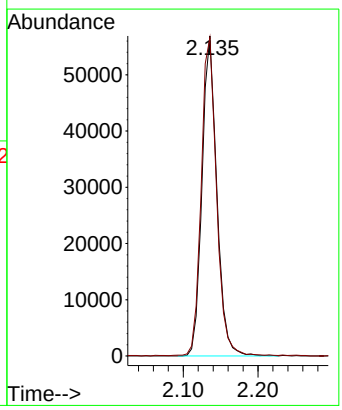


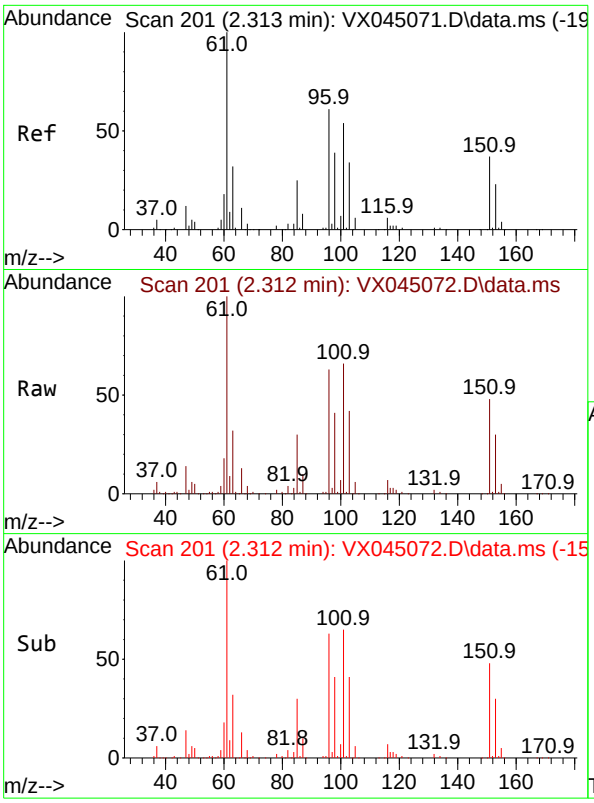


#8
Diethyl Ether
Concen: 101.441 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 74 Resp: 78263

Ion	Ratio	Lower	Upper
74	100		
45	102.7	51.5	154.5



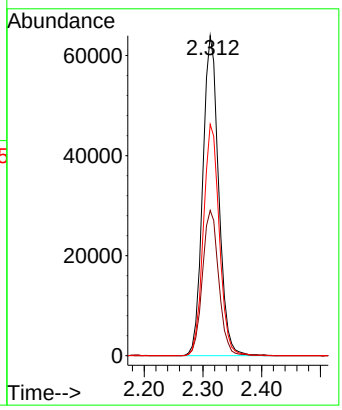


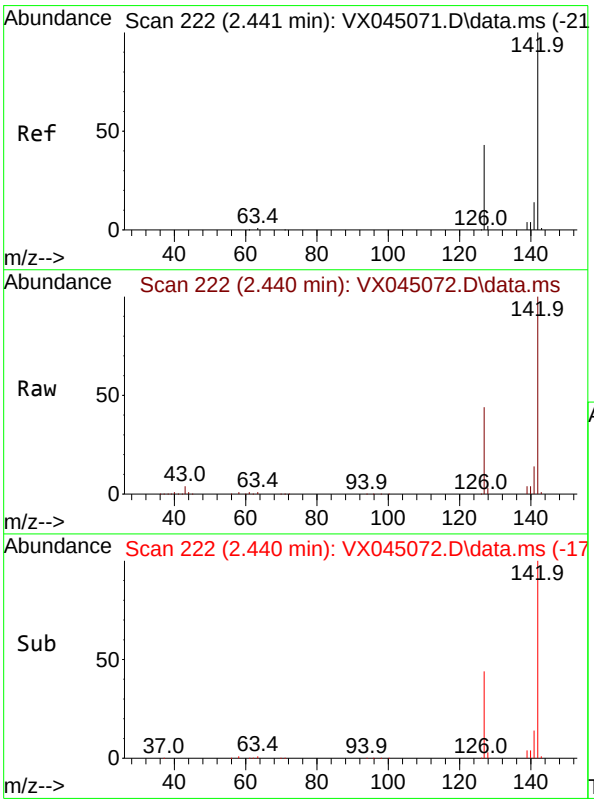
#9
1,1,2-Trichlorotrifluoroethane
Concen: 95.064 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 120518

Ion	Ratio	Lower	Upper
101	100		
85	46.5	36.2	54.4
151	72.4	56.4	84.6

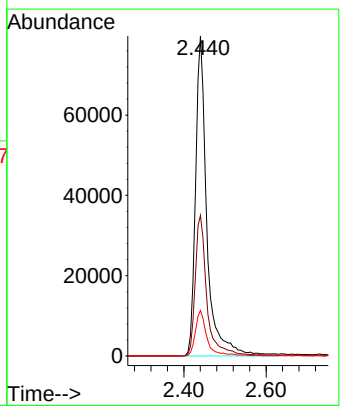


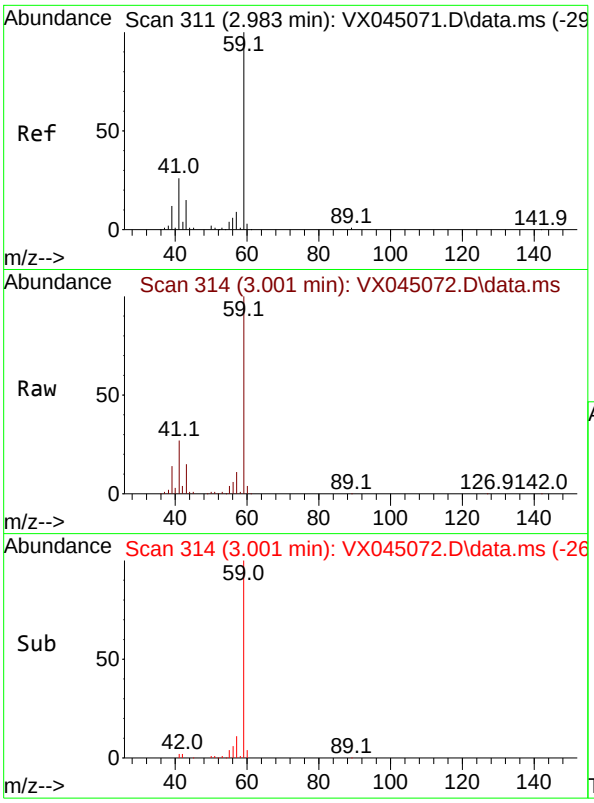


#10
Methyl Iodide
Concen: 94.425 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:142 Resp: 153466

Ion	Ratio	Lower	Upper
142	100		
127	45.0	35.4	53.2
141	14.4	11.6	17.4



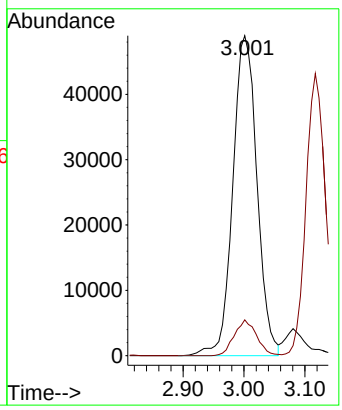


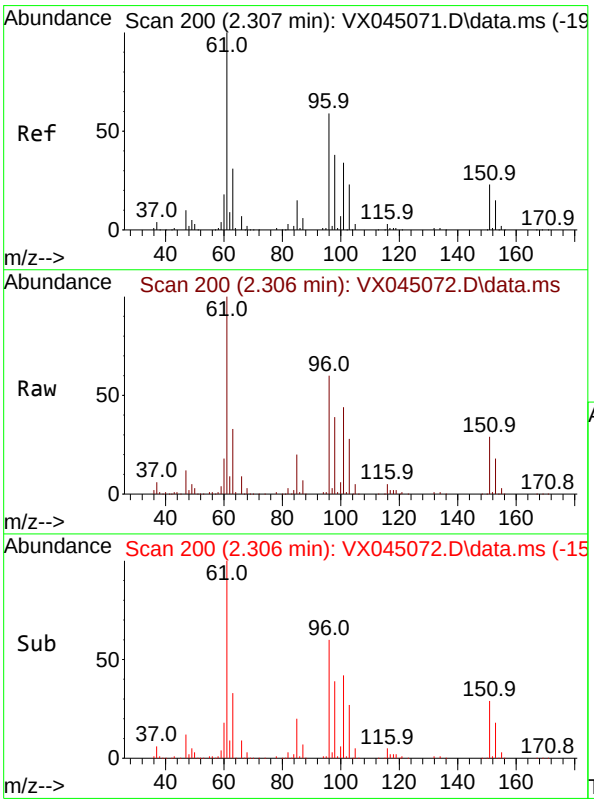
#11
Tert butyl alcohol
Concen: 493.141 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 135016

Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8

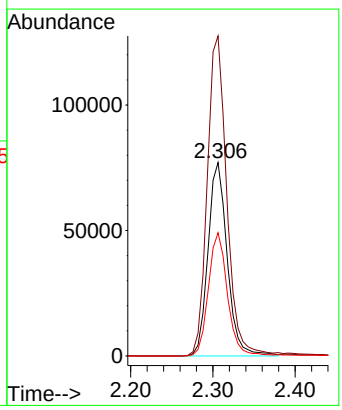


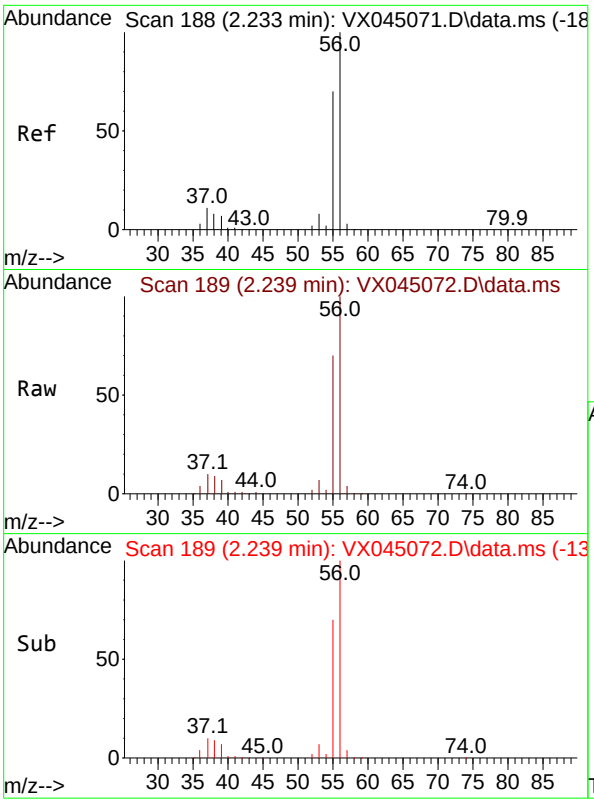


#12
1,1-Dichloroethene
Concen: 96.366 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 96 Resp: 125436

Ion	Ratio	Lower	Upper
96	100		
61	165.4	134.6	202.0
98	63.7	51.0	76.6



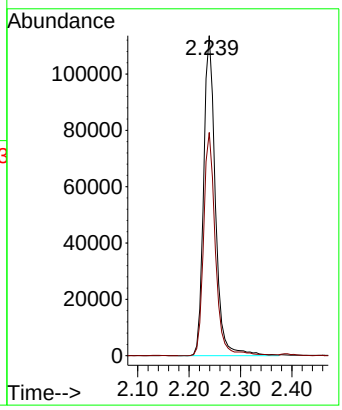


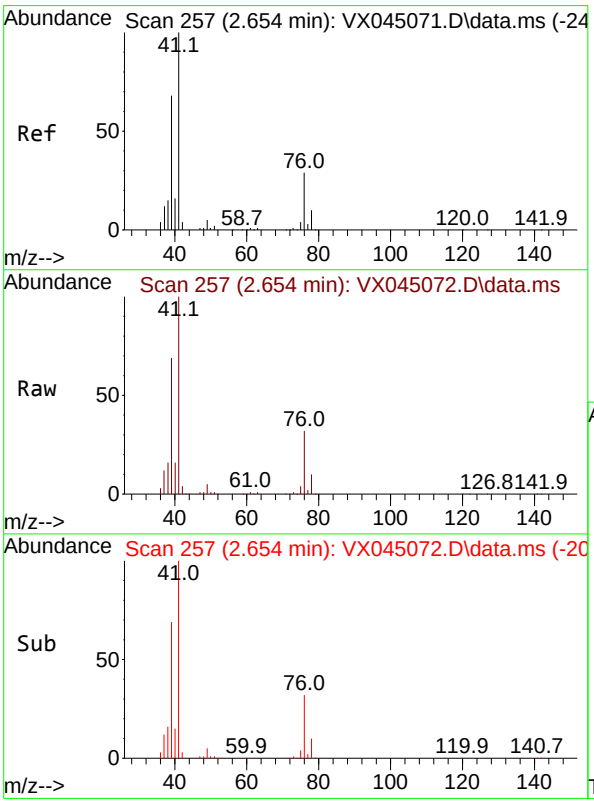
#13
Acrolein
Concen: 608.485 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 180411

Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.2	84.4

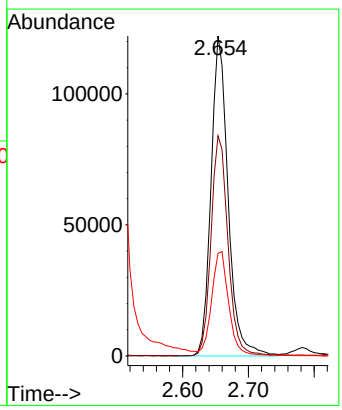


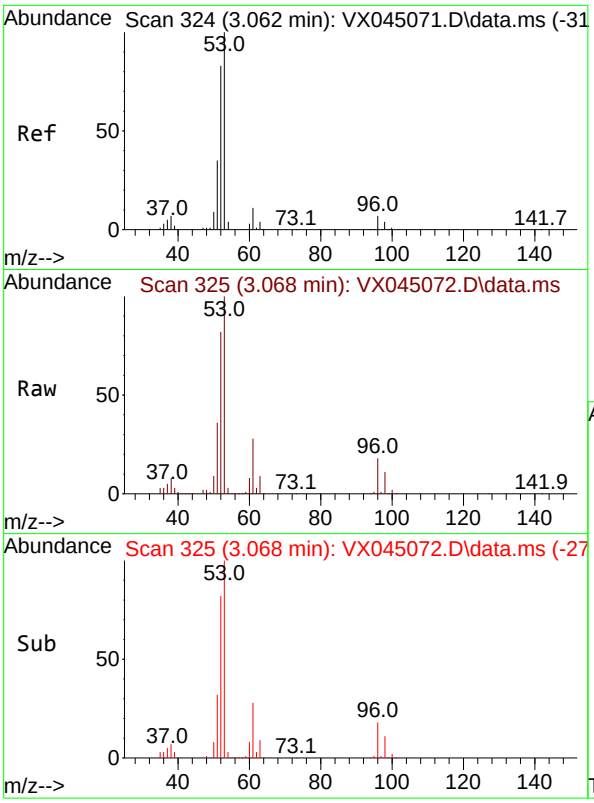


#14
Allyl chloride
Concen: 94.344 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 220783

Ion	Ratio	Lower	Upper
41	100		
39	68.4	53.8	80.8
76	32.6	25.2	37.8



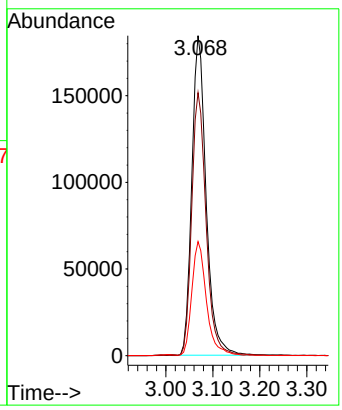


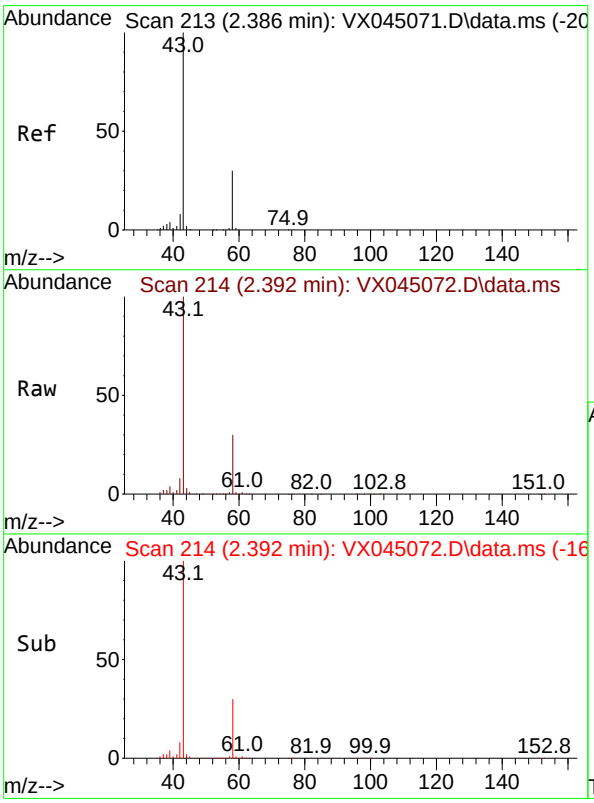
#15
Acrylonitrile
Concen: 526.749 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 391946

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.2	99.2
51	36.6	29.0	43.4

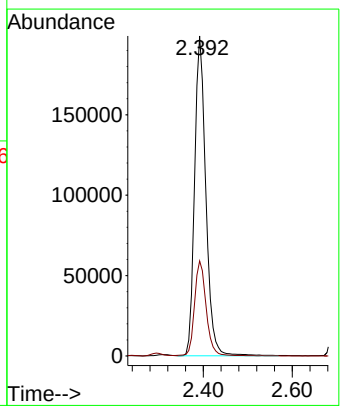


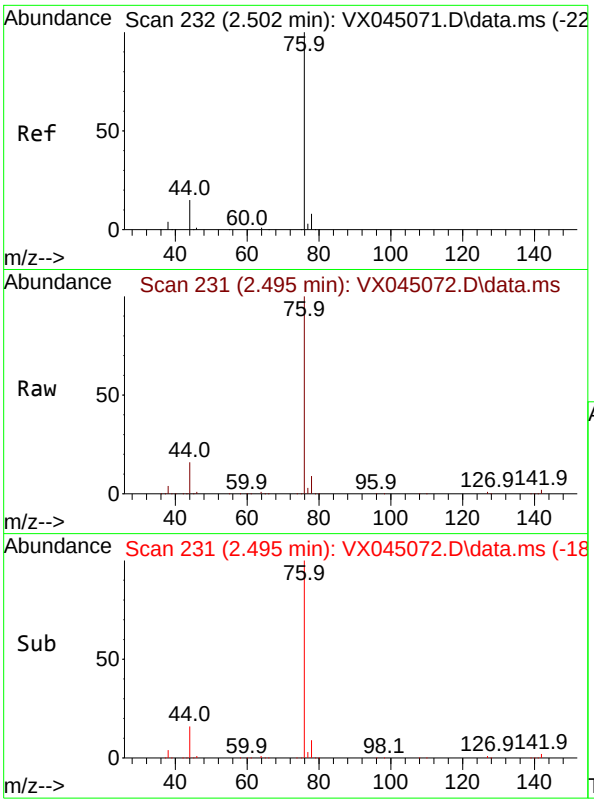


#16
Acetone
Concen: 566.991 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 348698

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4



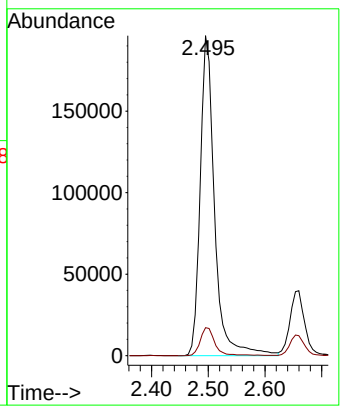


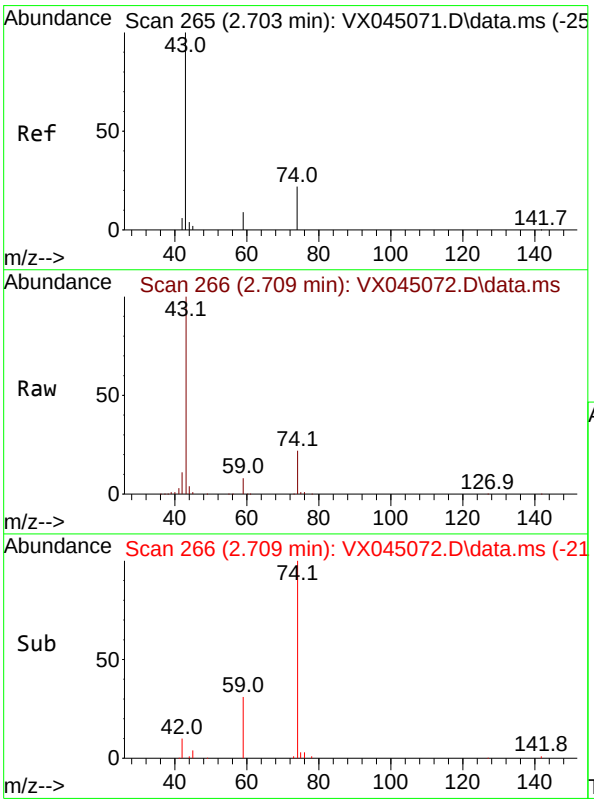
#17
Carbon Disulfide
Concen: 97.574 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 345572

Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.6	9.8

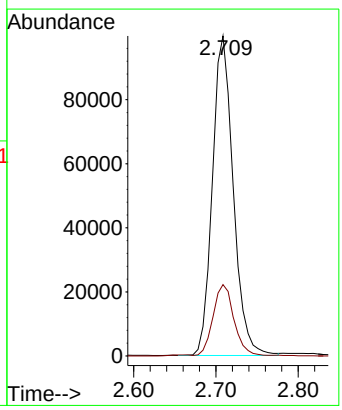


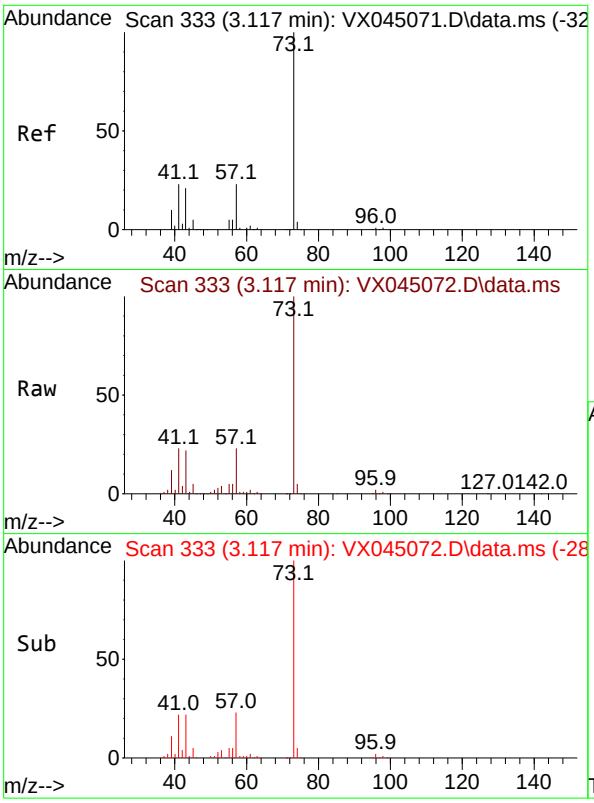


#18
Methyl Acetate
Concen: 94.899 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 175784

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



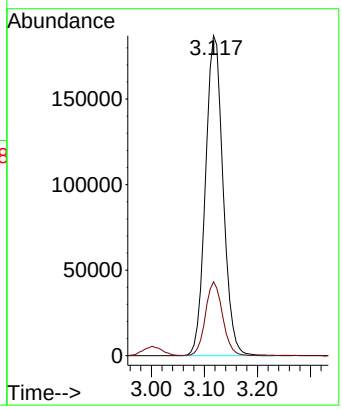


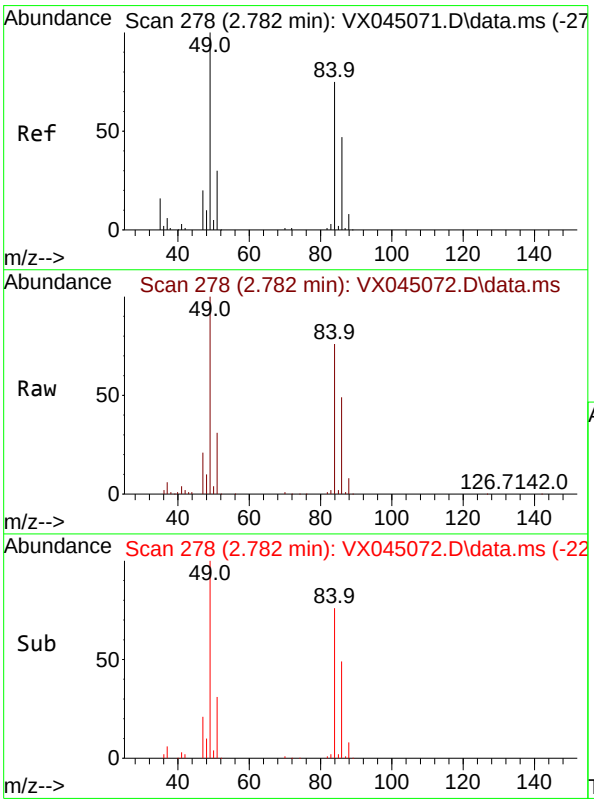
#19
Methyl tert-butyl Ether
Concen: 103.661 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 431413

Ion	Ratio	Lower	Upper
73	100		
57	23.0	18.5	27.7

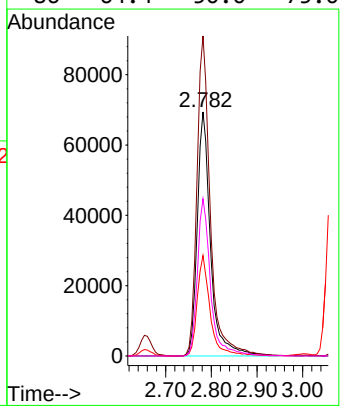


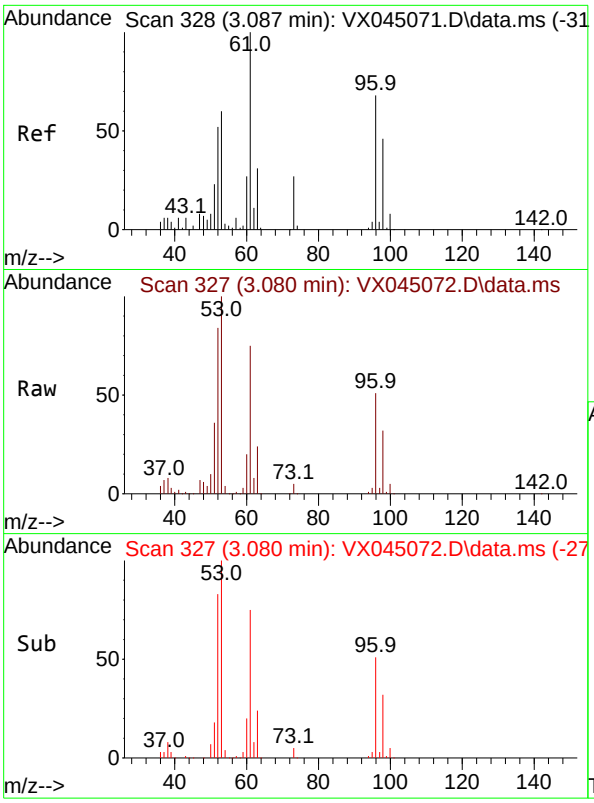


#20
Methylene Chloride
Concen: 96.381 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 84 Resp: 140388

Ion	Ratio	Lower	Upper
84	100		
49	131.2	106.5	159.7
51	41.2	32.1	48.1
86	64.4	50.0	75.0



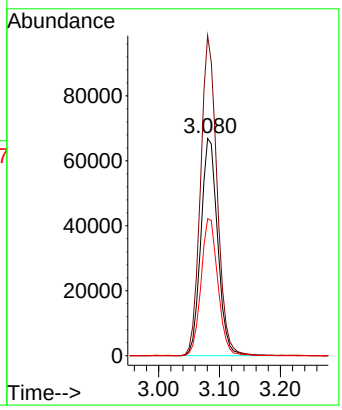


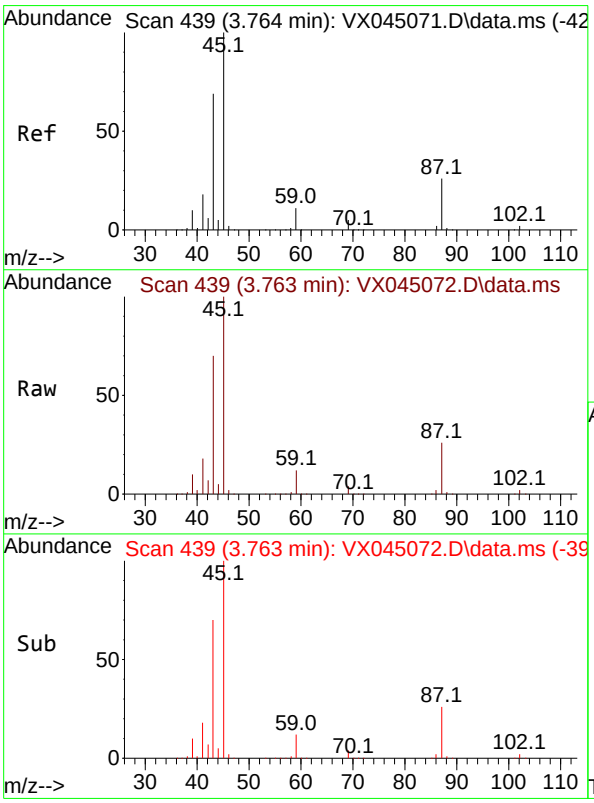
#21
trans-1,2-Dichloroethene
Concen: 100.164 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 128232

Ion	Ratio	Lower	Upper
96	100		
61	147.3	117.0	175.4
98	63.0	53.4	80.2

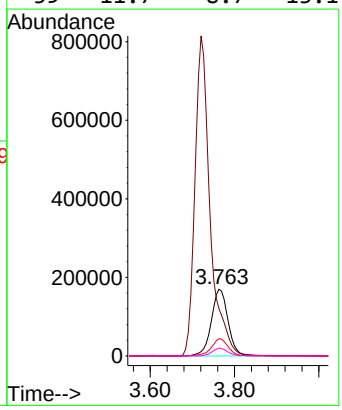


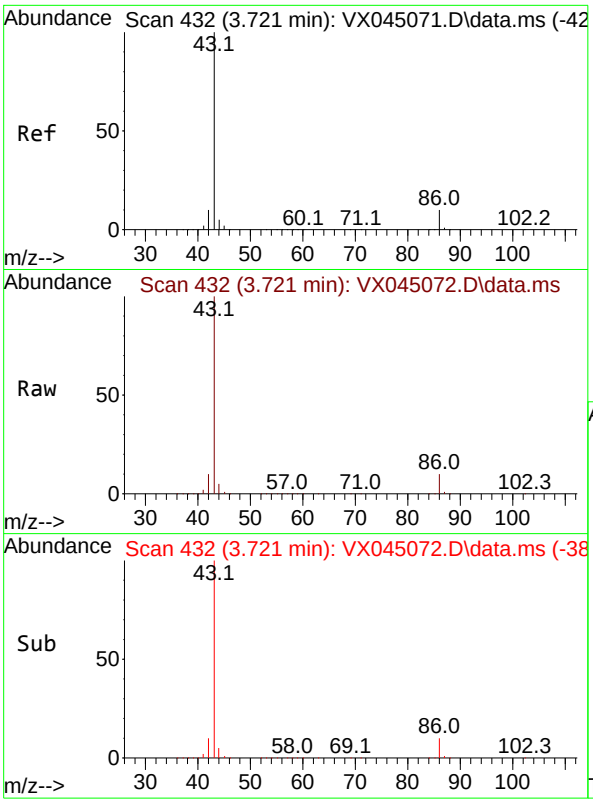


#22
Diisopropyl ether
Concen: 104.489 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 45 Resp: 467534

Ion	Ratio	Lower	Upper
45	100		
43	70.4	54.9	82.3
87	26.0	21.0	31.4
59	11.7	8.7	13.1



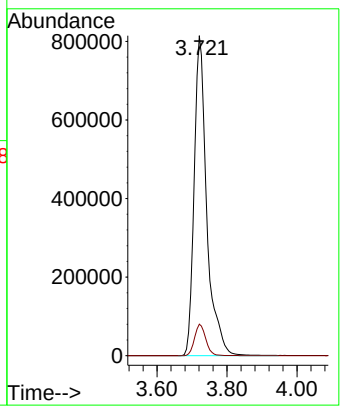


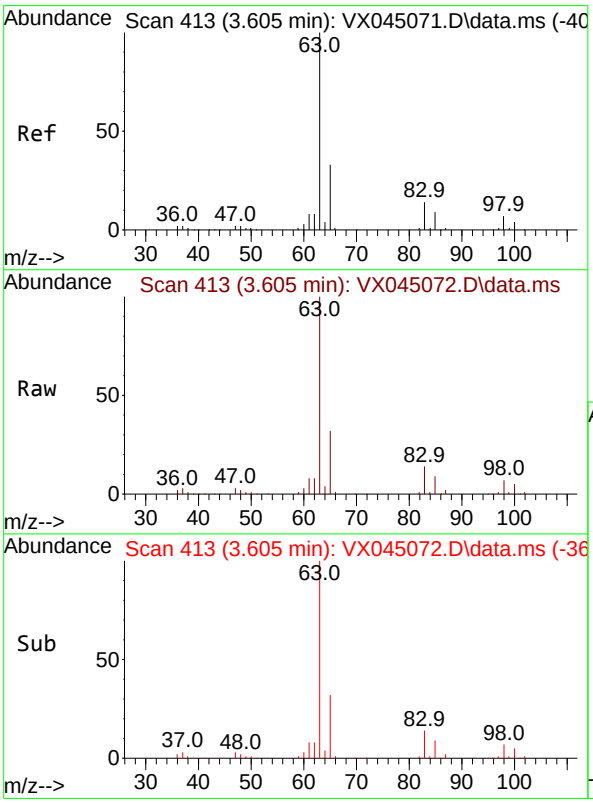
#23
Vinyl Acetate
Concen: 554.219 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2035880

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

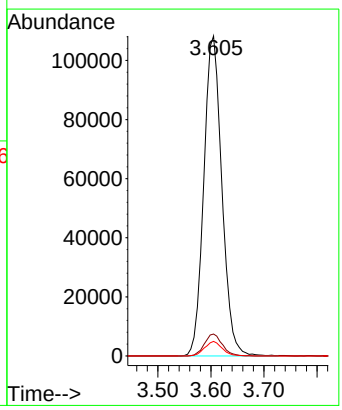


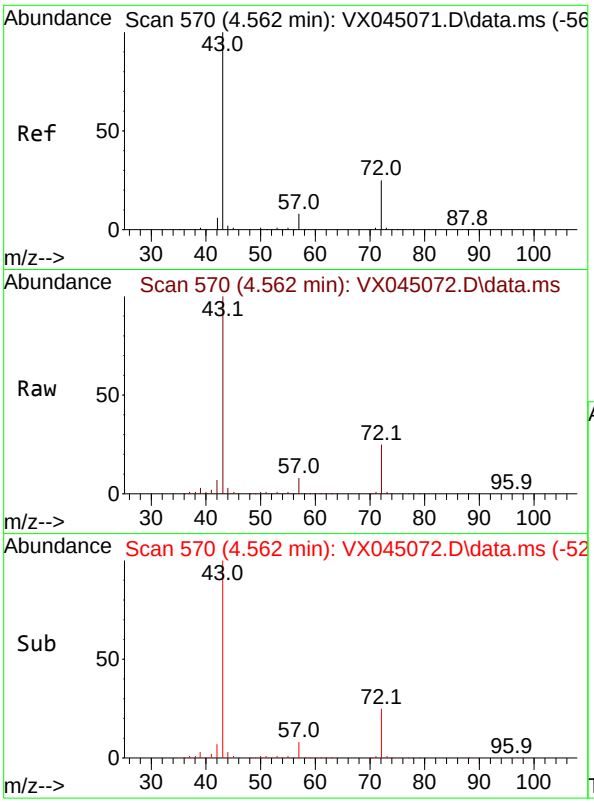


#24
1,1-Dichloroethane
Concen: 102.805 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 257023

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.6	2.1	6.5



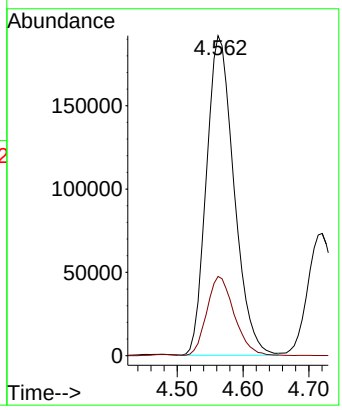


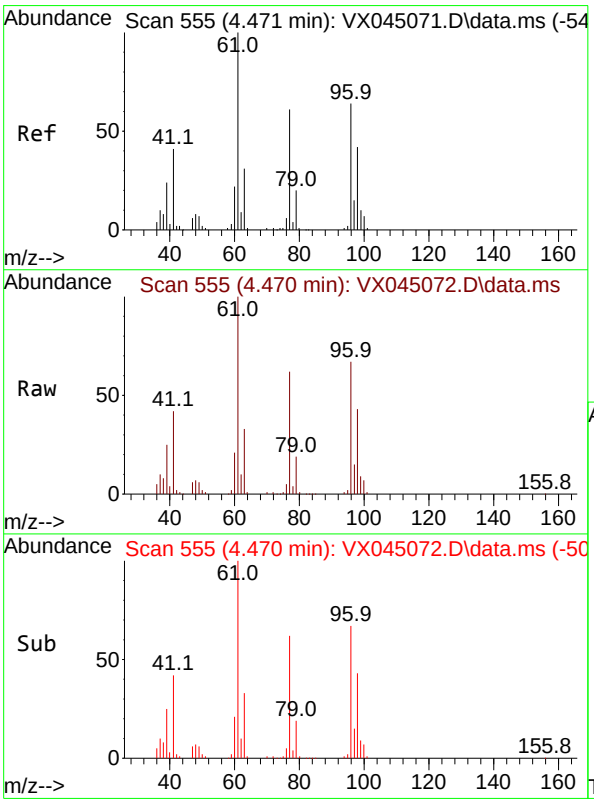
#25
2-Butanone
Concen: 563.952 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 559182

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.0	30.0

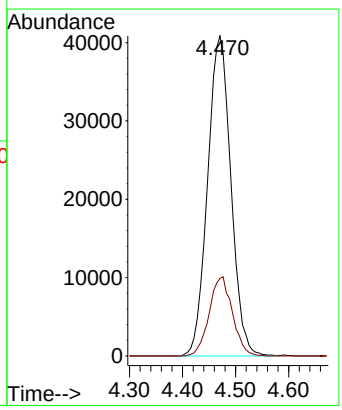


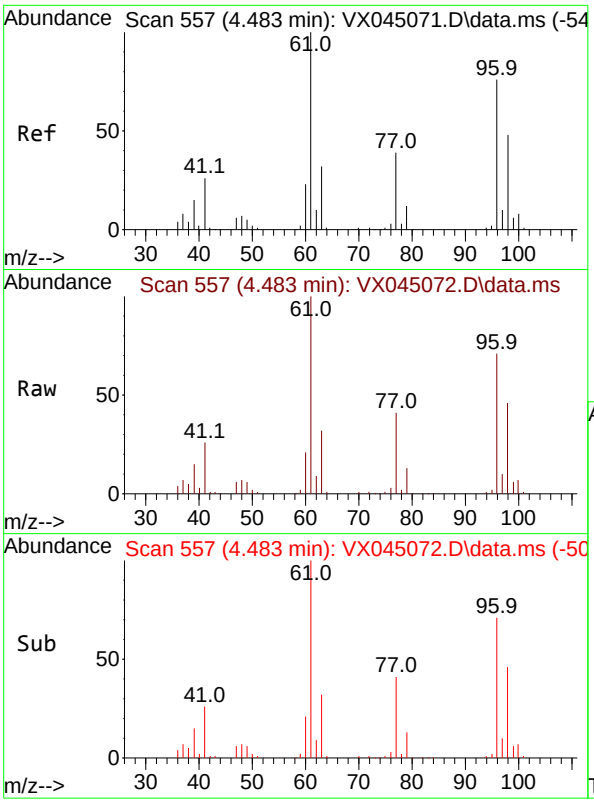


#26
2,2-Dichloropropane
Concen: 67.148 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 77 Resp: 124805

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.4	37.0



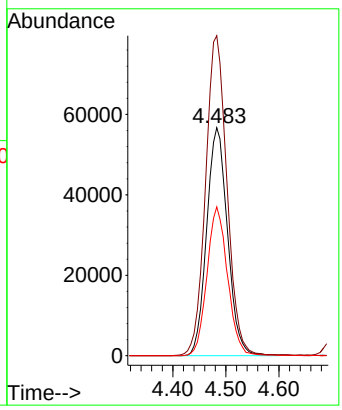


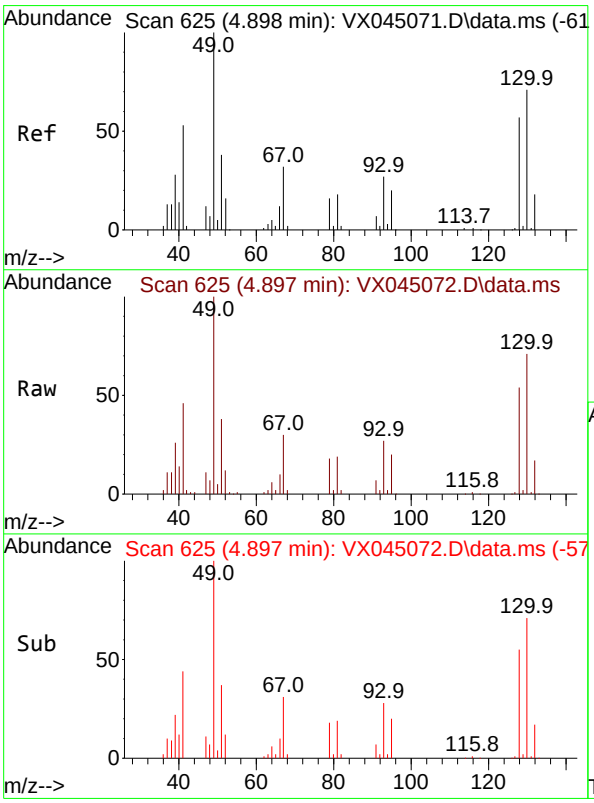
#27
cis-1,2-Dichloroethene
Concen: 100.568 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 155193

Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	283.2
98	64.3	0.0	128.0

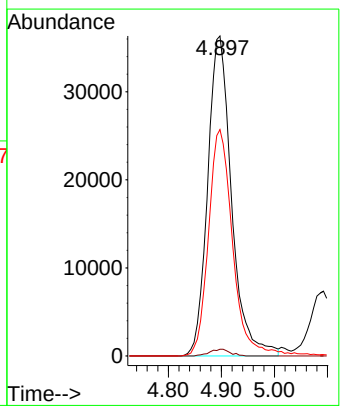


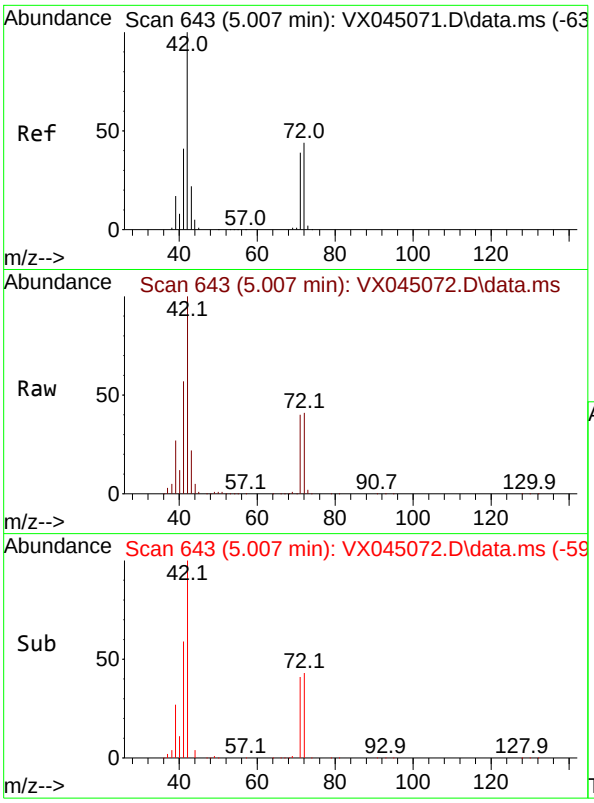


#28
Bromochloromethane
Concen: 94.428 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 49 Resp: 113848

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	72.2	56.1	84.1



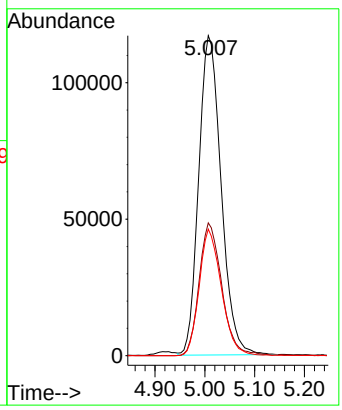


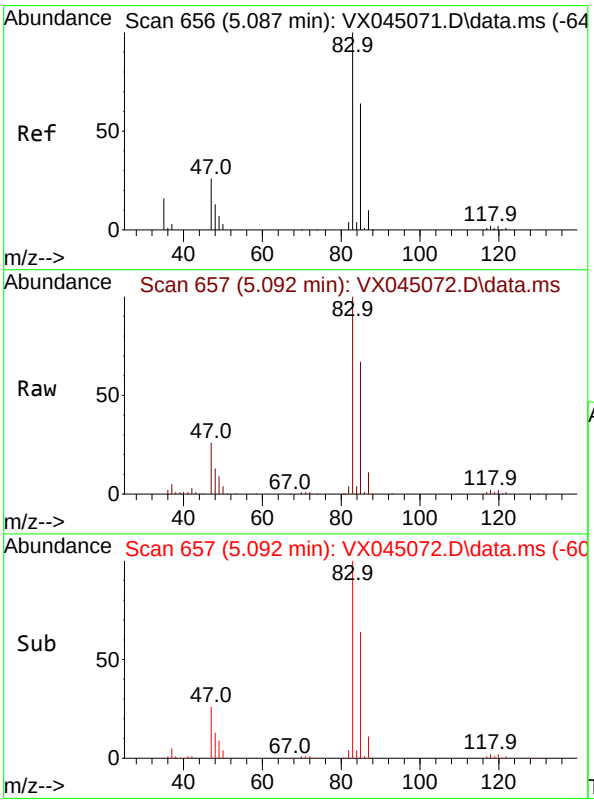
#29
Tetrahydrofuran
Concen: 556.465 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 365565

Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.1	51.1
71	39.2	31.4	47.0

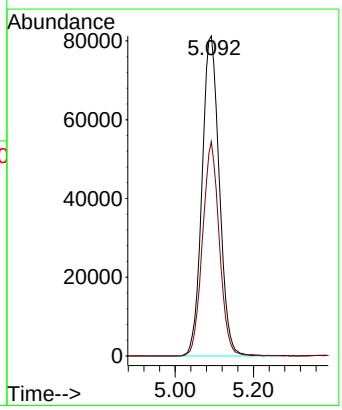


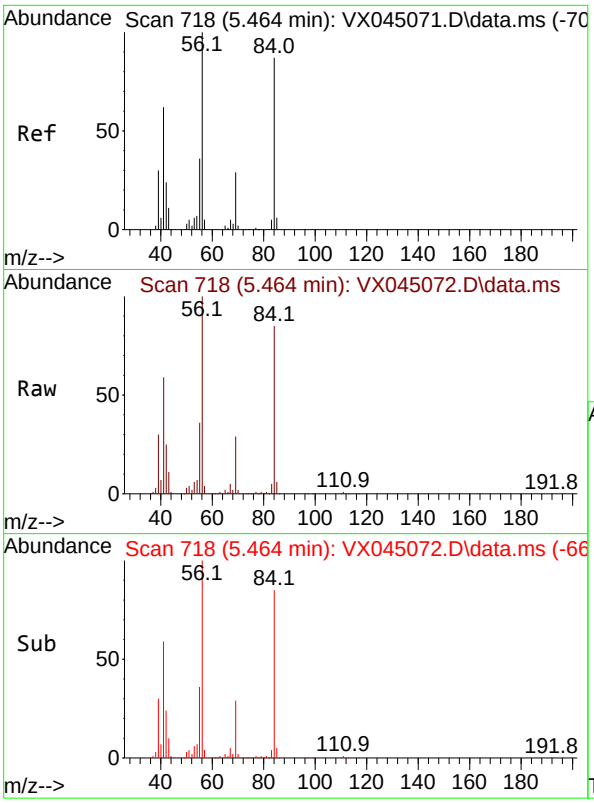


#30
Chloroform
Concen: 101.814 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 248978

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.4	77.2



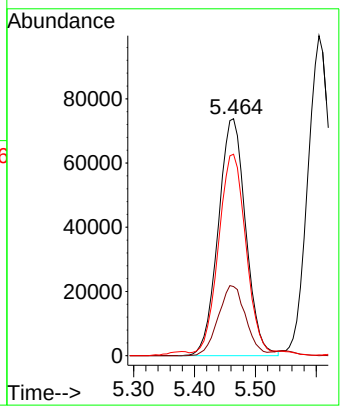


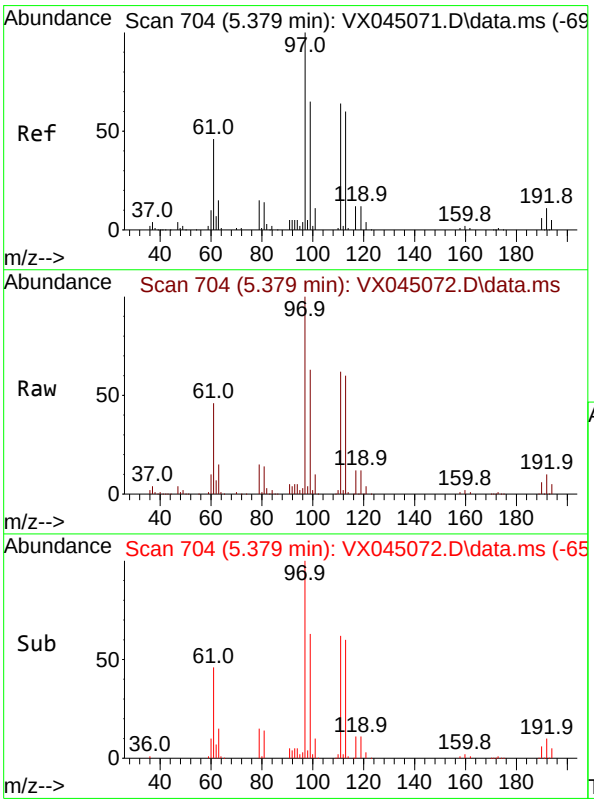
#31
Cyclohexane
Concen: 100.711 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 231082

Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.4	35.2
84	83.3	69.4	104.2

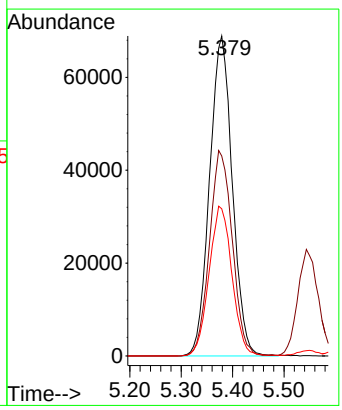


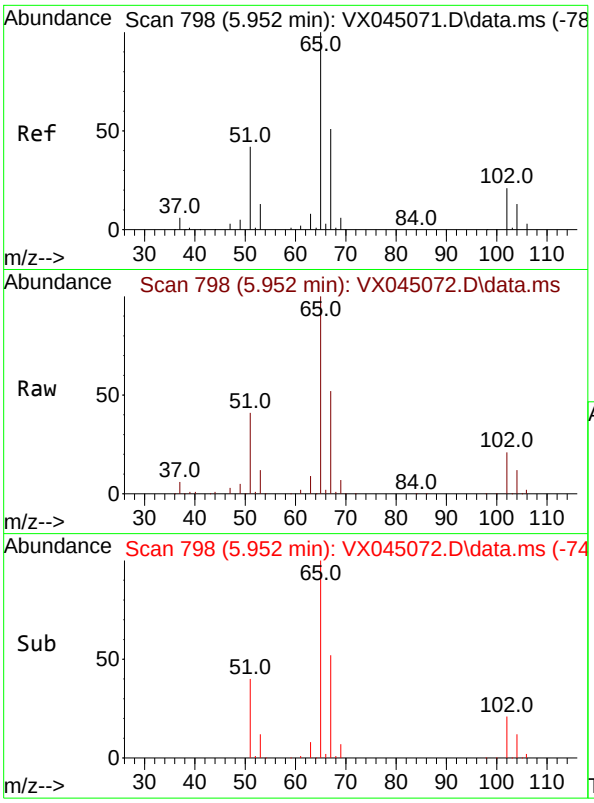


#32
1,1,1-Trichloroethane
Concen: 102.638 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 97 Resp: 211302

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	47.3	38.4	57.6



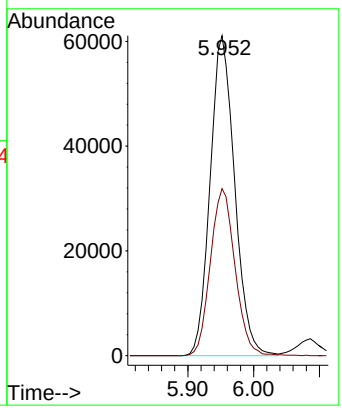


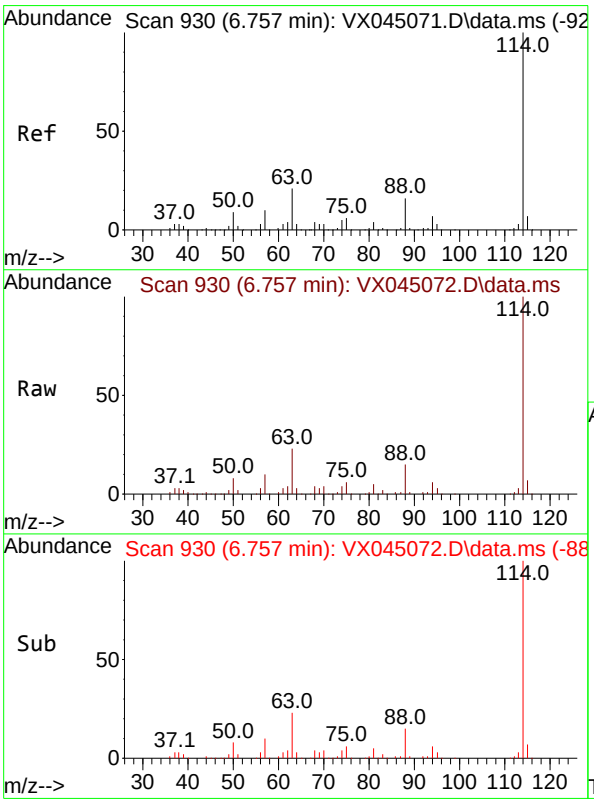
#33
1,2-Dichloroethane-d4
Concen: 106.011 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 158452

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.2

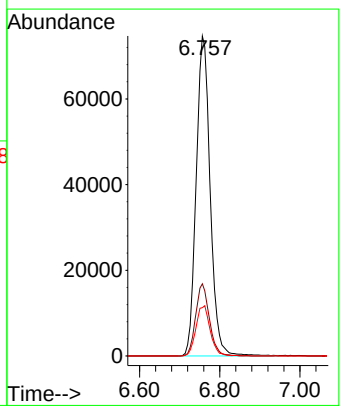


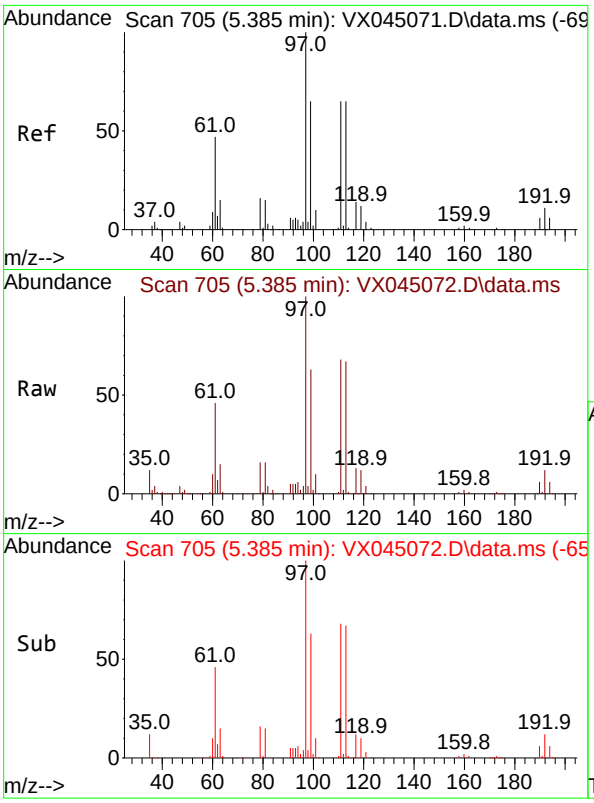


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:114 Resp: 181031

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	41.8
88	15.1	0.0	32.8



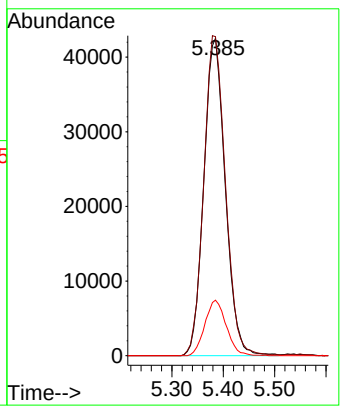


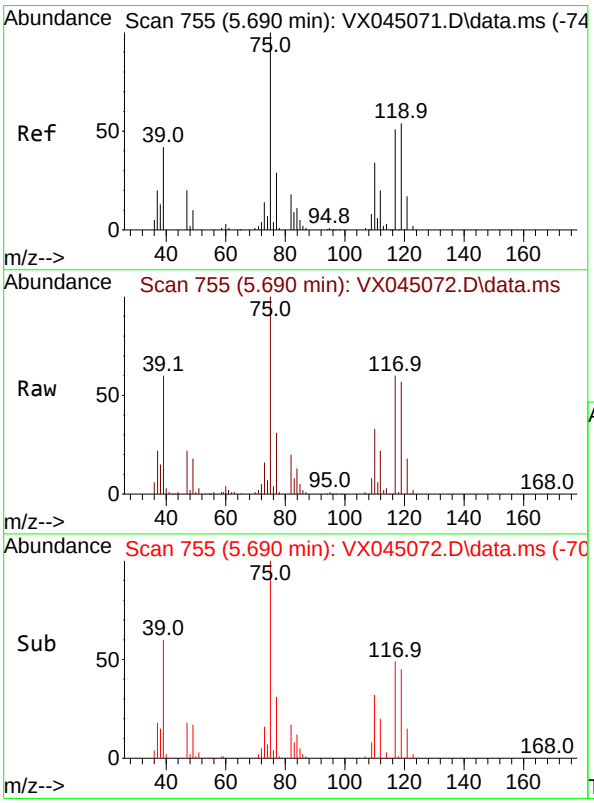
#35
Dibromofluoromethane
Concen: 104.110 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 123185

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	17.5	14.3	21.5

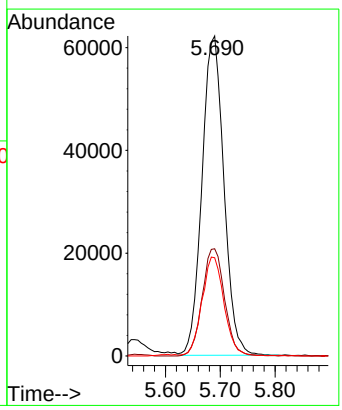


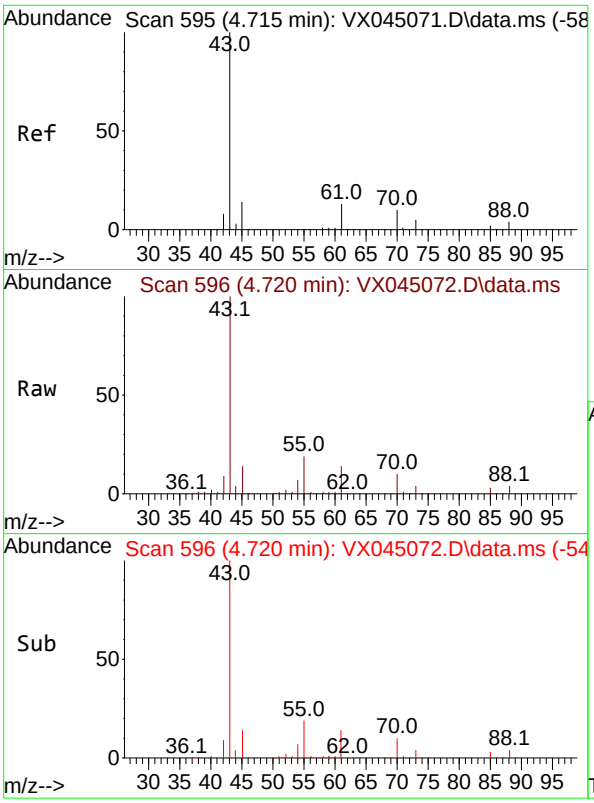


#36
1,1-Dichloropropene
Concen: 101.258 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 172295

Ion	Ratio	Lower	Upper
75	100		
110	34.4	16.9	50.6
77	31.0	24.5	36.7



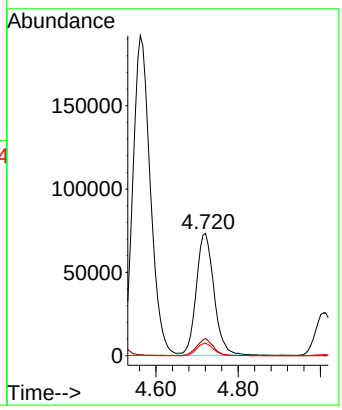


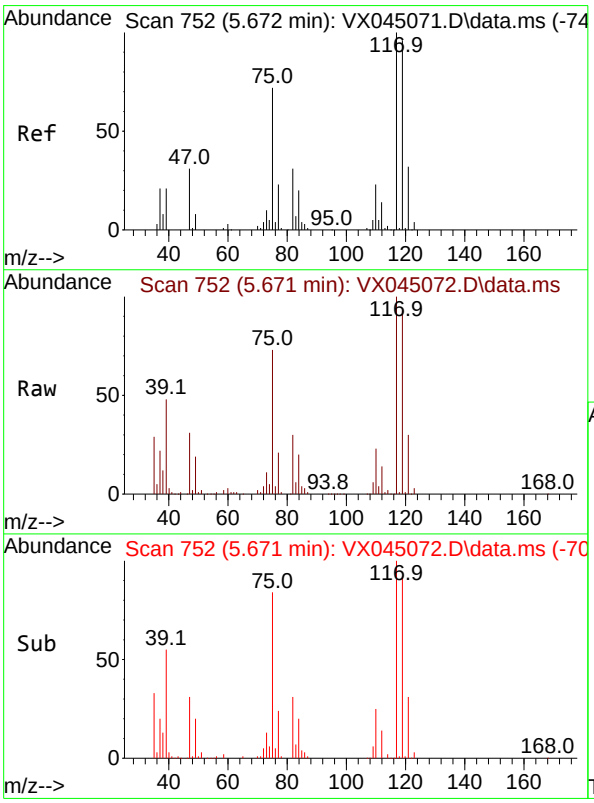
#37
Ethyl Acetate
Concen: 113.796 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 220327

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.8	16.2
70	9.6	7.7	11.5

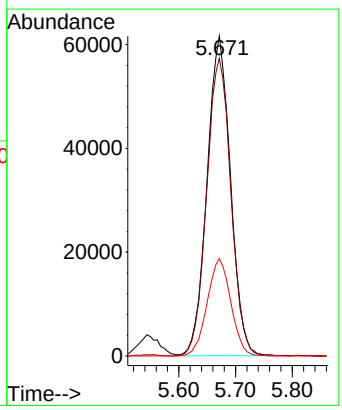


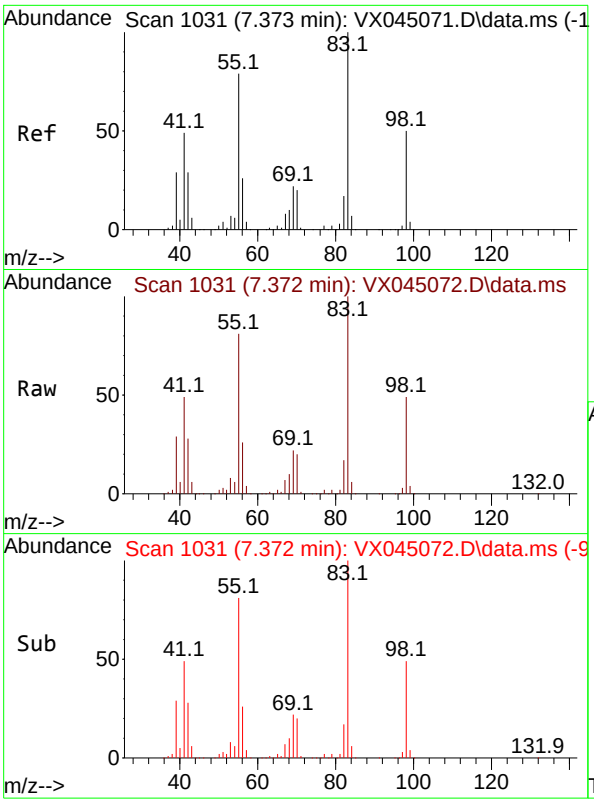


#38
Carbon Tetrachloride
Concen: 105.940 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 177219

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.7	115.1
121	30.4	25.5	38.3



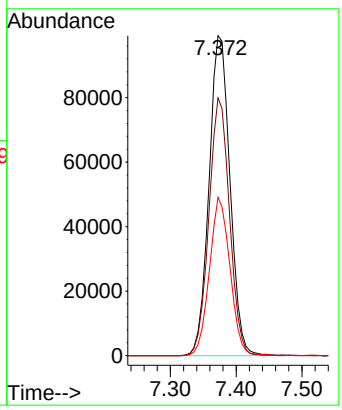


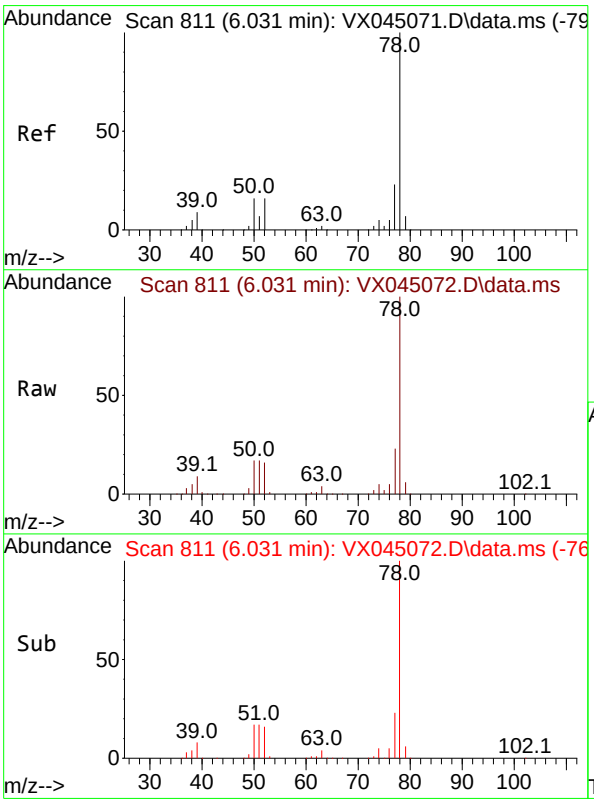
#39
Methylcyclohexane
Concen: 101.175 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 219856

Ion	Ratio	Lower	Upper
83	100		
55	80.6	63.0	94.4
98	49.5	39.7	59.5

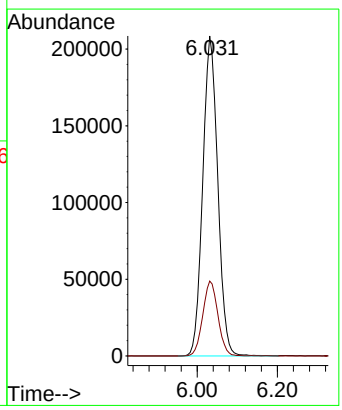


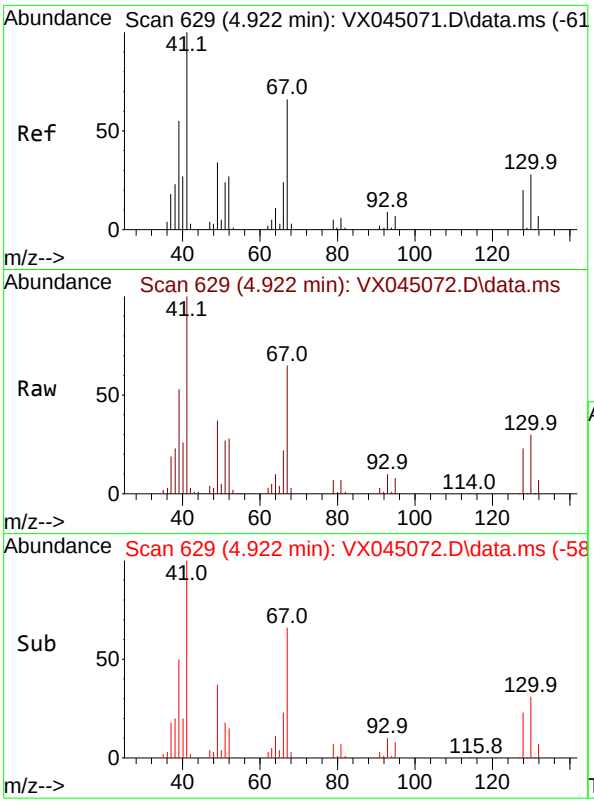


#40
Benzene
Concen: 101.908 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 78 Resp: 541974

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2



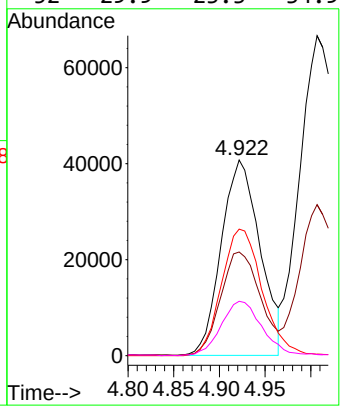


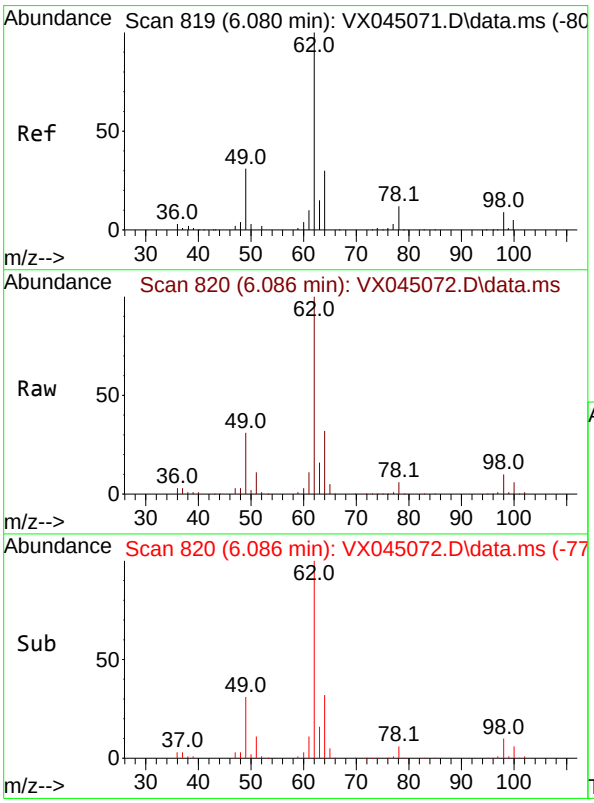
#41
Methacrylonitrile
Concen: 116.205 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 120186

Ion	Ratio	Lower	Upper
41	100		
39	54.3	44.6	67.0
67	68.3	53.9	80.9
52	29.9	23.3	34.9

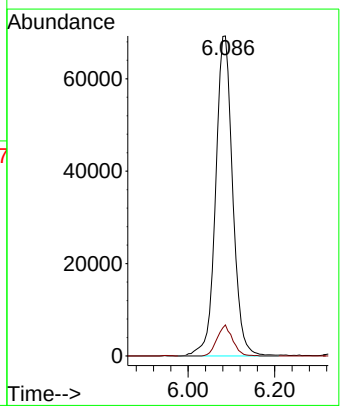


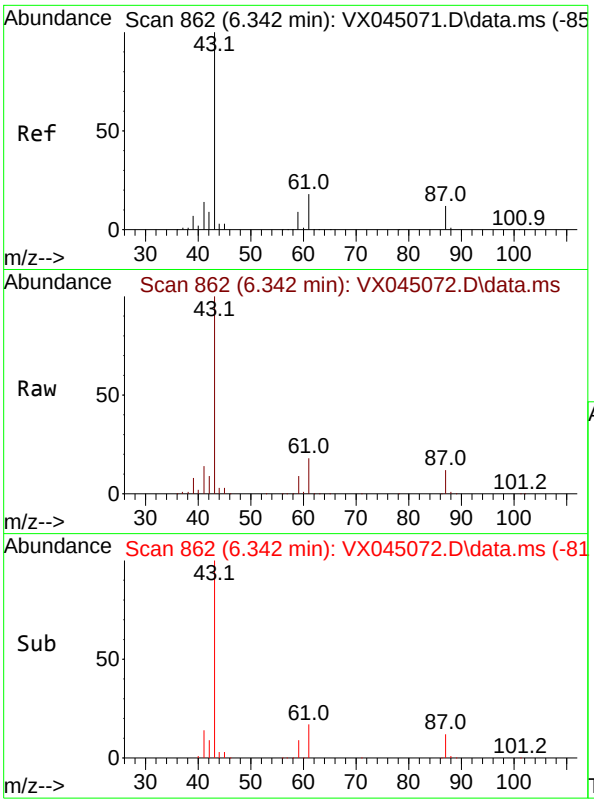


#42
1,2-Dichloroethane
Concen: 110.158 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 189857

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2



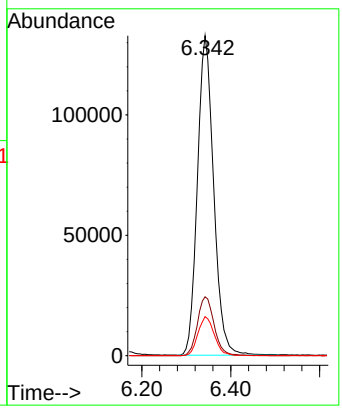


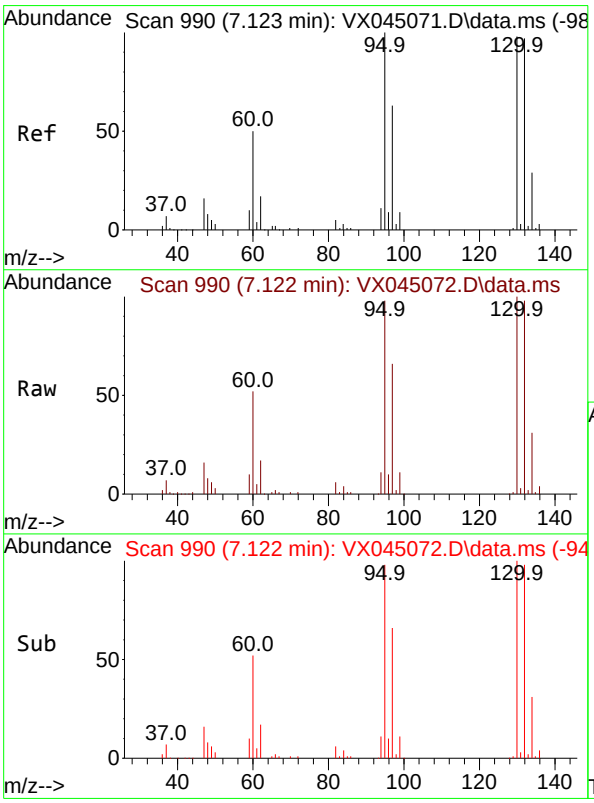
#43
Isopropyl Acetate
Concen: 109.806 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 338414

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	12.3	9.4	14.2

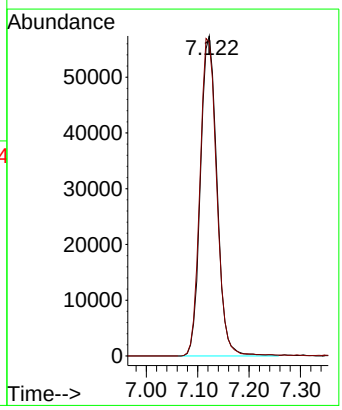


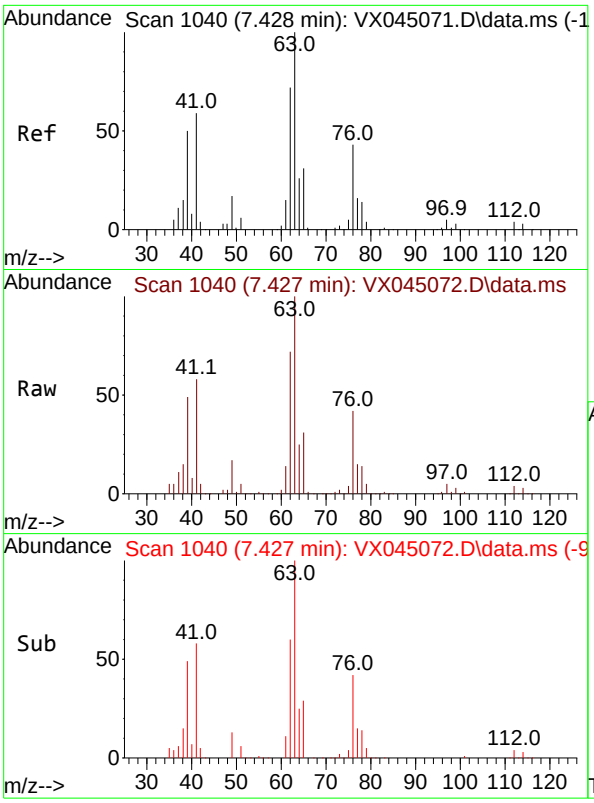


#44
Trichloroethene
Concen: 105.402 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:130 Resp: 128124

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	205.0



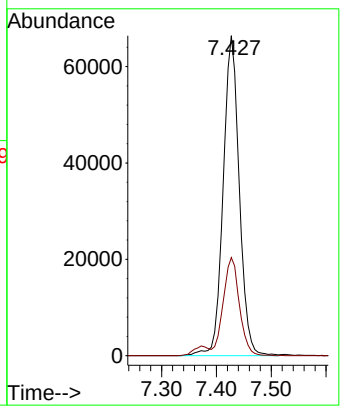


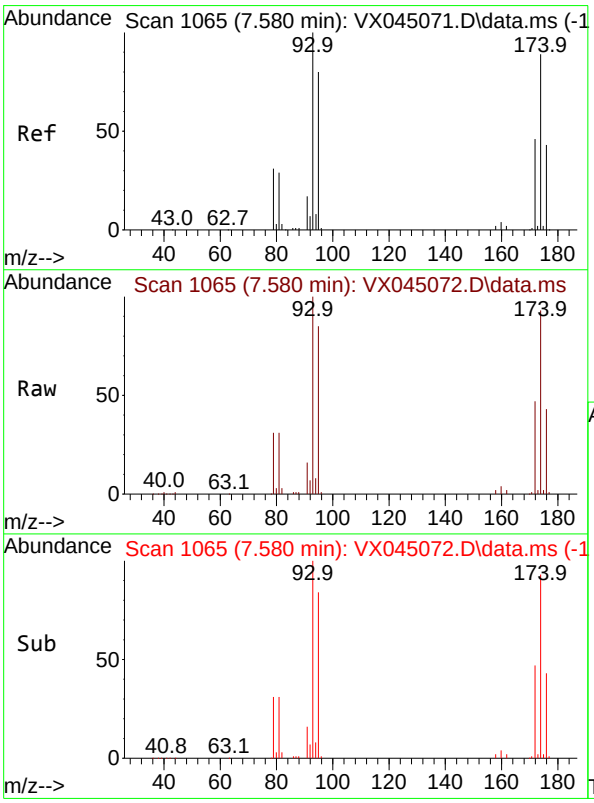
#45
1,2-Dichloropropane
Concen: 102.898 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 135997

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

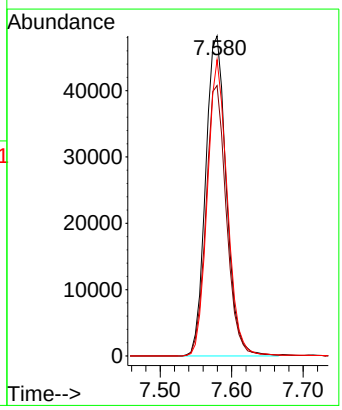


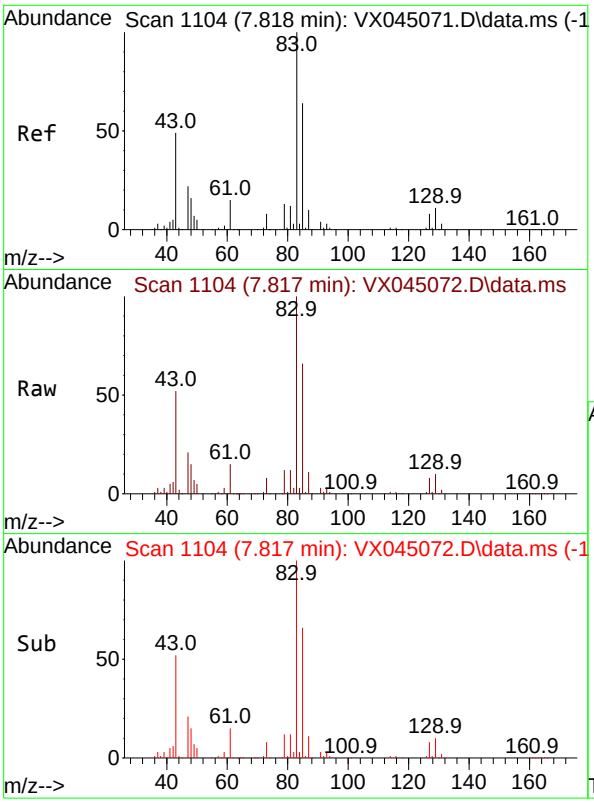


#46
Dibromomethane
Concen: 105.329 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 93 Resp: 97248

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.8	98.8
174	89.0	72.2	108.2



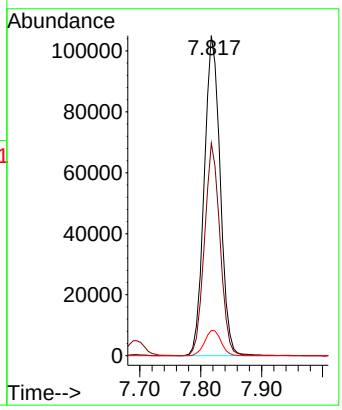


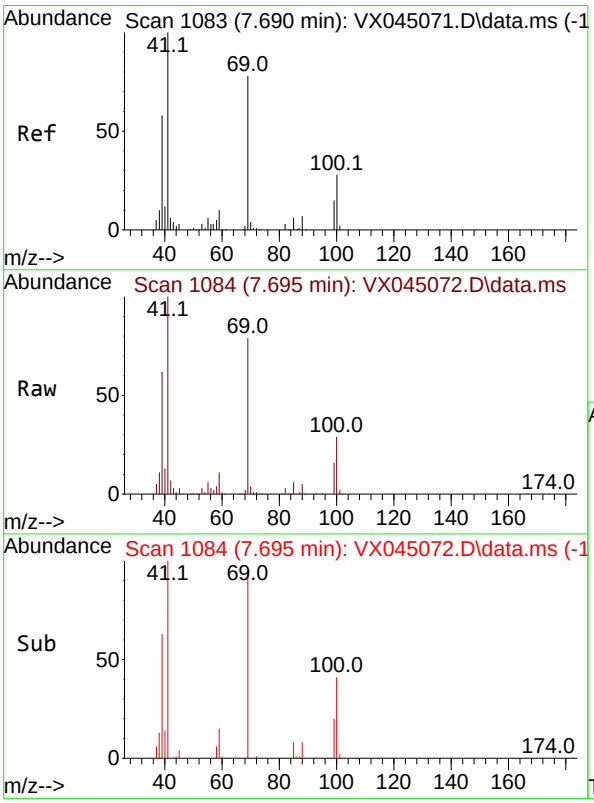
#47
Bromodichloromethane
Concen: 106.947 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 191016

Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7
127	7.9	6.4	9.6

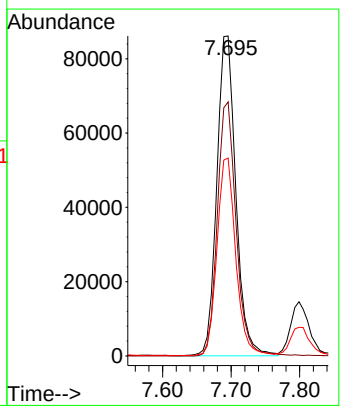


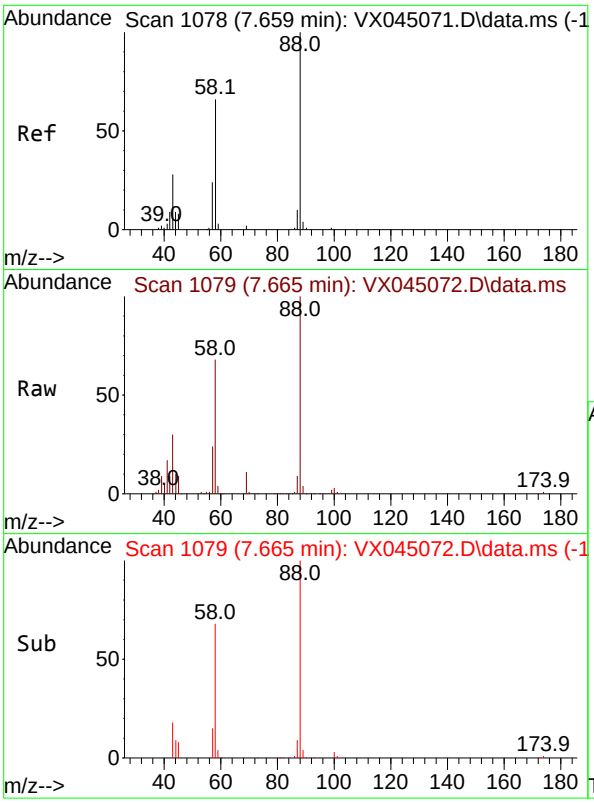


#48
Methyl methacrylate
Concen: 113.344 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 165825

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.0	94.6
39	60.9	47.5	71.3



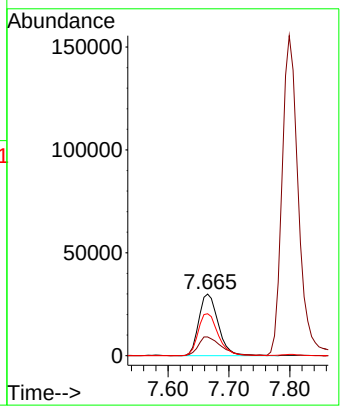


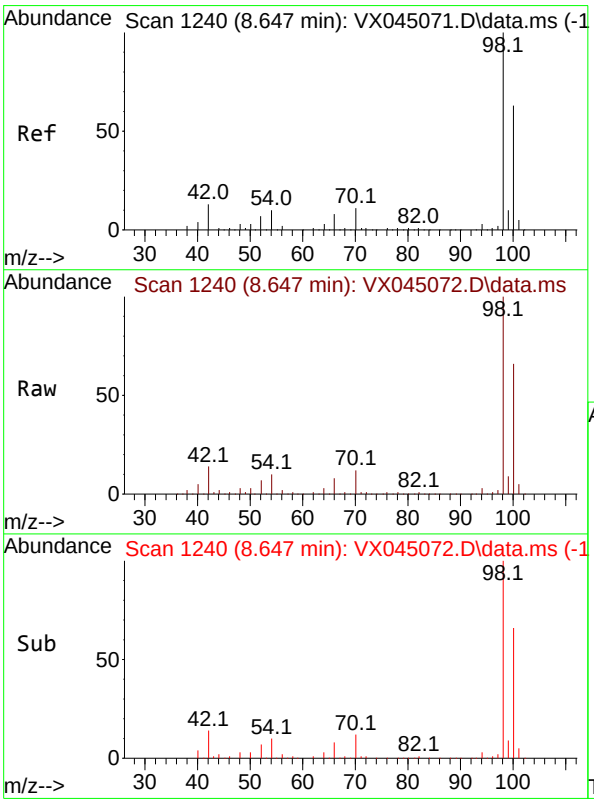
#49
1,4-Dioxane
Concen: 2132.314 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 66308

Ion	Ratio	Lower	Upper
88	100		
43	35.6	28.7	43.1
58	70.5	55.8	83.8

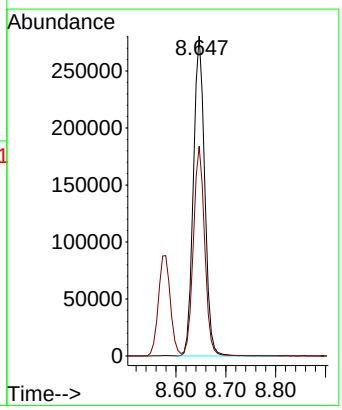


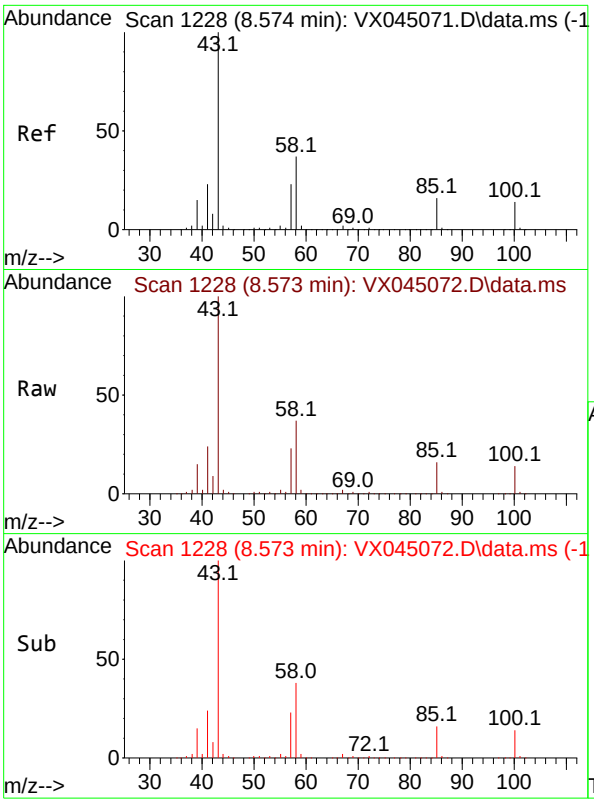


#50
Toluene-d8
Concen: 99.595 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 98 Resp: 441188

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.0	78.0



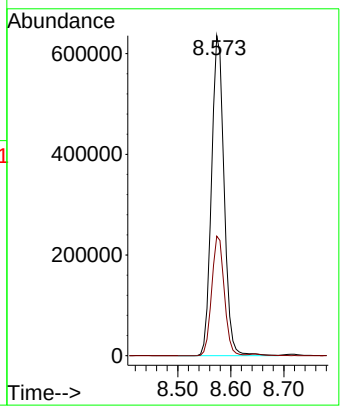


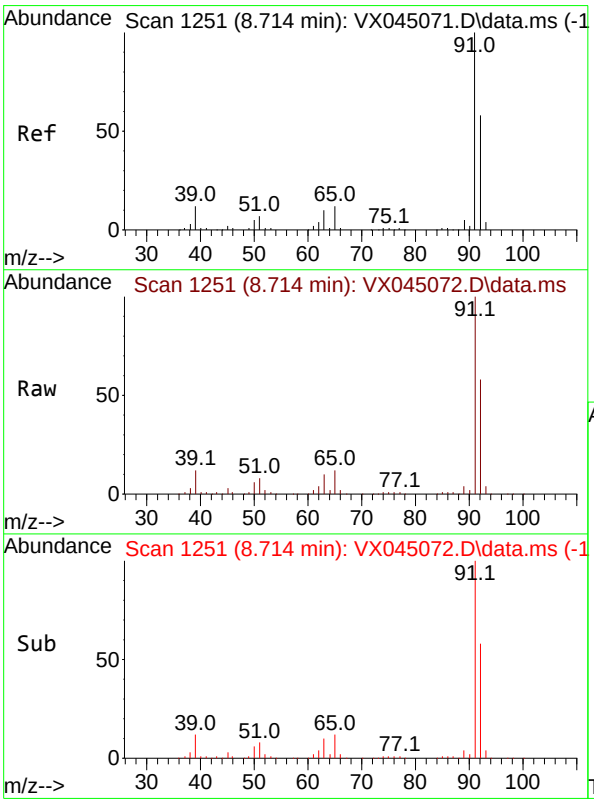
#51
4-Methyl-2-Pentanone
Concen: 555.050 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1048140

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.2	43.8

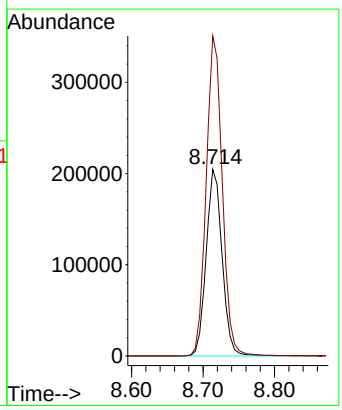


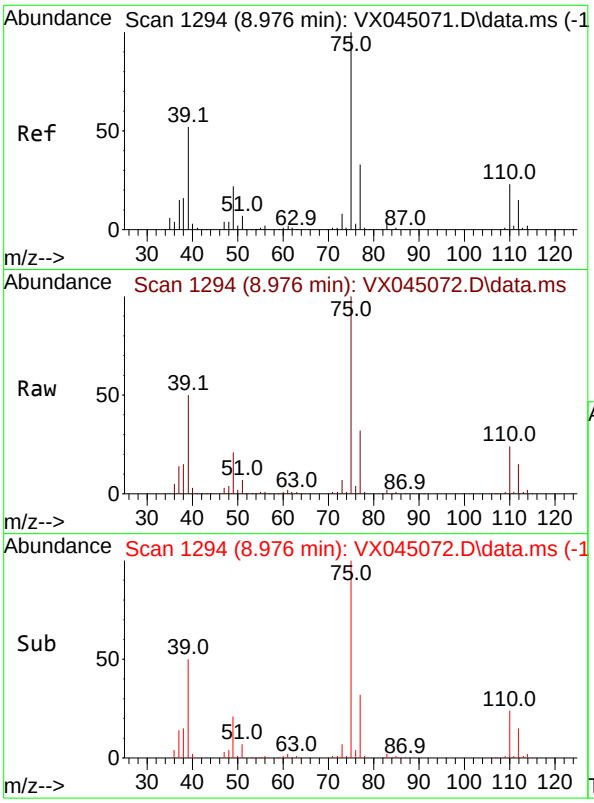


#52
Toluene
Concen: 100.178 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 92 Resp: 316349

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.9	208.3



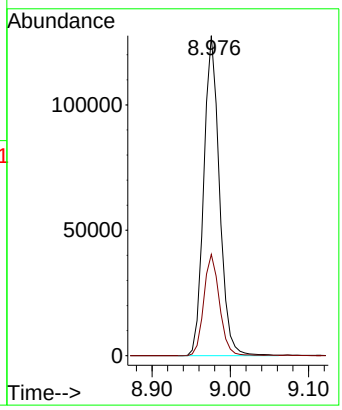


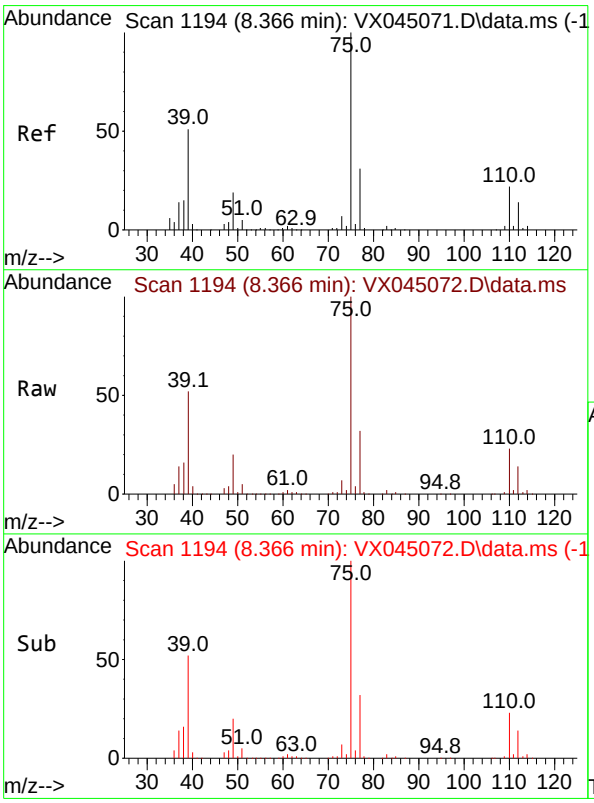
#53
t-1,3-Dichloropropene
Concen: 100.462 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 177352

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.5	39.7

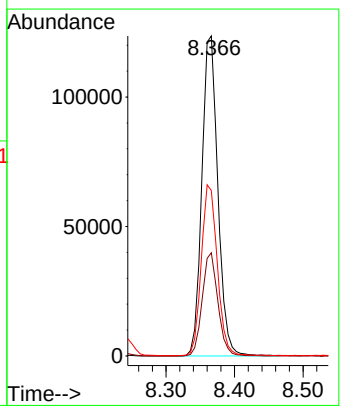


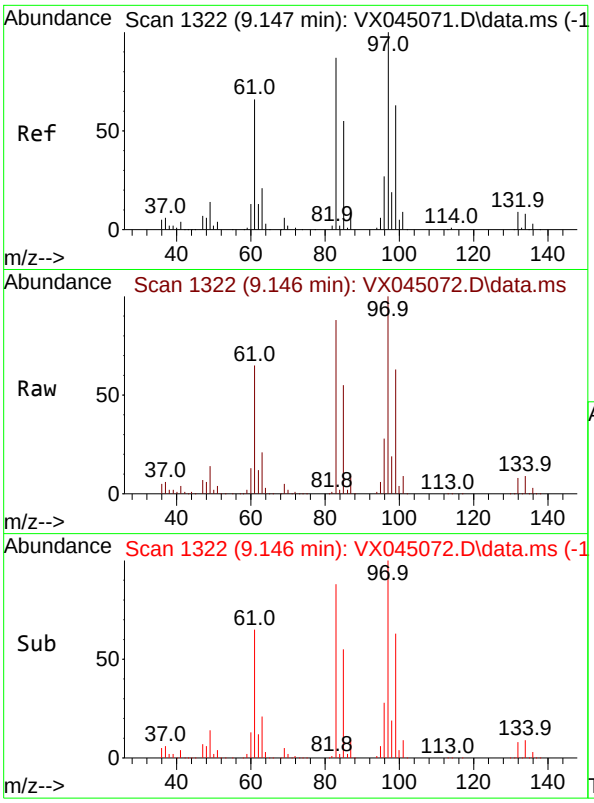


#54
cis-1,3-Dichloropropene
Concen: 101.815 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 200943

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	51.6	40.7	61.1



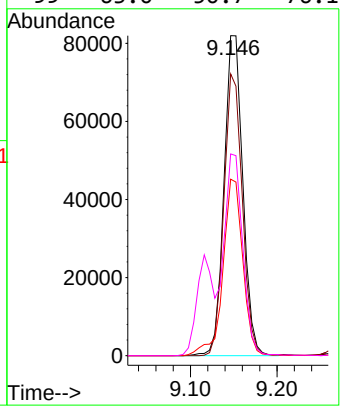


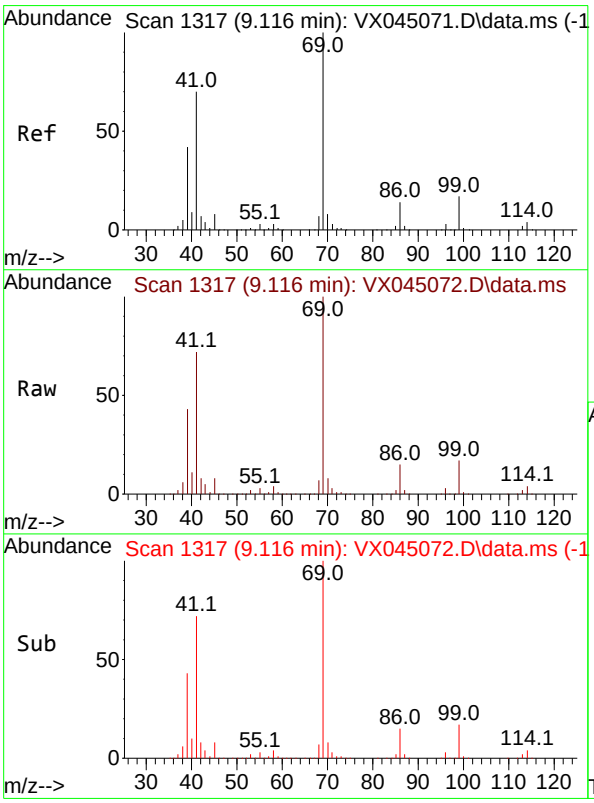
#55
1,1,2-Trichloroethane
Concen: 100.920 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 123426

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.4	104.2
85	55.1	44.1	66.1
99	63.0	50.7	76.1

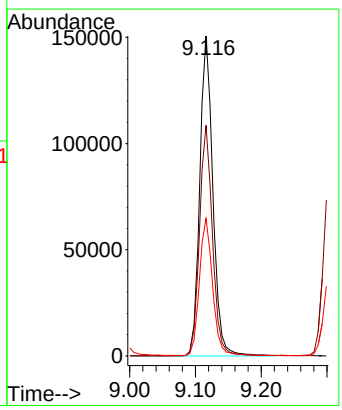


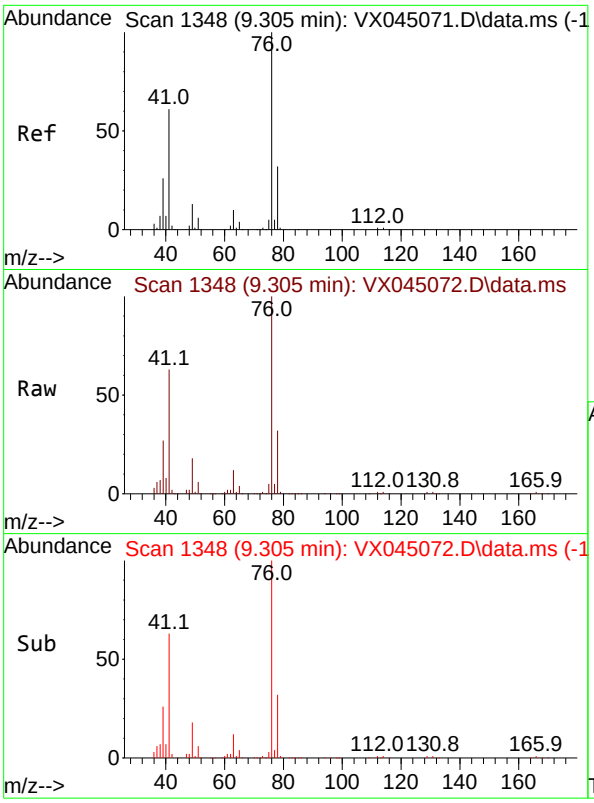


#56
Ethyl methacrylate
Concen: 106.744 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 69 Resp: 208782

Ion	Ratio	Lower	Upper
69	100		
41	71.3	57.0	85.4
39	43.0	34.2	51.4



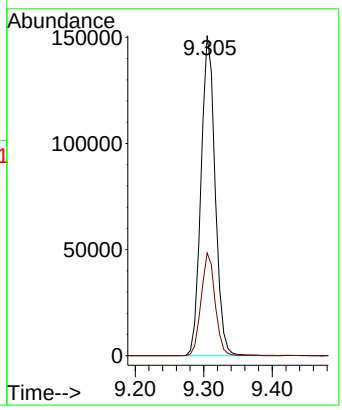


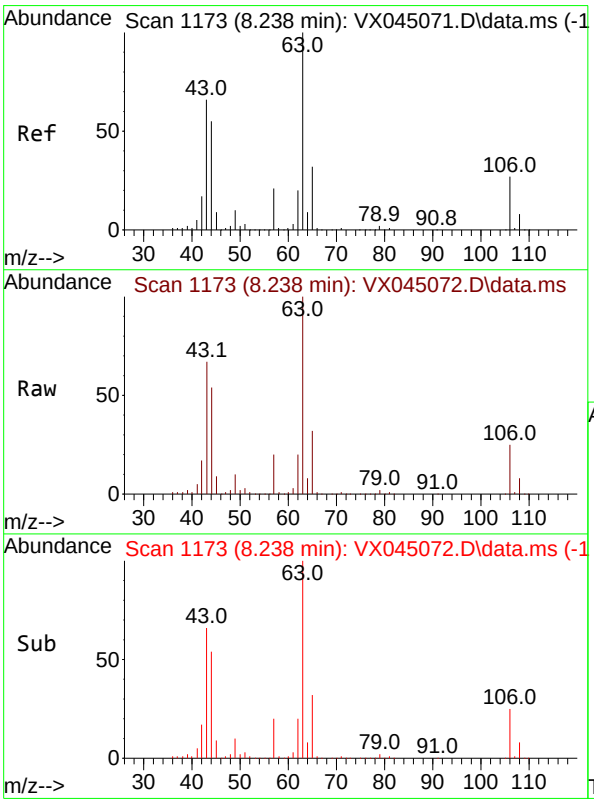
#57
1,3-Dichloropropane
Concen: 101.387 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 216267

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.5	38.3

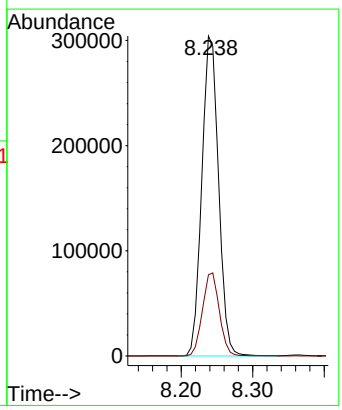


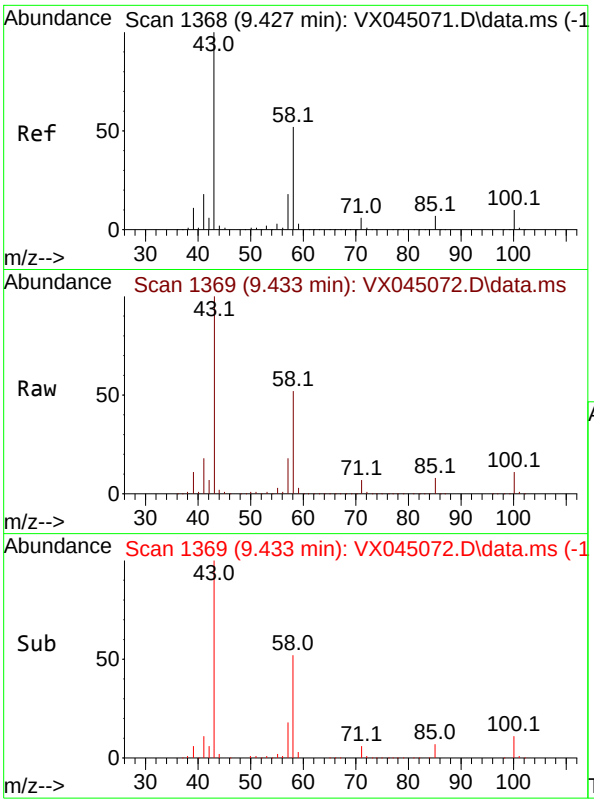


#58
2-Chloroethyl Vinyl ether
Concen: 514.987 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 494551

Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.5	32.3



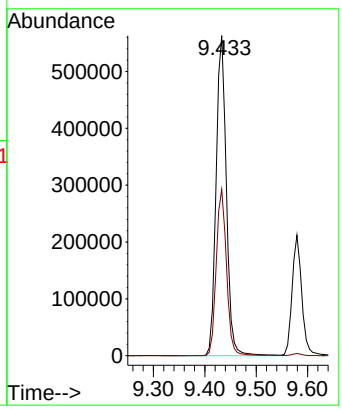


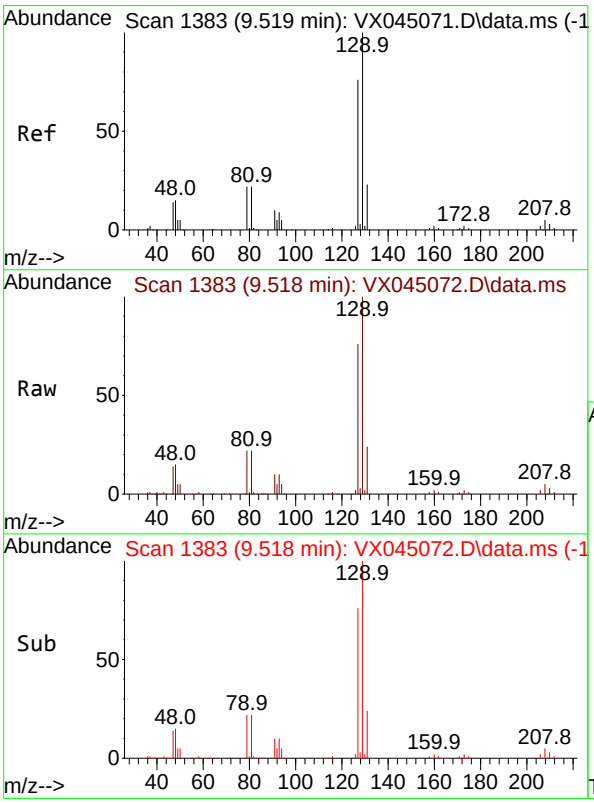
#59
2-Hexanone
Concen: 572.233 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 779492

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.9	77.6

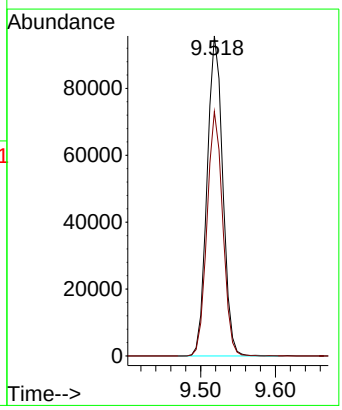


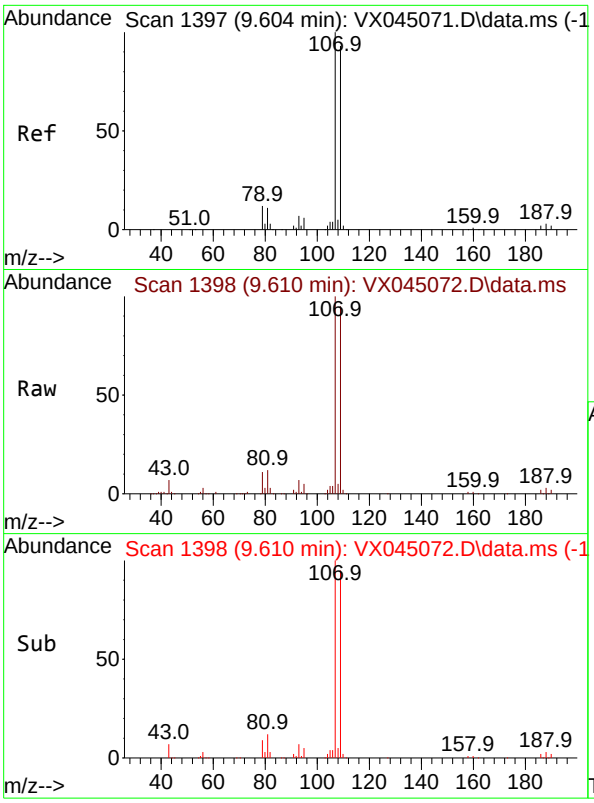


#60
Dibromochloromethane
Concen: 106.719 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:129 Resp: 139245

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.5	115.5



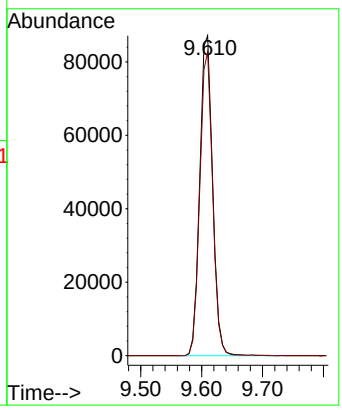


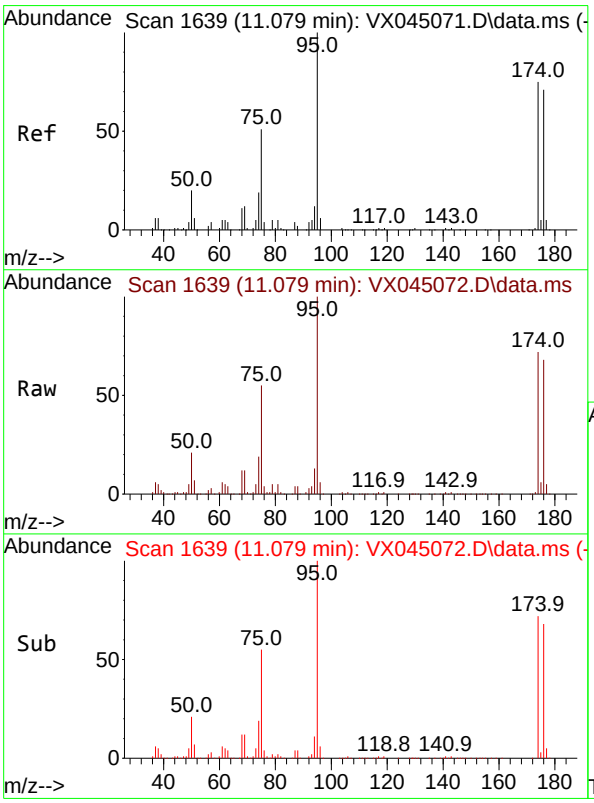
#61
1,2-Dibromoethane
Concen: 104.259 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 128617

Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.1	114.1

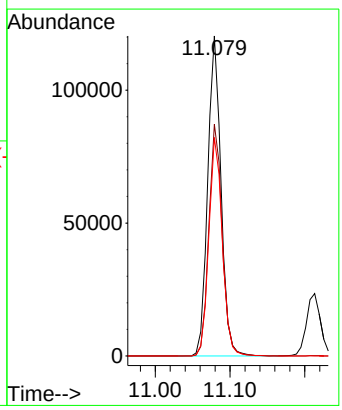


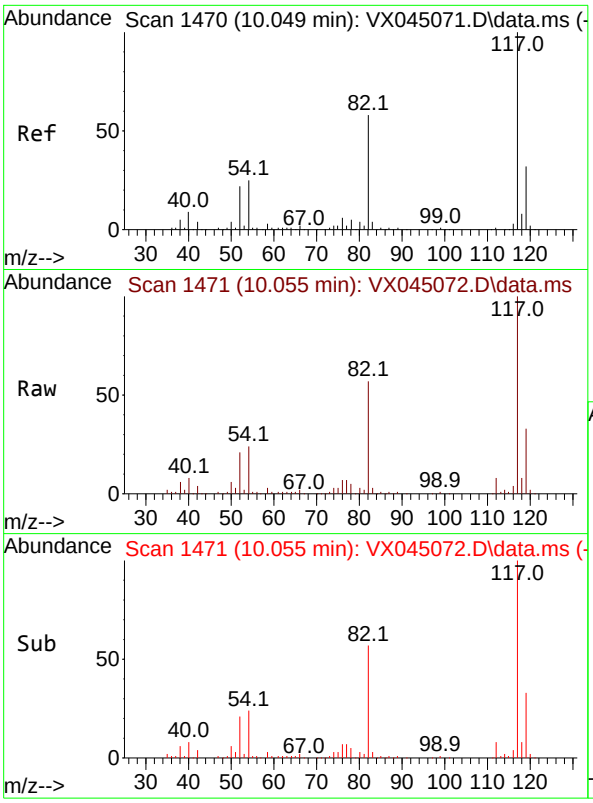


#62
4-Bromofluorobenzene
Concen: 100.365 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 95 Resp: 148476

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	148.2
176	69.2	0.0	141.4



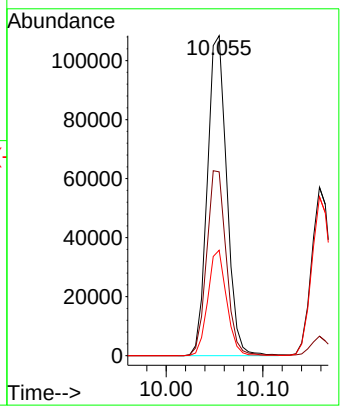


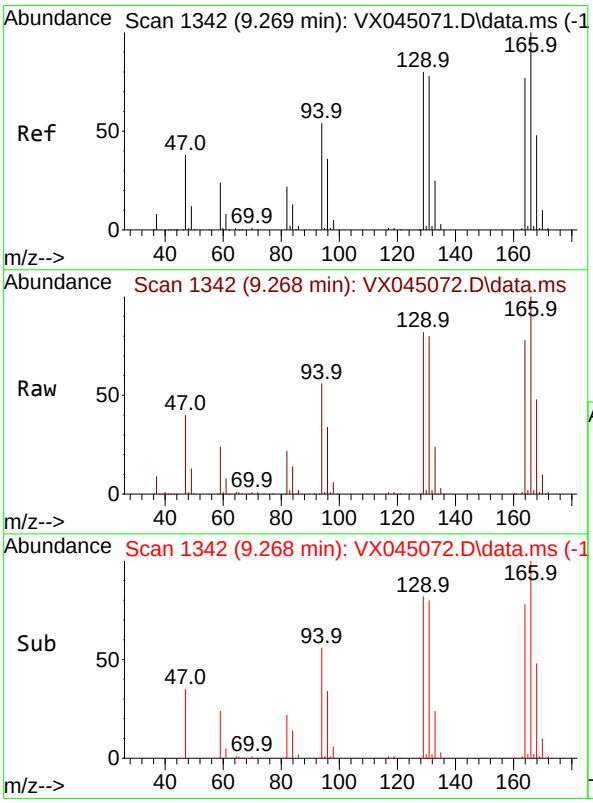
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 151175

Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.3	69.5
119	33.0	25.7	38.5

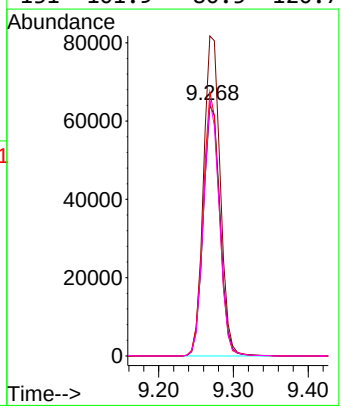


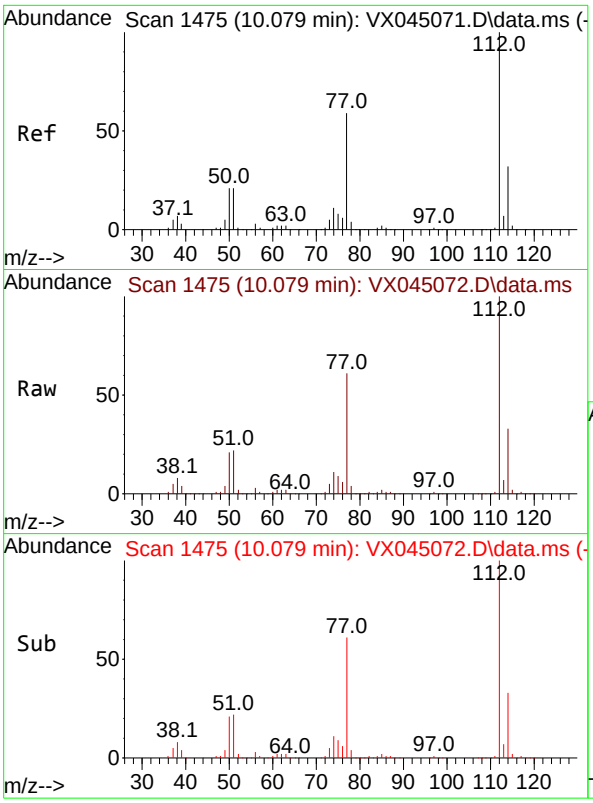


#64
Tetrachloroethene
Concen: 103.491 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:164 Resp: 99386

Ion	Ratio	Lower	Upper
164	100		
166	127.6	103.6	155.4
129	105.2	82.7	124.1
131	101.9	80.5	120.7



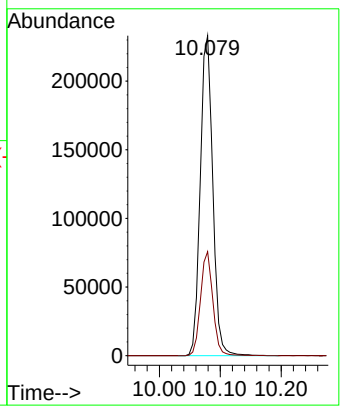


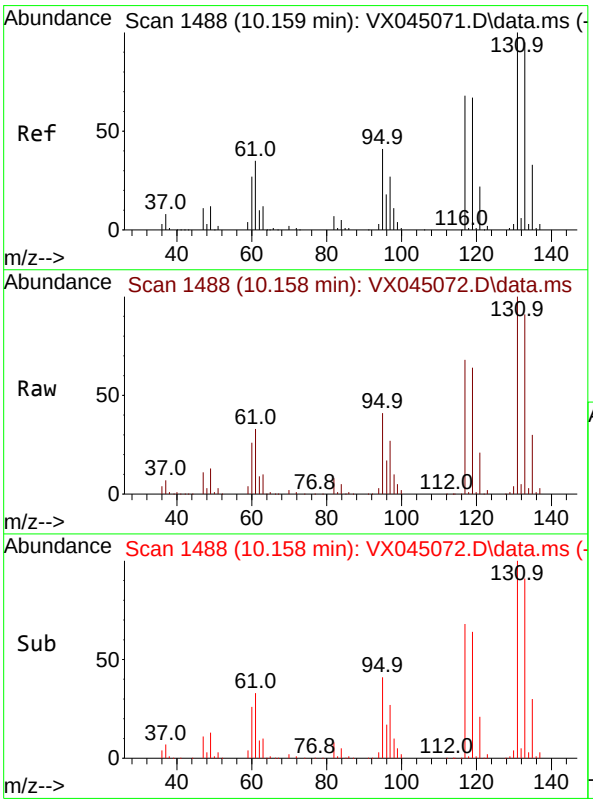
#65
Chlorobenzene
Concen: 102.456 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 332473

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0

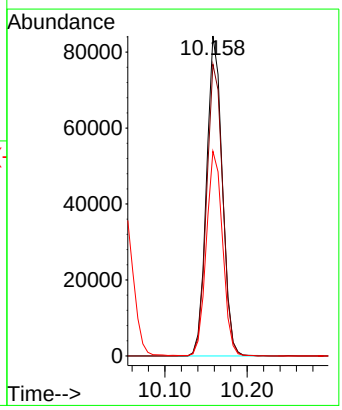


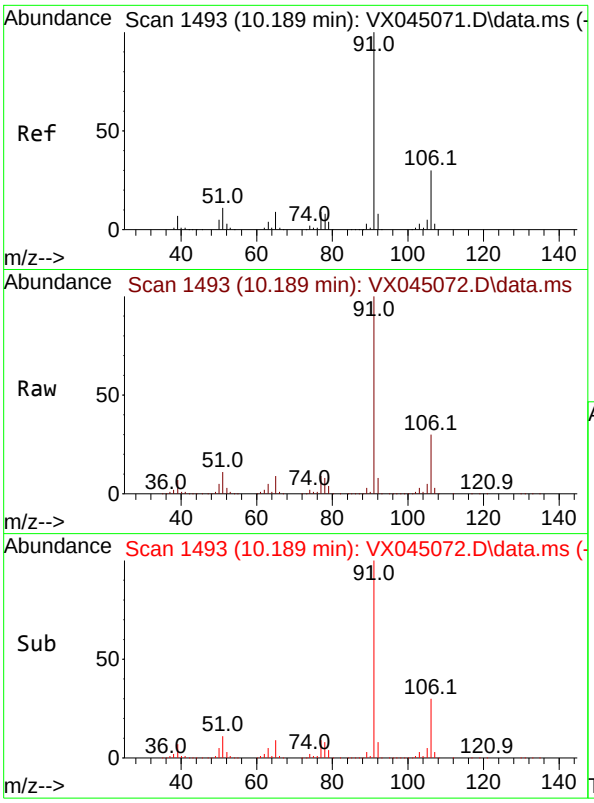


#66
1,1,1,2-Tetrachloroethane
Concen: 107.511 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:131 Resp: 112451

Ion	Ratio	Lower	Upper
131	100		
133	93.1	48.6	145.9
119	65.8	33.9	101.7



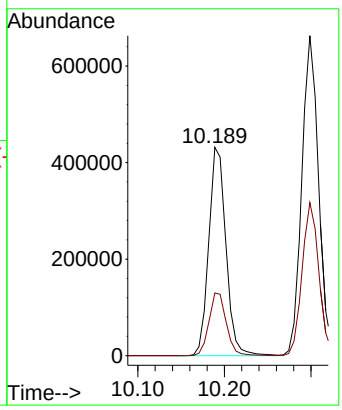


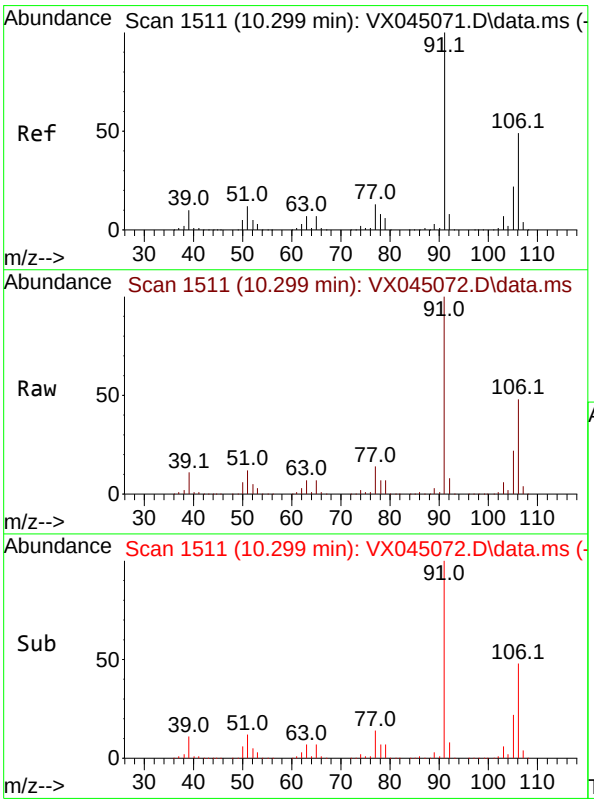
#67
Ethyl Benzene
Concen: 103.905 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 596257

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9

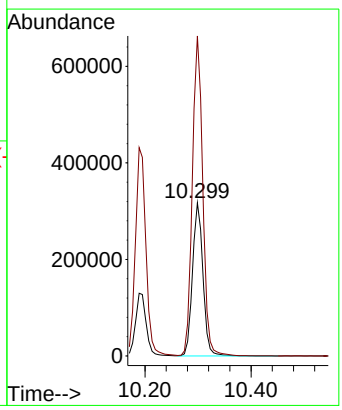


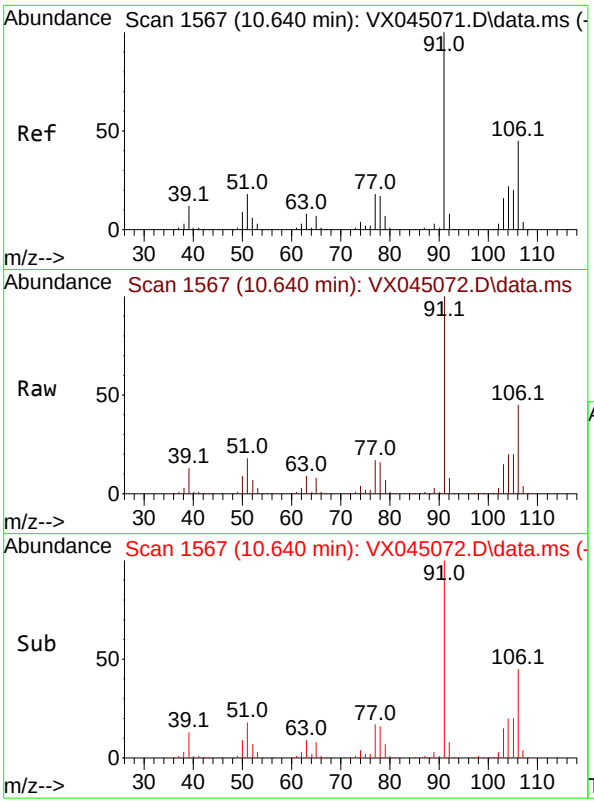


#68
m/p-Xylenes
Concen: 204.507 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:106 Resp: 432214

Ion	Ratio	Lower	Upper
106	100		
91	208.9	165.4	248.0



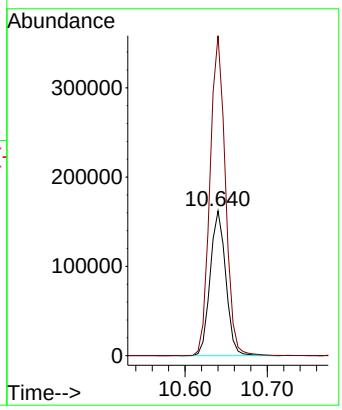


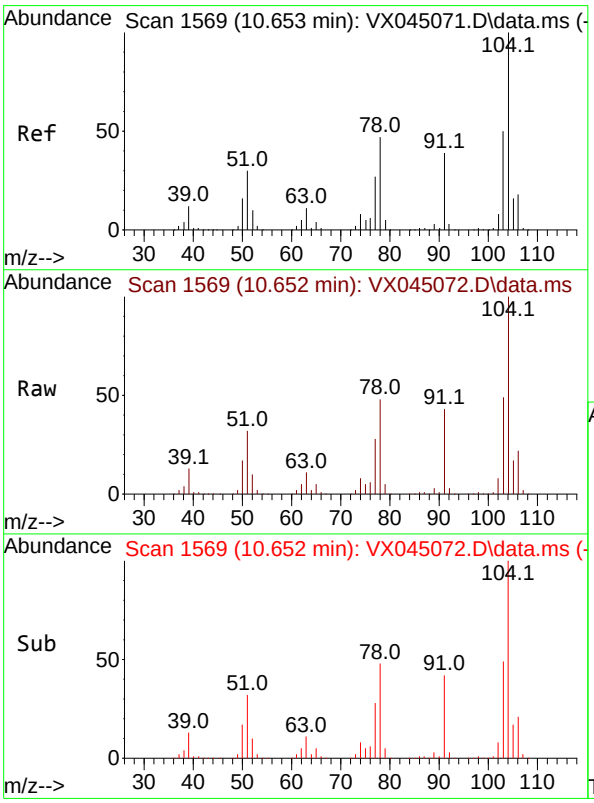
#69
o-Xylene
Concen: 100.849 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 213835

Ion	Ratio	Lower	Upper
106	100		
91	218.2	109.9	329.6

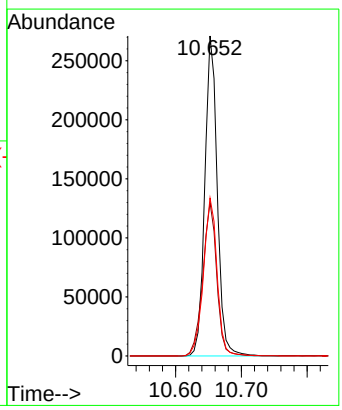


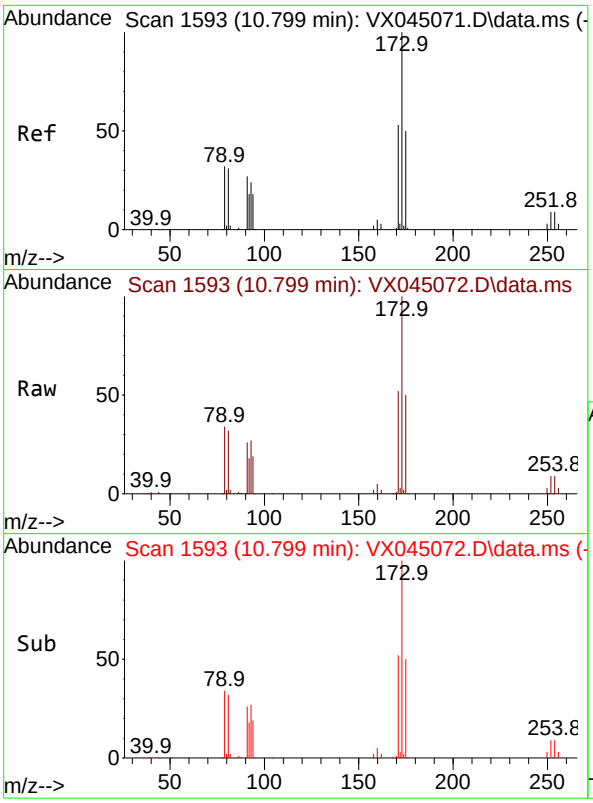


#70
Styrene
Concen: 104.948 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:104 Resp: 357649

Ion	Ratio	Lower	Upper
104	100		
78	53.7	42.2	63.4
103	54.3	43.8	65.8



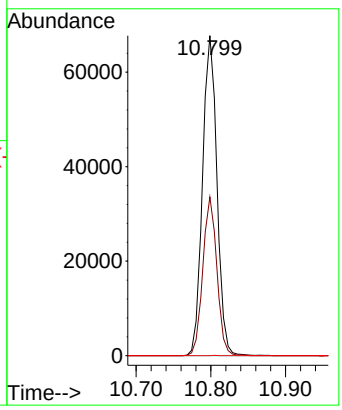


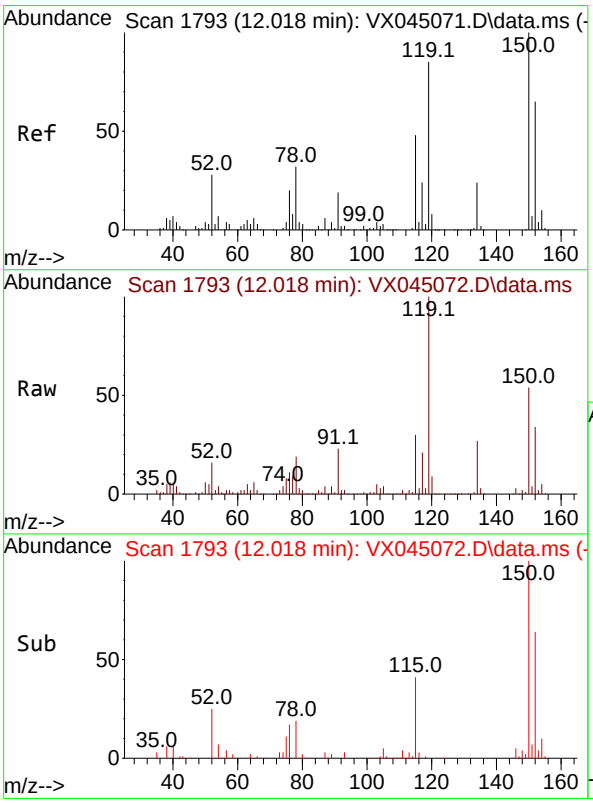
#71
Bromoform
Concen: 116.751 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 90800

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.0	0.0	0.0#

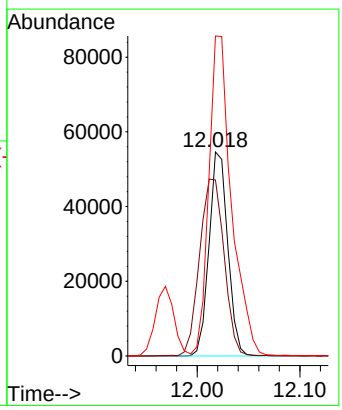


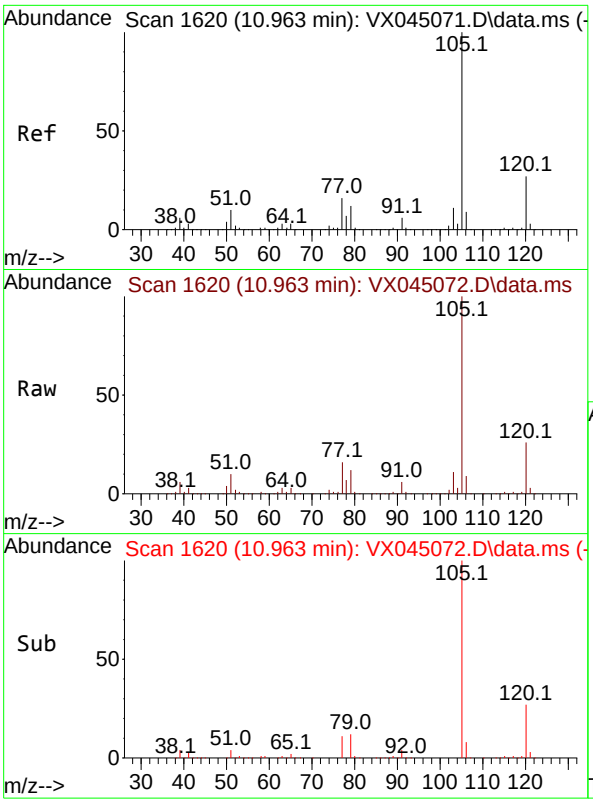


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:152 Resp: 69086

Ion	Ratio	Lower	Upper
152	100		
115	114.1	44.2	132.6
150	190.7	0.0	349.0



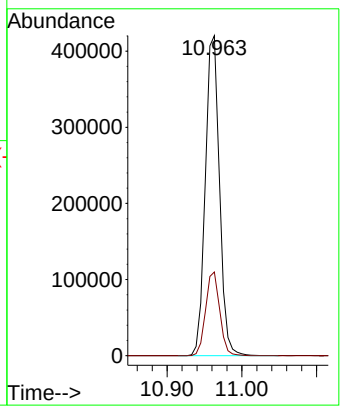


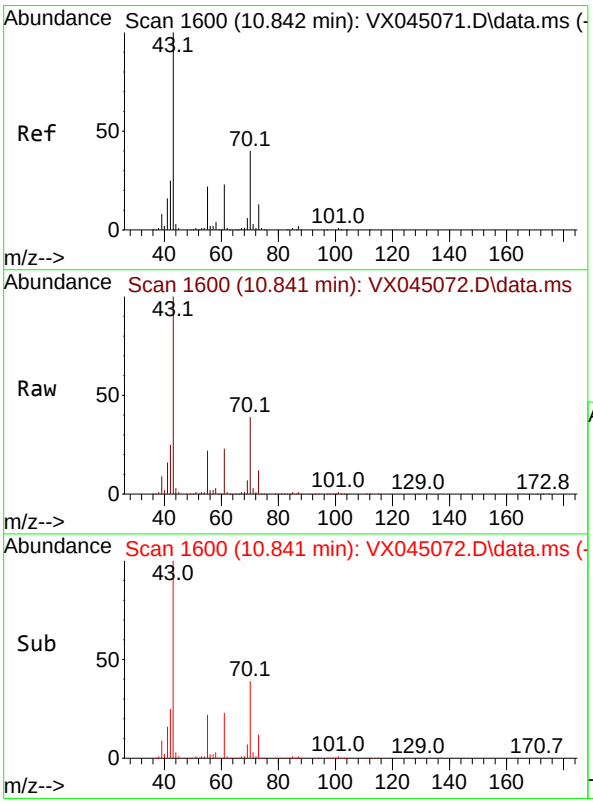
#73
Isopropylbenzene
Concen: 99.138 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 553533

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

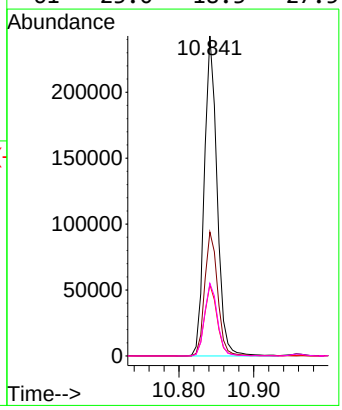


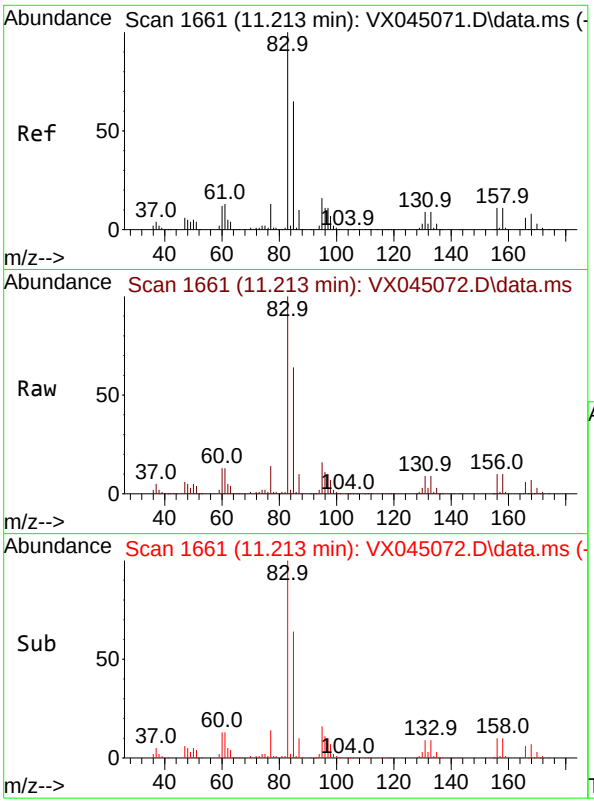


#74
N-amyl acetate
Concen: 113.277 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 287104

Ion	Ratio	Lower	Upper
43	100		
70	39.6	31.8	47.6
55	22.3	18.3	27.5
61	23.0	18.3	27.5



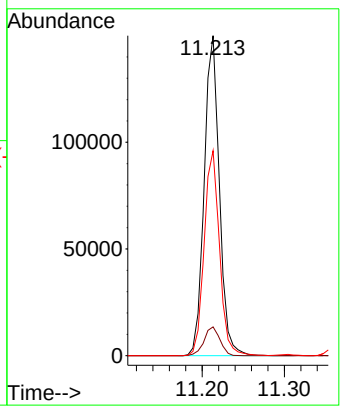


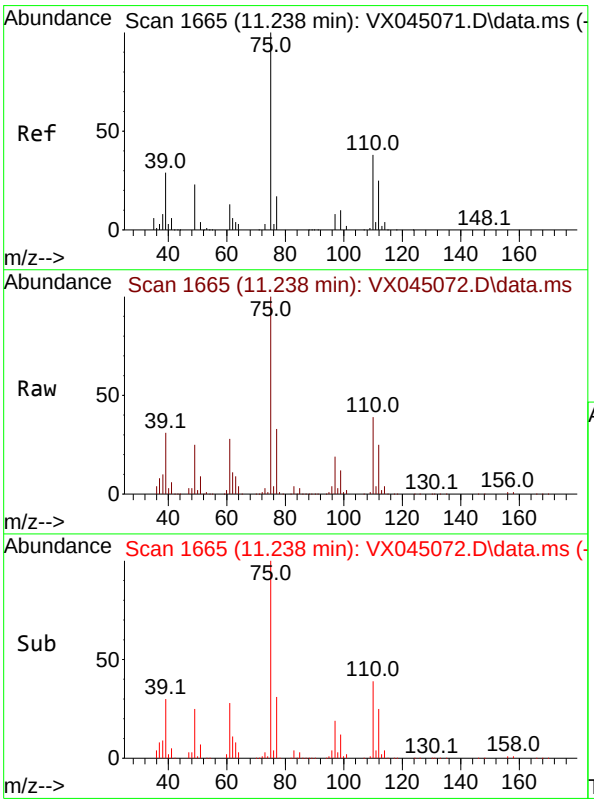
#75
1,1,2,2-Tetrachloroethane
Concen: 99.923 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 192217

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.4
85	64.7	31.7	95.1

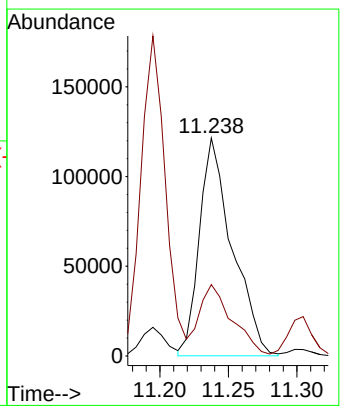


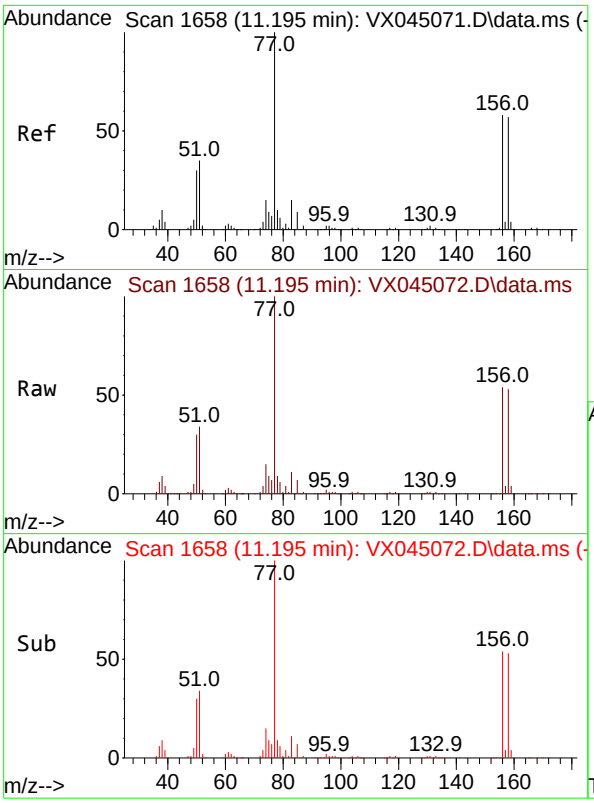


#76
1,2,3-Trichloropropane
Concen: 131.738 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 203020

Ion	Ratio	Lower	Upper
75	100		
77	32.9	20.7	62.1



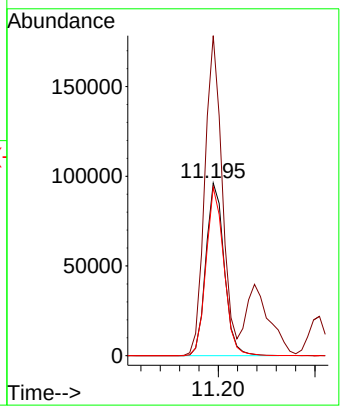


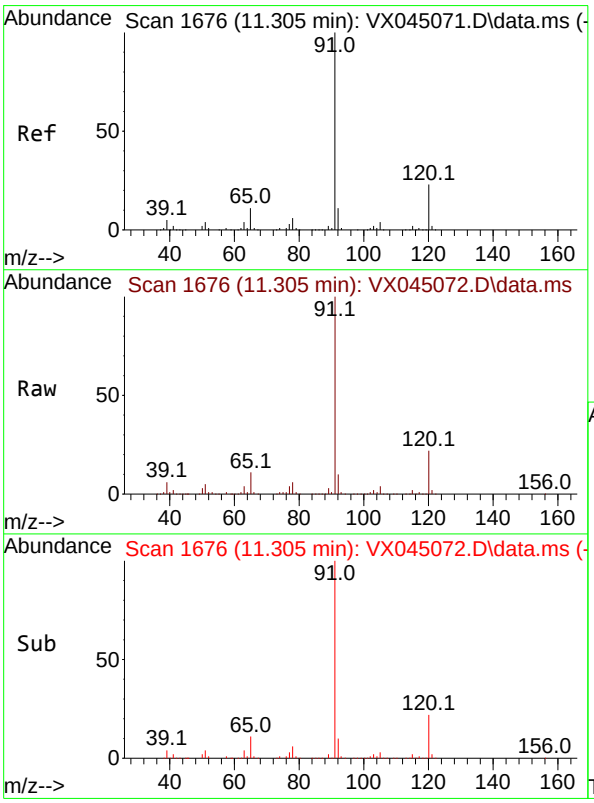
#77
Bromobenzene
Concen: 99.175 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 125700

Ion	Ratio	Lower	Upper
156	100		
77	177.3	85.8	257.4
158	95.9	48.4	145.2

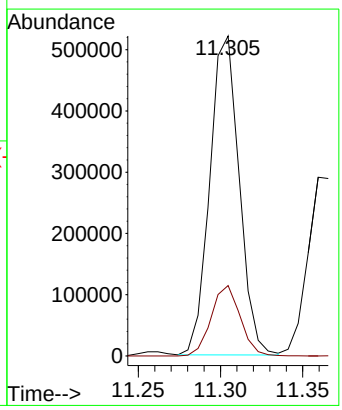


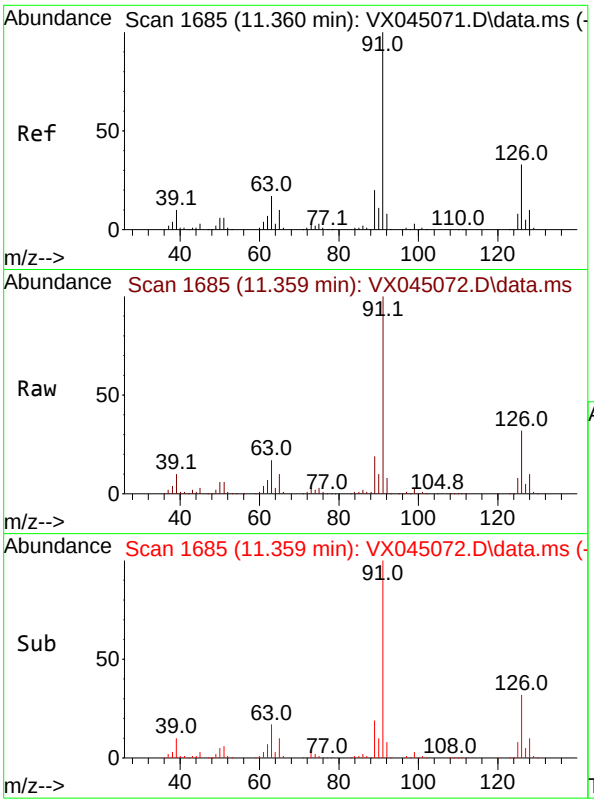


#78
n-propylbenzene
Concen: 100.758 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 648835

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6



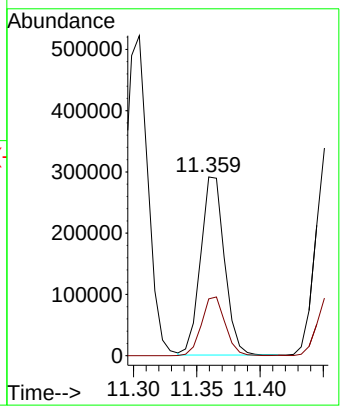


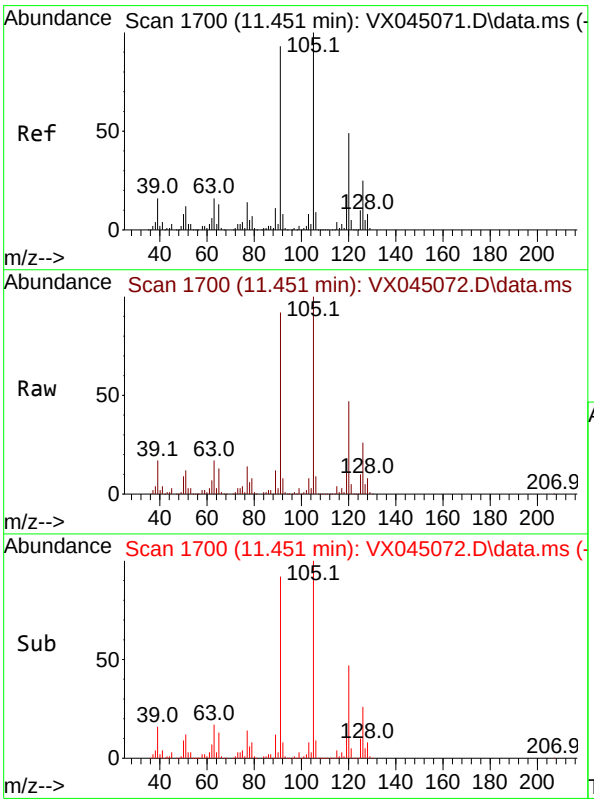
#79
2-Chlorotoluene
Concen: 96.825 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 382703

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.4

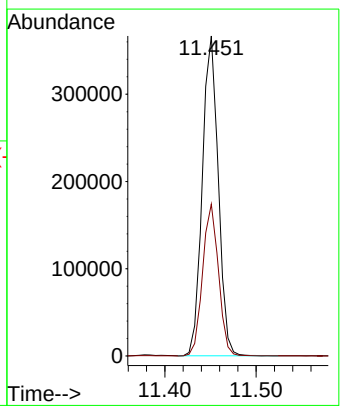


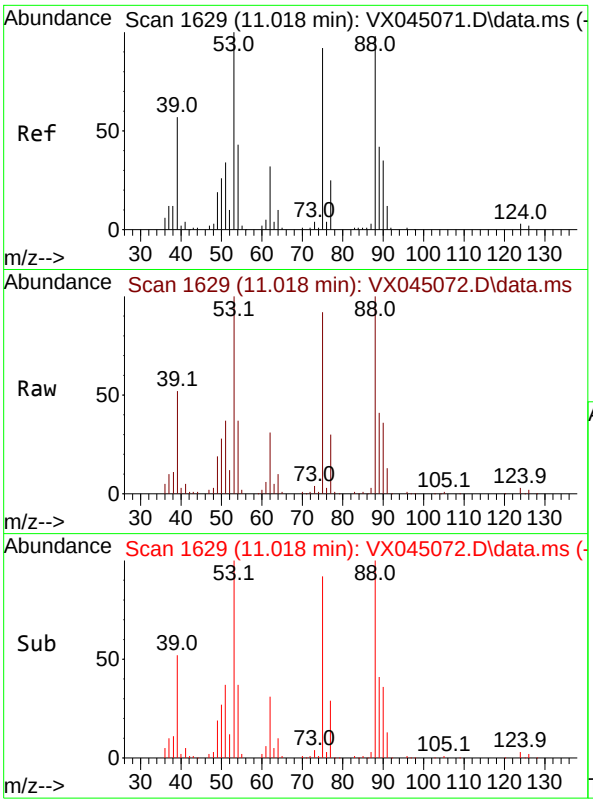


#80
1,3,5-Trimethylbenzene
Concen: 98.356 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 445466

Ion	Ratio	Lower	Upper
105	100		
120	47.1	24.1	72.2



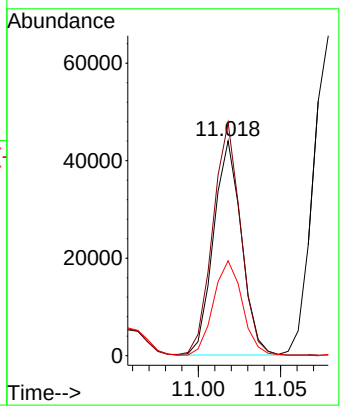


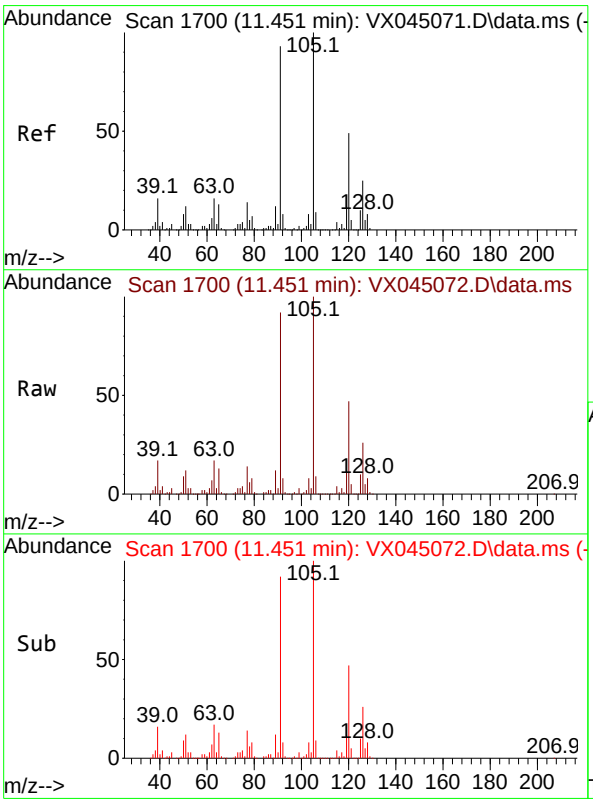
#81
trans-1,4-Dichloro-2-butene
Concen: 91.460 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 51975

Ion	Ratio	Lower	Upper
75	100		
53	109.9	88.5	132.7
89	45.7	36.2	54.4

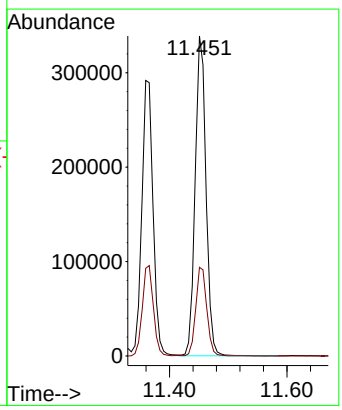


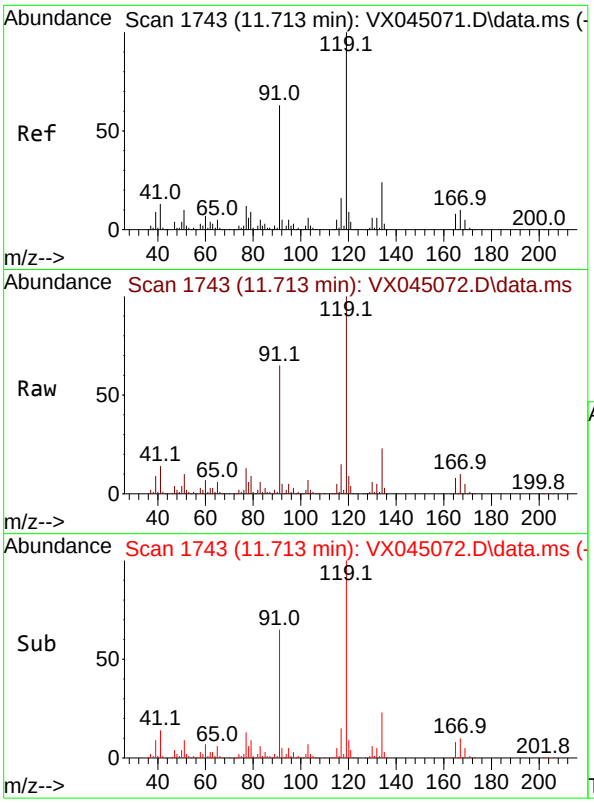


#82
4-Chlorotoluene
Concen: 99.168 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 433881

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.4



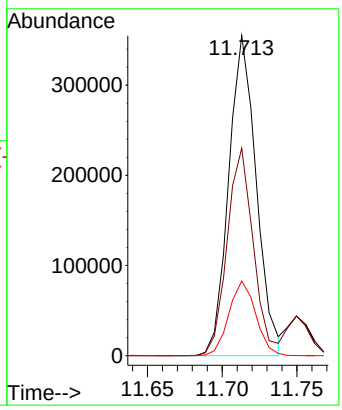


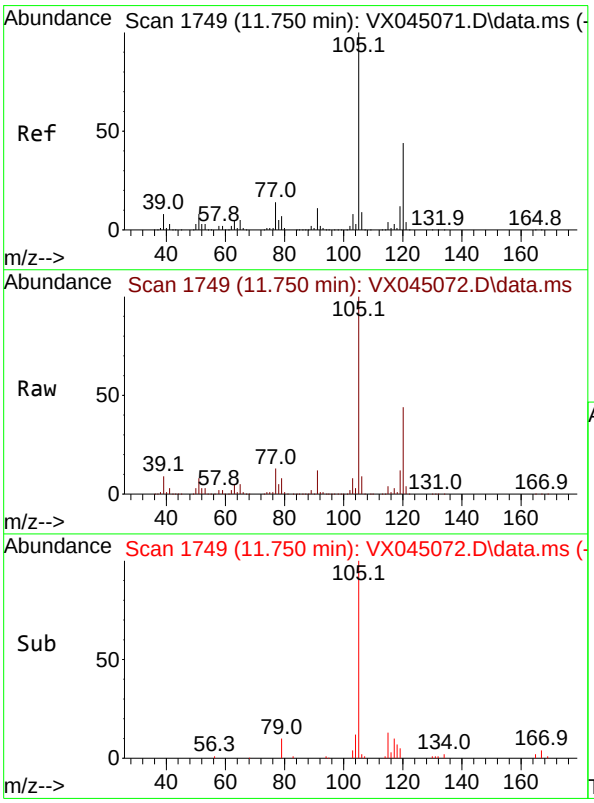
#83
tert-Butylbenzene
Concen: 99.288 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 454859

Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.7	92.1
134	22.8	11.7	35.0

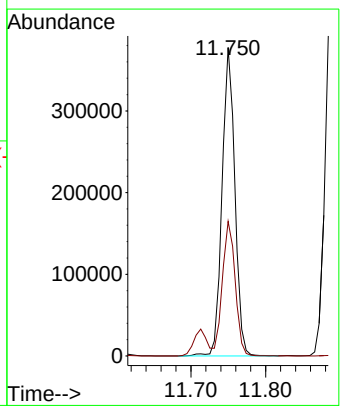


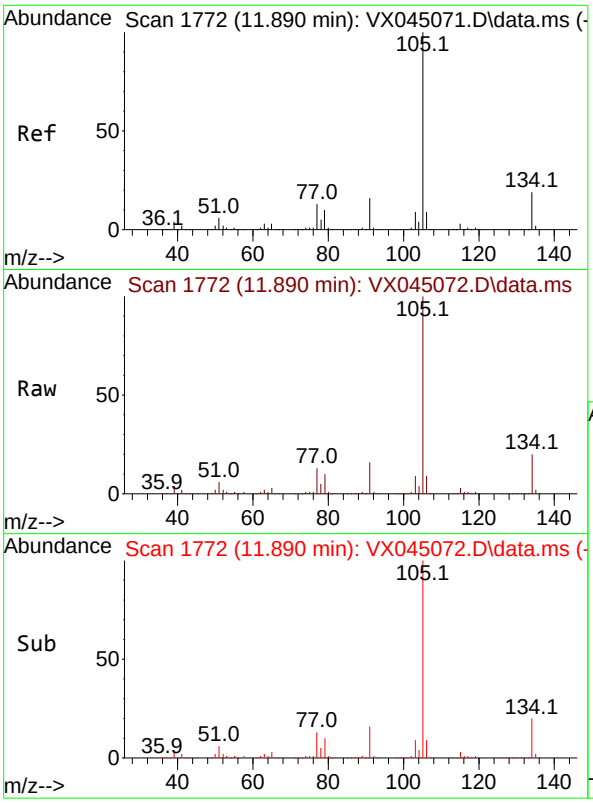


#84
1,2,4-Trimethylbenzene
Concen: 100.926 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 450108

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1



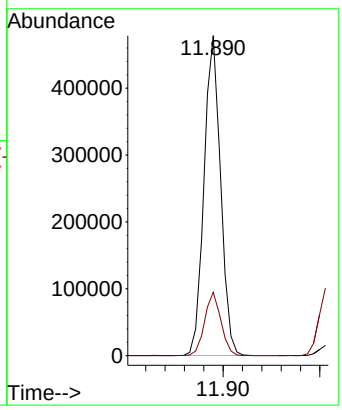


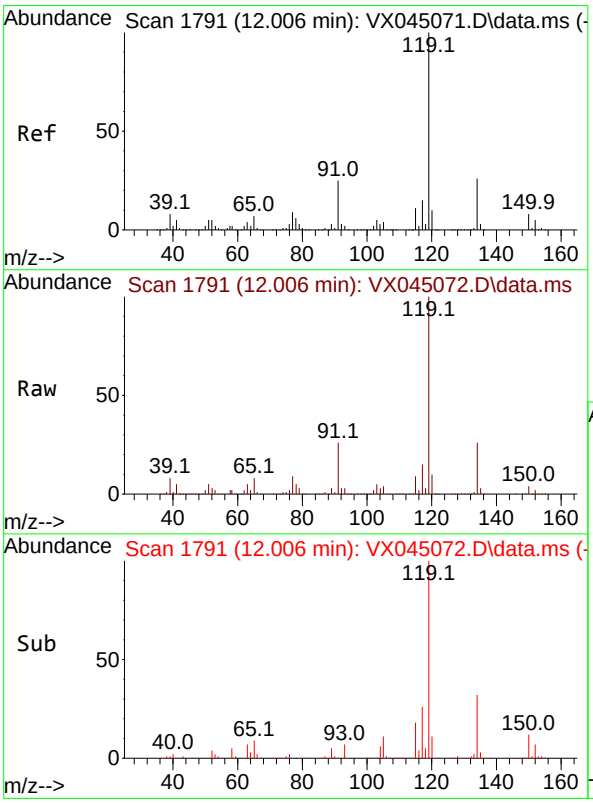
#85
sec-Butylbenzene
Concen: 100.517 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 570006

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

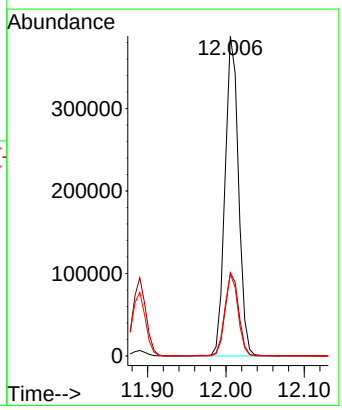


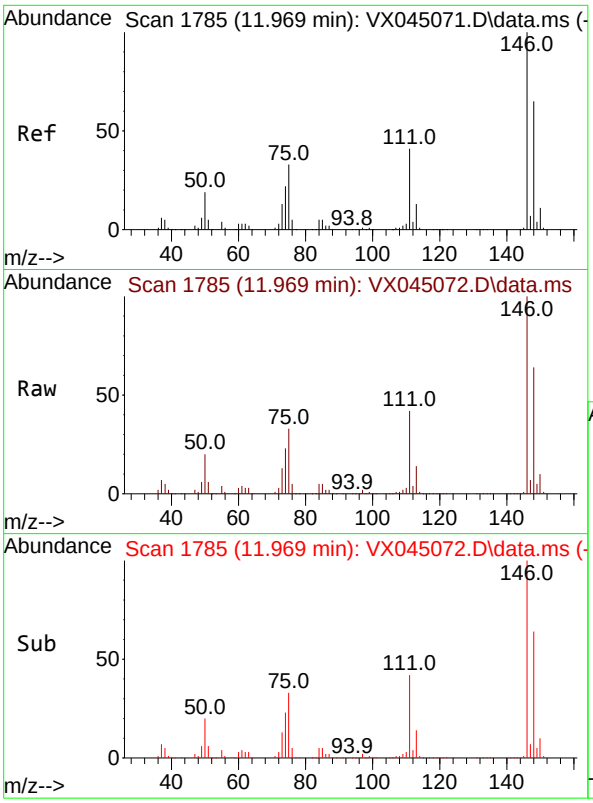


#86
p-Isopropyltoluene
Concen: 102.252 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:119 Resp: 465512

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.6
91	25.3	12.7	38.0



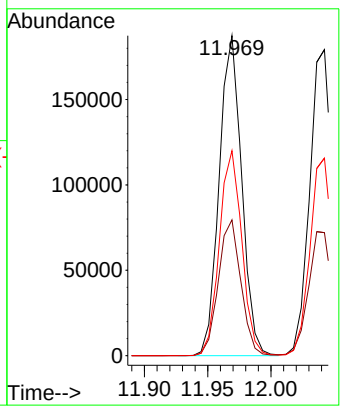


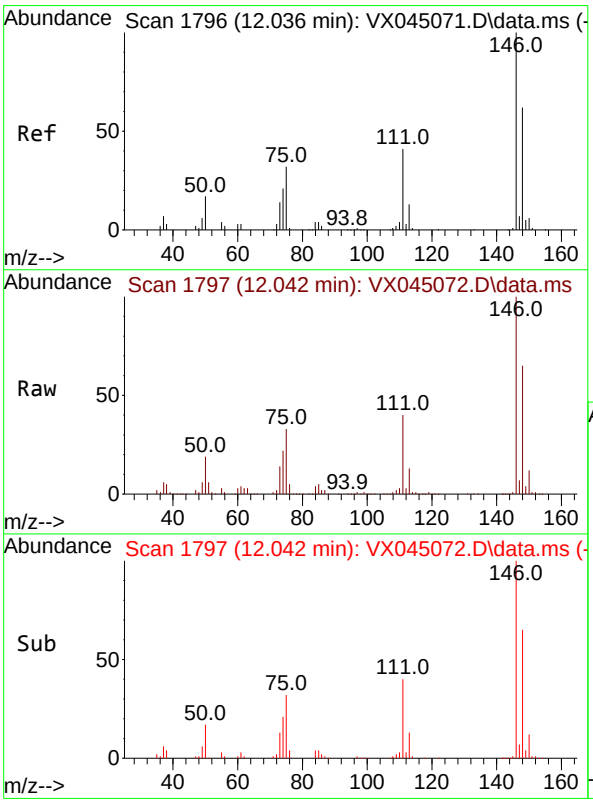
#87
1,3-Dichlorobenzene
Concen: 99.903 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 231440

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.1	63.4
148	64.1	31.9	95.7

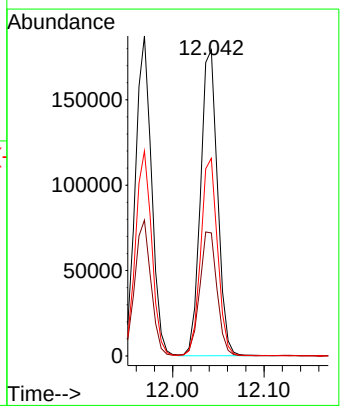


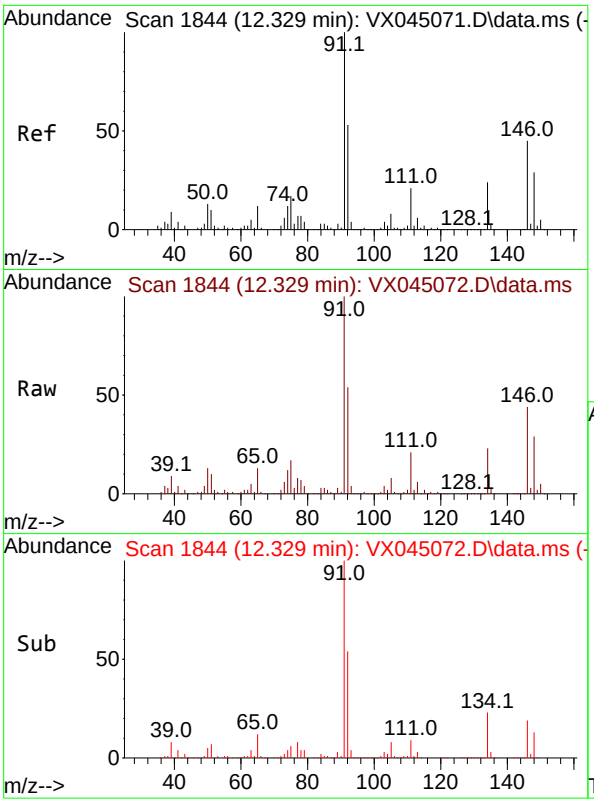


#88
1,4-Dichlorobenzene
Concen: 98.355 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:146 Resp: 230663

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.5
148	63.9	31.9	95.9



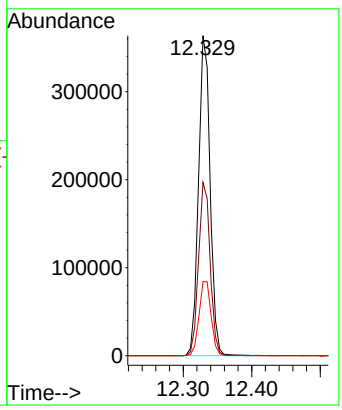


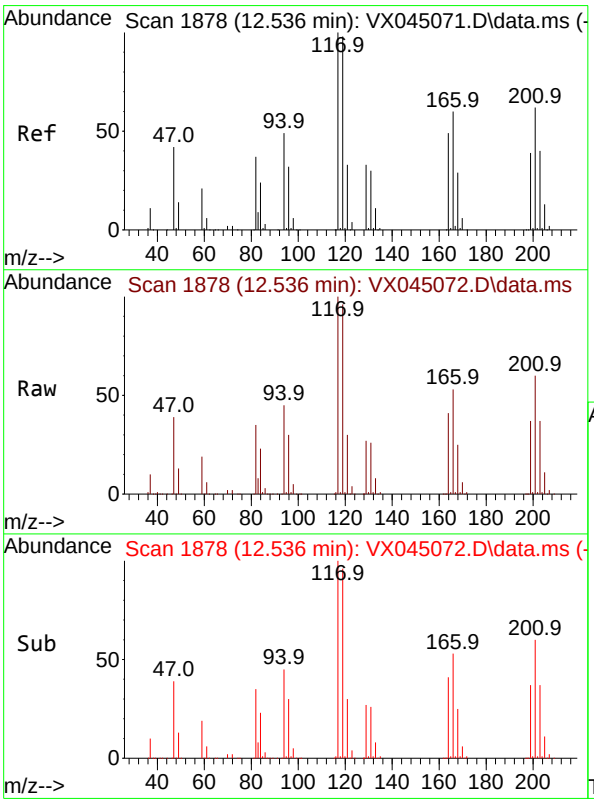
#89
n-Butylbenzene
Concen: 107.000 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 428209

Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.7	80.0
134	24.2	12.2	36.6

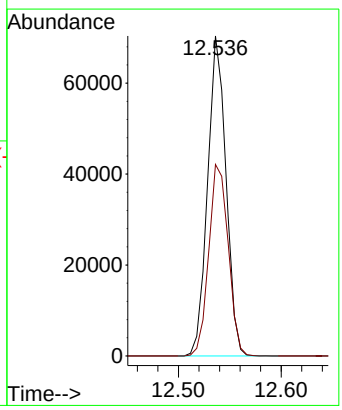


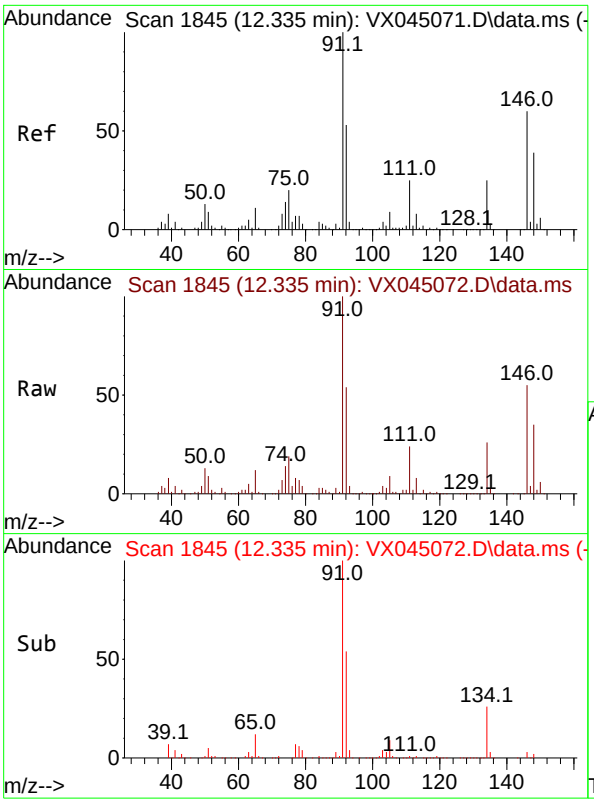


#90
Hexachloroethane
Concen: 102.980 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 87448

Ion	Ratio	Lower	Upper
117	100		
201	63.4	31.9	95.9



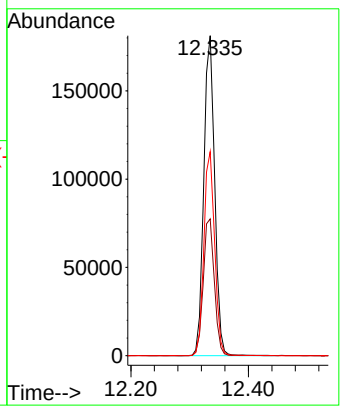


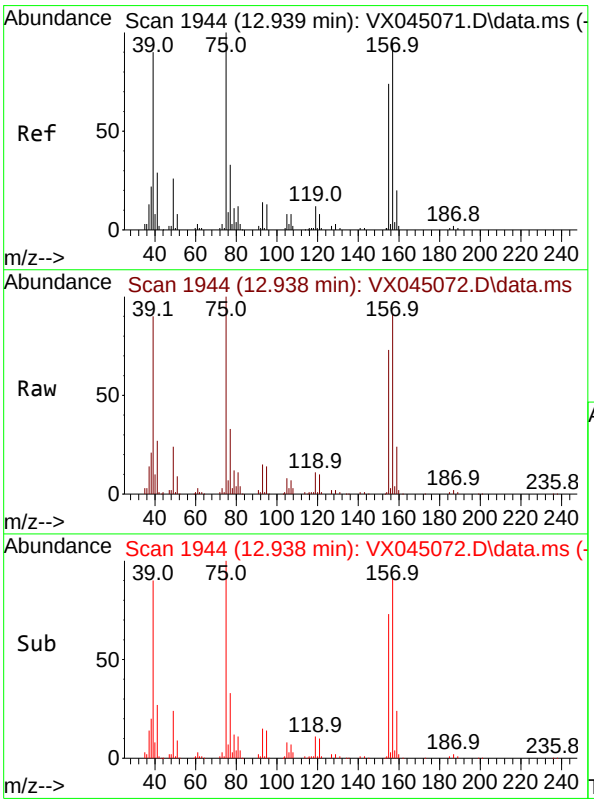
#91
1,2-Dichlorobenzene
Concen: 102.254 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 233125

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	65.0
148	63.2	31.9	95.9

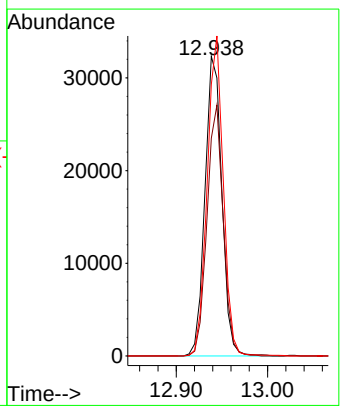


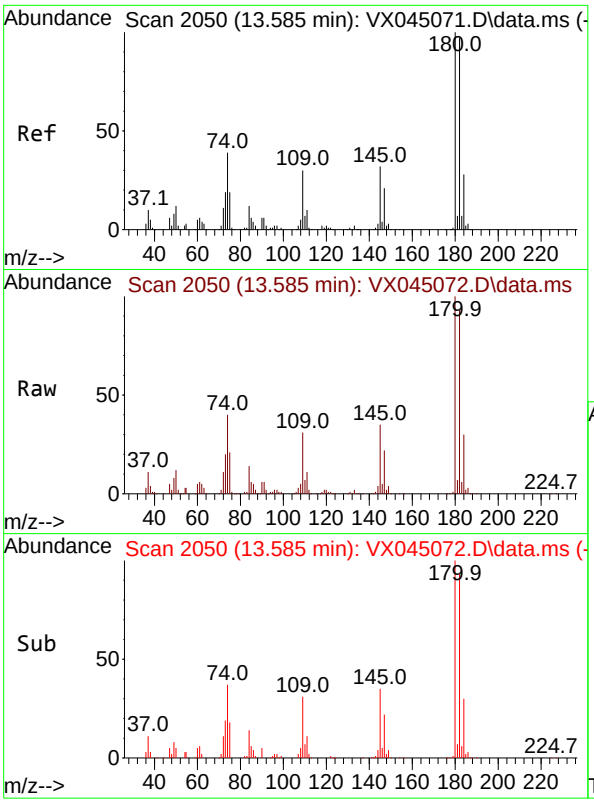


#92
1,2-Dibromo-3-Chloropropane
Concen: 116.296 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 41402

Ion	Ratio	Lower	Upper
75	100		
155	80.6	39.6	118.7
157	101.8	51.1	153.4



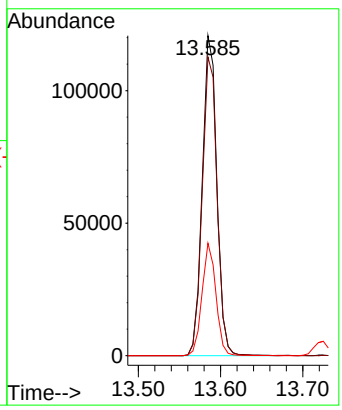


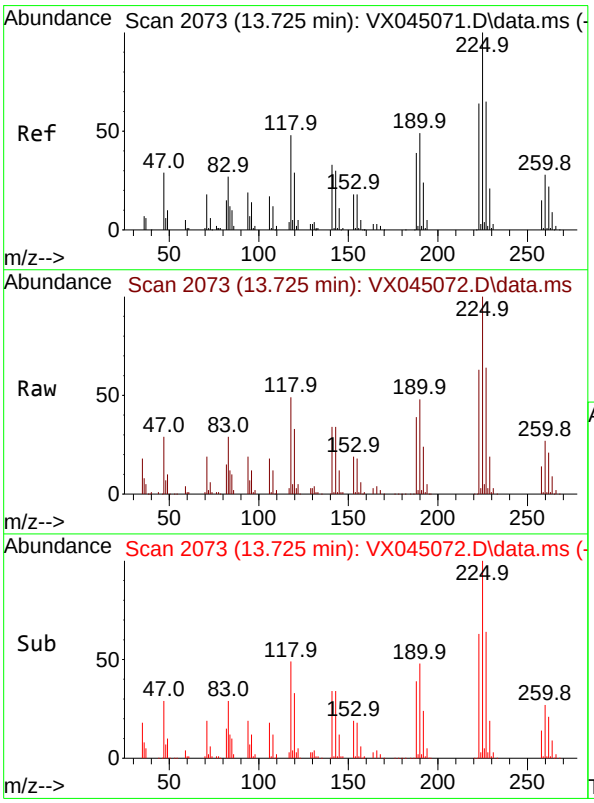
#93
1,2,4-Trichlorobenzene
Concen: 107.648 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 148368

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.3	141.9
145	33.6	16.3	48.9

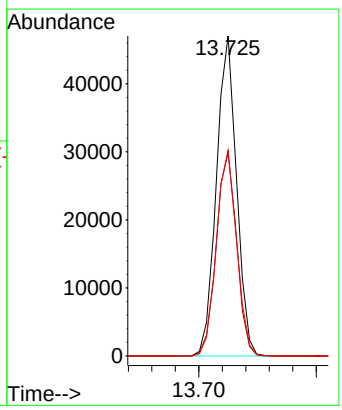


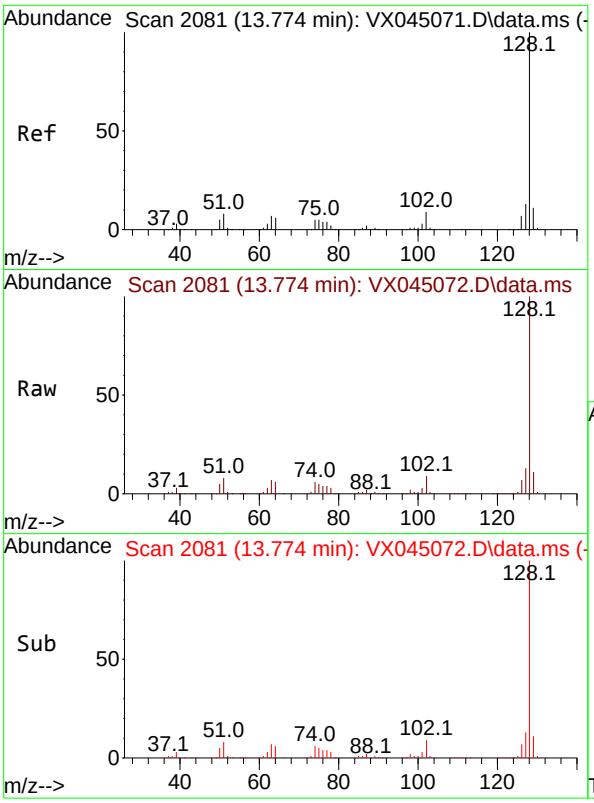


#94
Hexachlorobutadiene
Concen: 102.019 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:225 Resp: 56065

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.9	95.7
227	64.4	31.4	94.0



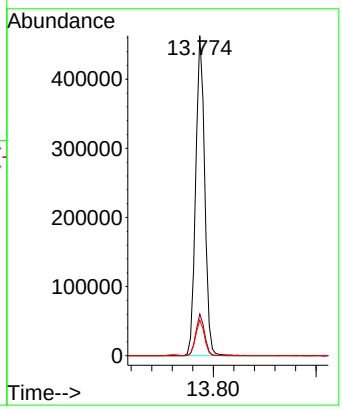


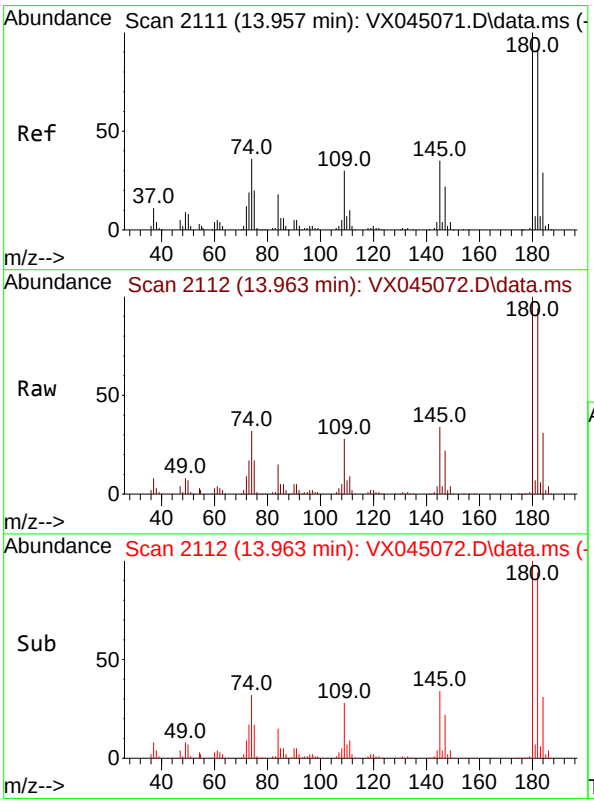
#95
Naphthalene
Concen: 112.593 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 565250

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.9	8.7	13.1

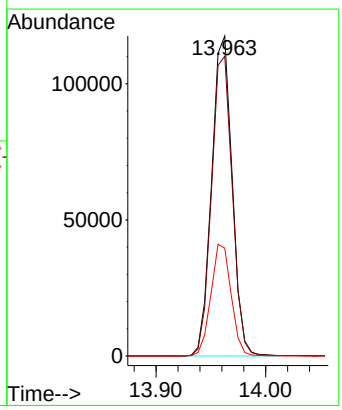




#96
1,2,3-Trichlorobenzene
Concen: 109.554 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:180 Resp: 152970

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.6
145	34.5	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	95754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	176991	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	150547	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67685	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	234624	165.865	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 331.740%#			
35) Dibromofluoromethane	5.379	113	179722	155.359	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 310.720%#			
50) Toluene-d8	8.647	98	638979	147.538	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.080%#			
62) 4-Bromofluorobenzene	11.079	95	223346	154.420	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 308.840%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	174297	132.067	ug/l	96
3) Chloromethane	1.307	50	213704	133.072	ug/l	97
4) Vinyl Chloride	1.374	62	217672	138.774	ug/l	97
5) Bromomethane	1.593	94	83547	170.379	ug/l	98
6) Chloroethane	1.660	64	82101	137.509	ug/l	95
7) Trichlorofluoromethane	1.861	101	272235	135.494	ug/l	98
8) Diethyl Ether	2.136	74	110005	150.660	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	161825	134.877	ug/l	99
10) Methyl Iodide	2.441	142	212355	138.059	ug/l	99
11) Tert butyl alcohol	3.014	59	195415	754.176	ug/l	97
12) 1,1-Dichloroethene	2.300	96	173271	140.655	ug/l	96
13) Acrolein	2.239	56	263999	940.846	ug/l	98
14) Allyl chloride	2.654	41	308018	139.077	ug/l	98
15) Acrylonitrile	3.069	53	573208	813.990	ug/l	99
16) Acetone	2.392	43	511828	879.387	ug/l	100
17) Carbon Disulfide	2.495	76	487720	145.511	ug/l	98
18) Methyl Acetate	2.709	43	258303	147.347	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	619778	157.358	ug/l	99
20) Methylene Chloride	2.782	84	202913	147.198	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	176924	146.027	ug/l	98
22) Diisopropyl ether	3.764	45	662828	156.526	ug/l	98
23) Vinyl Acetate	3.721	43	2943150	846.586	ug/l	99
24) 1,1-Dichloroethane	3.605	63	363081	153.453	ug/l	99
25) 2-Butanone	4.568	43	818497	872.239	ug/l	99
26) 2,2-Dichloropropane	4.465	77	179826	102.231	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	220826	151.205	ug/l	98
28) Bromochloromethane	4.891	49	171273	150.105	ug/l	100
29) Tetrahydrofuran	5.007	42	528574	850.174	ug/l	99
30) Chloroform	5.093	83	351934	152.067	ug/l	97
31) Cyclohexane	5.458	56	302215	139.174	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	294434	151.120	ug/l	100
36) 1,1-Dichloropropene	5.684	75	241405	145.112	ug/l	100
37) Ethyl Acetate	4.721	43	316250	167.067	ug/l	99
38) Carbon Tetrachloride	5.672	117	245917	150.363	ug/l	99
39) Methylcyclohexane	7.373	83	292216	137.544	ug/l	97
40) Benzene	6.031	78	755854	145.368	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	175023	173.088	ug/l		99
42) 1,2-Dichloroethane	6.080	62	276129	163.872	ug/l		99
43) Isopropyl Acetate	6.342	43	511643	169.804	ug/l		99
44) Trichloroethene	7.123	130	178483	150.181	ug/l		97
45) 1,2-Dichloropropane	7.428	63	198135	153.334	ug/l		100
46) Dibromomethane	7.580	93	142119	157.443	ug/l		99
47) Bromodichloromethane	7.818	83	280255	160.492	ug/l		99
48) Methyl methacrylate	7.696	41	252275	176.370	ug/l		99
49) 1,4-Dioxane	7.665	88	96268	3166.423	ug/l		99
51) 4-Methyl-2-Pentanone	8.580	43	1536157	832.051	ug/l		99
52) Toluene	8.714	92	448664	145.321	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	266444	154.373	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	293521	152.117	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	178217	149.046	ug/l		98
56) Ethyl methacrylate	9.116	69	310992	162.631	ug/l		98
57) 1,3-Dichloropropane	9.305	76	312196	149.699	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	717328	764.019	ug/l		99
59) 2-Hexanone	9.433	43	1156653	868.492	ug/l		100
60) Dibromochloromethane	9.519	129	201906	158.276	ug/l		99
61) 1,2-Dibromoethane	9.610	107	185828	154.074	ug/l		100
64) Tetrachloroethene	9.269	164	139536	145.906	ug/l		94
65) Chlorobenzene	10.079	112	472117	146.096	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	163370	156.845	ug/l		97
67) Ethyl Benzene	10.189	91	852575	149.191	ug/l		99
68) m/p-Xylenes	10.299	106	607523	288.655	ug/l		97
69) o-Xylene	10.640	106	302495	143.259	ug/l		99
70) Styrene	10.653	104	512379	150.979	ug/l		99
71) Bromoform	10.799	173	135388	174.808	ug/l	#	99
73) Isopropylbenzene	10.963	105	780706	142.719	ug/l		99
74) N-amyl acetate	10.842	43	429686	173.042	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	283558	150.458	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	303633	201.103	ug/l		86
77) Bromobenzene	11.195	156	180997	145.760	ug/l		96
78) n-propylbenzene	11.305	91	923593	146.395	ug/l		99
79) 2-Chlorotoluene	11.366	91	548695	141.695	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	635832	143.293	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	82267	147.761	ug/l		98
82) 4-Chlorotoluene	11.451	91	627816	146.464	ug/l		99
83) tert-Butylbenzene	11.713	119	641713	142.974	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	647248	148.135	ug/l		100
85) sec-Butylbenzene	11.890	105	807713	145.383	ug/l		100
86) p-Isopropyltoluene	12.006	119	664916	149.075	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	334751	147.488	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	333594	145.189	ug/l		99
89) n-Butylbenzene	12.329	91	620757	158.324	ug/l		99
90) Hexachloroethane	12.536	117	128582	154.554	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	329318	147.436	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64958	186.240	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	219313	162.416	ug/l		99
94) Hexachlorobutadiene	13.725	225	80241	149.034	ug/l		99
95) Naphthalene	13.774	128	828949	168.538	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	222608	162.727	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

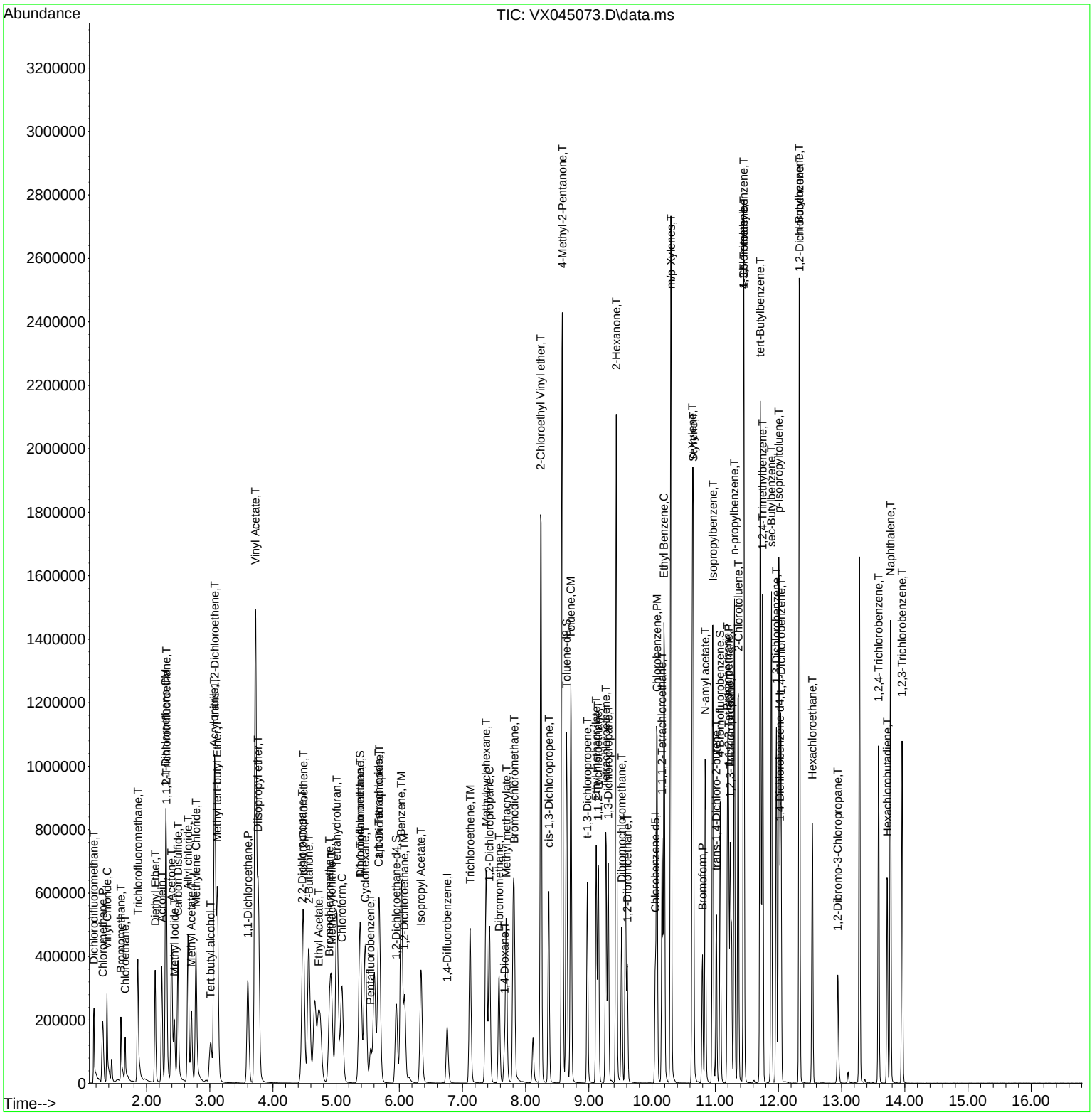
(#) = qualifier out of range (m) = manual integration (+) = signals summed

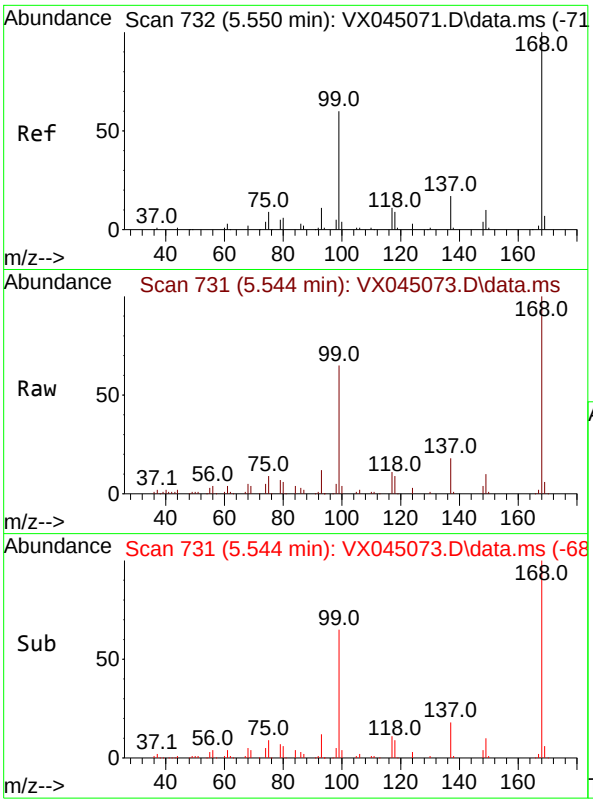
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration



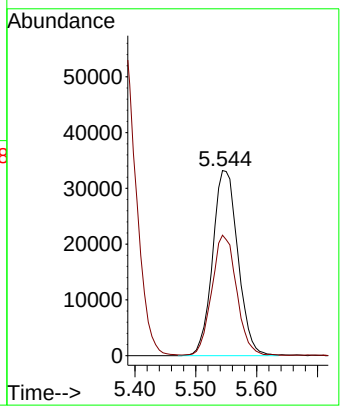


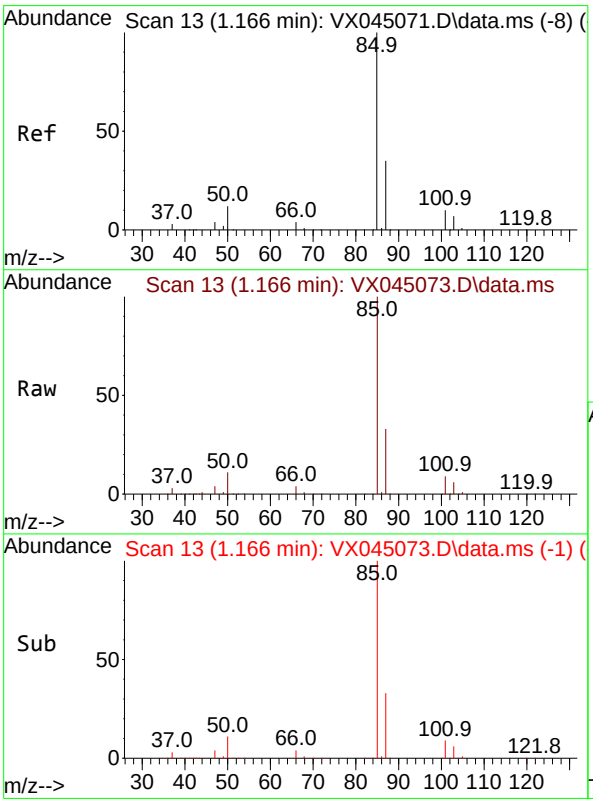
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 95754

Ion	Ratio	Lower	Upper
168	100		
99	64.8	48.2	72.4

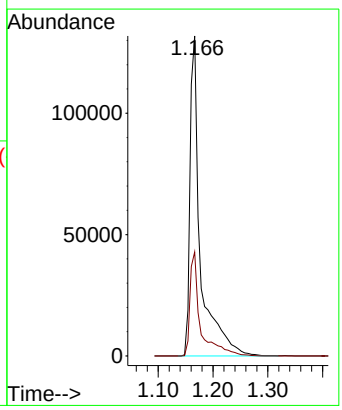


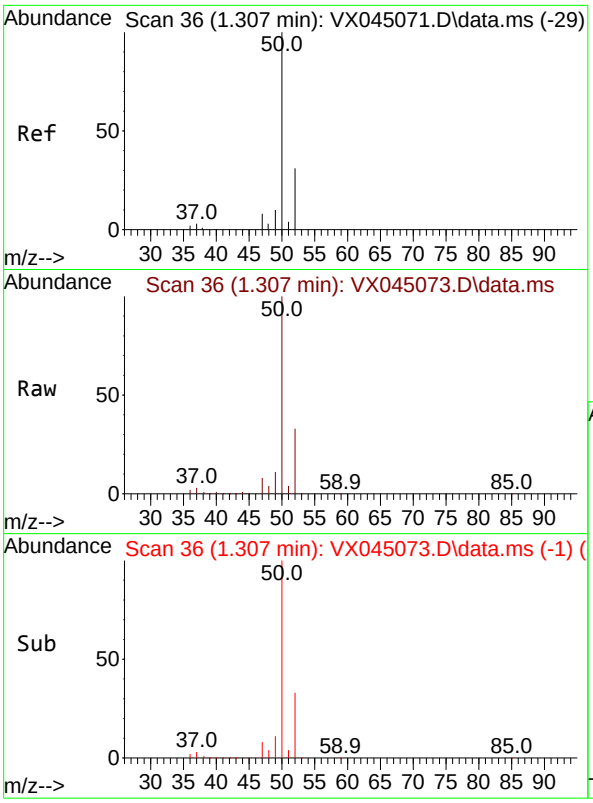


#2
Dichlorodifluoromethane
Concen: 132.067 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 85 Resp: 174297

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.4	52.3



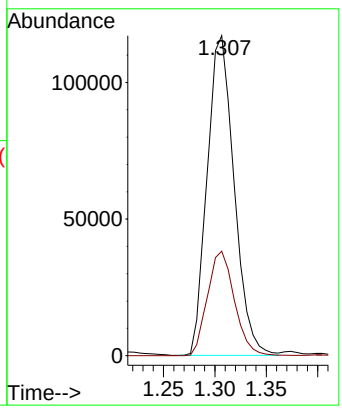


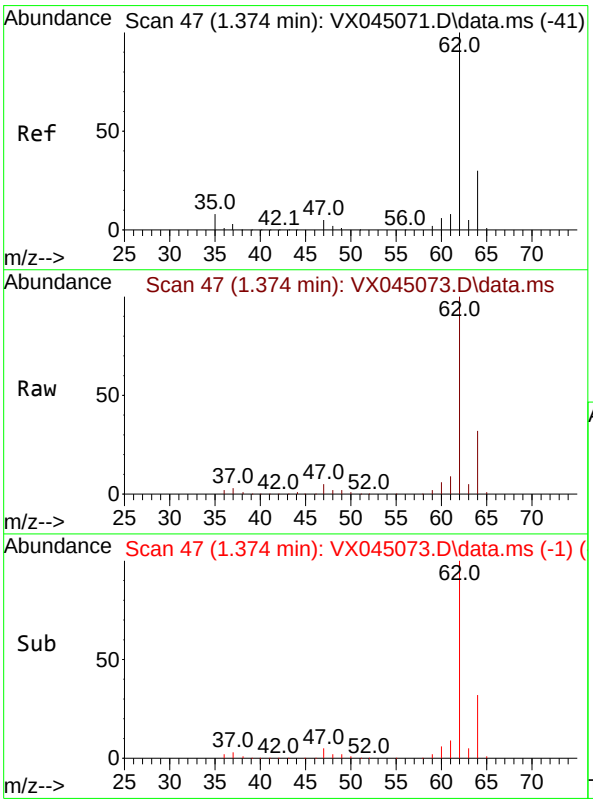
#3
Chloromethane
Concen: 133.072 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 213704

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.0	37.4

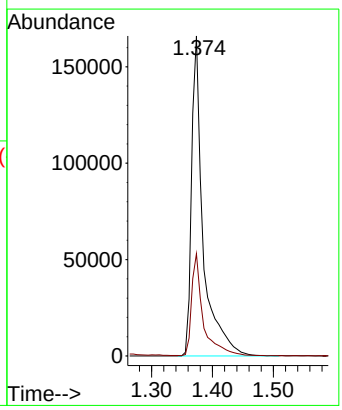


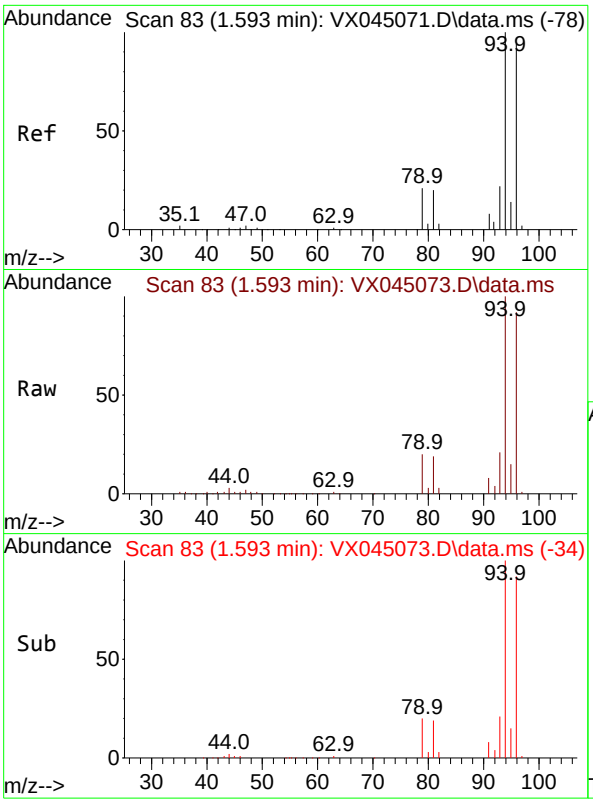


#4
Vinyl Chloride
Concen: 138.774 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 217672

Ion	Ratio	Lower	Upper
62	100		
64	31.8	24.3	36.5



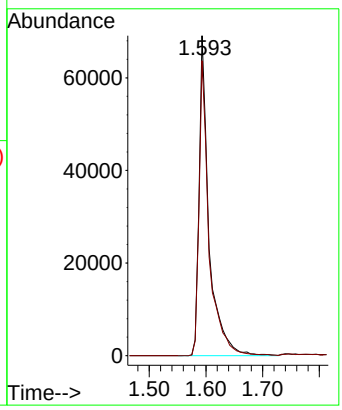


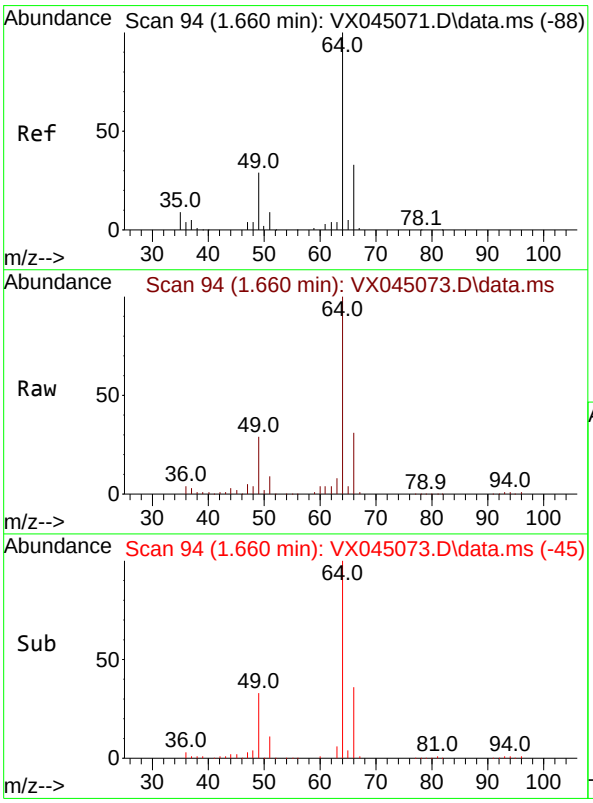
#5
Bromomethane
Concen: 170.379 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 83547

Ion	Ratio	Lower	Upper
94	100		
96	92.2	75.0	112.4

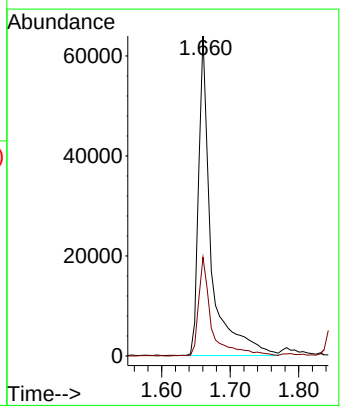


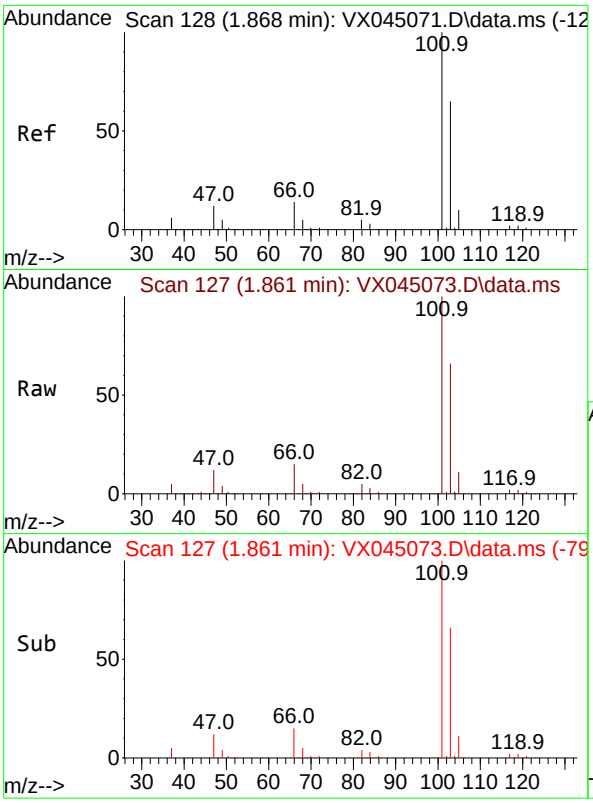


#6
Chloroethane
Concen: 137.509 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 64 Resp: 82101

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.7	40.1



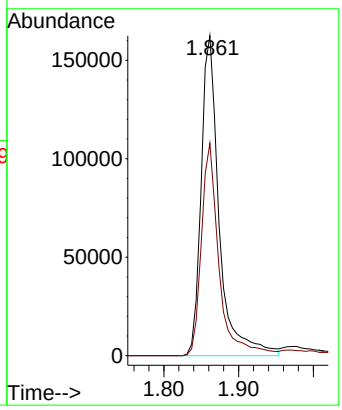


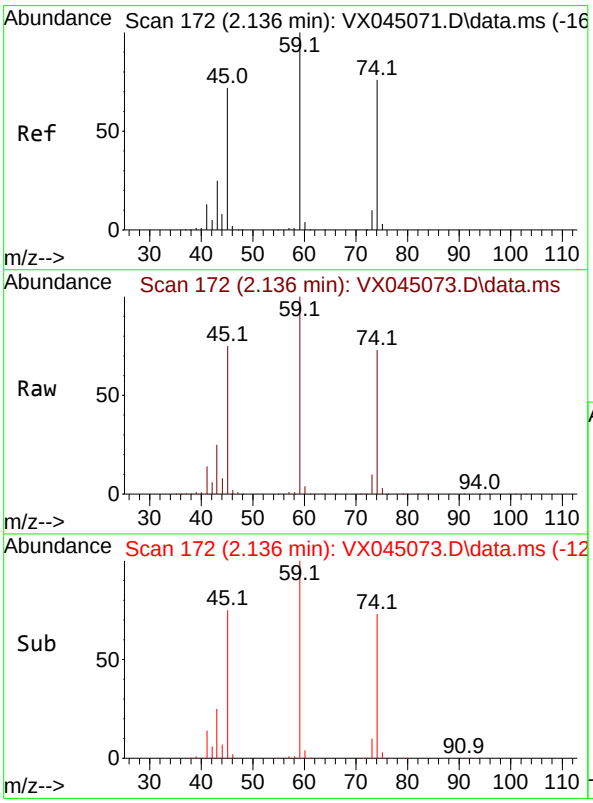
#7
Trichlorofluoromethane
Concen: 135.494 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 272235

Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.1	78.1

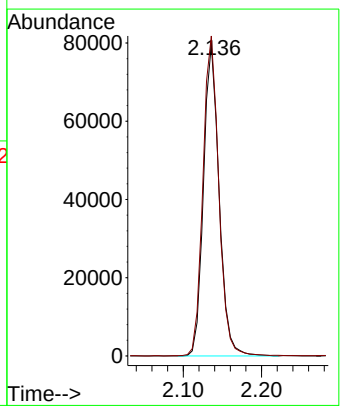


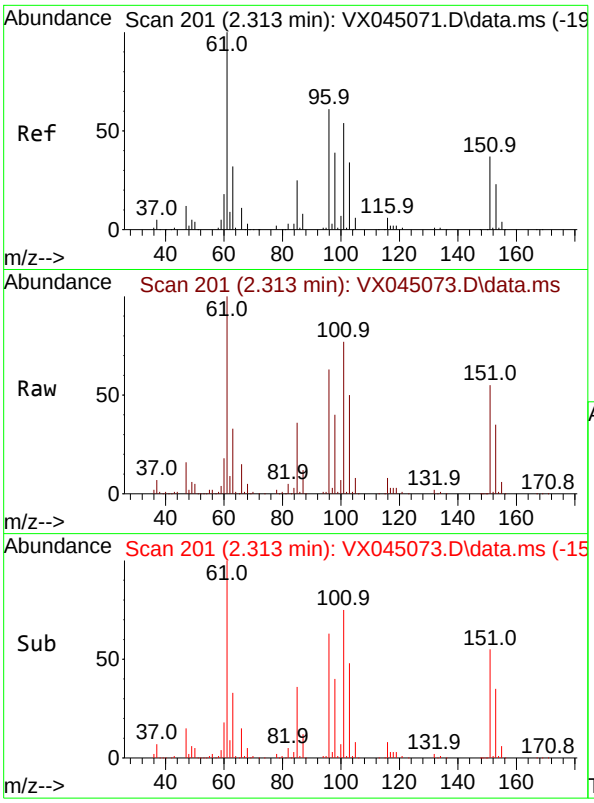


#8
Diethyl Ether
Concen: 150.660 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 74 Resp: 110005

Ion	Ratio	Lower	Upper
74	100		
45	104.9	51.5	154.5



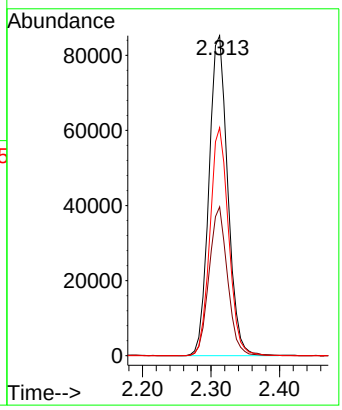


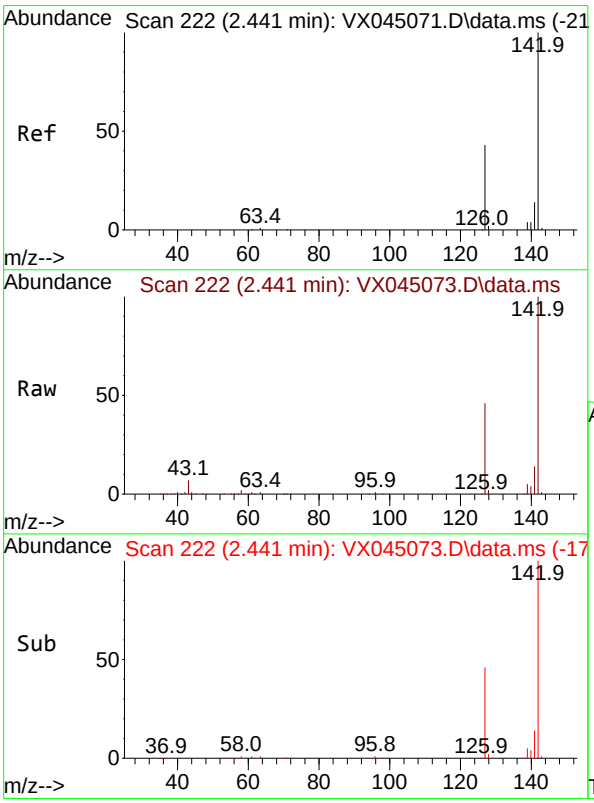
#9
1,1,2-Trichlorotrifluoroethane
Concen: 134.877 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 161825

Ion	Ratio	Lower	Upper
101	100		
85	45.8	36.2	54.4
151	70.8	56.4	84.6

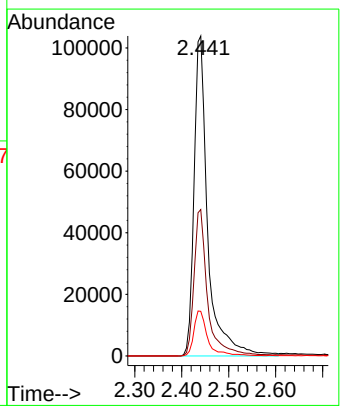


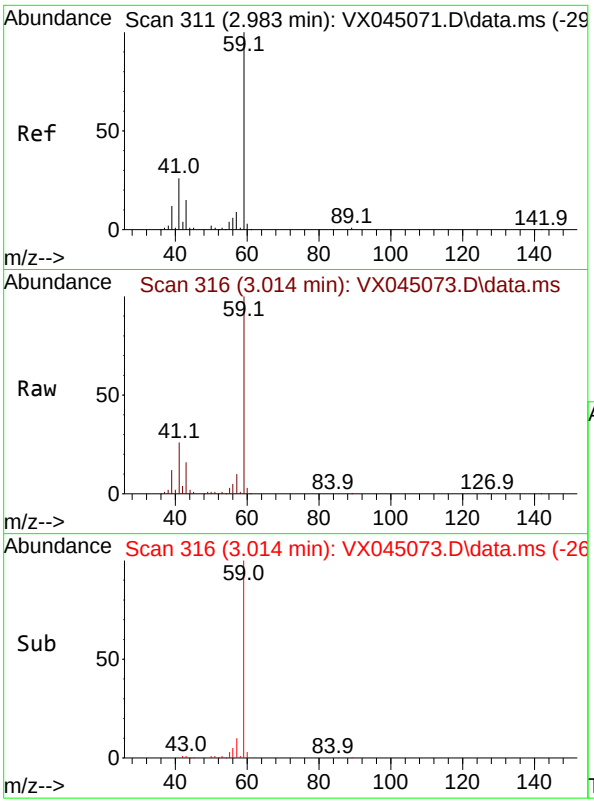


#10
Methyl Iodide
Concen: 138.059 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:142 Resp: 212355

Ion	Ratio	Lower	Upper
142	100		
127	45.2	35.4	53.2
141	14.3	11.6	17.4



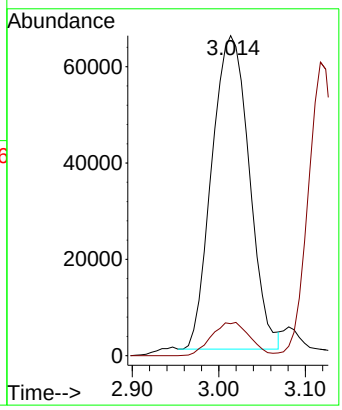


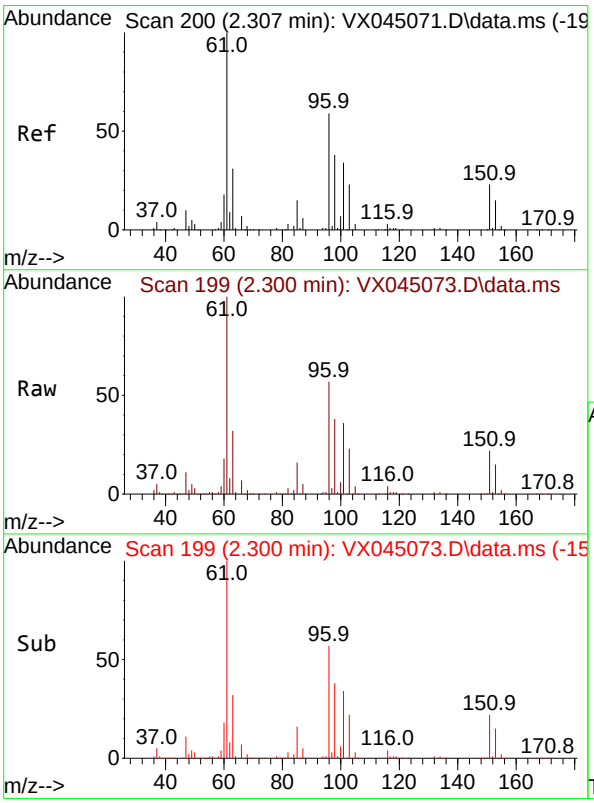
#11
Tert butyl alcohol
Concen: 754.176 ug/l
RT: 3.014 min Scan# 3
Delta R.T. 0.030 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 195415

Ion	Ratio	Lower	Upper
59	100		
57	10.9	7.8	11.8

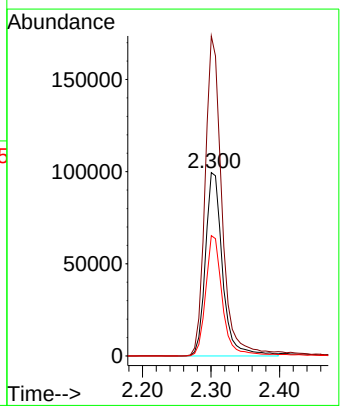


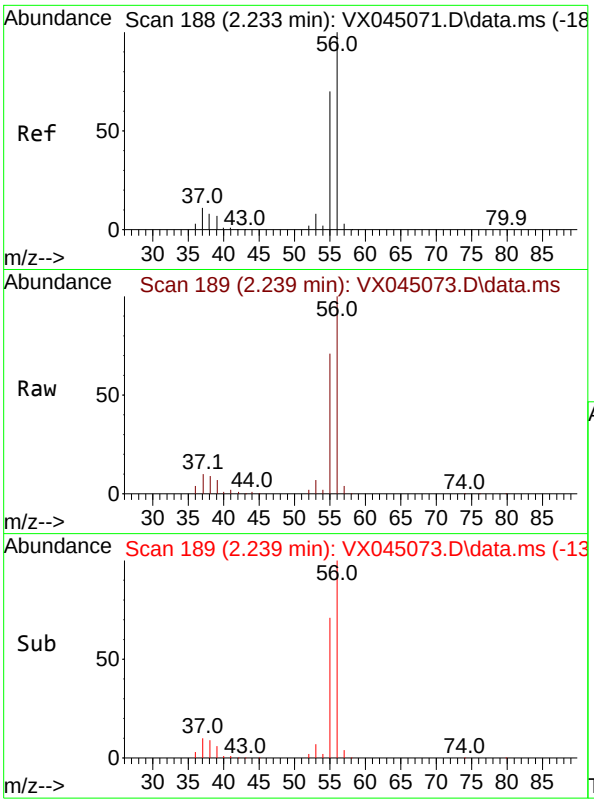


#12
1,1-Dichloroethene
Concen: 140.655 ug/l
RT: 2.300 min Scan# 199
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 96 Resp: 173271

Ion	Ratio	Lower	Upper
96	100		
61	174.5	134.6	202.0
98	65.6	51.0	76.6



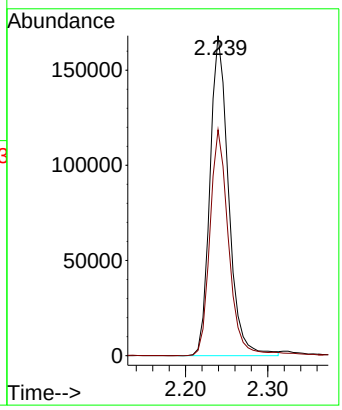


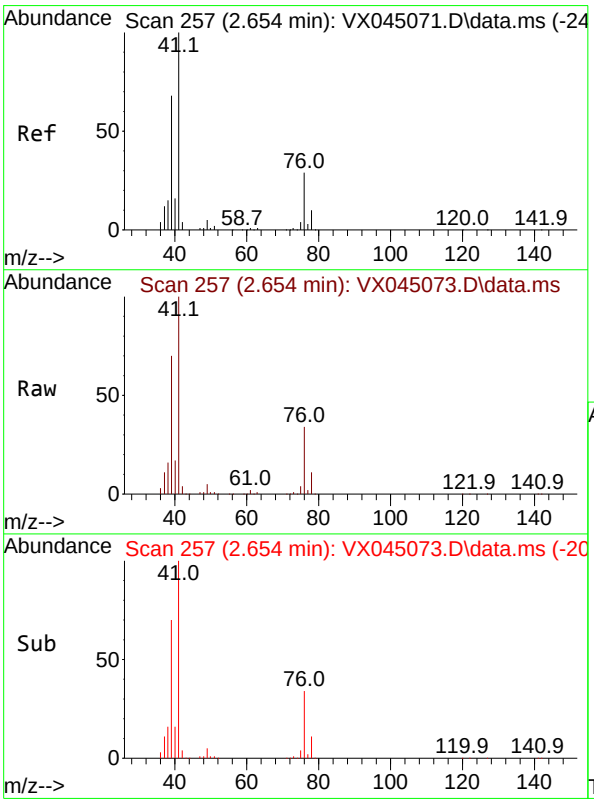
#13
Acrolein
Concen: 940.846 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 263999

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4

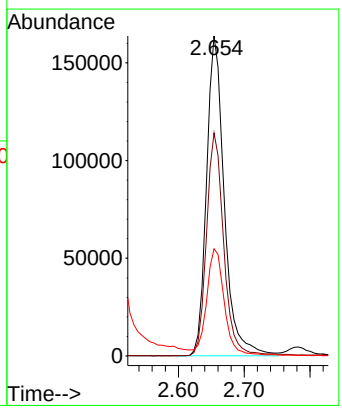


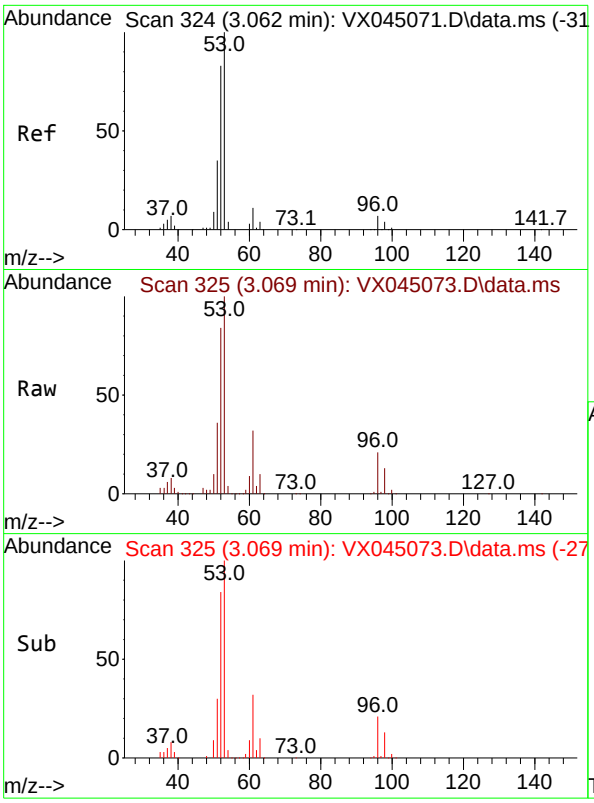


#14
Allyl chloride
Concen: 139.077 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 308018

Ion	Ratio	Lower	Upper
41	100		
39	67.9	53.8	80.8
76	33.8	25.2	37.8



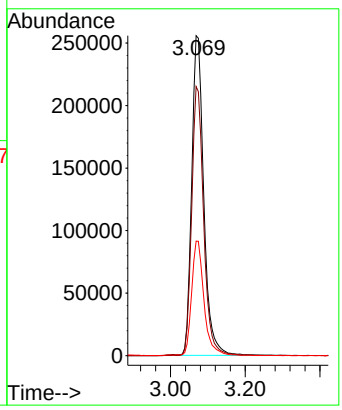


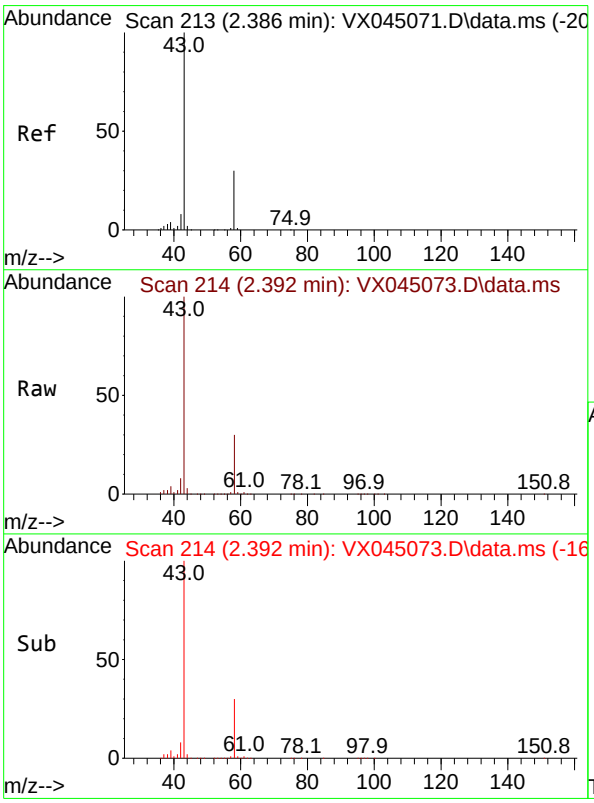
#15
Acrylonitrile
Concen: 813.990 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 573208

Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.2	99.2
51	37.0	29.0	43.4

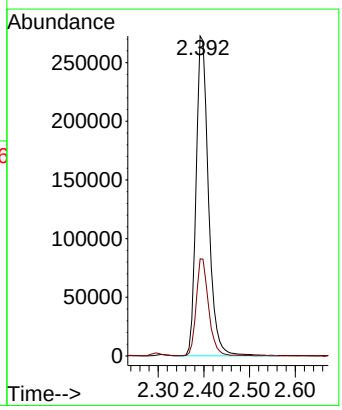


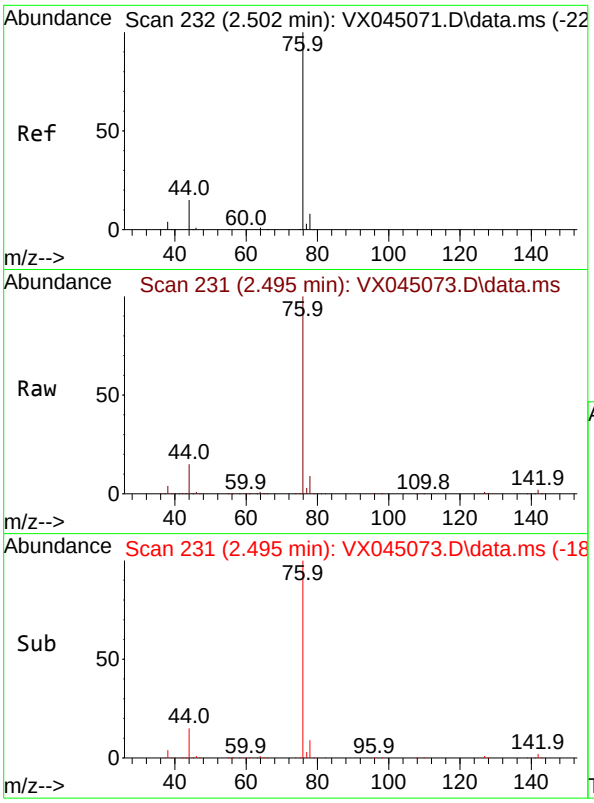


#16
Acetone
Concen: 879.387 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 511828

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4



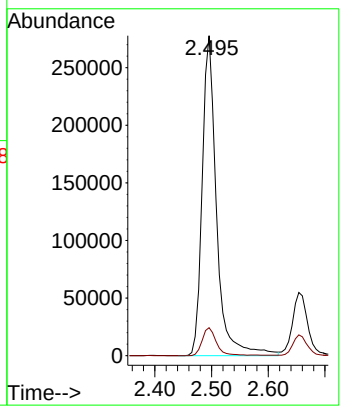


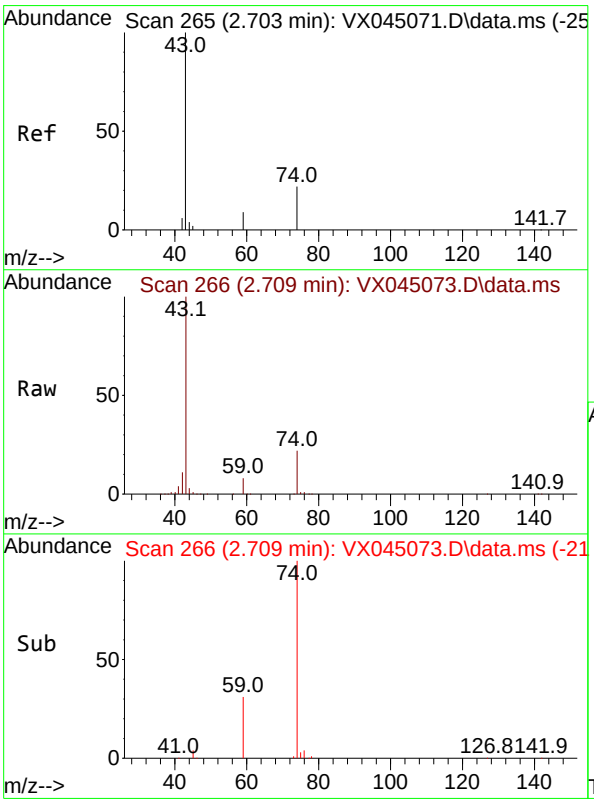
#17
Carbon Disulfide
Concen: 145.511 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 487720

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.6	9.8

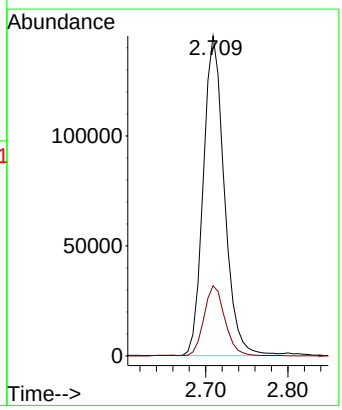


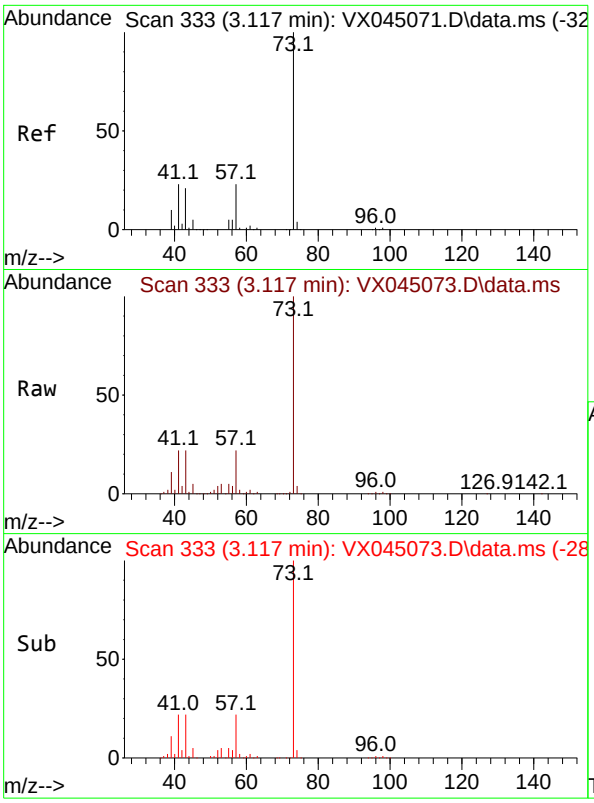


#18
Methyl Acetate
Concen: 147.347 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 258303

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



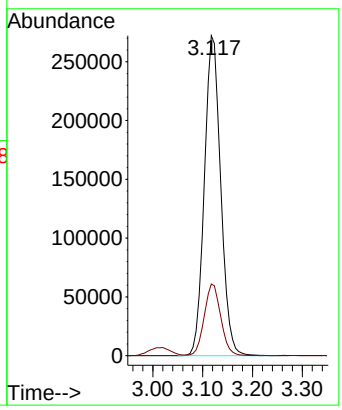


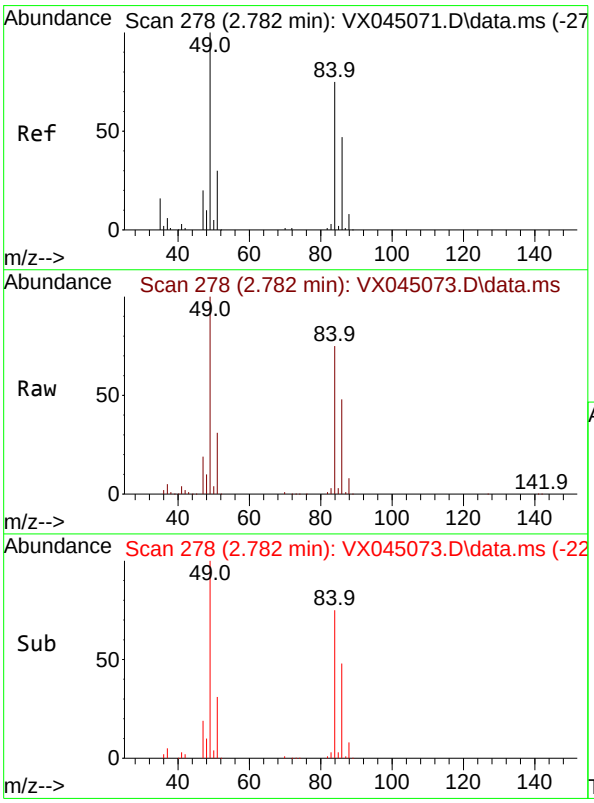
#19
Methyl tert-butyl Ether
Concen: 157.358 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 619778

Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.5	27.7

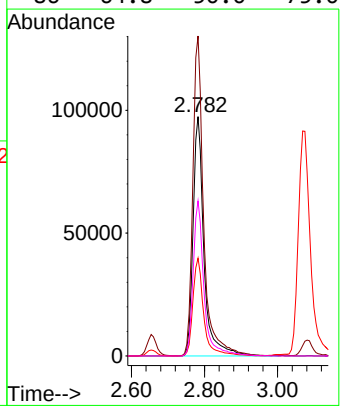


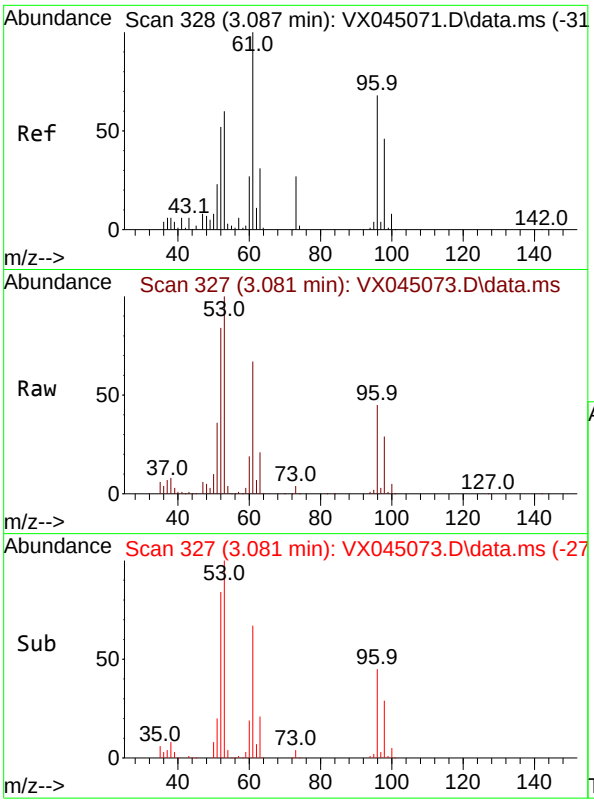


#20
Methylene Chloride
Concen: 147.198 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 84 Resp: 202913

Ion	Ratio	Lower	Upper
84	100		
49	133.6	106.5	159.7
51	40.9	32.1	48.1
86	64.8	50.0	75.0



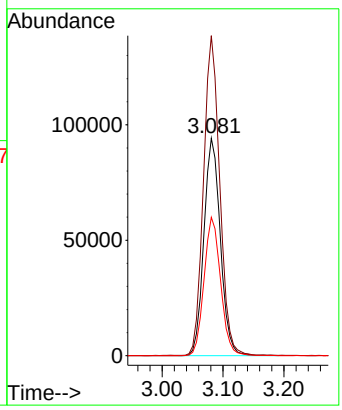


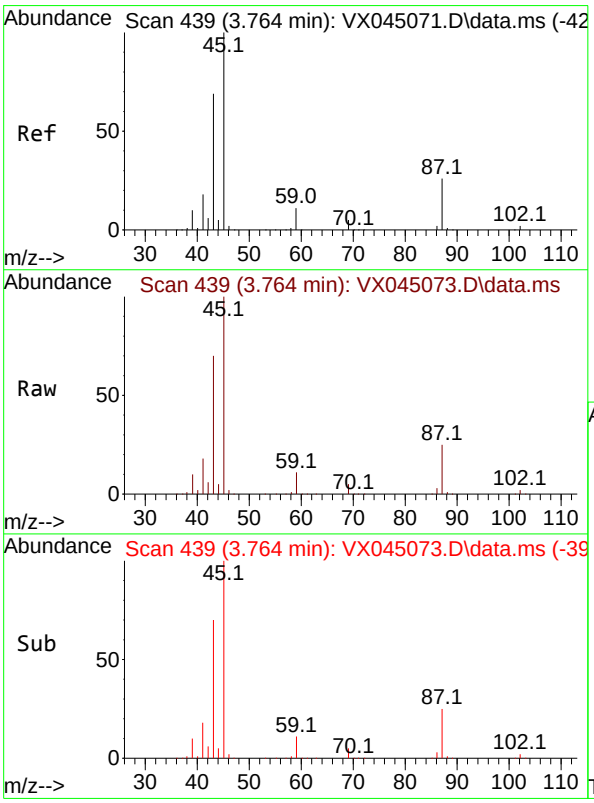
#21
trans-1,2-Dichloroethene
Concen: 146.027 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 176924

Ion	Ratio	Lower	Upper
96	100		
61	147.0	117.0	175.4
98	63.6	53.4	80.2

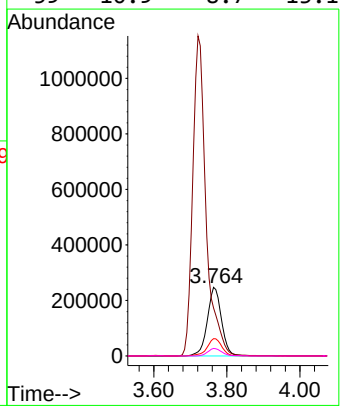


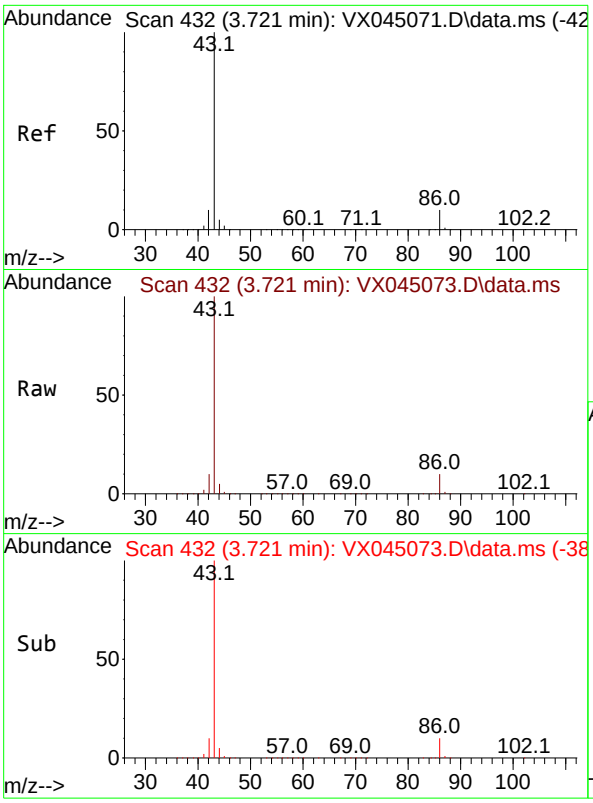


#22
Diisopropyl ether
Concen: 156.526 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 45 Resp: 662828

Ion	Ratio	Lower	Upper
45	100		
43	70.0	54.9	82.3
87	25.2	21.0	31.4
59	10.9	8.7	13.1



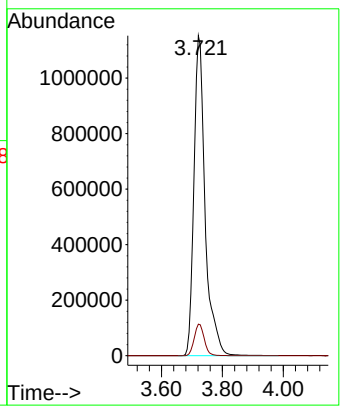


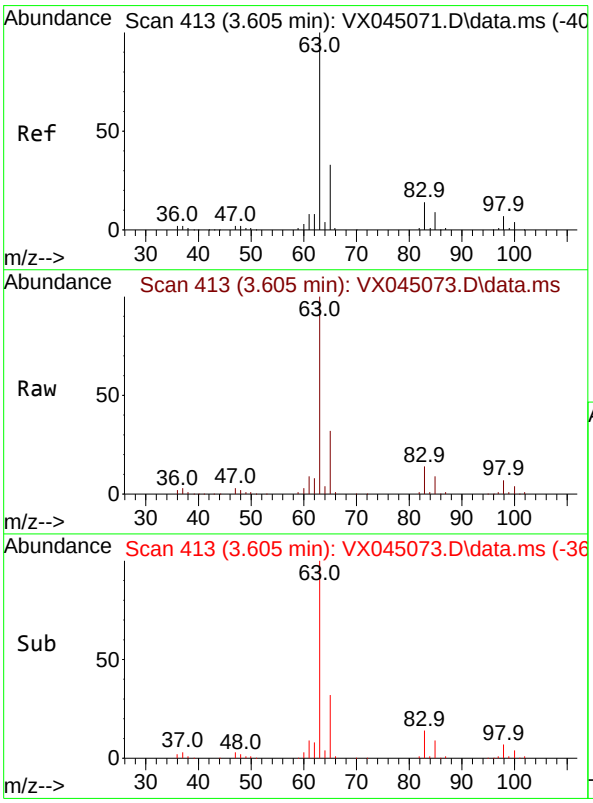
#23
Vinyl Acetate
Concen: 846.586 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2943150

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1

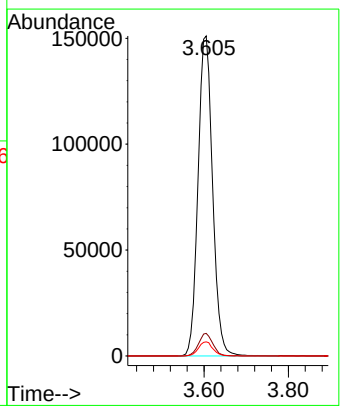


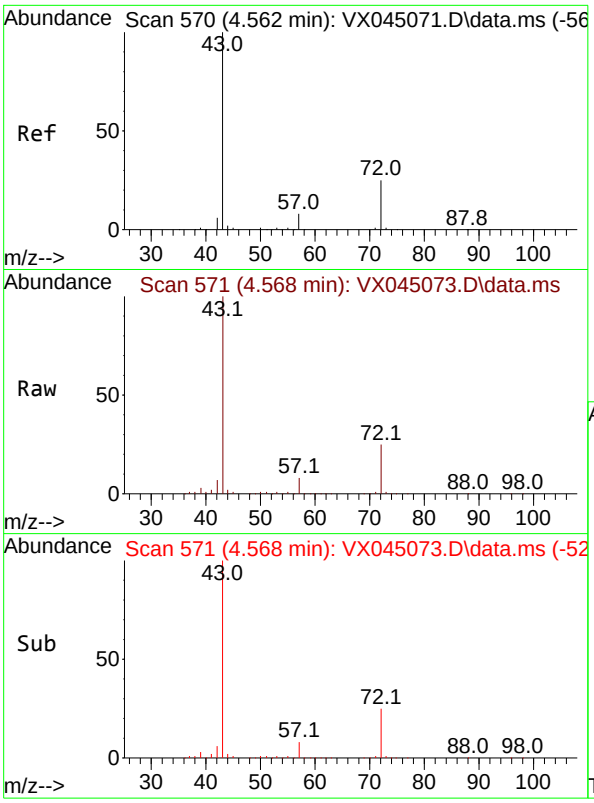


#24
1,1-Dichloroethane
Concen: 153.453 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 363081

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.4	10.2
100	4.4	2.1	6.5



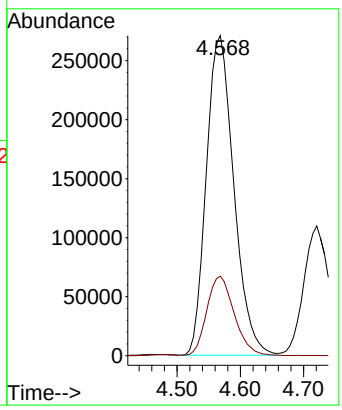


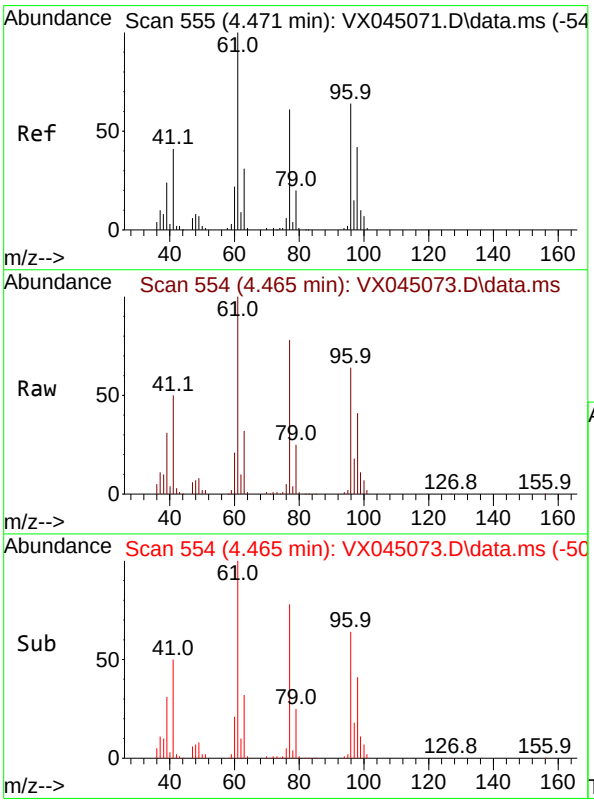
#25
2-Butanone
Concen: 872.239 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 818497

Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.0	30.0

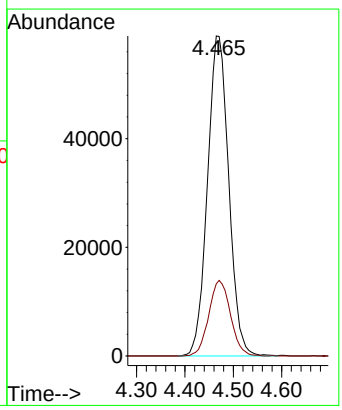


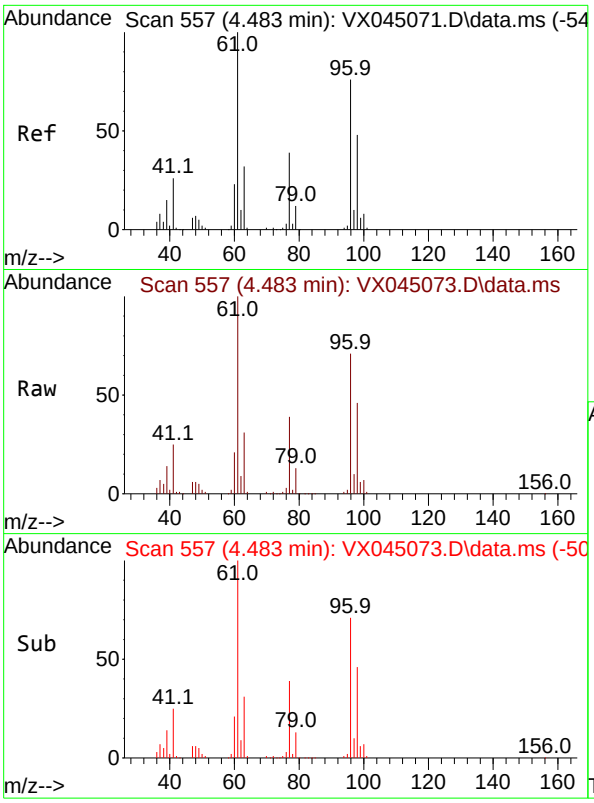


#26
2,2-Dichloropropane
Concen: 102.231 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 77 Resp: 179826

Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.4	37.0



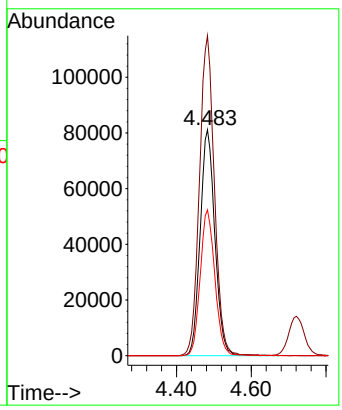


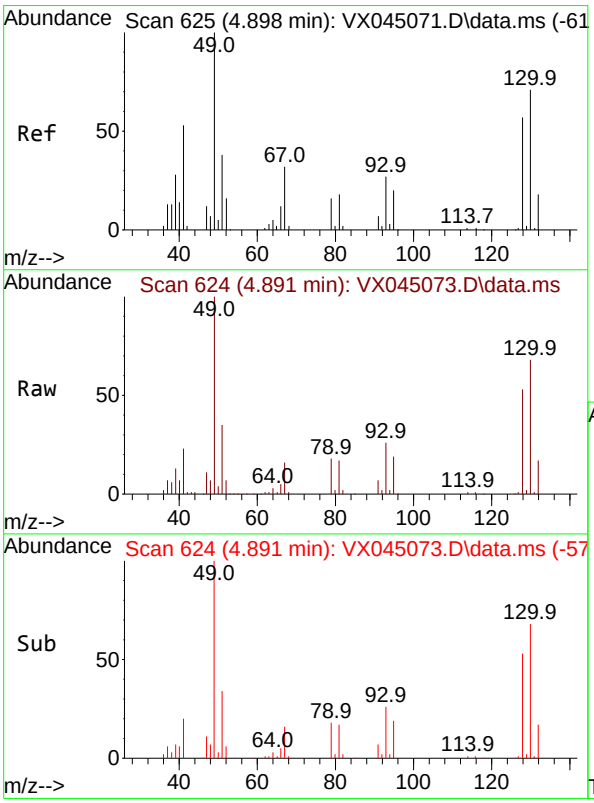
#27
cis-1,2-Dichloroethene
Concen: 151.205 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 220826

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	283.2
98	64.3	0.0	128.0

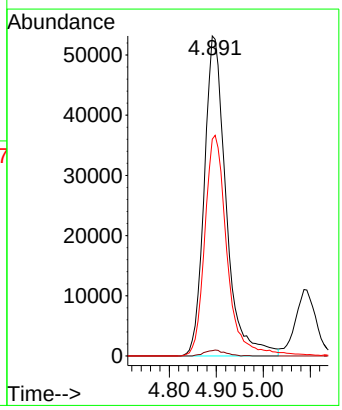


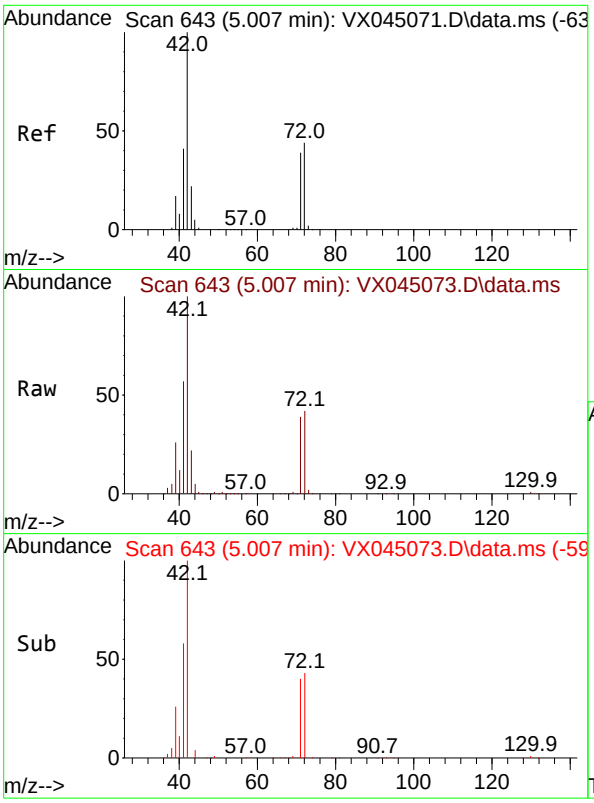


#28
Bromochloromethane
Concen: 150.105 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 49 Resp: 171273

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.3	56.1	84.1



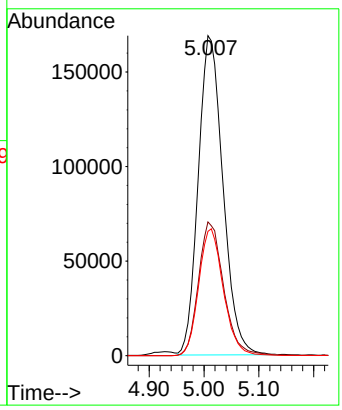


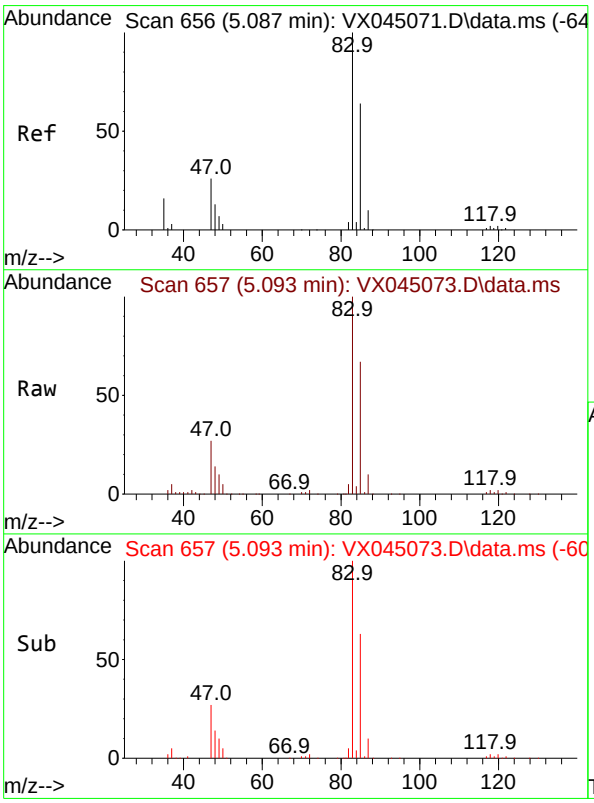
#29
Tetrahydrofuran
Concen: 850.174 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 528574

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.1	51.1
71	39.7	31.4	47.0

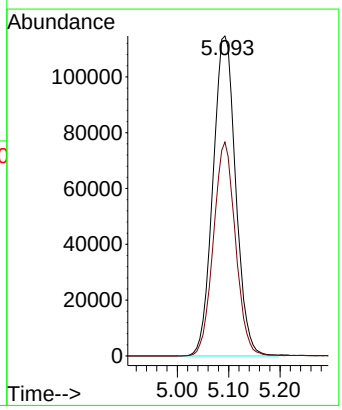


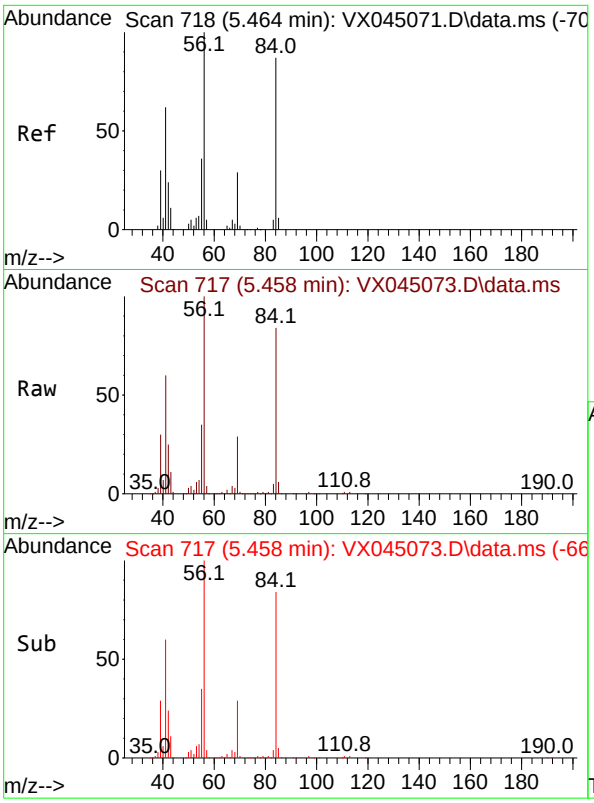


#30
Chloroform
Concen: 152.067 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 83 Resp: 351934

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.4	77.2



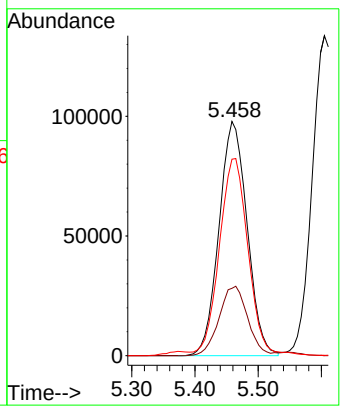


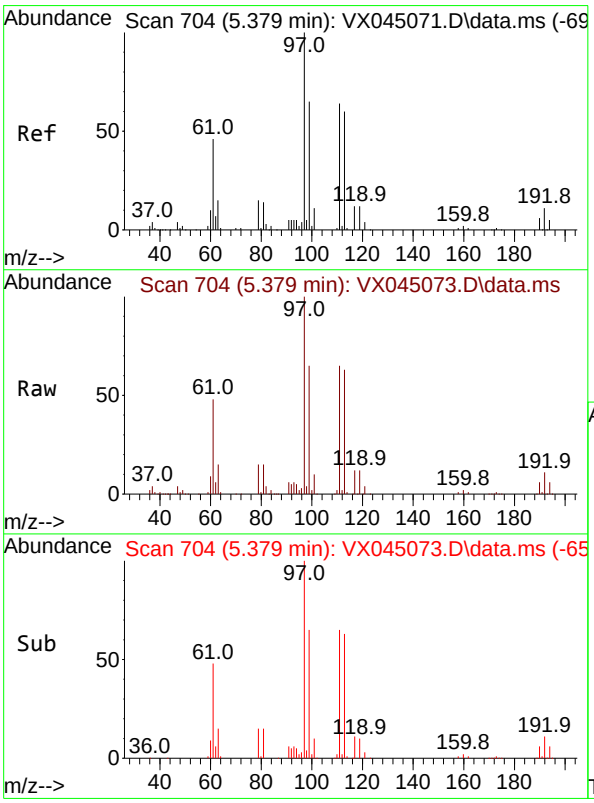
#31
Cyclohexane
Concen: 139.174 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 302215

Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	82.2	69.4	104.2

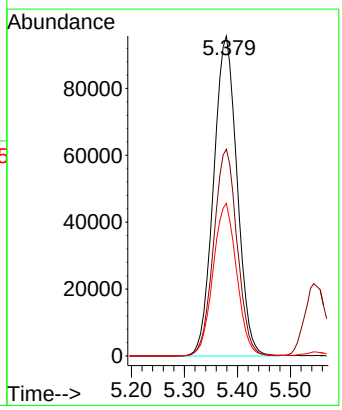


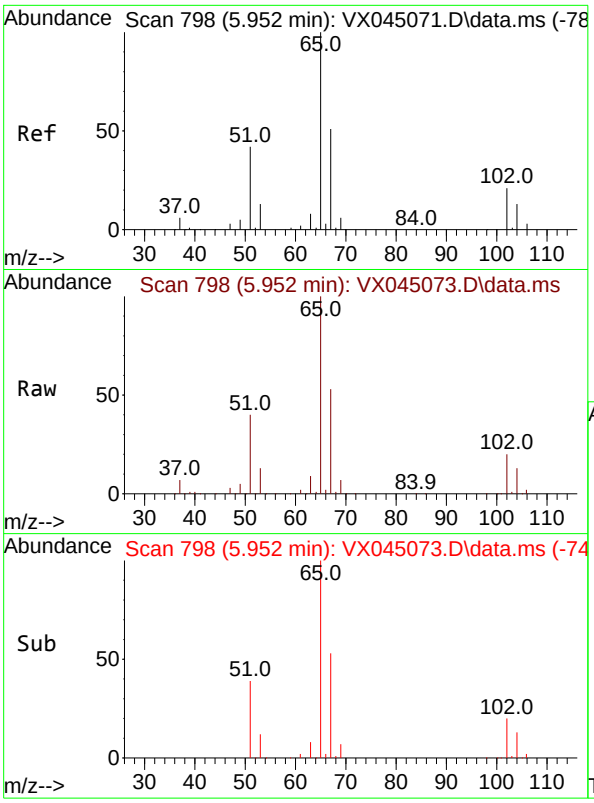


#32
1,1,1-Trichloroethane
Concen: 151.120 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 97 Resp: 294434

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	48.1	38.4	57.6



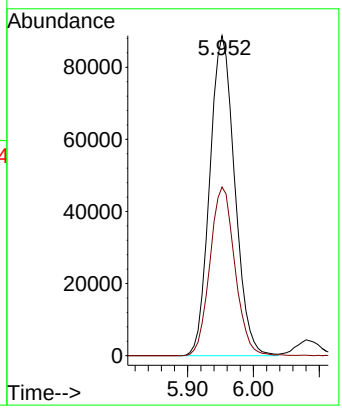


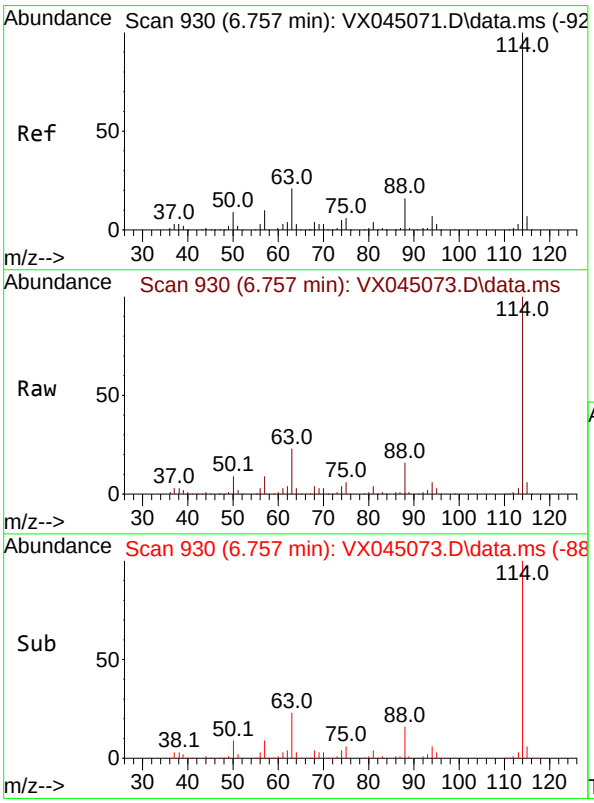
#33
1,2-Dichloroethane-d4
Concen: 165.865 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 234624

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.2

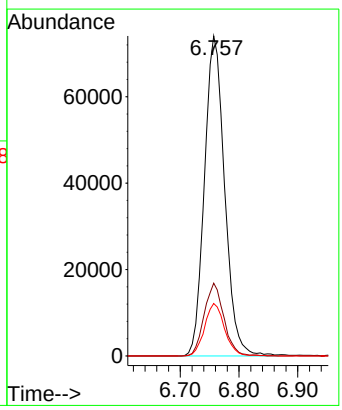


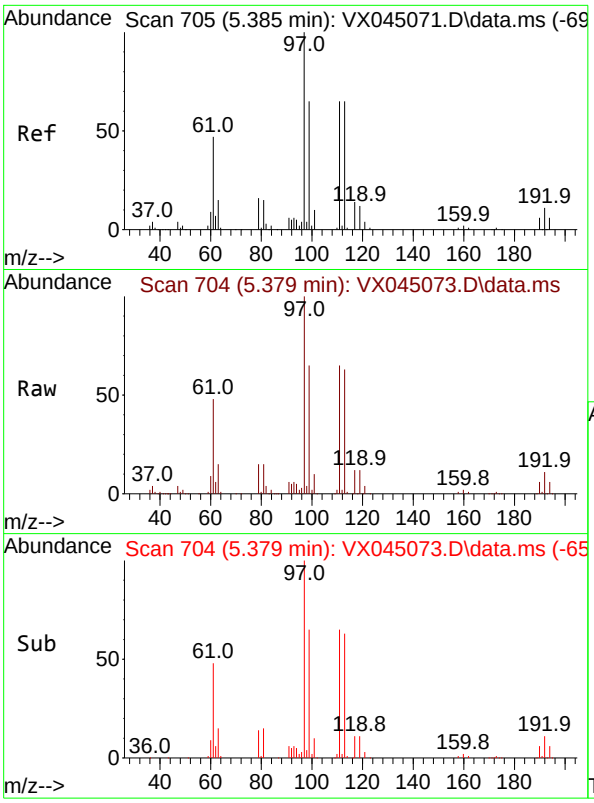


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:114 Resp: 176991

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	41.8
88	16.4	0.0	32.8



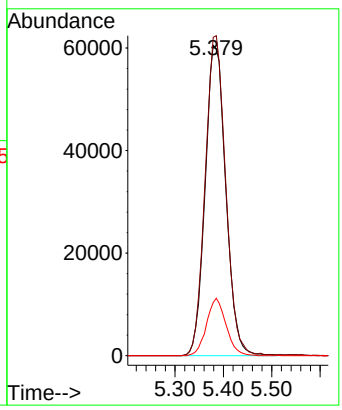


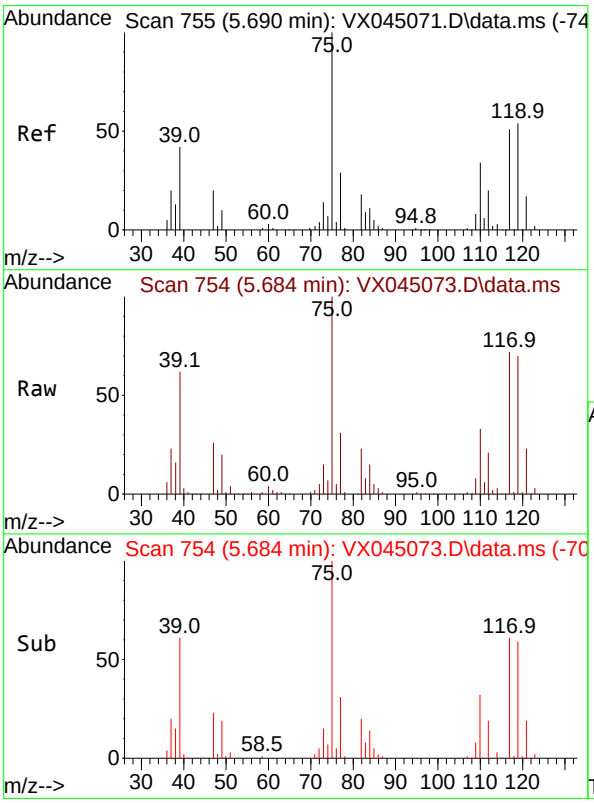
#35
Dibromofluoromethane
Concen: 155.359 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 179722

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	17.5	14.3	21.5

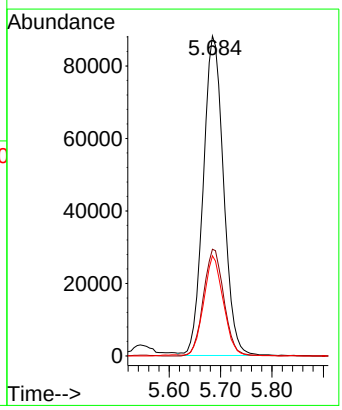


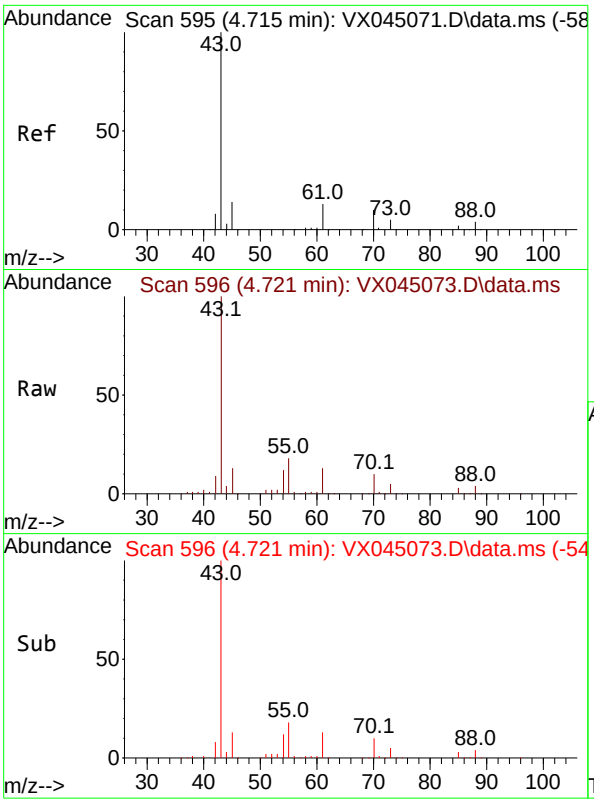


#36
1,1-Dichloropropene
Concen: 145.112 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 241405

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	30.5	24.5	36.7



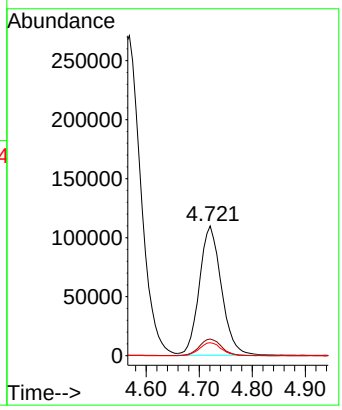


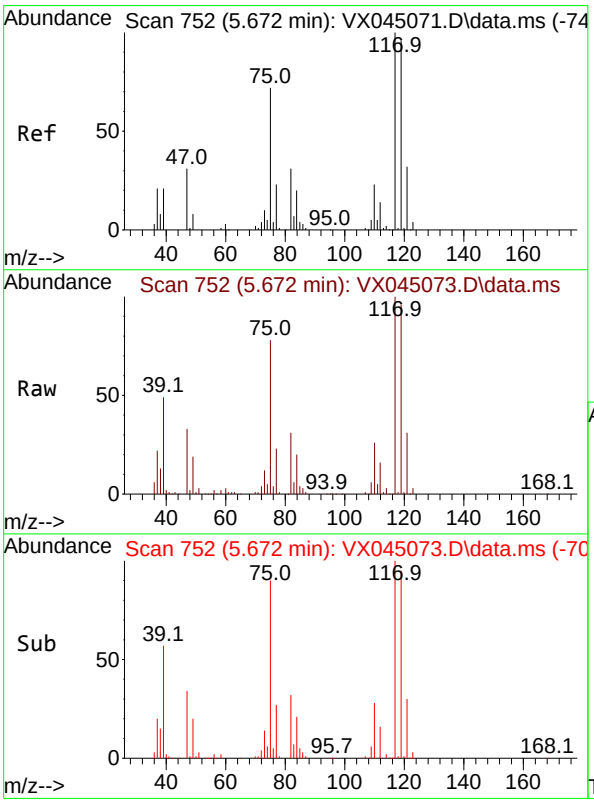
#37
Ethyl Acetate
Concen: 167.067 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 316250

Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.8	16.2
70	10.1	7.7	11.5

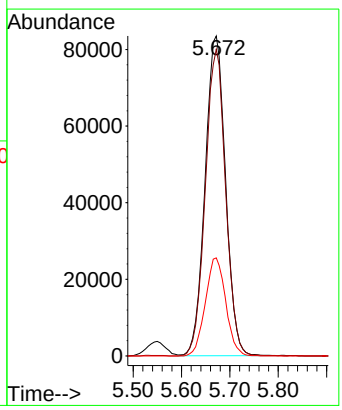


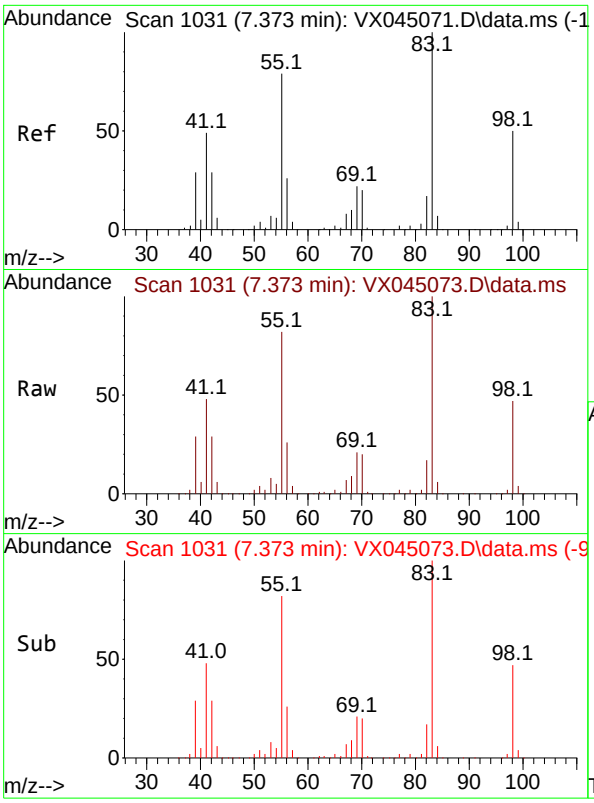


#38
Carbon Tetrachloride
Concen: 150.363 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 245917

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
121	30.7	25.5	38.3



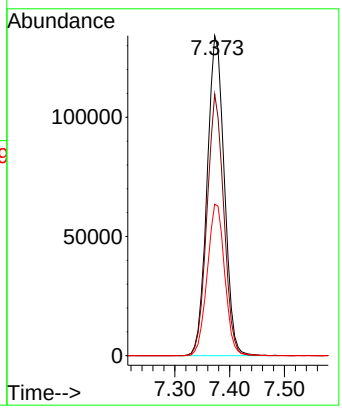


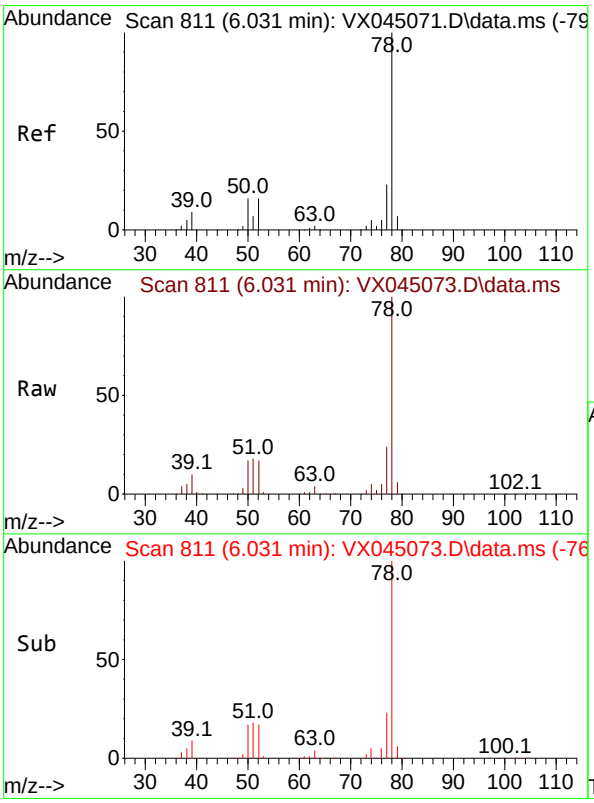
#39
Methylcyclohexane
Concen: 137.544 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 292216

Ion	Ratio	Lower	Upper
83	100		
55	81.7	63.0	94.4
98	47.4	39.7	59.5

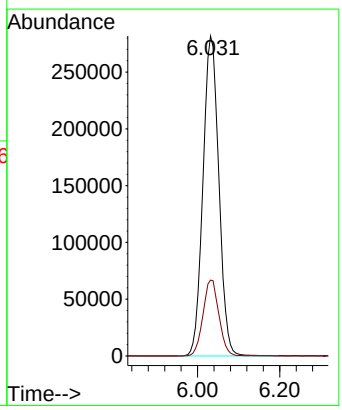


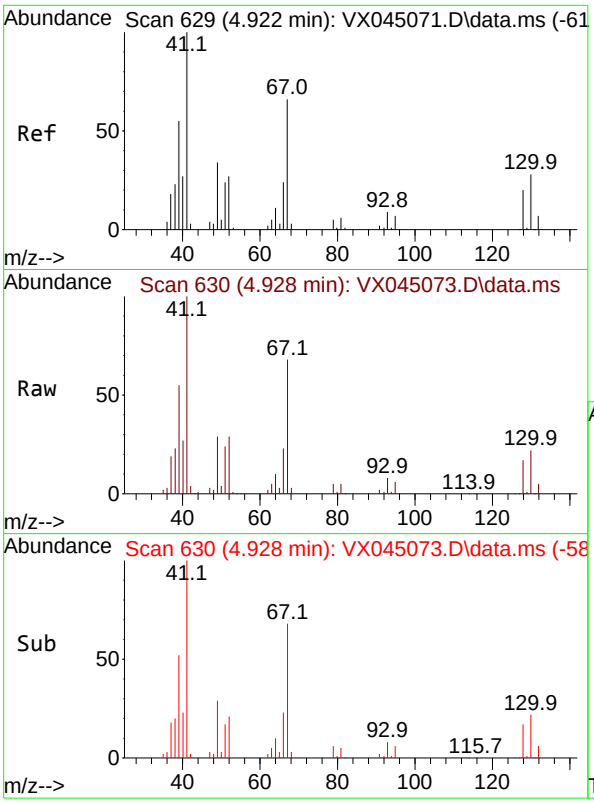


#40
Benzene
Concen: 145.368 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 78 Resp: 755854

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2



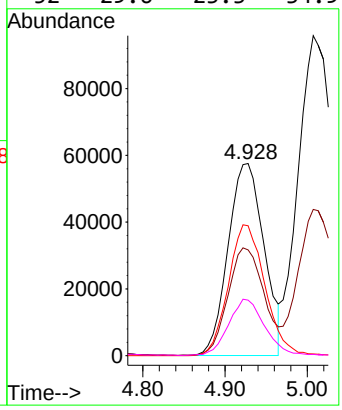


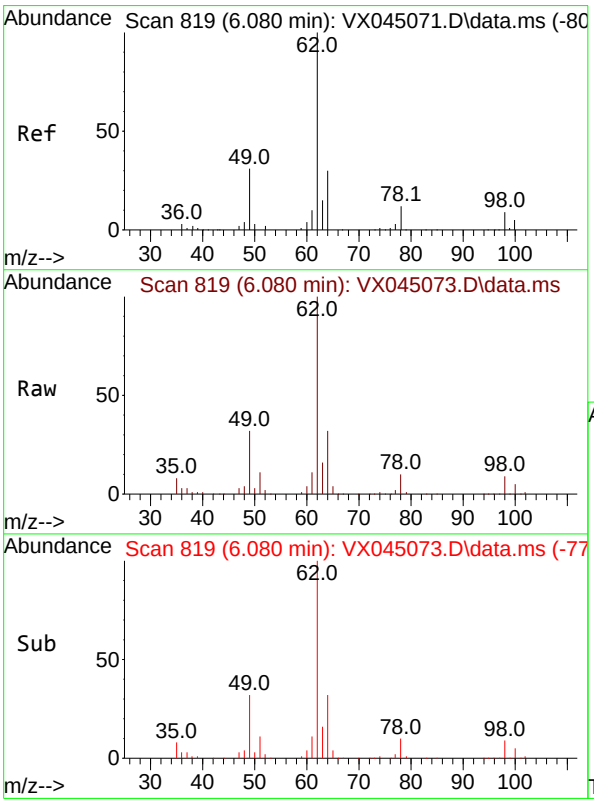
#41
Methacrylonitrile
Concen: 173.088 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 175023

Ion	Ratio	Lower	Upper
41	100		
39	55.9	44.6	67.0
67	69.5	53.9	80.9
52	29.6	23.3	34.9

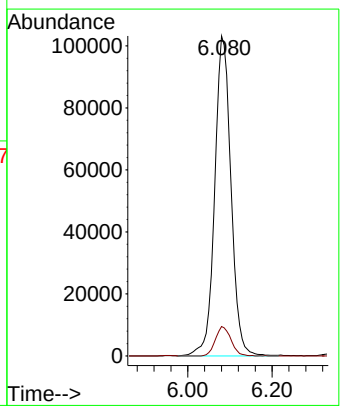


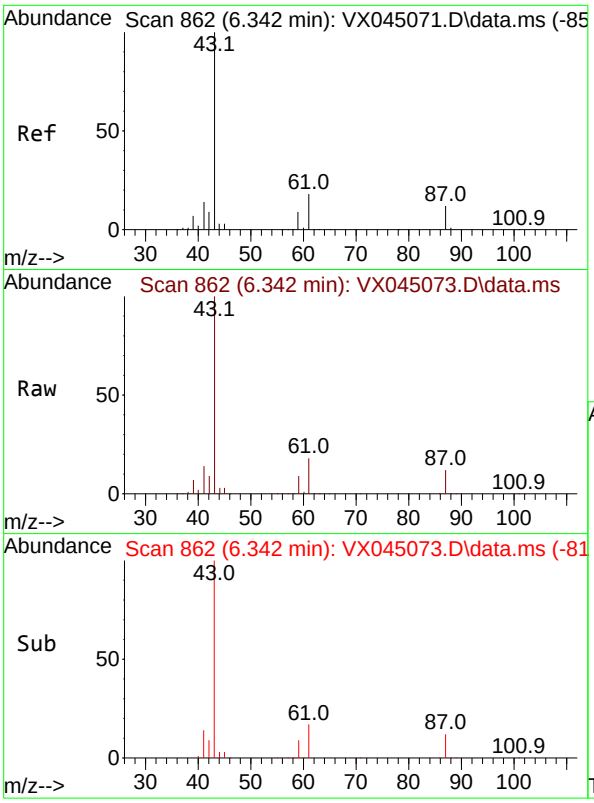


#42
1,2-Dichloroethane
Concen: 163.872 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 276129

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2



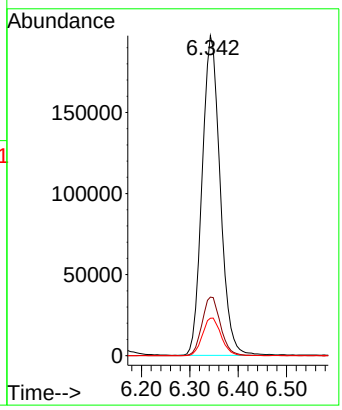


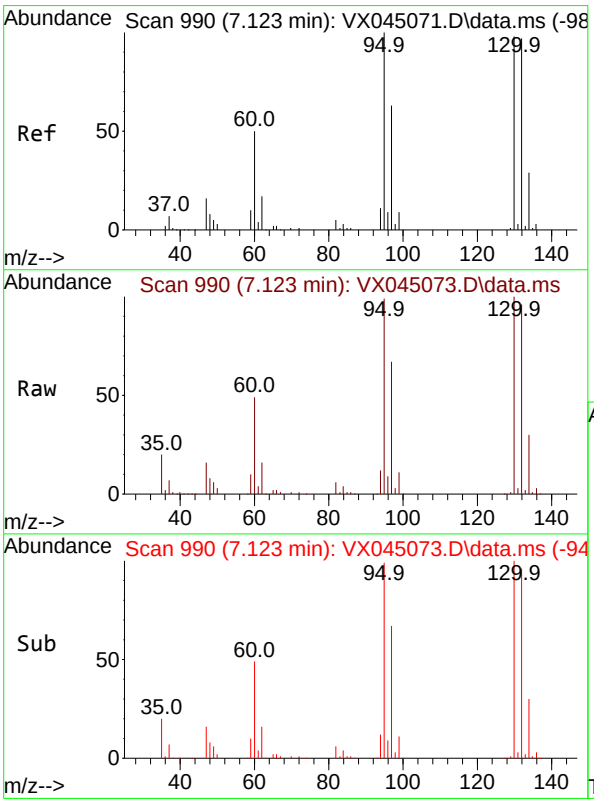
#43
Isopropyl Acetate
Concen: 169.804 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 511643

Ion	Ratio	Lower	Upper
43	100		
61	18.7	14.9	22.3
87	12.1	9.4	14.2

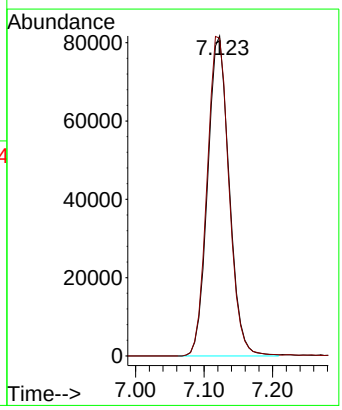


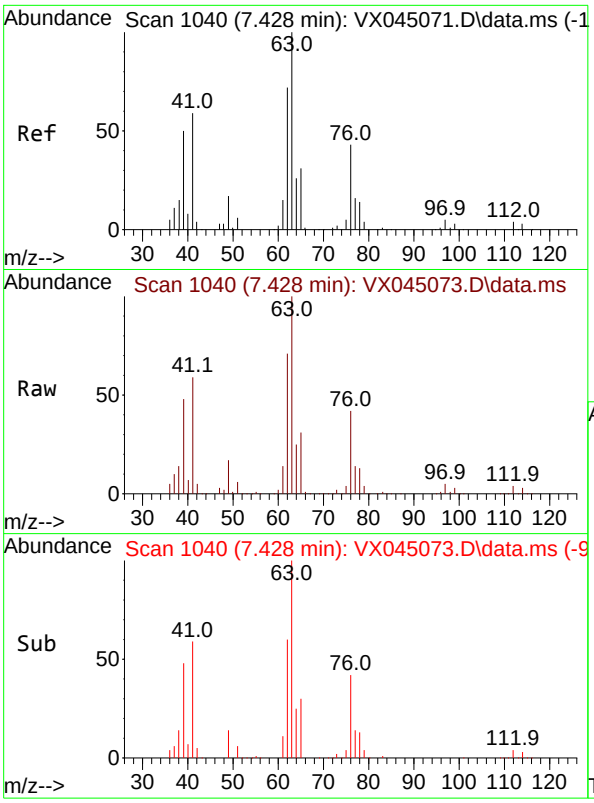


#44
Trichloroethene
Concen: 150.181 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:130 Resp: 178483

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	205.0



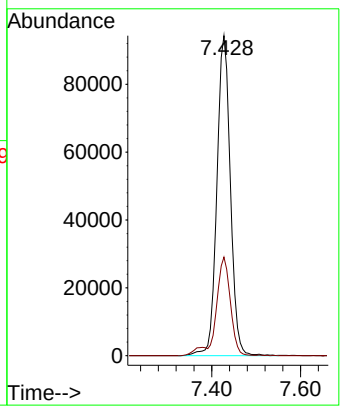


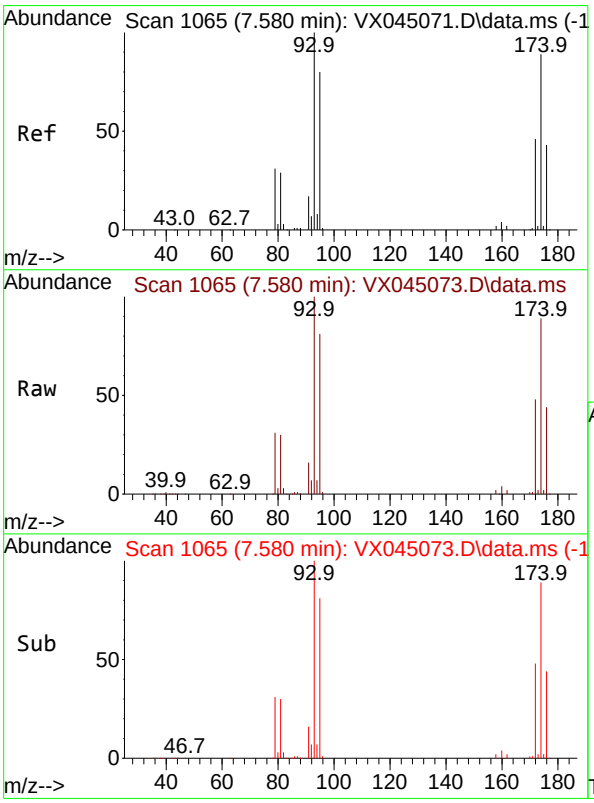
#45
1,2-Dichloropropane
Concen: 153.334 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 198135

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.7	37.1

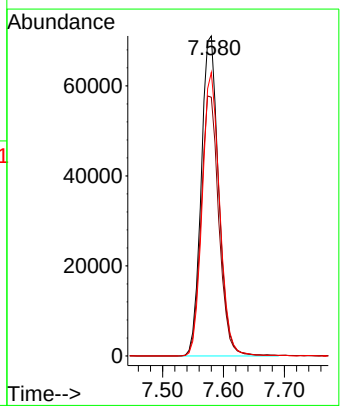


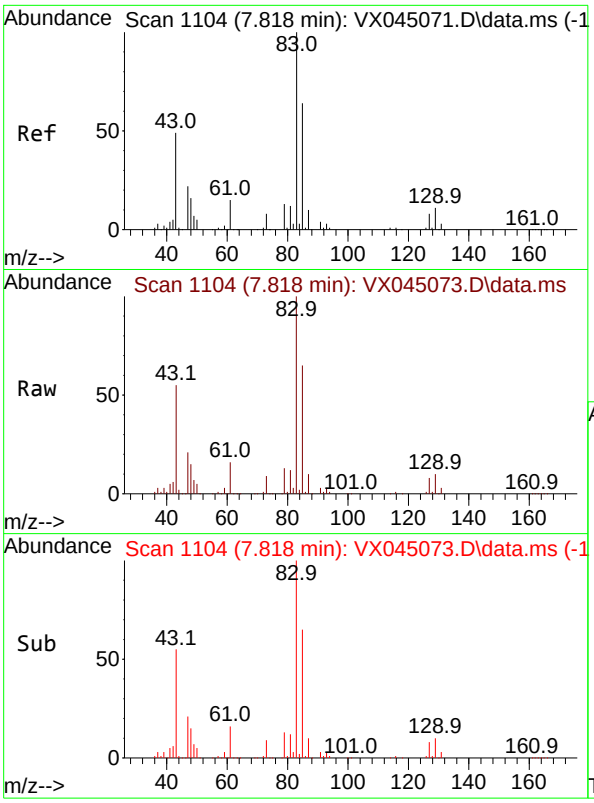


#46
Dibromomethane
Concen: 157.443 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 93 Resp: 142119

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.8	98.8
174	88.2	72.2	108.2



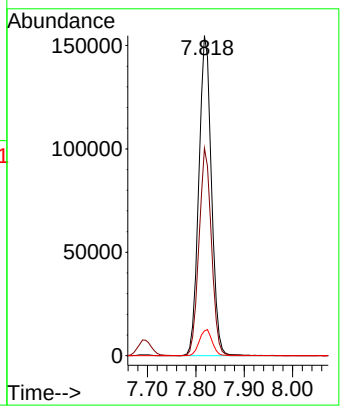


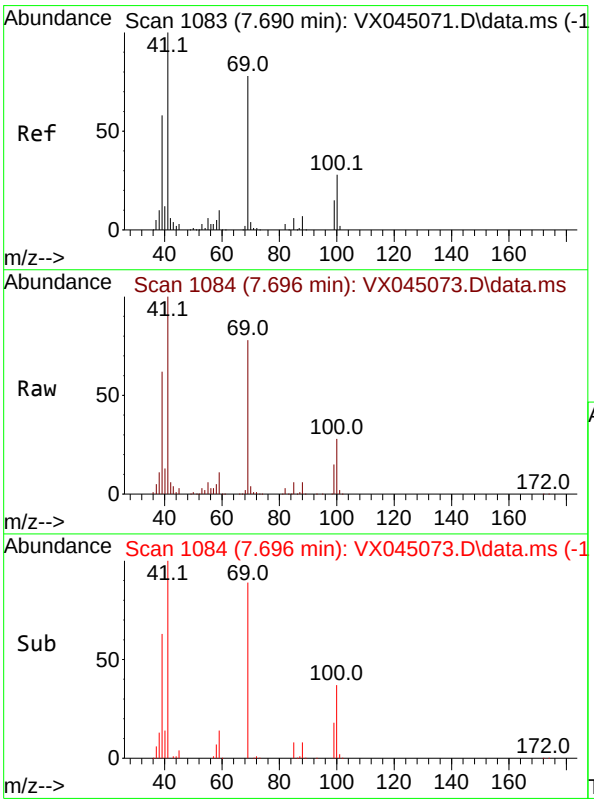
#47
Bromodichloromethane
Concen: 160.492 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 280255

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.1	76.7
127	7.8	6.4	9.6

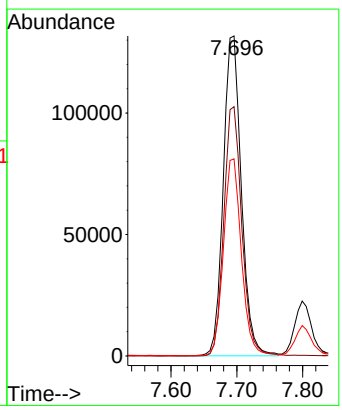


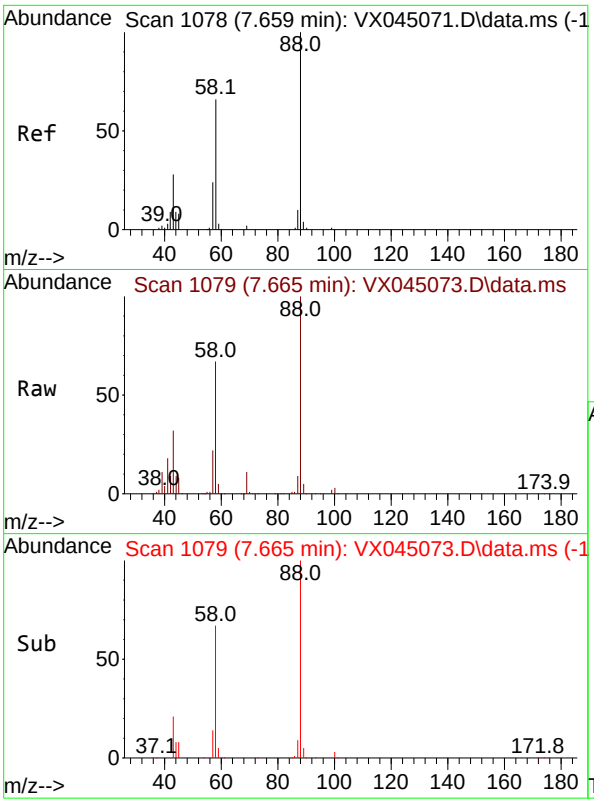


#48
Methyl methacrylate
Concen: 176.370 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 252275

Ion	Ratio	Lower	Upper
41	100		
69	78.1	63.0	94.6
39	61.1	47.5	71.3



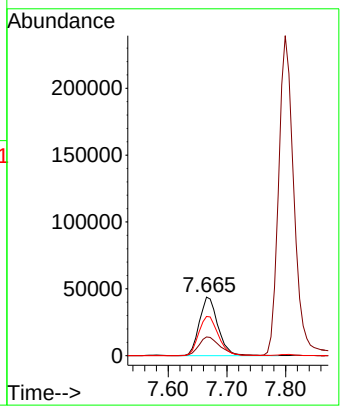


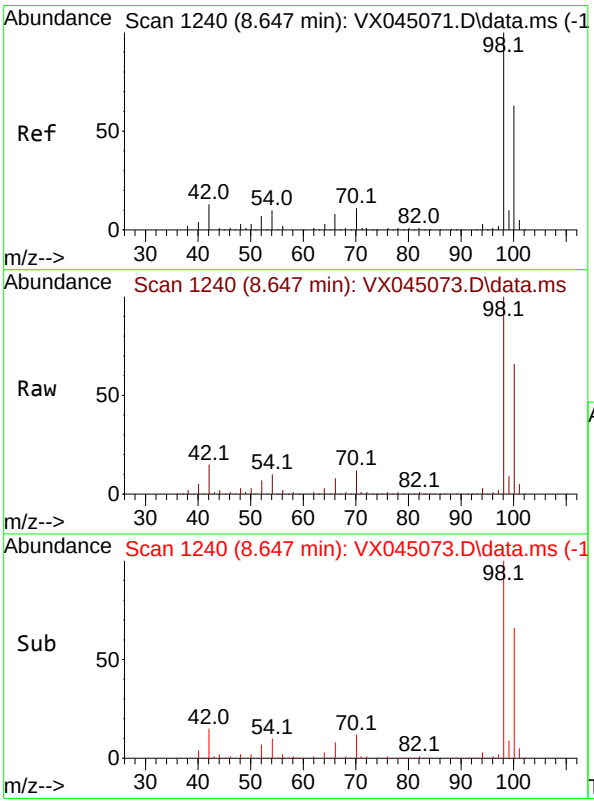
#49
1,4-Dioxane
Concen: 3166.423 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 96268

Ion	Ratio	Lower	Upper
88	100		
43	37.0	28.7	43.1
58	70.8	55.8	83.8

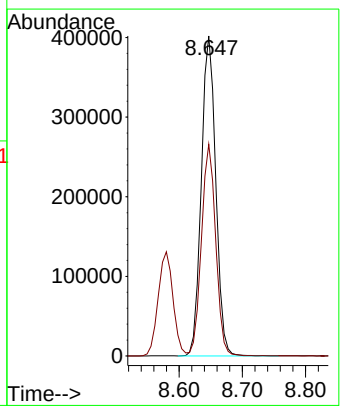


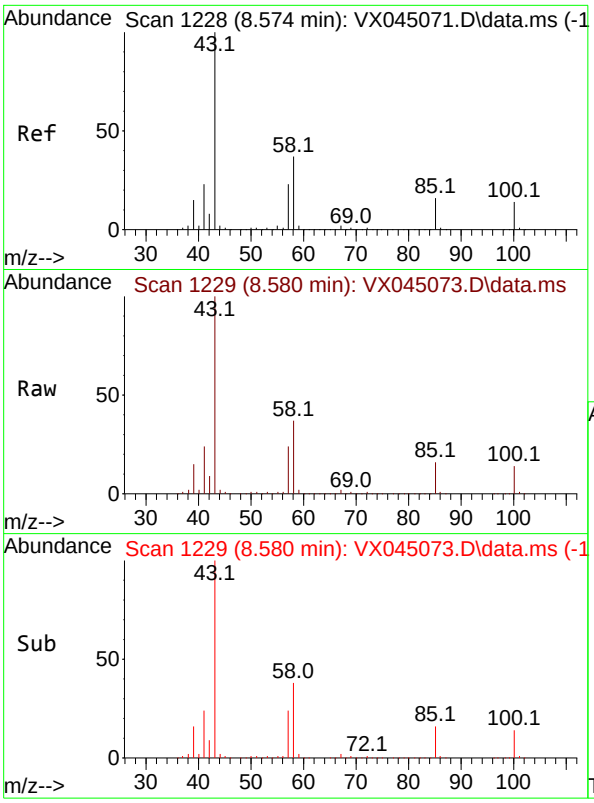


#50
Toluene-d8
Concen: 147.538 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 98 Resp: 638979

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0



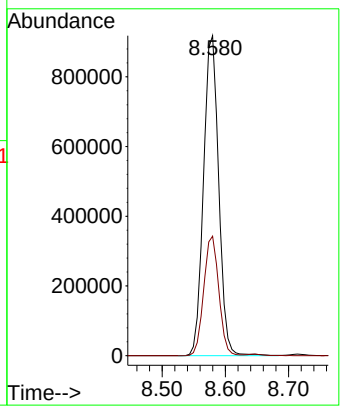


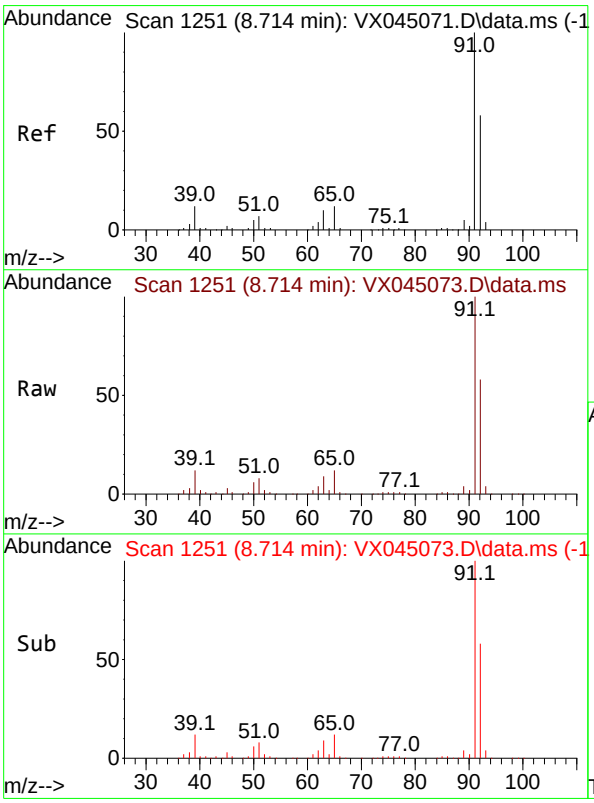
#51
4-Methyl-2-Pentanone
Concen: 832.051 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1536157

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.2	43.8

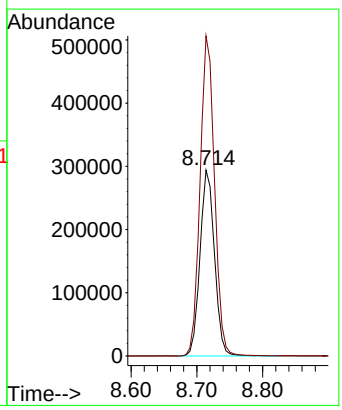


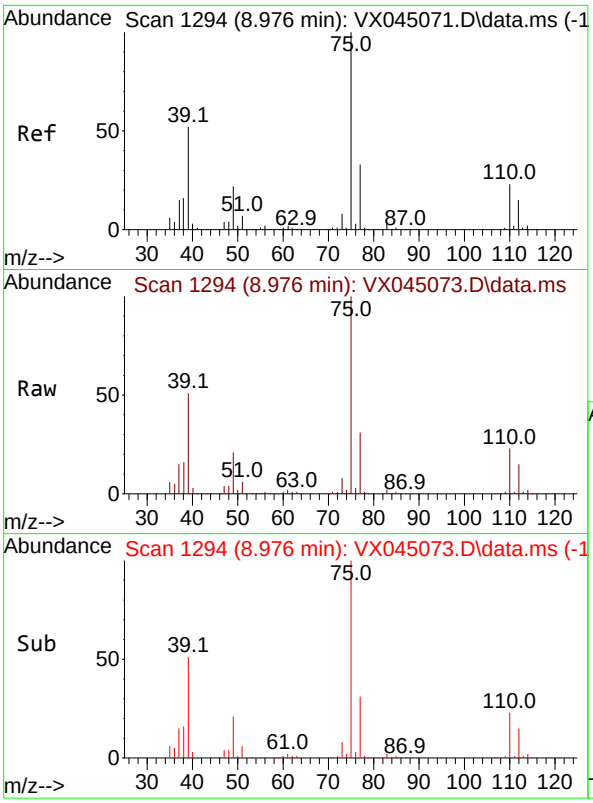


#52
Toluene
Concen: 145.321 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 92 Resp: 448664

Ion	Ratio	Lower	Upper
92	100		
91	172.3	138.9	208.3



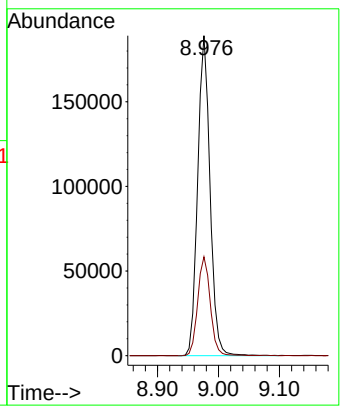


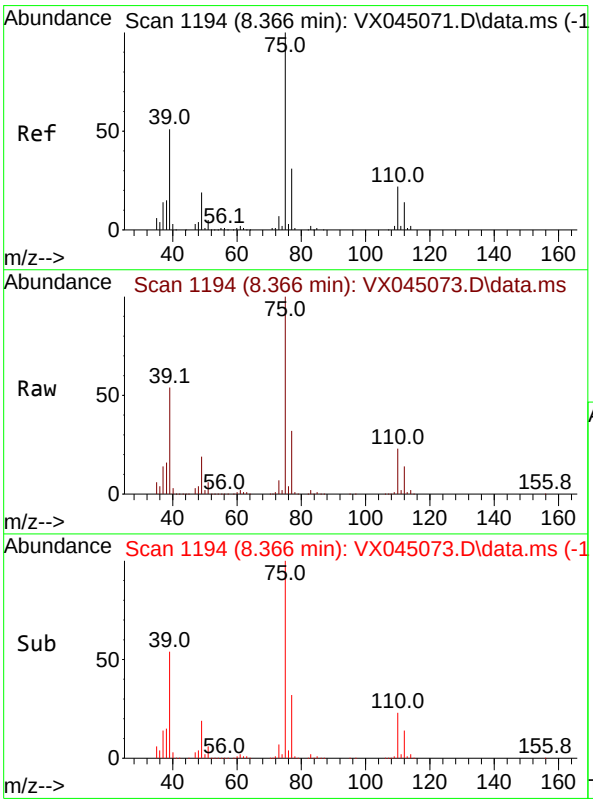
#53
t-1,3-Dichloropropene
Concen: 154.373 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 266444

Ion	Ratio	Lower	Upper
75	100		
77	30.9	26.5	39.7

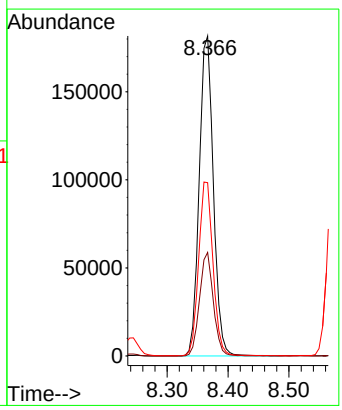


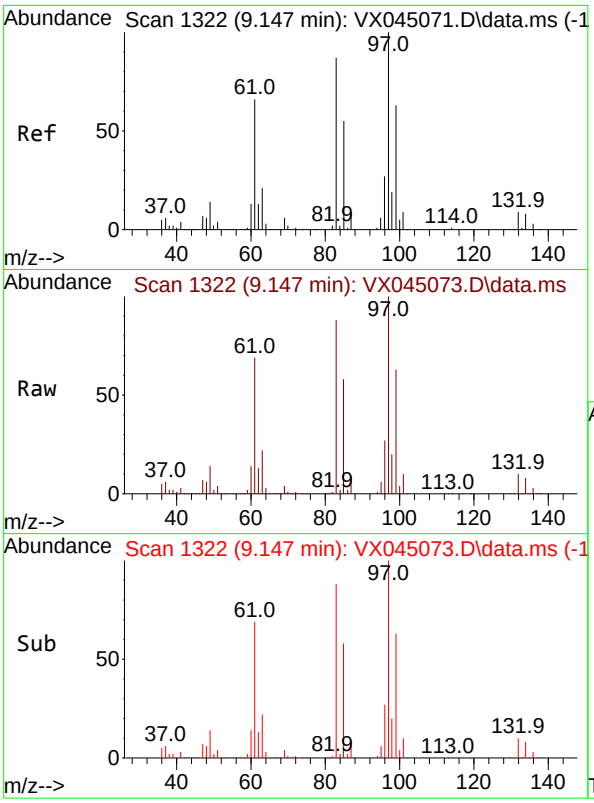


#54
cis-1,3-Dichloropropene
Concen: 152.117 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 293521

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	54.0	40.7	61.1



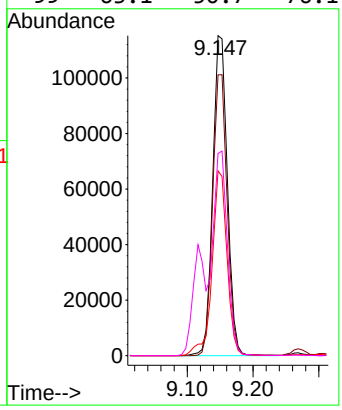


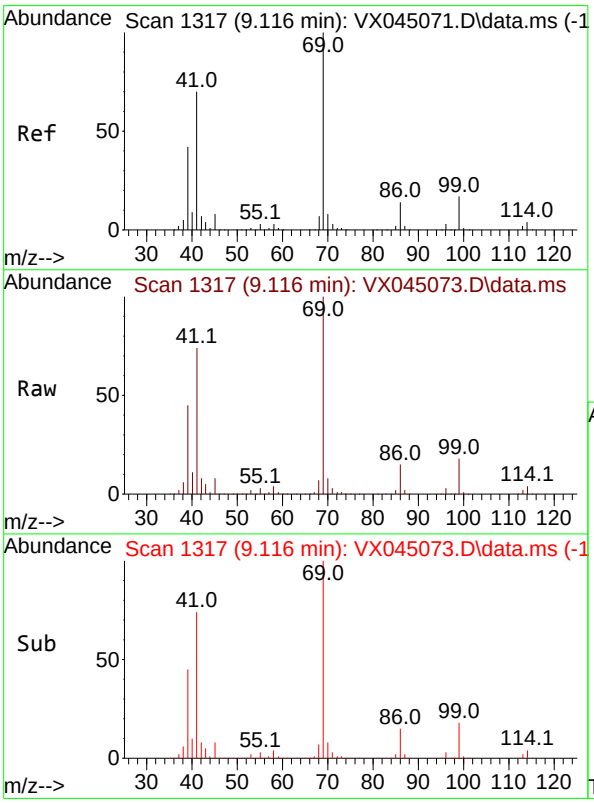
#55
1,1,2-Trichloroethane
Concen: 149.046 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 178217

Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.4	104.2
85	57.8	44.1	66.1
99	63.1	50.7	76.1

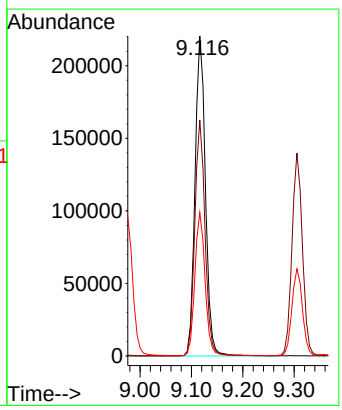


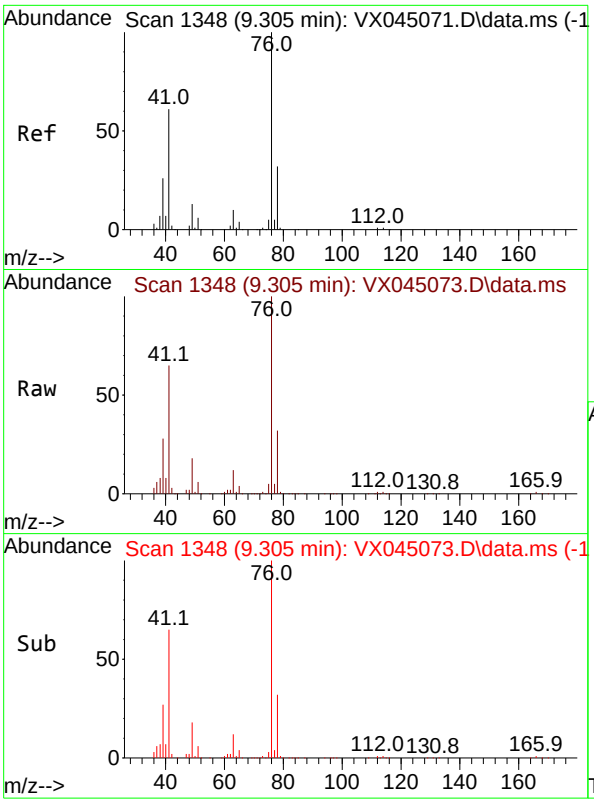


#56
Ethyl methacrylate
Concen: 162.631 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 69 Resp: 310992

Ion	Ratio	Lower	Upper
69	100		
41	72.6	57.0	85.4
39	44.2	34.2	51.4



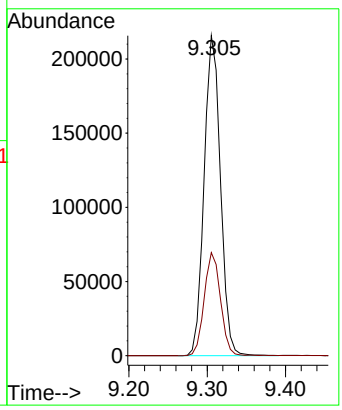


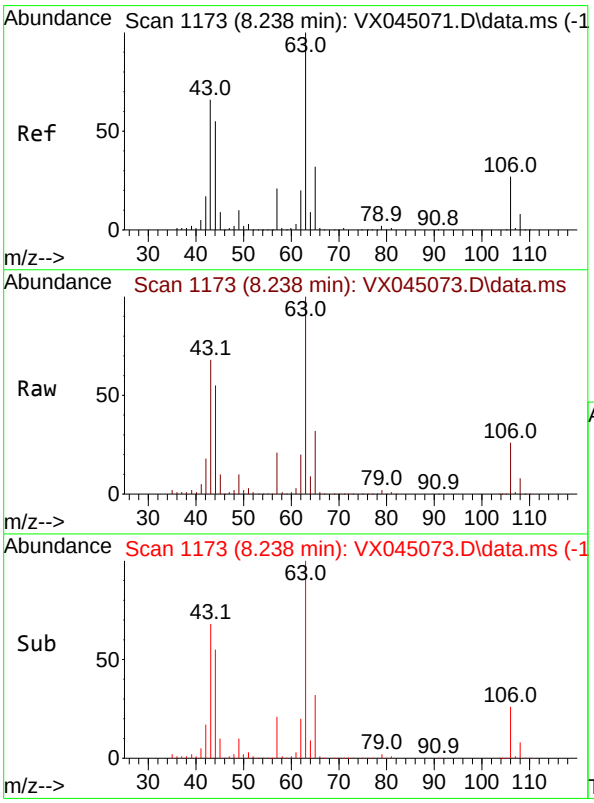
#57
1,3-Dichloropropane
Concen: 149.699 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 312196

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

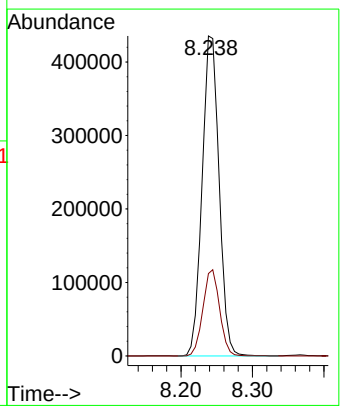


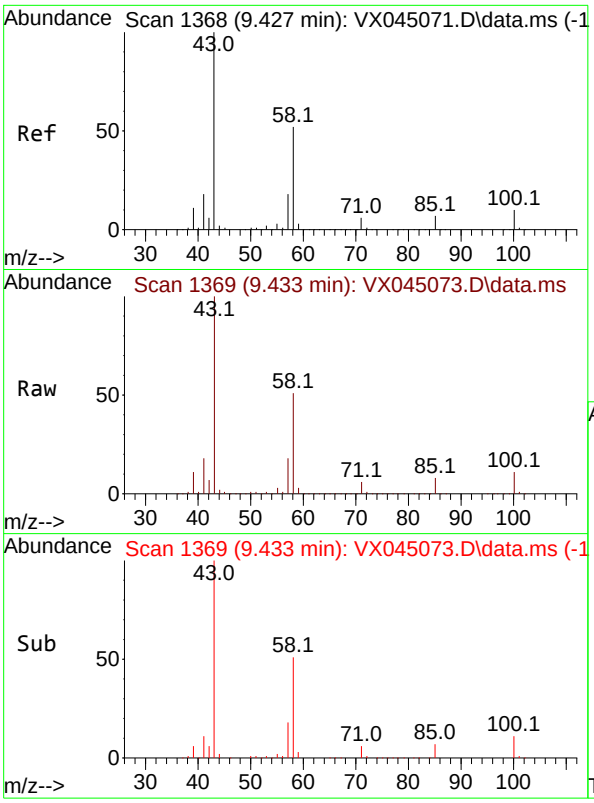


#58
2-Chloroethyl Vinyl ether
Concen: 764.019 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 717328

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3



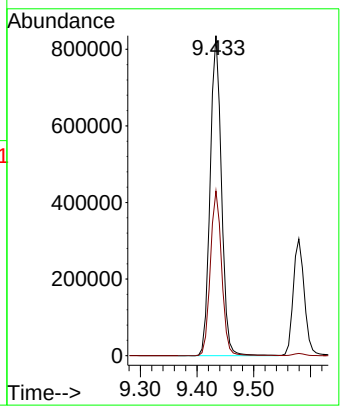


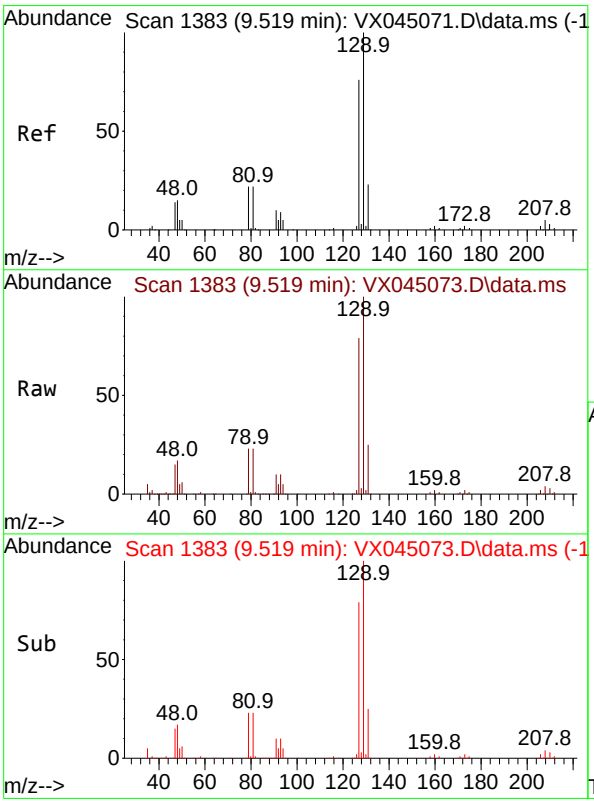
#59
2-Hexanone
Concen: 868.492 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1156653

Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.9	77.6

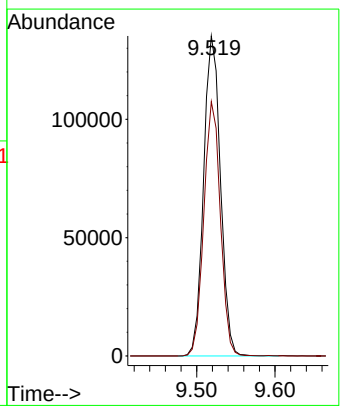


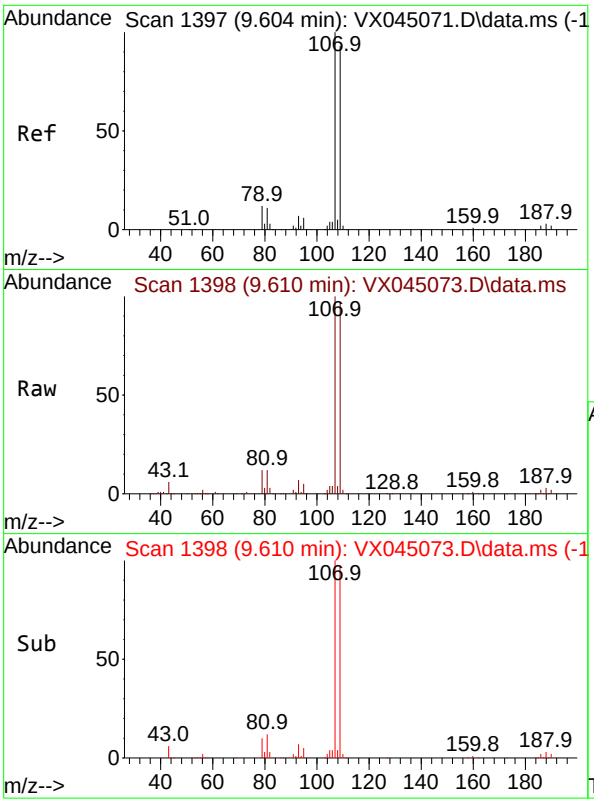


#60
Dibromochloromethane
Concen: 158.276 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:129 Resp: 201906

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.5	115.5



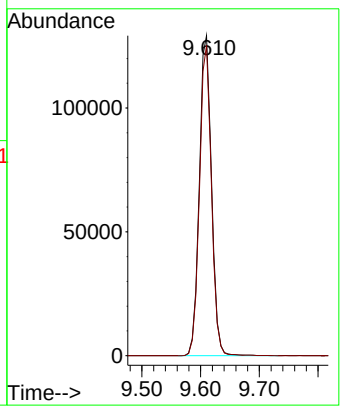


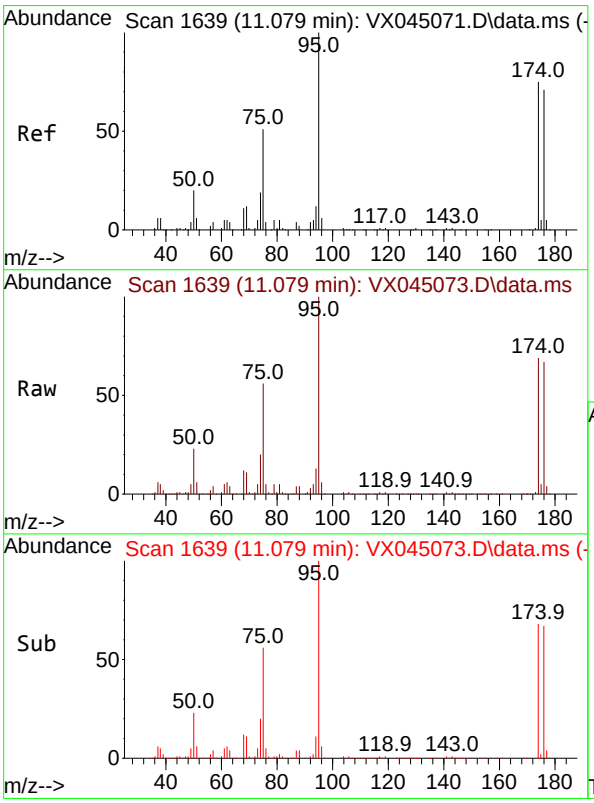
#61
1,2-Dibromoethane
Concen: 154.074 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 185828

Ion	Ratio	Lower	Upper
107	100		
109	95.2	76.1	114.1

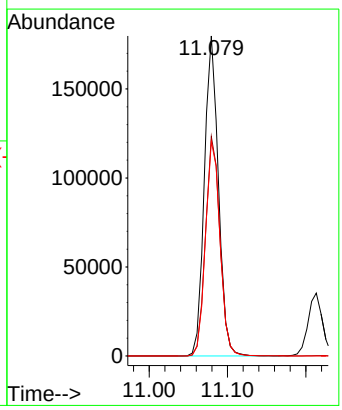


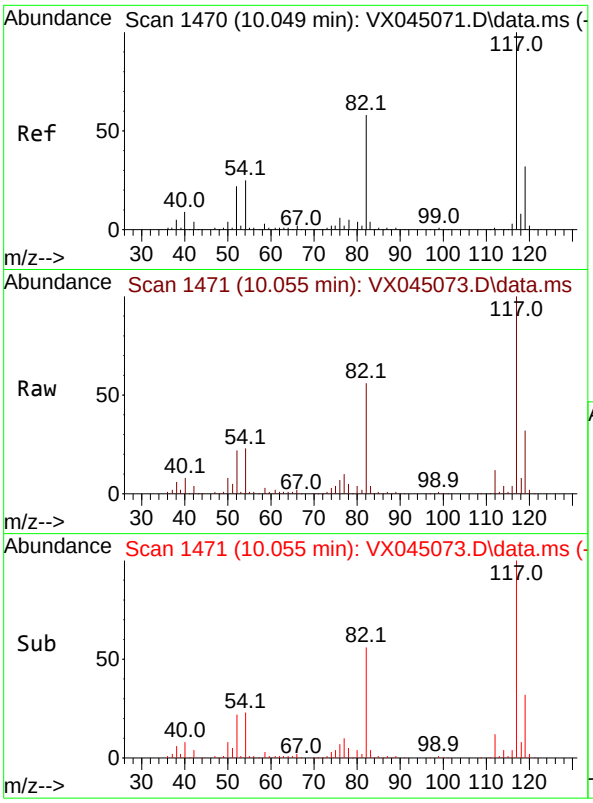


#62
4-Bromofluorobenzene
Concen: 154.420 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 95 Resp: 223346

Ion	Ratio	Lower	Upper
95	100		
174	70.4	0.0	148.2
176	69.4	0.0	141.4



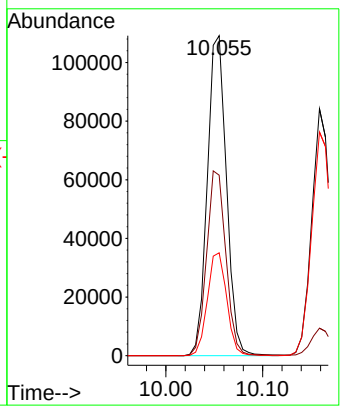


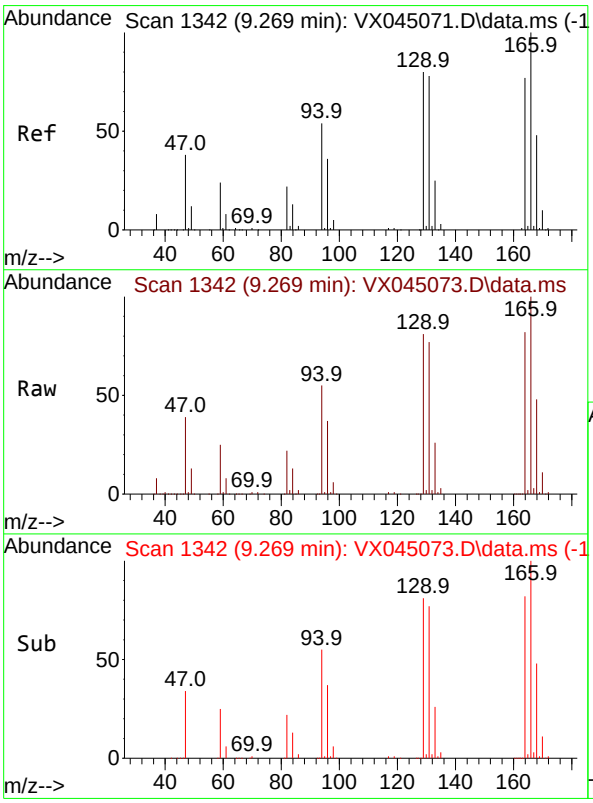
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 150547

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.3	69.5
119	32.1	25.7	38.5

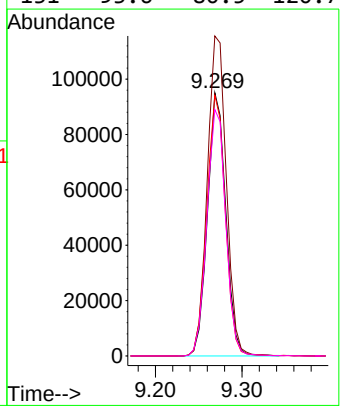


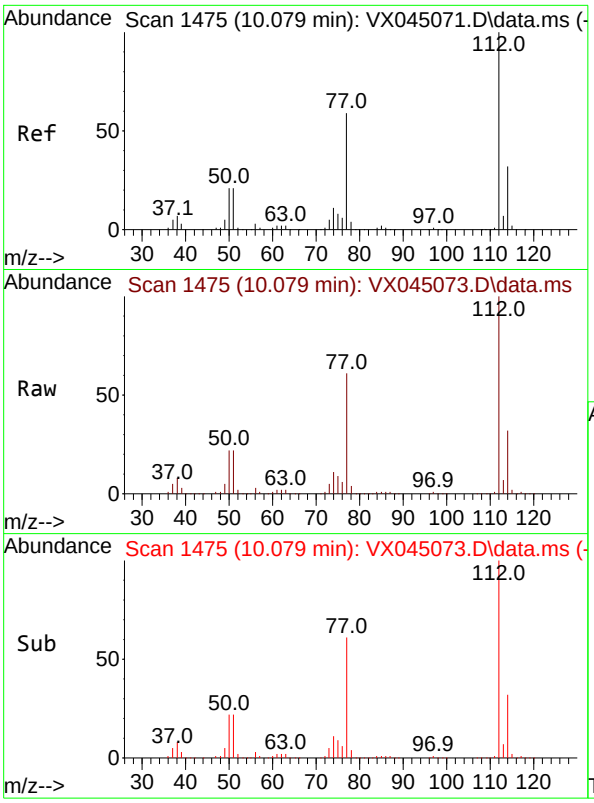


#64
Tetrachloroethene
Concen: 145.906 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:164 Resp: 139536

Ion	Ratio	Lower	Upper
164	100		
166	121.6	103.6	155.4
129	99.0	82.7	124.1
131	93.6	80.5	120.7



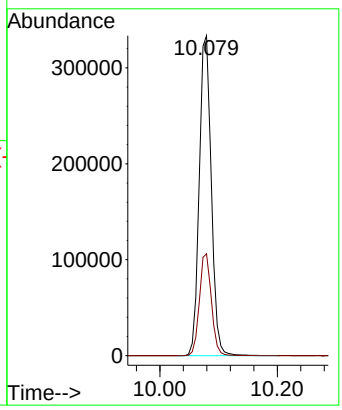


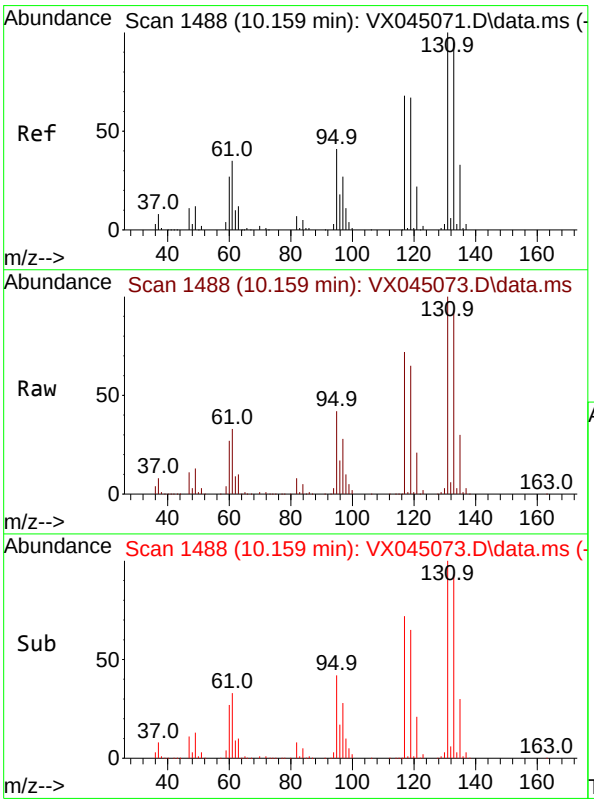
#65
Chlorobenzene
Concen: 146.096 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 472117

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.0	39.0

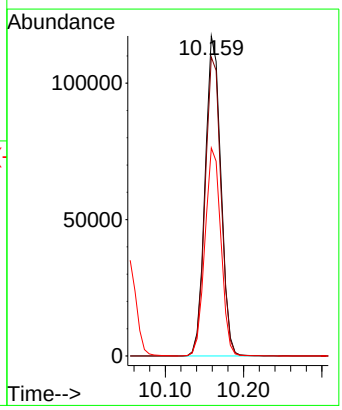


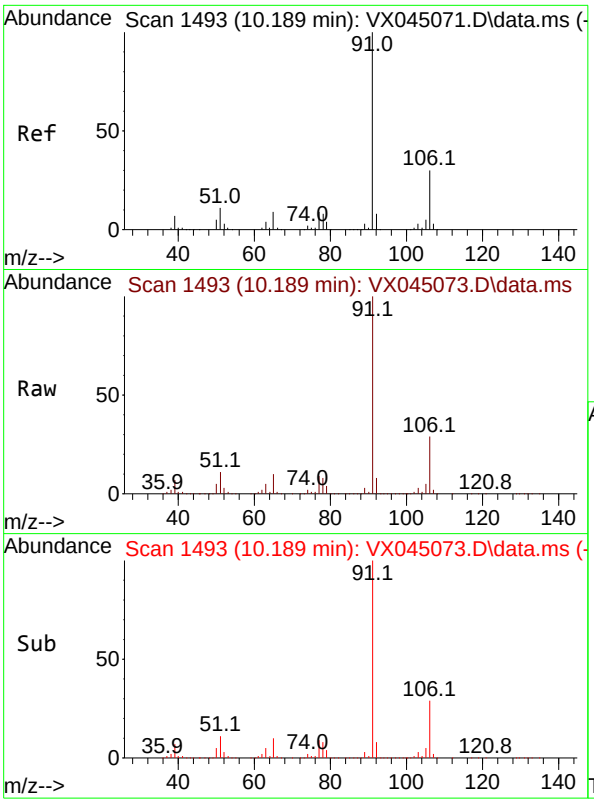


#66
1,1,1,2-Tetrachloroethane
Concen: 156.845 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:131 Resp: 163370

Ion	Ratio	Lower	Upper
131	100		
133	94.2	48.6	145.9
119	66.0	33.9	101.7



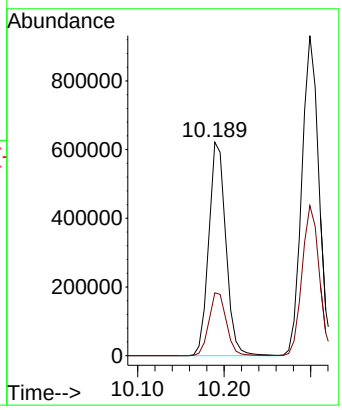


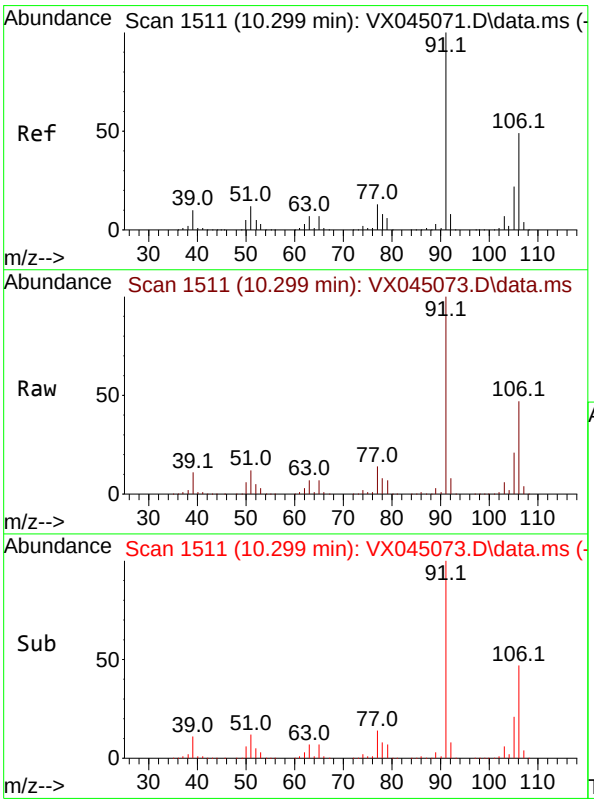
#67
Ethyl Benzene
Concen: 149.191 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 852575

Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.9	35.9

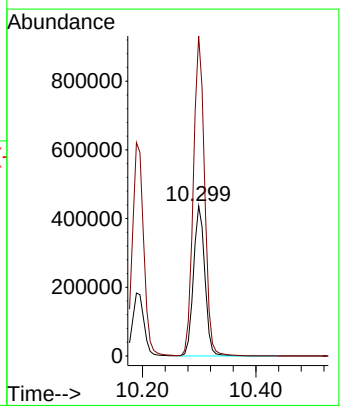


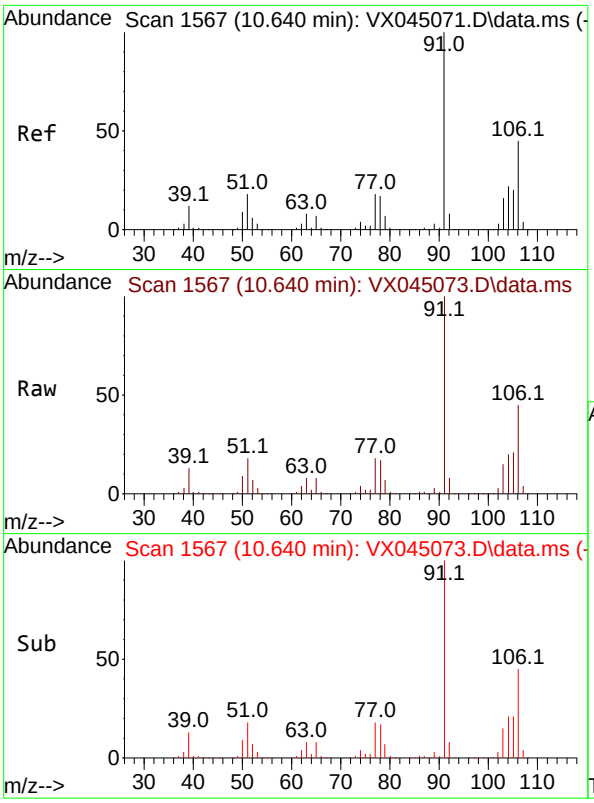


#68
m/p-Xylenes
Concen: 288.655 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:106 Resp: 607523

Ion	Ratio	Lower	Upper
106	100		
91	211.2	165.4	248.0



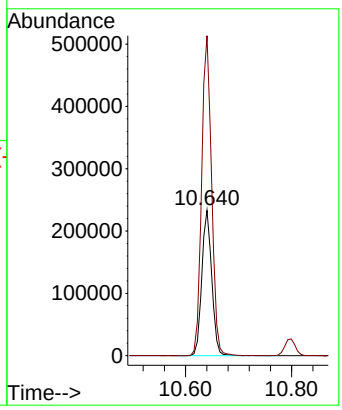


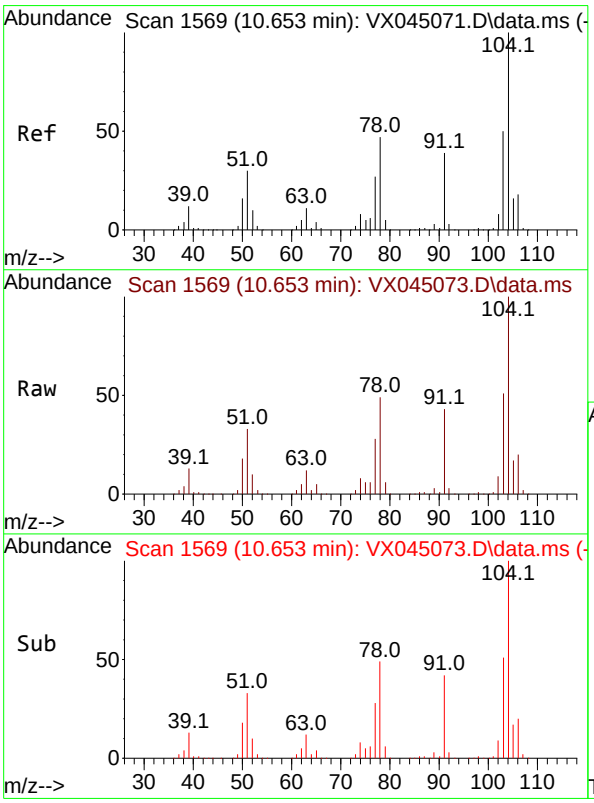
#69
o-Xylene
Concen: 143.259 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 302495

Ion	Ratio	Lower	Upper
106	100		
91	221.3	109.9	329.6

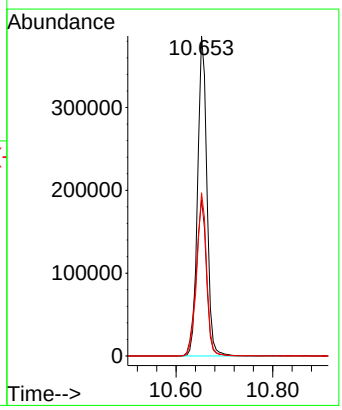


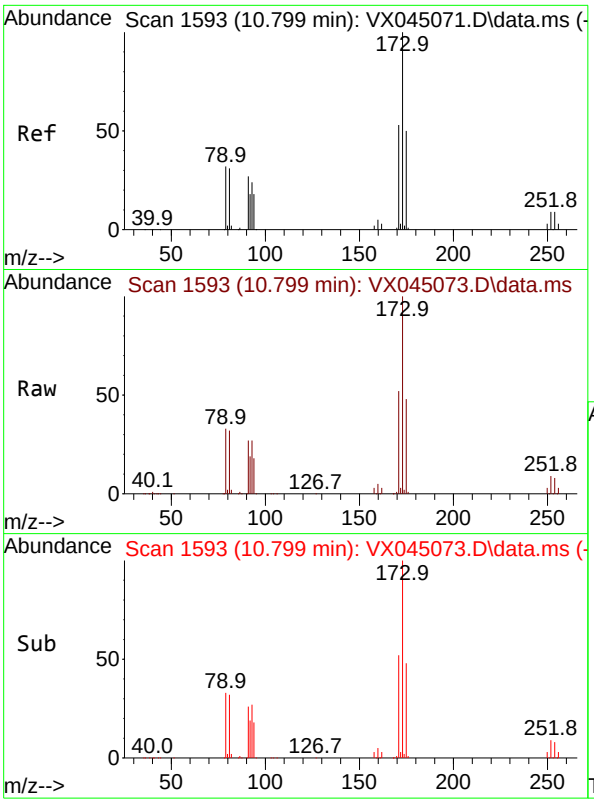


#70
Styrene
Concen: 150.979 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:104 Resp: 512379

Ion	Ratio	Lower	Upper
104	100		
78	54.4	42.2	63.4
103	54.8	43.8	65.8



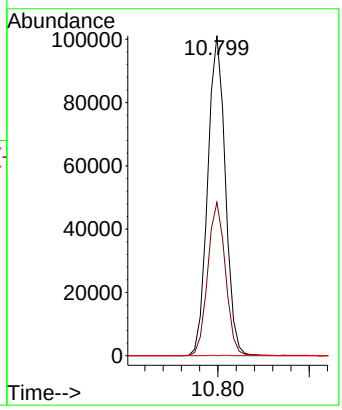


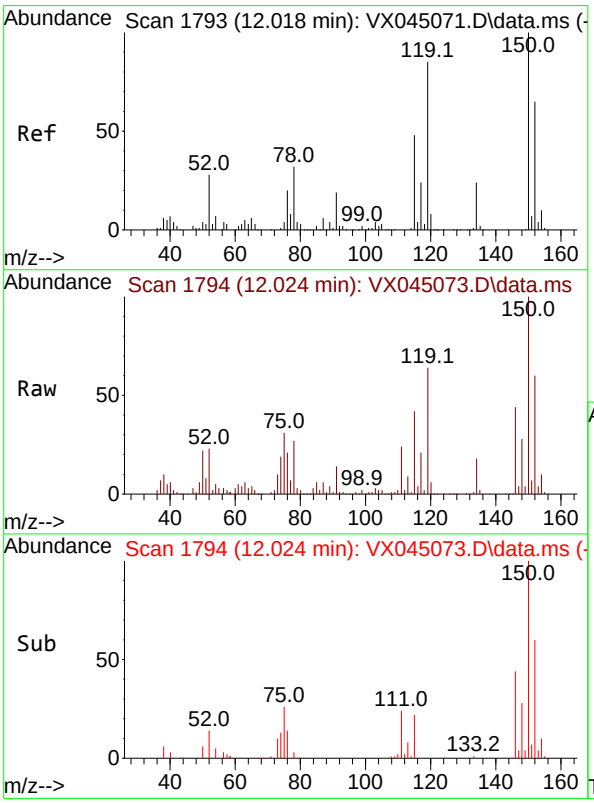
#71
Bromoform
Concen: 174.808 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 135388

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.1	0.0	0.0#

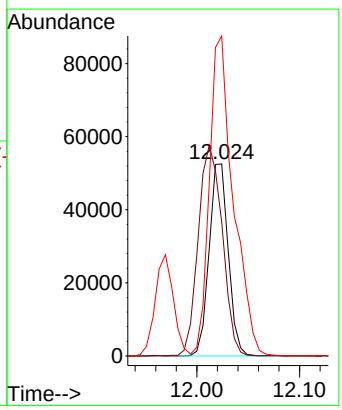


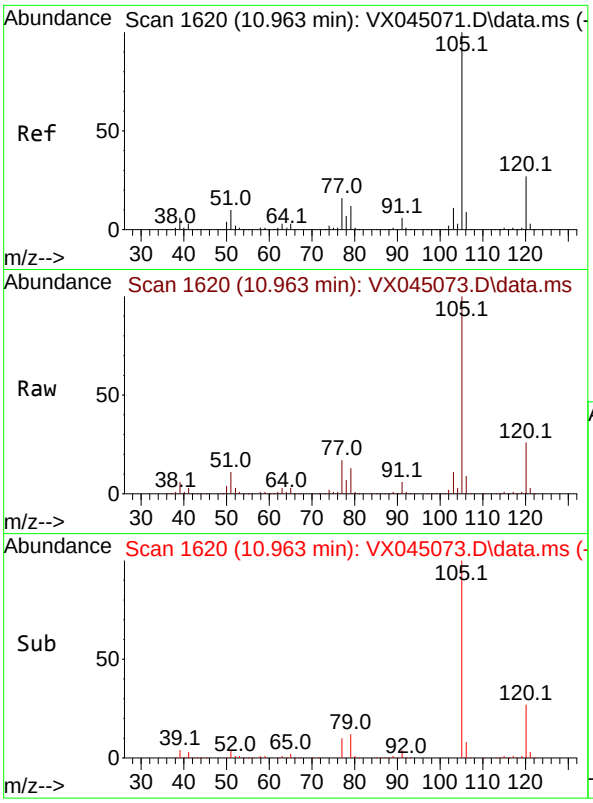


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:152 Resp: 67685

Ion	Ratio	Lower	Upper
152	100		
115	138.4	44.2	132.6#
150	208.8	0.0	349.0



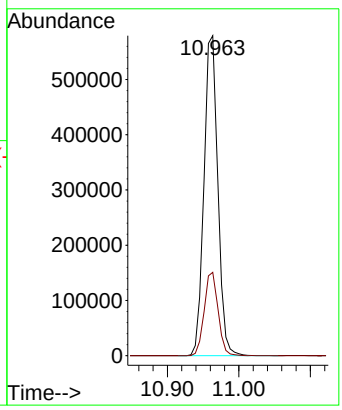


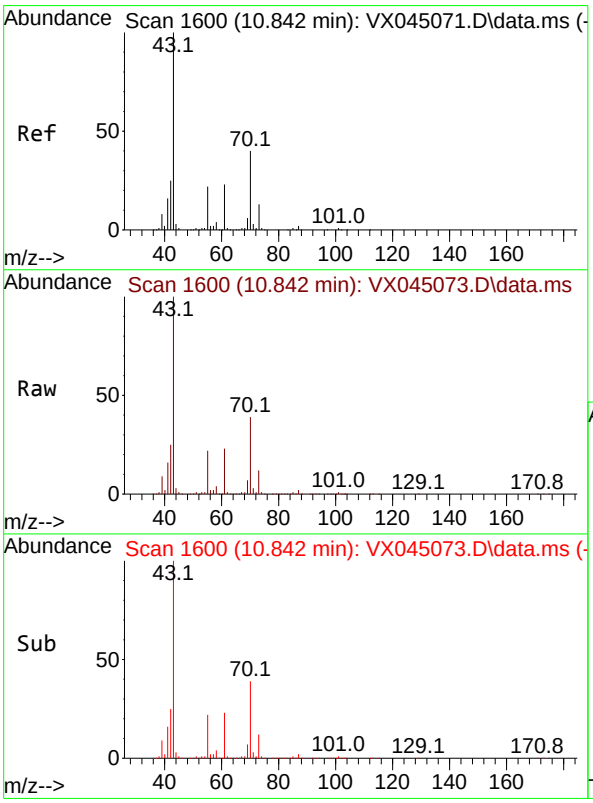
#73
Isopropylbenzene
Concen: 142.719 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 780706

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

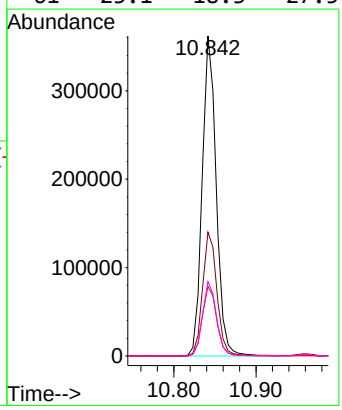


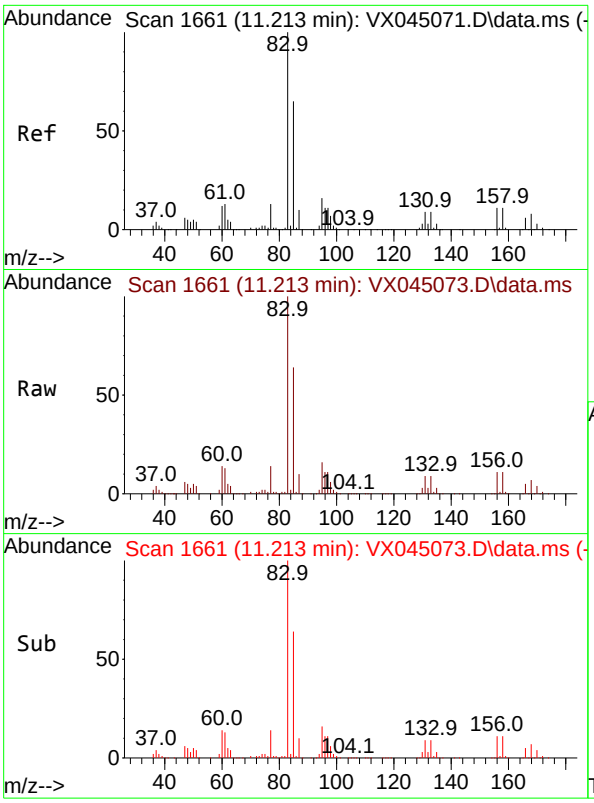


#74
N-amyl acetate
Concen: 173.042 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 429686

Ion	Ratio	Lower	Upper
43	100		
70	39.6	31.8	47.6
55	22.5	18.3	27.5
61	23.1	18.3	27.5



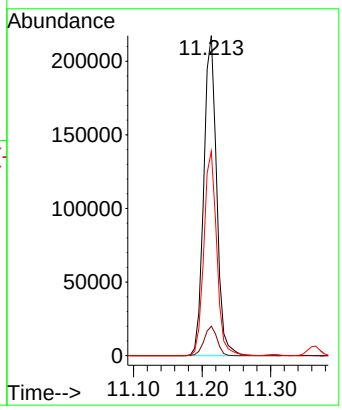


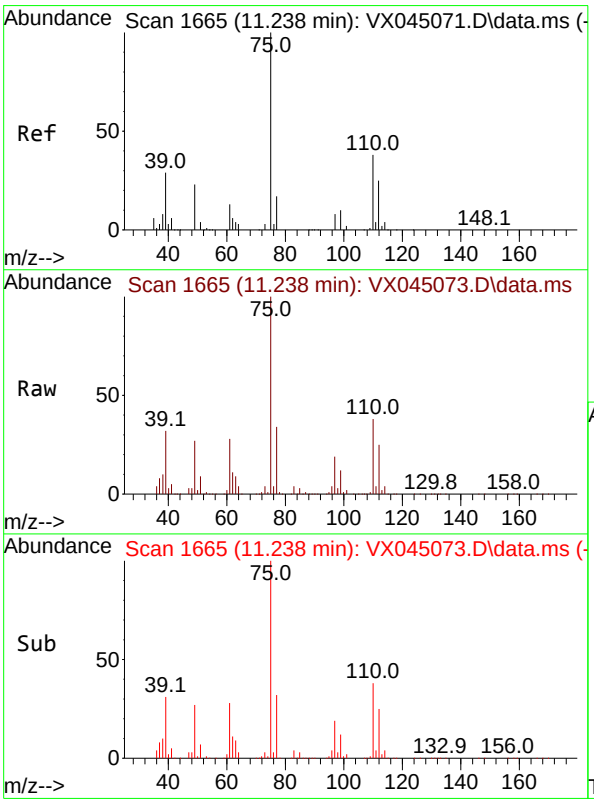
#75
1,1,2,2-Tetrachloroethane
Concen: 150.458 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 283558

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.4
85	63.8	31.7	95.1

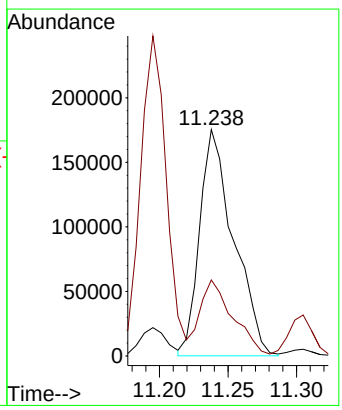


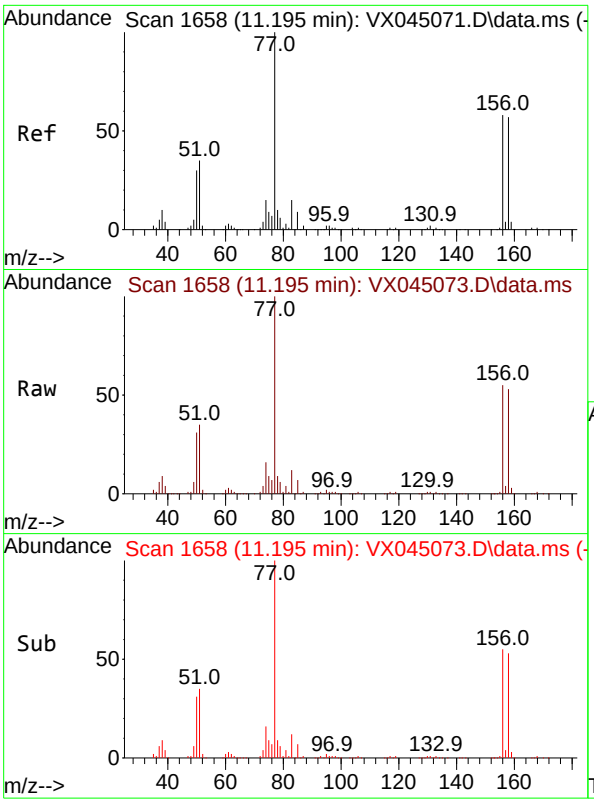


#76
1,2,3-Trichloropropane
Concen: 201.103 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 303633

Ion	Ratio	Lower	Upper
75	100		
77	32.6	20.7	62.1



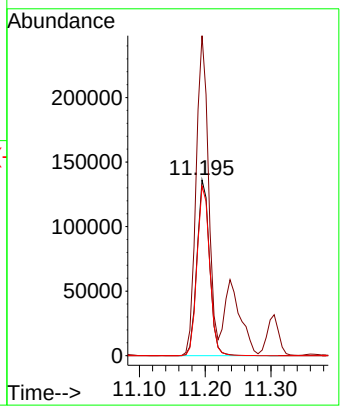


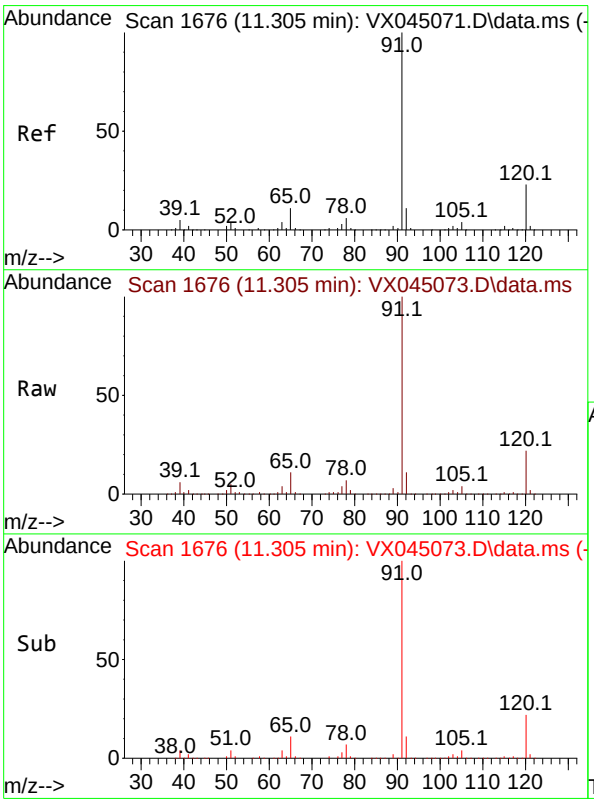
#77
Bromobenzene
Concen: 145.760 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 180997

Ion	Ratio	Lower	Upper
156	100		
77	179.4	85.8	257.4
158	97.1	48.4	145.2

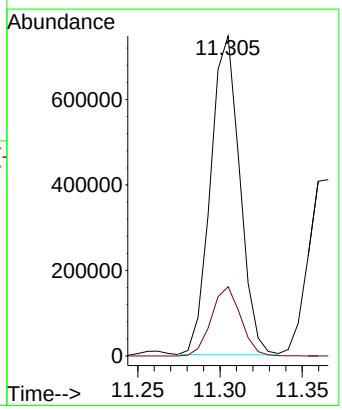


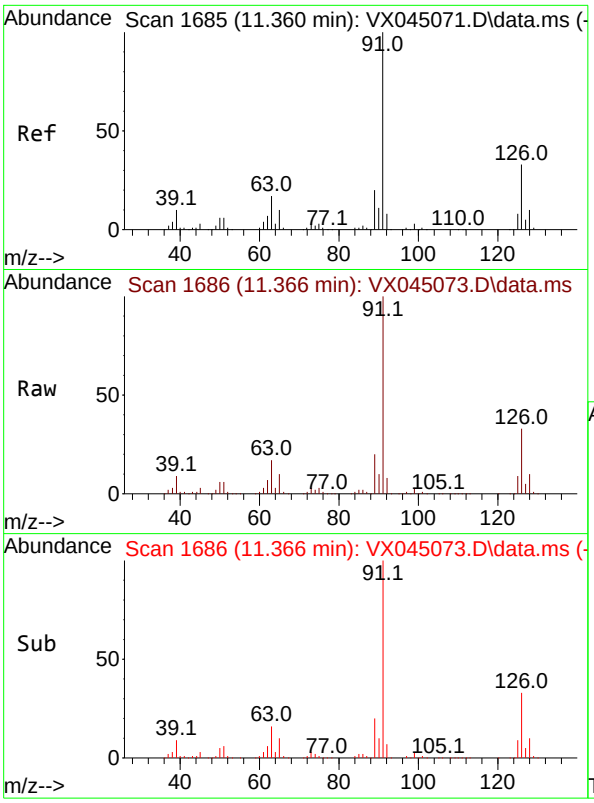


#78
n-propylbenzene
Concen: 146.395 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 923593

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6



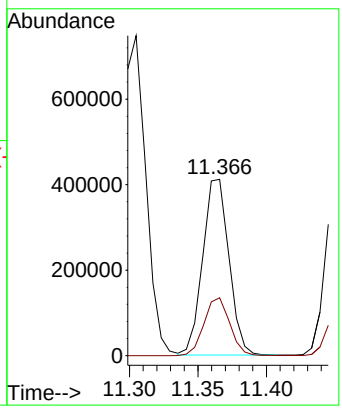


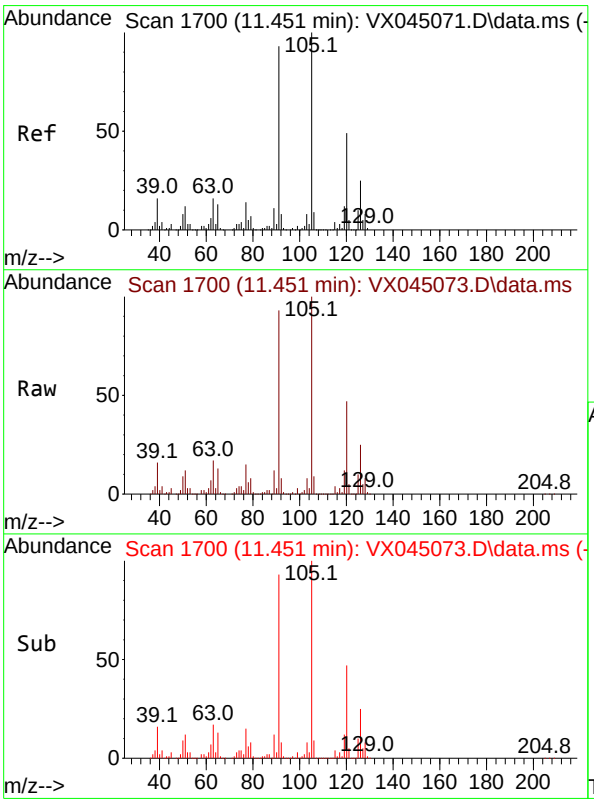
#79
2-Chlorotoluene
Concen: 141.695 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 548695

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.4	49.4

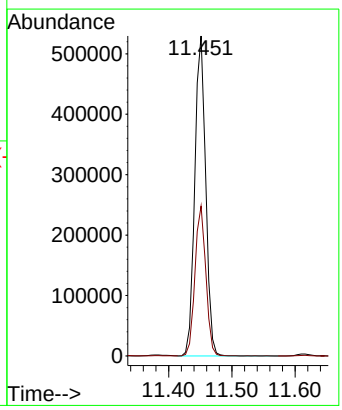


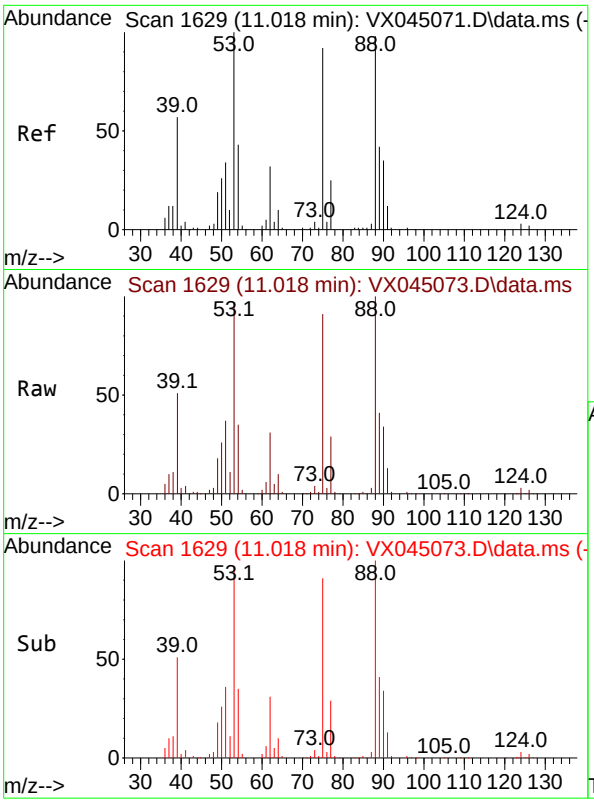


#80
1,3,5-Trimethylbenzene
Concen: 143.293 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 635832

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.1	72.2



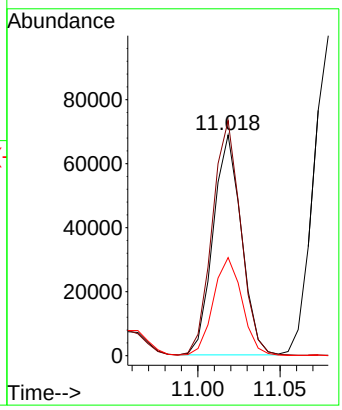


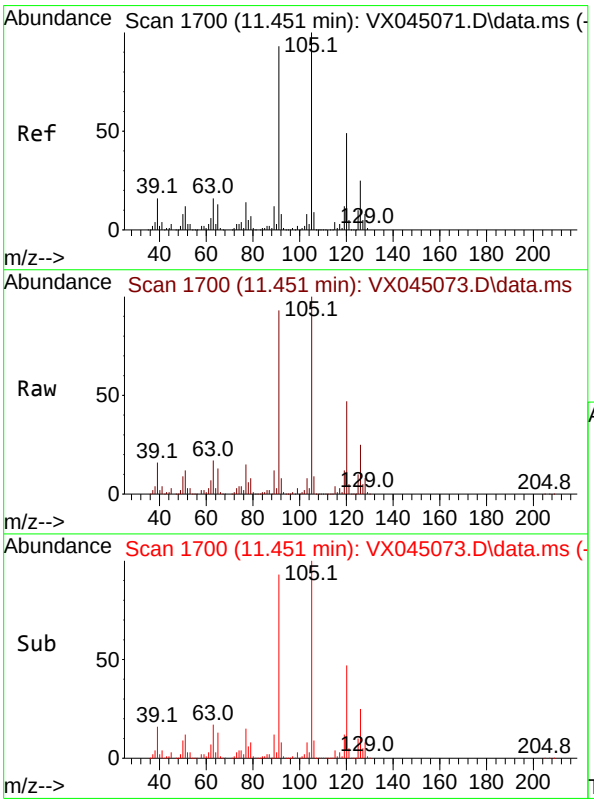
#81
trans-1,4-Dichloro-2-butene
Concen: 147.761 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 82267

Ion	Ratio	Lower	Upper
75	100		
53	107.7	88.5	132.7
89	45.2	36.2	54.4

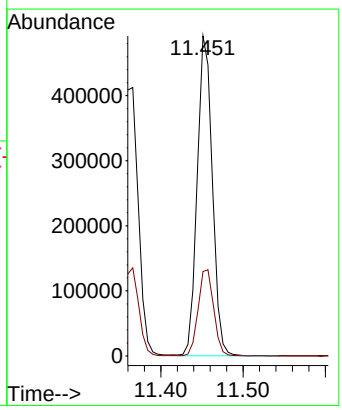


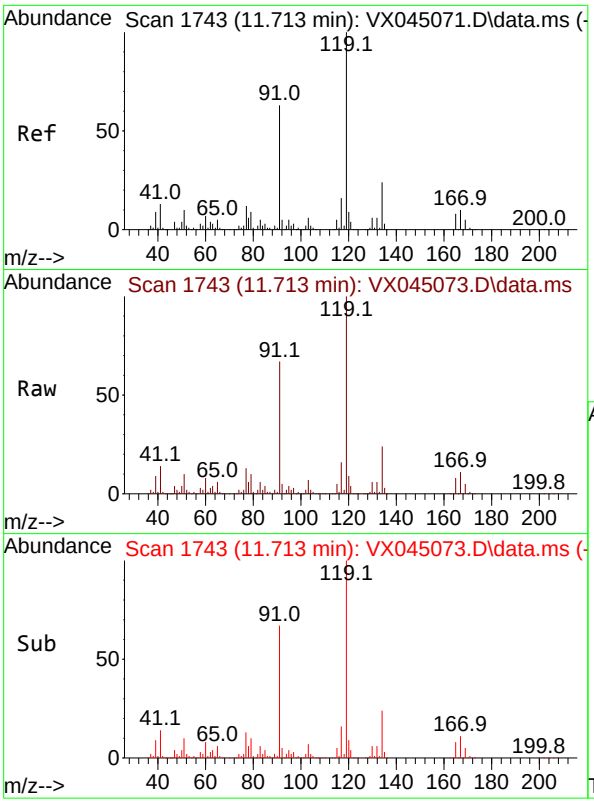


#82
4-Chlorotoluene
Concen: 146.464 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 627816

Ion	Ratio	Lower	Upper
91	100		
126	27.8	14.1	42.4



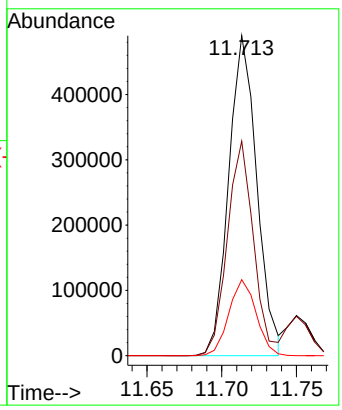


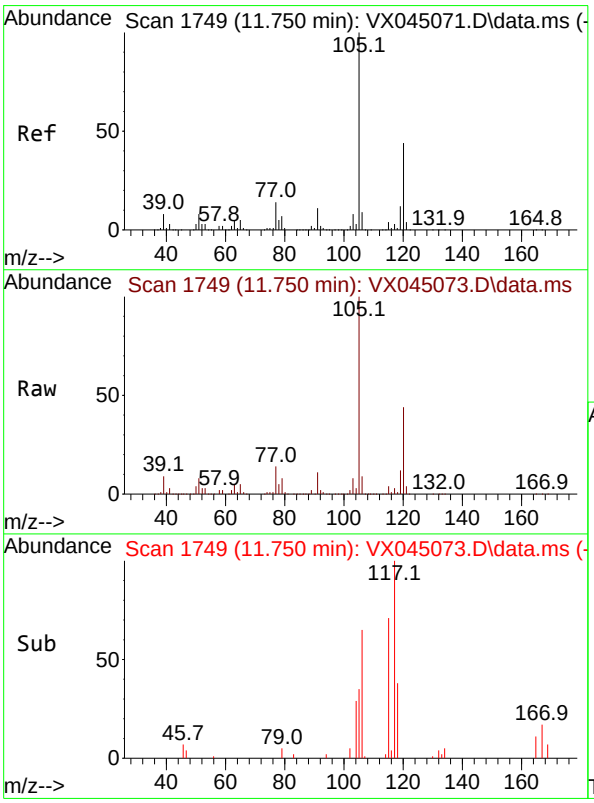
#83
tert-Butylbenzene
Concen: 142.974 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 641713

Ion	Ratio	Lower	Upper
119	100		
91	62.5	30.7	92.1
134	23.0	11.7	35.0

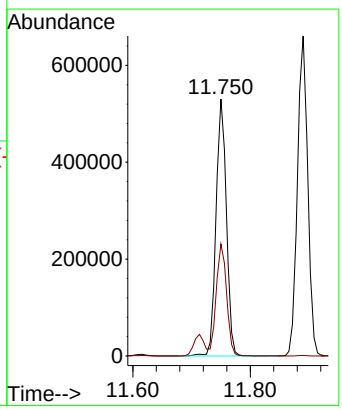


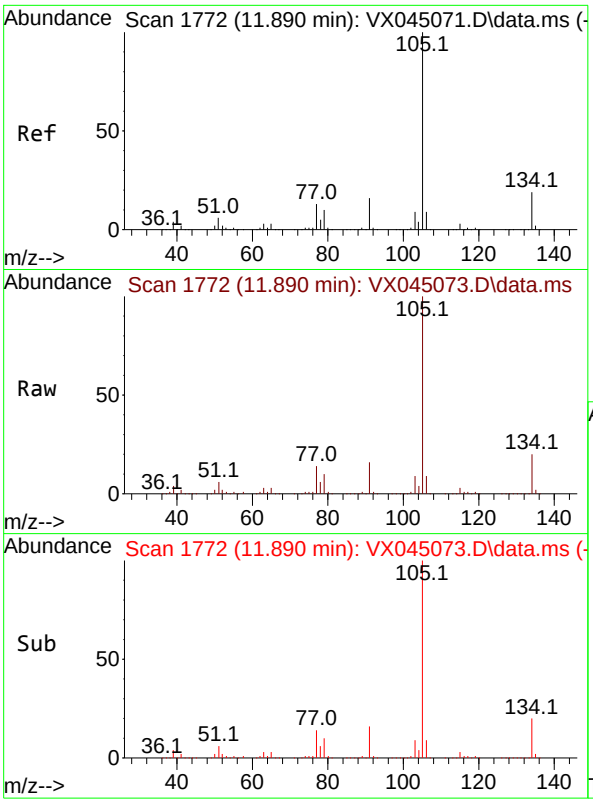


#84
1,2,4-Trimethylbenzene
Concen: 148.135 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 647248

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



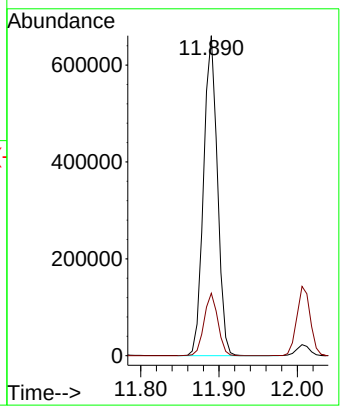


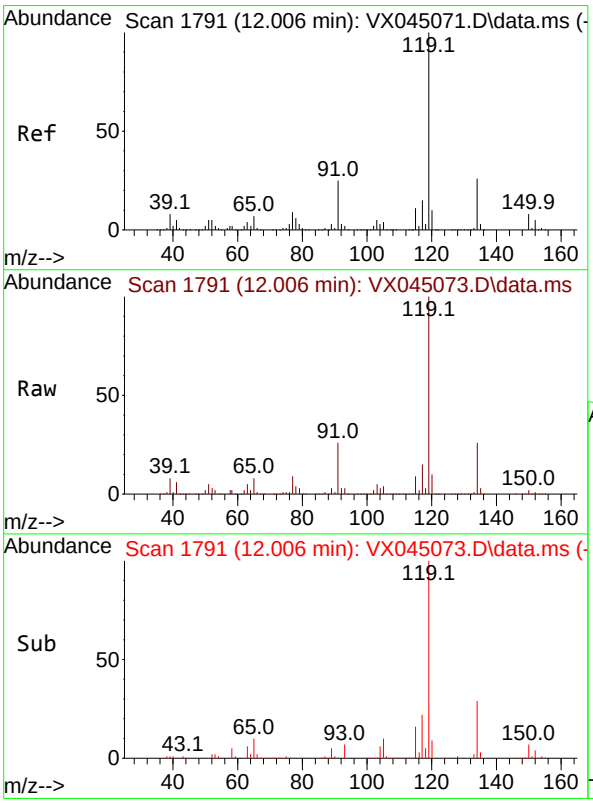
#85
sec-Butylbenzene
Concen: 145.383 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 807713

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.4

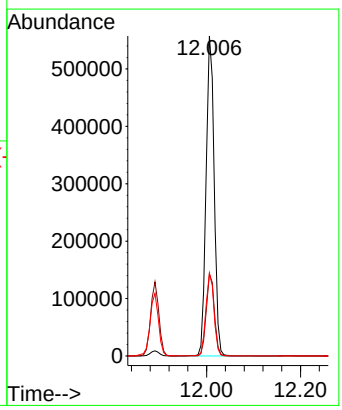


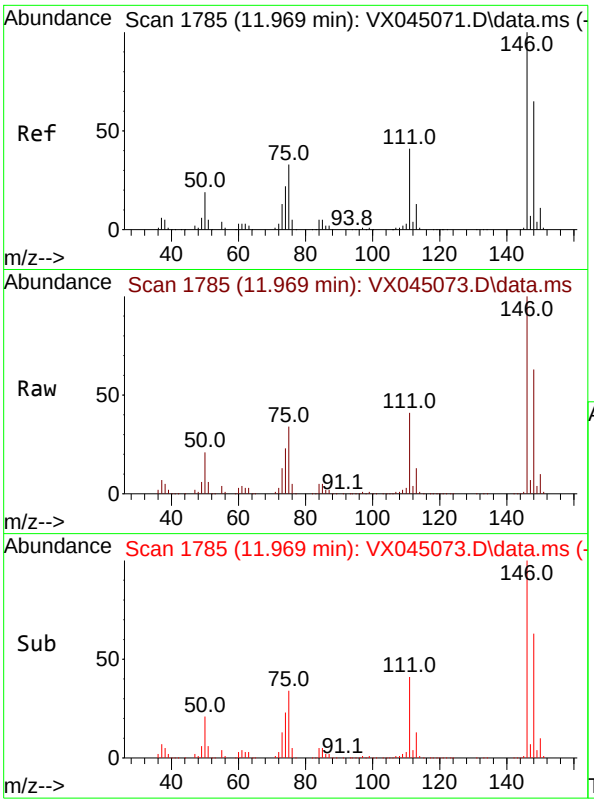


#86
p-Isopropyltoluene
Concen: 149.075 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:119 Resp: 664916

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	25.8	12.7	38.0



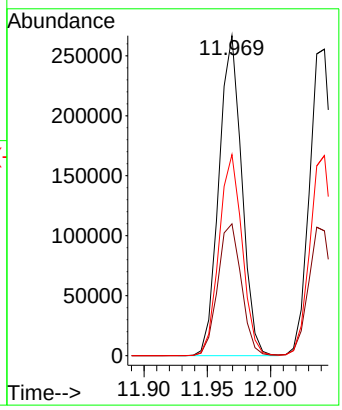


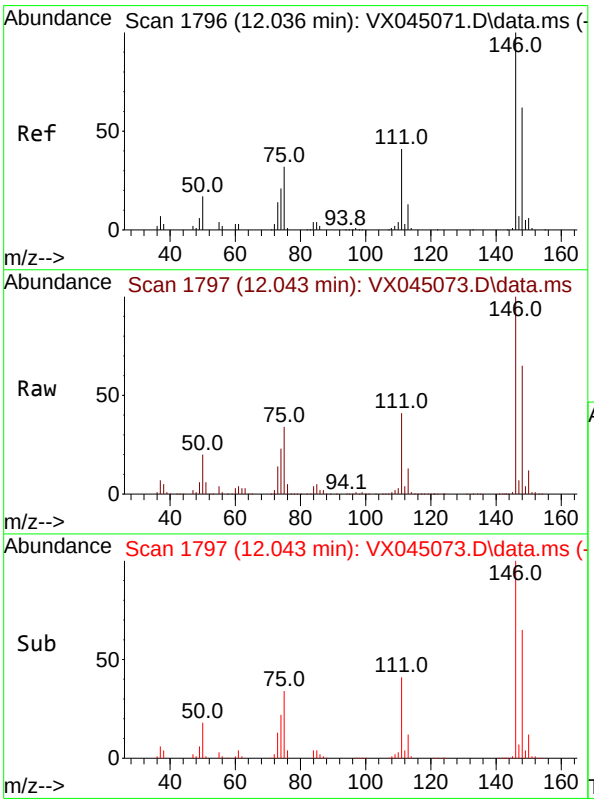
#87
1,3-Dichlorobenzene
Concen: 147.488 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 334751

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.1	63.4
148	63.6	31.9	95.7

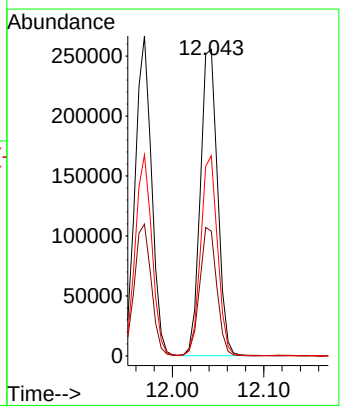


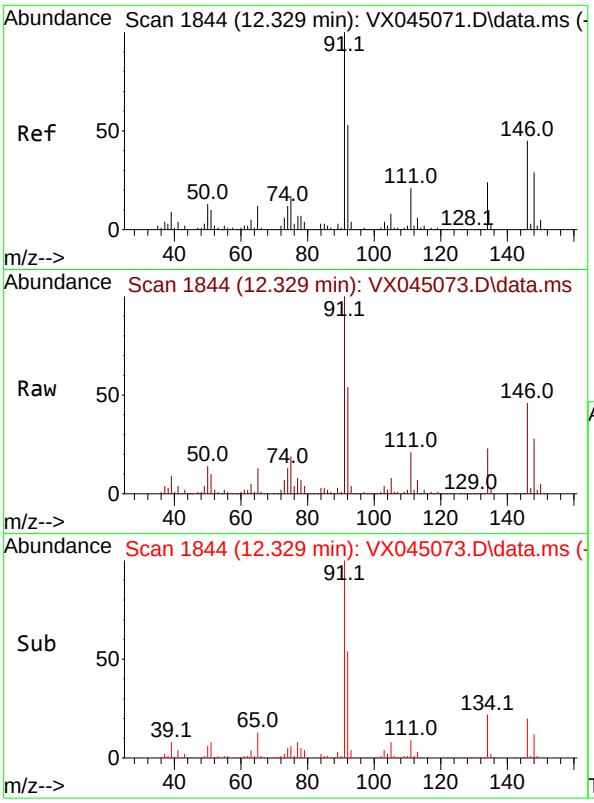


#88
1,4-Dichlorobenzene
Concen: 145.189 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:146 Resp: 333594

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.2	60.5
148	64.0	31.9	95.9



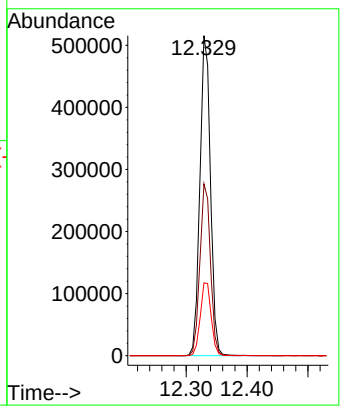


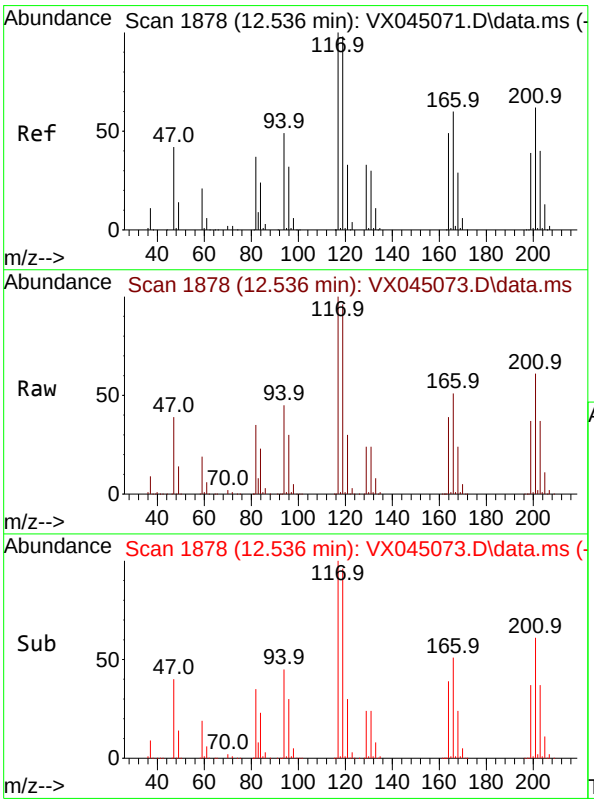
#89
n-Butylbenzene
Concen: 158.324 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 620757

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	23.6	12.2	36.6

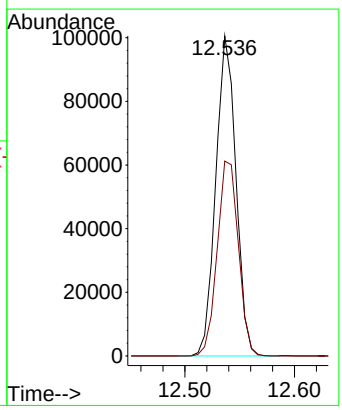


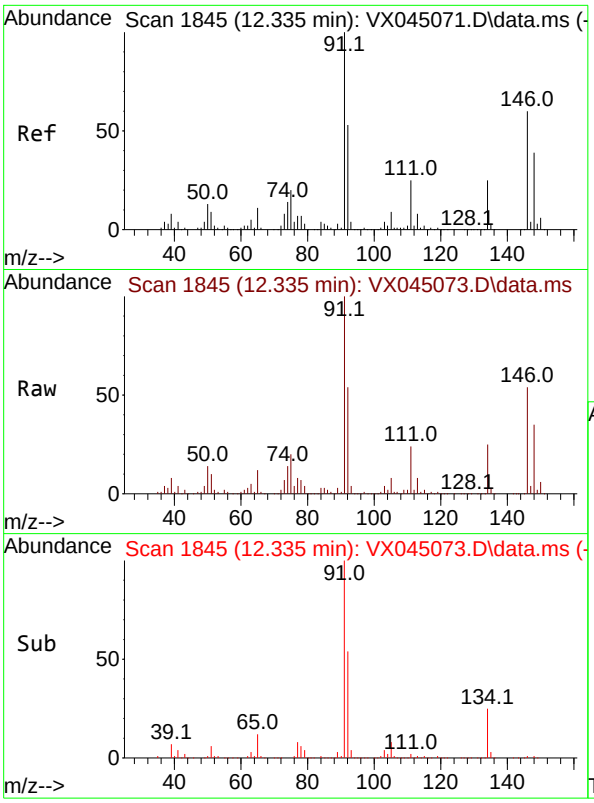


#90
Hexachloroethane
Concen: 154.554 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 128582

Ion	Ratio	Lower	Upper
117	100		
201	64.2	31.9	95.9



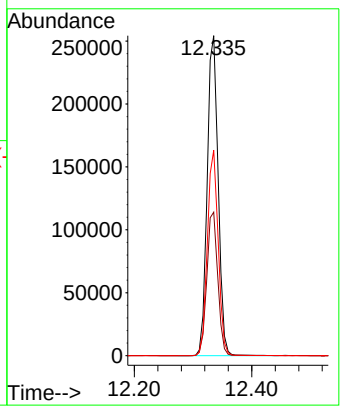


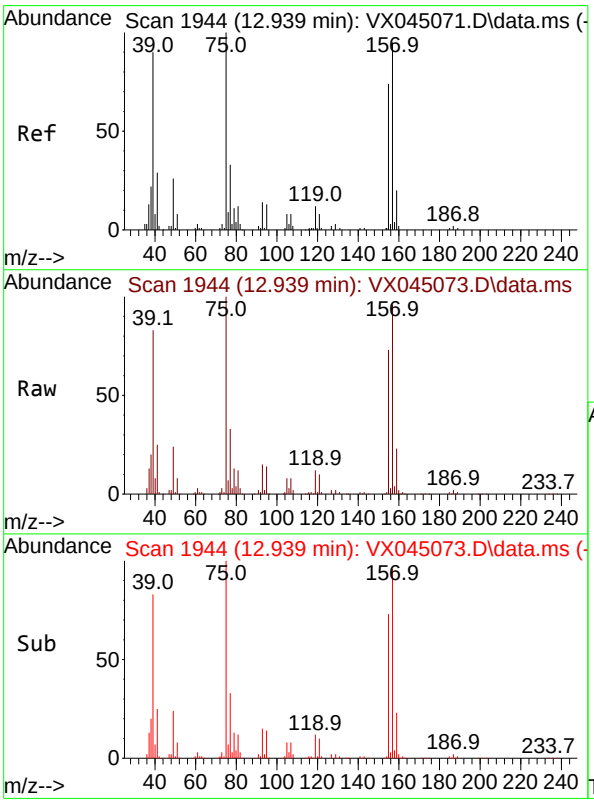
#91
1,2-Dichlorobenzene
Concen: 147.436 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 329318

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.6	65.0
148	63.4	31.9	95.9

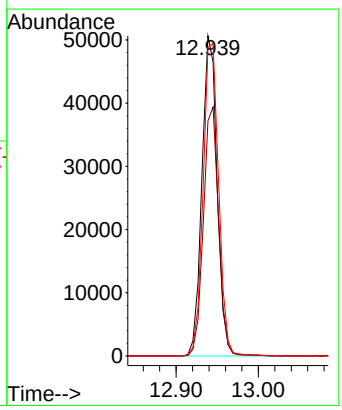


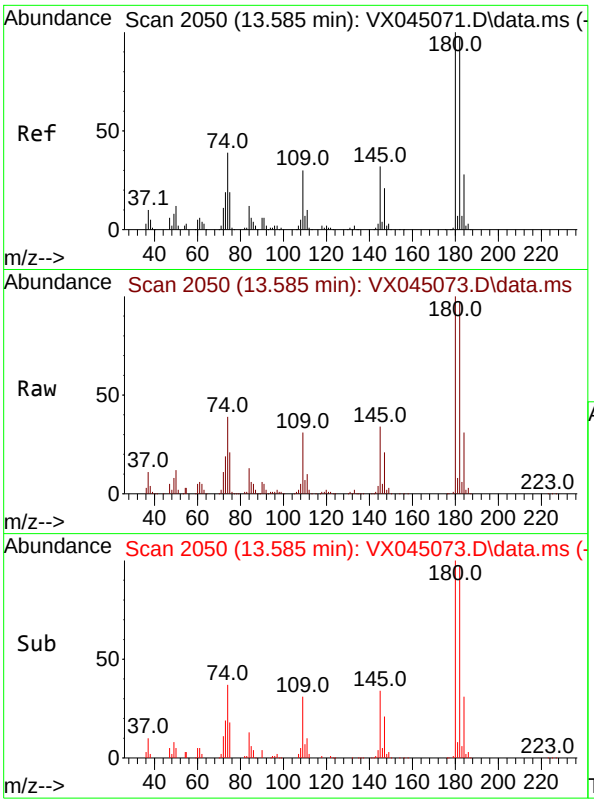


#92
1,2-Dibromo-3-Chloropropane
Concen: 186.240 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 64958

Ion	Ratio	Lower	Upper
75	100		
155	77.9	39.6	118.7
157	100.1	51.1	153.4



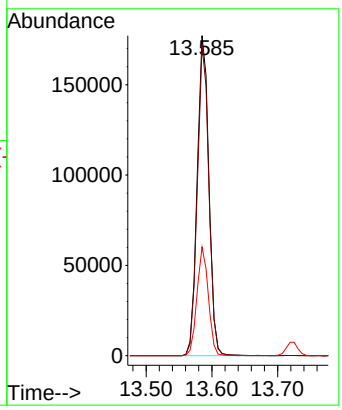


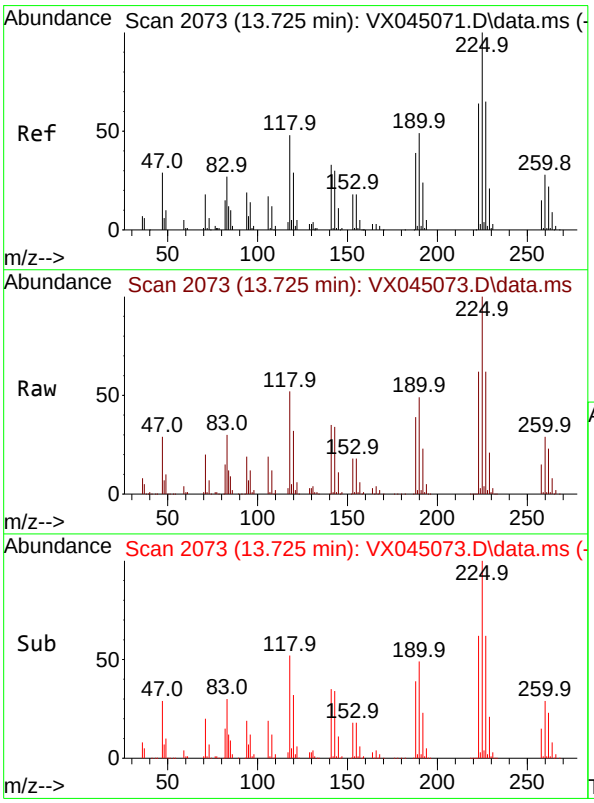
#93
1,2,4-Trichlorobenzene
Concen: 162.416 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 219313

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	141.9
145	32.9	16.3	48.9

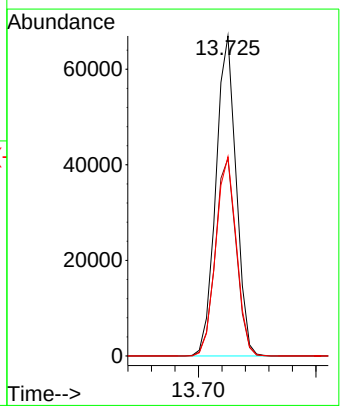


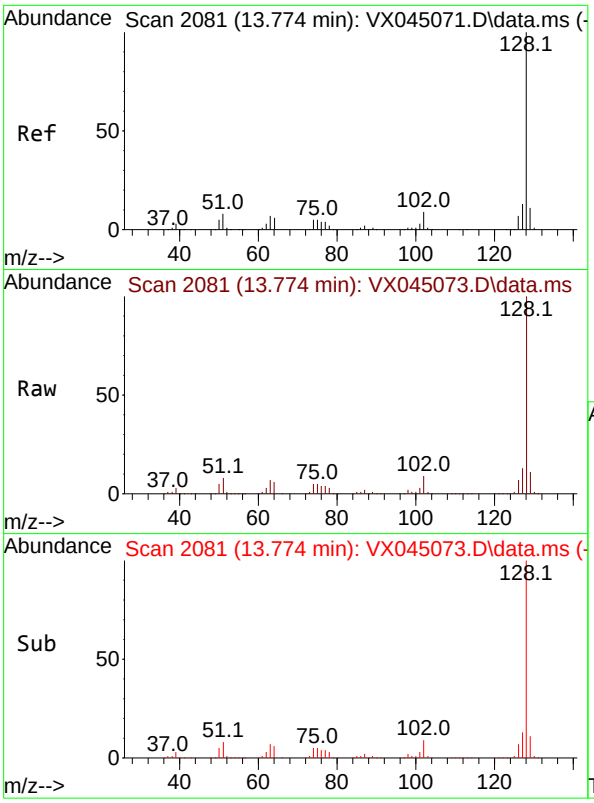


#94
Hexachlorobutadiene
Concen: 149.034 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:225 Resp: 80241

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.7
227	63.4	31.4	94.0



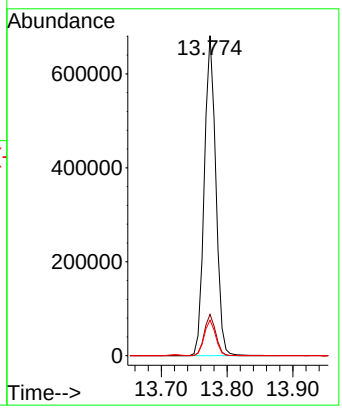


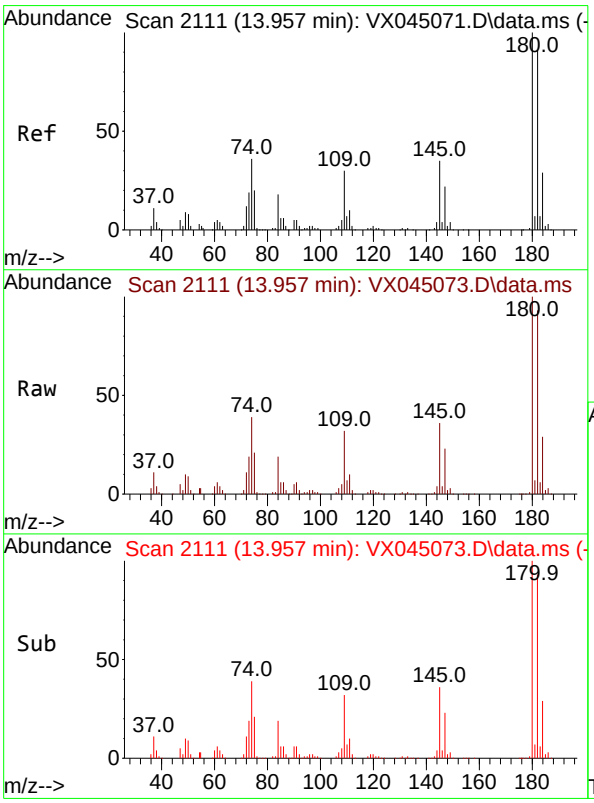
#95
Naphthalene
Concen: 168.538 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 828949

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	11.1	8.7	13.1

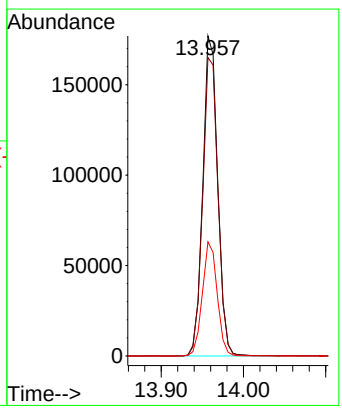




#96
1,2,3-Trichlorobenzene
Concen: 162.727 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:180 Resp: 222608

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.5	142.6
145	35.5	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	101603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	184964	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157797	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69357	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	81288	50.297	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.600%			
35) Dibromofluoromethane	5.385	113	62880	50.841	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.680%			
50) Toluene-d8	8.647	98	225823	50.364	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.720%			
62) 4-Bromofluorobenzene	11.079	95	73162	49.240	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	61303	47.933	ug/l	95
3) Chloromethane	1.306	50	76216	48.696	ug/l	94
4) Vinyl Chloride	1.373	62	76901	49.529	ug/l	97
5) Bromomethane	1.593	94	28193	46.190	ug/l	97
6) Chloroethane	1.660	64	30042	41.948	ug/l	99
7) Trichlorofluoromethane	1.867	101	101886	49.569	ug/l	98
8) Diethyl Ether	2.136	74	39113	48.651	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	59477	50.367	ug/l	100
10) Methyl Iodide	2.440	142	74585	50.541	ug/l	98
11) Tert butyl alcohol	2.989	59	73034	238.577	ug/l	98
12) 1,1-Dichloroethene	2.306	96	61885	49.568	ug/l	98
13) Acrolein	2.239	56	95989	271.255	ug/l	99
14) Allyl chloride	2.654	41	114875	51.691	ug/l	98
15) Acrylonitrile	3.068	53	209607	255.479	ug/l	99
16) Acetone	2.392	43	182119	242.877	ug/l	100
17) Carbon Disulfide	2.501	76	166105	49.952	ug/l	97
18) Methyl Acetate	2.709	43	90756	50.312	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	222475	53.114	ug/l	99
20) Methylene Chloride	2.782	84	73731	49.639	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	63117	51.172	ug/l	98
22) Diisopropyl ether	3.763	45	243860	53.955	ug/l	97
23) Vinyl Acetate	3.721	43	1064817	282.313	ug/l	100
24) 1,1-Dichloroethane	3.605	63	129666	51.190	ug/l	100
25) 2-Butanone	4.562	43	298021	264.040	ug/l	98
26) 2,2-Dichloropropane	4.471	77	58694	49.401	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	78576	51.606	ug/l	100
28) Bromochloromethane	4.891	49	60849	50.399	ug/l	100
29) Tetrahydrofuran	5.007	42	195768	258.277	ug/l	99
30) Chloroform	5.086	83	126437	50.236	ug/l	98
31) Cyclohexane	5.464	56	110288	50.158	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	103546	50.939	ug/l	99
36) 1,1-Dichloropropene	5.684	75	82722	48.770	ug/l	99
37) Ethyl Acetate	4.714	43	112768	51.596	ug/l	99
38) Carbon Tetrachloride	5.672	117	85110	49.425	ug/l	99
39) Methylcyclohexane	7.372	83	103996	51.169	ug/l	98
40) Benzene	6.031	78	274206	51.195	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	63051	53.352	ug/l		99
42) 1,2-Dichloroethane	6.080	62	97821	50.718	ug/l		100
43) Isopropyl Acetate	6.342	43	175982	54.452	ug/l		100
44) Trichloroethene	7.122	130	61530	48.924	ug/l		99
45) 1,2-Dichloropropane	7.427	63	70350	51.086	ug/l		97
46) Dibromomethane	7.580	93	50284	51.661	ug/l		99
47) Bromodichloromethane	7.817	83	97236	50.930	ug/l		99
48) Methyl methacrylate	7.689	41	87582	54.016	ug/l		100
49) 1,4-Dioxane	7.665	88	35878	1049.007	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	564197	259.995	ug/l		99
52) Toluene	8.714	92	160331	51.020	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	86584	54.247	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	98146	52.732	ug/l		95
55) 1,1,2-Trichloroethane	9.146	97	64985	50.232	ug/l		99
56) Ethyl methacrylate	9.116	69	106405	54.109	ug/l		100
57) 1,3-Dichloropropane	9.305	76	114880	51.312	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	264335	275.557	ug/l		99
59) 2-Hexanone	9.427	43	416731	265.049	ug/l		99
60) Dibromochloromethane	9.518	129	69492	51.374	ug/l		98
61) 1,2-Dibromoethane	9.610	107	66501	51.492	ug/l		99
64) Tetrachloroethene	9.268	164	50659	50.126	ug/l		96
65) Chlorobenzene	10.079	112	168885	50.580	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	56822	51.102	ug/l		98
67) Ethyl Benzene	10.189	91	300324	51.621	ug/l		100
68) m/p-Xylenes	10.299	106	220335	103.454	ug/l		99
69) o-Xylene	10.640	106	108836	50.668	ug/l		100
70) Styrene	10.652	104	181349	52.177	ug/l		100
71) Bromoform	10.799	173	44135	52.636	ug/l	#	100
73) Isopropylbenzene	10.957	105	279278	51.589	ug/l		99
74) N-amyl acetate	10.841	43	144412	56.851	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	100800	50.741	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	102821	63.694	ug/l		87
77) Bromobenzene	11.195	156	64324	50.360	ug/l		100
78) n-propylbenzene	11.305	91	319235	52.203	ug/l		99
79) 2-Chlorotoluene	11.360	91	192150	49.338	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	225622	51.544	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	23943	50.757	ug/l		99
82) 4-Chlorotoluene	11.451	91	216511	51.009	ug/l		100
83) tert-Butylbenzene	11.713	119	227357	50.552	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	228729	51.932	ug/l		100
85) sec-Butylbenzene	11.890	105	283931	52.703	ug/l		100
86) p-Isopropyltoluene	12.006	119	229894	52.803	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	114778	50.372	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	115486	50.097	ug/l		99
89) n-Butylbenzene	12.329	91	204972	54.662	ug/l		99
90) Hexachloroethane	12.536	117	40844	51.866	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	116343	50.899	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	20589	53.199	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	71368	54.834	ug/l		98
94) Hexachlorobutadiene	13.725	225	26697	50.032	ug/l		99
95) Naphthalene	13.774	128	275844	55.163	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	74211	54.049	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

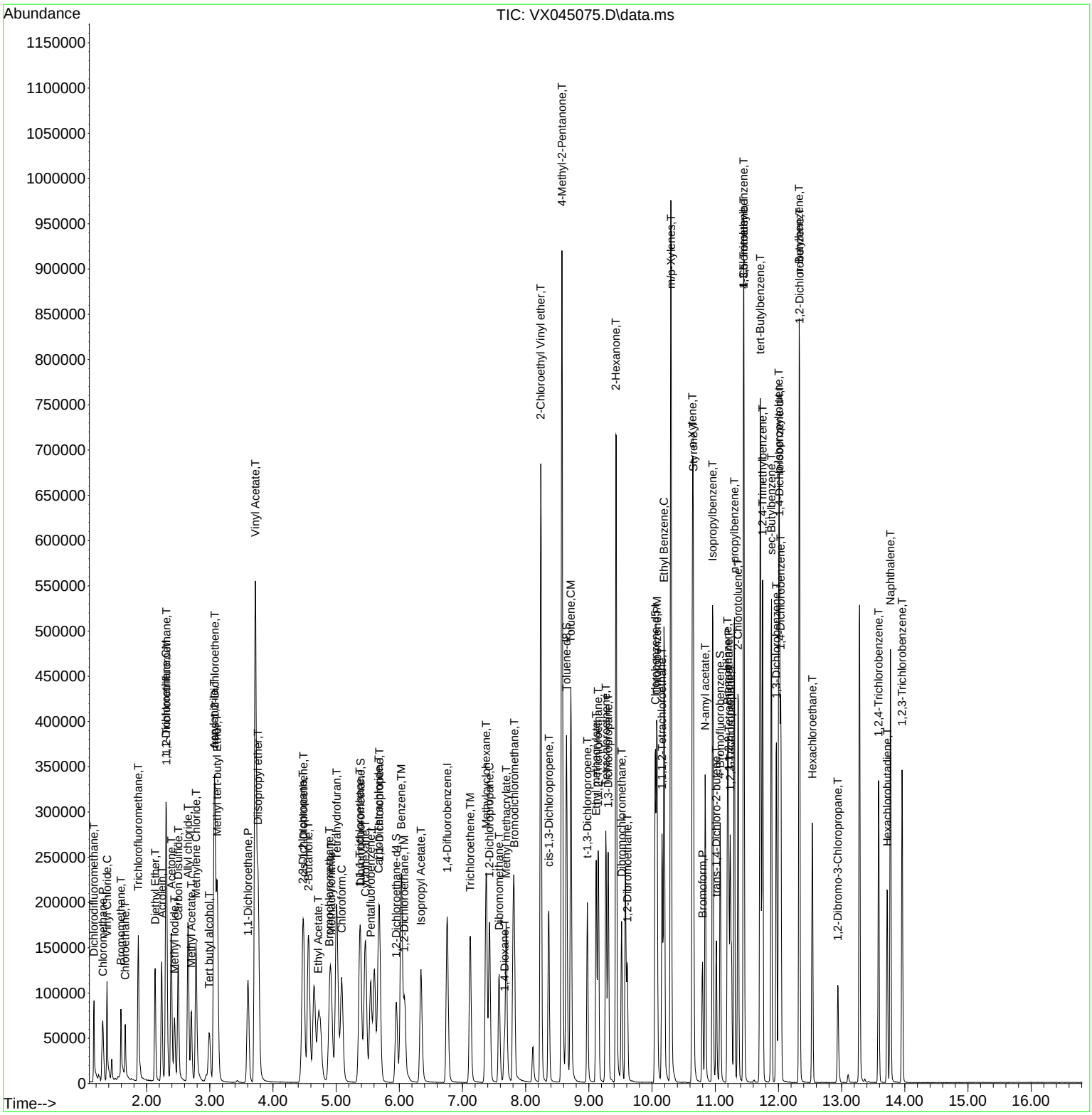
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

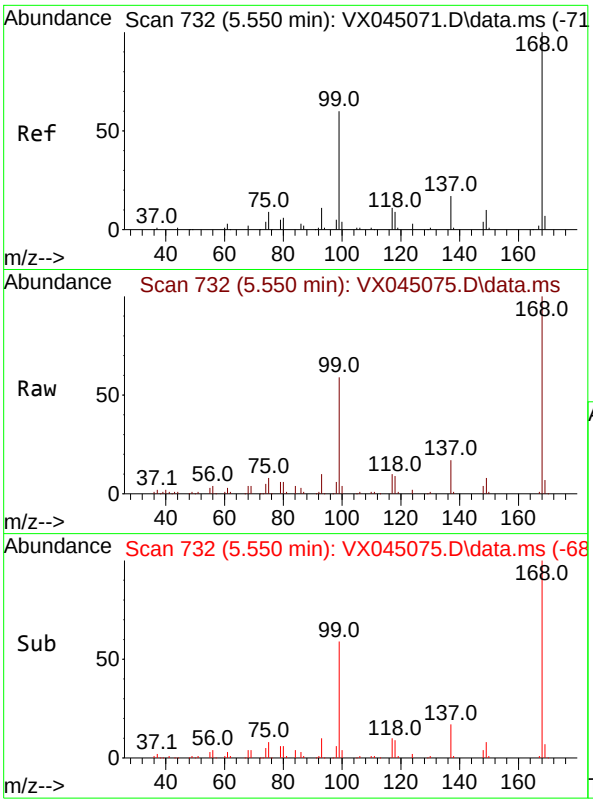
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



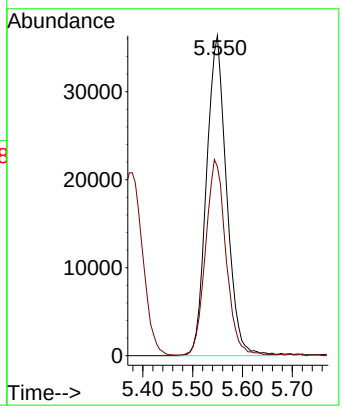


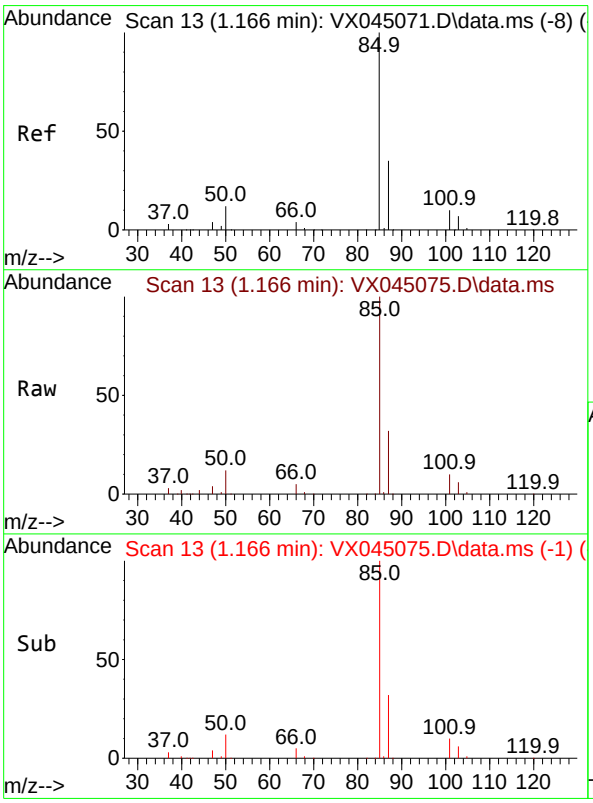
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:168 Resp: 101603

Ion	Ratio	Lower	Upper
168	100		
99	58.9	48.2	72.4

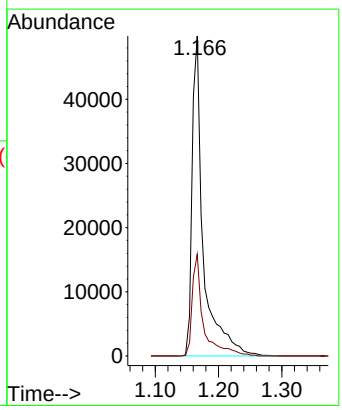


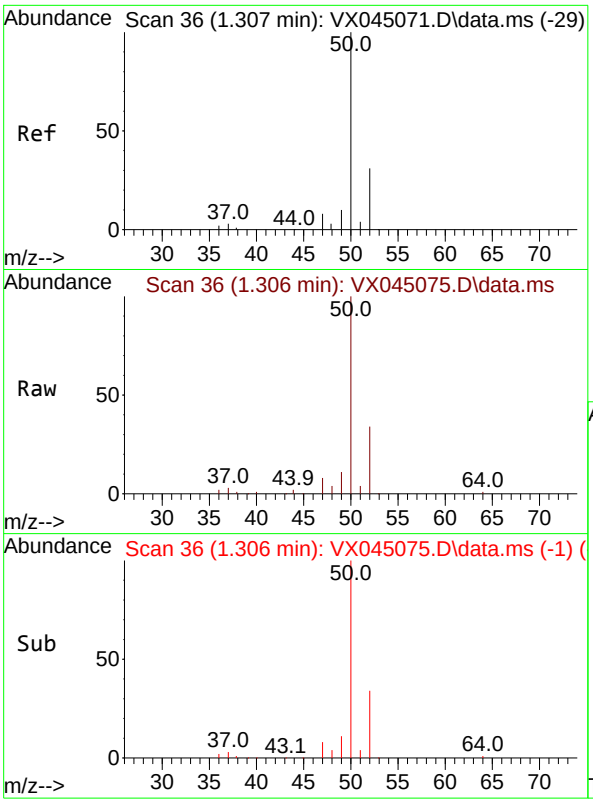


#2
Dichlorodifluoromethane
Concen: 47.933 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 85 Resp: 61303

Ion	Ratio	Lower	Upper
85	100		
87	31.8	17.4	52.3



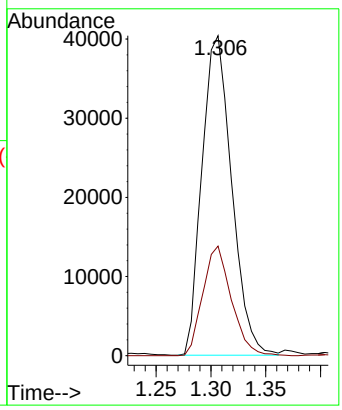


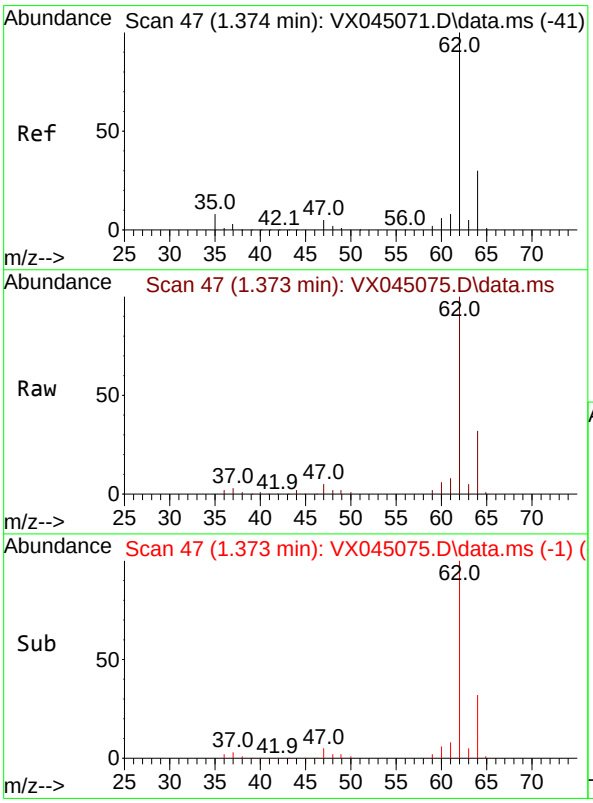
#3
Chloromethane
Concen: 48.696 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 50 Resp: 76216

Ion	Ratio	Lower	Upper
50	100		
52	34.3	25.0	37.4

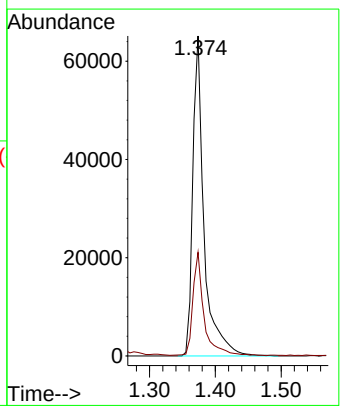


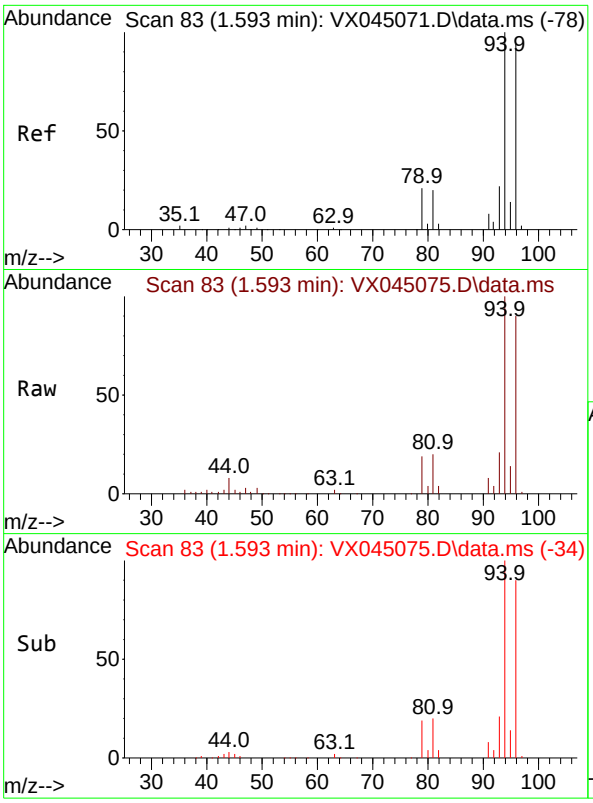


#4
Vinyl Chloride
Concen: 49.529 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 62 Resp: 76901

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.3	36.5



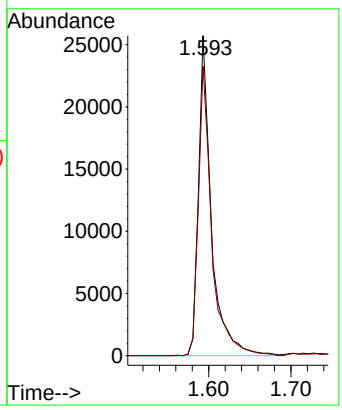


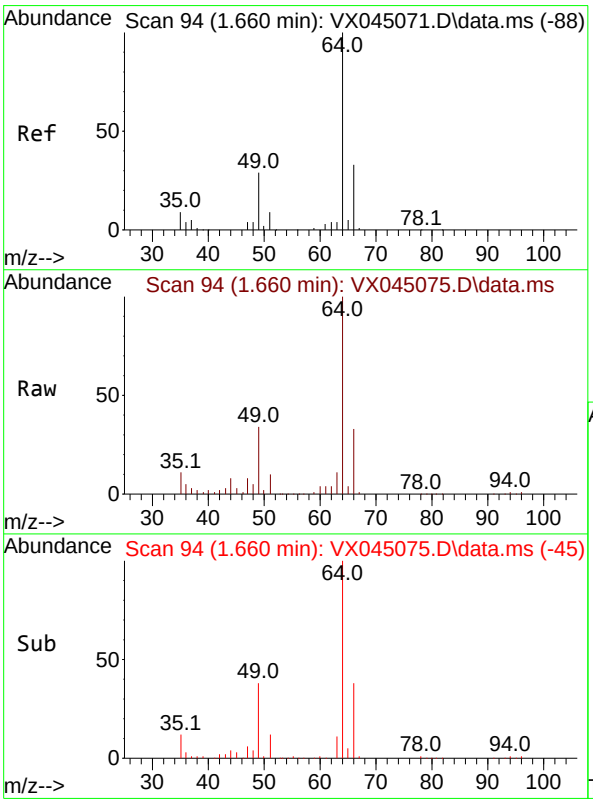
#5
Bromomethane
Concen: 46.190 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 94 Resp: 28193

Ion	Ratio	Lower	Upper
94	100		
96	90.5	75.0	112.4

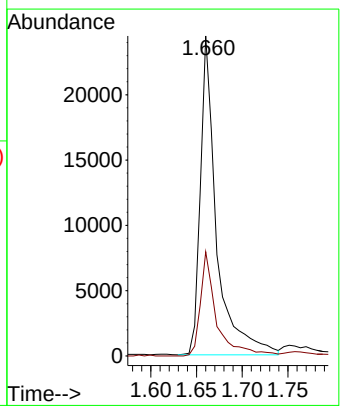


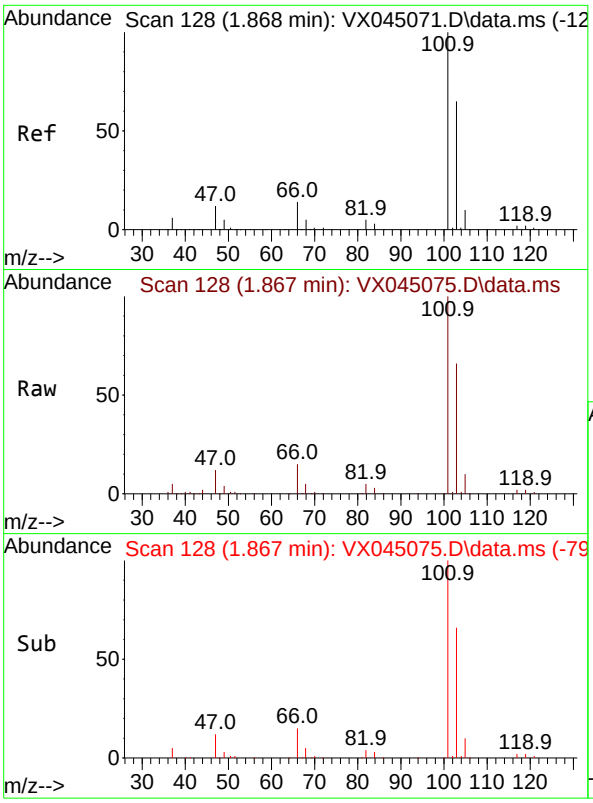


#6
Chloroethane
Concen: 41.948 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 64 Resp: 30042

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.7	40.1



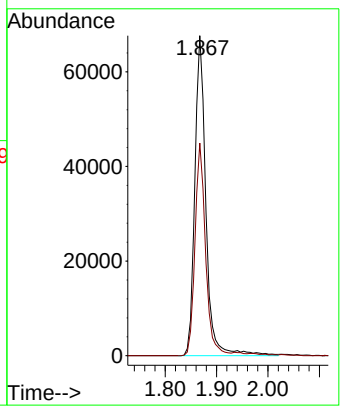


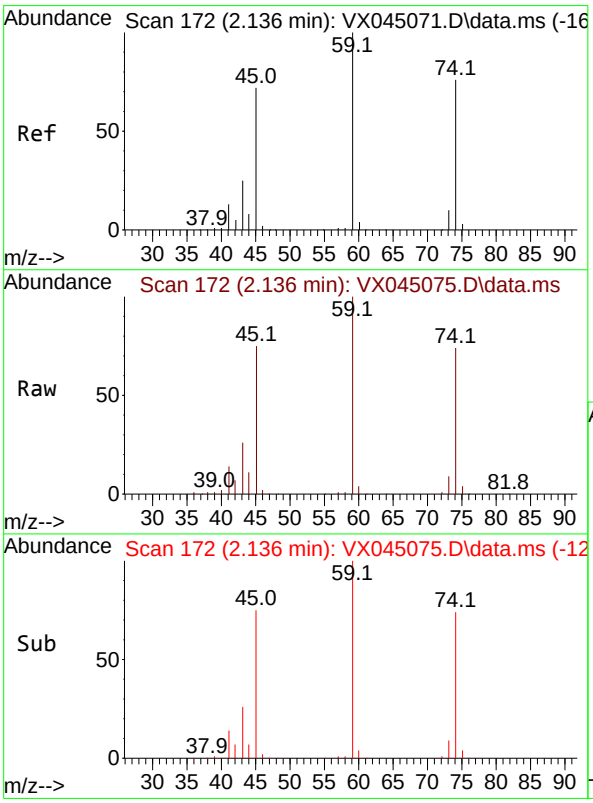
#7
Trichlorofluoromethane
Concen: 49.569 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:101 Resp: 101886

Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.1	78.1

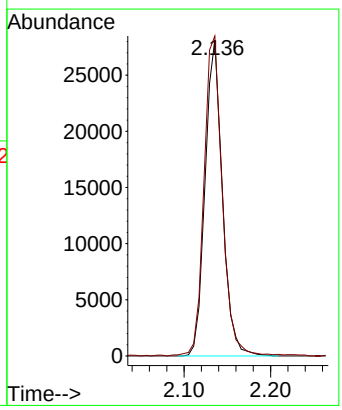


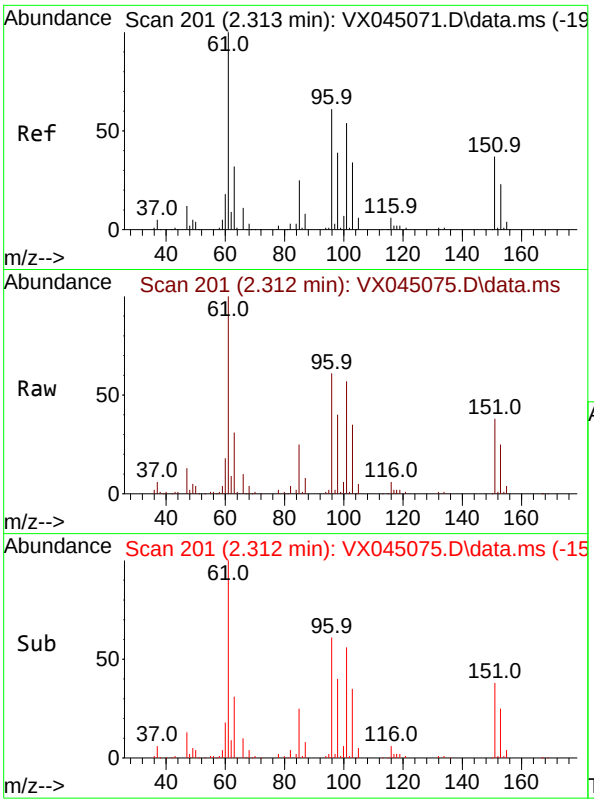


#8
Diethyl Ether
Concen: 48.651 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 74 Resp: 39113

Ion	Ratio	Lower	Upper
74	100		
45	107.2	51.5	154.5



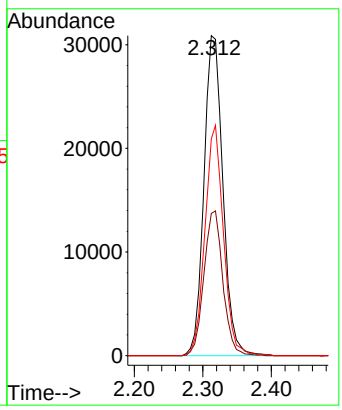


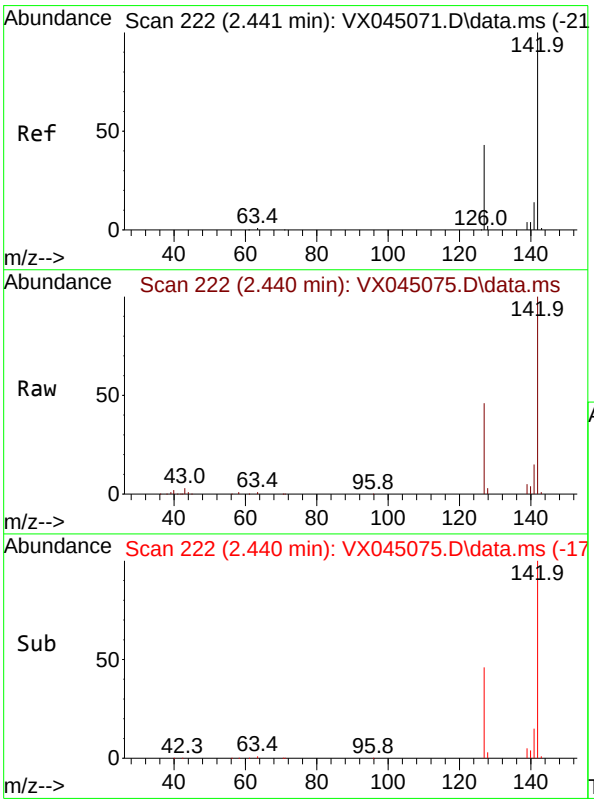
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.367 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:101 Resp: 59477

Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.2	54.4
151	70.2	56.4	84.6

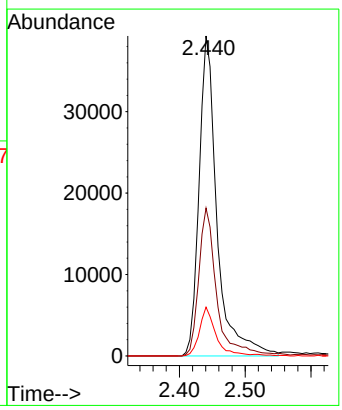


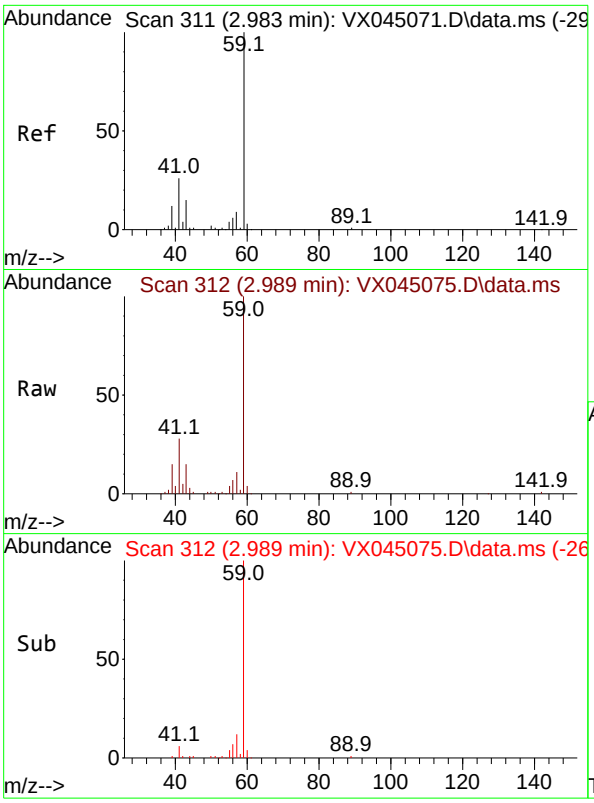


#10
Methyl Iodide
Concen: 50.541 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:142 Resp: 74585

Ion	Ratio	Lower	Upper
142	100		
127	46.3	35.4	53.2
141	14.3	11.6	17.4



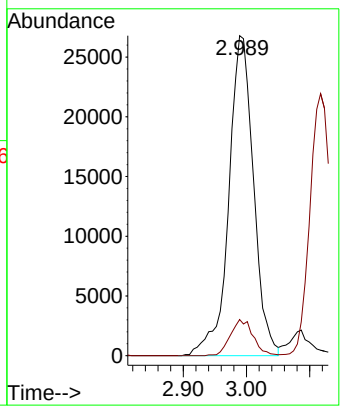


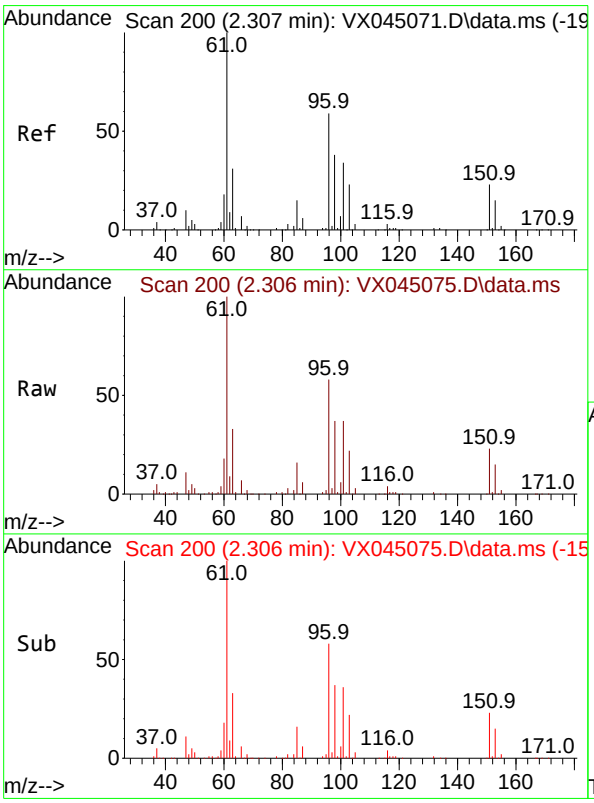
#11
Tert butyl alcohol
Concen: 238.577 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 59 Resp: 73034

Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8

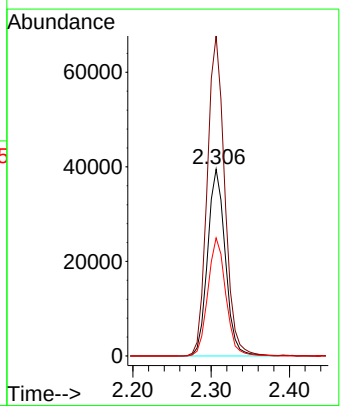


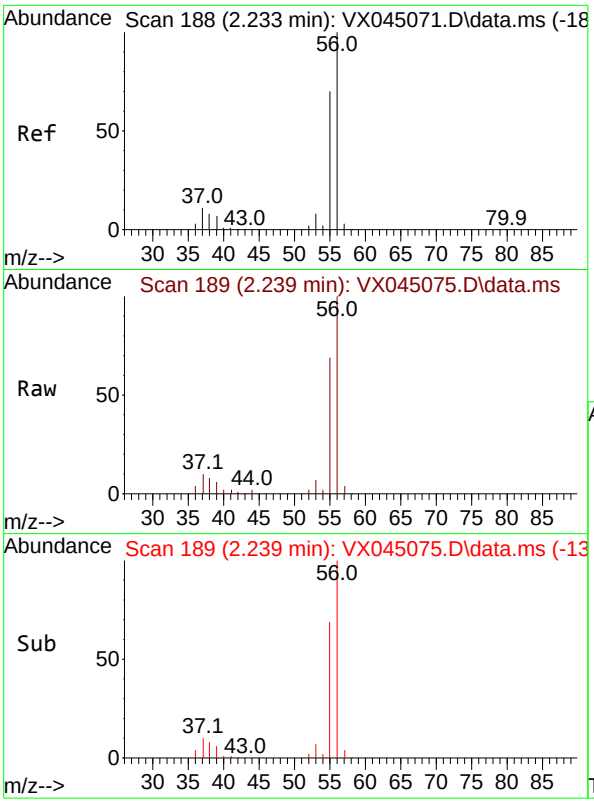


#12
1,1-Dichloroethene
Concen: 49.568 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 96 Resp: 61885

Ion	Ratio	Lower	Upper
96	100		
61	171.3	134.6	202.0
98	63.2	51.0	76.6



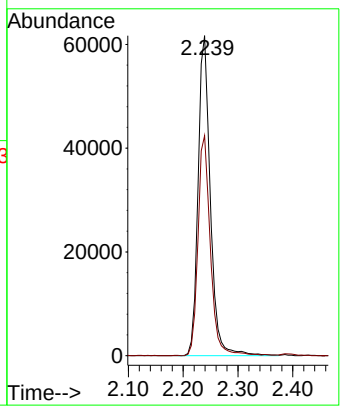


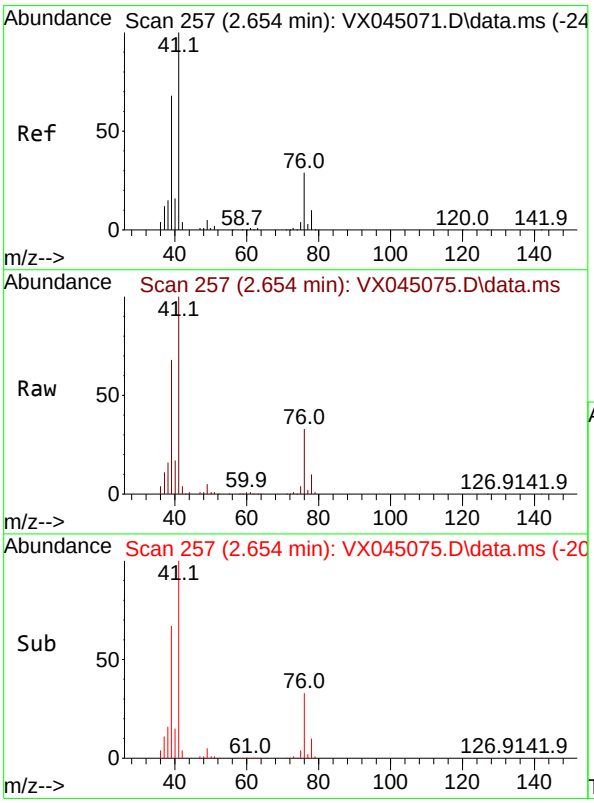
#13
Acrolein
Concen: 271.255 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 56 Resp: 95989

Ion	Ratio	Lower	Upper
56	100		
55	69.5	56.2	84.4

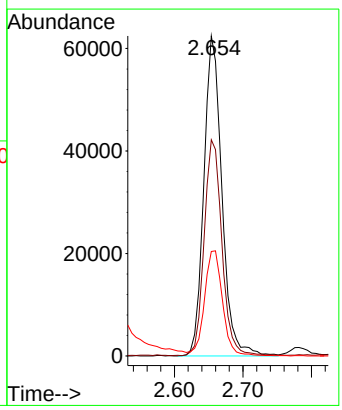


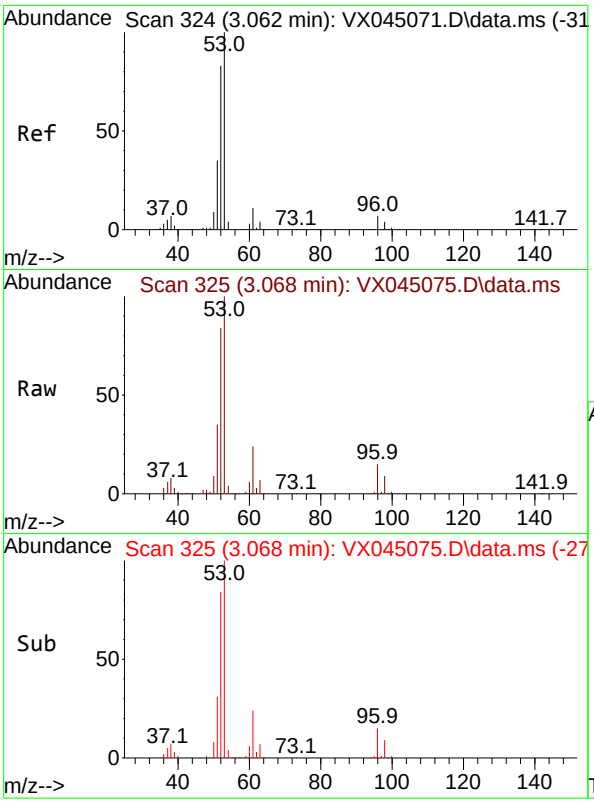


#14
Allyl chloride
Concen: 51.691 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 114875

Ion	Ratio	Lower	Upper
41	100		
39	66.3	53.8	80.8
76	33.0	25.2	37.8



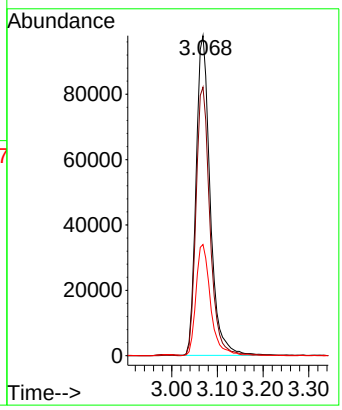


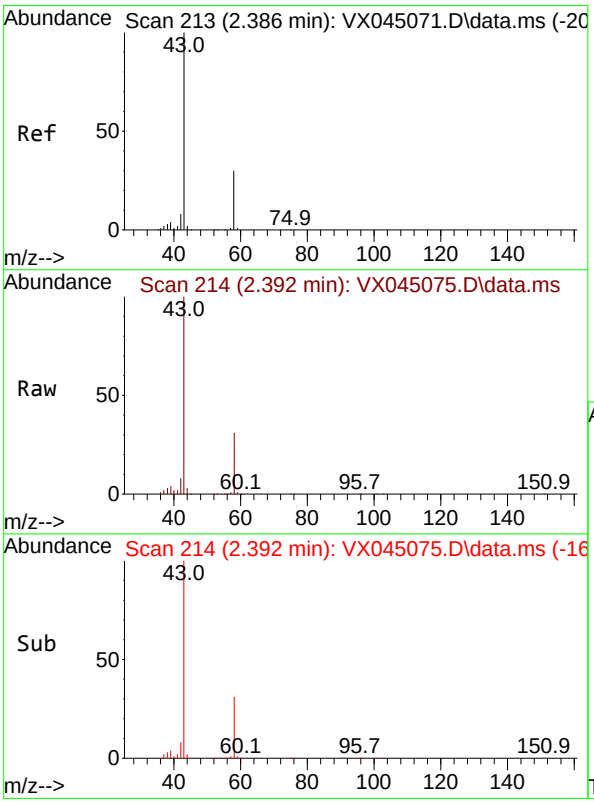
#15
Acrylonitrile
Concen: 255.479 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 53 Resp: 209607

Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.2	99.2
51	35.8	29.0	43.4

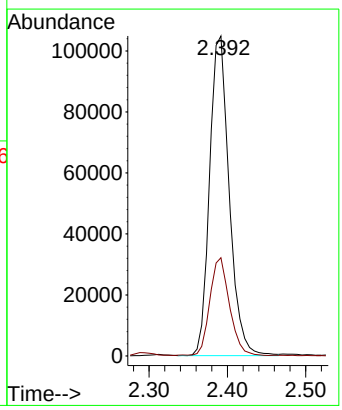


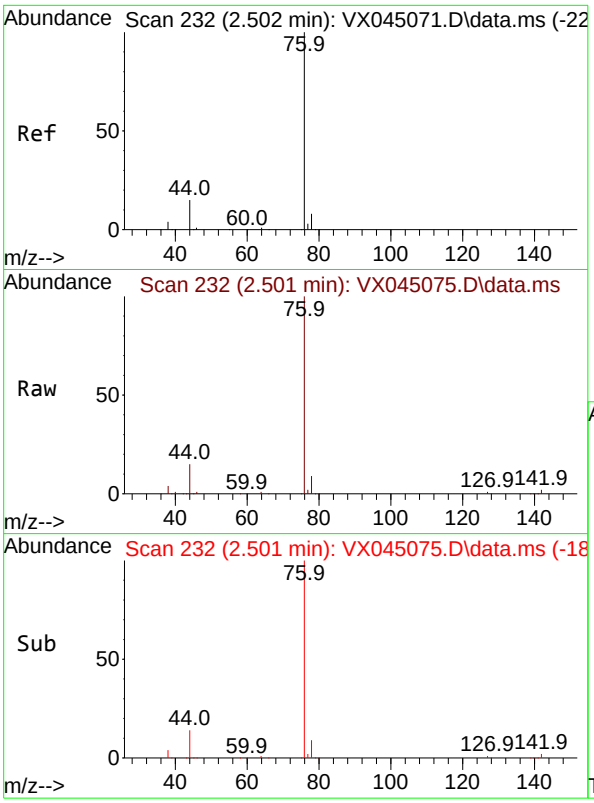


#16
Acetone
Concen: 242.877 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 182119

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.2	36.4



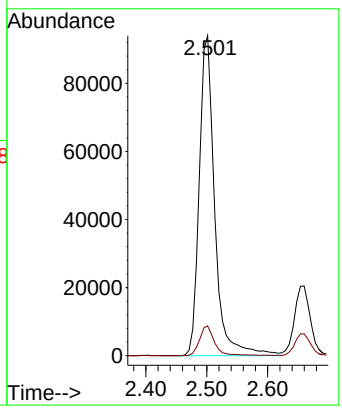


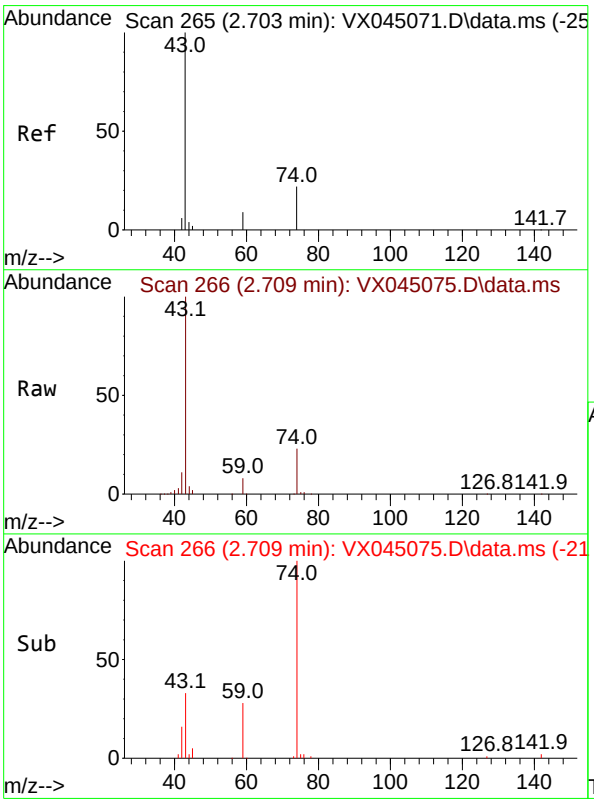
#17
Carbon Disulfide
Concen: 49.952 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 76 Resp: 166105

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.6	9.8

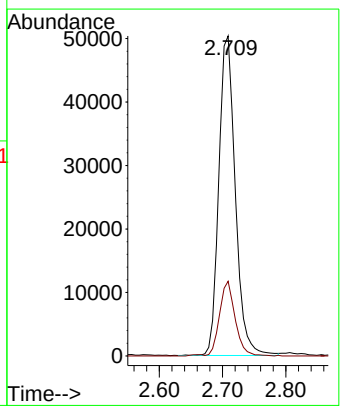


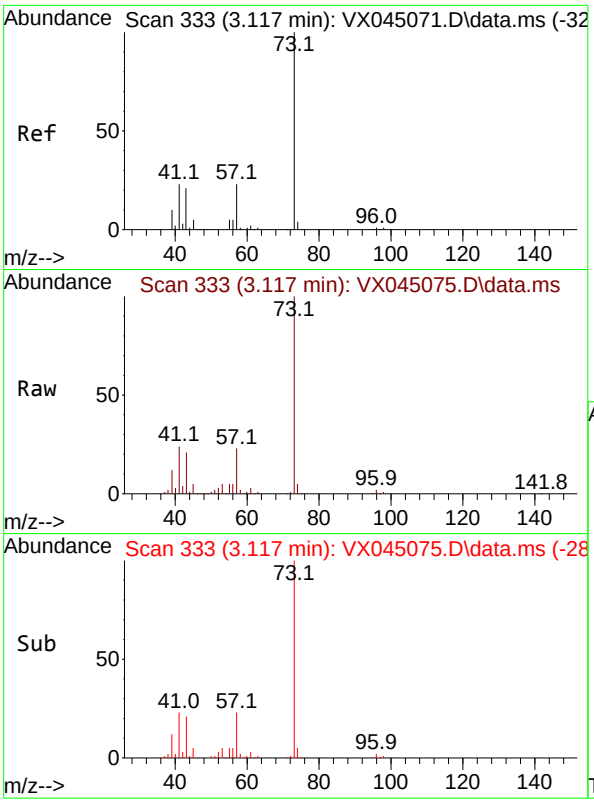


#18
Methyl Acetate
Concen: 50.312 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 90756

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2



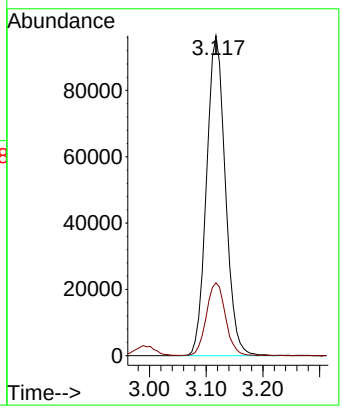


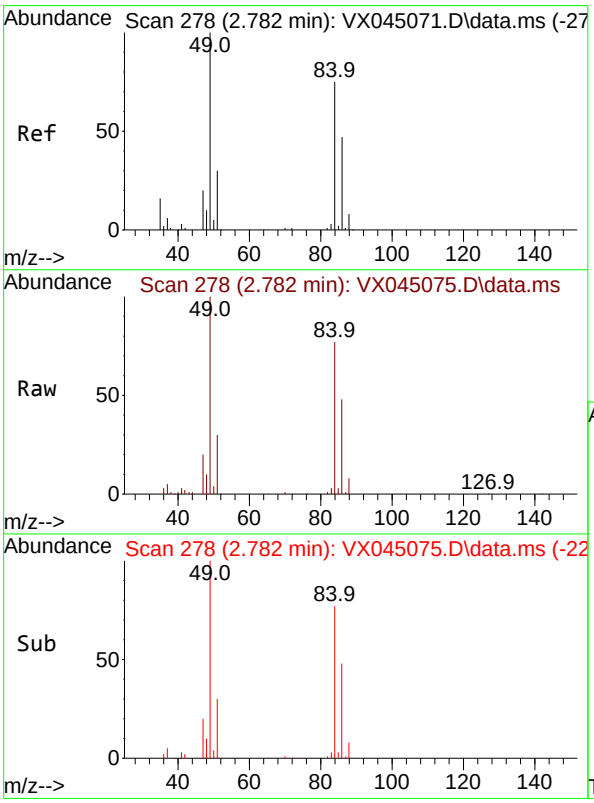
#19
Methyl tert-butyl Ether
Concen: 53.114 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 73 Resp: 222475

Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.5	27.7

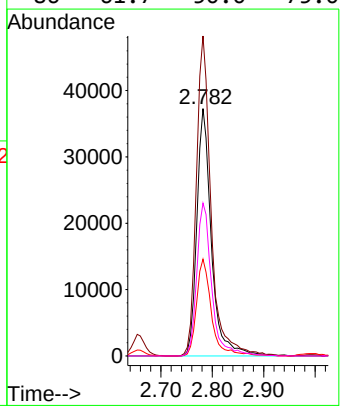


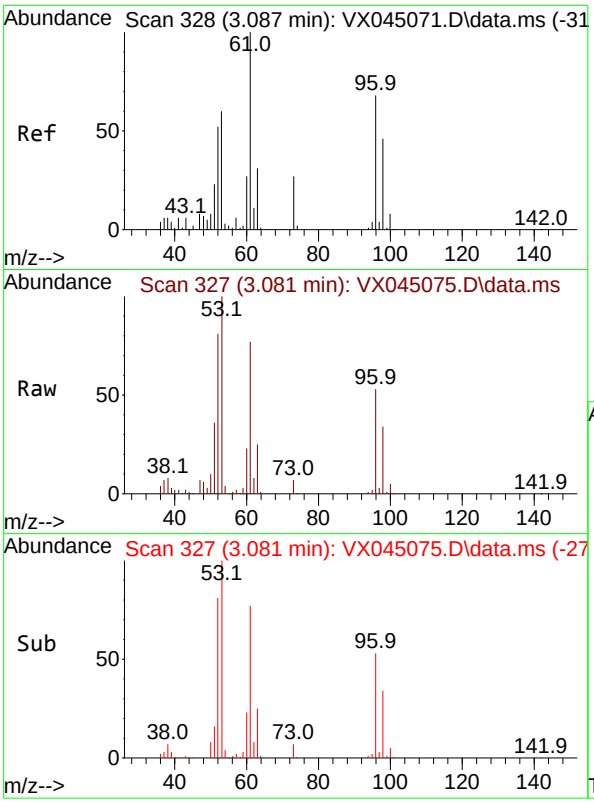


#20
Methylene Chloride
Concen: 49.639 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 84 Resp: 73731

Ion	Ratio	Lower	Upper
84	100		
49	129.3	106.5	159.7
51	39.1	32.1	48.1
86	61.7	50.0	75.0



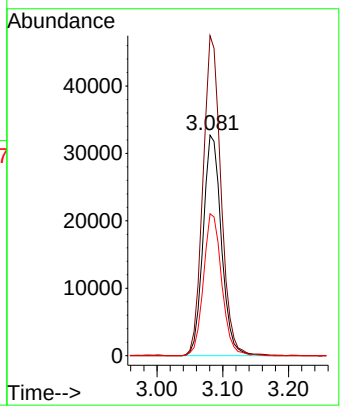


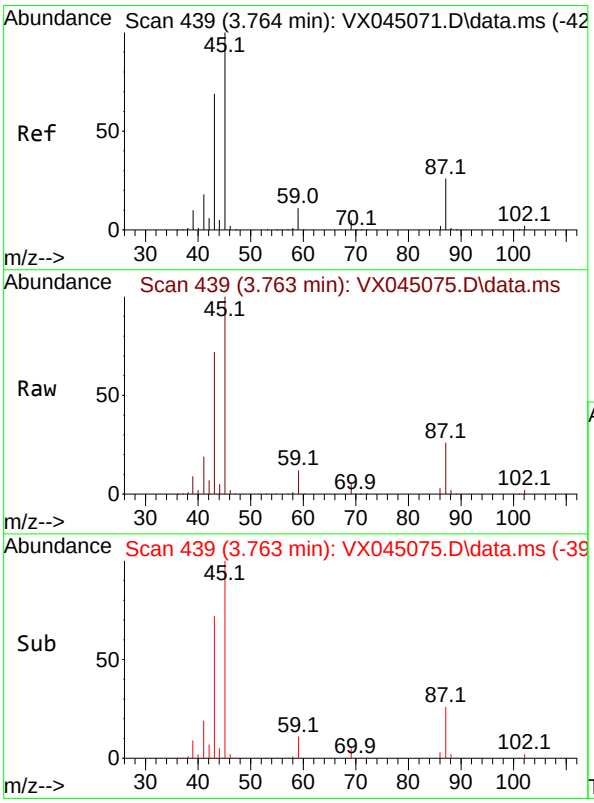
#21
trans-1,2-Dichloroethene
Concen: 51.172 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 96 Resp: 63117

Ion	Ratio	Lower	Upper
96	100		
61	145.2	117.0	175.4
98	64.4	53.4	80.2

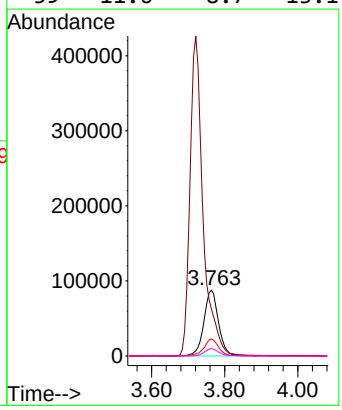


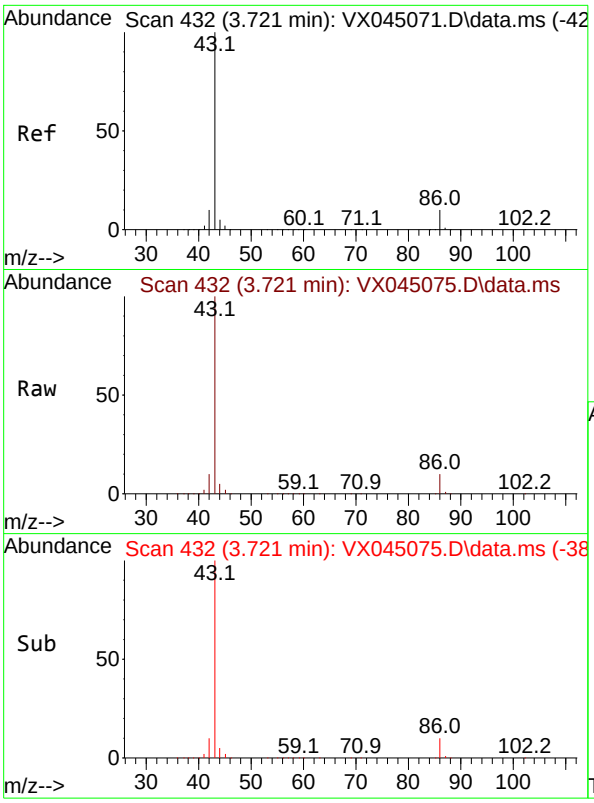


#22
Diisopropyl ether
Concen: 53.955 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 45 Resp: 243860

Ion	Ratio	Lower	Upper
45	100		
43	71.9	54.9	82.3
87	25.8	21.0	31.4
59	11.6	8.7	13.1



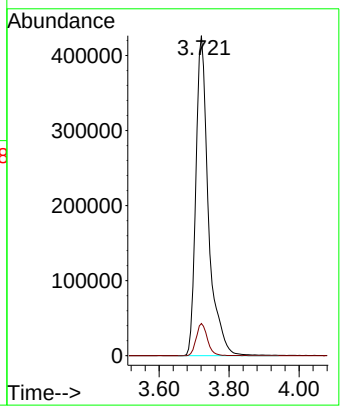


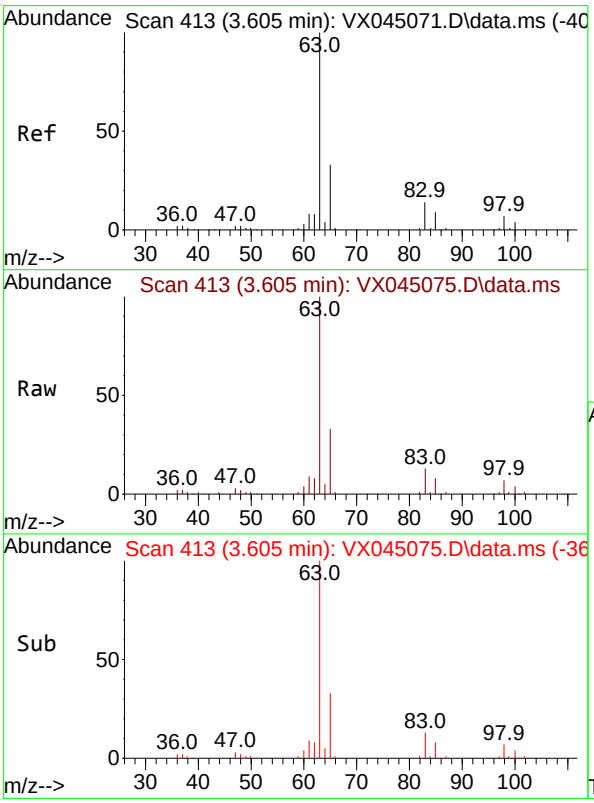
#23
Vinyl Acetate
Concen: 282.313 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 43 Resp: 1064817

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

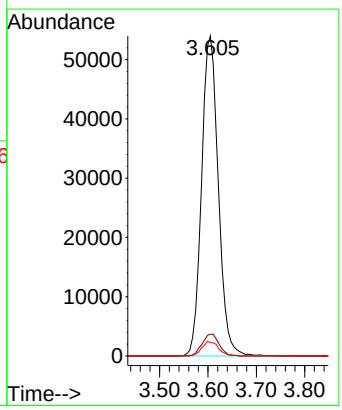


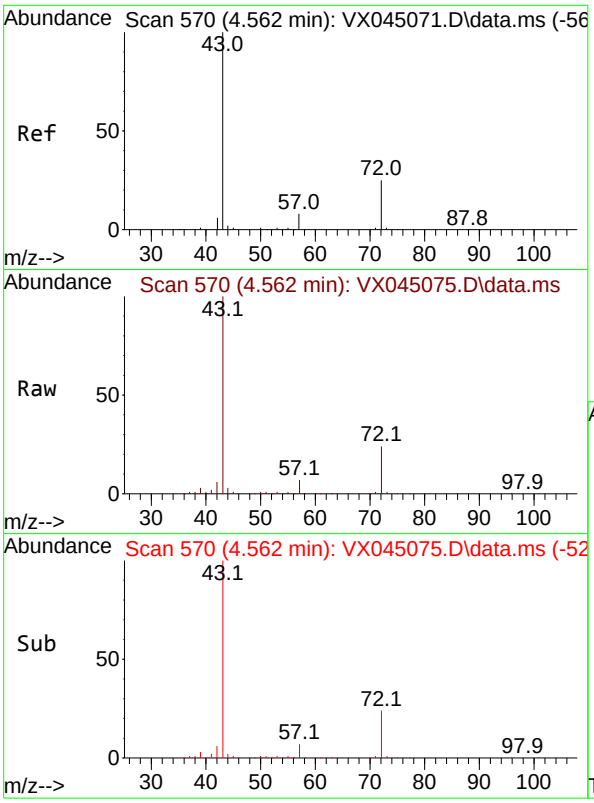


#24
1,1-Dichloroethane
Concen: 51.190 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 129666

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.1	2.1	6.5



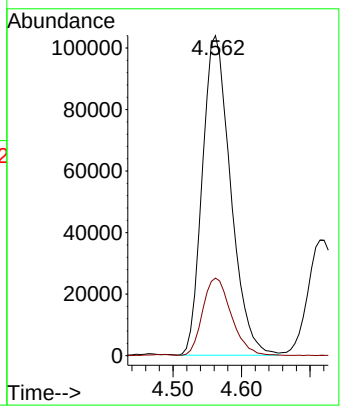


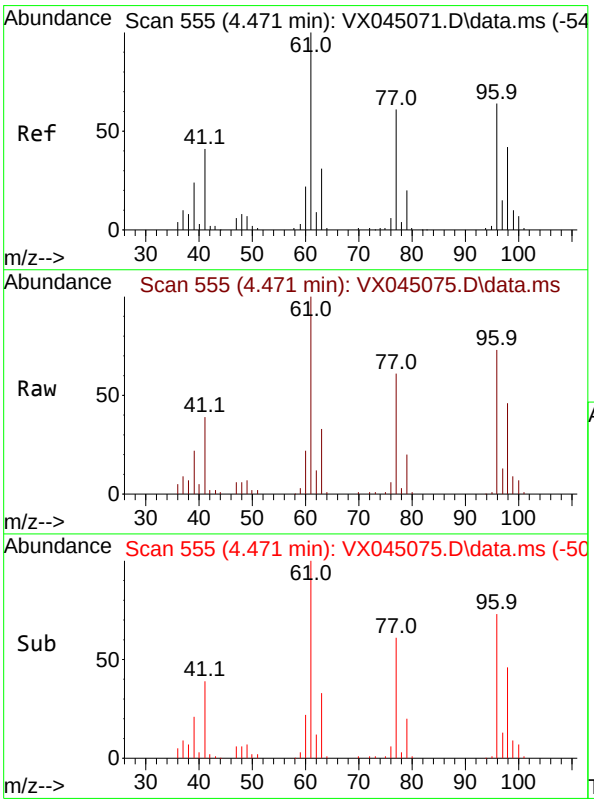
#25
2-Butanone
Concen: 264.040 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 43 Resp: 298021

Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.0	30.0

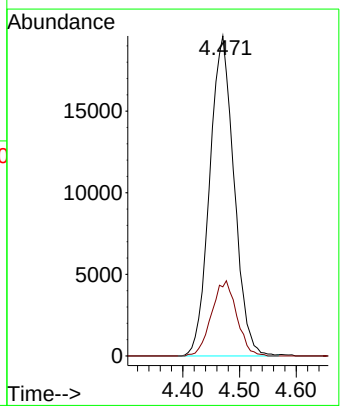


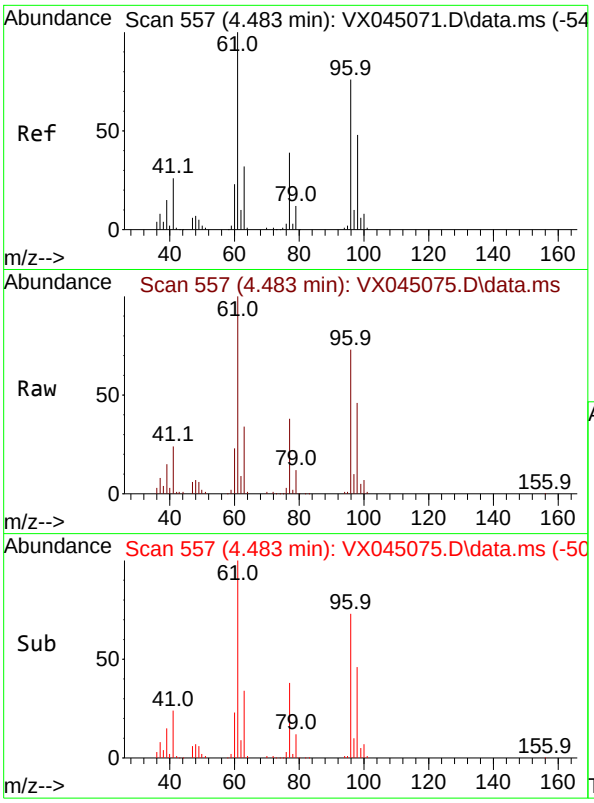


#26
2,2-Dichloropropane
Concen: 49.401 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 77 Resp: 58694

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.4	37.0



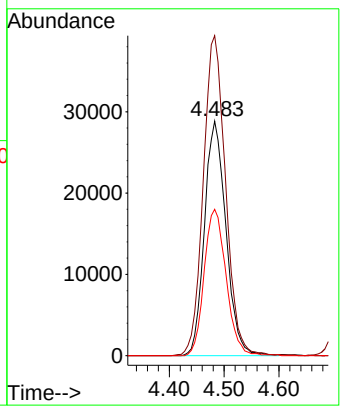


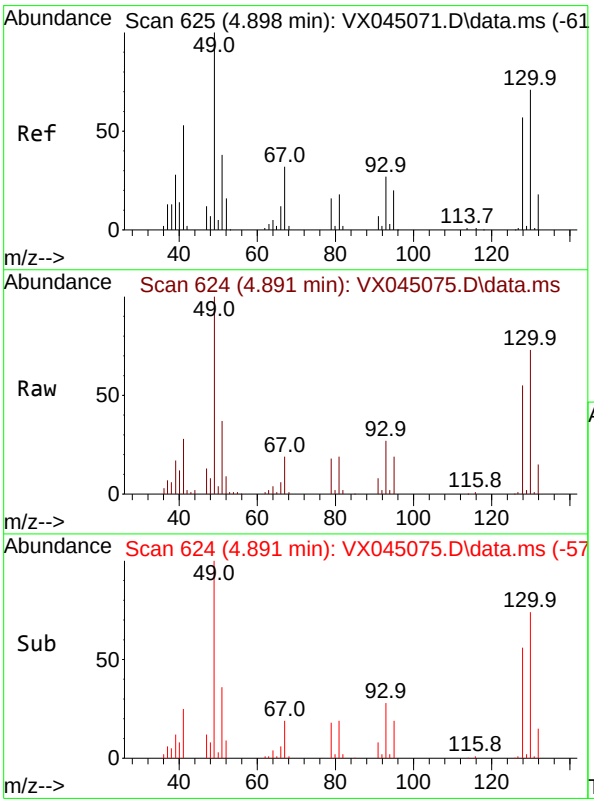
#27
cis-1,2-Dichloroethene
Concen: 51.606 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 96 Resp: 78576

Ion	Ratio	Lower	Upper
96	100		
61	141.2	0.0	283.2
98	63.8	0.0	128.0

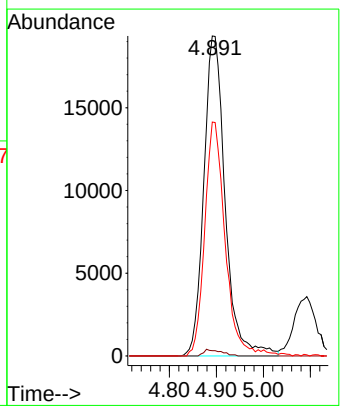


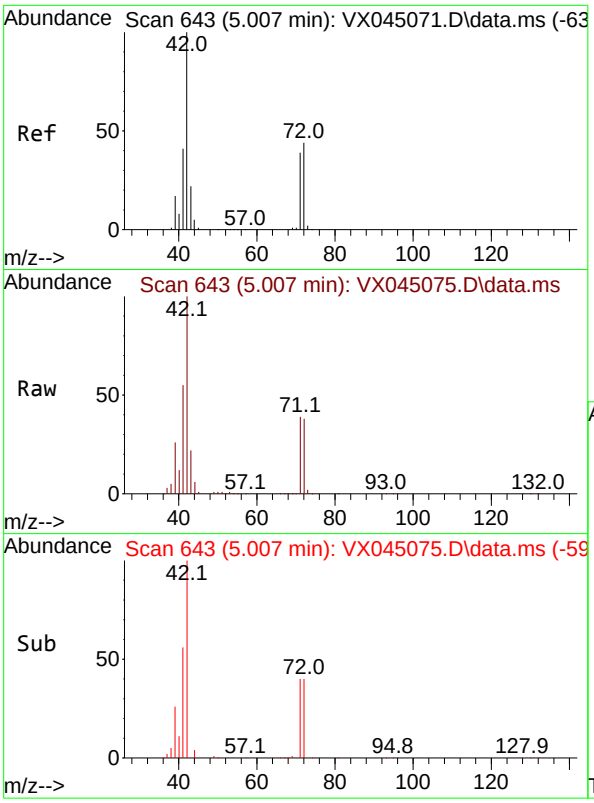


#28
Bromochloromethane
Concen: 50.399 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 49 Resp: 60849

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.0	56.1	84.1



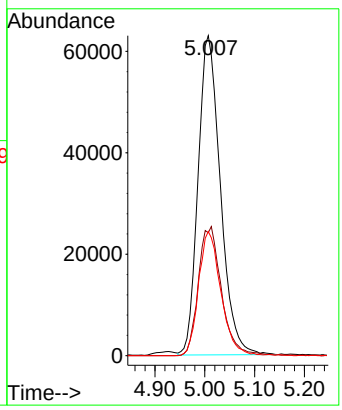


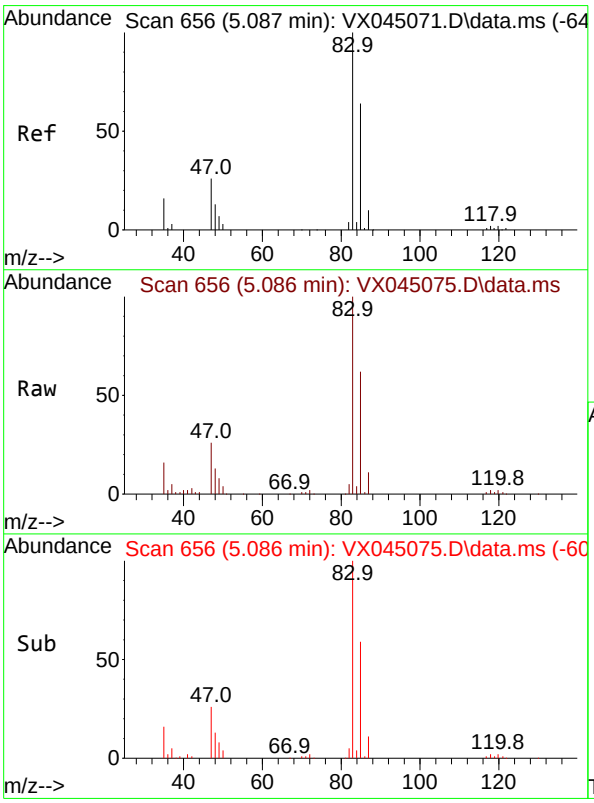
#29
Tetrahydrofuran
Concen: 258.277 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 42 Resp: 195768

Ion	Ratio	Lower	Upper
42	100		
72	42.0	34.1	51.1
71	38.9	31.4	47.0

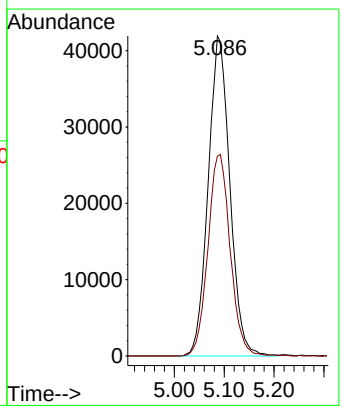


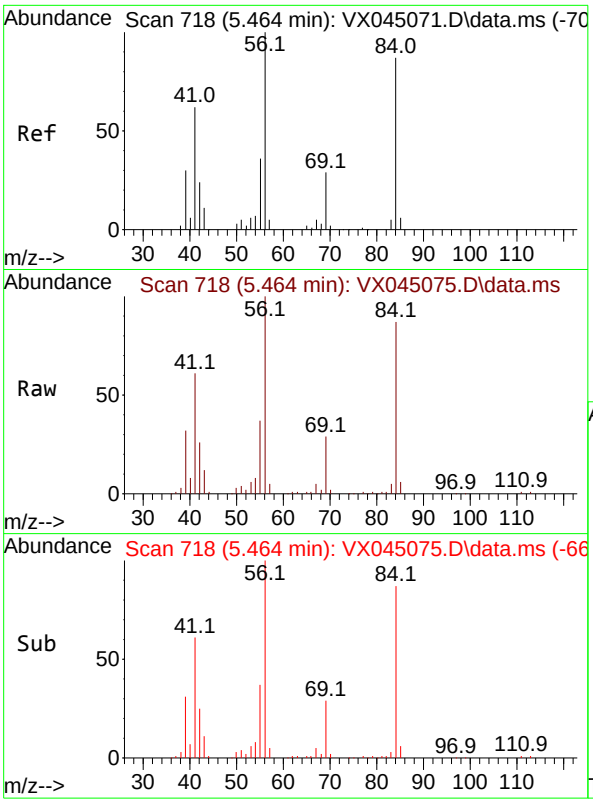


#30
Chloroform
Concen: 50.236 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 126437

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.4	77.2



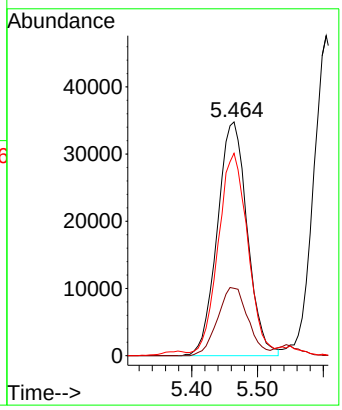


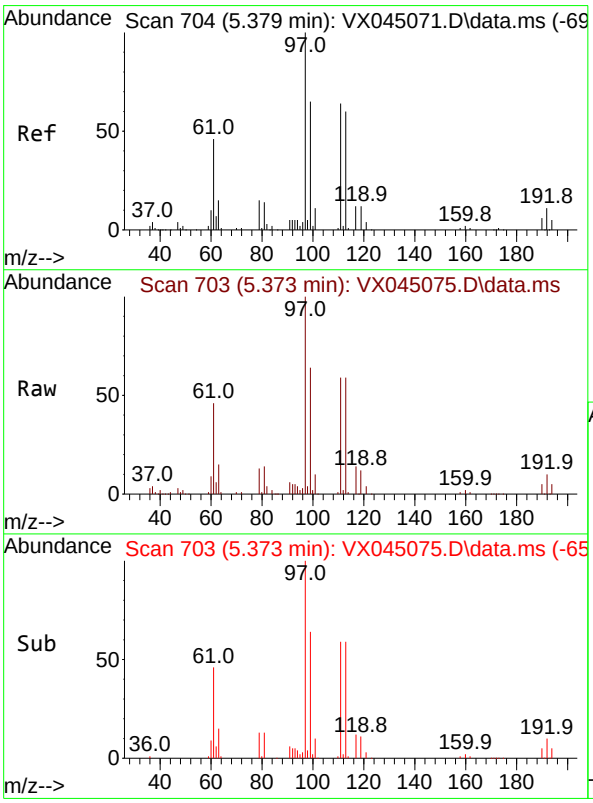
#31
Cyclohexane
Concen: 50.158 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 56 Resp: 110288

Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	84.6	69.4	104.2

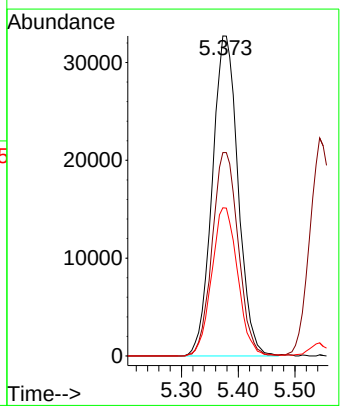


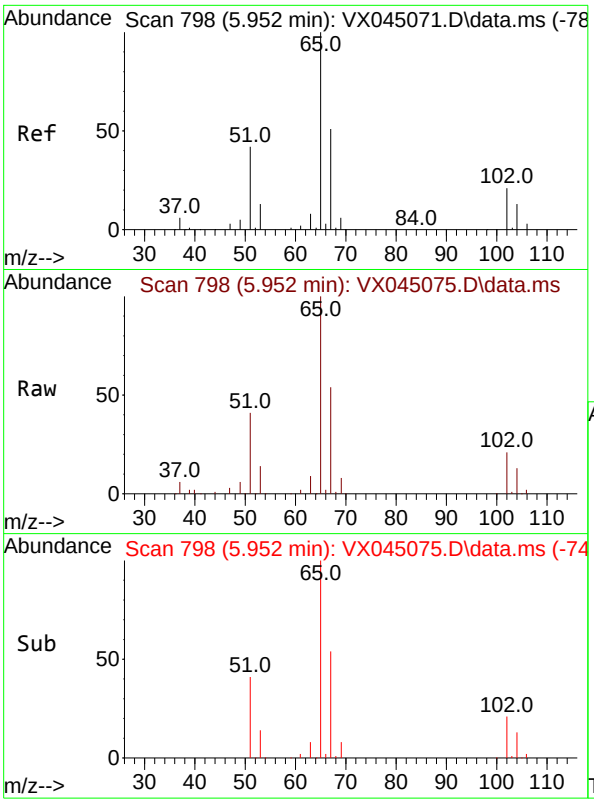


#32
1,1,1-Trichloroethane
Concen: 50.939 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 97 Resp: 103546

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.6	77.4
61	46.7	38.4	57.6



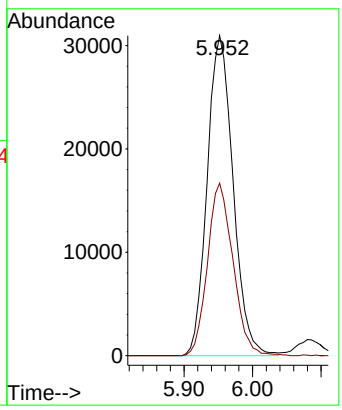


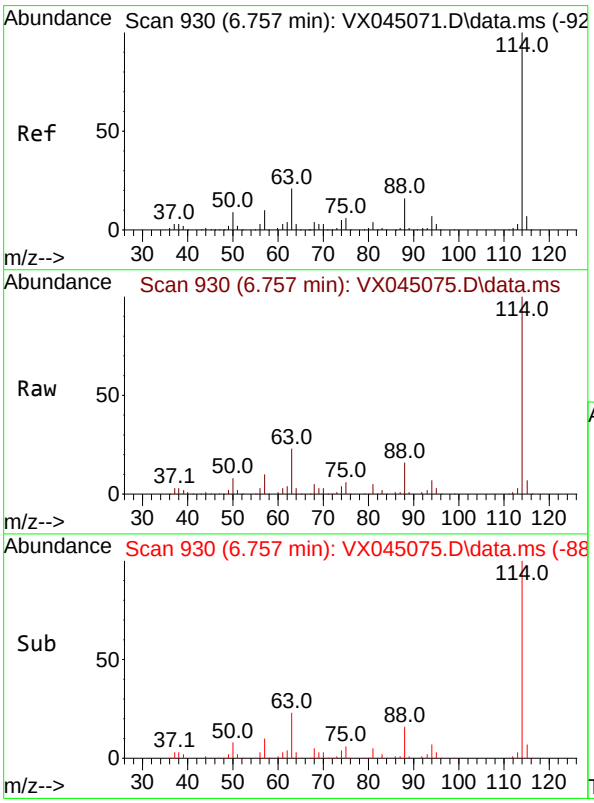
#33
1,2-Dichloroethane-d4
Concen: 50.297 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 65 Resp: 81288

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.2

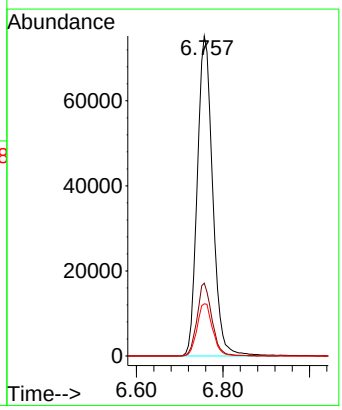


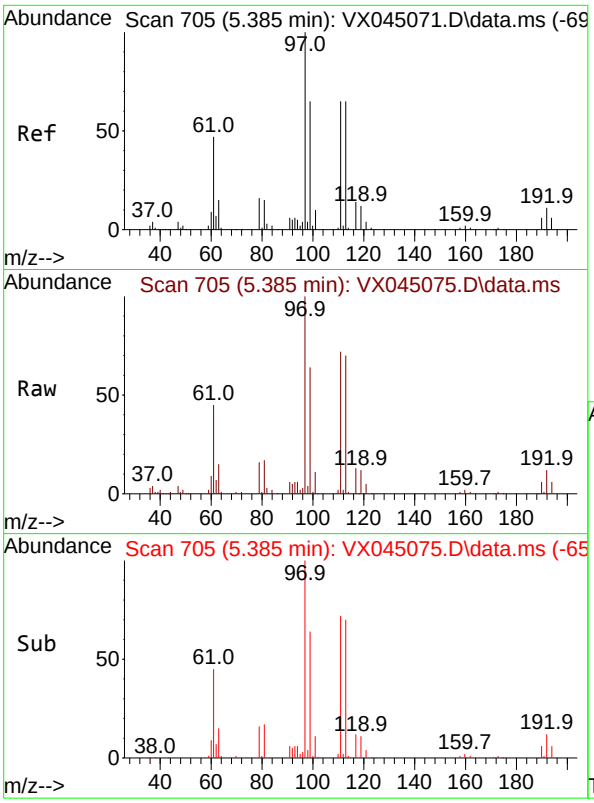


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:114 Resp: 184964

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	41.8
88	16.3	0.0	32.8



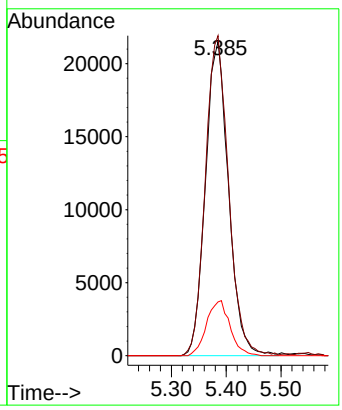


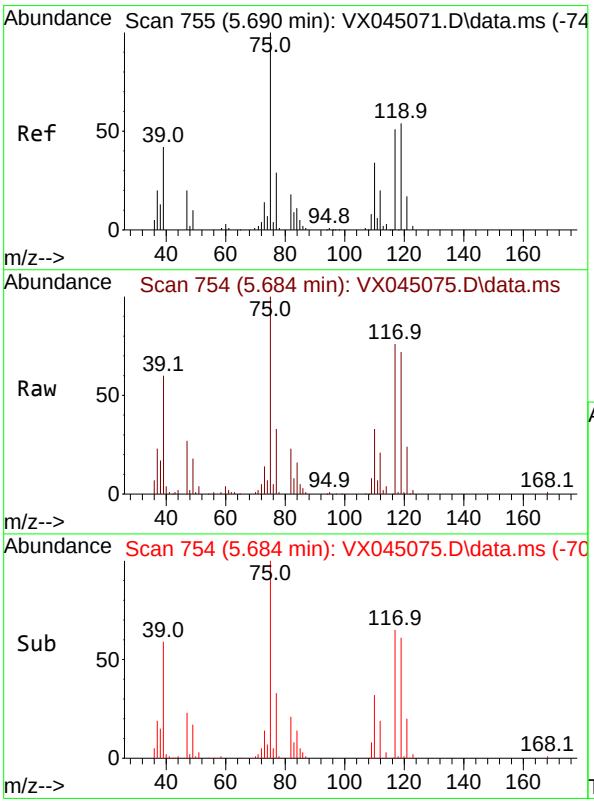
#35
Dibromofluoromethane
Concen: 50.841 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:113 Resp: 62880

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.6
192	17.8	14.3	21.5

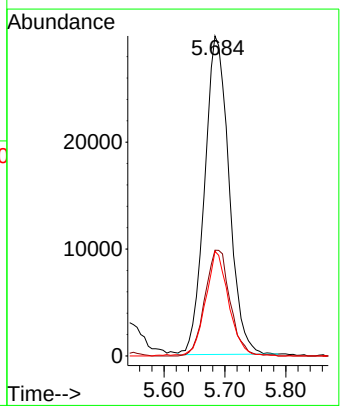


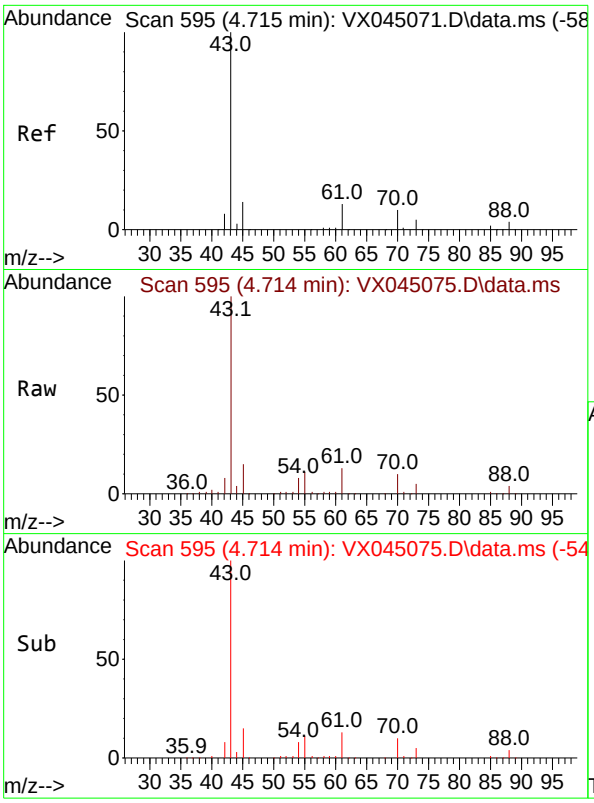


#36
1,1-Dichloropropene
Concen: 48.770 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 82722

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.9	50.6
77	31.2	24.5	36.7



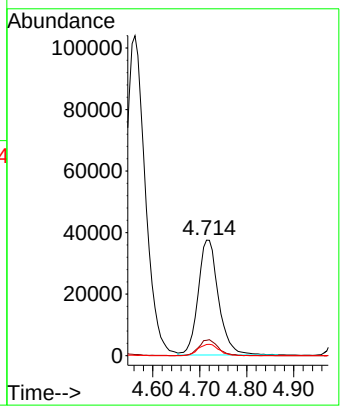


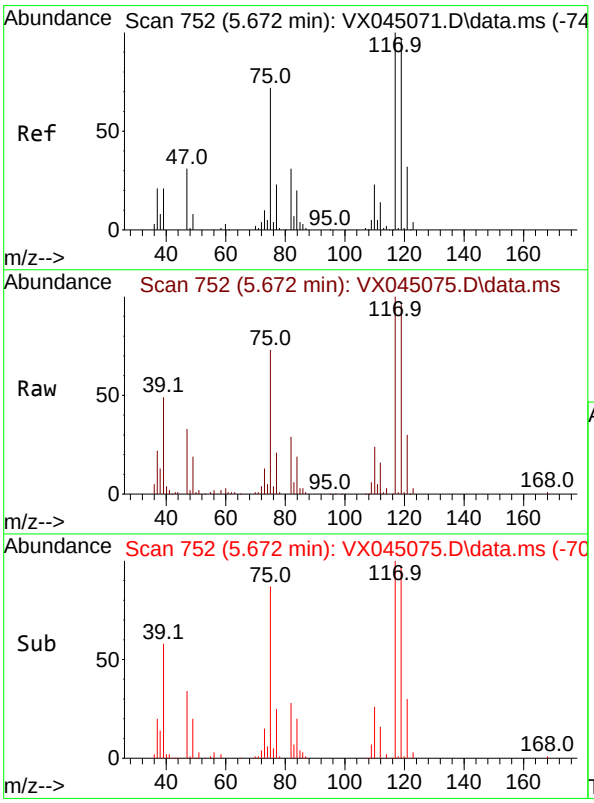
#37
Ethyl Acetate
Concen: 51.596 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 43 Resp: 112768

Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.8	16.2
70	10.1	7.7	11.5

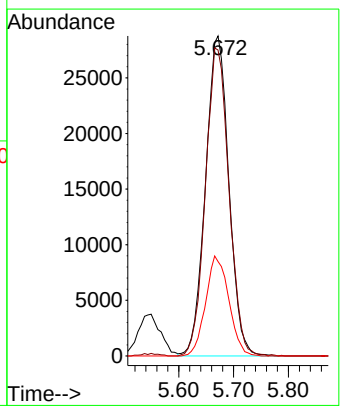


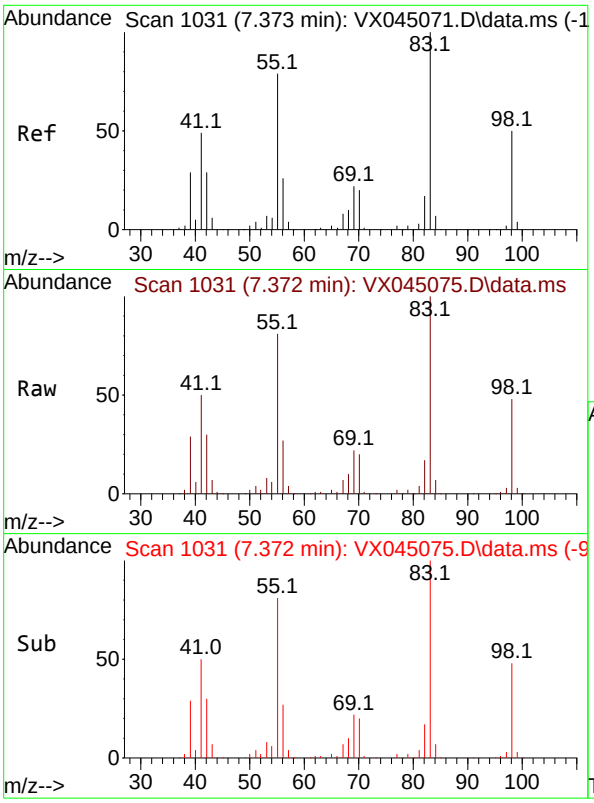


#38
Carbon Tetrachloride
Concen: 49.425 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 85110

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.7	115.1
121	29.5	25.5	38.3



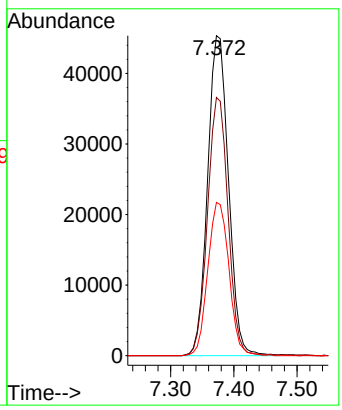


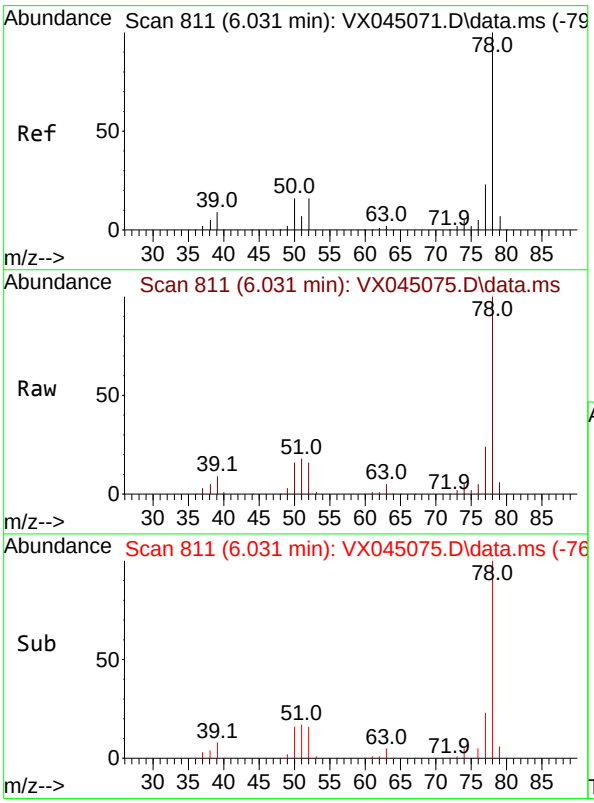
#39
Methylcyclohexane
Concen: 51.169 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 83 Resp: 103996

Ion	Ratio	Lower	Upper
83	100		
55	80.7	63.0	94.4
98	47.9	39.7	59.5

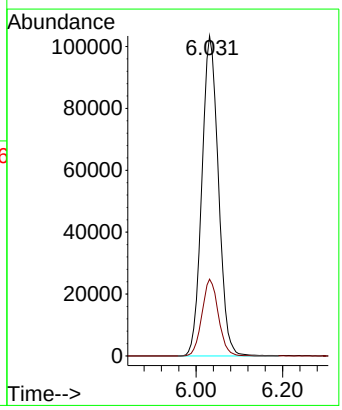


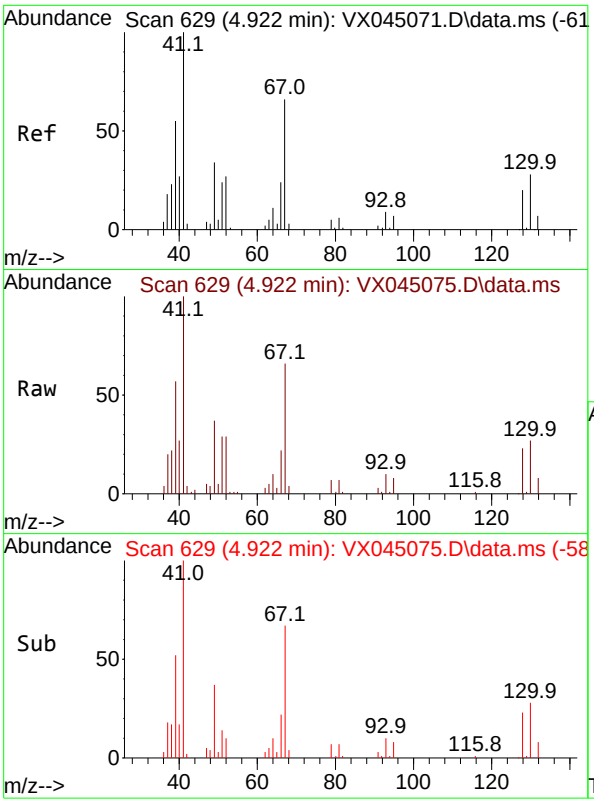


#40
Benzene
Concen: 51.195 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 78 Resp: 274206

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2



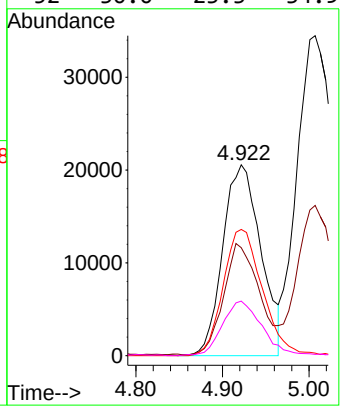


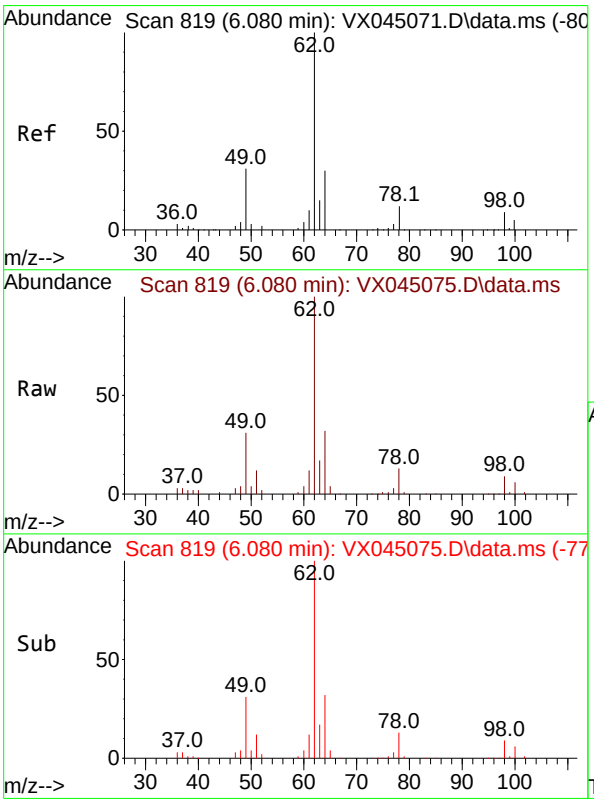
#41
Methacrylonitrile
Concen: 53.352 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 41 Resp: 63051

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.6	67.0
67	68.1	53.9	80.9
52	30.0	23.3	34.9

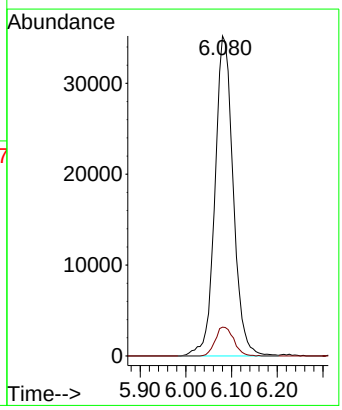


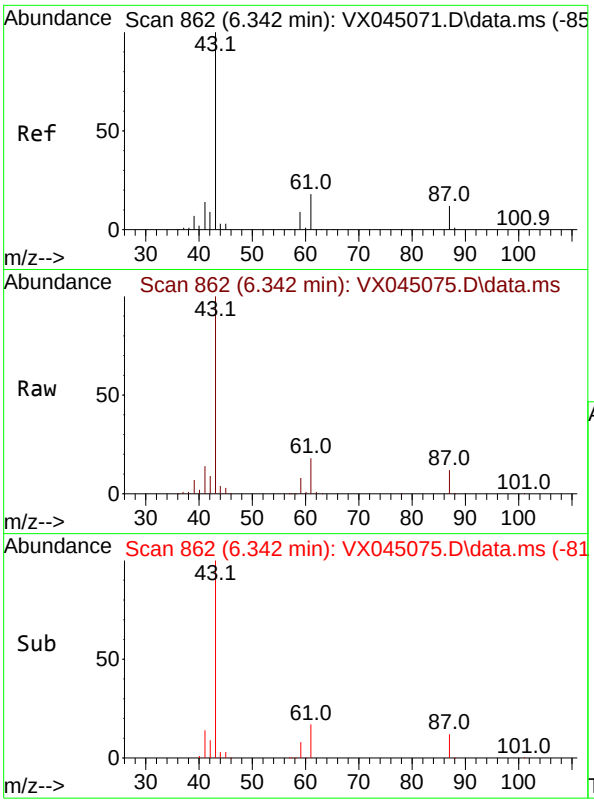


#42
1,2-Dichloroethane
Concen: 50.718 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 62 Resp: 97821

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2



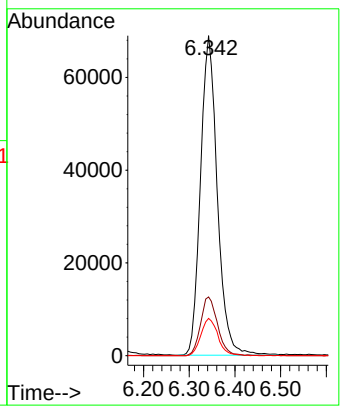


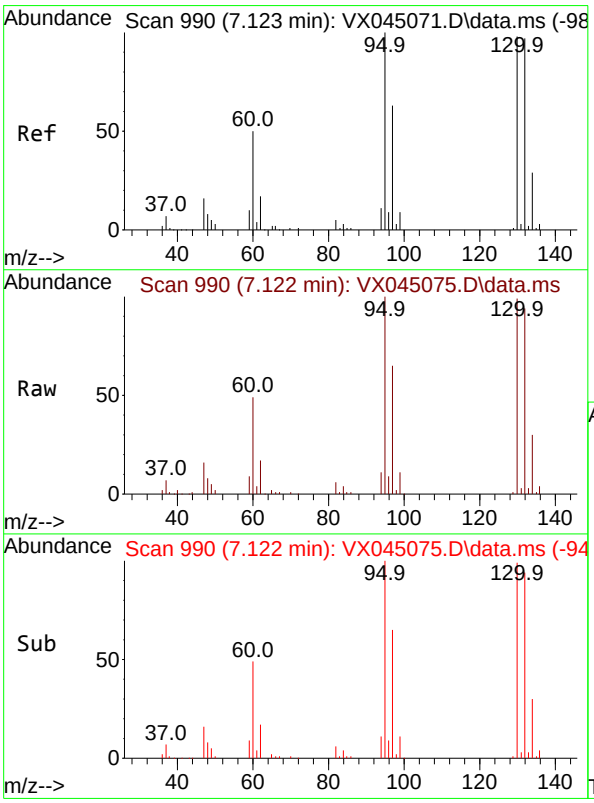
#43
Isopropyl Acetate
Concen: 54.452 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 43 Resp: 175982

Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.9	22.3
87	11.8	9.4	14.2

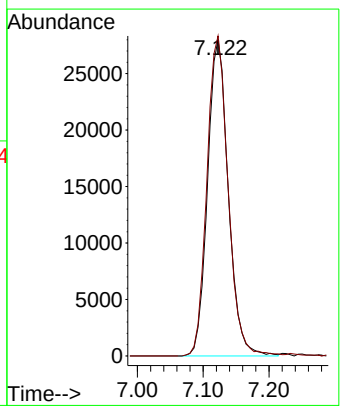


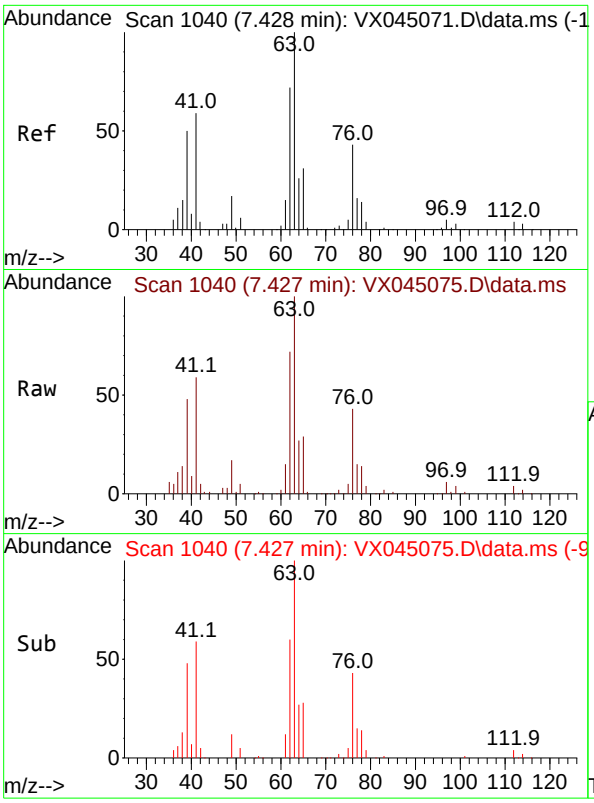


#44
Trichloroethene
Concen: 48.924 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:130 Resp: 61530

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	205.0



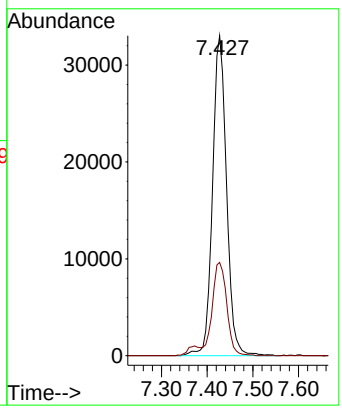


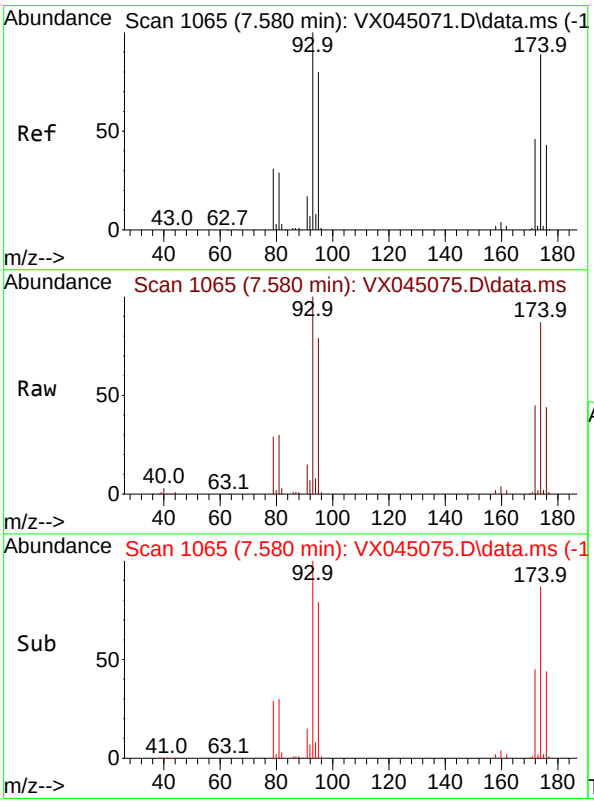
#45
1,2-Dichloropropane
Concen: 51.086 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 63 Resp: 70350

Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.7	37.1

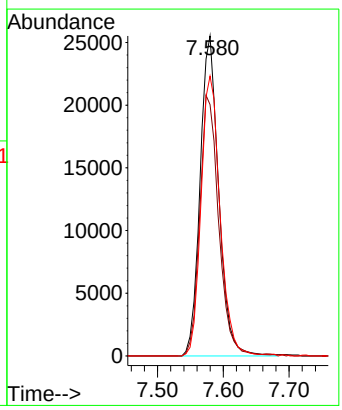


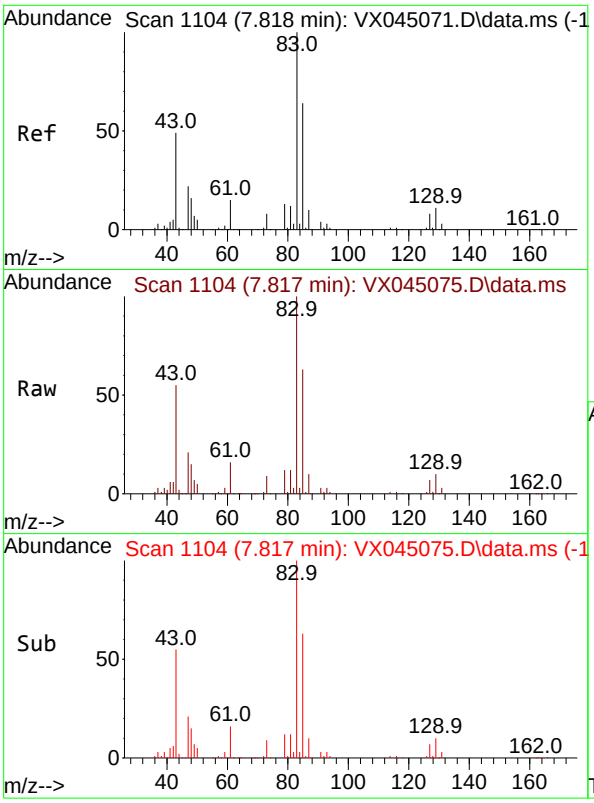


#46
Dibromomethane
Concen: 51.661 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 93 Resp: 50284

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.8	98.8
174	89.4	72.2	108.2



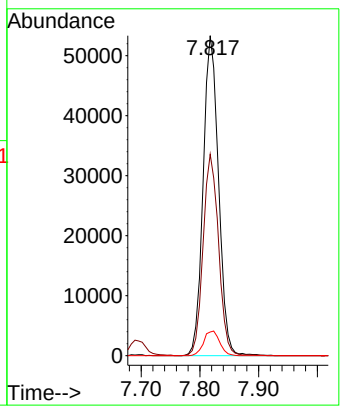


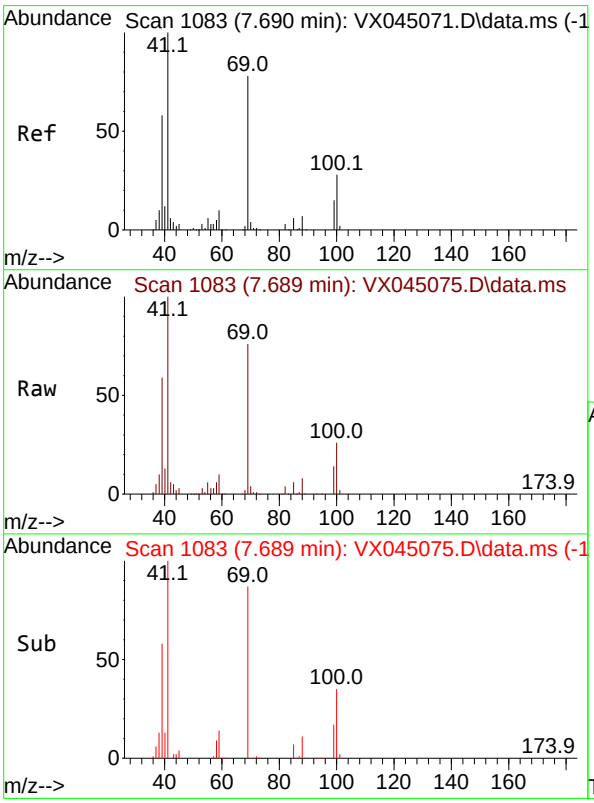
#47
Bromodichloromethane
Concen: 50.930 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 83 Resp: 97236

Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7
127	7.4	6.4	9.6

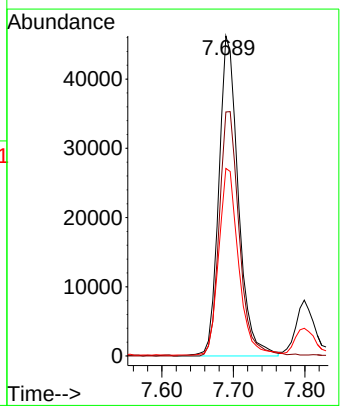


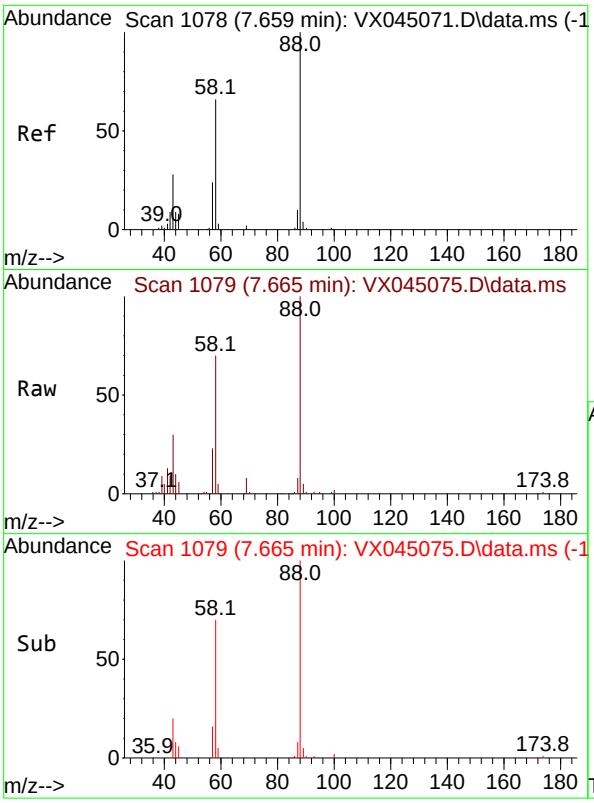


#48
Methyl methacrylate
Concen: 54.016 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 87582

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.0	94.6
39	59.4	47.5	71.3



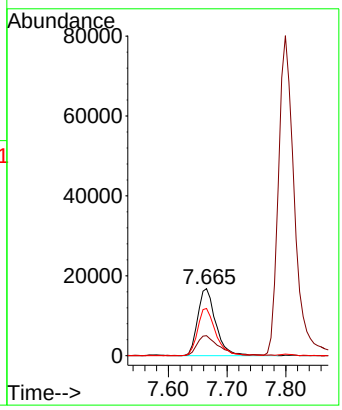


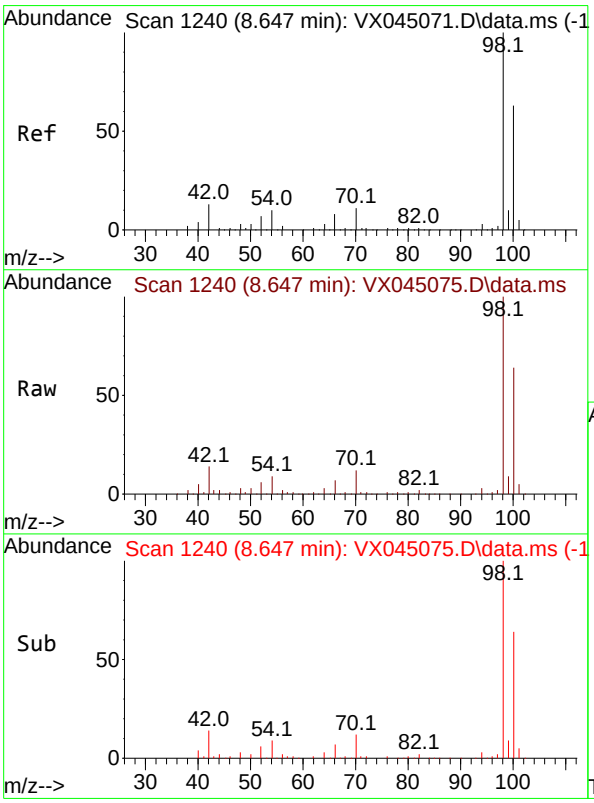
#49
1,4-Dioxane
Concen: 1049.007 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 88 Resp: 35878

Ion	Ratio	Lower	Upper
88	100		
43	34.3	28.7	43.1
58	70.8	55.8	83.8

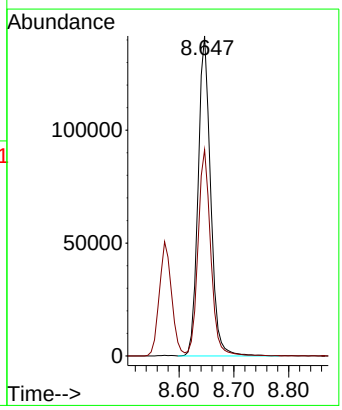


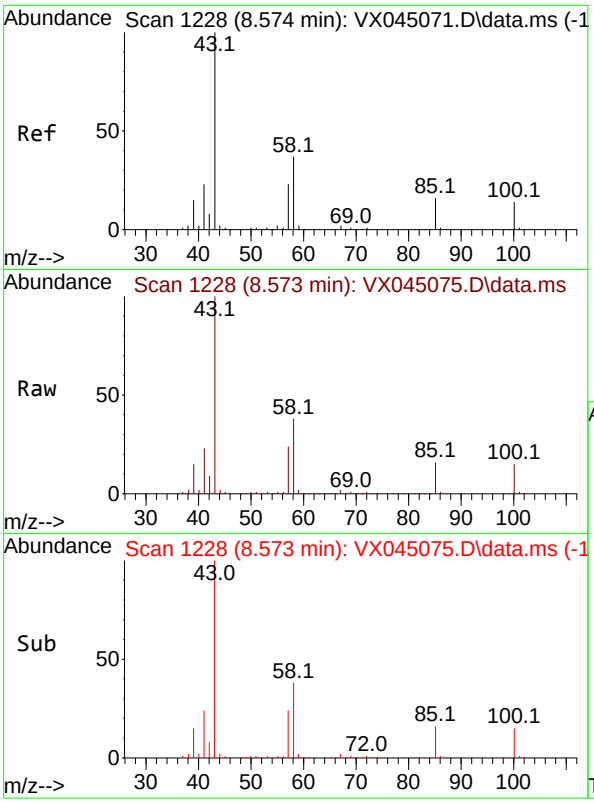


#50
Toluene-d8
Concen: 50.364 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 98 Resp: 225823

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.0	78.0



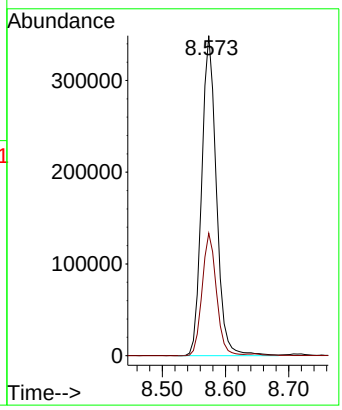


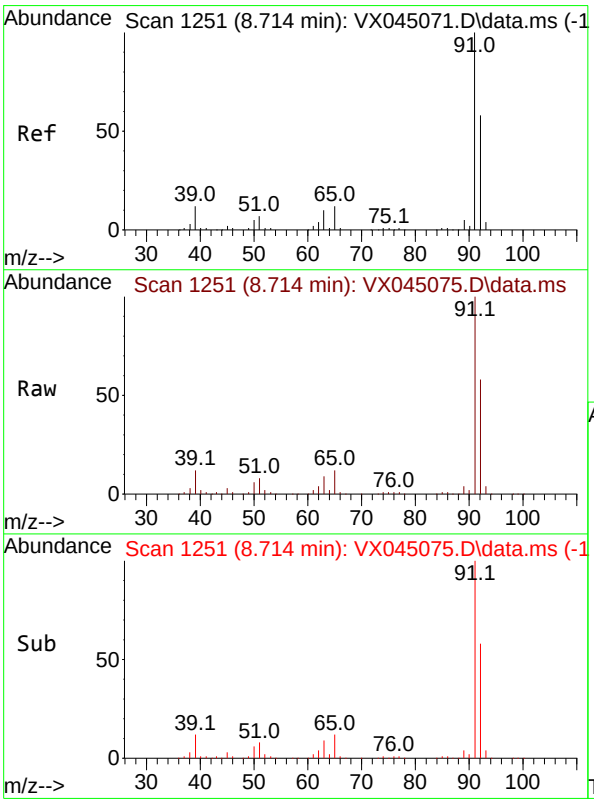
#51
4-Methyl-2-Pentanone
Concen: 259.995 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 43 Resp: 564197

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.2	43.8

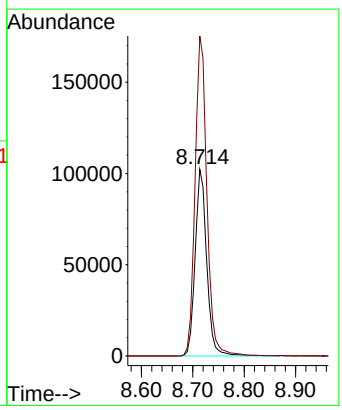


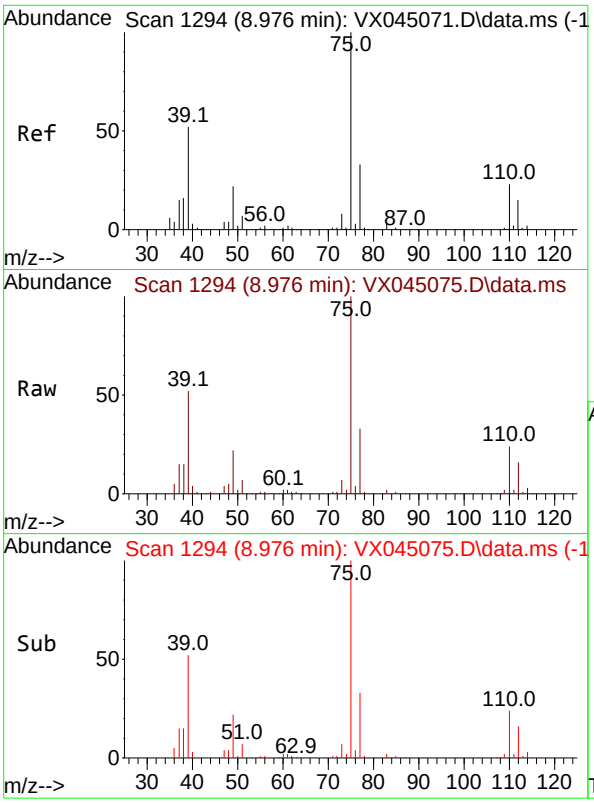


#52
Toluene
Concen: 51.020 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 92 Resp: 160331

Ion	Ratio	Lower	Upper
92	100		
91	175.1	138.9	208.3



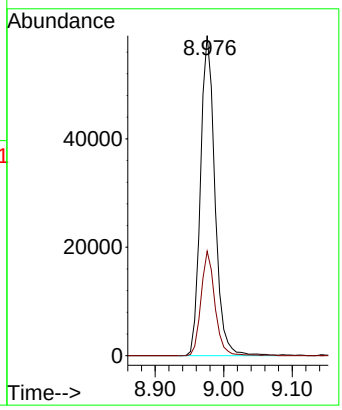


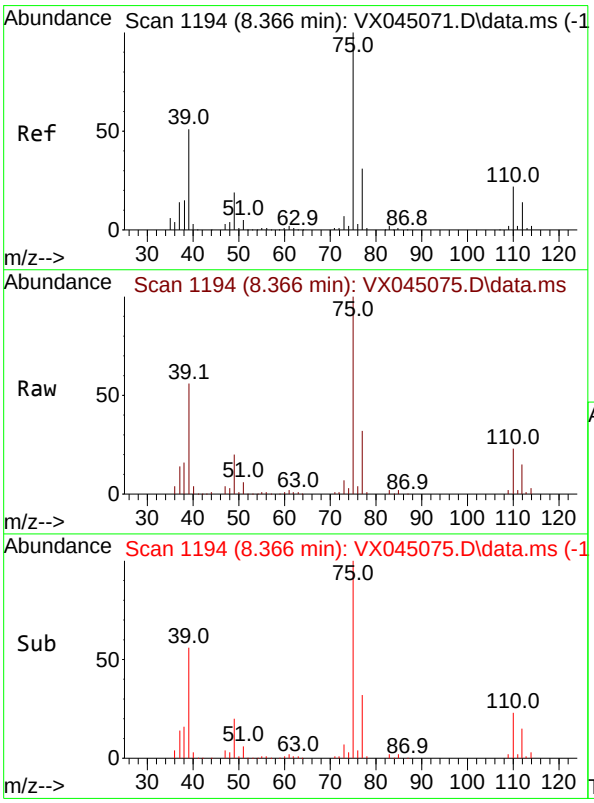
#53
t-1,3-Dichloropropene
Concen: 54.247 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 75 Resp: 86584

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.5	39.7

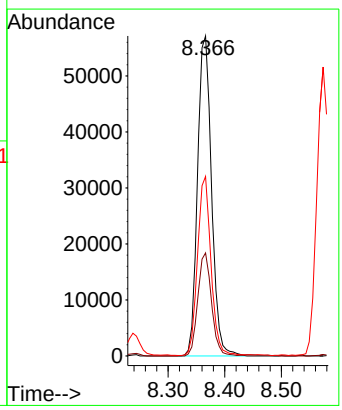


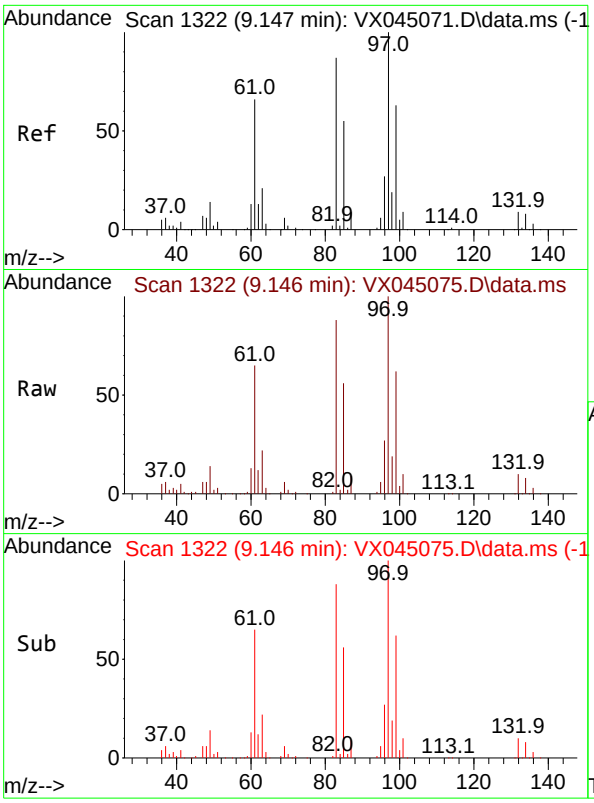


#54
cis-1,3-Dichloropropene
Concen: 52.732 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 98146

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	56.0	40.7	61.1



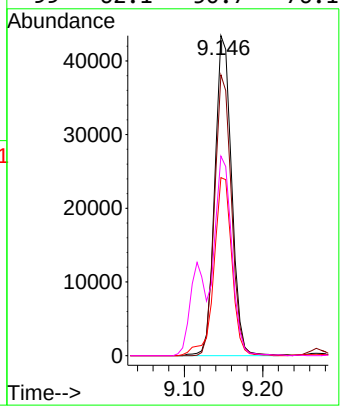


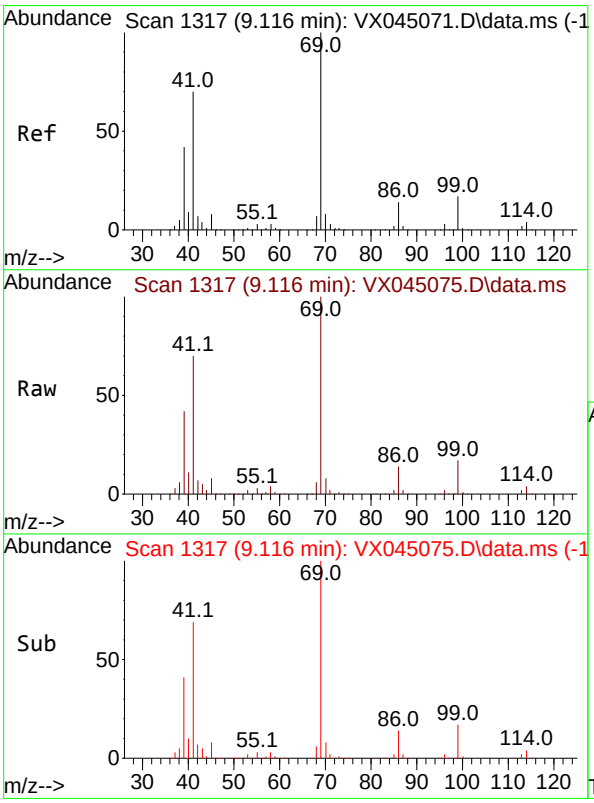
#55
1,1,2-Trichloroethane
Concen: 50.232 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 97 Resp: 64985

Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.4	104.2
85	55.6	44.1	66.1
99	62.1	50.7	76.1

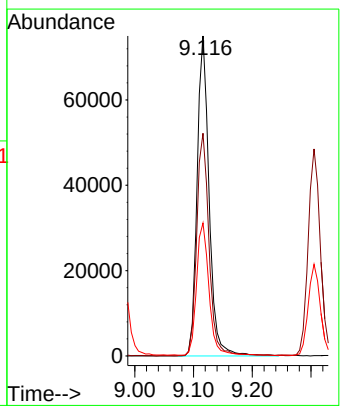


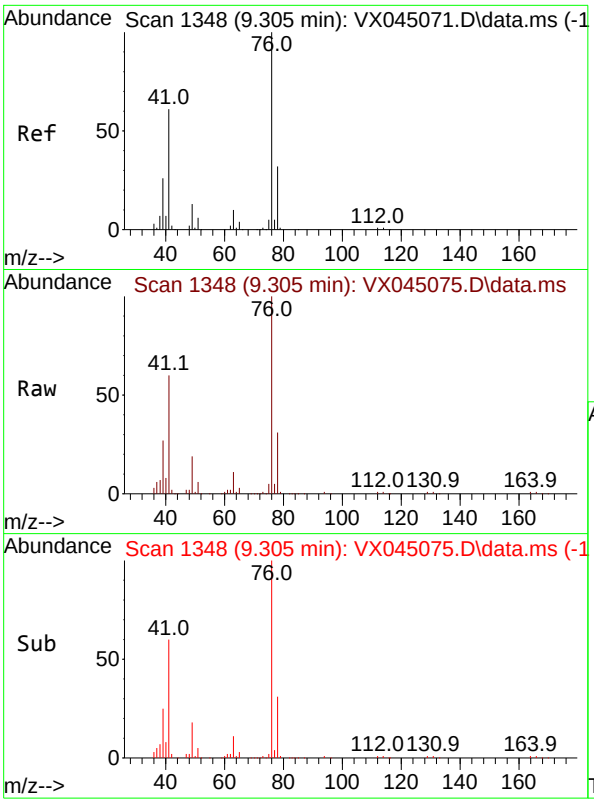


#56
Ethyl methacrylate
Concen: 54.109 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 69 Resp: 106405

Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	43.2	34.2	51.4



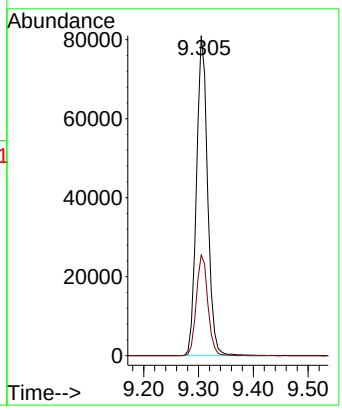


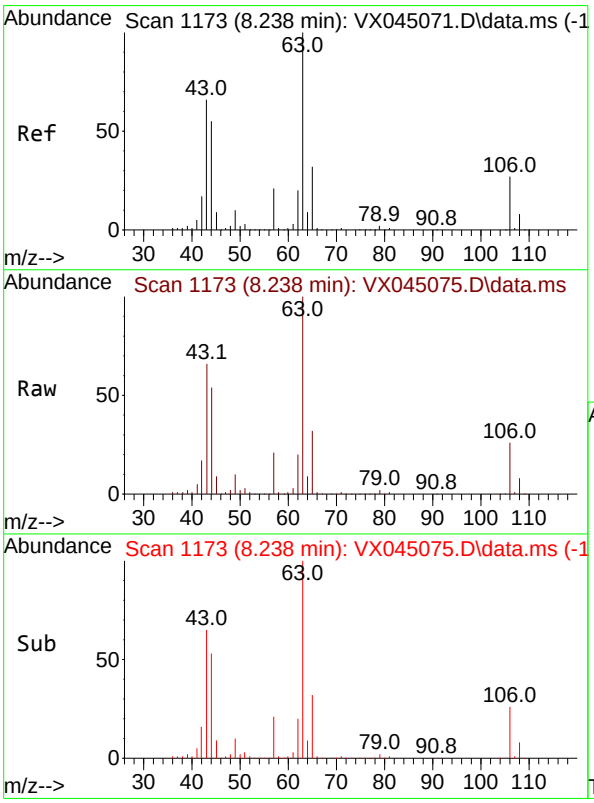
#57
1,3-Dichloropropane
Concen: 51.312 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 76 Resp: 114880

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.5	38.3

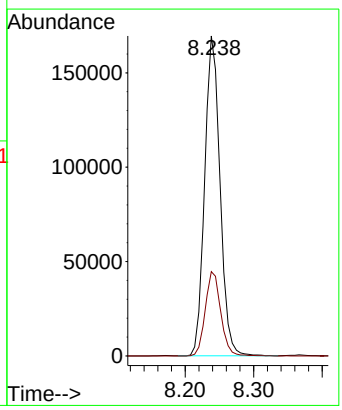


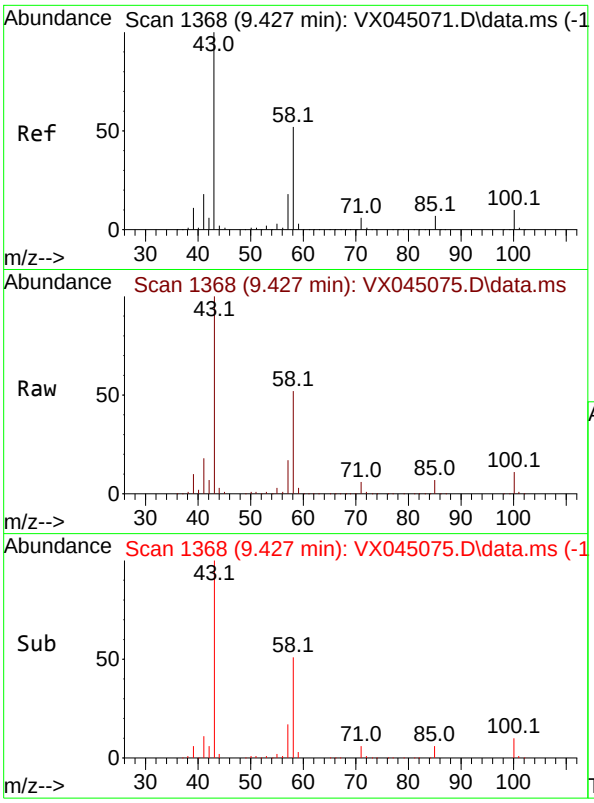


#58
2-Chloroethyl Vinyl ether
Concen: 275.557 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 264335

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3



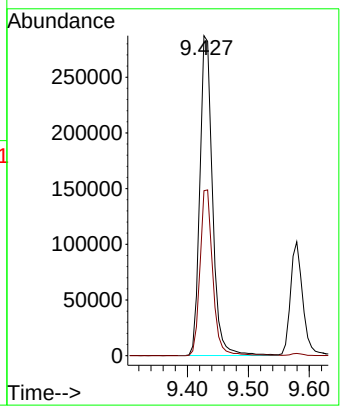


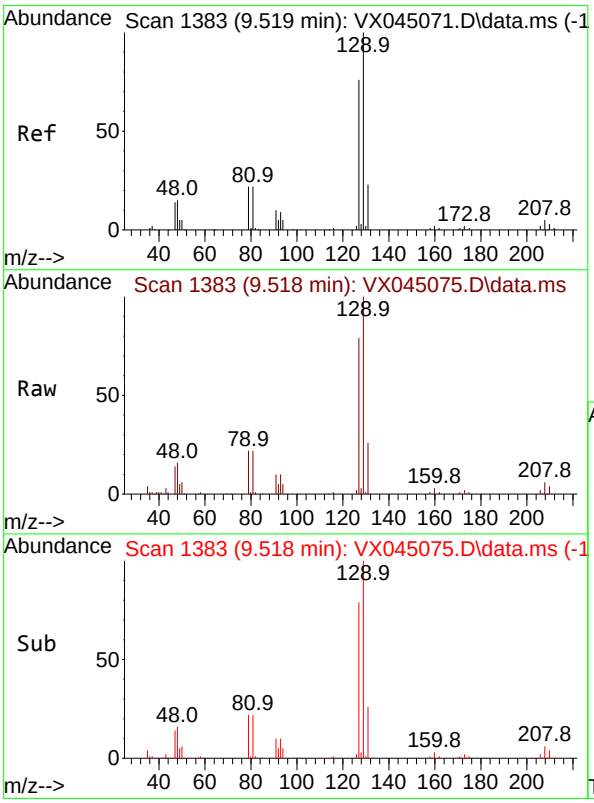
#59
2-Hexanone
Concen: 265.049 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 43 Resp: 416731

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.9	77.6

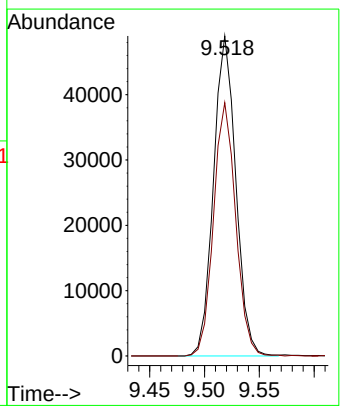


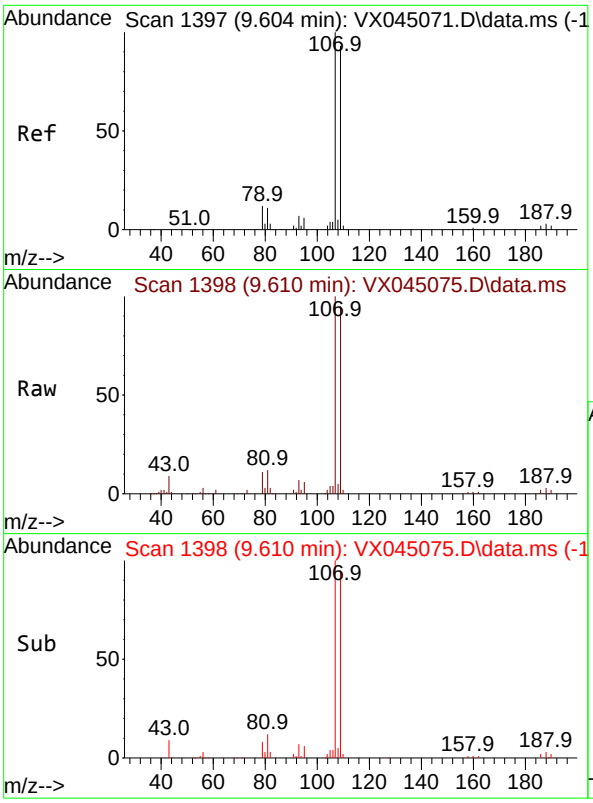


#60
Dibromochloromethane
Concen: 51.374 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:129 Resp: 69492

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.5	115.5



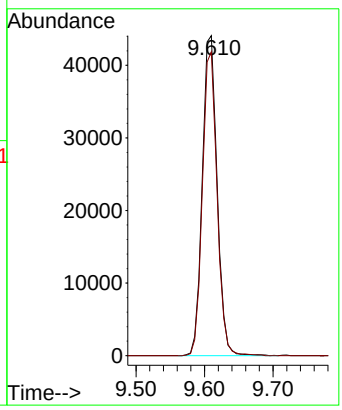


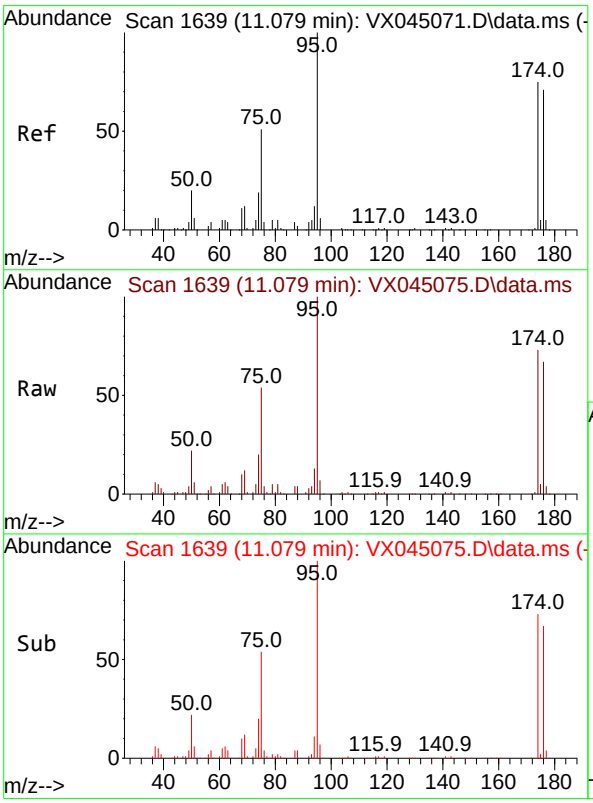
#61
1,2-Dibromoethane
Concen: 51.492 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:107 Resp: 66501

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1

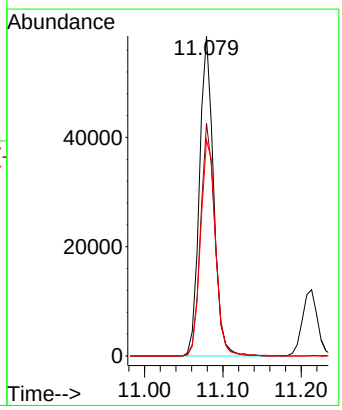


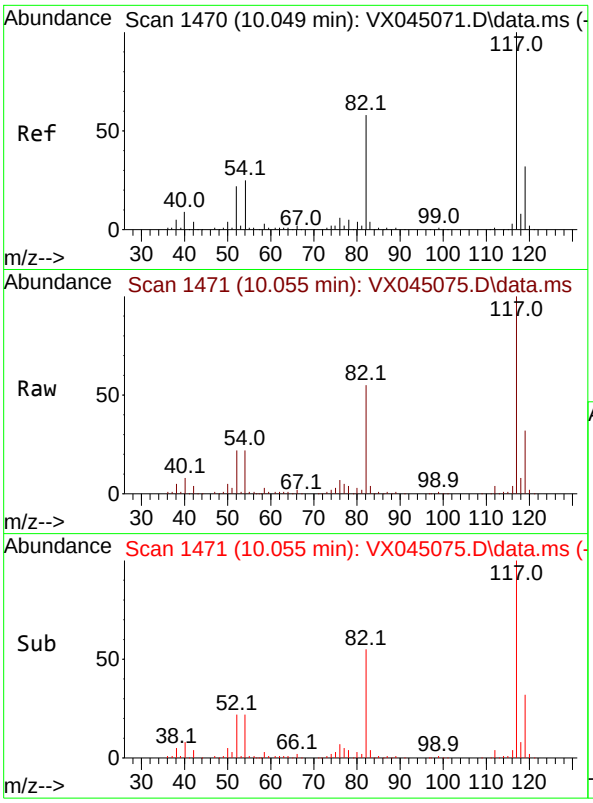


#62
4-Bromofluorobenzene
Concen: 49.240 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 95 Resp: 73162

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	148.2
176	71.3	0.0	141.4



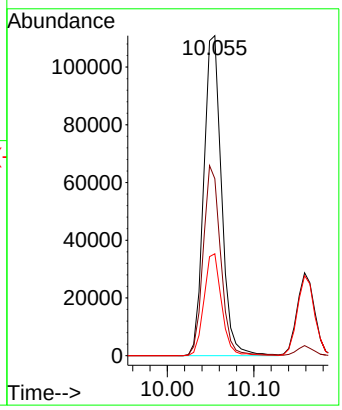


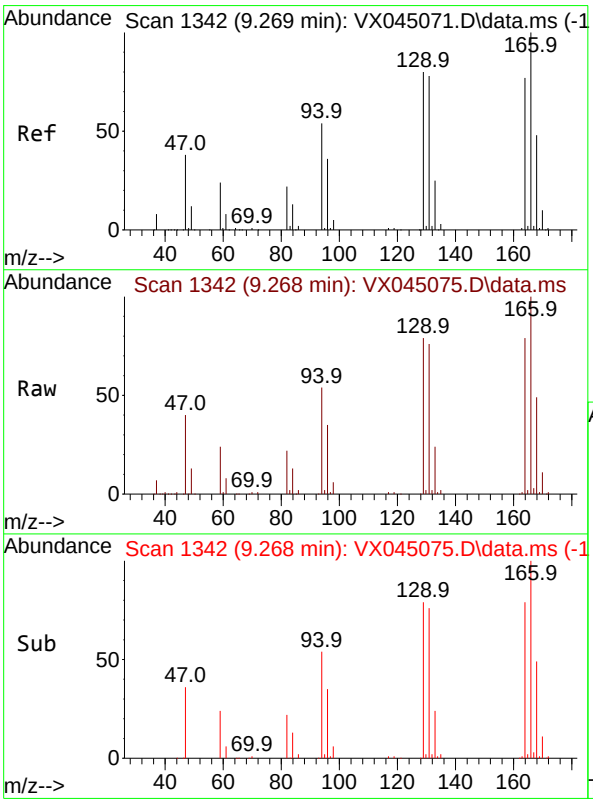
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:117 Resp: 157797

Ion	Ratio	Lower	Upper
117	100		
82	55.3	46.3	69.5
119	31.9	25.7	38.5

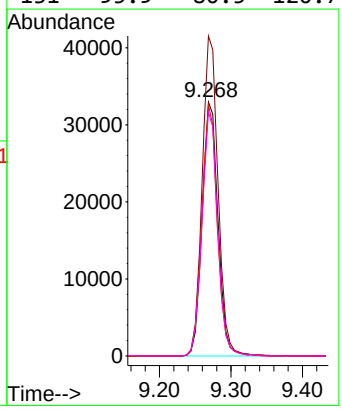


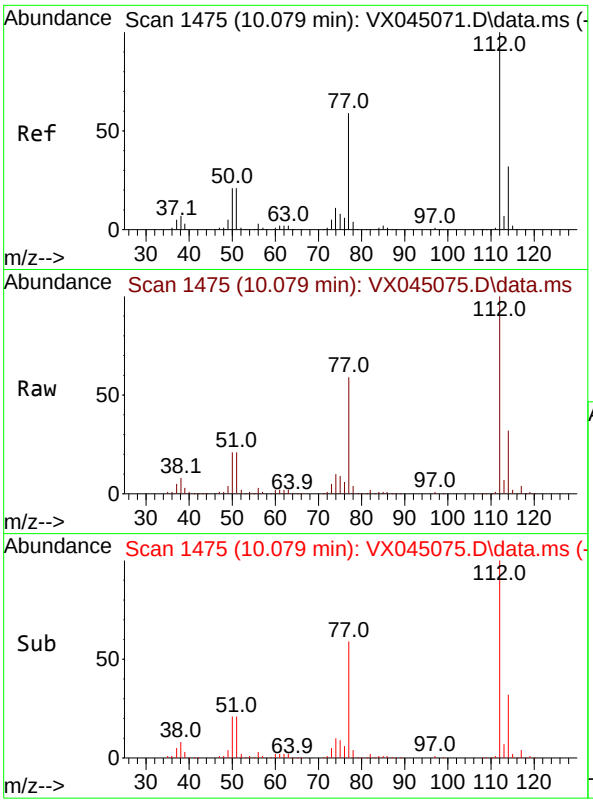


#64
Tetrachloroethene
Concen: 50.126 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:164 Resp: 50659

Ion	Ratio	Lower	Upper
164	100		
166	126.0	103.6	155.4
129	99.0	82.7	124.1
131	95.9	80.5	120.7



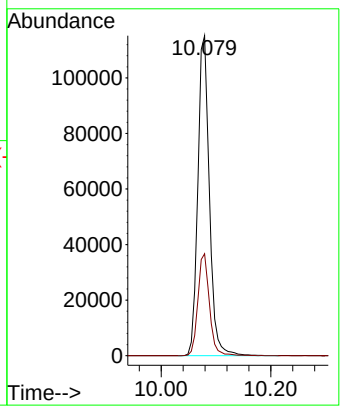


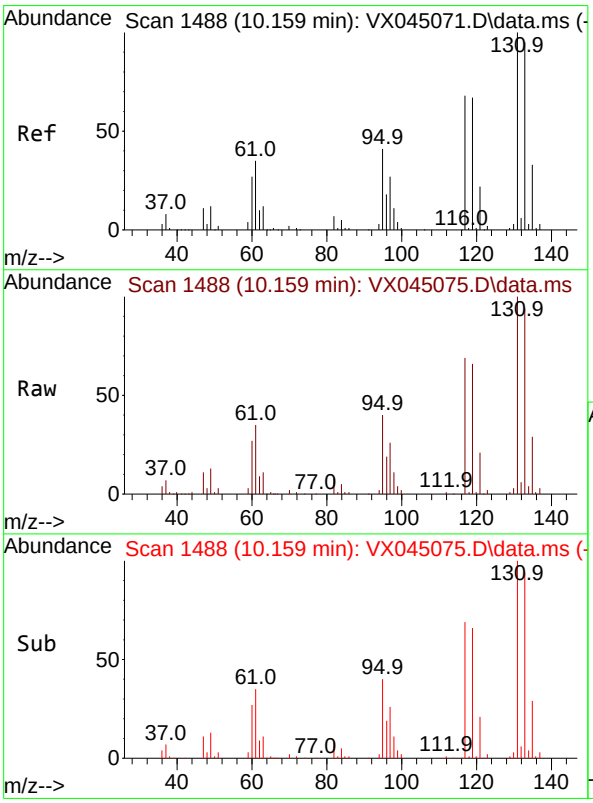
#65
Chlorobenzene
Concen: 50.580 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:112 Resp: 168885

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.0	39.0

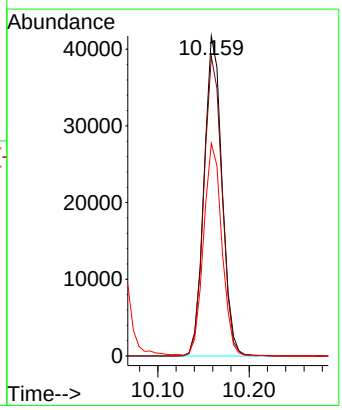


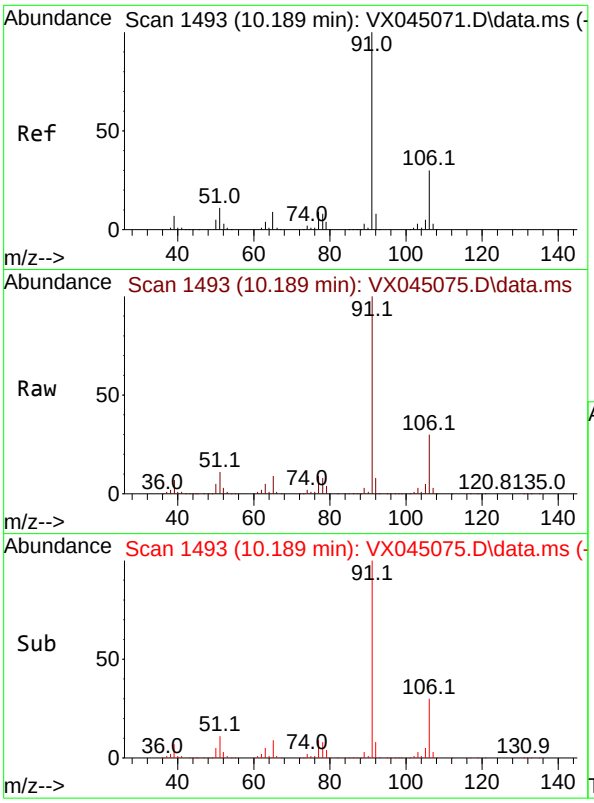


#66
1,1,1,2-Tetrachloroethane
Concen: 51.102 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:131 Resp: 56822

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.6	145.9
119	67.6	33.9	101.7



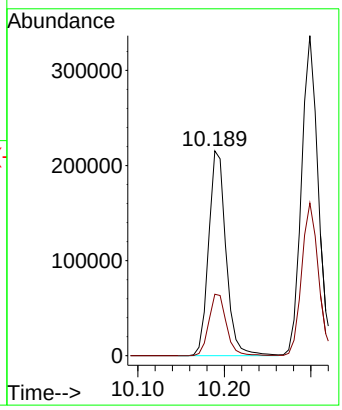


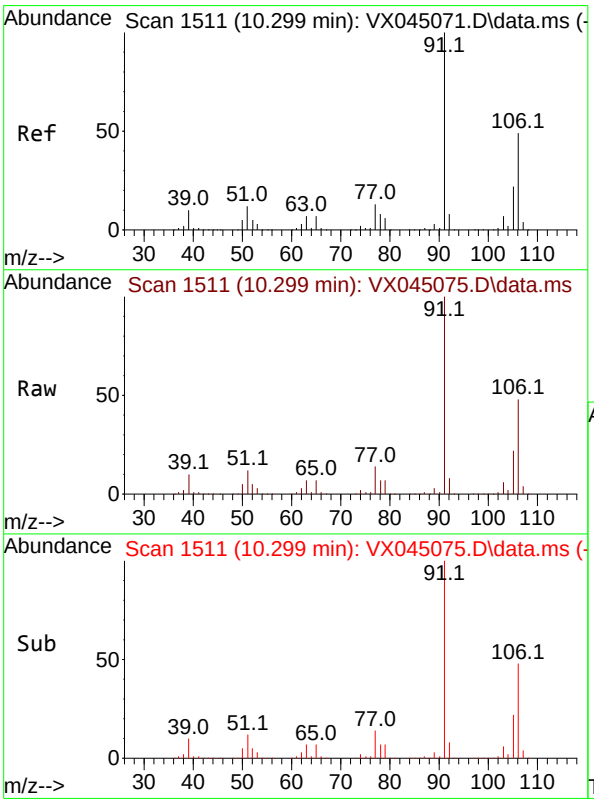
#67
Ethyl Benzene
Concen: 51.621 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 91 Resp: 300324

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

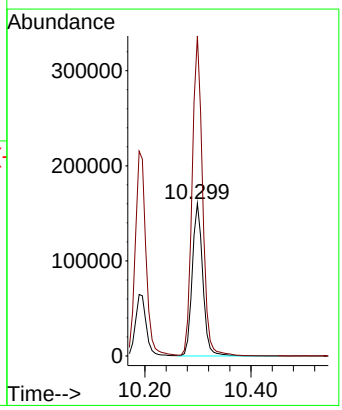


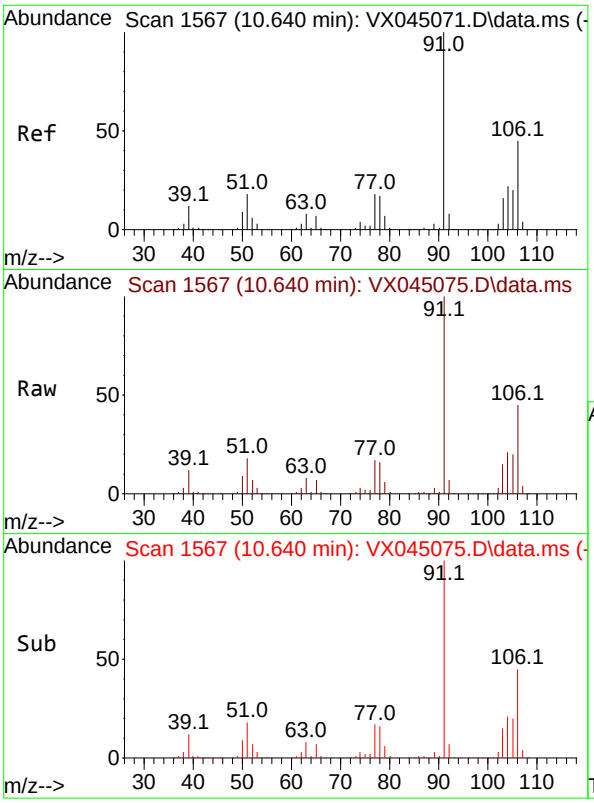


#68
m/p-Xylenes
Concen: 103.454 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:106 Resp: 220335

Ion	Ratio	Lower	Upper
106	100		
91	207.8	165.4	248.0



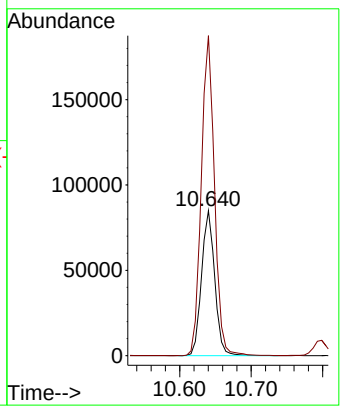


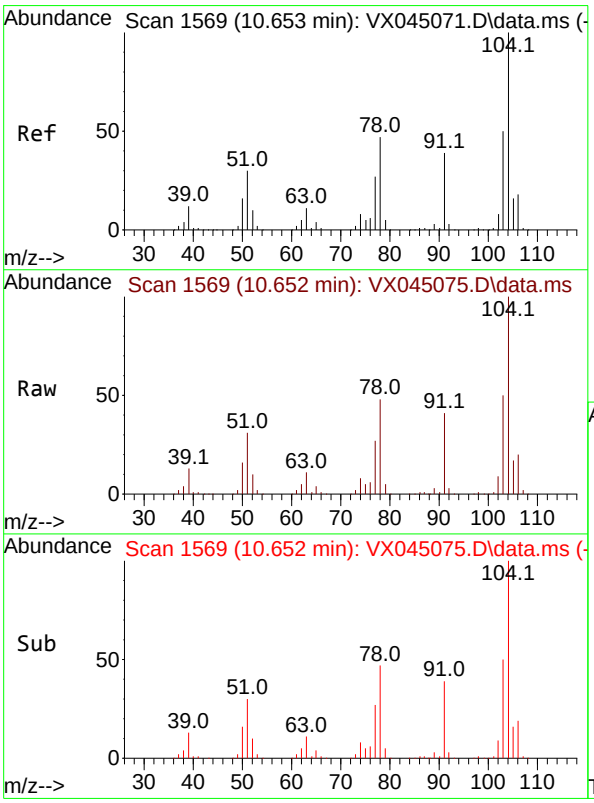
#69
o-Xylene
Concen: 50.668 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:106 Resp: 108836

Ion	Ratio	Lower	Upper
106	100		
91	220.5	109.9	329.6

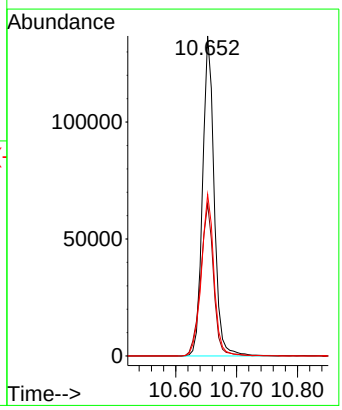


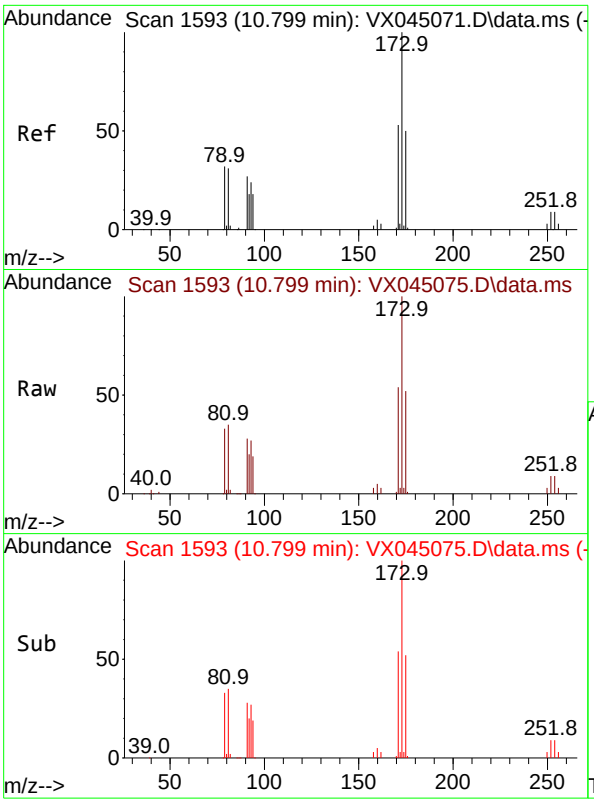


#70
Styrene
Concen: 52.177 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:104 Resp: 181349

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	55.1	43.8	65.8



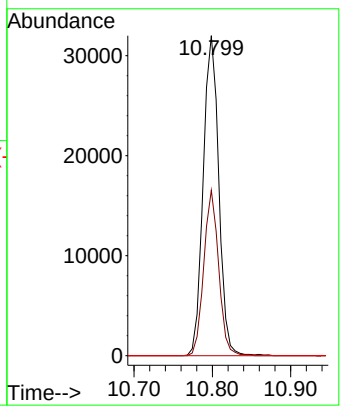


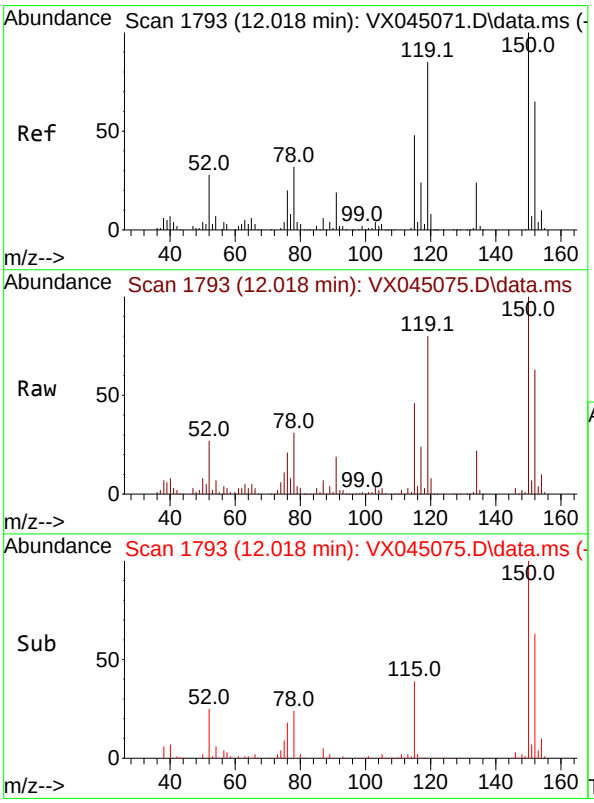
#71
Bromoform
Concen: 52.636 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:173 Resp: 44135

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.6	73.6
254	0.0	0.0	0.0

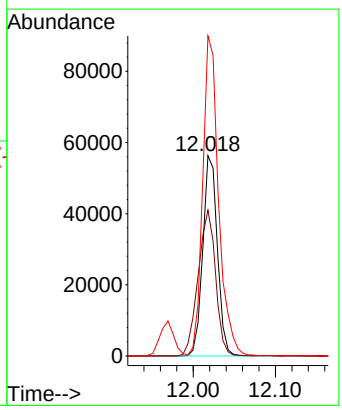


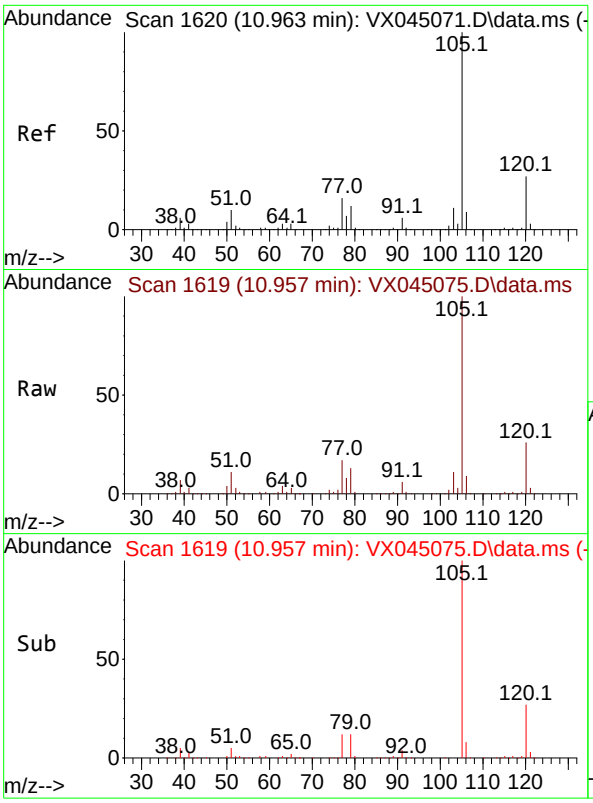


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:152 Resp: 69357

Ion	Ratio	Lower	Upper
152	100		
115	86.9	44.2	132.6
150	174.3	0.0	349.0



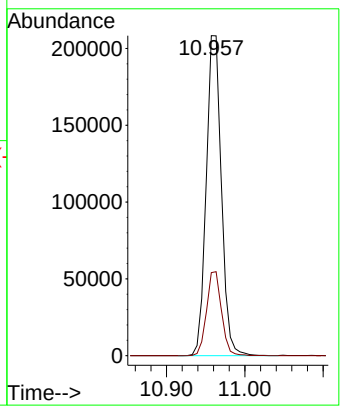


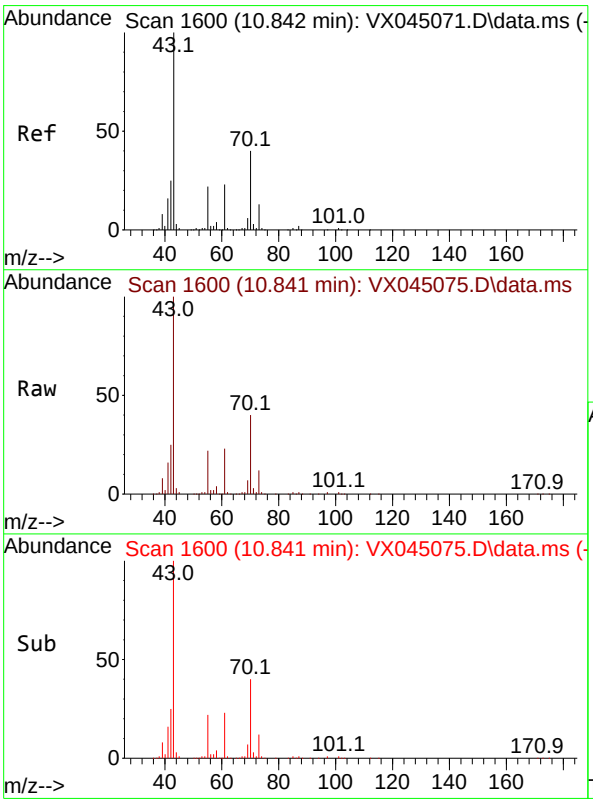
#73
Isopropylbenzene
Concen: 51.589 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:105 Resp: 279278

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5

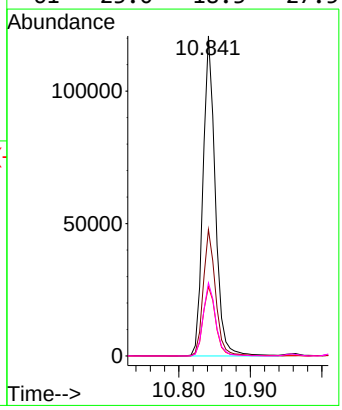


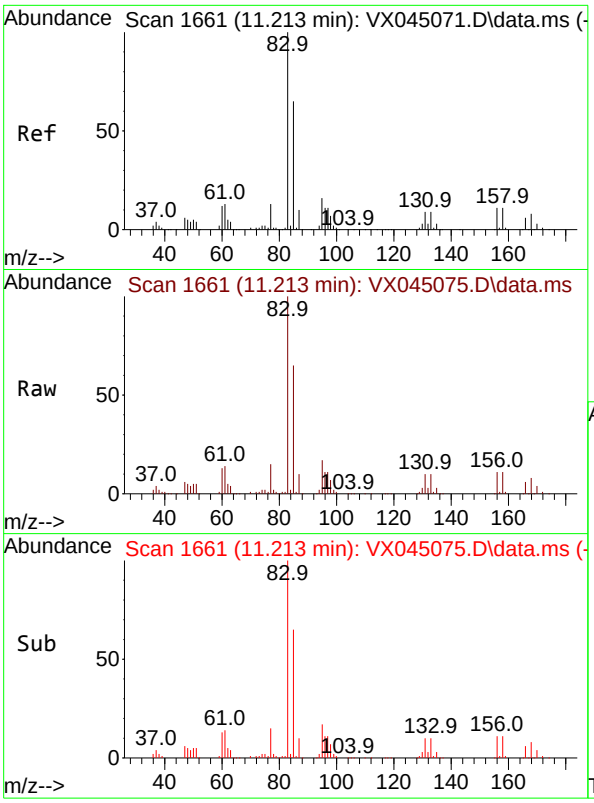


#74
N-amyl acetate
Concen: 56.851 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 144412

Ion	Ratio	Lower	Upper
43	100		
70	39.5	31.8	47.6
55	22.3	18.3	27.5
61	23.0	18.3	27.5



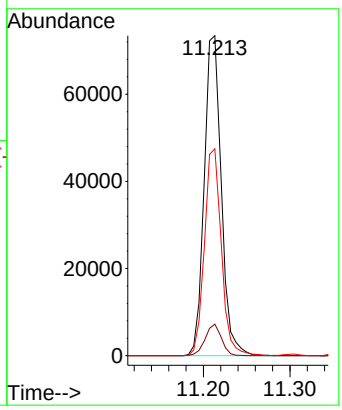


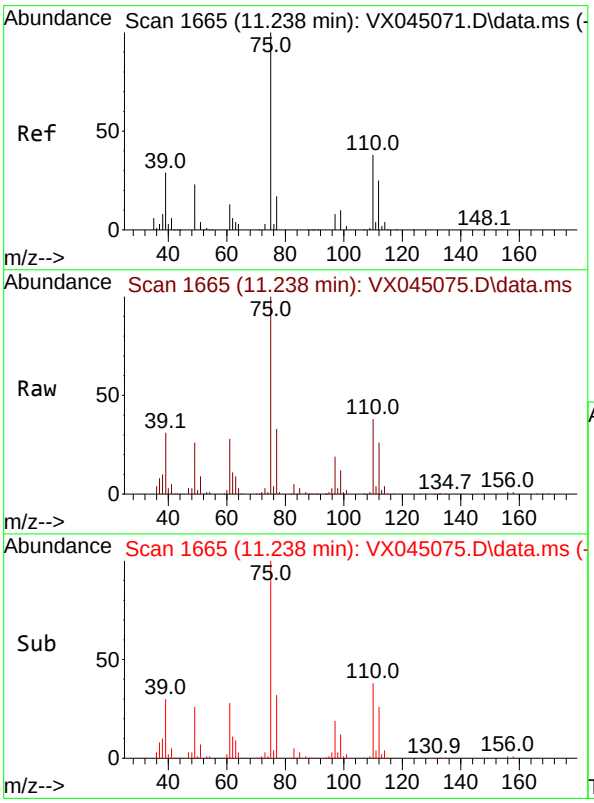
#75
1,1,2,2-Tetrachloroethane
Concen: 50.741 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 83 Resp: 100800

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.4
85	64.0	31.7	95.1

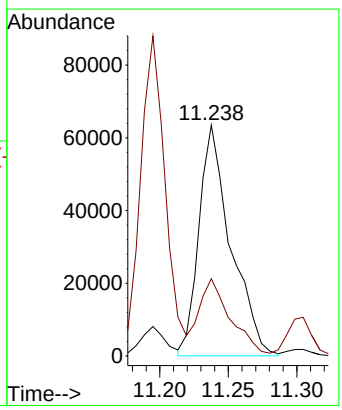


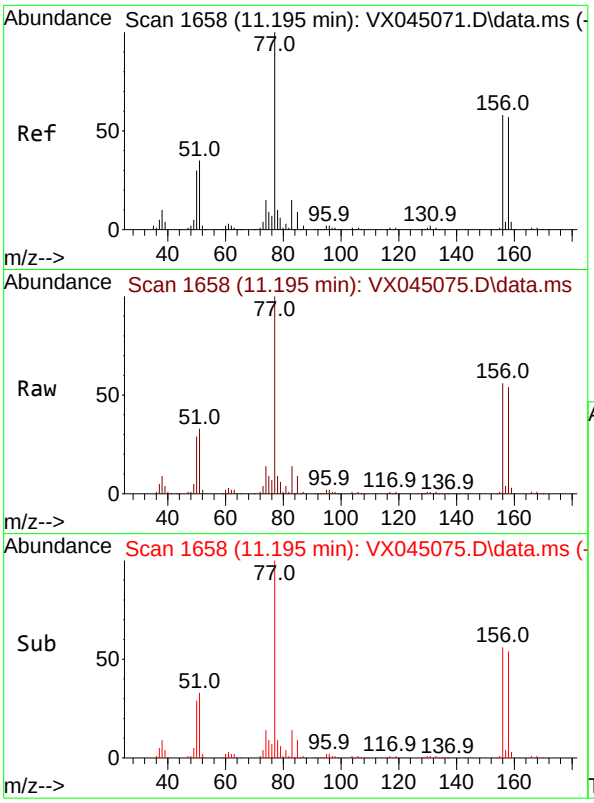


#76
1,2,3-Trichloropropane
Concen: 63.694 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 102821

Ion	Ratio	Lower	Upper
75	100		
77	33.3	20.7	62.1



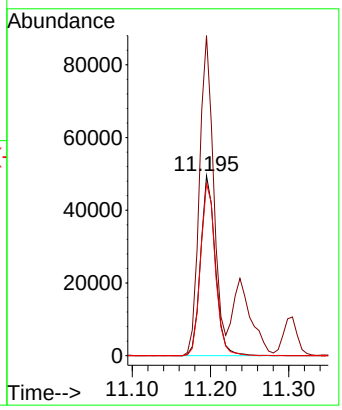


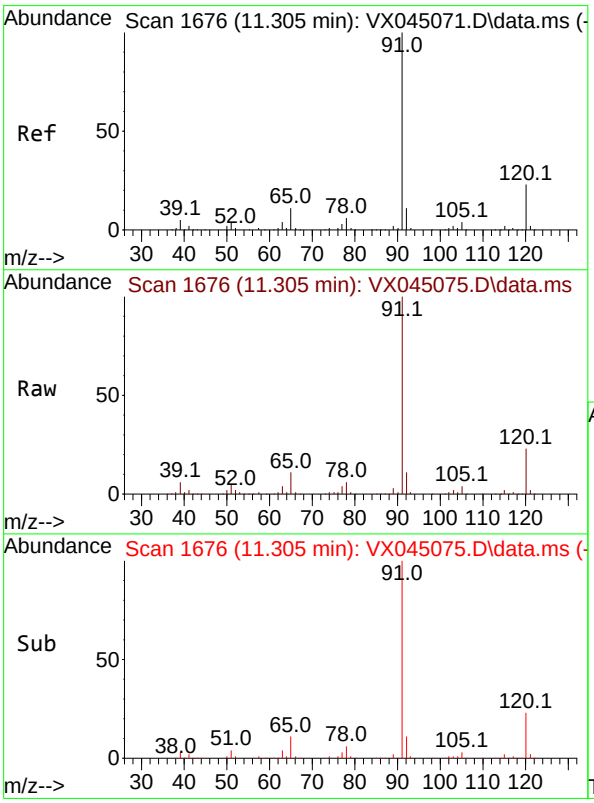
#77
Bromobenzene
Concen: 50.360 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:156 Resp: 64324

Ion	Ratio	Lower	Upper
156	100		
77	172.1	85.8	257.4
158	96.5	48.4	145.2

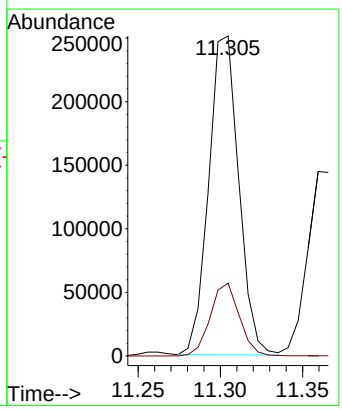


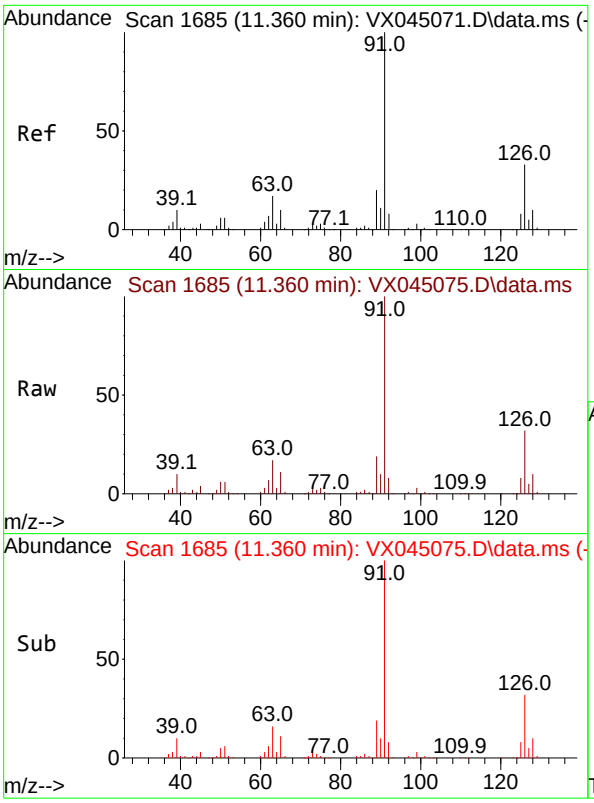


#78
n-propylbenzene
Concen: 52.203 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 319235

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.6



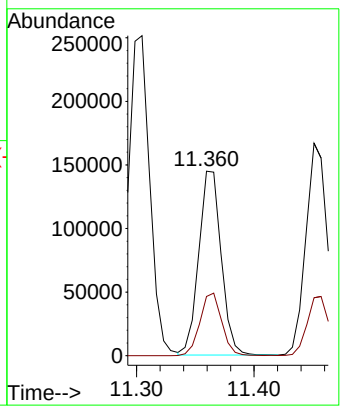


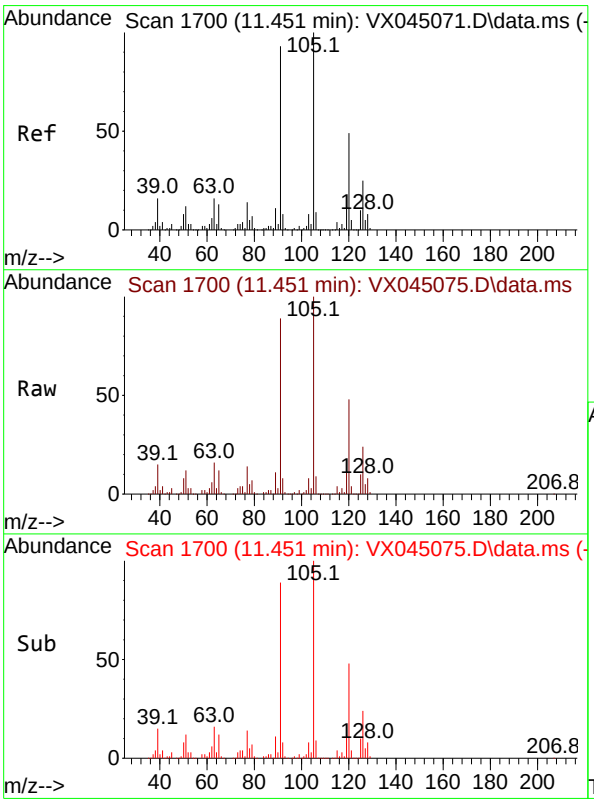
#79
2-Chlorotoluene
Concen: 49.338 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 91 Resp: 192150

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.4	49.4

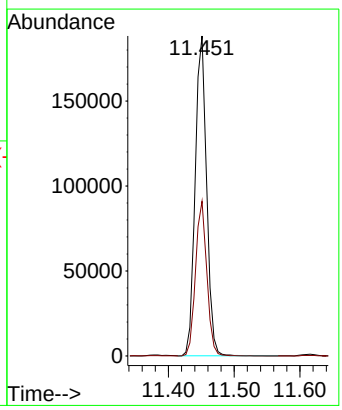


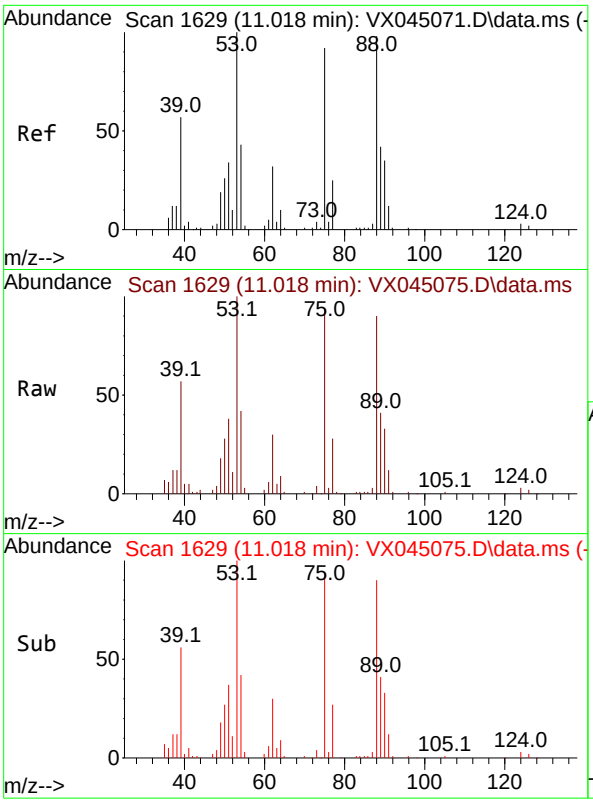


#80
1,3,5-Trimethylbenzene
Concen: 51.544 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 225622

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.1	72.2



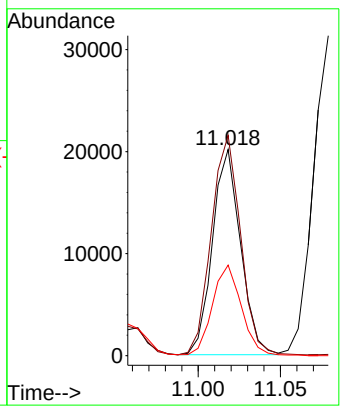


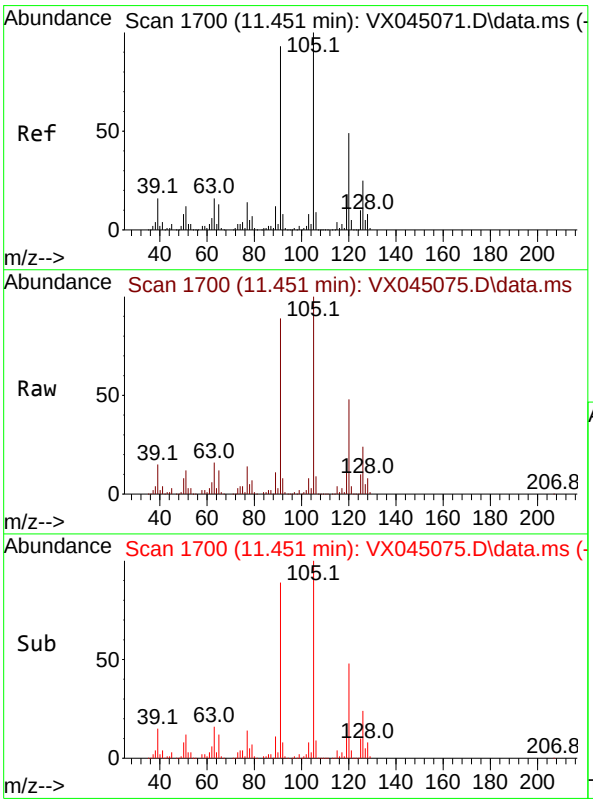
#81
trans-1,4-Dichloro-2-butene
Concen: 50.757 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 75 Resp: 23943

Ion	Ratio	Lower	Upper
75	100		
53	111.4	88.5	132.7
89	45.8	36.2	54.4

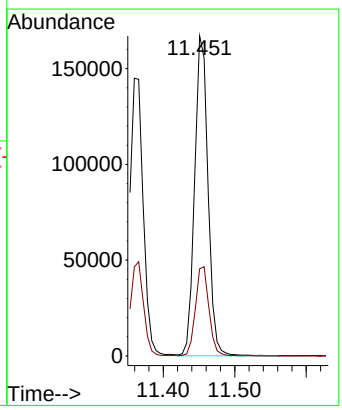


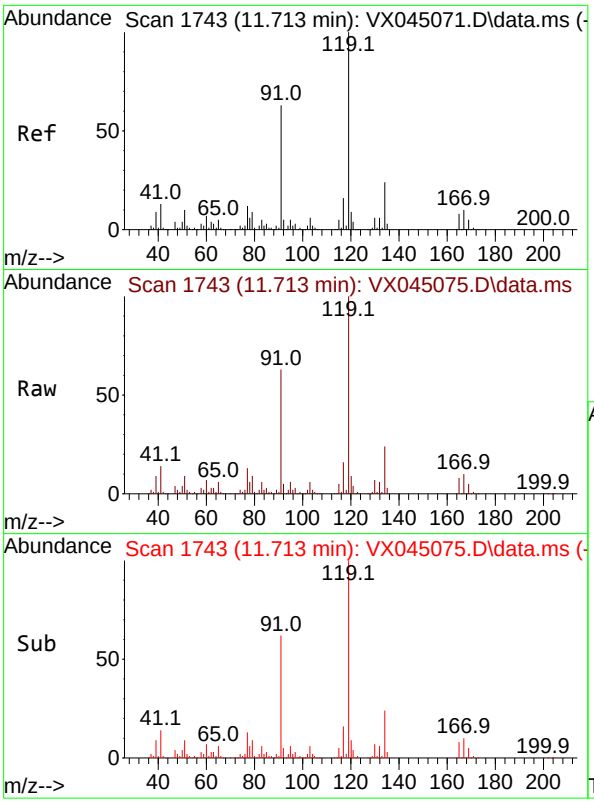


#82
4-Chlorotoluene
Concen: 51.009 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 216511

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.1	42.4



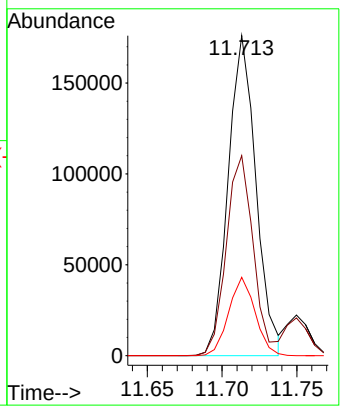


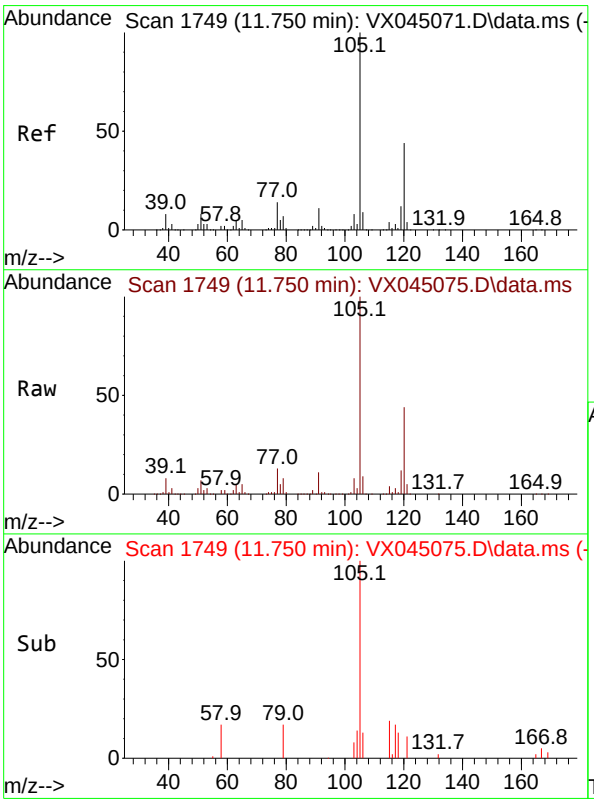
#83
tert-Butylbenzene
Concen: 50.552 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:119 Resp: 227357

Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.7	92.1
134	23.4	11.7	35.0

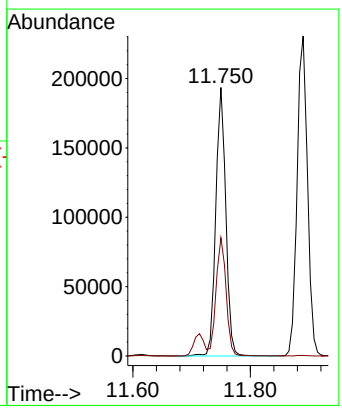


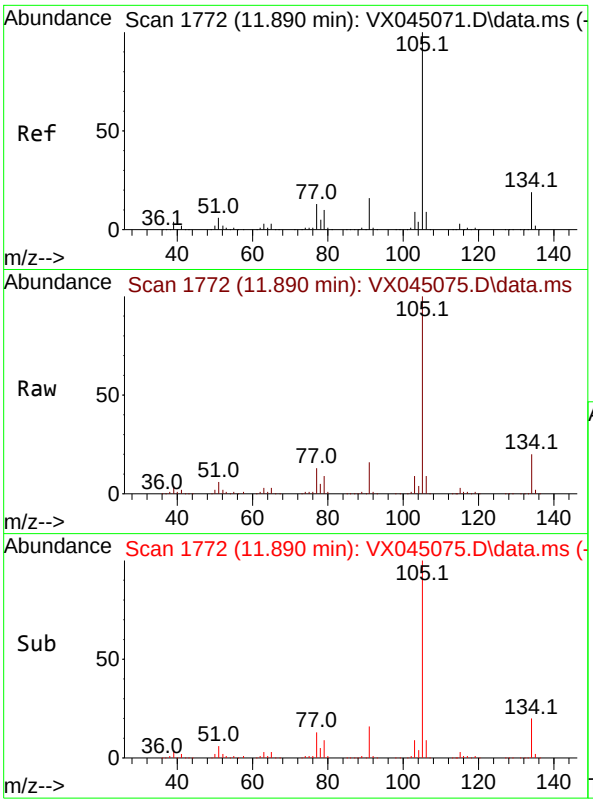


#84
1,2,4-Trimethylbenzene
Concen: 51.932 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 228729

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1



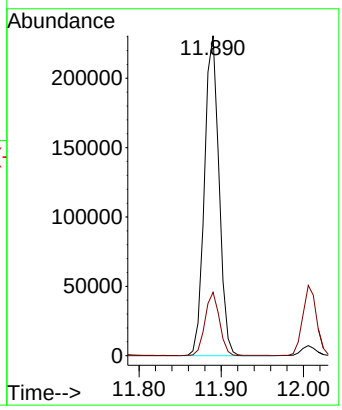


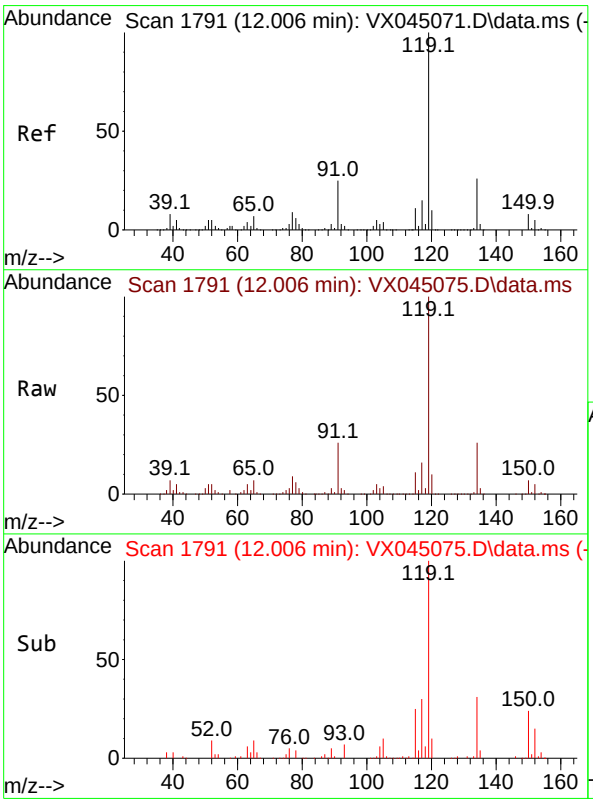
#85
sec-Butylbenzene
Concen: 52.703 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:105 Resp: 283931

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

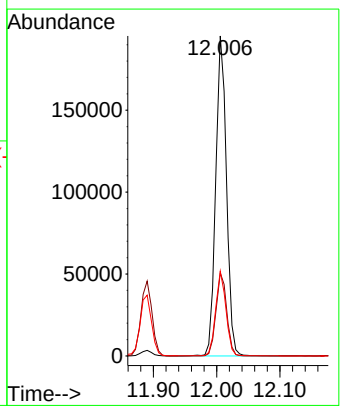


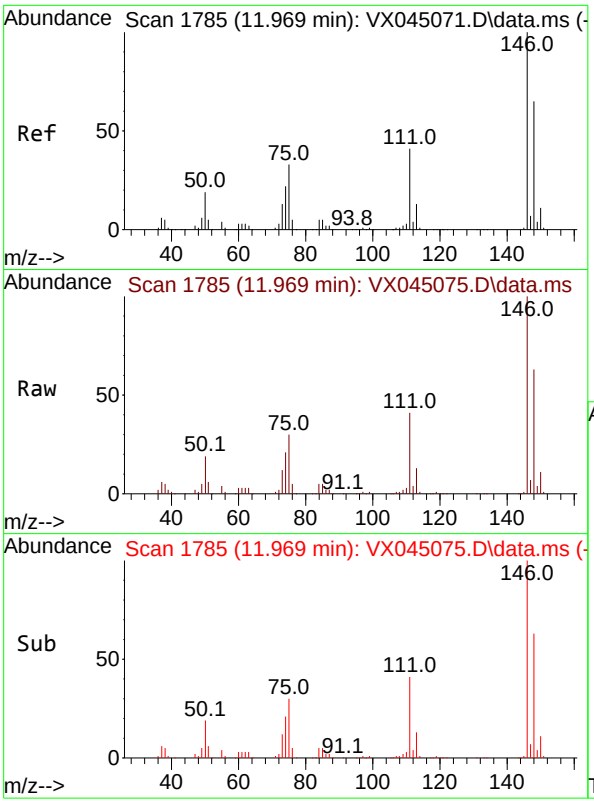


#86
p-Isopropyltoluene
Concen: 52.803 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:119 Resp: 229894

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.6
91	25.3	12.7	38.0



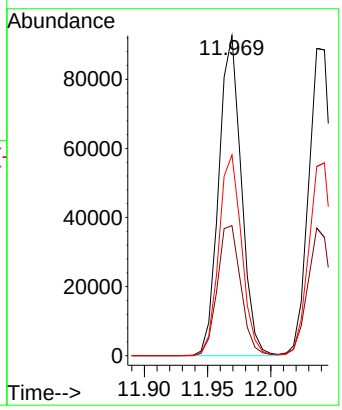


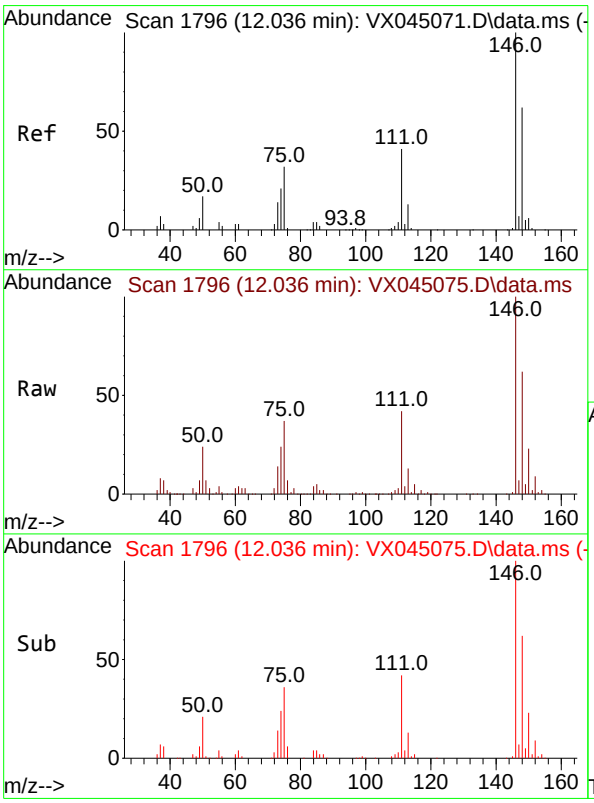
#87
1,3-Dichlorobenzene
Concen: 50.372 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:146 Resp: 114778

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.1	63.4
148	63.6	31.9	95.7

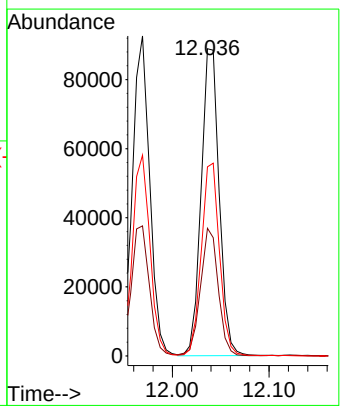


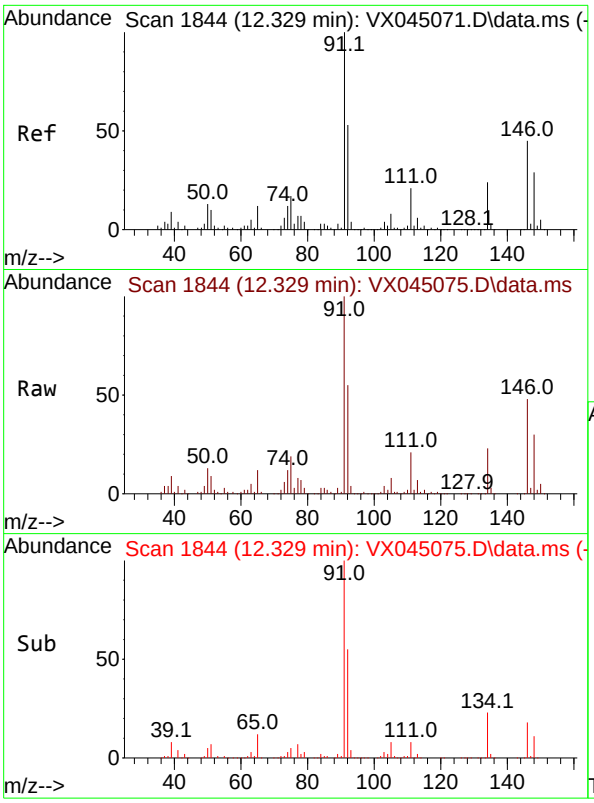


#88
1,4-Dichlorobenzene
Concen: 50.097 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:146 Resp: 115486

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.2	60.5
148	63.0	31.9	95.9



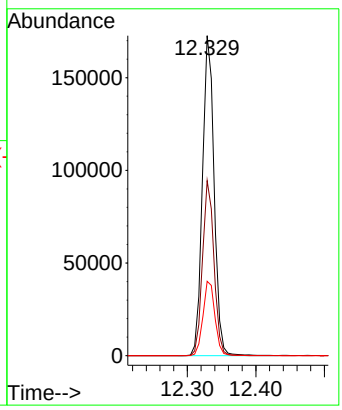


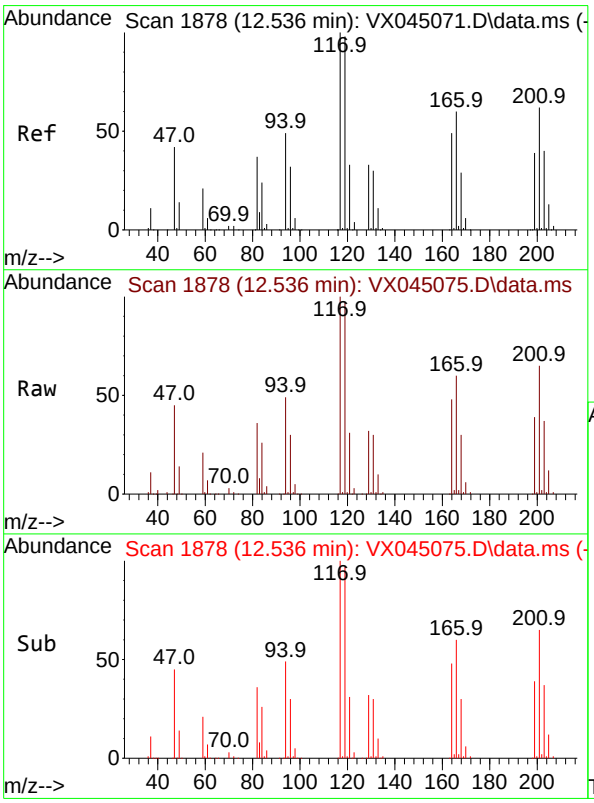
#89
n-Butylbenzene
Concen: 54.662 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion: 91 Resp: 204972

Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.7	80.0
134	23.9	12.2	36.6

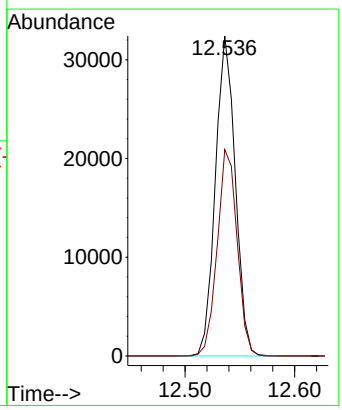


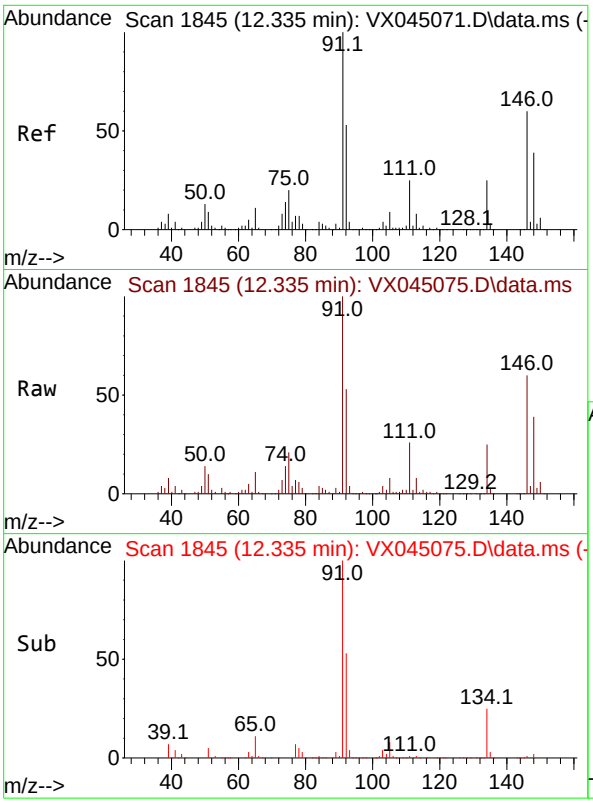


#90
Hexachloroethane
Concen: 51.866 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 40844

Ion	Ratio	Lower	Upper
117	100		
201	64.7	31.9	95.9



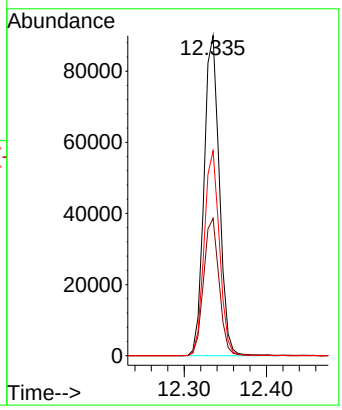


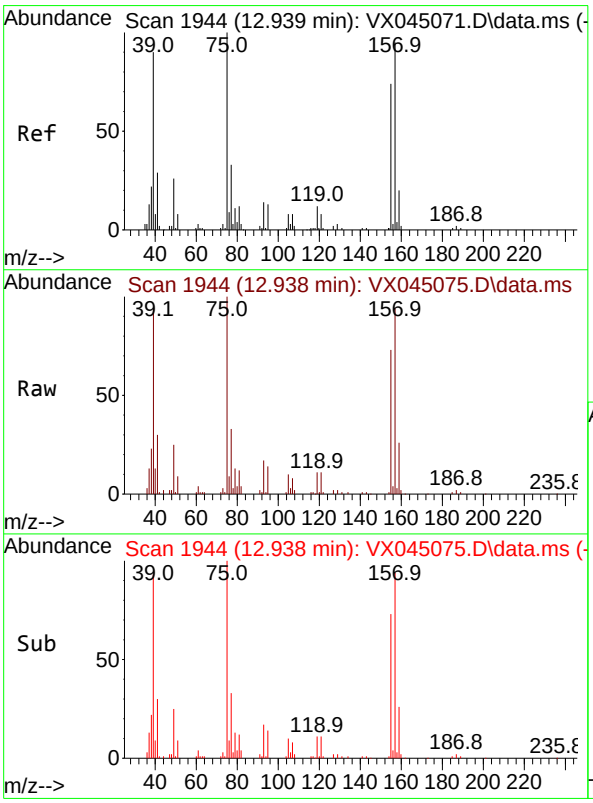
#91
1,2-Dichlorobenzene
Concen: 50.899 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:146 Resp: 116343

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.6	65.0
148	63.9	31.9	95.9

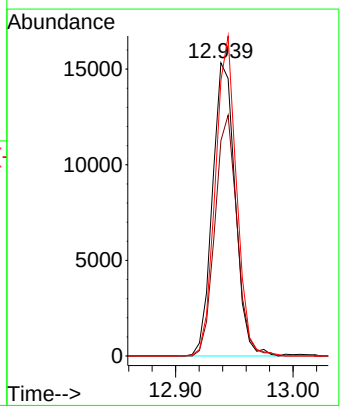


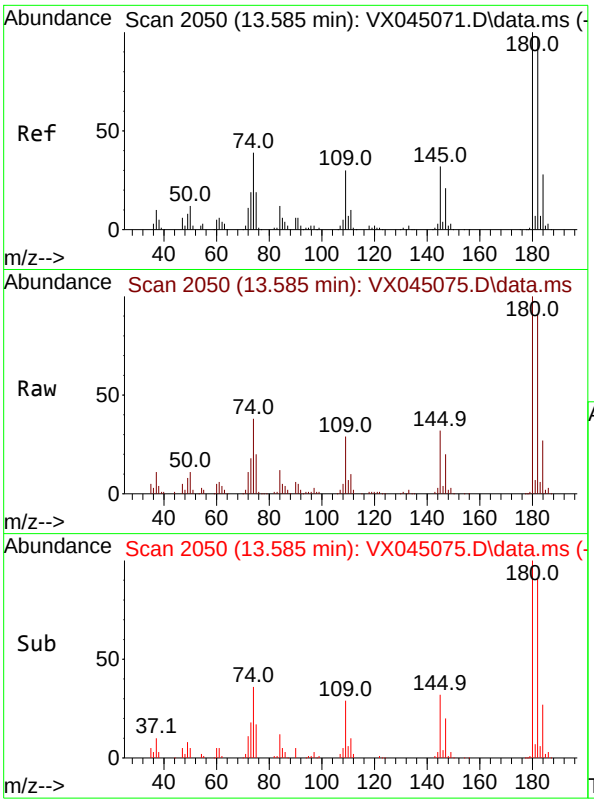


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.199 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 20589

Ion	Ratio	Lower	Upper
75	100		
155	79.8	39.6	118.7
157	101.7	51.1	153.4



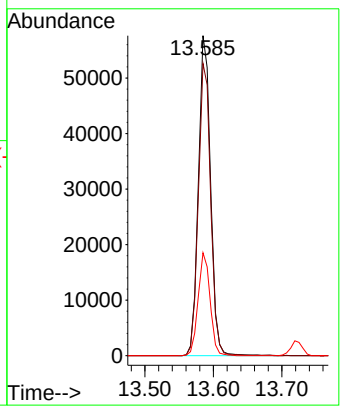


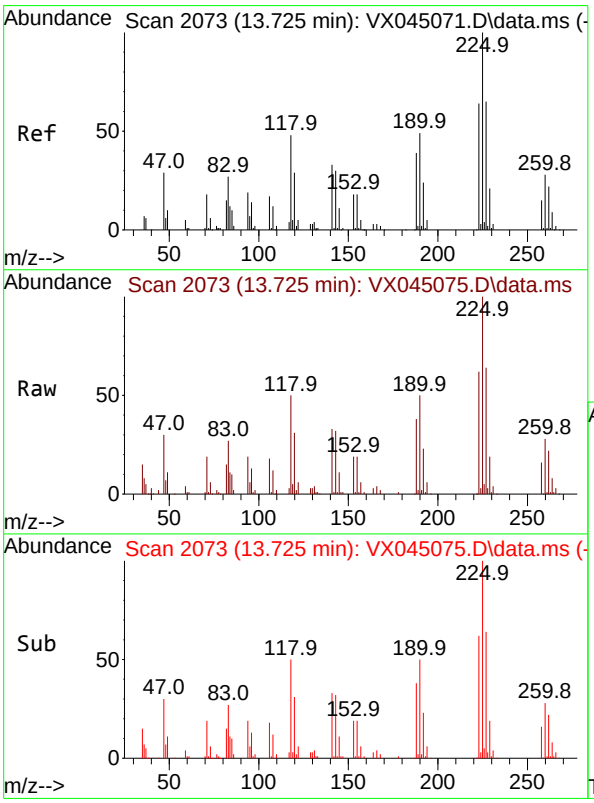
#93
1,2,4-Trichlorobenzene
Concen: 54.834 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:180 Resp: 71368

Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.9
145	31.6	16.3	48.9

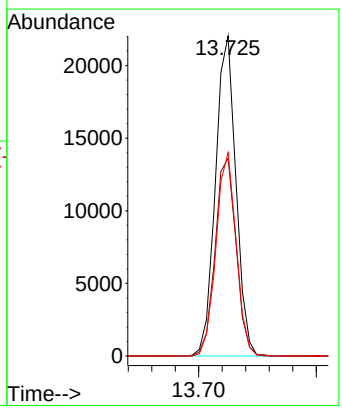


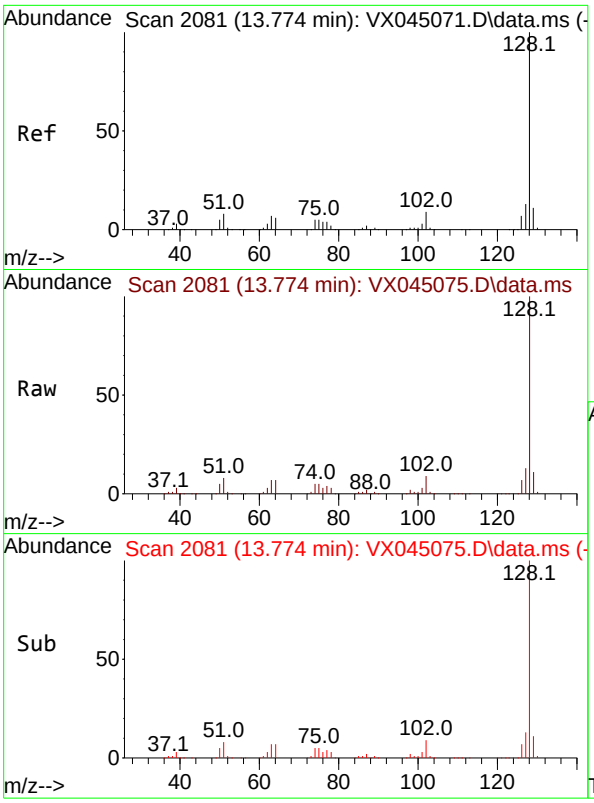


#94
Hexachlorobutadiene
Concen: 50.032 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:225 Resp: 26697

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.7
227	62.4	31.4	94.0



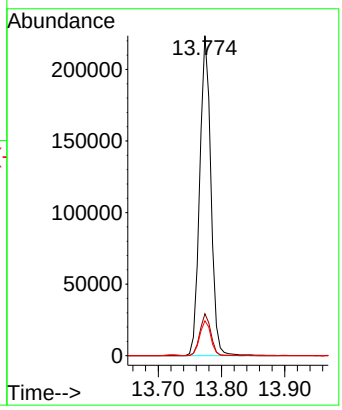


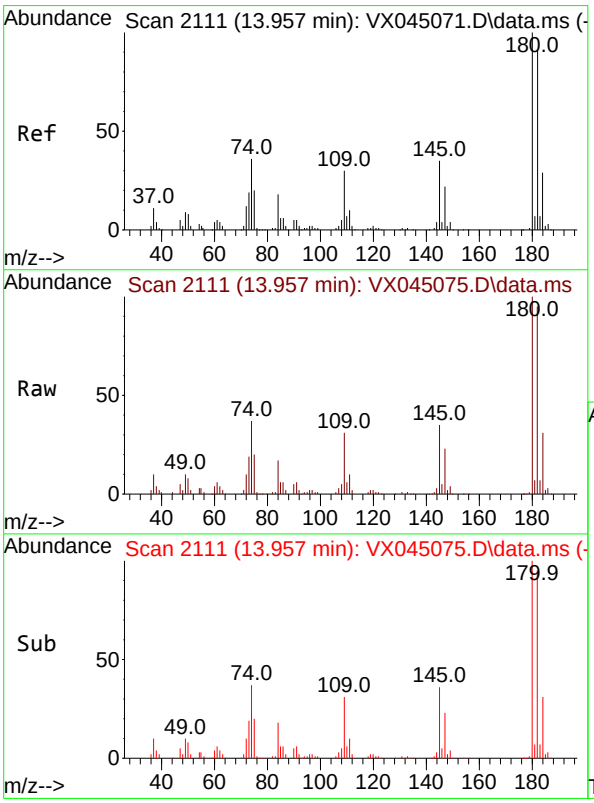
#95
Naphthalene
Concen: 55.163 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Tgt Ion:128 Resp: 275844

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.9	8.7	13.1

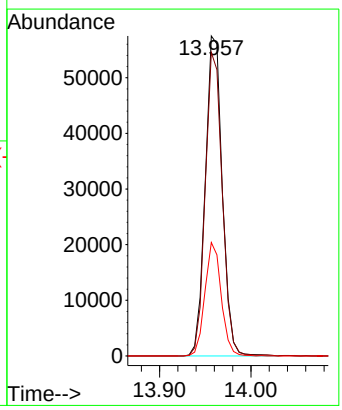




#96
1,2,3-Trichlorobenzene
Concen: 54.049 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:180 Resp: 74211

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.5	142.6
145	33.9	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	83260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	144945	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129576	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63016	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72923	55.062	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.120%			
35) Dibromofluoromethane	5.385	113	53282	54.975	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.940%			
50) Toluene-d8	8.647	98	182626	51.975	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.960%			
62) 4-Bromofluorobenzene	11.079	95	69681	59.846	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 119.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	66436	63.390	ug/l	93
3) Chloromethane	1.307	50	66903	52.163	ug/l	95
4) Vinyl Chloride	1.374	62	59965	47.130	ug/l	96
5) Bromomethane	1.593	94	28781	57.542	ug/l	97
6) Chloroethane	1.666	64	32807	55.901	ug/l	95
7) Trichlorofluoromethane	1.874	101	91006	54.030	ug/l	97
8) Diethyl Ether	2.130	74	29617	44.955	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	58221	60.165	ug/l	98
10) Methyl Iodide	2.441	142	68492	56.637	ug/l	94
11) Tert butyl alcohol	2.977	59	55509	221.277	ug/l	96
12) 1,1-Dichloroethene	2.306	96	54221	52.997	ug/l	96
13) Acrolein	2.233	56	77829	268.391	ug/l	98
14) Allyl chloride	2.654	41	101764	55.879	ug/l	92
15) Acrylonitrile	3.062	53	168372	250.432	ug/l	99
16) Acetone	2.386	43	164112	267.080	ug/l	97
17) Carbon Disulfide	2.502	76	136796	50.201	ug/l	98
18) Methyl Acetate	2.703	43	71289	48.227	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	181535	52.888	ug/l	97
20) Methylene Chloride	2.782	84	60694	49.864	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	53348	52.781	ug/l	97
22) Diisopropyl ether	3.757	45	192840	52.066	ug/l #	86
23) Vinyl Acetate	3.715	43	885598	286.525	ug/l	98
24) 1,1-Dichloroethane	3.605	63	109159	52.589	ug/l	100
25) 2-Butanone	4.556	43	248088	268.225	ug/l	96
26) 2,2-Dichloropropane	4.471	77	80649	82.834	ug/l	94
27) cis-1,2-Dichloroethene	4.483	96	64325	51.554	ug/l	92
28) Bromochloromethane	4.891	49	48619	49.141	ug/l	98
29) Tetrahydrofuran	5.001	42	155653	250.594	ug/l	99
30) Chloroform	5.086	83	109652	53.166	ug/l	99
31) Cyclohexane	5.458	56	98942	54.912	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	94214	56.559	ug/l	98
36) 1,1-Dichloropropene	5.684	75	74619	56.139	ug/l	100
37) Ethyl Acetate	4.708	43	92765	54.162	ug/l	98
38) Carbon Tetrachloride	5.666	117	80811	59.885	ug/l	97
39) Methylcyclohexane	7.373	83	97660	61.319	ug/l	96
40) Benzene	6.031	78	224248	53.428	ug/l	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	51574	55.689	ug/l		98
42) 1,2-Dichloroethane	6.080	62	90507	59.882	ug/l		96
43) Isopropyl Acetate	6.336	43	146064	57.673	ug/l		98
44) Trichloroethene	7.117	130	52842	53.617	ug/l		100
45) 1,2-Dichloropropane	7.428	63	56590	52.440	ug/l		98
46) Dibromomethane	7.574	93	43826	57.458	ug/l		96
47) Bromodichloromethane	7.818	83	85701	57.282	ug/l		99
48) Methyl methacrylate	7.690	41	75819	59.672	ug/l		93
49) 1,4-Dioxane	7.653	88	28313	1056.380	ug/l		94
51) 4-Methyl-2-Pentanone	8.574	43	493305	290.090	ug/l		99
52) Toluene	8.714	92	136895	55.590	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	79234	63.348	ug/l		96
54) cis-1,3-Dichloropropene	8.360	75	88476	60.662	ug/l		92
55) 1,1,2-Trichloroethane	9.147	97	53576	52.847	ug/l		99
56) Ethyl methacrylate	9.116	69	90431	58.682	ug/l		92
57) 1,3-Dichloropropane	9.305	76	94299	53.749	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	224245	298.307	ug/l		100
59) 2-Hexanone	9.427	43	376299	305.413	ug/l		98
60) Dibromochloromethane	9.519	129	61649	58.159	ug/l		100
61) 1,2-Dibromoethane	9.604	107	56497	55.824	ug/l		99
64) Tetrachloroethene	9.269	164	45803	55.192	ug/l		96
65) Chlorobenzene	10.079	112	146378	53.387	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	50276	55.062	ug/l		97
67) Ethyl Benzene	10.189	91	267992	56.096	ug/l		98
68) m/p-Xylenes	10.299	106	196944	112.611	ug/l		95
69) o-Xylene	10.640	106	97592	55.328	ug/l		98
70) Styrene	10.653	104	164378	57.595	ug/l		97
71) Bromoform	10.799	173	39593	57.503	ug/l	#	99
73) Isopropylbenzene	10.957	105	256869	52.224	ug/l		99
74) N-amyl acetate	10.842	43	132920	57.592	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	89603	49.643	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	96348	65.690	ug/l		85
77) Bromobenzene	11.195	156	57616	49.647	ug/l		93
78) n-propylbenzene	11.299	91	307324	55.312	ug/l		98
79) 2-Chlorotoluene	11.360	91	186258	52.637	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	213188	53.605	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	24577	57.344	ug/l		90
82) 4-Chlorotoluene	11.451	91	213457	55.350	ug/l		98
83) tert-Butylbenzene	11.713	119	216792	53.053	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	220378	55.071	ug/l		98
85) sec-Butylbenzene	11.890	105	272850	55.742	ug/l		99
86) p-Isopropyltoluene	12.006	119	228640	57.799	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	110607	53.426	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	109112	52.095	ug/l		98
89) n-Butylbenzene	12.329	91	210489	61.782	ug/l		98
90) Hexachloroethane	12.536	117	39347	54.992	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	109233	52.598	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20341	57.847	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	65965	55.783	ug/l		99
94) Hexachlorobutadiene	13.725	225	27052	55.799	ug/l		97
95) Naphthalene	13.774	128	244271	53.764	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	66037	52.935	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

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

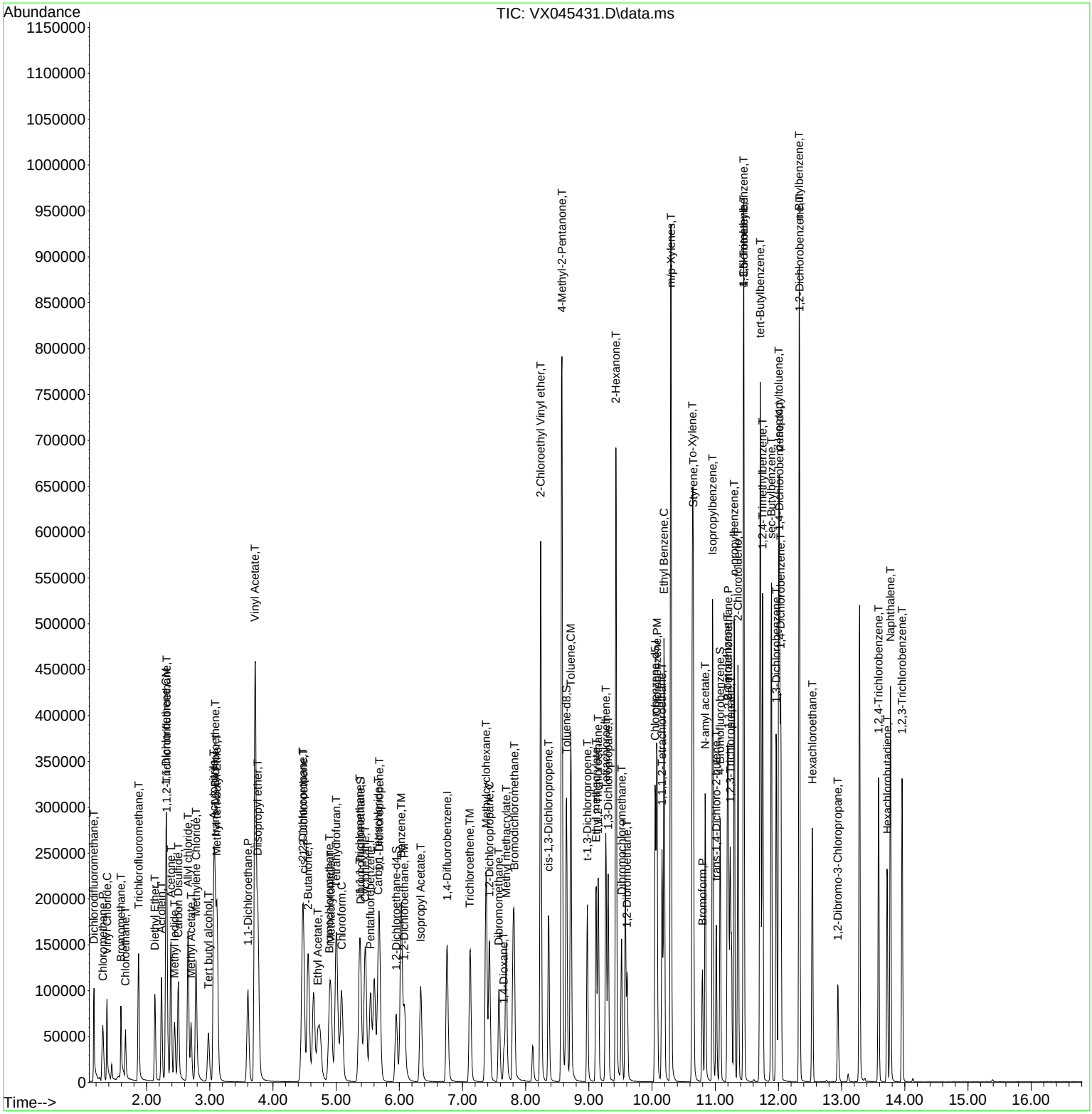
(#) = qualifier out of range (m) = manual integration (+) = signals summed

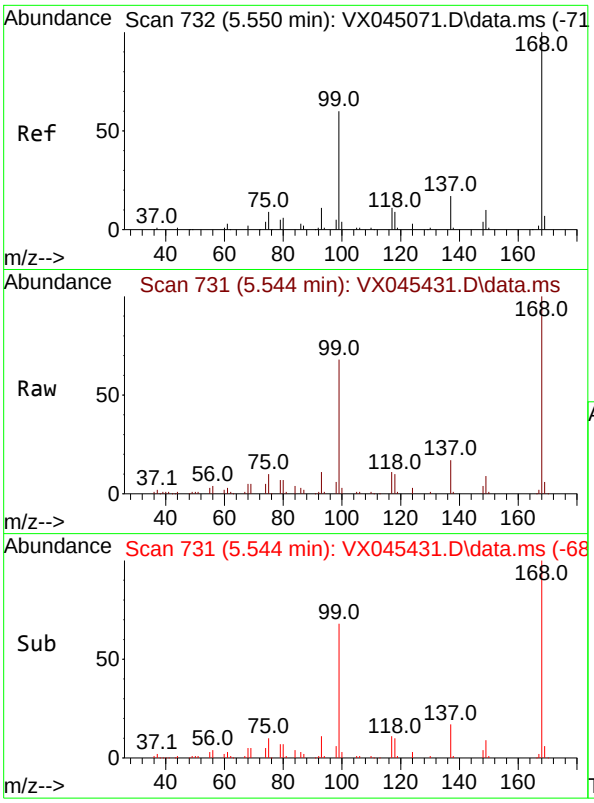
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045431.D
Acq On : 25 Mar 2025 11:31
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 26 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



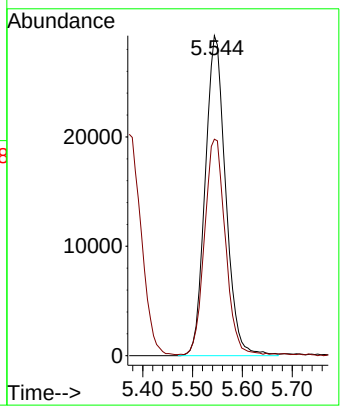


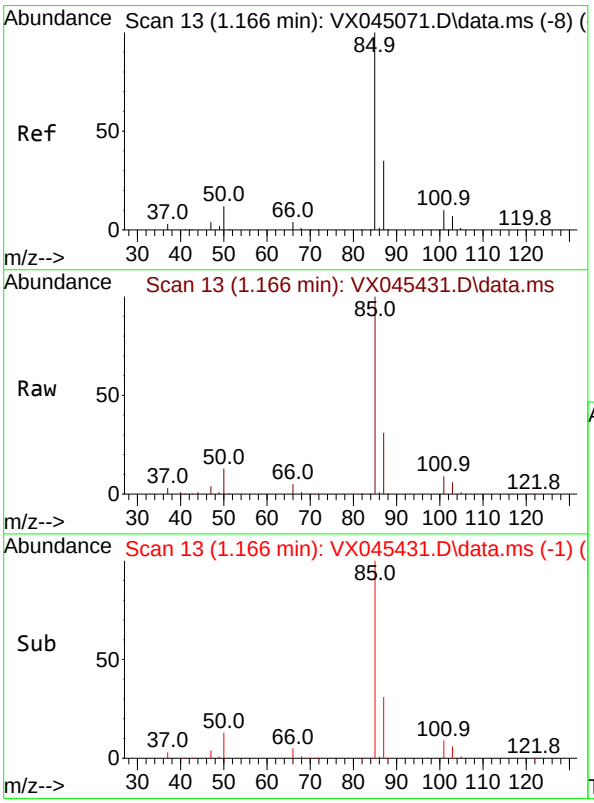
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 83260

Ion	Ratio	Lower	Upper
168	100		
99	67.3	48.2	72.4

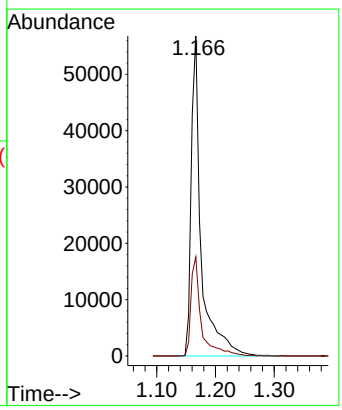


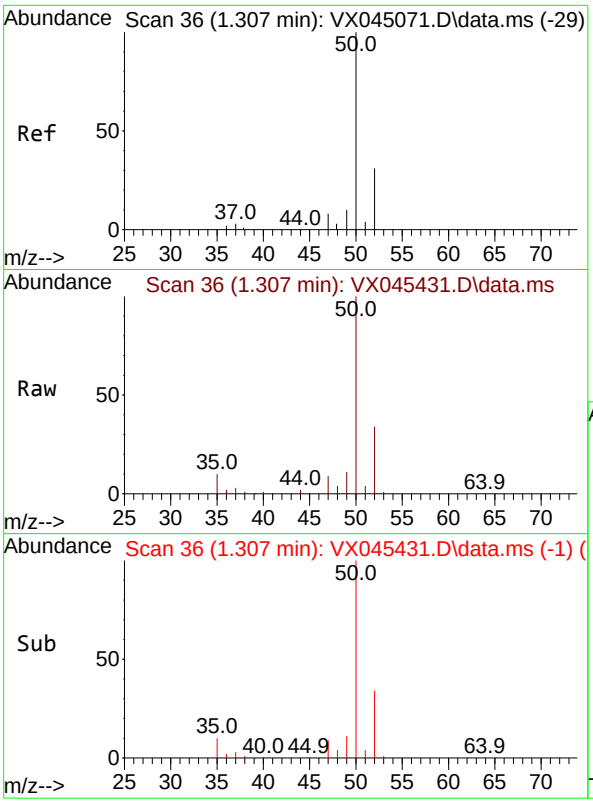


#2
Dichlorodifluoromethane
Concen: 63.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 85 Resp: 66436

Ion	Ratio	Lower	Upper
85	100		
87	30.9	17.4	52.3



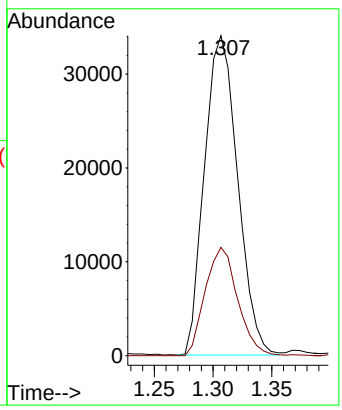


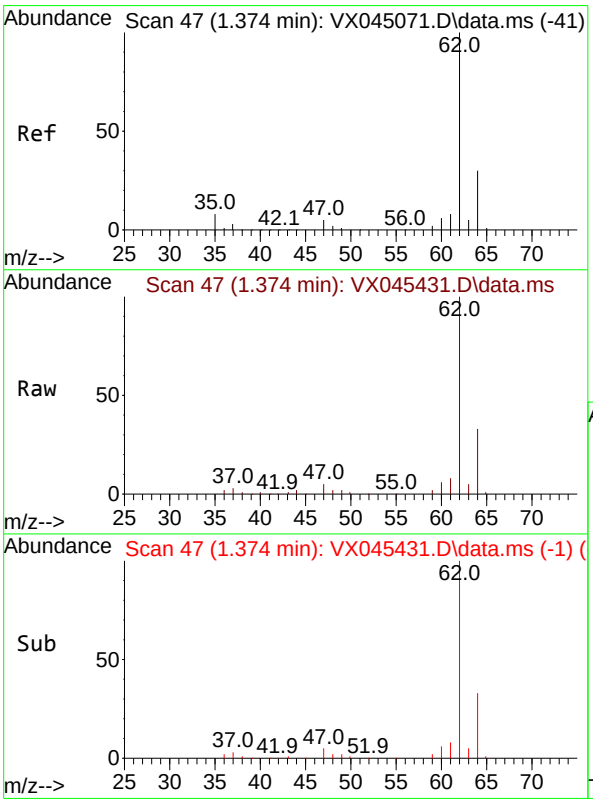
#3
Chloromethane
Concen: 52.163 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 66903

Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.0	37.4

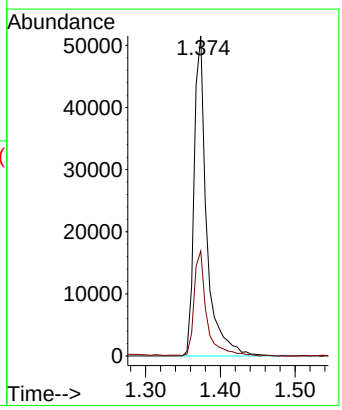


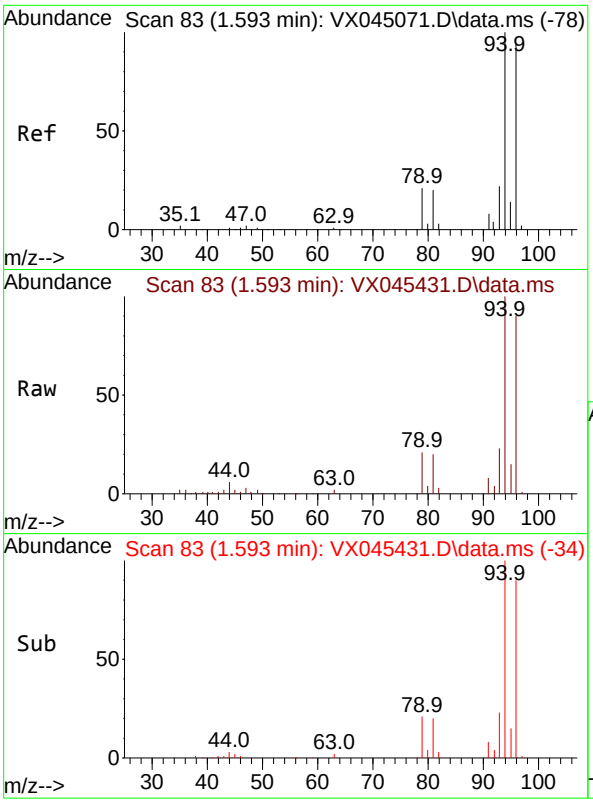


#4
Vinyl Chloride
Concen: 47.130 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 62 Resp: 59965

Ion	Ratio	Lower	Upper
62	100		
64	32.8	24.3	36.5



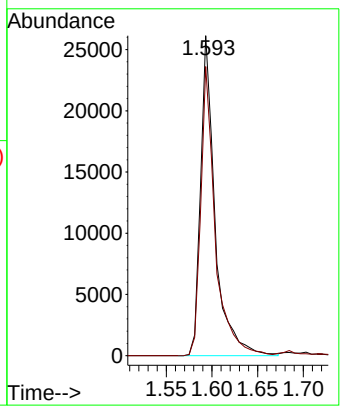


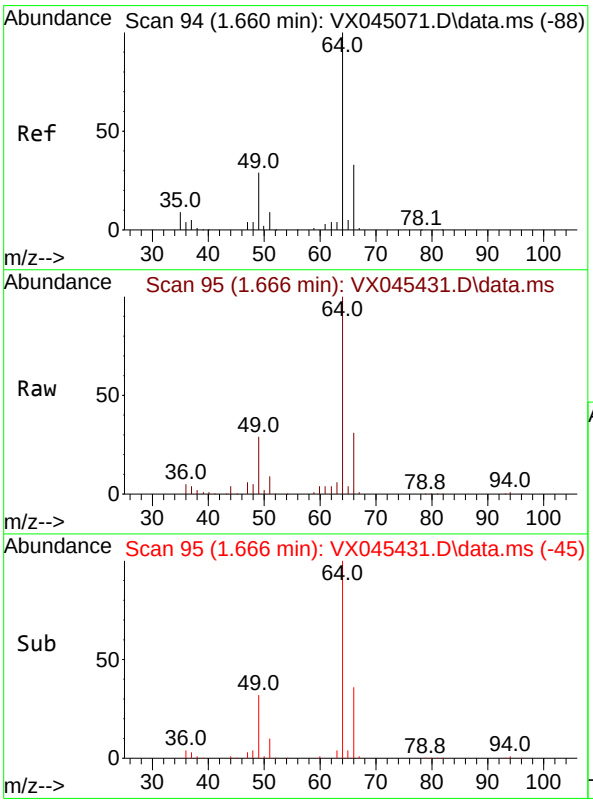
#5
Bromomethane
Concen: 57.542 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 28781

Ion	Ratio	Lower	Upper
94	100		
96	90.3	75.0	112.4

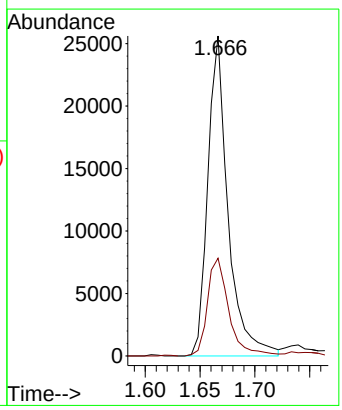


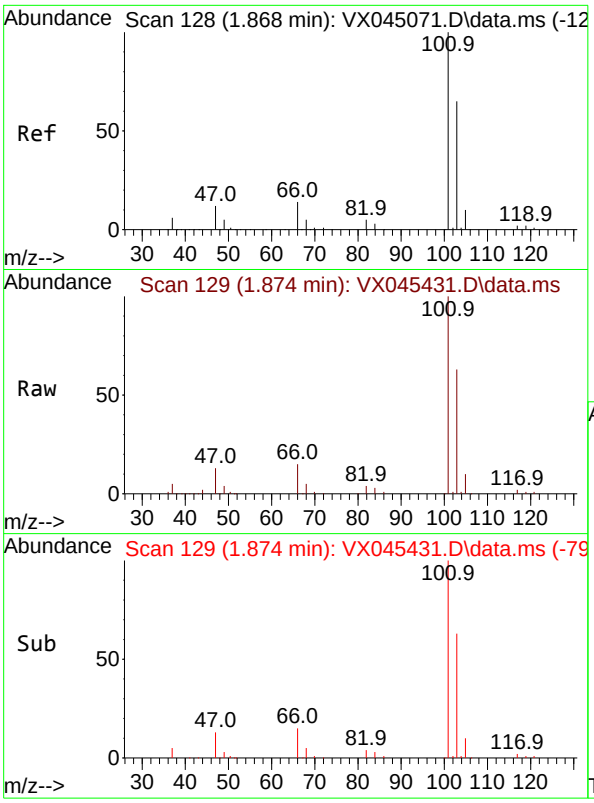


#6
Chloroethane
Concen: 55.901 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 64 Resp: 32807

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.7	40.1



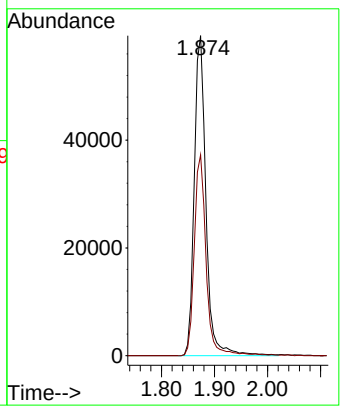


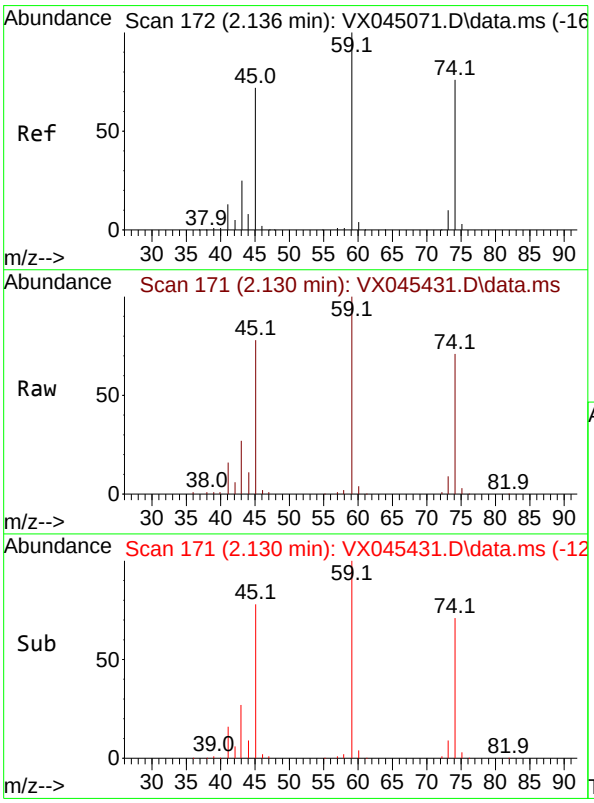
#7
Trichlorofluoromethane
Concen: 54.030 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 91006

Ion	Ratio	Lower	Upper
101	100		
103	62.7	52.1	78.1

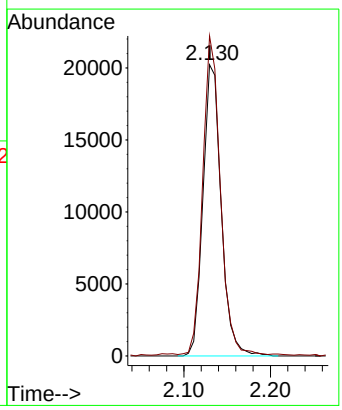


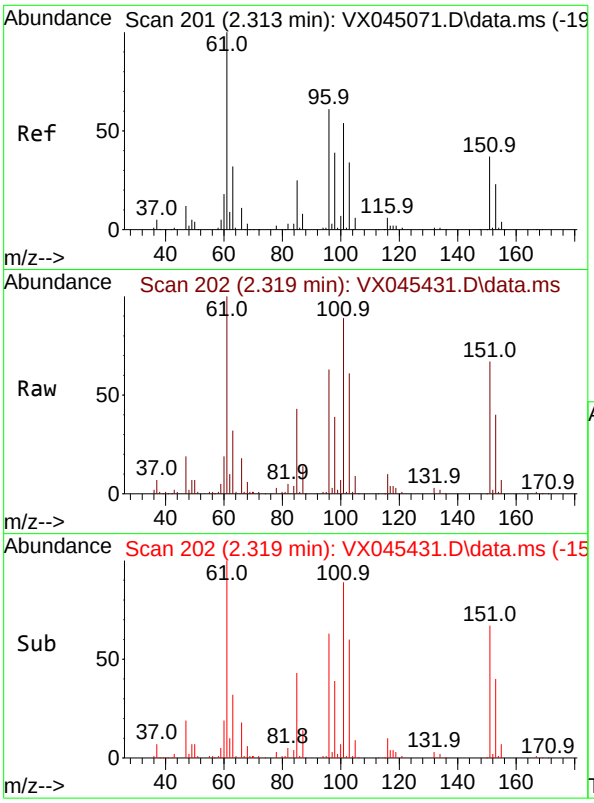


#8
Diethyl Ether
Concen: 44.955 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 74 Resp: 29617

Ion	Ratio	Lower	Upper
74	100		
45	105.3	51.5	154.5



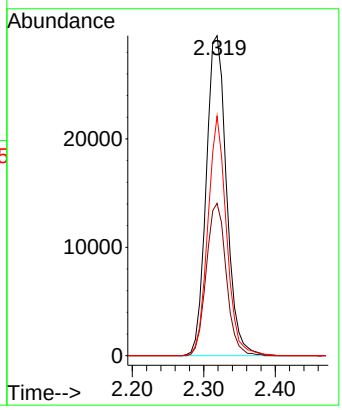


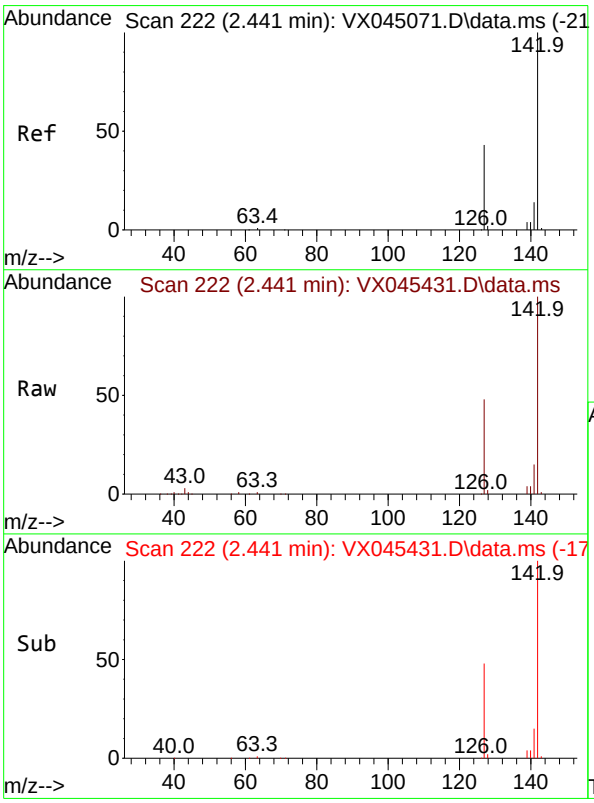
#9
1,1,2-Trichlorotrifluoroethane
Concen: 60.165 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 58221

Ion	Ratio	Lower	Upper
101	100		
85	47.0	36.2	54.4
151	68.9	56.4	84.6

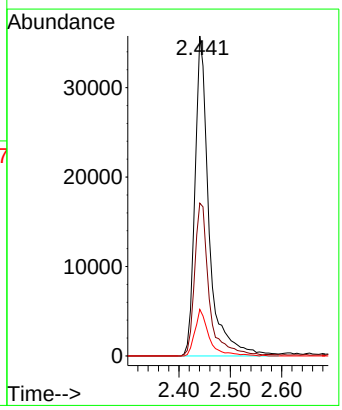


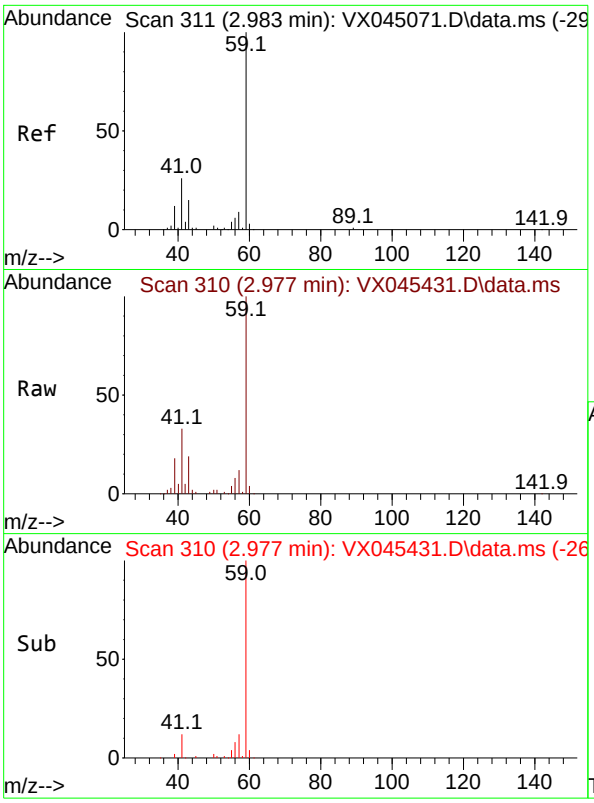


#10
Methyl Iodide
Concen: 56.637 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:142 Resp: 68492

Ion	Ratio	Lower	Upper
142	100		
127	49.3	35.4	53.2
141	14.6	11.6	17.4



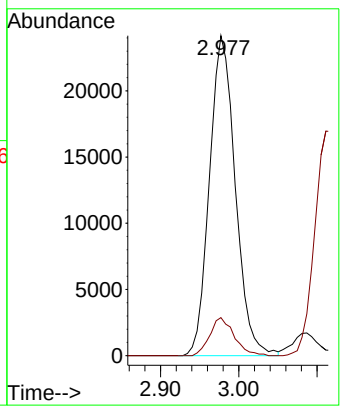


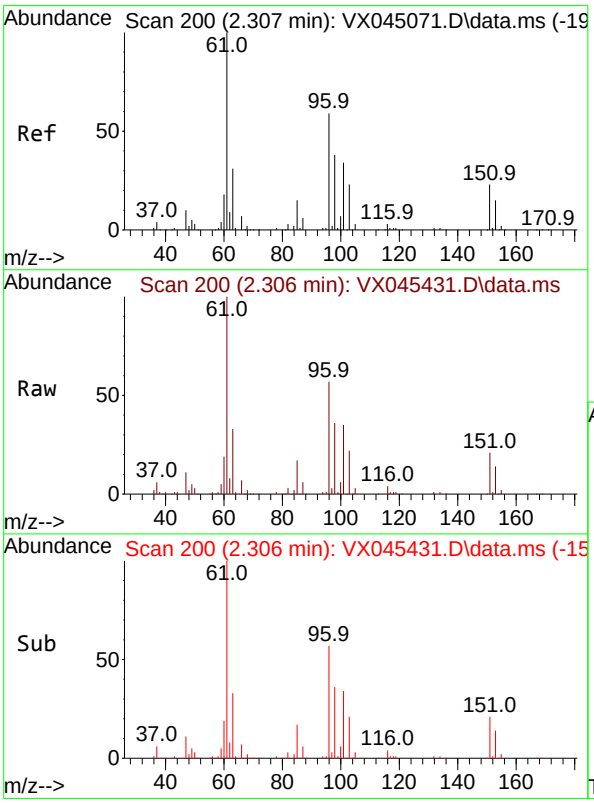
#11
Tert butyl alcohol
Concen: 221.277 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 55509

Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.8	11.8

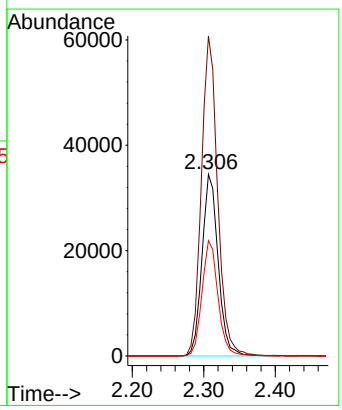


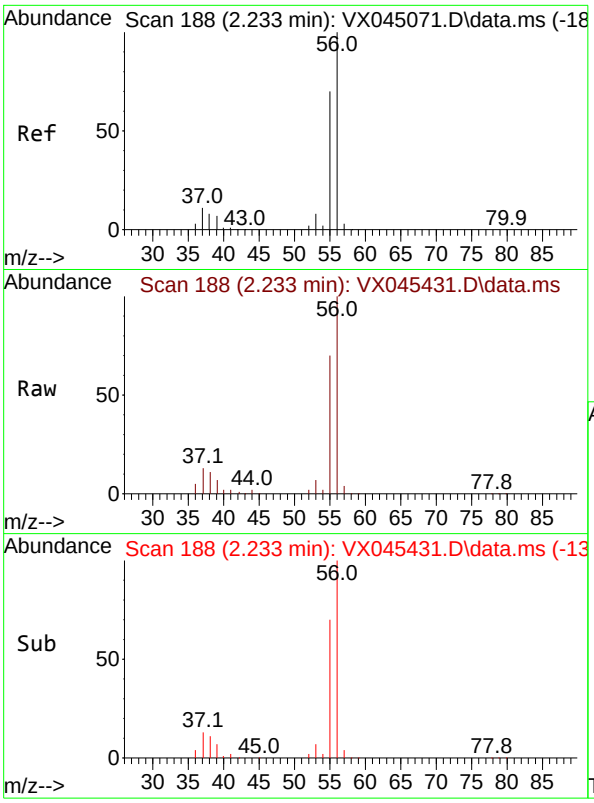


#12
1,1-Dichloroethene
Concen: 52.997 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 96 Resp: 54221

Ion	Ratio	Lower	Upper
96	100		
61	176.2	134.6	202.0
98	63.6	51.0	76.6



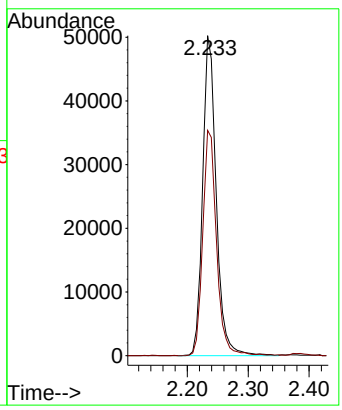


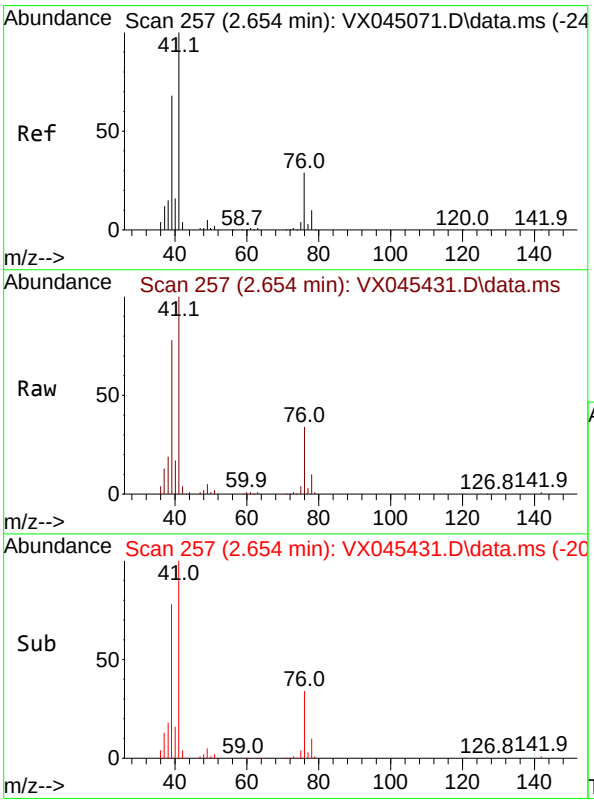
#13
Acrolein
Concen: 268.391 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 77829

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4

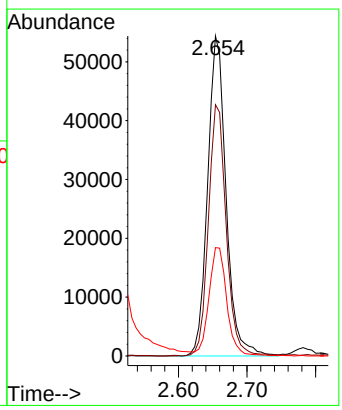


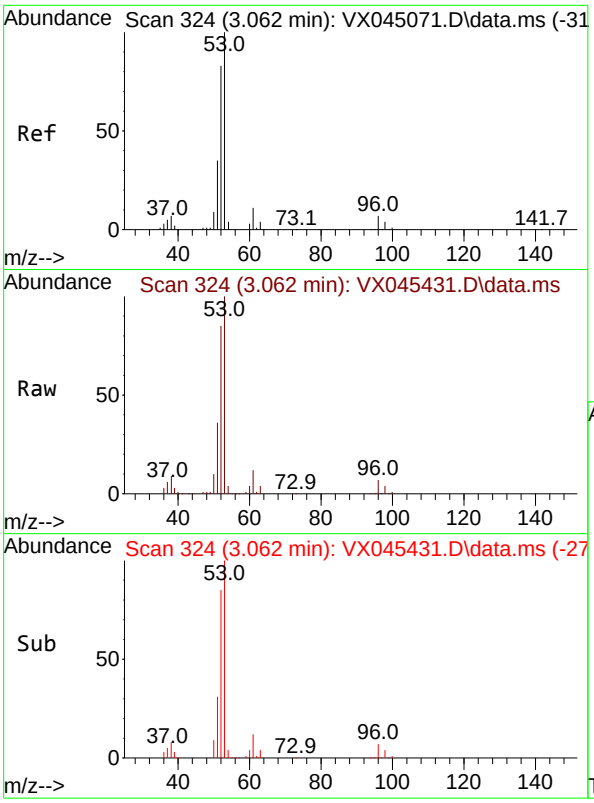


#14
Allyl chloride
Concen: 55.879 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 41 Resp: 101764

Ion	Ratio	Lower	Upper
41	100		
39	76.0	53.8	80.8
76	32.7	25.2	37.8



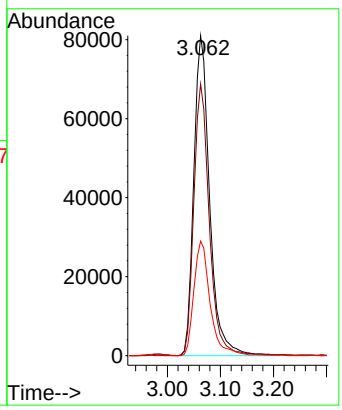


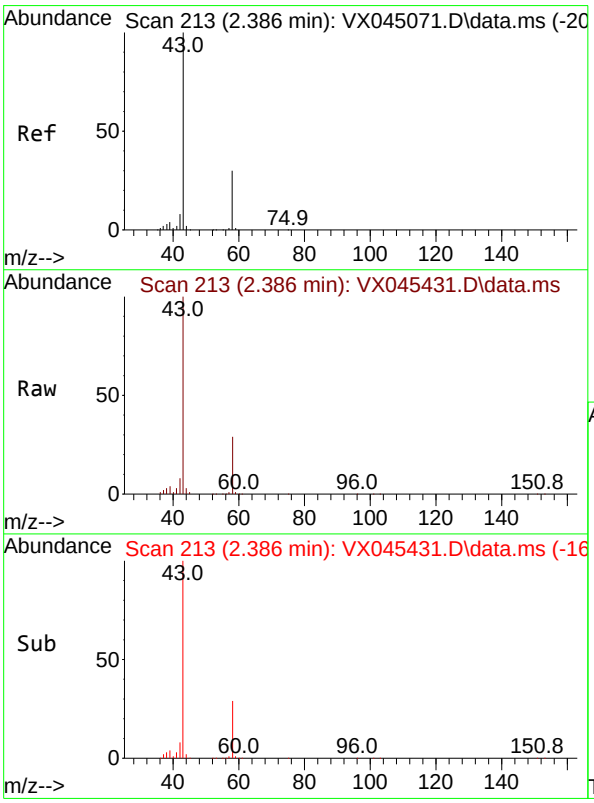
#15
Acrylonitrile
Concen: 250.432 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 168372

Ion	Ratio	Lower	Upper
53	100		
52	83.2	66.2	99.2
51	36.6	29.0	43.4

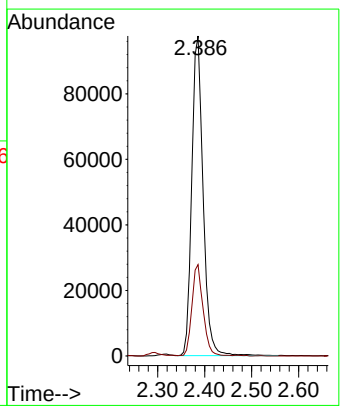


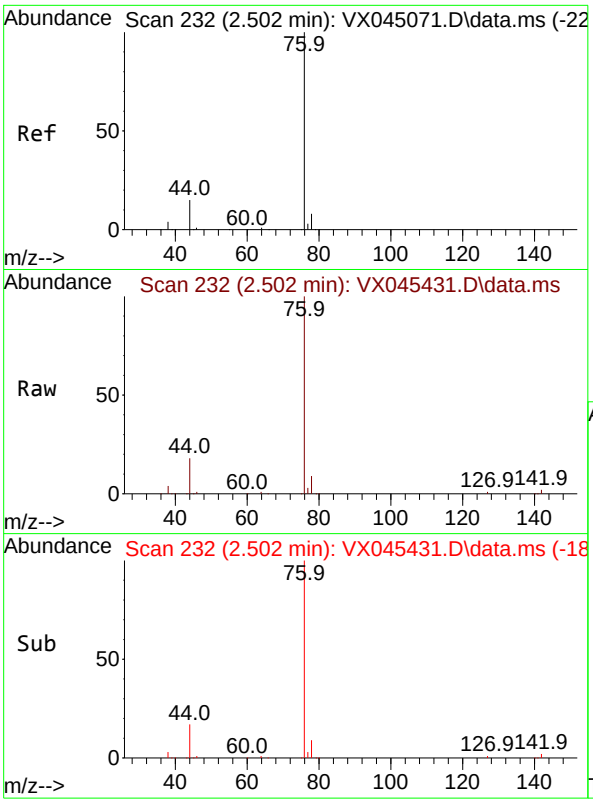


#16
Acetone
Concen: 267.080 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 164112

Ion	Ratio	Lower	Upper
43	100		
58	28.6	24.2	36.4



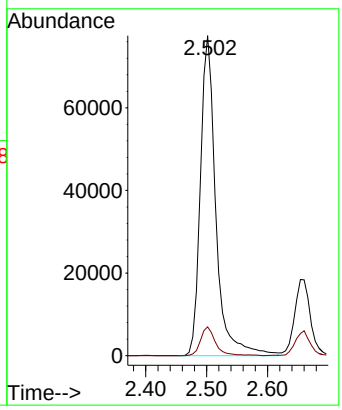


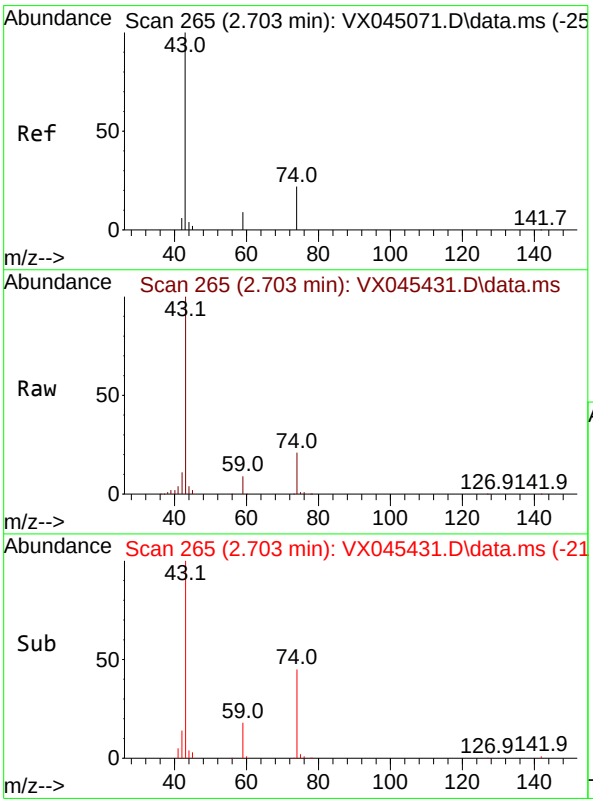
#17
Carbon Disulfide
Concen: 50.201 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 136796

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.6	9.8

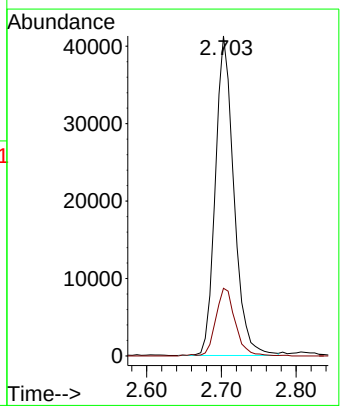


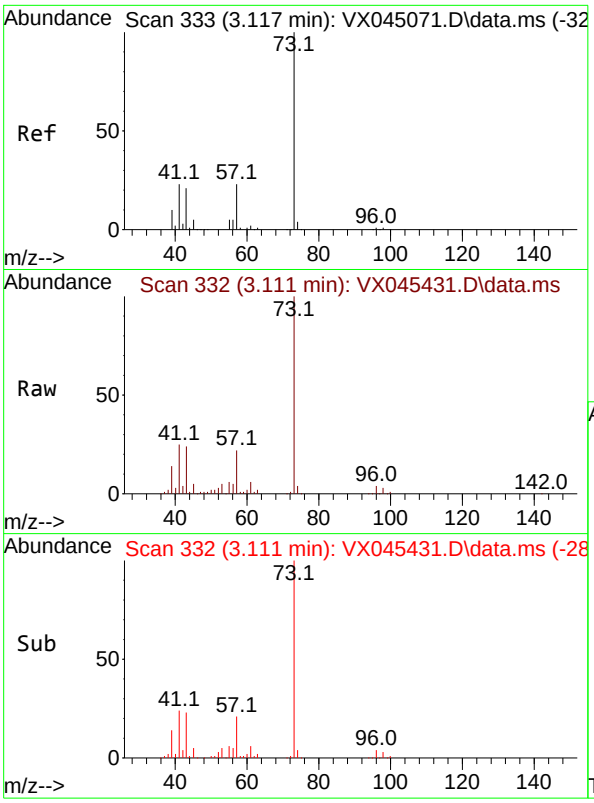


#18
Methyl Acetate
Concen: 48.227 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 71289

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.4	26.2



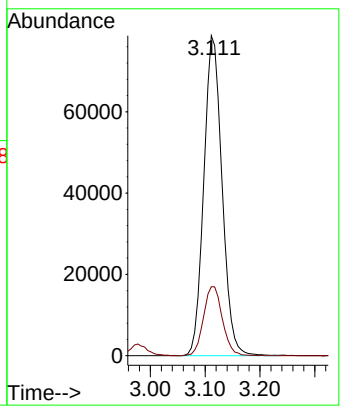


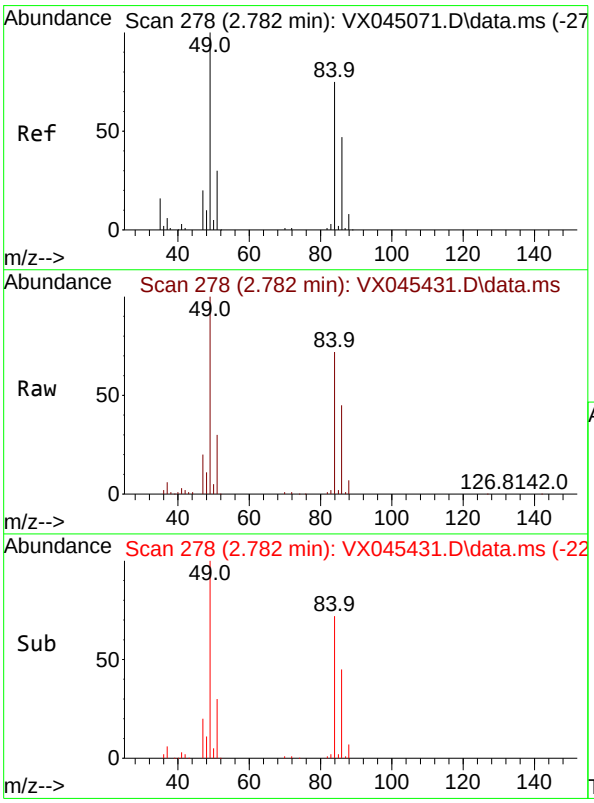
#19
Methyl tert-butyl Ether
Concen: 52.888 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 181535

Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.5	27.7

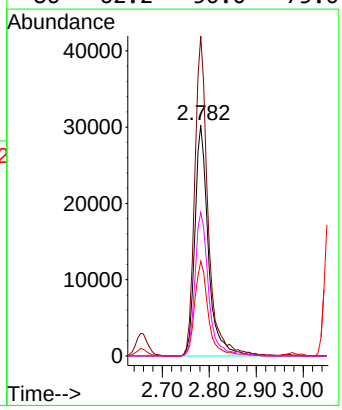


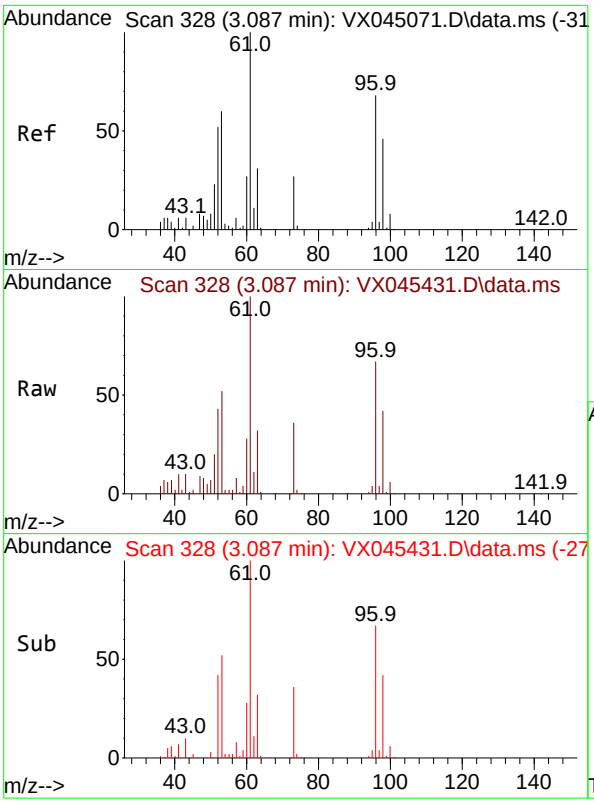


#20
Methylene Chloride
Concen: 49.864 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 84 Resp: 60694

Ion	Ratio	Lower	Upper
84	100		
49	138.7	106.5	159.7
51	41.1	32.1	48.1
86	62.2	50.0	75.0



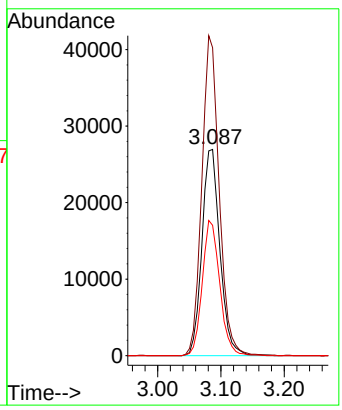


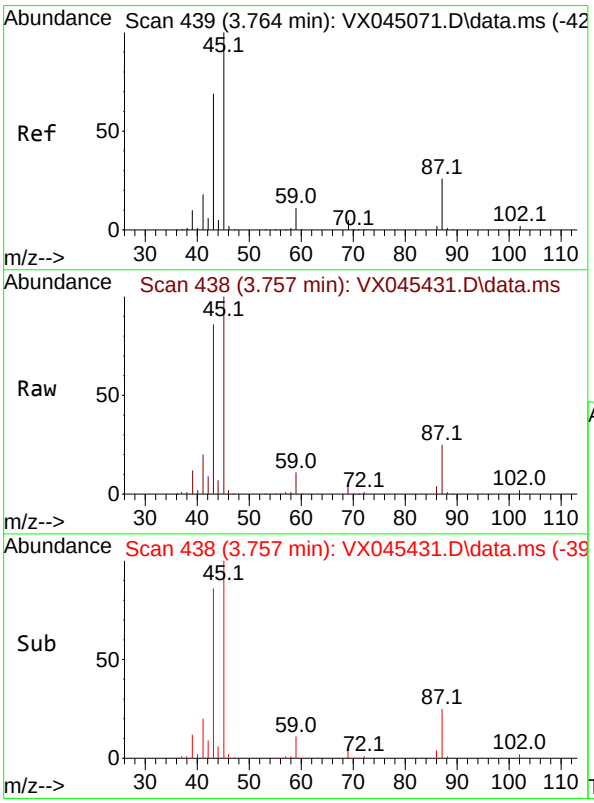
#21
trans-1,2-Dichloroethene
Concen: 52.781 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 53348

Ion	Ratio	Lower	Upper
96	100		
61	149.3	117.0	175.4
98	63.3	53.4	80.2

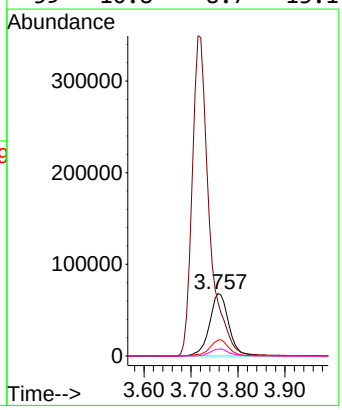


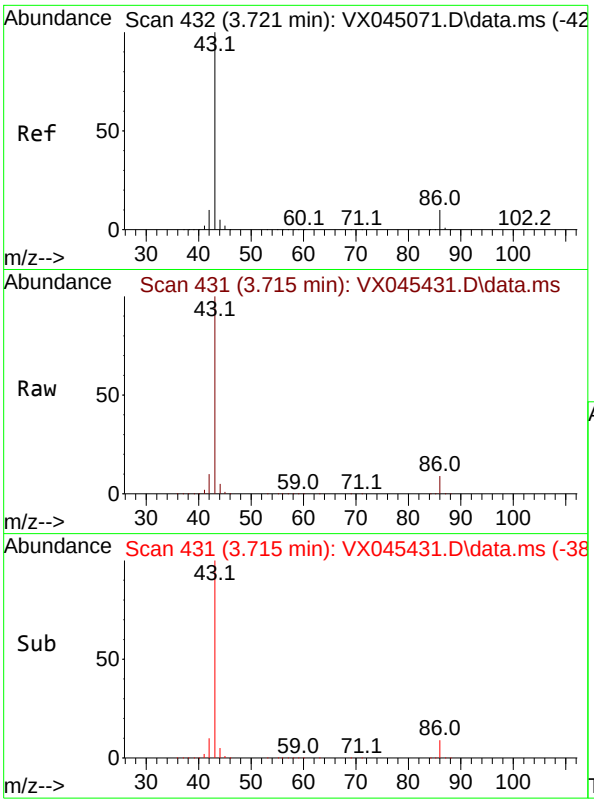


#22
Diisopropyl ether
Concen: 52.066 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 45 Resp: 192840

Ion	Ratio	Lower	Upper
45	100		
43	85.5	54.9	82.3#
87	25.3	21.0	31.4
59	10.8	8.7	13.1



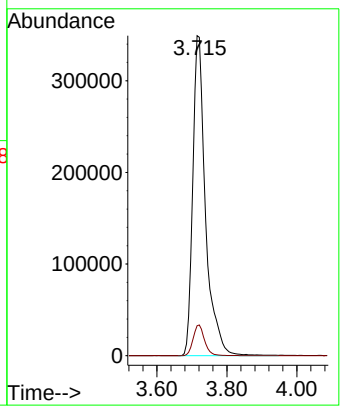


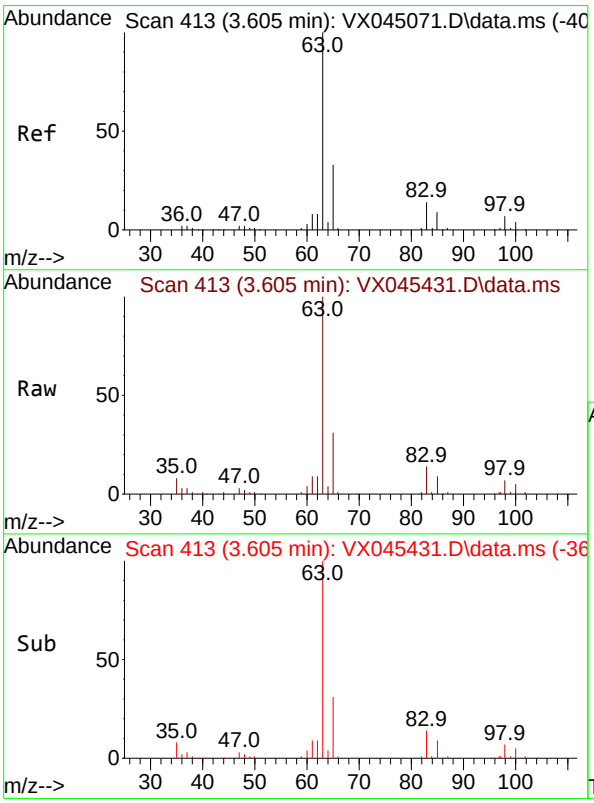
#23
Vinyl Acetate
Concen: 286.525 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 885598

Ion	Ratio	Lower	Upper
43	100		
86	9.4	8.1	12.1

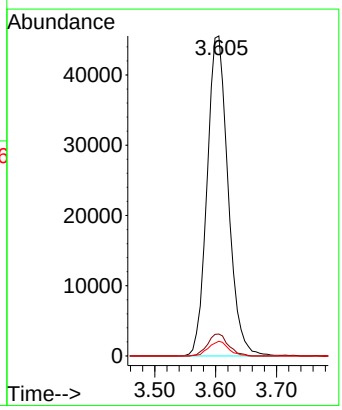


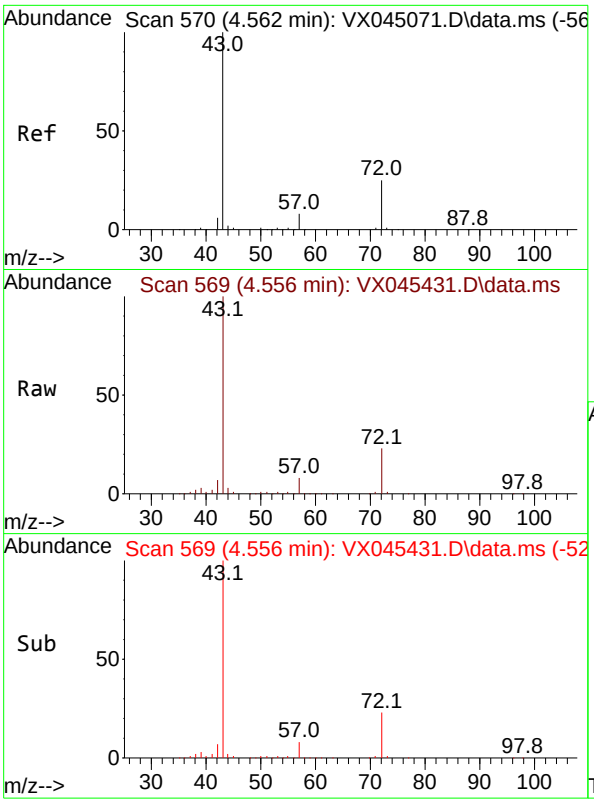


#24
1,1-Dichloroethane
Concen: 52.589 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 63 Resp: 109159

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.6	2.1	6.5



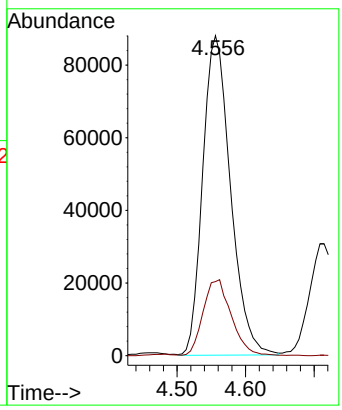


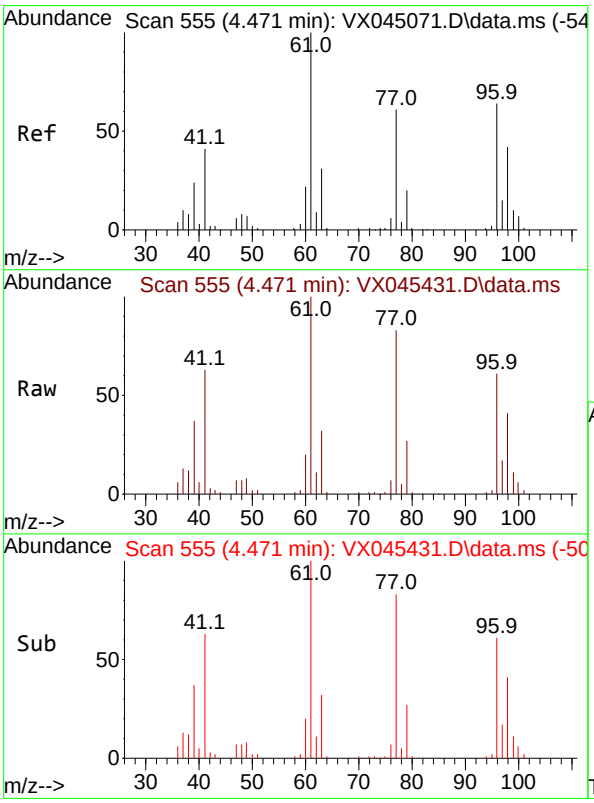
#25
2-Butanone
Concen: 268.225 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 248088

Ion	Ratio	Lower	Upper
43	100		
72	23.1	20.0	30.0

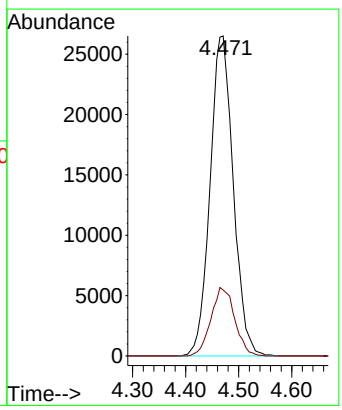


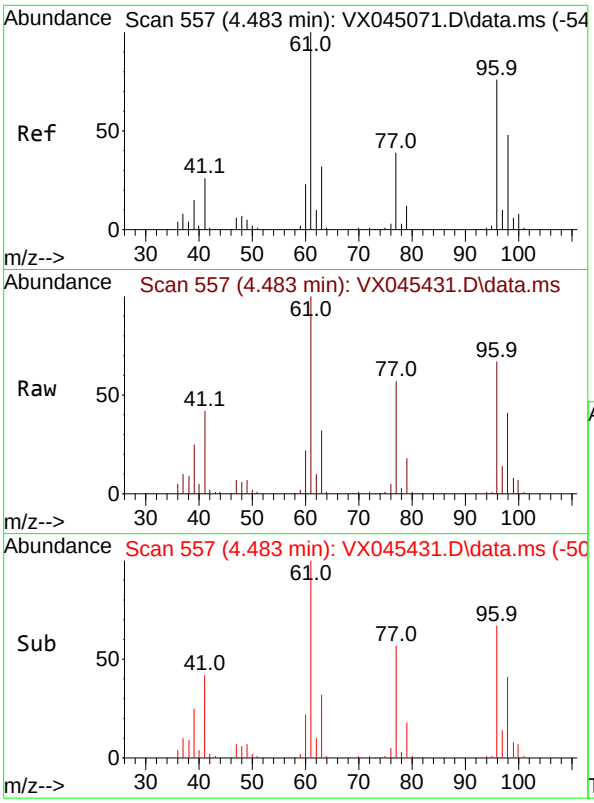


#26
2,2-Dichloropropane
Concen: 82.834 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 77 Resp: 80649

Ion	Ratio	Lower	Upper
77	100		
97	21.8	12.4	37.0



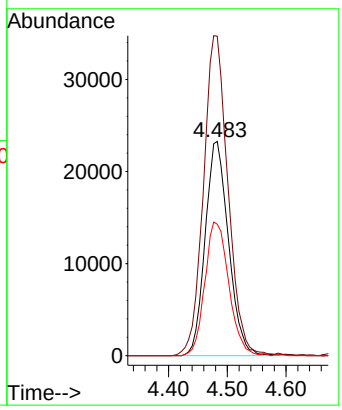


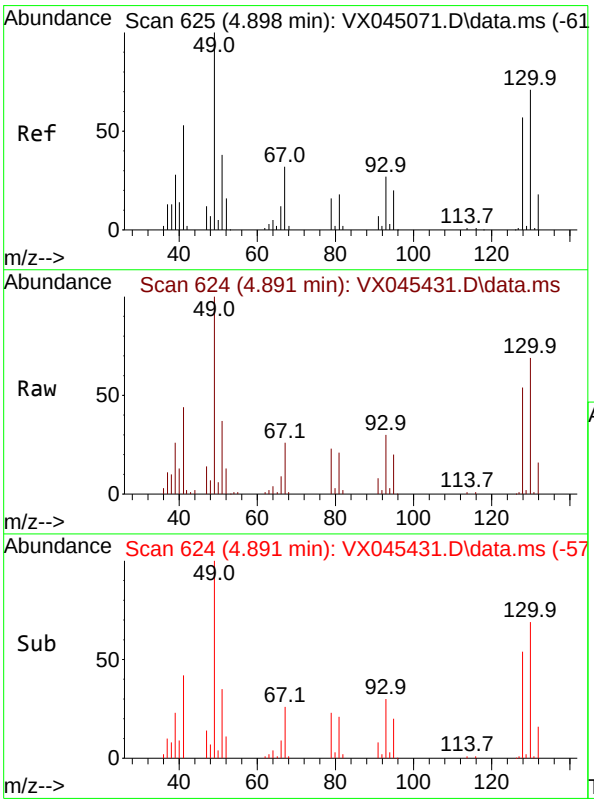
#27
cis-1,2-Dichloroethene
Concen: 51.554 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 64325

Ion	Ratio	Lower	Upper
96	100		
61	156.5	0.0	283.2
98	64.0	0.0	128.0

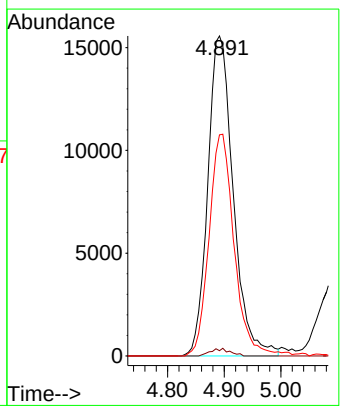


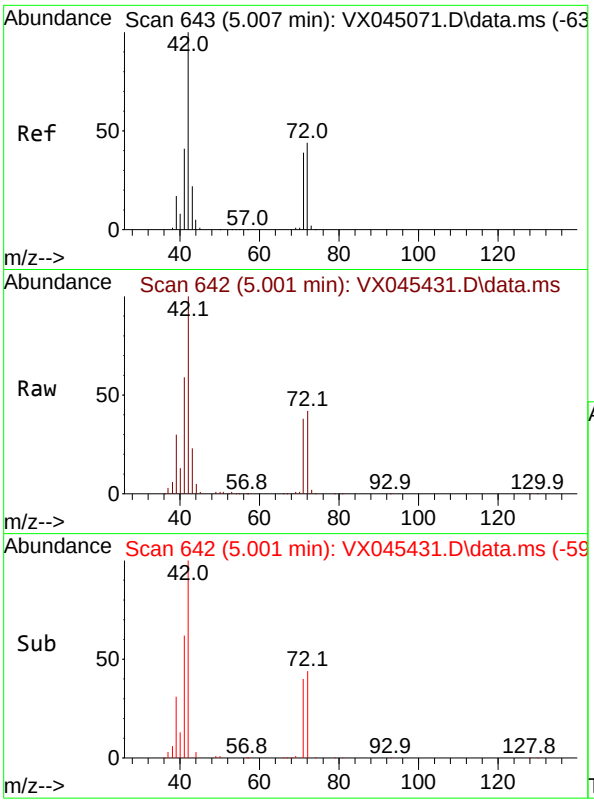


#28
Bromochloromethane
Concen: 49.141 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 49 Resp: 48619

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	68.3	56.1	84.1



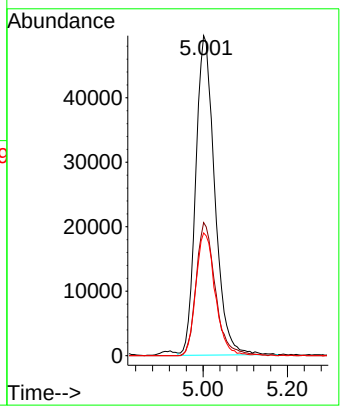


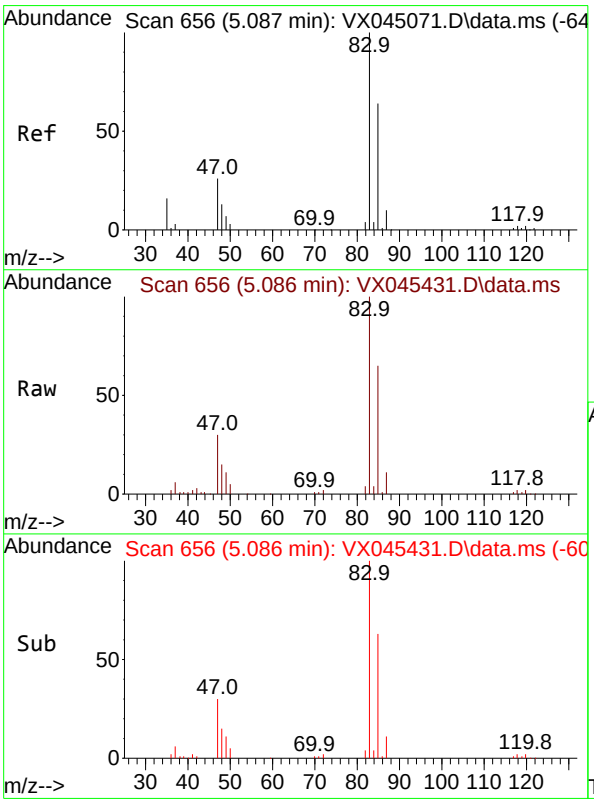
#29
Tetrahydrofuran
Concen: 250.594 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 155653

Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.1	51.1
71	38.9	31.4	47.0

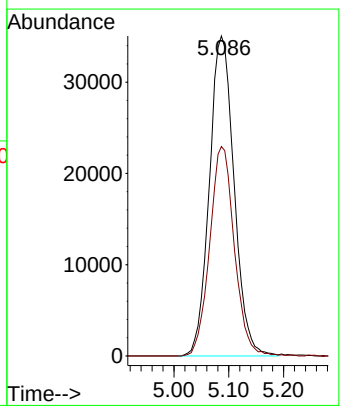


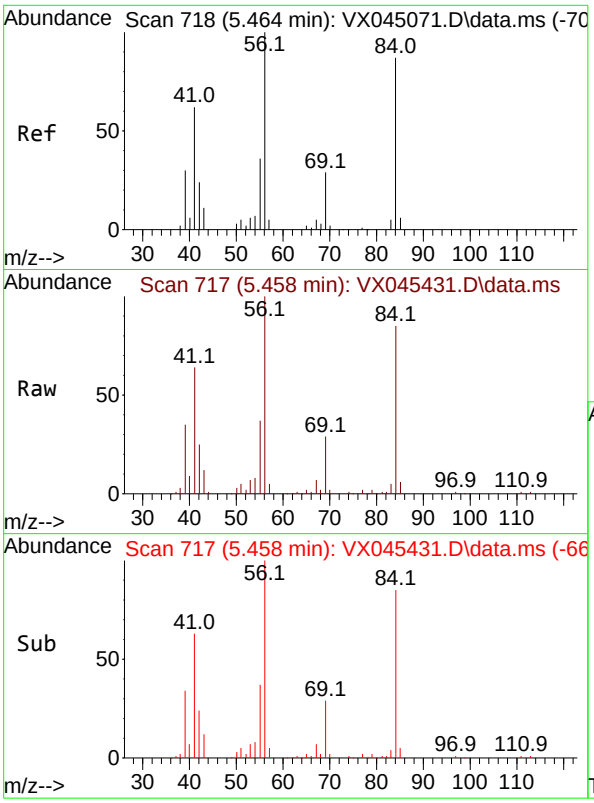


#30
Chloroform
Concen: 53.166 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 83 Resp: 109652

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.4	77.2



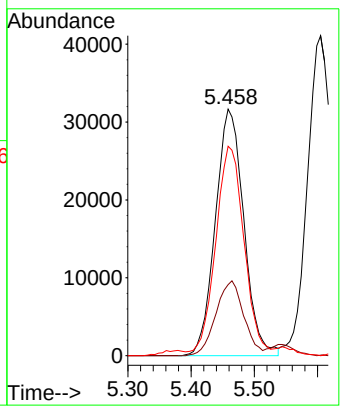


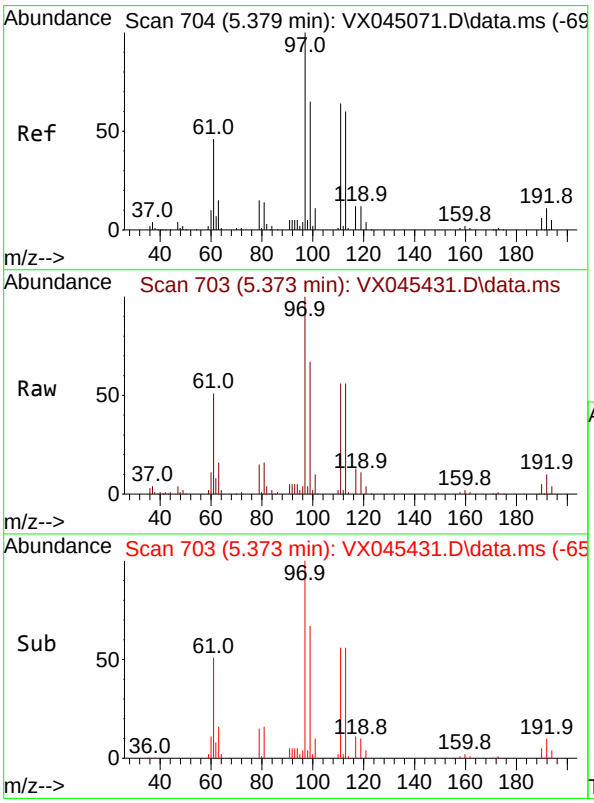
#31
Cyclohexane
Concen: 54.912 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 98942

Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	82.8	69.4	104.2

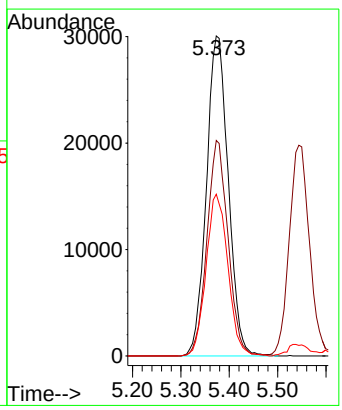


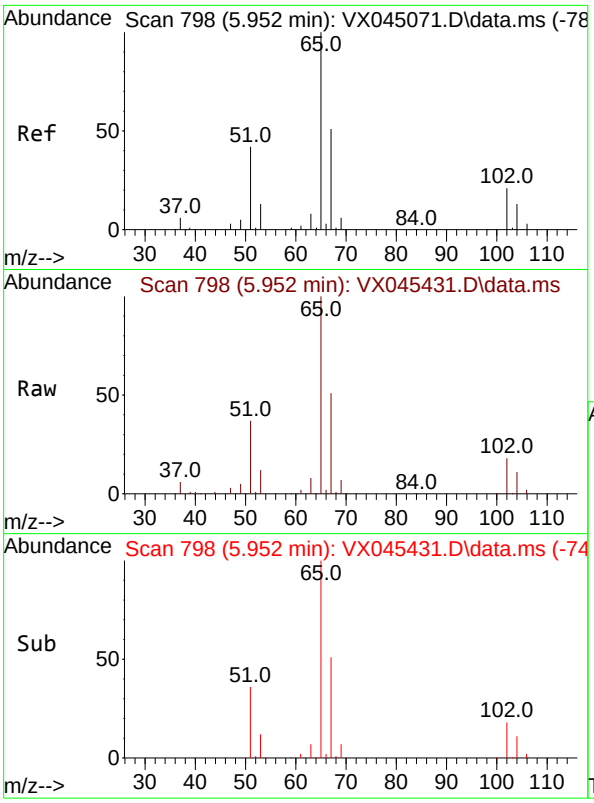


#32
1,1,1-Trichloroethane
Concen: 56.559 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 97 Resp: 94214

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.6	77.4
61	50.8	38.4	57.6



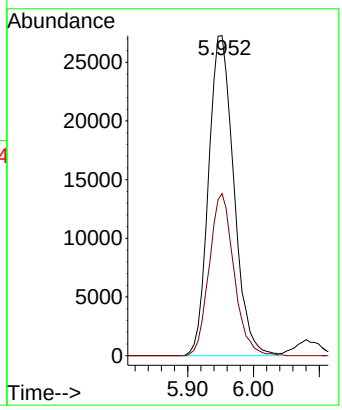


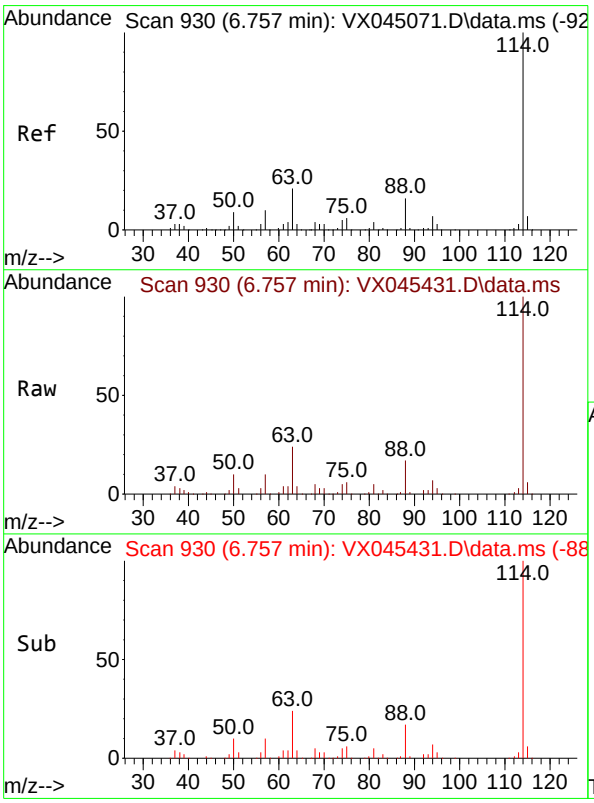
#33
1,2-Dichloroethane-d4
Concen: 55.062 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 72923

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	106.2

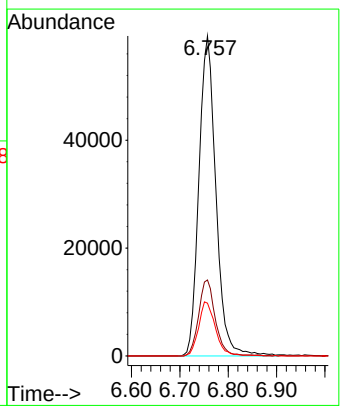


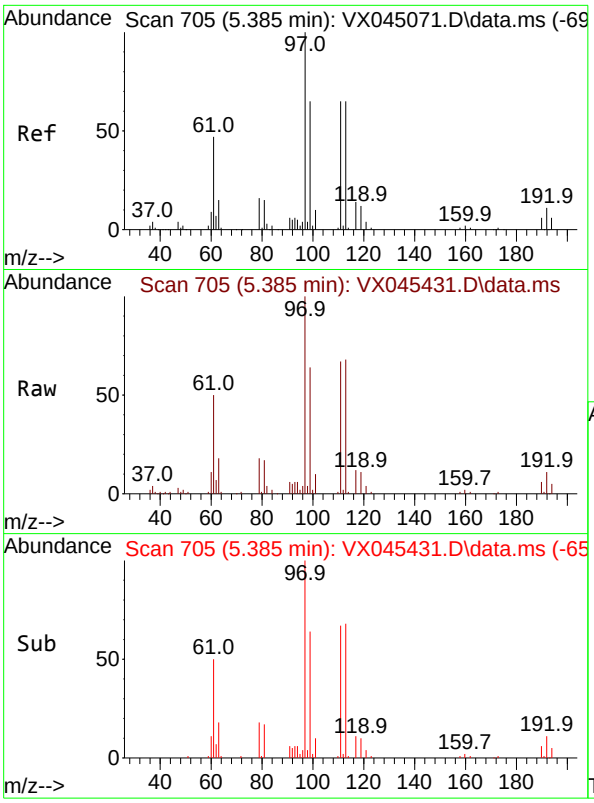


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:114 Resp: 144945

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	41.8
88	16.5	0.0	32.8



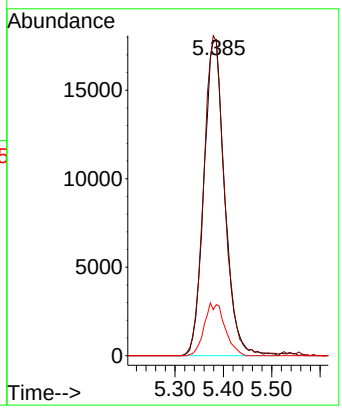


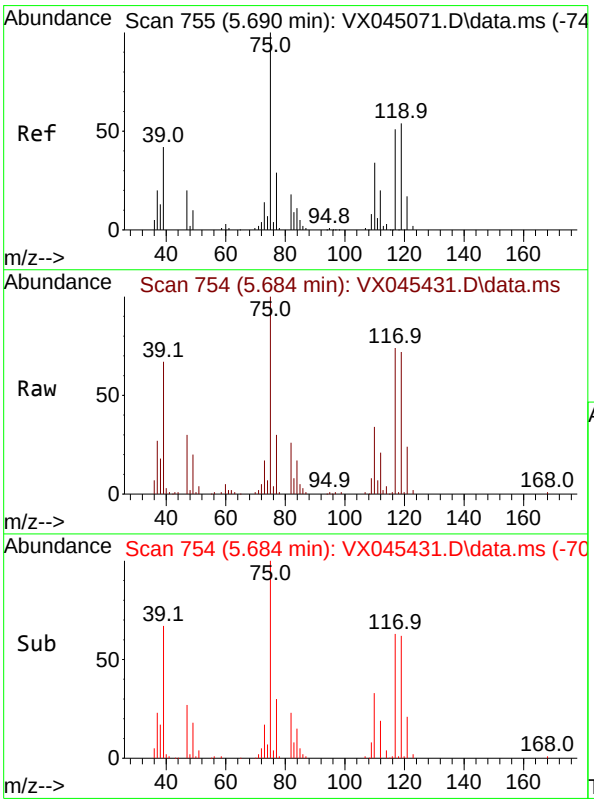
#35
Dibromofluoromethane
Concen: 54.975 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 53282

Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.8	122.6
192	16.6	14.3	21.5

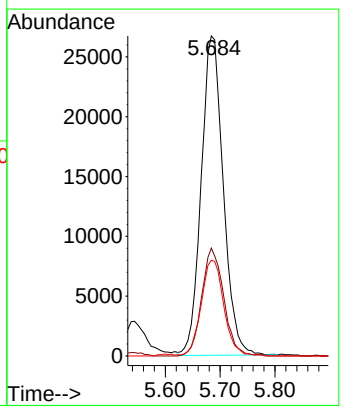


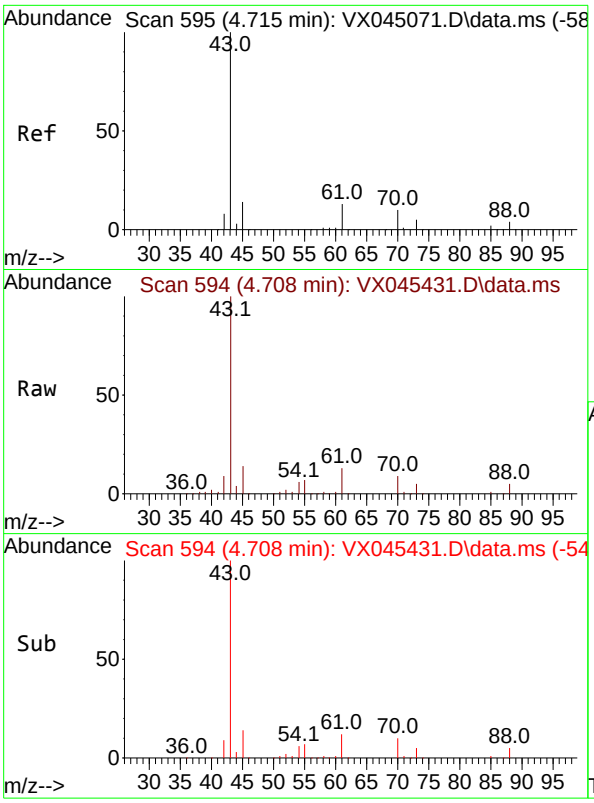


#36
1,1-Dichloropropene
Concen: 56.139 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 74619

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.9	50.6
77	30.7	24.5	36.7



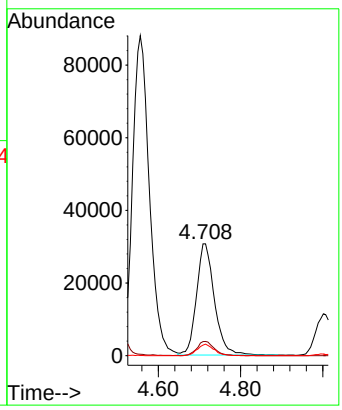


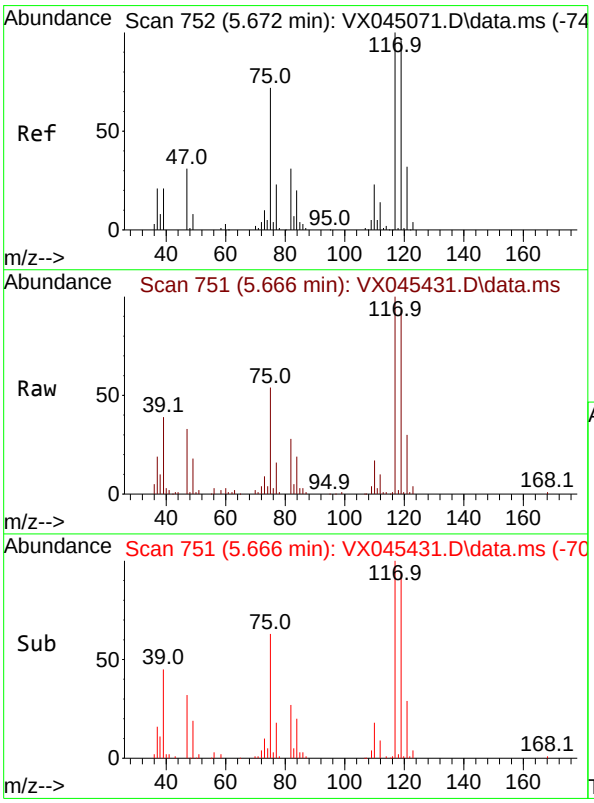
#37
Ethyl Acetate
Concen: 54.162 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 92765

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.8	16.2
70	9.6	7.7	11.5

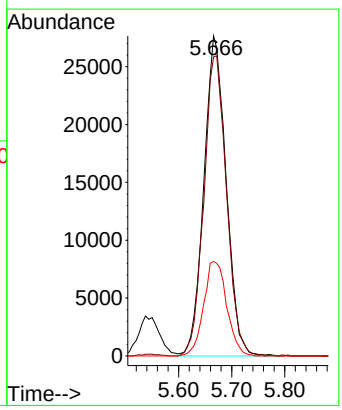


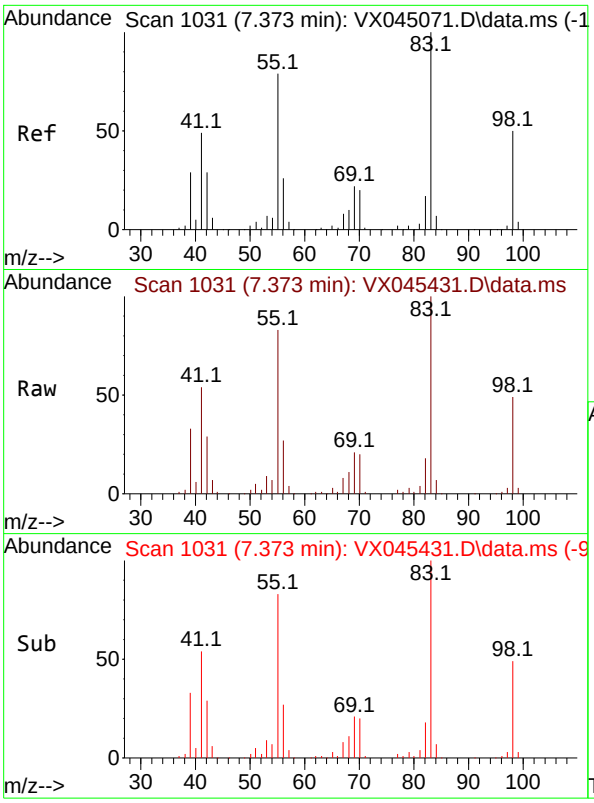


#38
Carbon Tetrachloride
Concen: 59.885 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:117 Resp: 80811

Ion	Ratio	Lower	Upper
117	100		
119	93.4	76.7	115.1
121	29.6	25.5	38.3



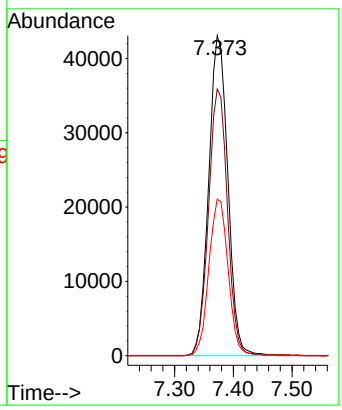


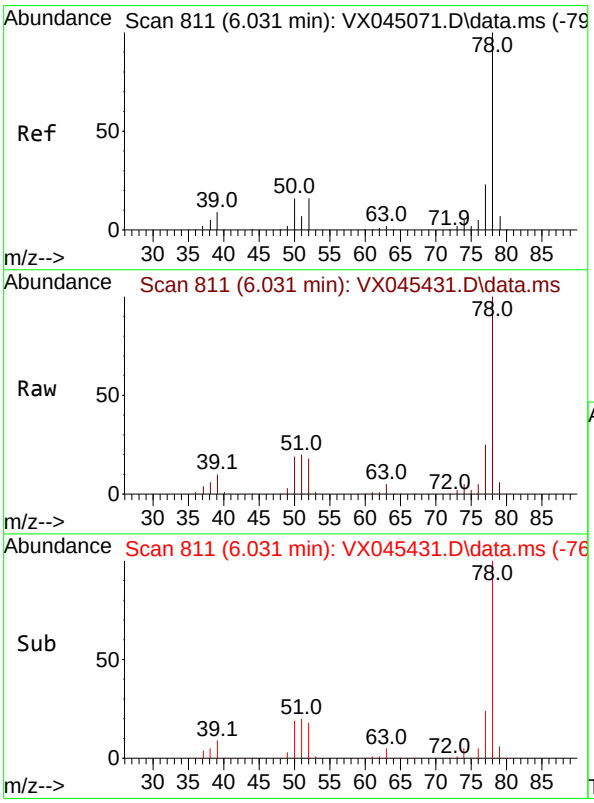
#39
Methylcyclohexane
Concen: 61.319 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 97660

Ion	Ratio	Lower	Upper
83	100		
55	83.3	63.0	94.4
98	48.9	39.7	59.5

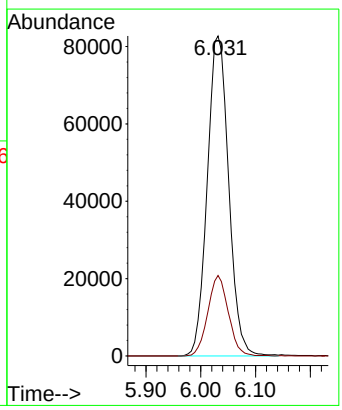


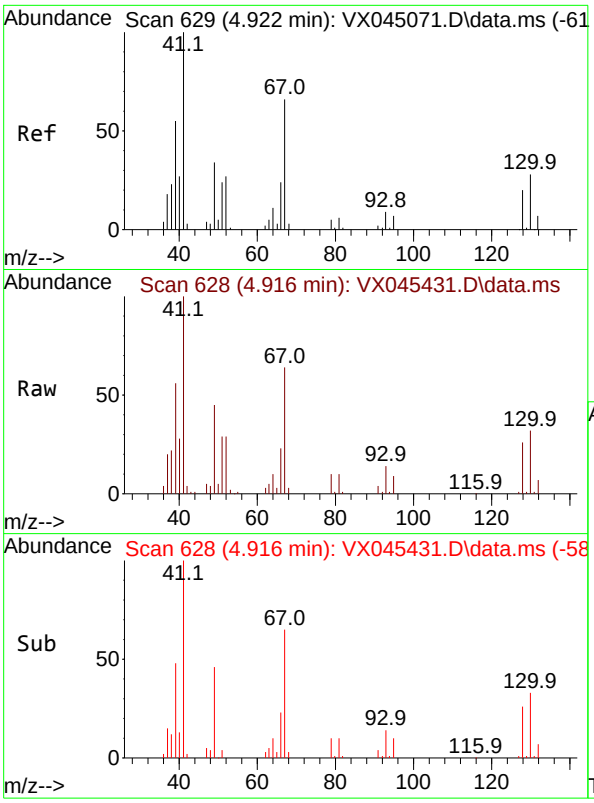


#40
Benzene
Concen: 53.428 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 78 Resp: 224248

Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.8	28.2



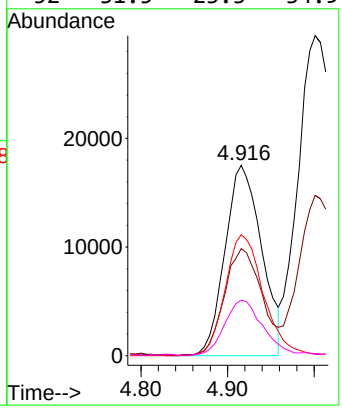


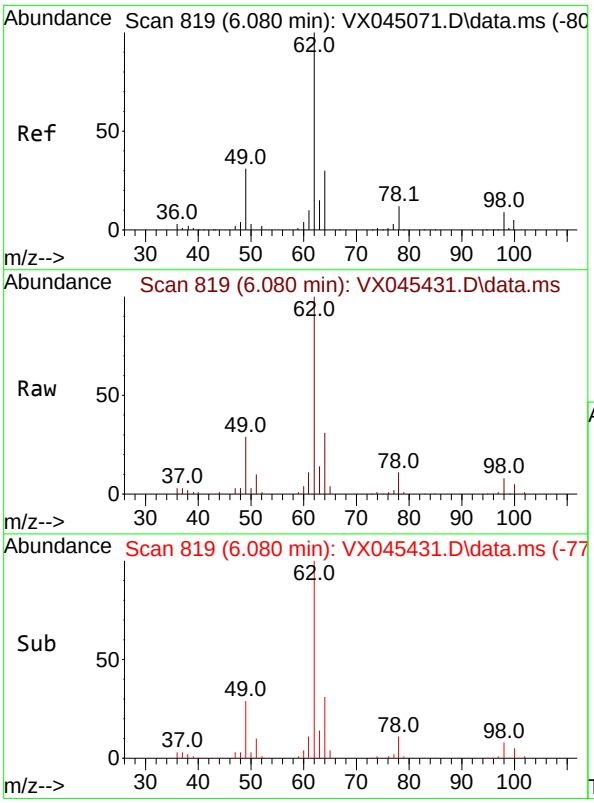
#41
Methacrylonitrile
Concen: 55.689 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 51574

Ion	Ratio	Lower	Upper
41	100		
39	57.7	44.6	67.0
67	66.2	53.9	80.9
52	31.5	23.3	34.9

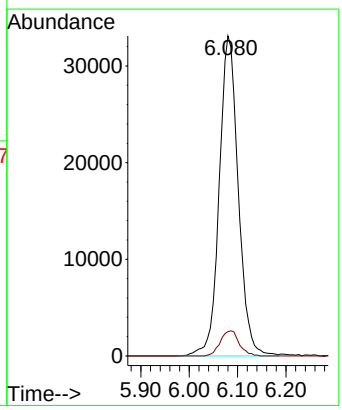


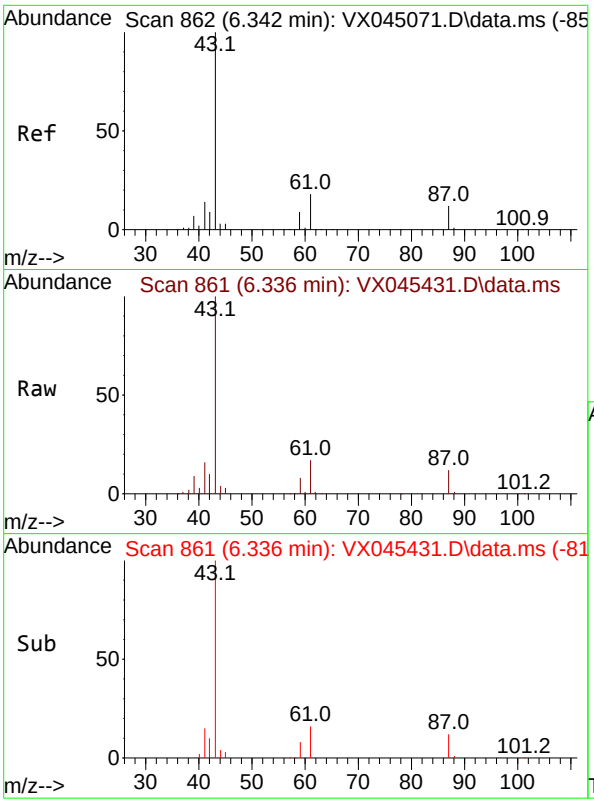


#42
1,2-Dichloroethane
Concen: 59.882 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 62 Resp: 90507

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2



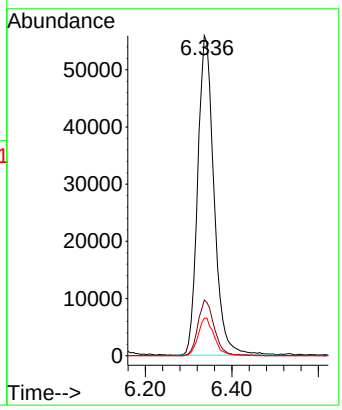


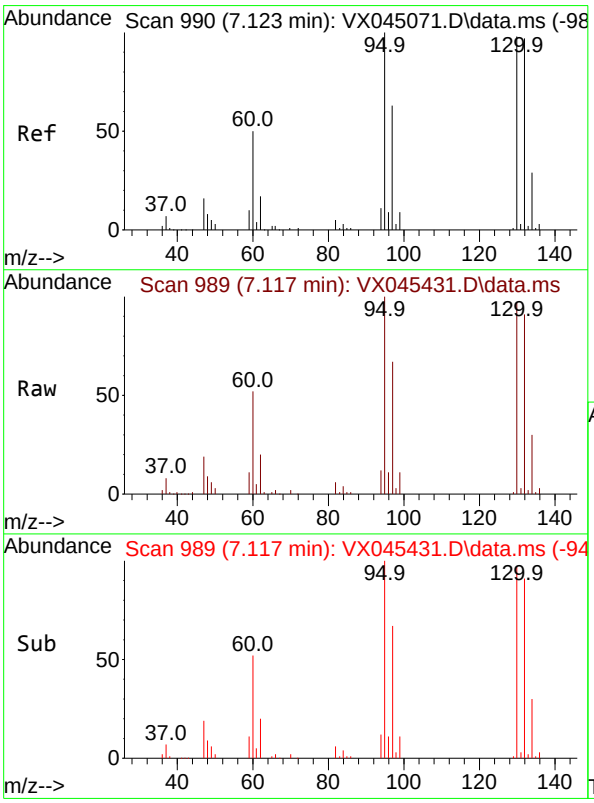
#43
Isopropyl Acetate
Concen: 57.673 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 146064

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.9	22.3
87	11.6	9.4	14.2

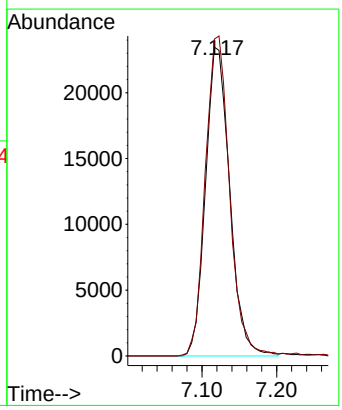


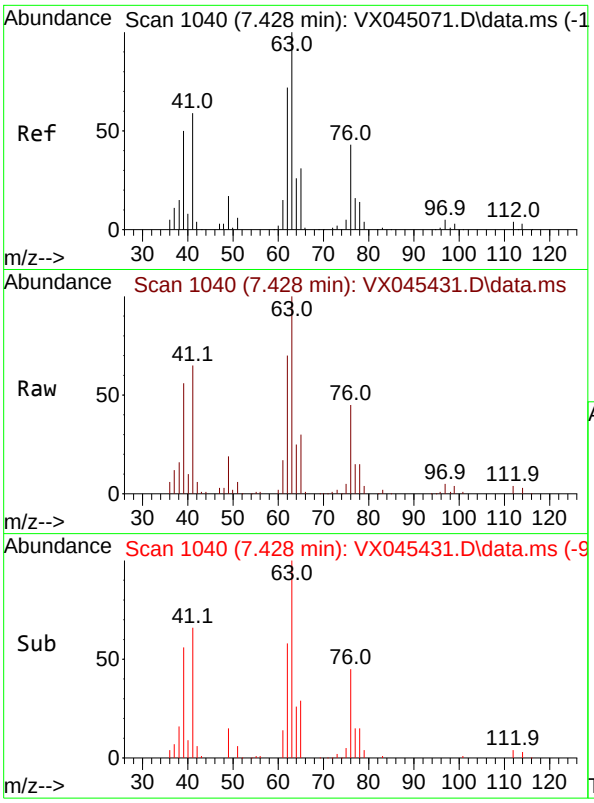


#44
Trichloroethene
Concen: 53.617 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:130 Resp: 52842

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	205.0



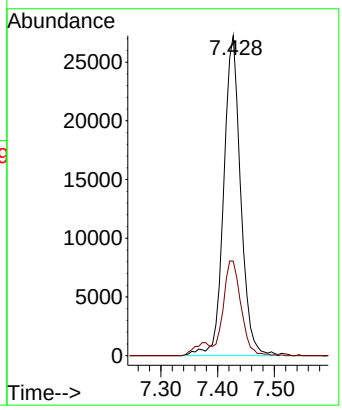


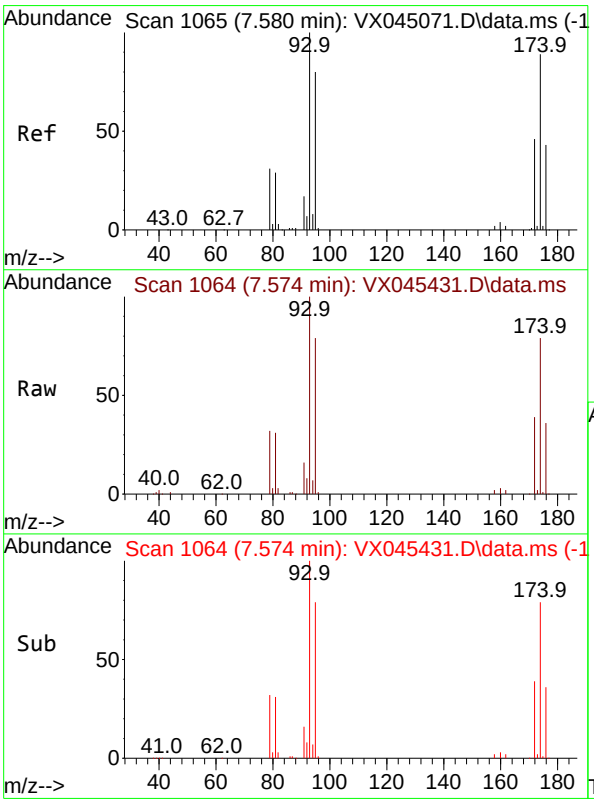
#45
1,2-Dichloropropane
Concen: 52.440 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 56590

Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.7	37.1

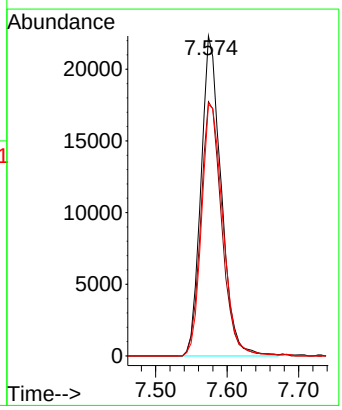


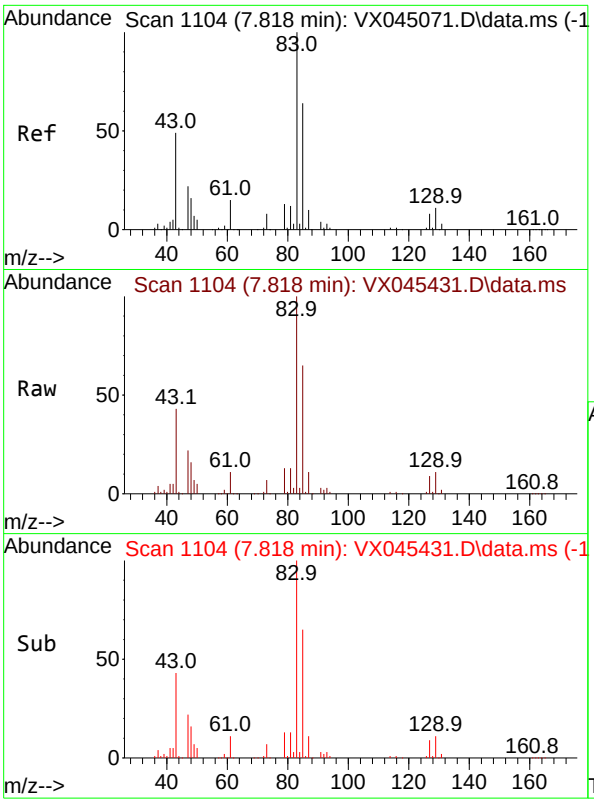


#46
Dibromomethane
Concen: 57.458 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 93 Resp: 43826

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.8	98.8
174	82.8	72.2	108.2



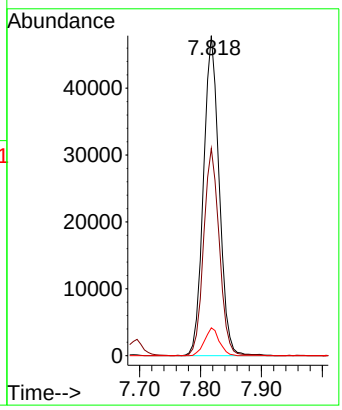


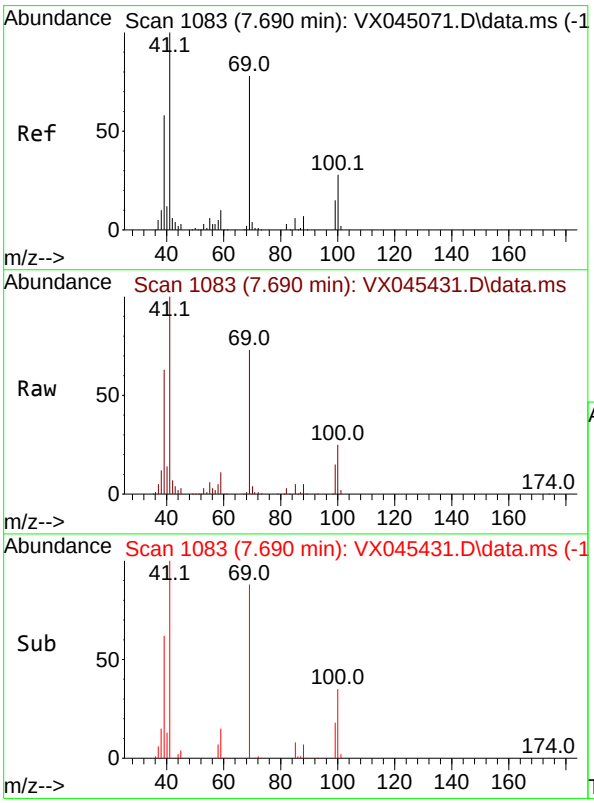
#47
Bromodichloromethane
Concen: 57.282 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 85701

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.1	76.7
127	8.7	6.4	9.6

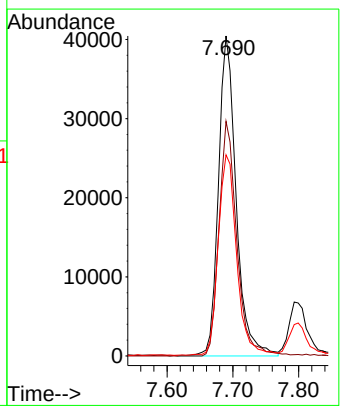


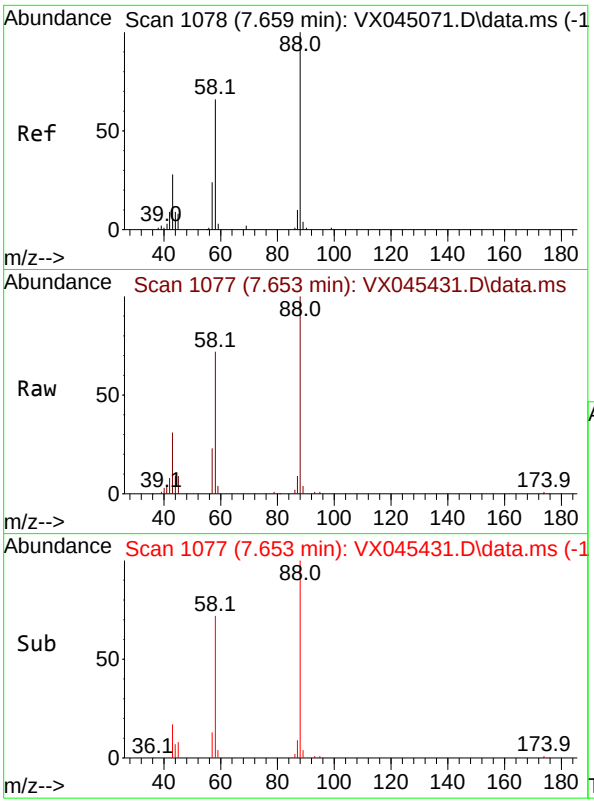


#48
Methyl methacrylate
Concen: 59.672 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 41 Resp: 75819

Ion	Ratio	Lower	Upper
41	100		
69	73.6	63.0	94.6
39	65.3	47.5	71.3



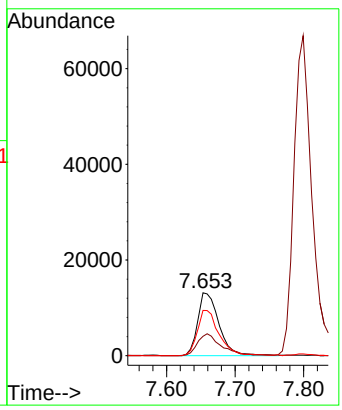


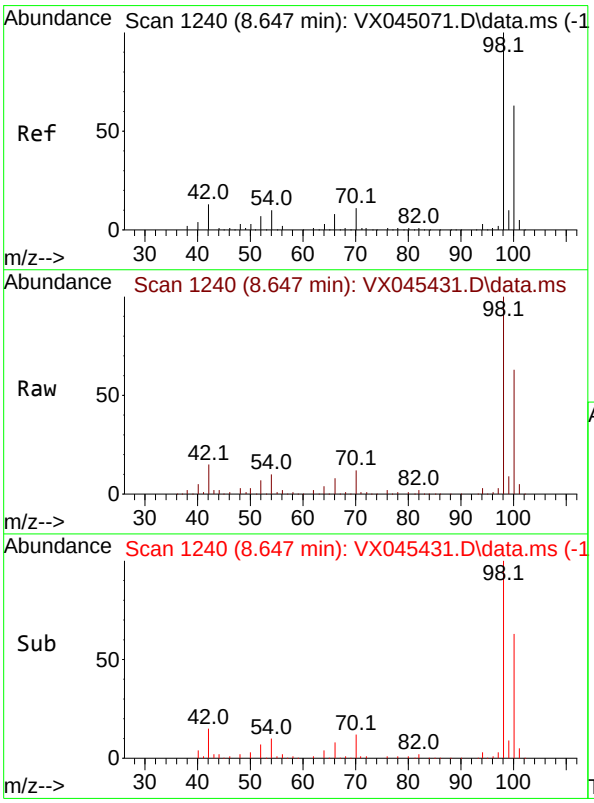
#49
1,4-Dioxane
Concen: 1056.380 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28313

Ion	Ratio	Lower	Upper
88	100		
43	39.5	28.7	43.1
58	74.1	55.8	83.8

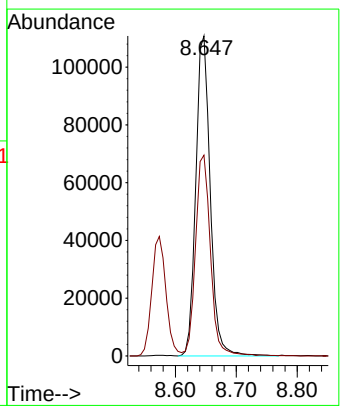


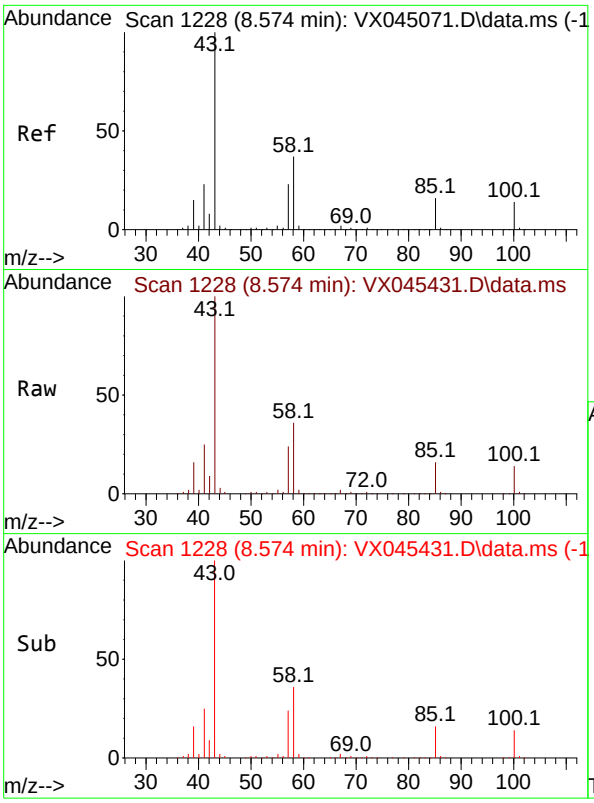


#50
Toluene-d8
Concen: 51.975 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 98 Resp: 182626

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0



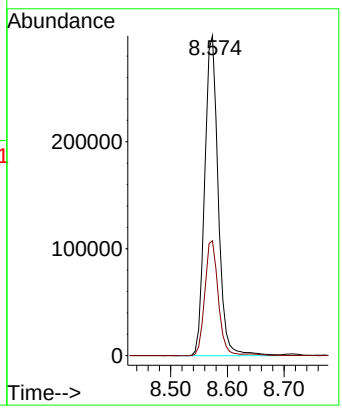


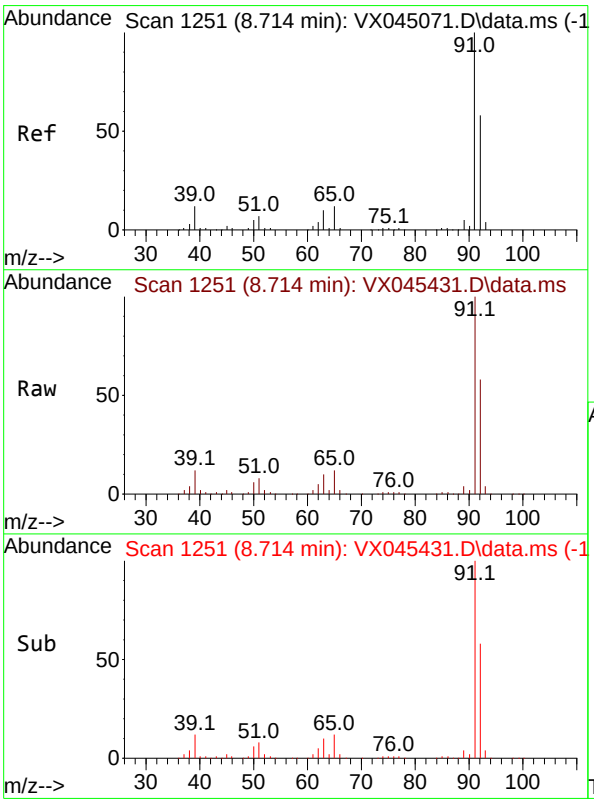
#51
4-Methyl-2-Pentanone
Concen: 290.090 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 493305

Ion	Ratio	Lower	Upper
43	100		
58	35.8	29.2	43.8

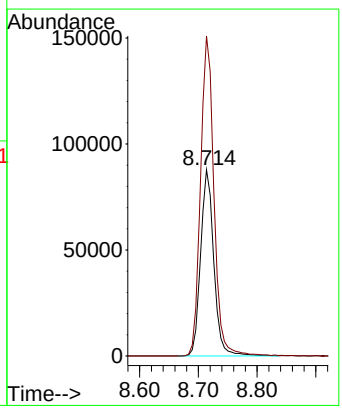


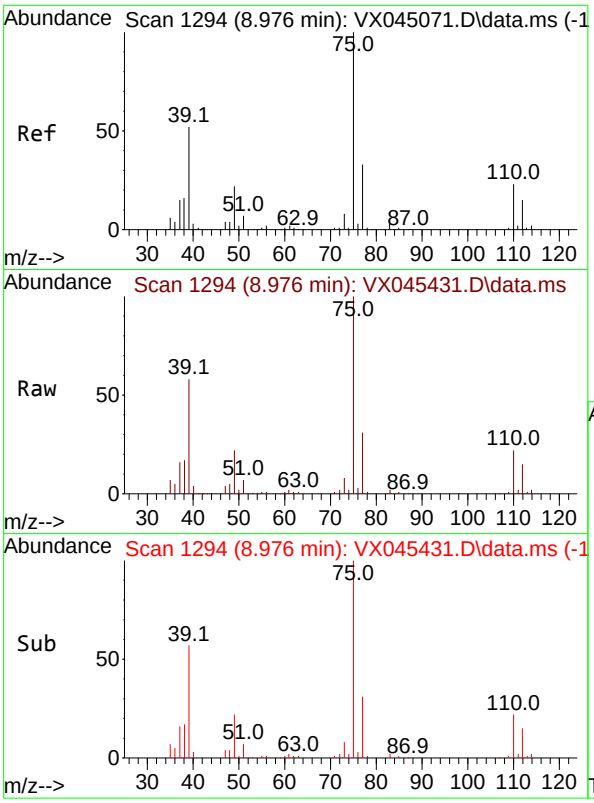


#52
Toluene
Concen: 55.590 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 92 Resp: 136895

Ion	Ratio	Lower	Upper
92	100		
91	175.3	138.9	208.3



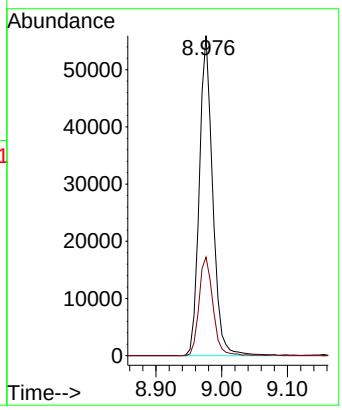


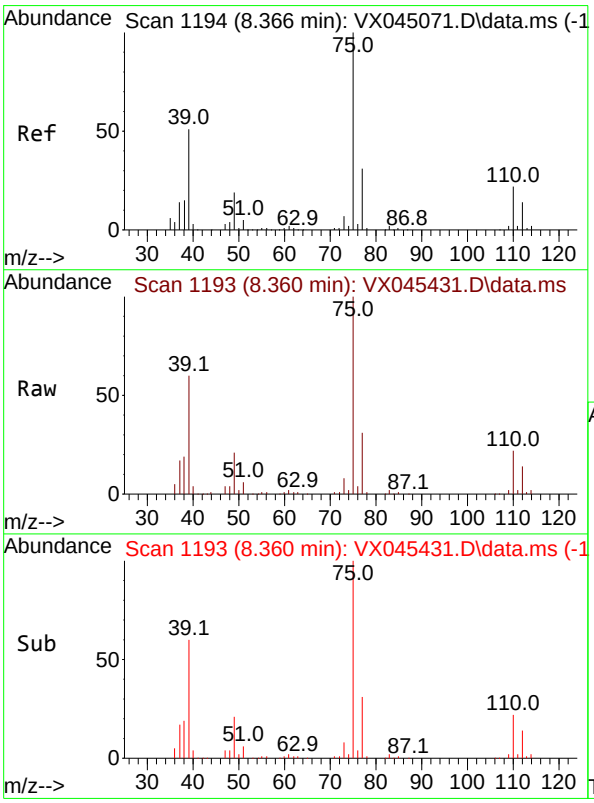
#53
t-1,3-Dichloropropene
Concen: 63.348 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 79234

Ion	Ratio	Lower	Upper
75	100		
77	30.8	26.5	39.7

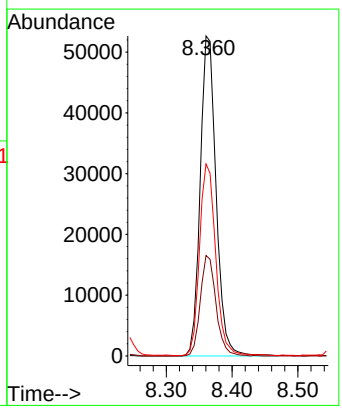


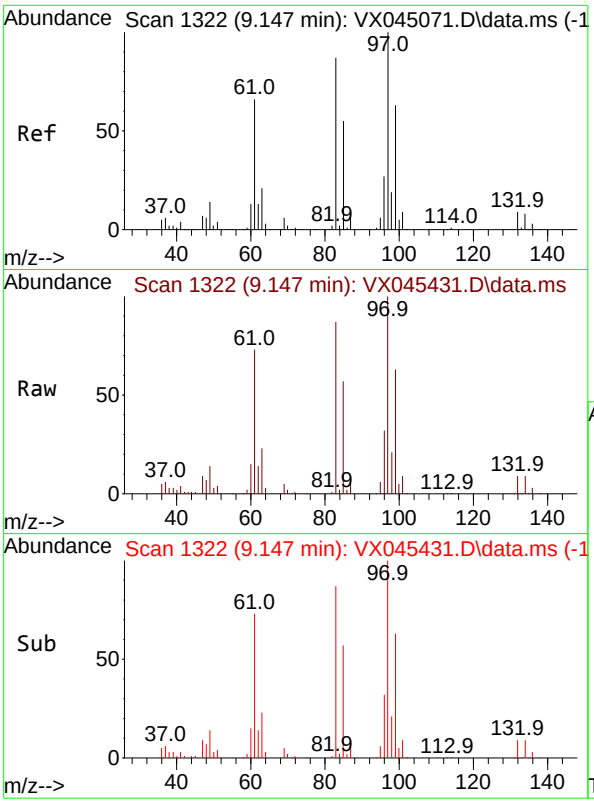


#54
cis-1,3-Dichloropropene
Concen: 60.662 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 88476

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.7	37.1
39	59.9	40.7	61.1



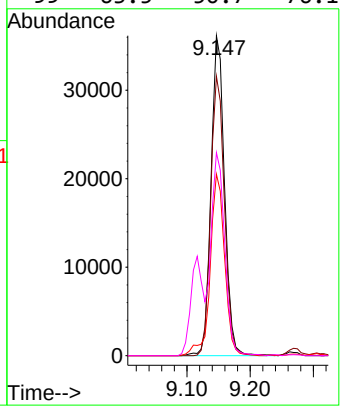


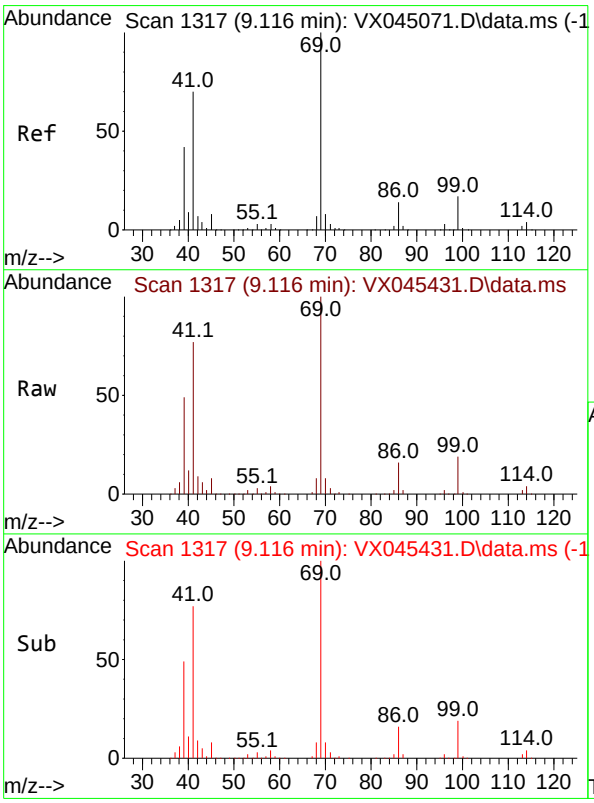
#55
1,1,2-Trichloroethane
Concen: 52.847 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 53576

Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.4	104.2
85	56.7	44.1	66.1
99	63.5	50.7	76.1

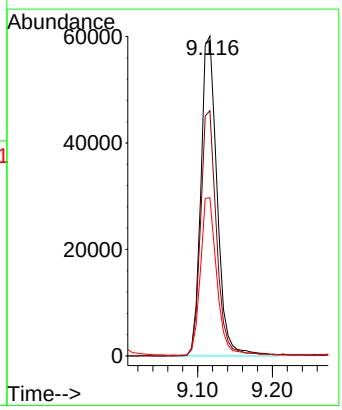


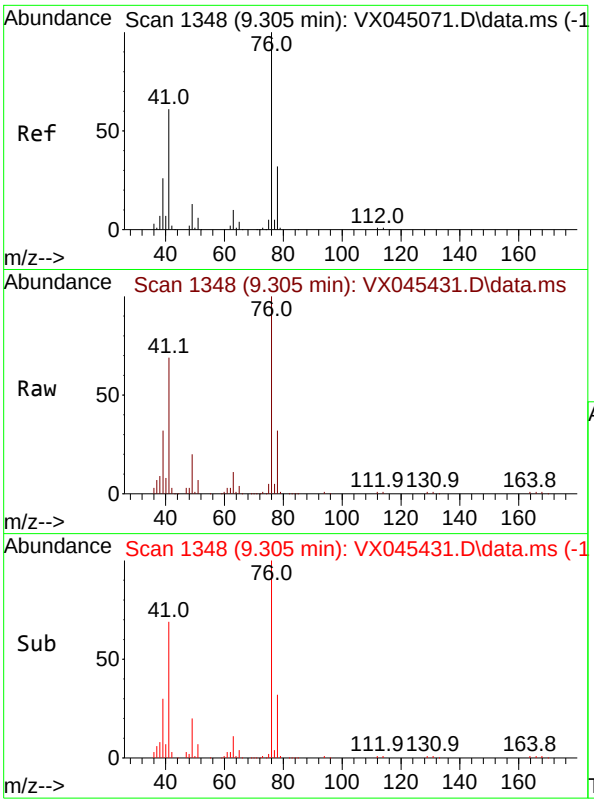


#56
Ethyl methacrylate
Concen: 58.682 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 69 Resp: 90431

Ion	Ratio	Lower	Upper
69	100		
41	76.5	57.0	85.4
39	50.1	34.2	51.4



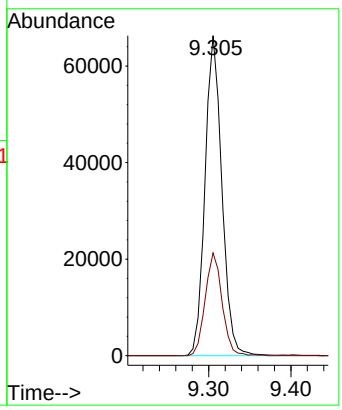


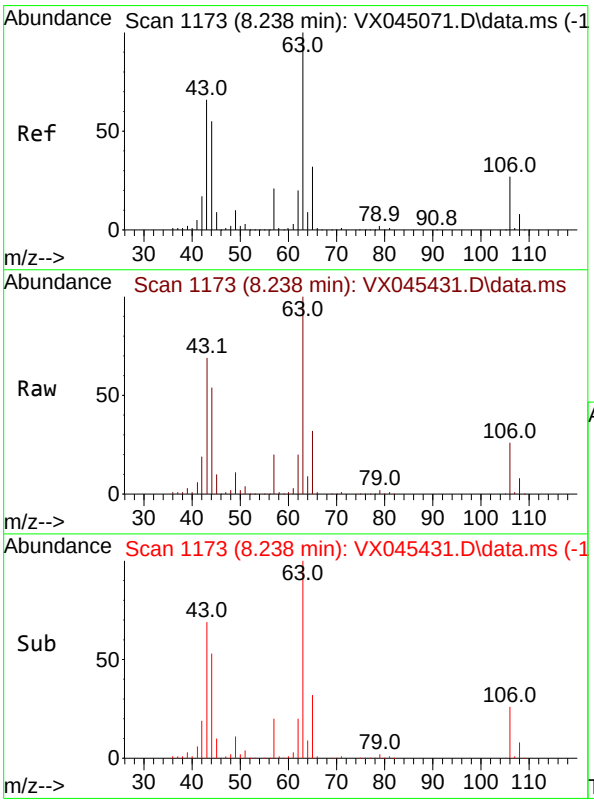
#57
1,3-Dichloropropane
Concen: 53.749 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 94299

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3

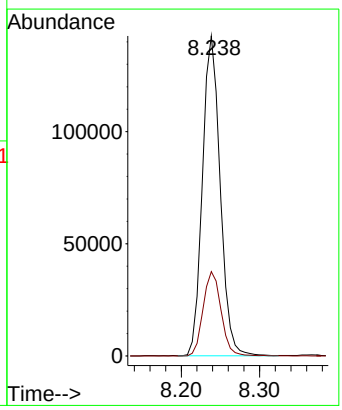


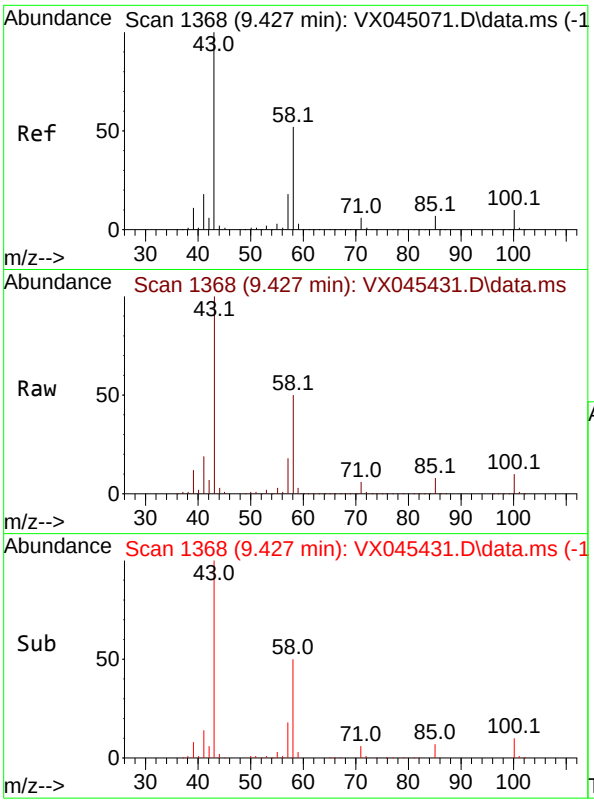


#58
2-Chloroethyl Vinyl ether
Concen: 298.307 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 63 Resp: 224245

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3



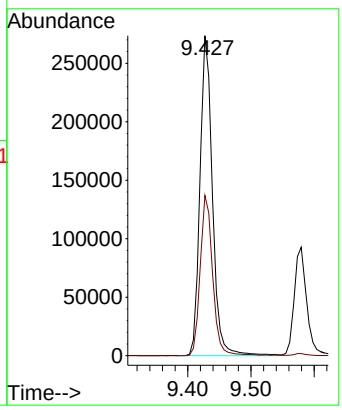


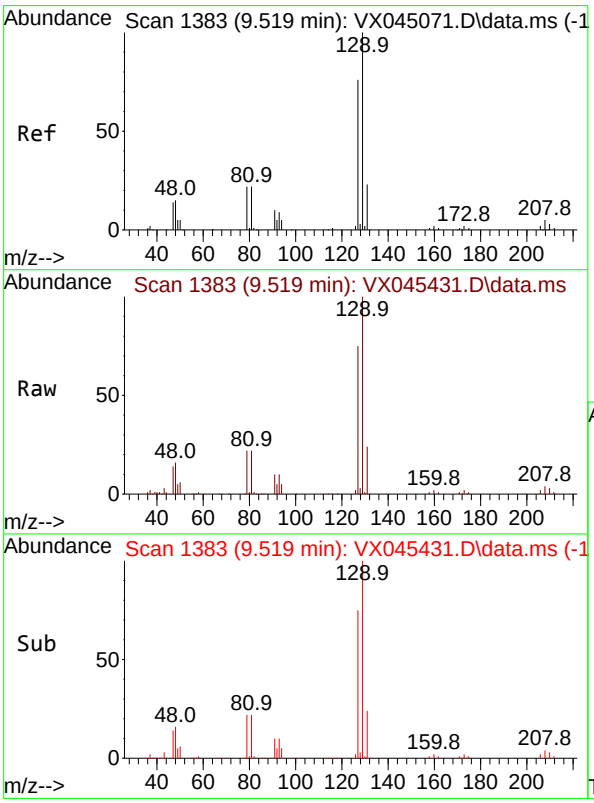
#59
2-Hexanone
Concen: 305.413 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 376299

Ion	Ratio	Lower	Upper
43	100		
58	50.1	25.9	77.6

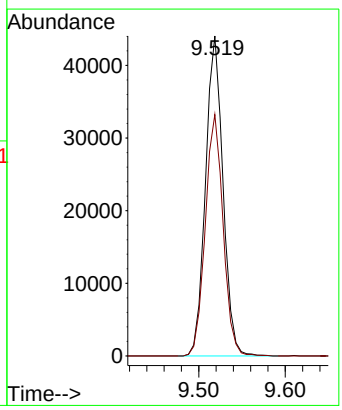


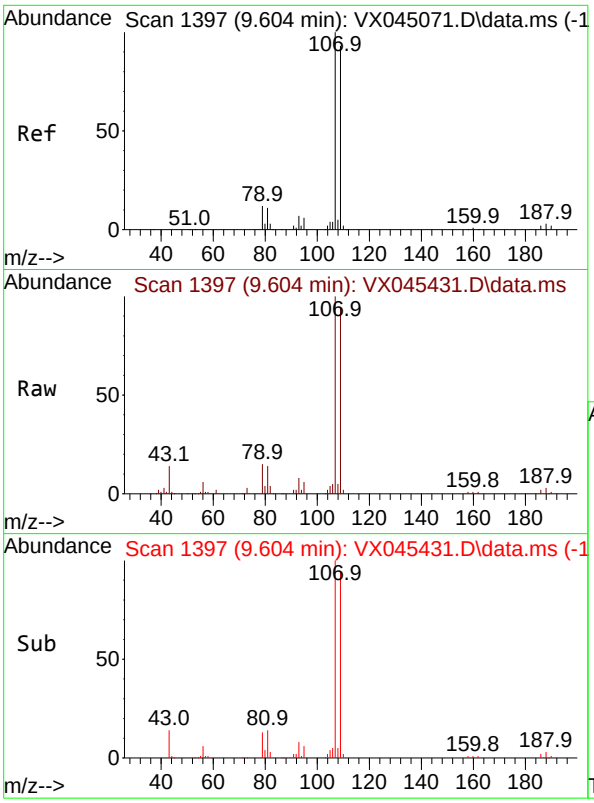


#60
Dibromochloromethane
Concen: 58.159 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:129 Resp: 61649

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5



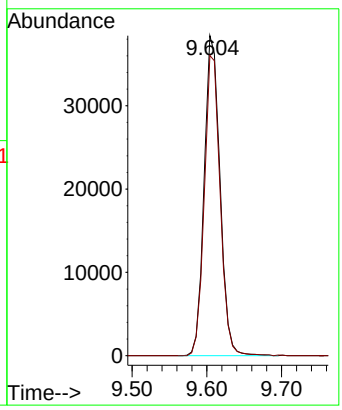


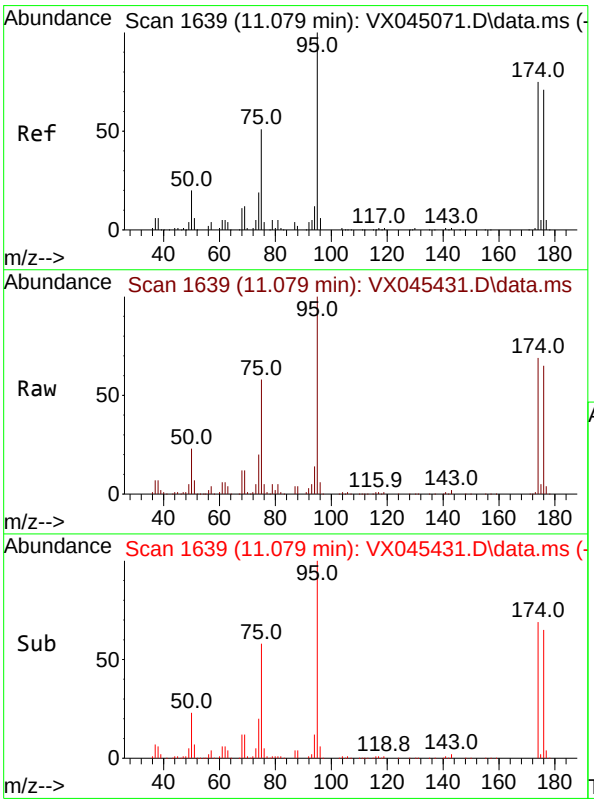
#61
1,2-Dibromoethane
Concen: 55.824 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 56497

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1

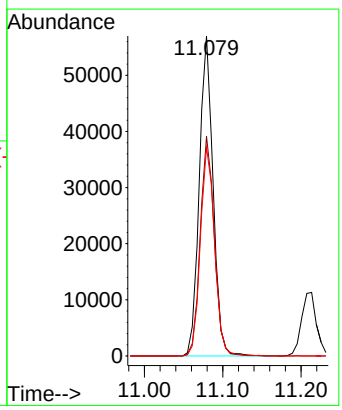


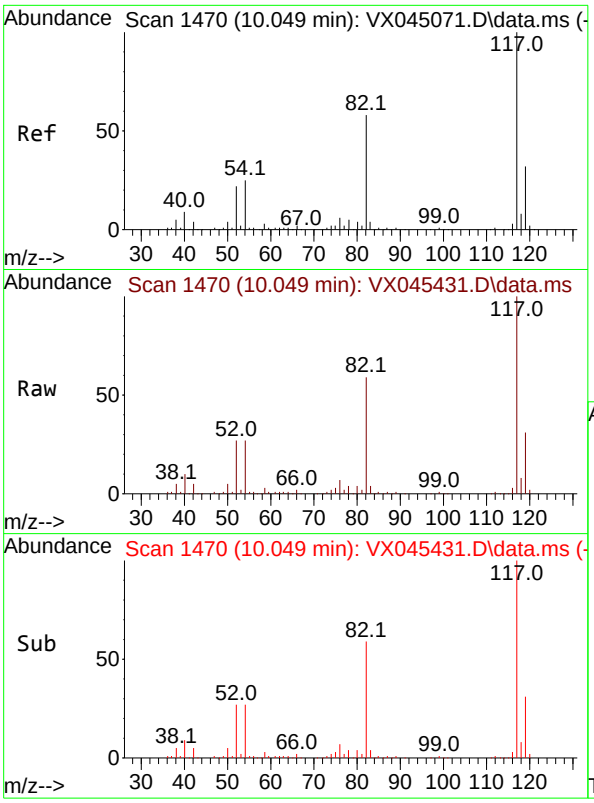


#62
4-Bromofluorobenzene
Concen: 59.846 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 95 Resp: 69681

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	148.2
176	66.9	0.0	141.4



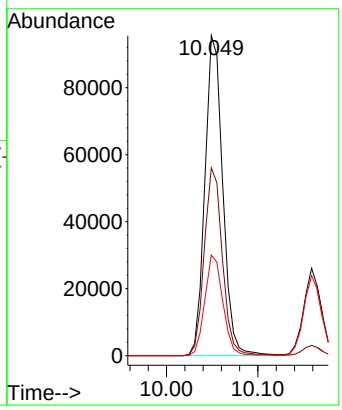


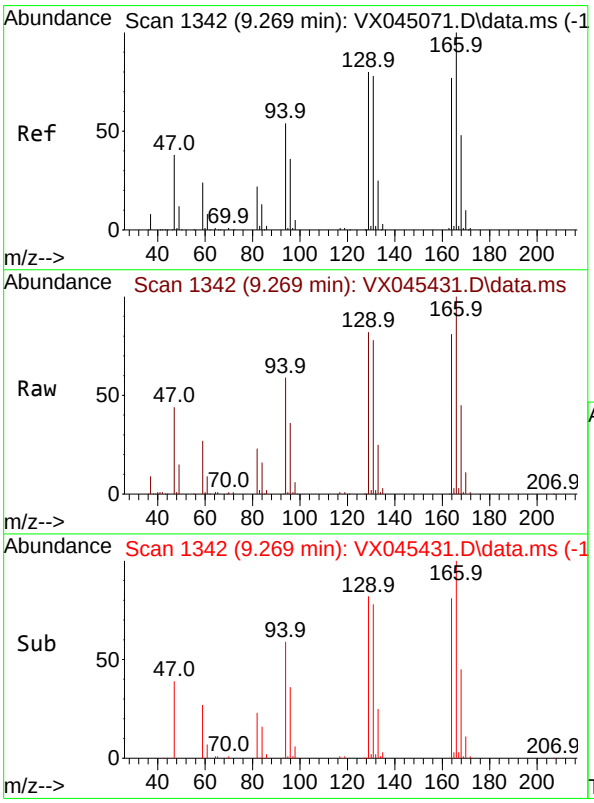
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 129576

Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.3	69.5
119	31.5	25.7	38.5

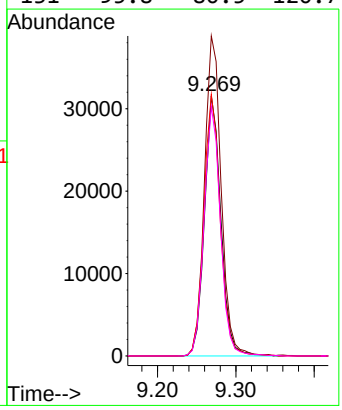


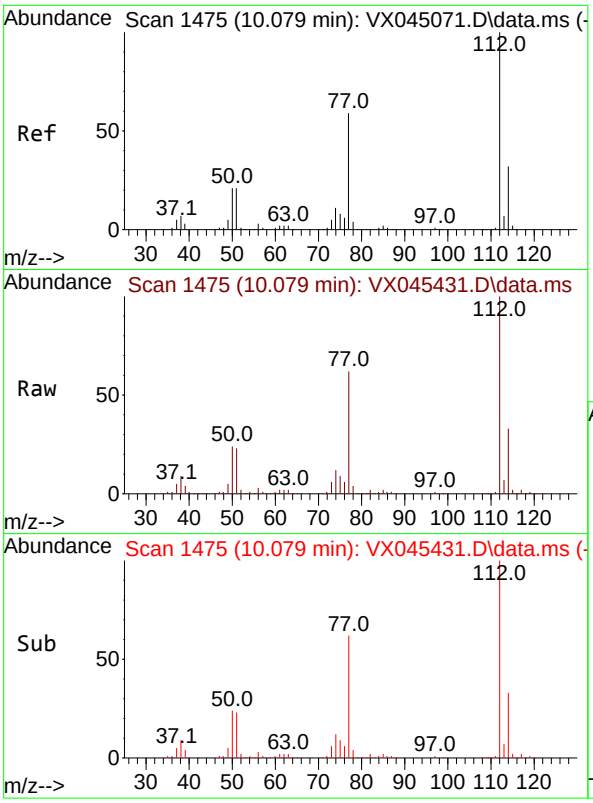


#64
Tetrachloroethene
Concen: 55.192 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:164 Resp: 45803

Ion	Ratio	Lower	Upper
164	100		
166	123.0	103.6	155.4
129	100.5	82.7	124.1
131	95.8	80.5	120.7



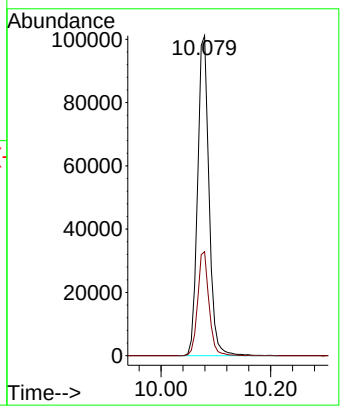


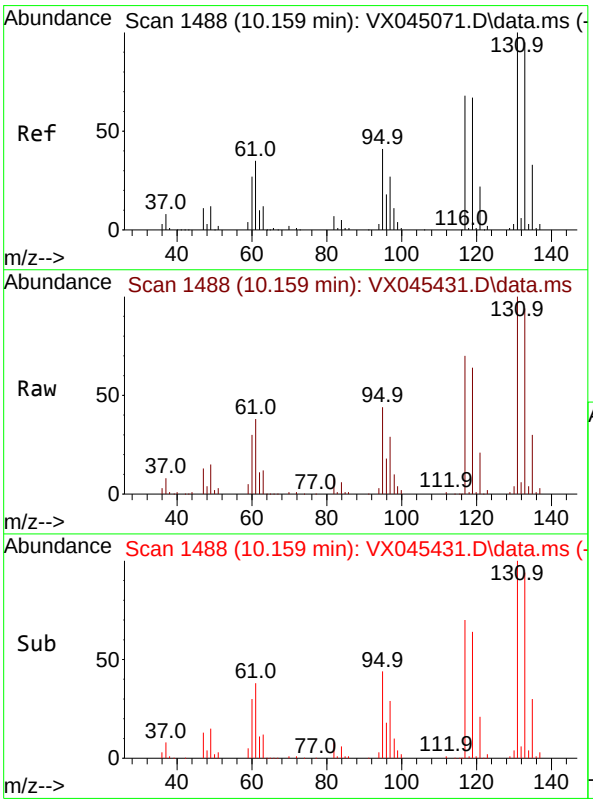
#65
Chlorobenzene
Concen: 53.387 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 146378

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0

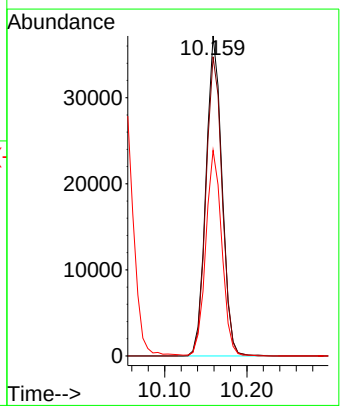


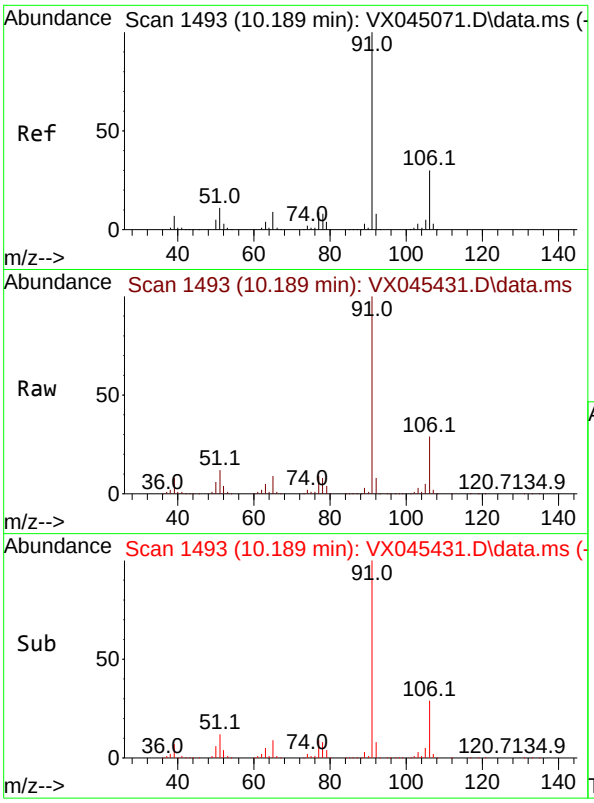


#66
1,1,1,2-Tetrachloroethane
Concen: 55.062 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:131 Resp: 50276

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.6	145.9
119	64.2	33.9	101.7



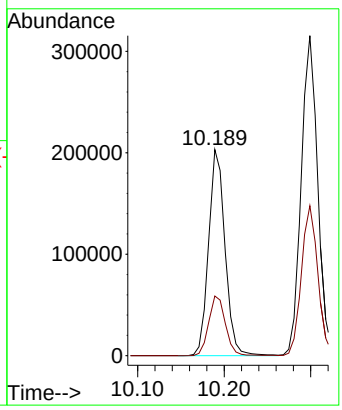


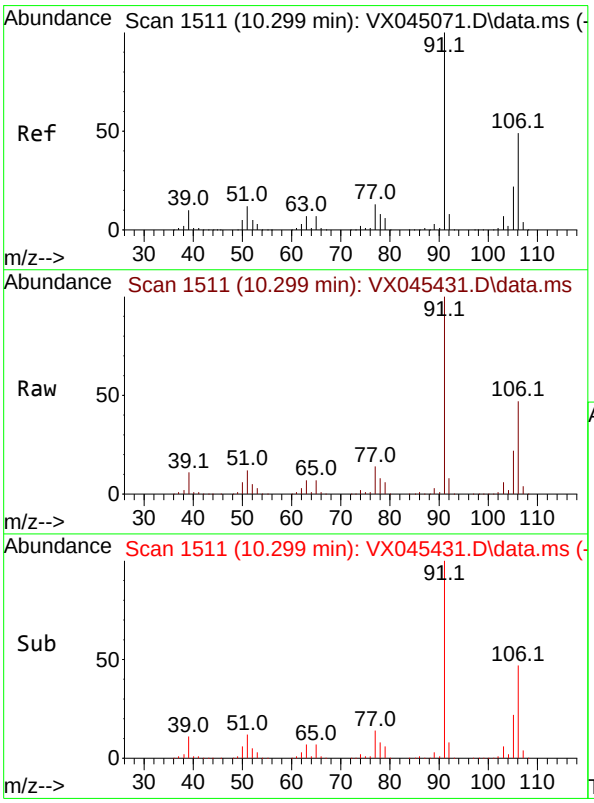
#67
Ethyl Benzene
Concen: 56.096 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 267992

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.9	35.9

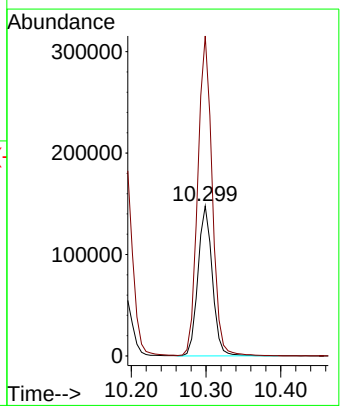


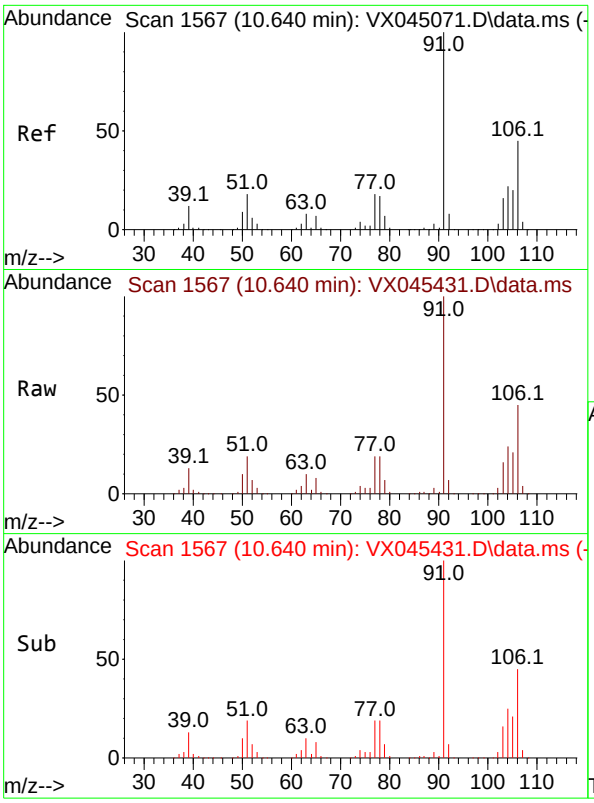


#68
m/p-Xylenes
Concen: 112.611 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:106 Resp: 196944

Ion	Ratio	Lower	Upper
106	100		
91	214.1	165.4	248.0



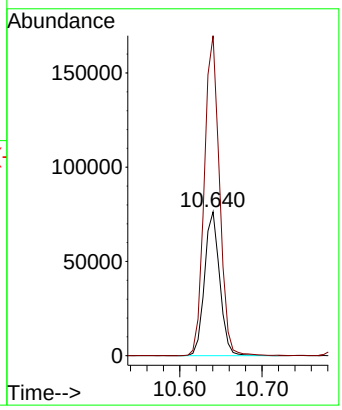


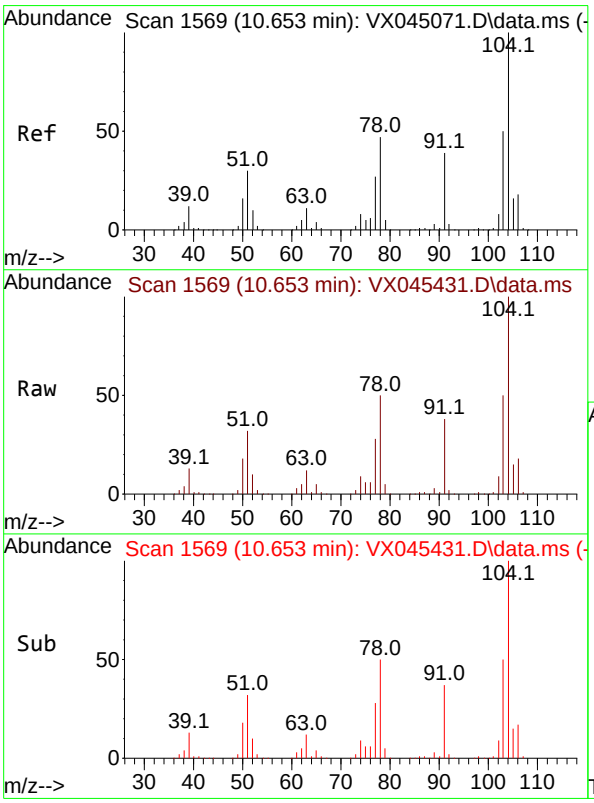
#69
o-Xylene
Concen: 55.328 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 97592

Ion	Ratio	Lower	Upper
106	100		
91	223.3	109.9	329.6

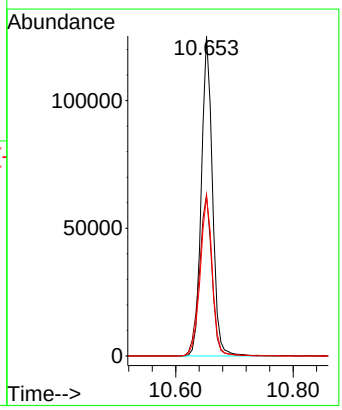


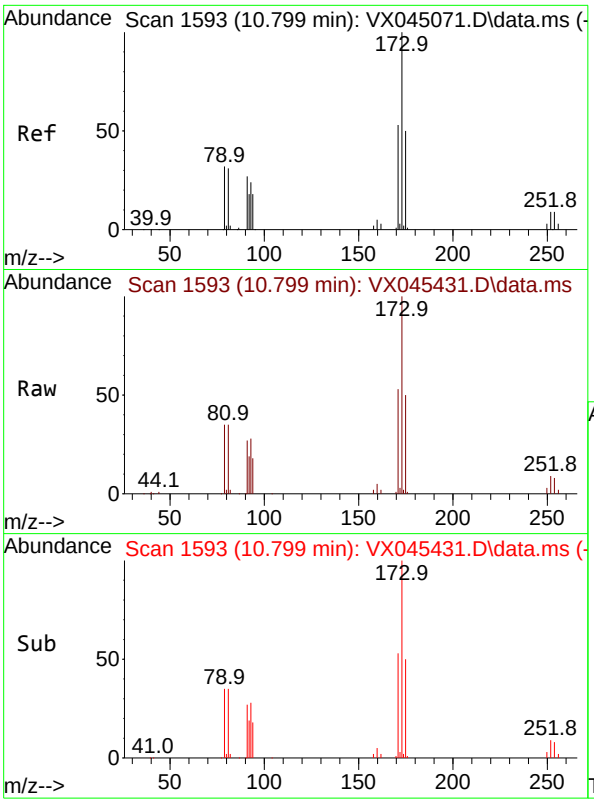


#70
Styrene
Concen: 57.595 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:104 Resp: 164378

Ion	Ratio	Lower	Upper
104	100		
78	56.8	42.2	63.4
103	54.8	43.8	65.8



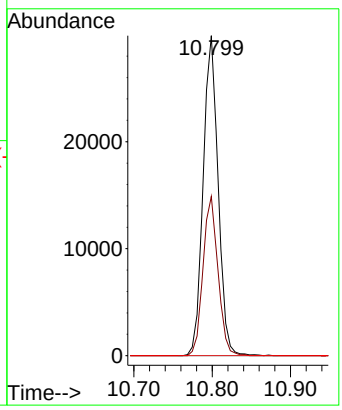


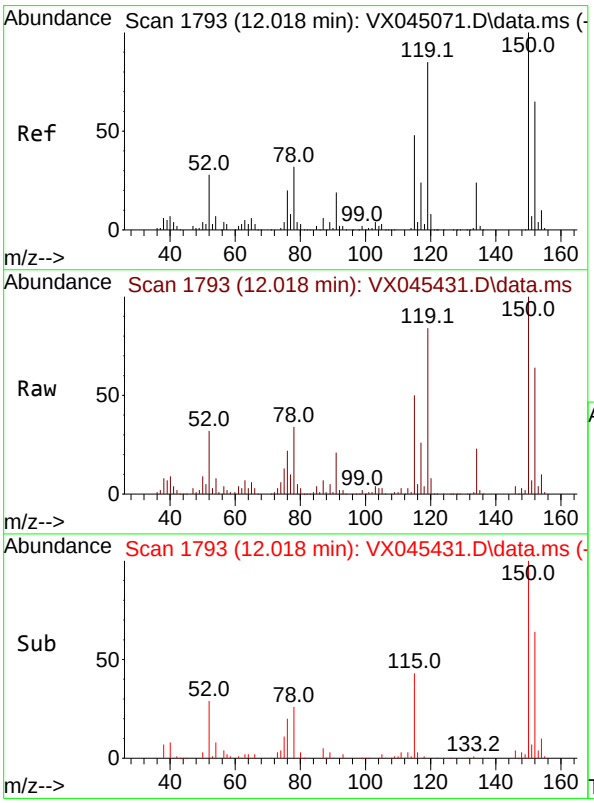
#71
Bromoform
Concen: 57.503 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 39593

Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.6	73.6
254	0.0	0.0	0.0

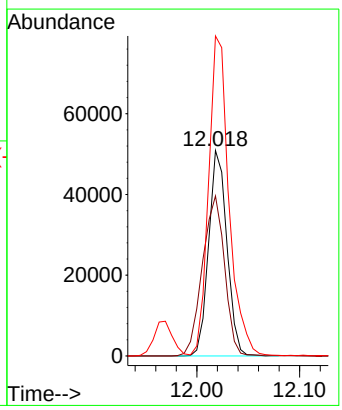


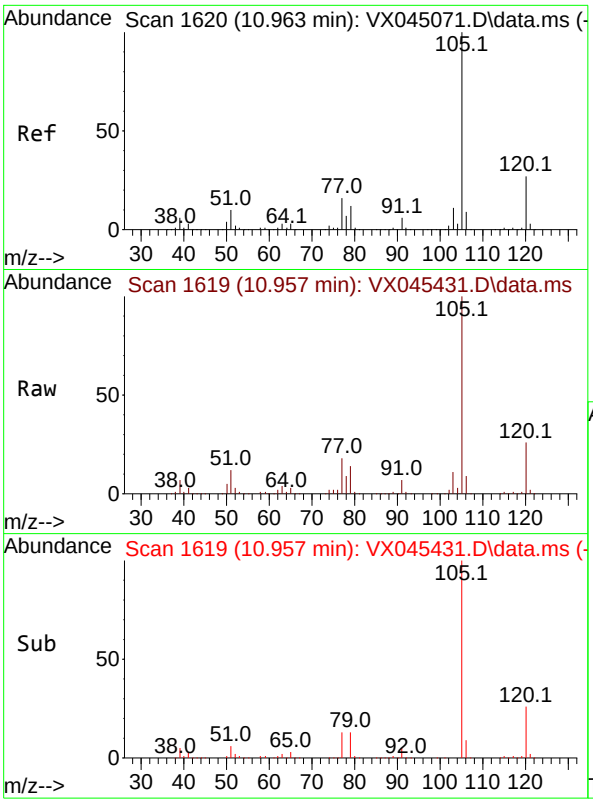


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:152 Resp: 63016

Ion	Ratio	Lower	Upper
152	100		
115	94.4	44.2	132.6
150	173.0	0.0	349.0



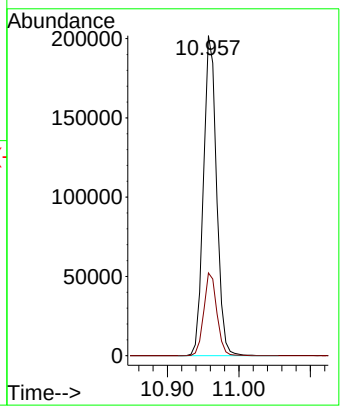


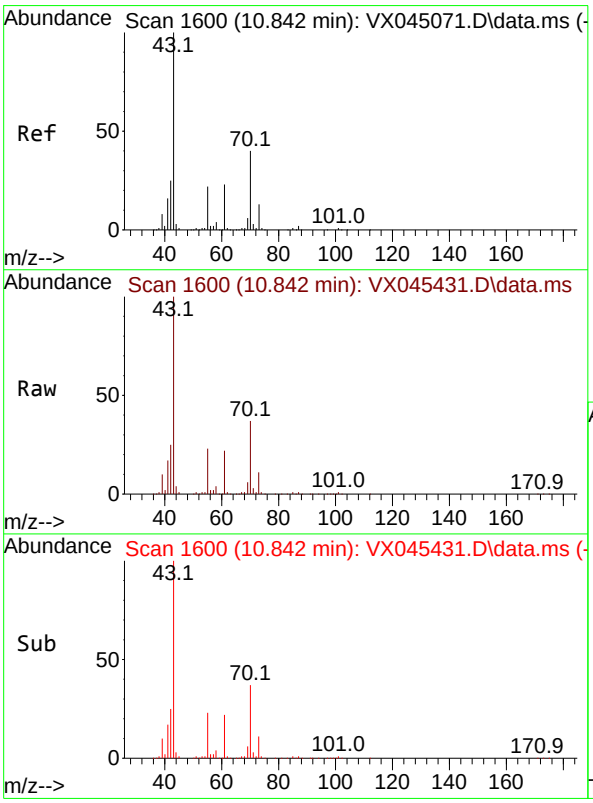
#73
Isopropylbenzene
Concen: 52.224 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 256869

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5

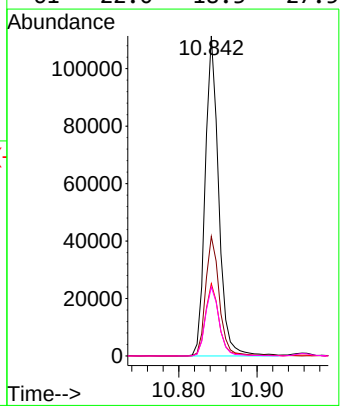


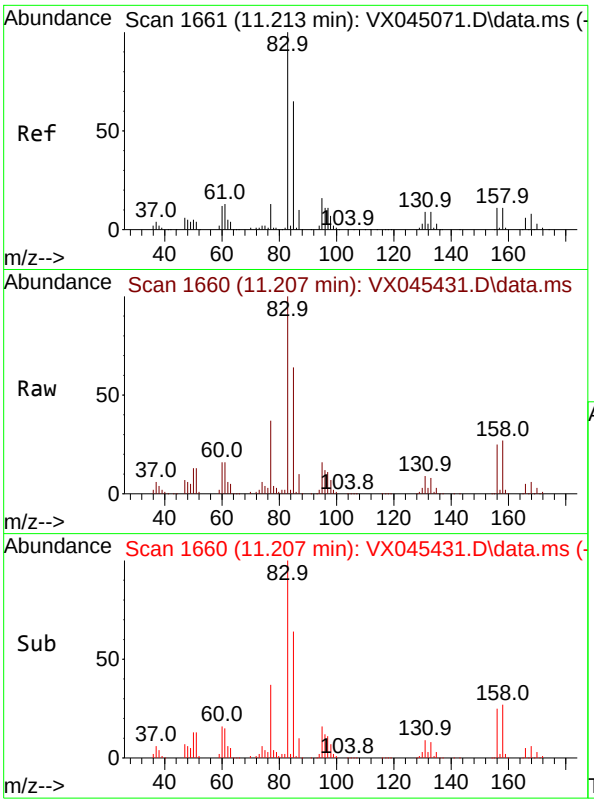


#74
N-amyl acetate
Concen: 57.592 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 43 Resp: 132920

Ion	Ratio	Lower	Upper
43	100		
70	38.1	31.8	47.6
55	23.0	18.3	27.5
61	22.0	18.3	27.5



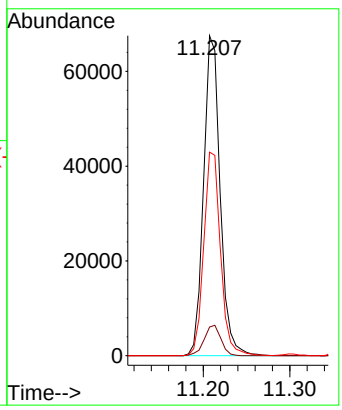


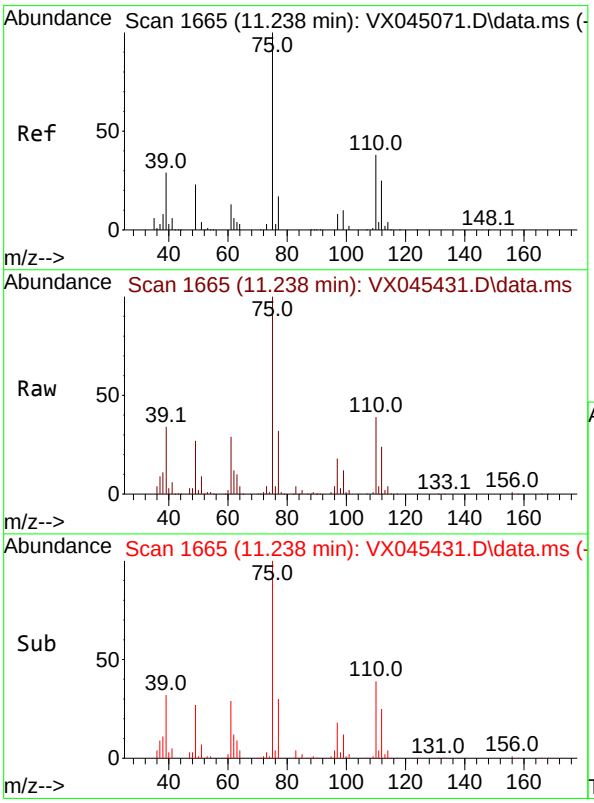
#75
1,1,2,2-Tetrachloroethane
Concen: 49.643 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 89603

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.4
85	64.4	31.7	95.1

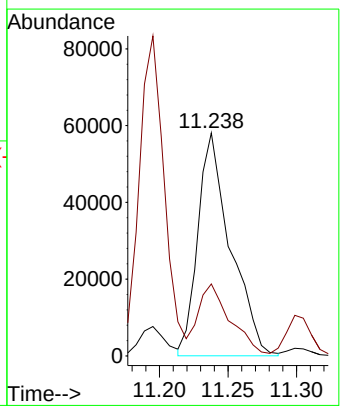


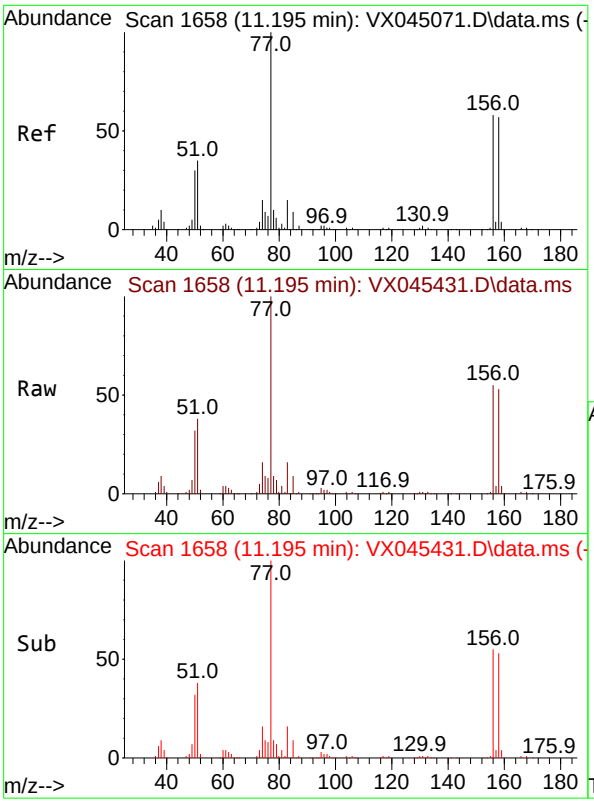


#76
1,2,3-Trichloropropane
Concen: 65.690 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 96348

Ion	Ratio	Lower	Upper
75	100		
77	32.0	20.7	62.1



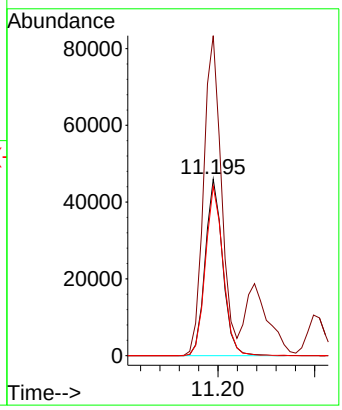


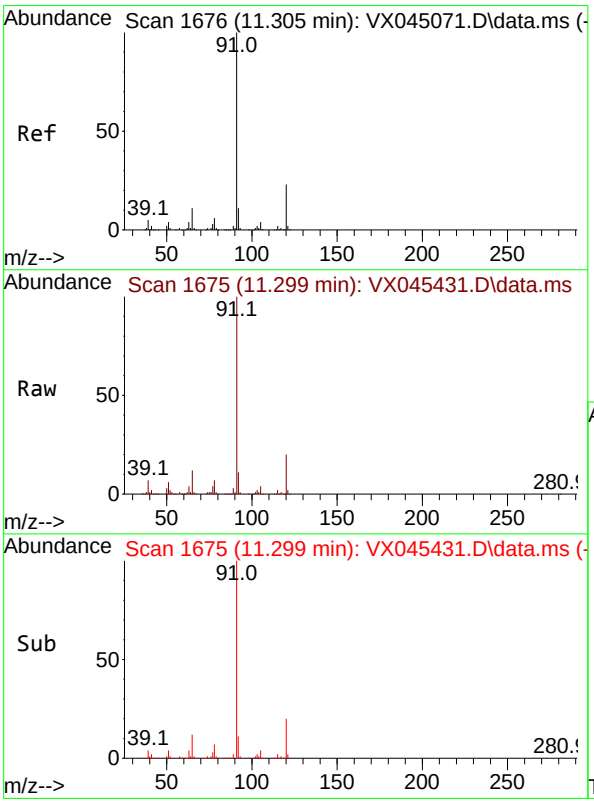
#77
Bromobenzene
Concen: 49.647 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 57616

Ion	Ratio	Lower	Upper
156	100		
77	185.3	85.8	257.4
158	97.6	48.4	145.2

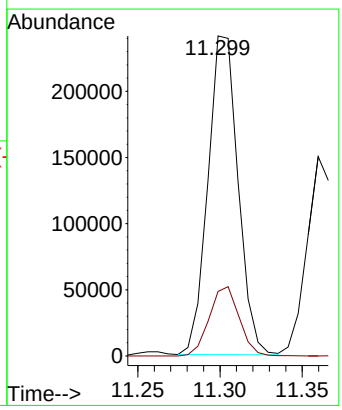


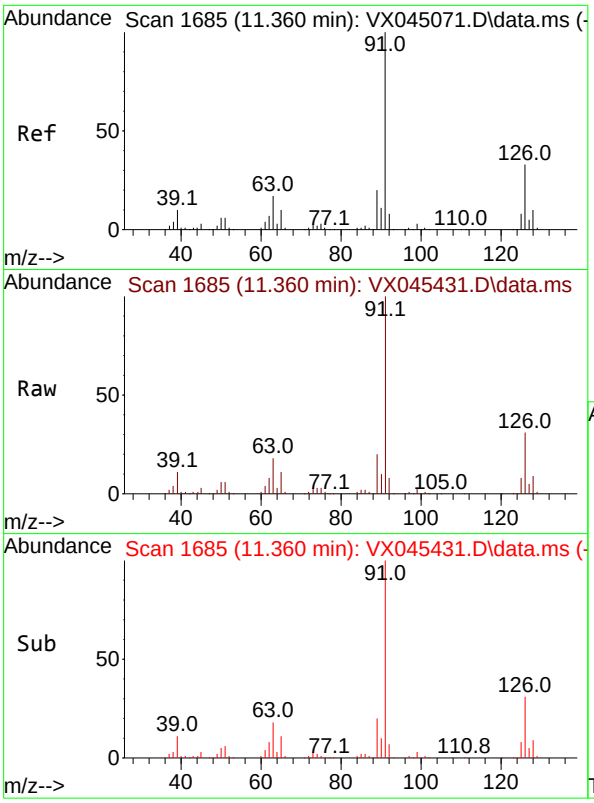


#78
n-propylbenzene
Concen: 55.312 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 91 Resp: 307324

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.2	33.6



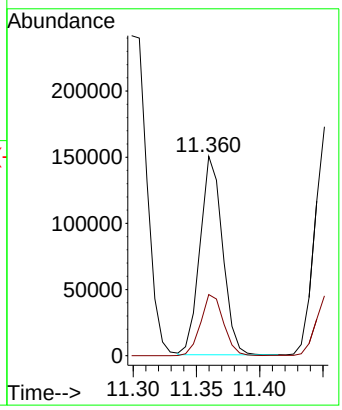


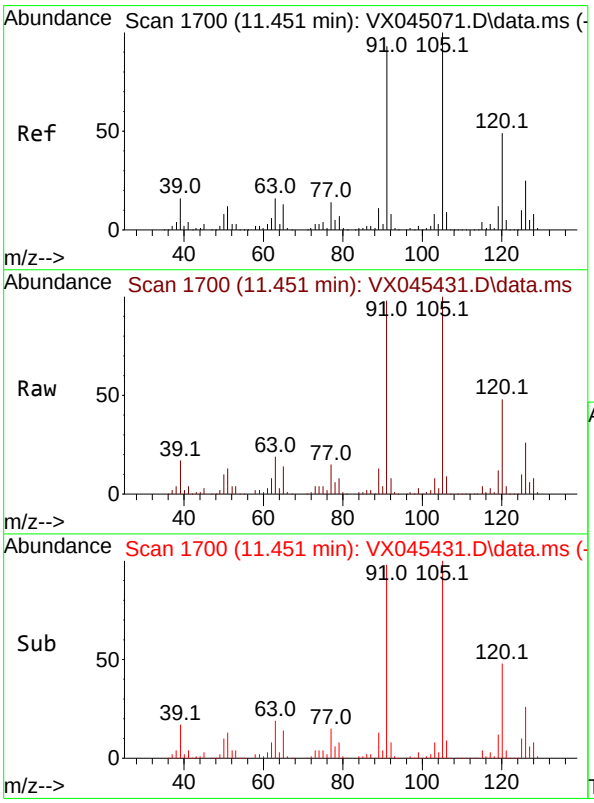
#79
2-Chlorotoluene
Concen: 52.637 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 186258

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.4	49.4

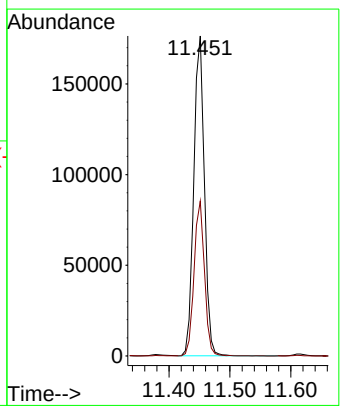


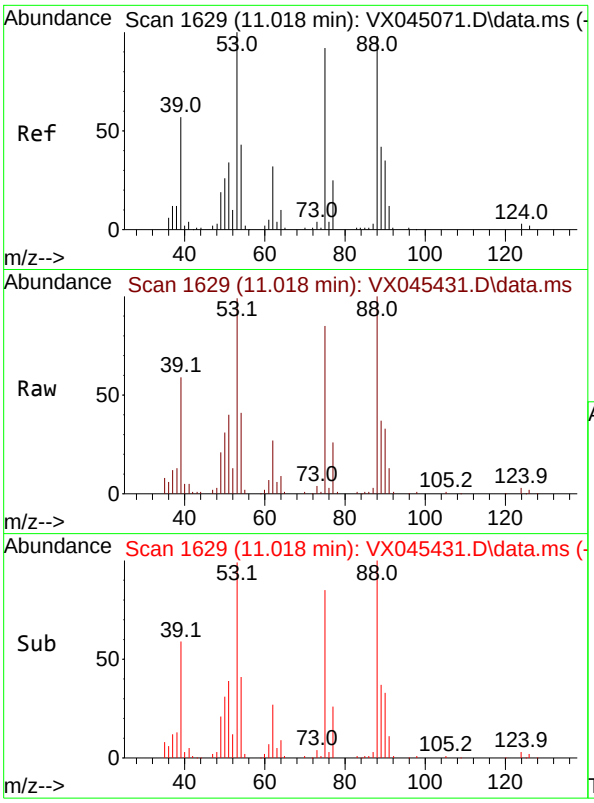


#80
1,3,5-Trimethylbenzene
Concen: 53.605 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:105 Resp: 213188

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.1	72.2



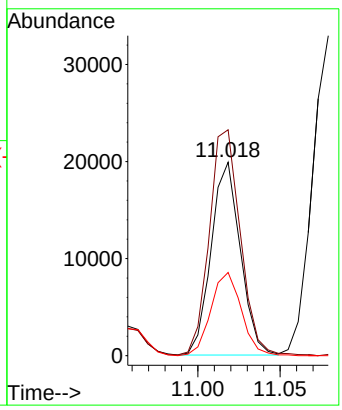


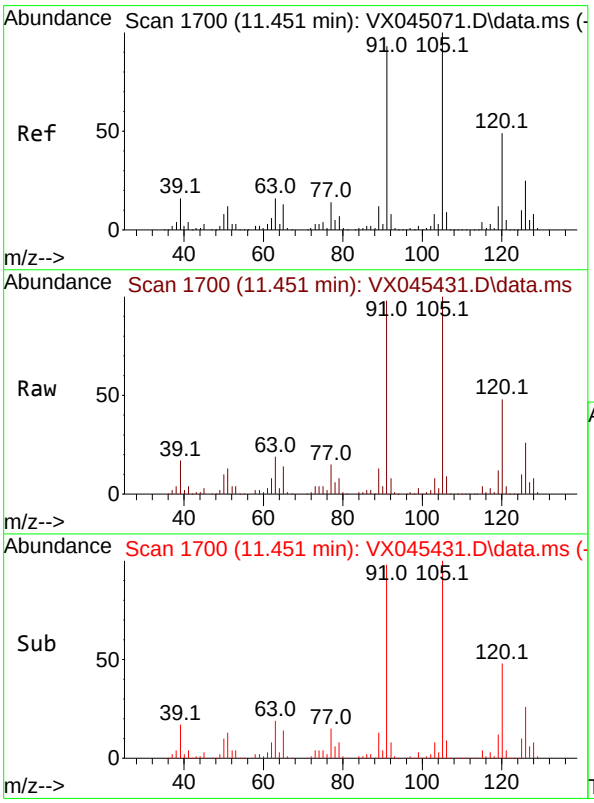
#81
trans-1,4-Dichloro-2-butene
Concen: 57.344 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 24577

Ion	Ratio	Lower	Upper
75	100		
53	124.7	88.5	132.7
89	45.0	36.2	54.4

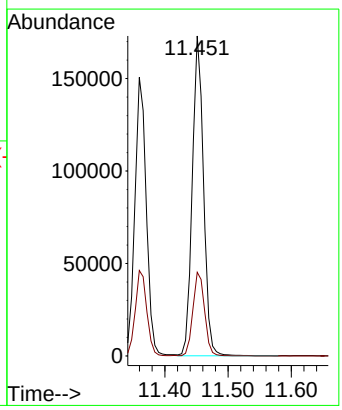


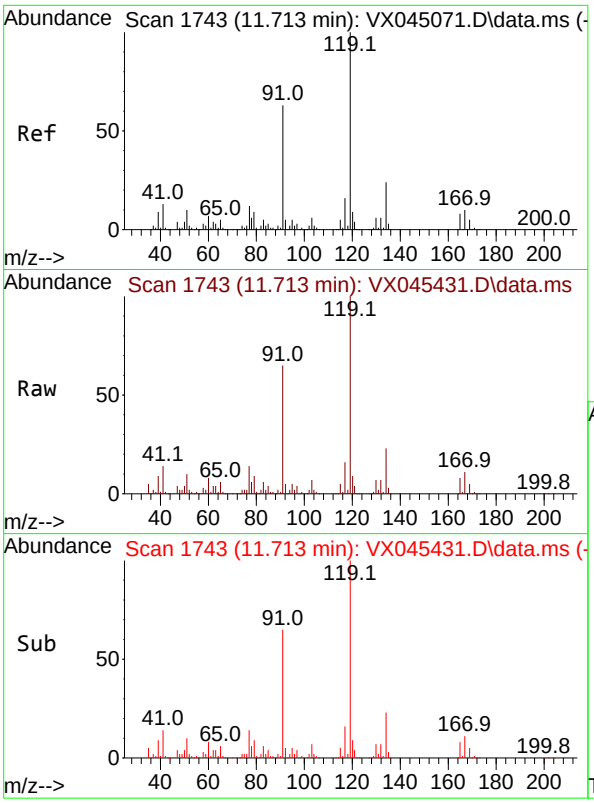


#82
4-Chlorotoluene
Concen: 55.350 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 91 Resp: 213457

Ion	Ratio	Lower	Upper
91	100		
126	27.1	14.1	42.4



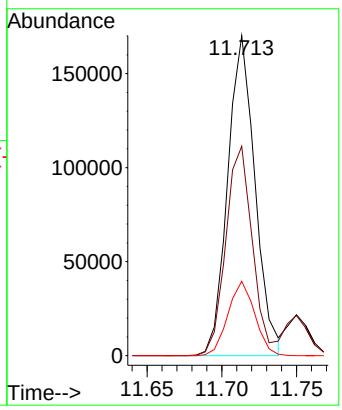


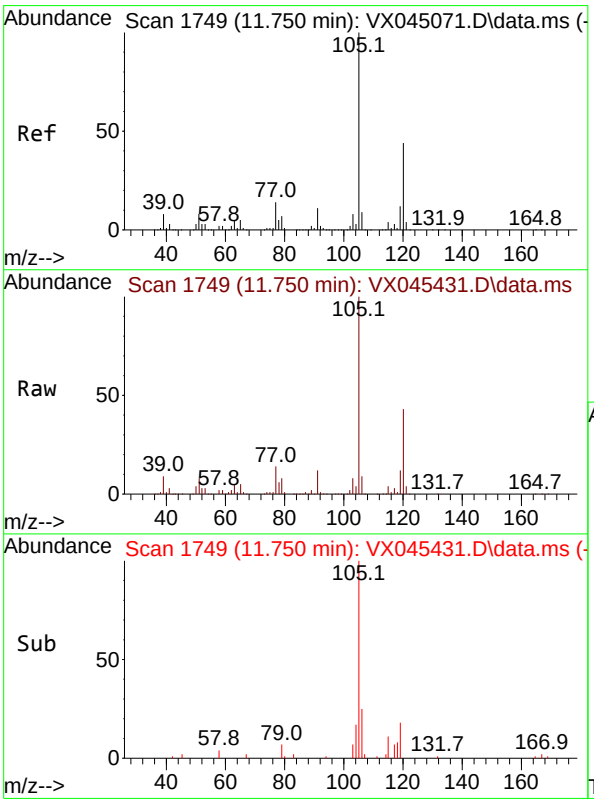
#83
tert-Butylbenzene
Concen: 53.053 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 216792

Ion	Ratio	Lower	Upper
119	100		
91	64.4	30.7	92.1
134	22.8	11.7	35.0

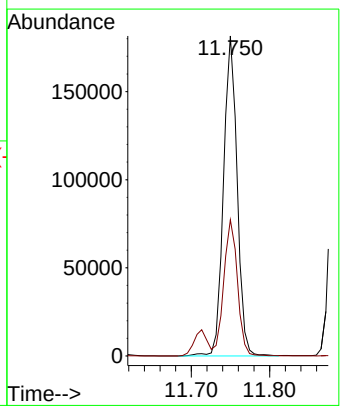


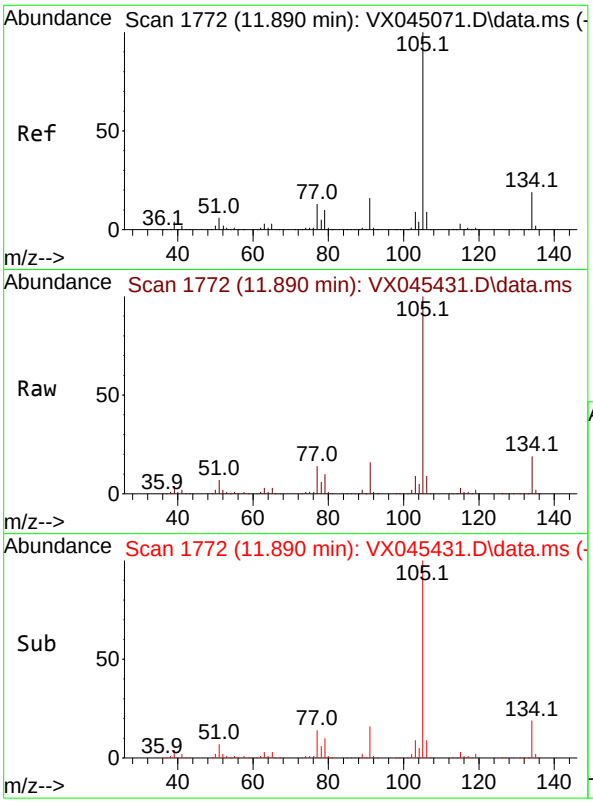


#84
1,2,4-Trimethylbenzene
Concen: 55.071 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:105 Resp: 220378

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.1



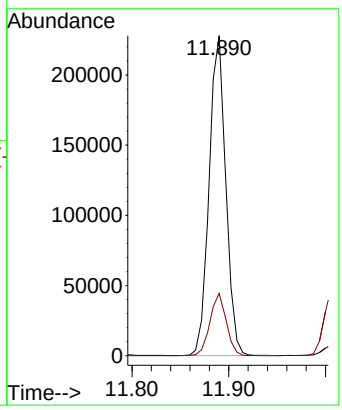


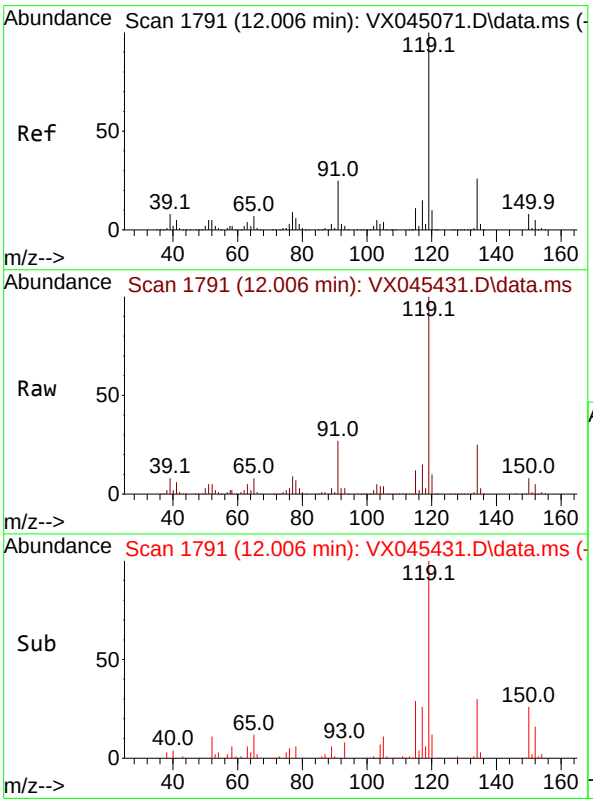
#85
sec-Butylbenzene
Concen: 55.742 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 272850

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4

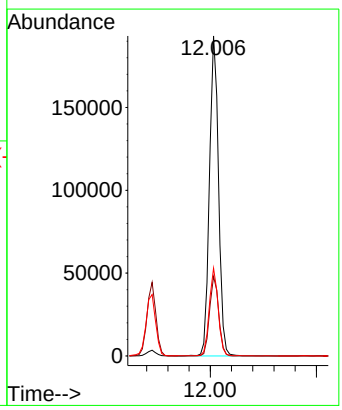


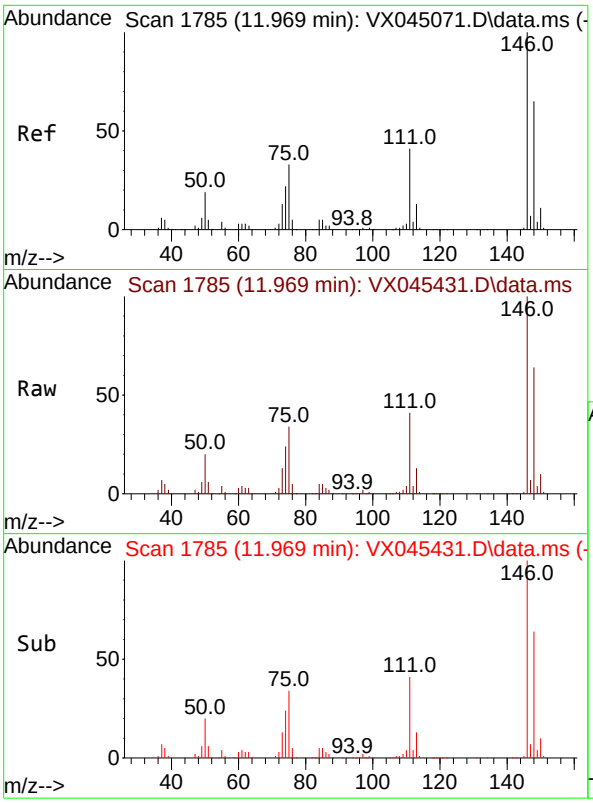


#86
p-Isopropyltoluene
Concen: 57.799 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:119 Resp: 228640

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.9	38.6
91	26.6	12.7	38.0



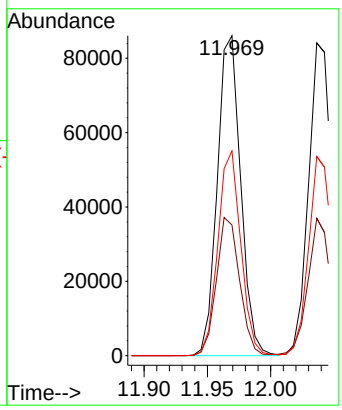


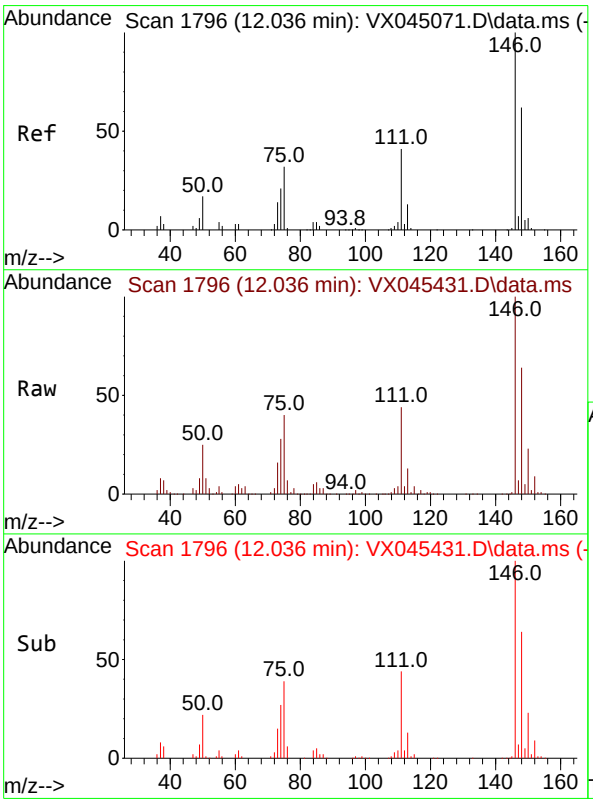
#87
1,3-Dichlorobenzene
Concen: 53.426 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 110607

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.4
148	62.8	31.9	95.7

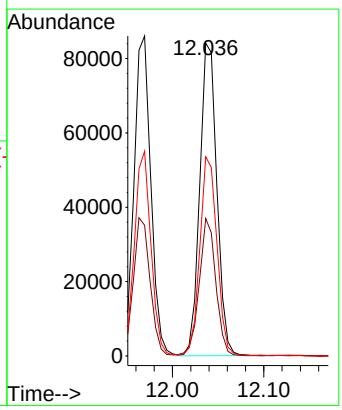


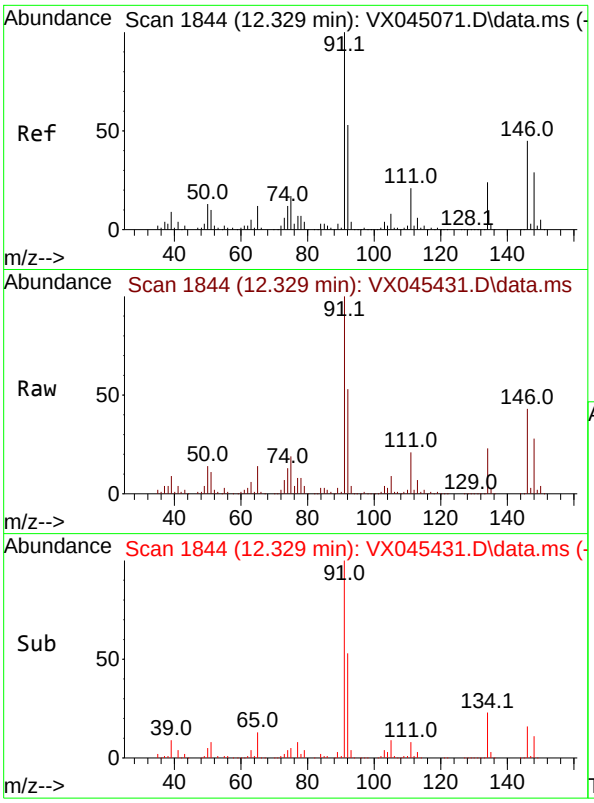


#88
1,4-Dichlorobenzene
Concen: 52.095 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:146 Resp: 109112

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.2	60.5
148	64.0	31.9	95.9



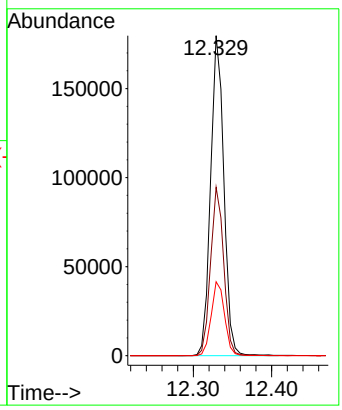


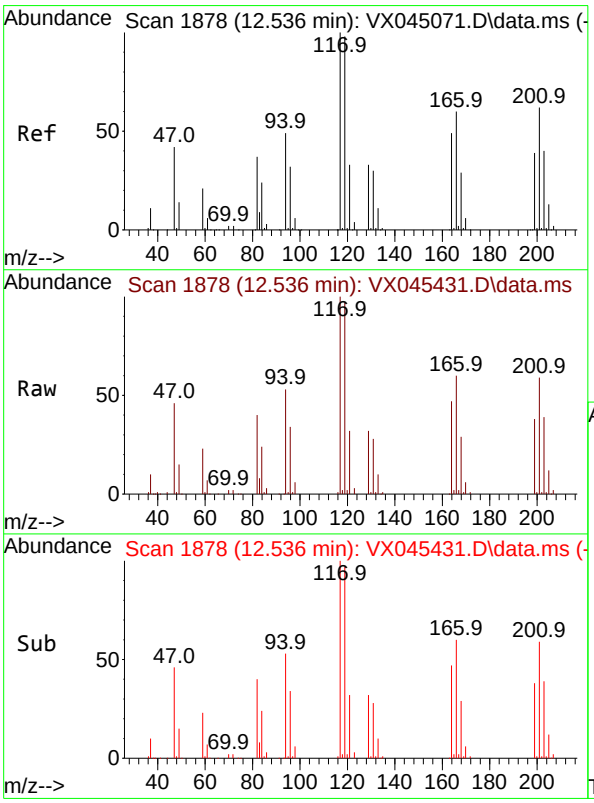
#89
n-Butylbenzene
Concen: 61.782 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 210489

Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.7	80.0
134	23.4	12.2	36.6

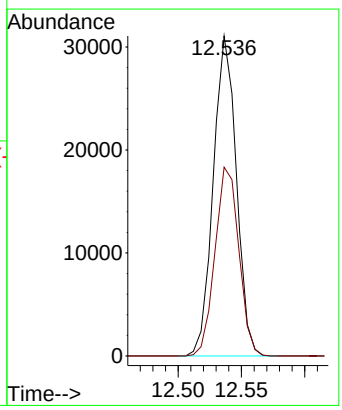


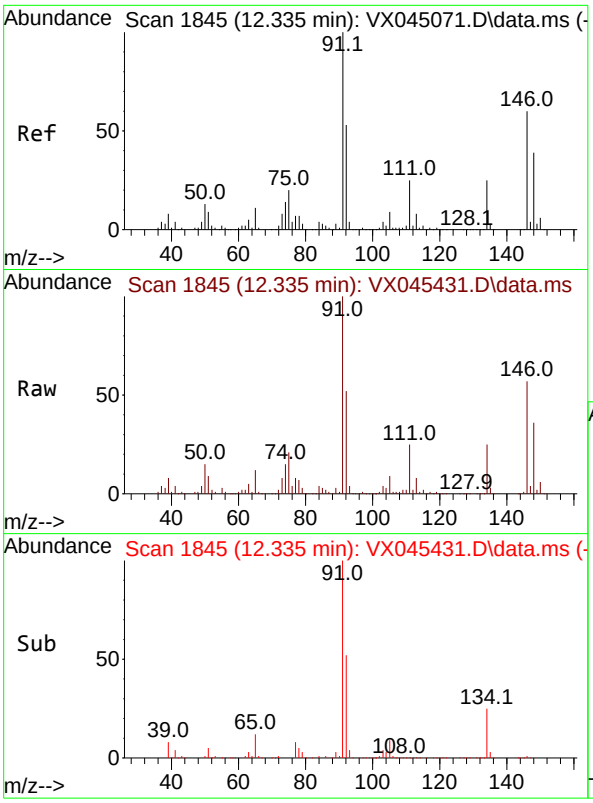


#90
Hexachloroethane
Concen: 54.992 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:117 Resp: 39347

Ion	Ratio	Lower	Upper
117	100		
201	61.0	31.9	95.9



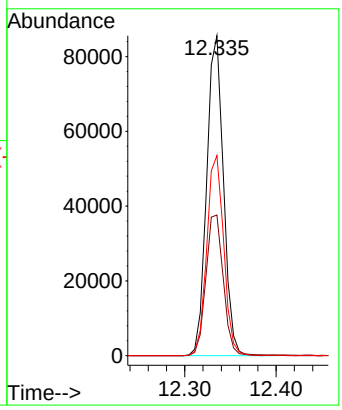


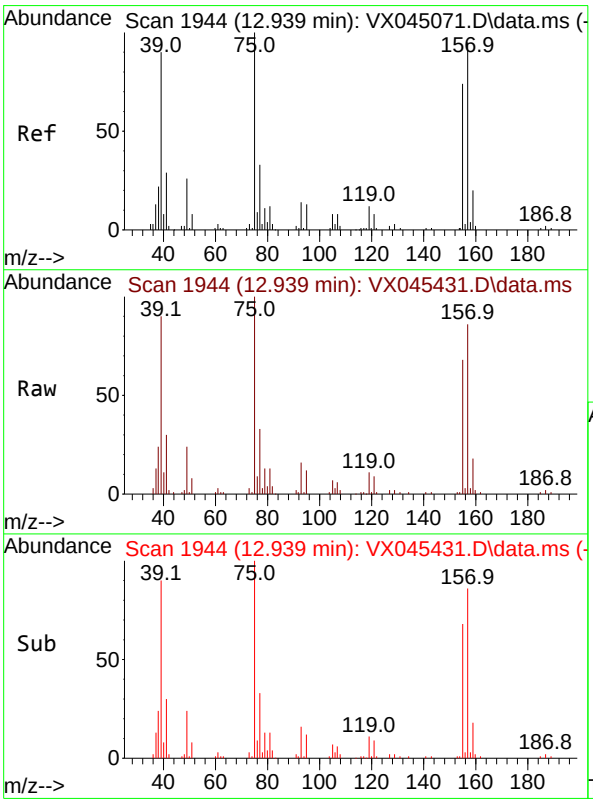
#91
1,2-Dichlorobenzene
Concen: 52.598 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 109233

Ion	Ratio	Lower	Upper
146	100		
111	45.5	21.6	65.0
148	63.2	31.9	95.9

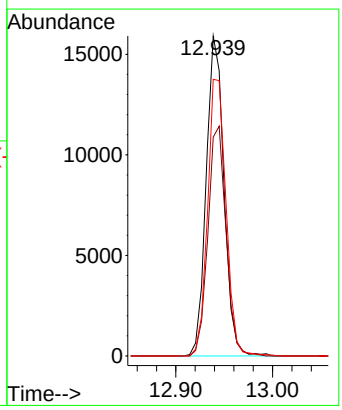


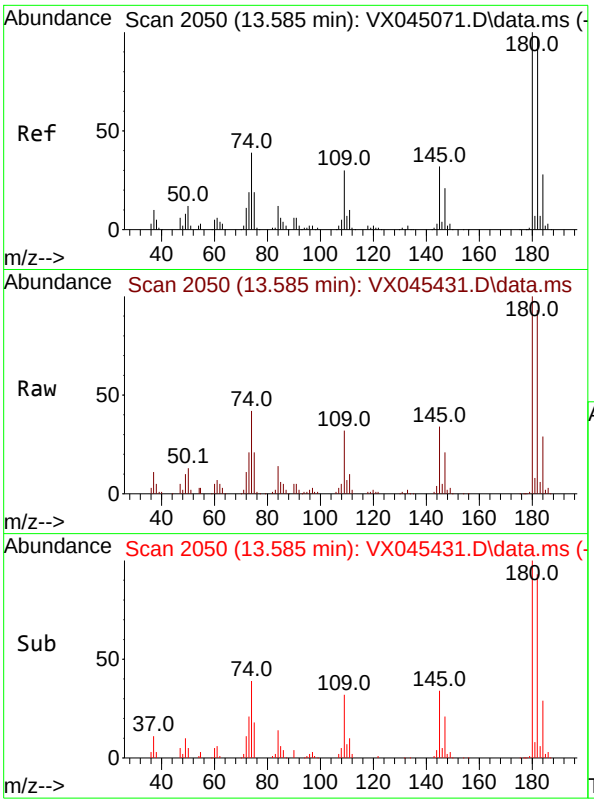


#92
1,2-Dibromo-3-Chloropropane
Concen: 57.847 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion: 75 Resp: 20341

Ion	Ratio	Lower	Upper
75	100		
155	73.1	39.6	118.7
157	89.5	51.1	153.4



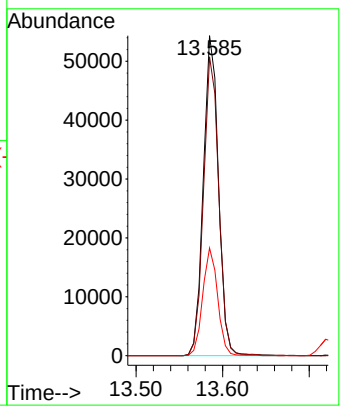


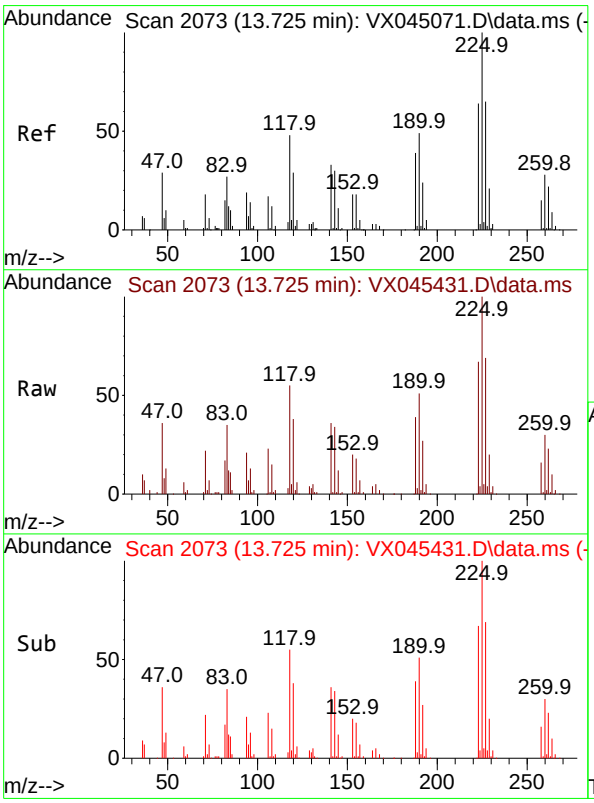
#93
1,2,4-Trichlorobenzene
Concen: 55.783 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 65965

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.3	141.9
145	33.2	16.3	48.9

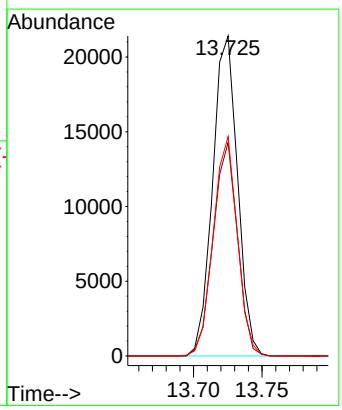


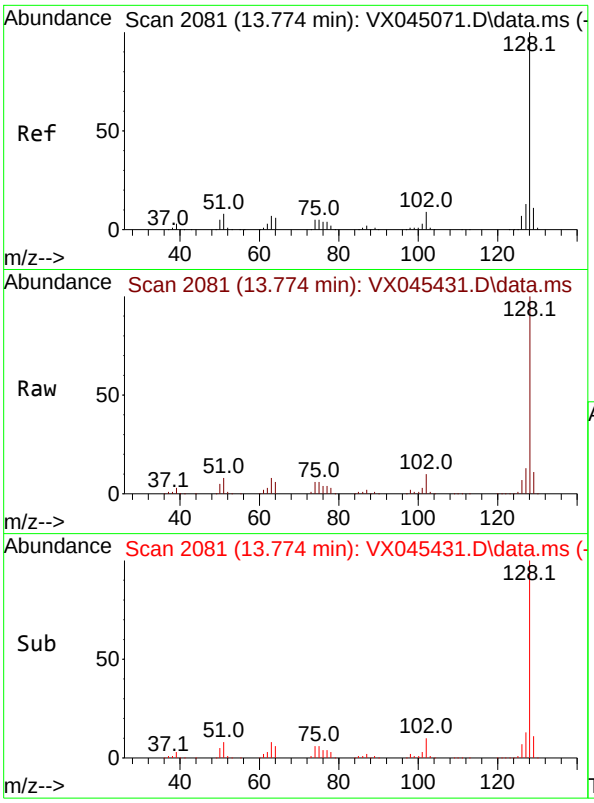


#94
Hexachlorobutadiene
Concen: 55.799 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:225 Resp: 27052

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.9	95.7
227	66.4	31.4	94.0



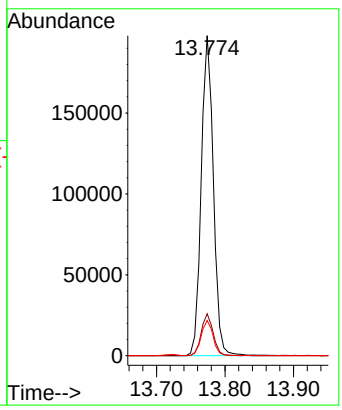


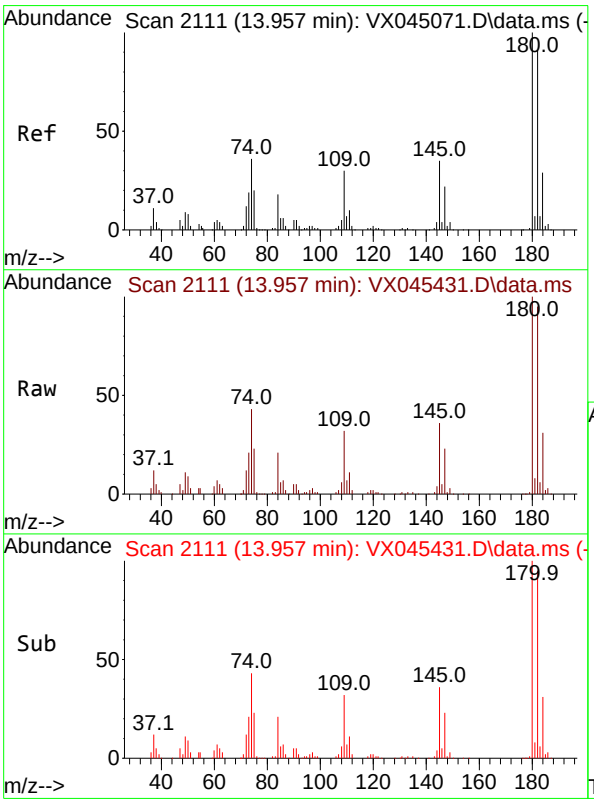
#95
Naphthalene
Concen: 53.764 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 244271

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.7	13.1

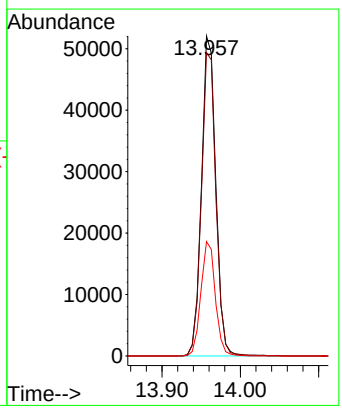




#96
1,2,3-Trichlorobenzene
Concen: 52.935 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045431.D
Acq: 25 Mar 2025 11:31

Tgt Ion:180 Resp: 66037

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.6
145	36.0	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	88260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	159282	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137098	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	79497	56.626	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.260%			
35) Dibromofluoromethane	5.379	113	56889	53.413	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.820%			
50) Toluene-d8	8.647	98	193748	50.177	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.360%			
62) 4-Bromofluorobenzene	11.079	95	69492	54.311	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21634	19.473	ug/l	93
3) Chloromethane	1.307	50	21765	16.008	ug/l	100
4) Vinyl Chloride	1.374	62	21512	15.950	ug/l	99
5) Bromomethane	1.593	94	10370	19.558	ug/l	98
6) Chloroethane	1.666	64	12272	19.726	ug/l	96
7) Trichlorofluoromethane	1.874	101	35730	20.011	ug/l	98
8) Diethyl Ether	2.130	74	12404	17.761	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	23226	22.642	ug/l	98
10) Methyl Iodide	2.447	142	25124	19.598	ug/l	92
11) Tert butyl alcohol	2.977	59	21298	80.091	ug/l	97
12) 1,1-Dichloroethene	2.313	96	21282	19.623	ug/l	99
13) Acrolein	2.233	56	41176	133.950	ug/l	99
14) Allyl chloride	2.660	41	40753	21.110	ug/l	93
15) Acrylonitrile	3.062	53	74109	103.983	ug/l	97
16) Acetone	2.386	43	71720	110.107	ug/l	99
17) Carbon Disulfide	2.502	76	40407	13.988	ug/l	96
18) Methyl Acetate	2.703	43	46032	29.376	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	78132	21.473	ug/l	99
20) Methylene Chloride	2.782	84	26113	20.238	ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	21506	20.072	ug/l	93
22) Diisopropyl ether	3.757	45	83401	21.242	ug/l #	81
23) Vinyl Acetate	3.721	43	340859	104.034	ug/l	99
24) 1,1-Dichloroethane	3.605	63	47200	21.451	ug/l	100
25) 2-Butanone	4.556	43	107857	110.005	ug/l	94
26) 2,2-Dichloropropane	4.471	77	32630	31.616	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	27486	20.781	ug/l	92
28) Bromochloromethane	4.891	49	25516	24.329	ug/l	96
29) Tetrahydrofuran	5.001	42	67379	102.332	ug/l	98
30) Chloroform	5.087	83	48836	22.337	ug/l	100
31) Cyclohexane	5.464	56	37722	19.749	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	39374	22.298	ug/l	96
36) 1,1-Dichloropropene	5.684	75	30671	20.998	ug/l	99
37) Ethyl Acetate	4.715	43	36236	19.253	ug/l	99
38) Carbon Tetrachloride	5.672	117	32393	21.844	ug/l	97
39) Methylcyclohexane	7.379	83	35870	20.495	ug/l	98
40) Benzene	6.031	78	94569	20.503	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	22985	22.585	ug/l		97
42) 1,2-Dichloroethane	6.086	62	39733	23.922	ug/l		96
43) Isopropyl Acetate	6.342	43	58934	21.175	ug/l		99
44) Trichloroethene	7.123	130	22201	20.499	ug/l		96
45) 1,2-Dichloropropane	7.428	63	25053	21.126	ug/l		100
46) Dibromomethane	7.580	93	18482	22.050	ug/l		96
47) Bromodichloromethane	7.818	83	37305	22.690	ug/l		99
48) Methyl methacrylate	7.696	41	30493	21.839	ug/l		93
49) 1,4-Dioxane	7.659	88	11048	375.106	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	211951	113.420	ug/l		98
52) Toluene	8.714	92	57834	21.371	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	30348	22.080	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	35919	22.410	ug/l		93
55) 1,1,2-Trichloroethane	9.147	97	24798	22.259	ug/l		98
56) Ethyl methacrylate	9.116	69	37053	21.880	ug/l		93
57) 1,3-Dichloropropane	9.305	76	42139	21.857	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	81540	98.707	ug/l		99
59) 2-Hexanone	9.427	43	150538	111.183	ug/l		99
60) Dibromochloromethane	9.519	129	25647	22.017	ug/l		99
61) 1,2-Dibromoethane	9.604	107	24141	21.706	ug/l		99
64) Tetrachloroethene	9.269	164	18971	21.606	ug/l		97
65) Chlorobenzene	10.080	112	61991	21.369	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	21269	22.016	ug/l		98
67) Ethyl Benzene	10.189	91	109339	21.631	ug/l		96
68) m/p-Xylenes	10.299	106	79751	43.099	ug/l		93
69) o-Xylene	10.640	106	39921	21.391	ug/l		96
70) Styrene	10.653	104	65405	21.659	ug/l		98
71) Bromoform	10.799	173	15571	21.374	ug/l	#	99
73) Isopropylbenzene	10.964	105	107177	22.544	ug/l		98
74) N-amyl acetate	10.842	43	47397	21.246	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.207	83	37257	21.355	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	36819	25.971	ug/l		89
77) Bromobenzene	11.195	156	23991	21.388	ug/l		96
78) n-propylbenzene	11.299	91	120148	22.372	ug/l		98
79) 2-Chlorotoluene	11.360	91	74772	21.861	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	86843	22.591	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	8394	20.262	ug/l	#	80
82) 4-Chlorotoluene	11.451	91	83643	22.439	ug/l		99
83) tert-Butylbenzene	11.713	119	86114	21.802	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	85798	22.182	ug/l		100
85) sec-Butylbenzene	11.890	105	107683	22.760	ug/l		98
86) p-Isopropyltoluene	12.006	119	86148	22.531	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	41975	20.976	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	41462	20.480	ug/l		97
89) n-Butylbenzene	12.329	91	72708	22.079	ug/l		99
90) Hexachloroethane	12.536	117	14599	21.109	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	42440	21.142	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7496	22.055	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	22997	20.120	ug/l		99
94) Hexachlorobutadiene	13.719	225	10176	21.715	ug/l		98
95) Naphthalene	13.774	128	88346	20.117	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	24449	20.276	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

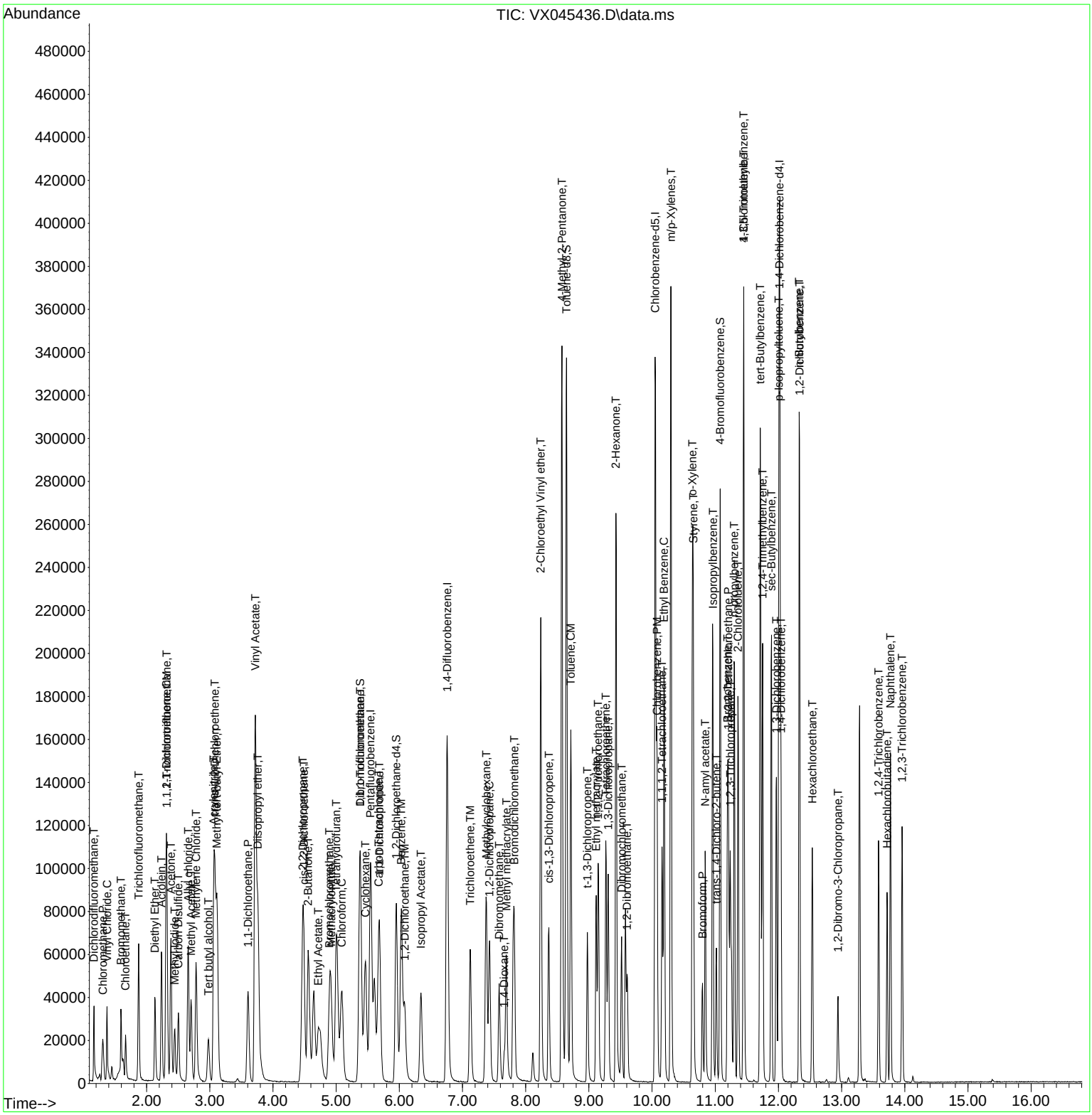
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

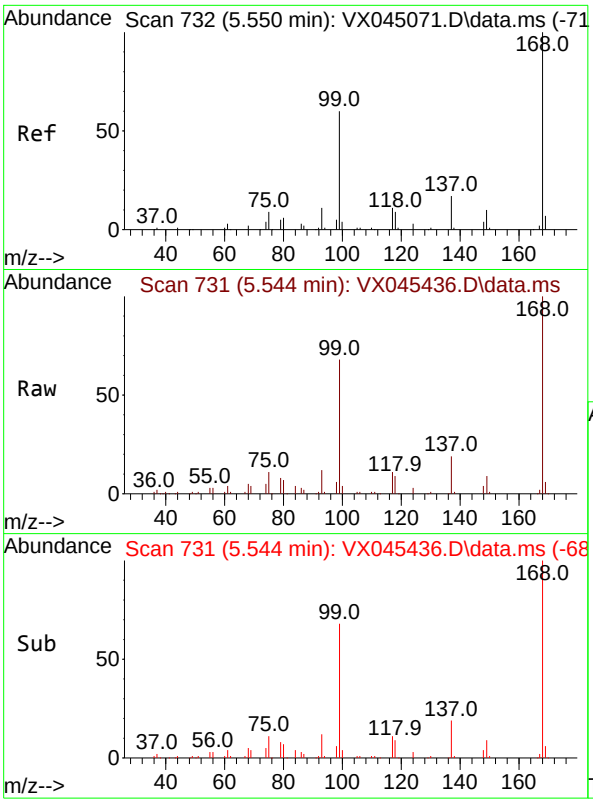
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045436.D
Acq On : 25 Mar 2025 13:35
Operator : JC/MD
Sample : VX0325WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Quant Time: Mar 26 01:37:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



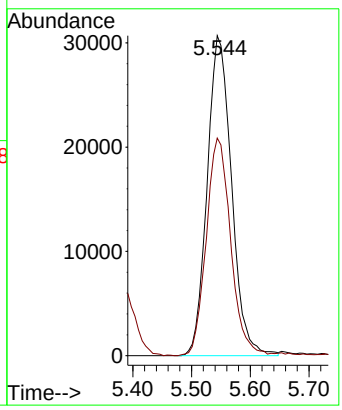


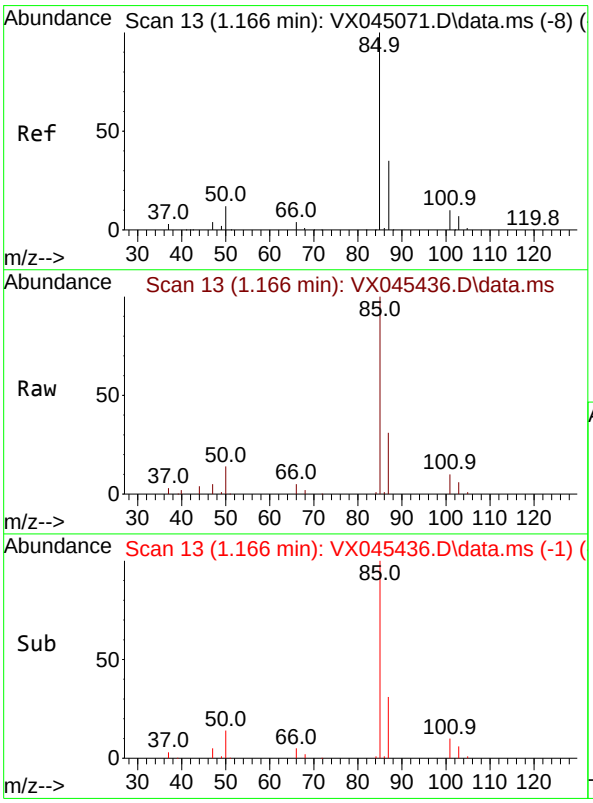
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:168 Resp: 88260

Ion	Ratio	Lower	Upper
168	100		
99	68.0	48.2	72.4

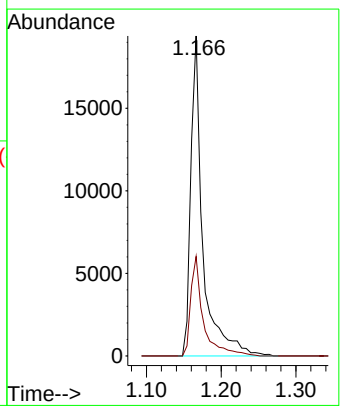


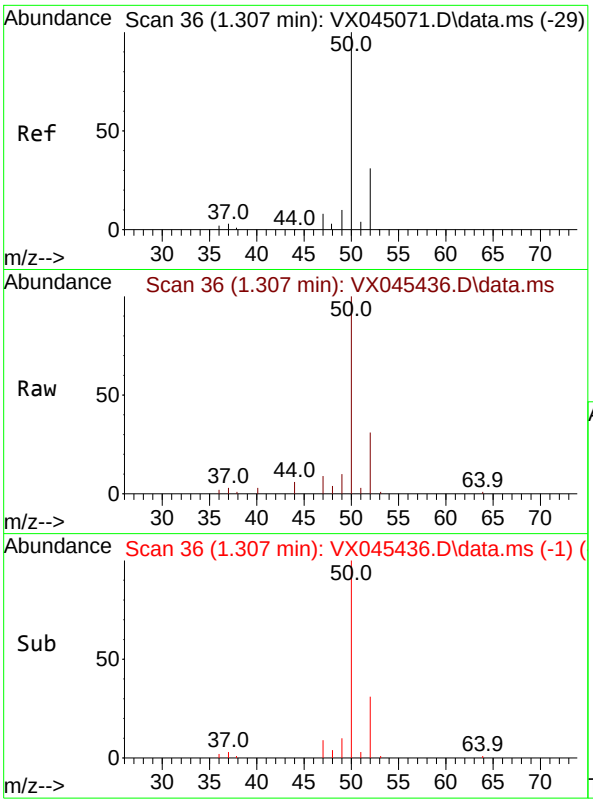


#2
Dichlorodifluoromethane
Concen: 19.473 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 85 Resp: 21634

Ion	Ratio	Lower	Upper
85	100		
87	31.1	17.4	52.3



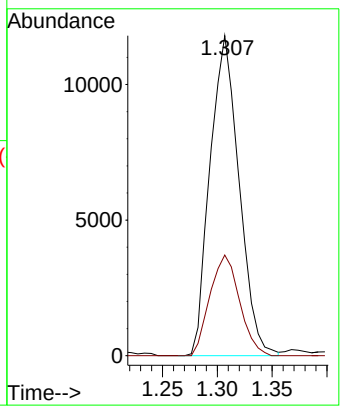


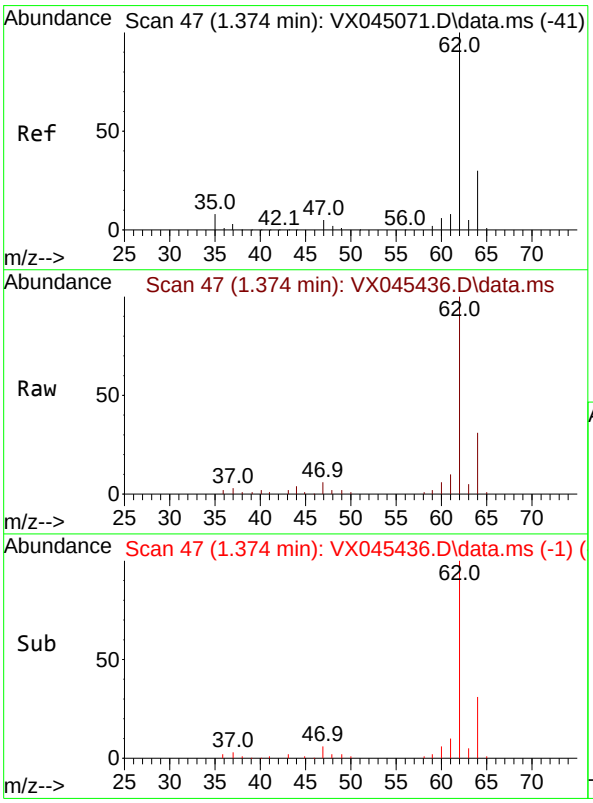
#3
Chloromethane
Concen: 16.008 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 50 Resp: 21765

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.0	37.4

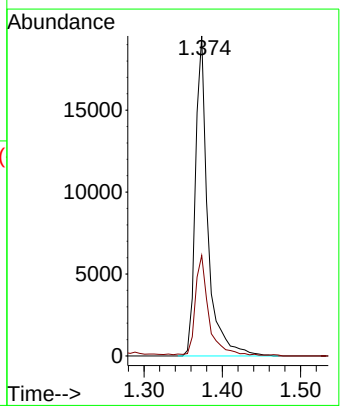


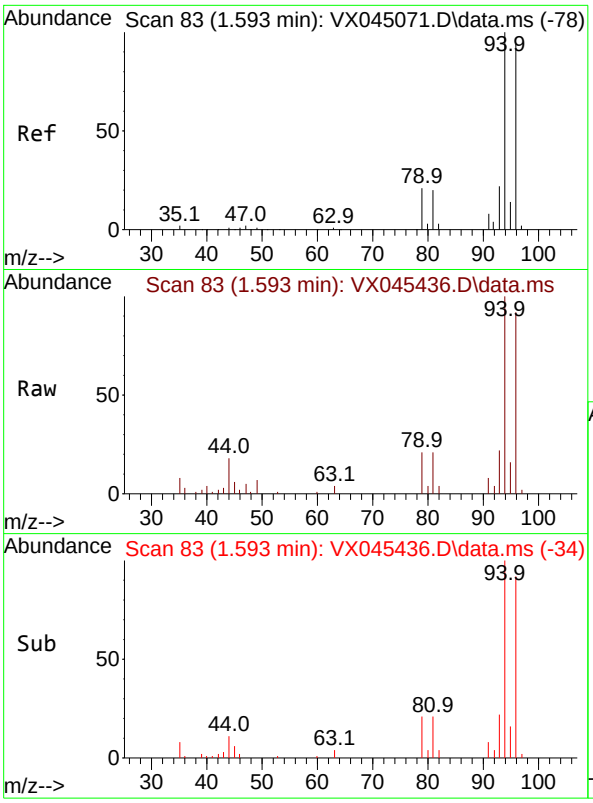


#4
Vinyl Chloride
Concen: 15.950 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 62 Resp: 21512

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.3	36.5



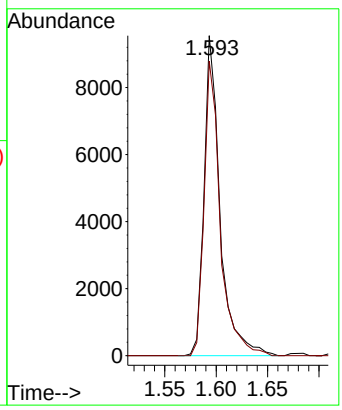


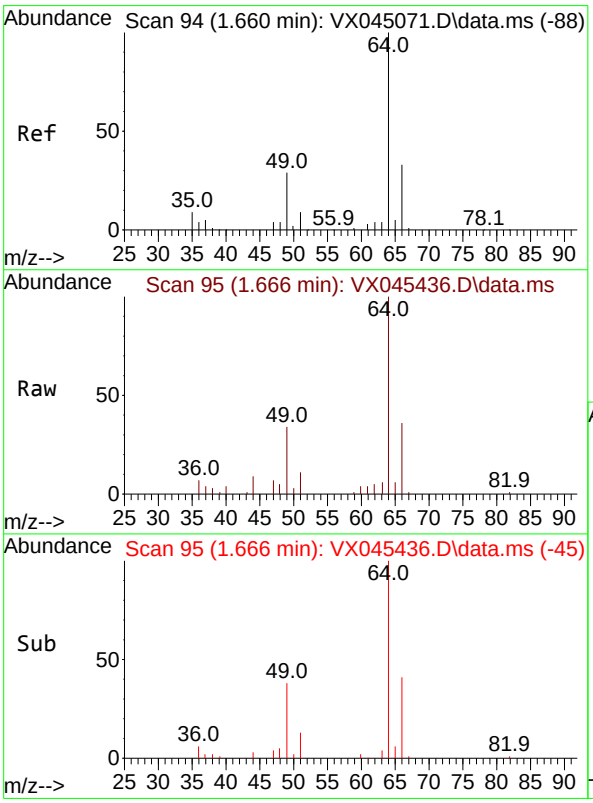
#5
Bromomethane
Concen: 19.558 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 94 Resp: 10370

Ion	Ratio	Lower	Upper
94	100		
96	92.1	75.0	112.4

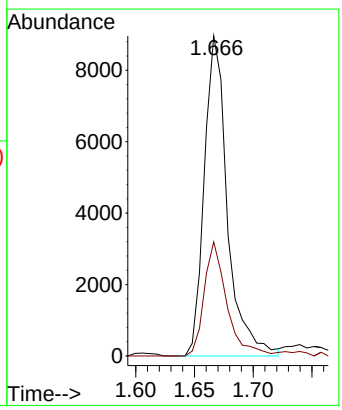


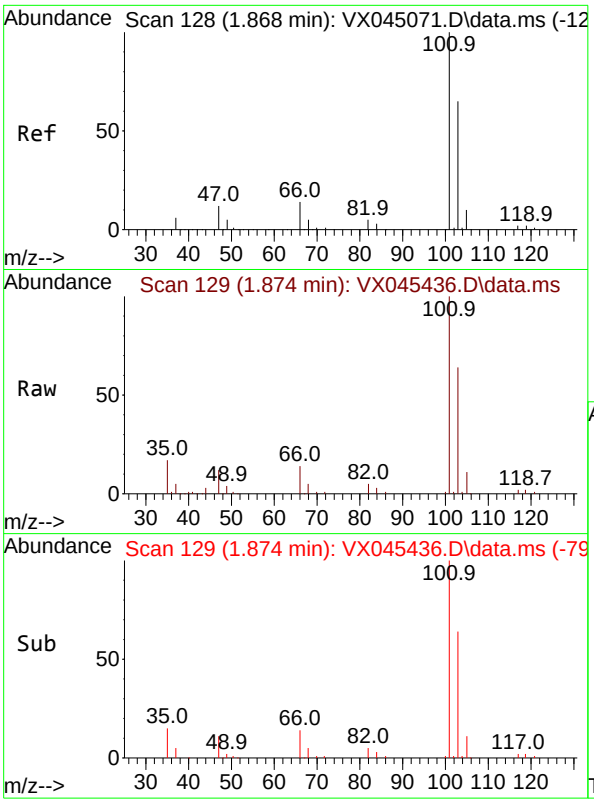


#6
Chloroethane
Concen: 19.726 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 64 Resp: 12272

Ion	Ratio	Lower	Upper
64	100		
66	35.6	26.7	40.1



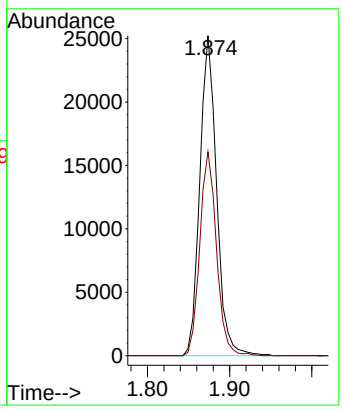


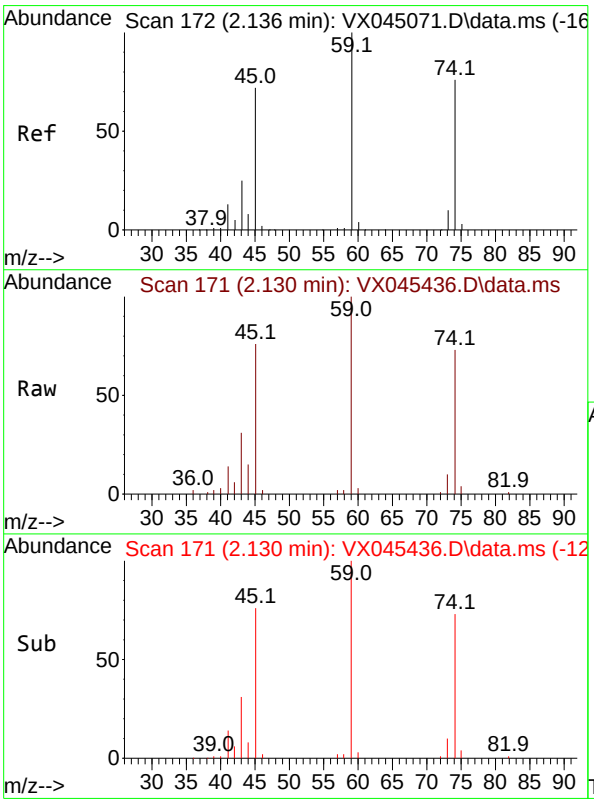
#7
Trichlorofluoromethane
Concen: 20.011 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:101 Resp: 35730

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.1	78.1

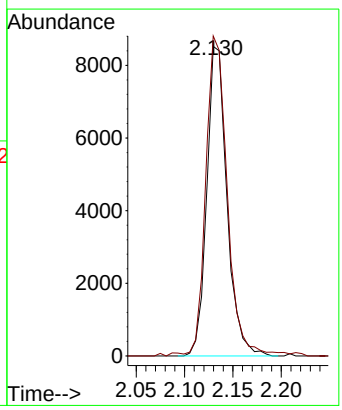


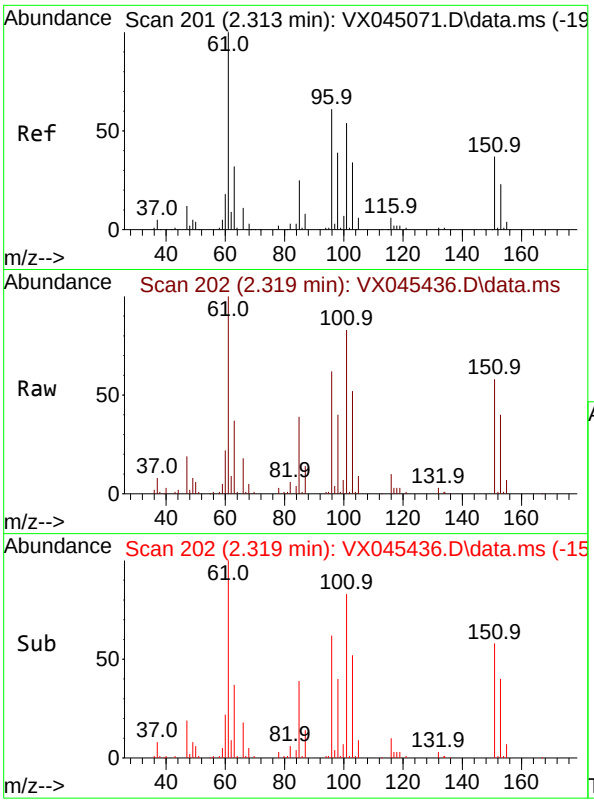


#8
Diethyl Ether
Concen: 17.761 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 74 Resp: 12404

Ion	Ratio	Lower	Upper
74	100		
45	111.0	51.5	154.5



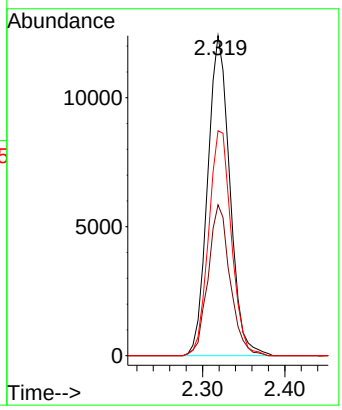


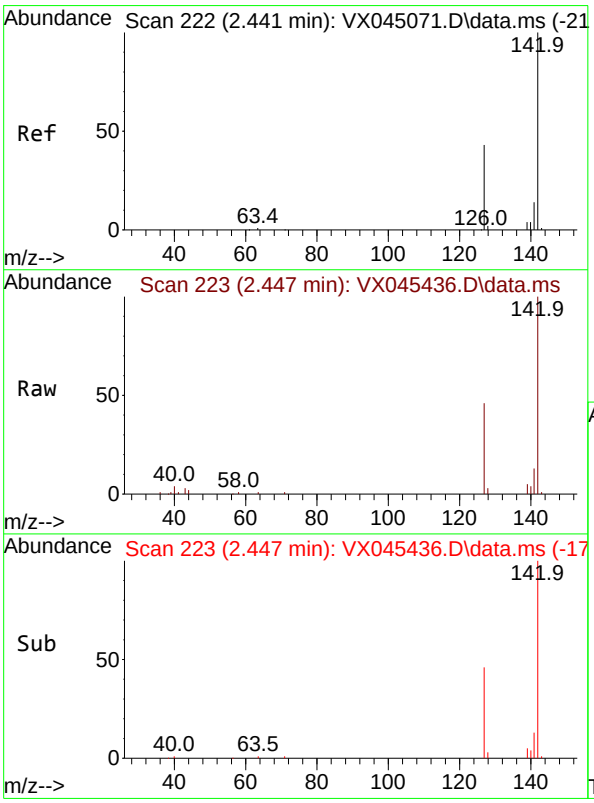
#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.642 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:101 Resp: 23226

Ion	Ratio	Lower	Upper
101	100		
85	46.7	36.2	54.4
151	72.1	56.4	84.6

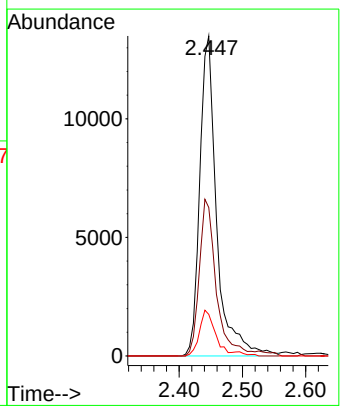


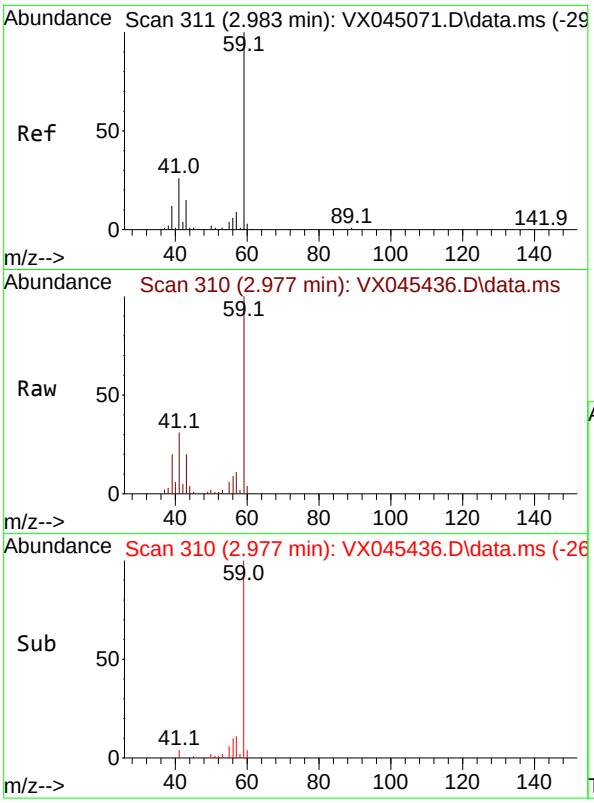


#10
Methyl Iodide
Concen: 19.598 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:142 Resp: 25124

Ion	Ratio	Lower	Upper
142	100		
127	50.2	35.4	53.2
141	13.3	11.6	17.4



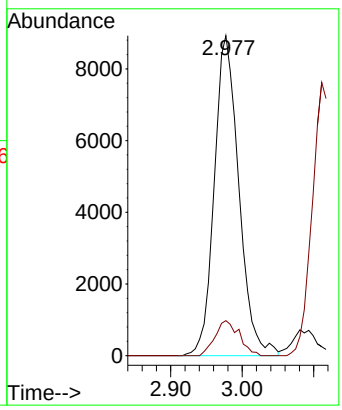


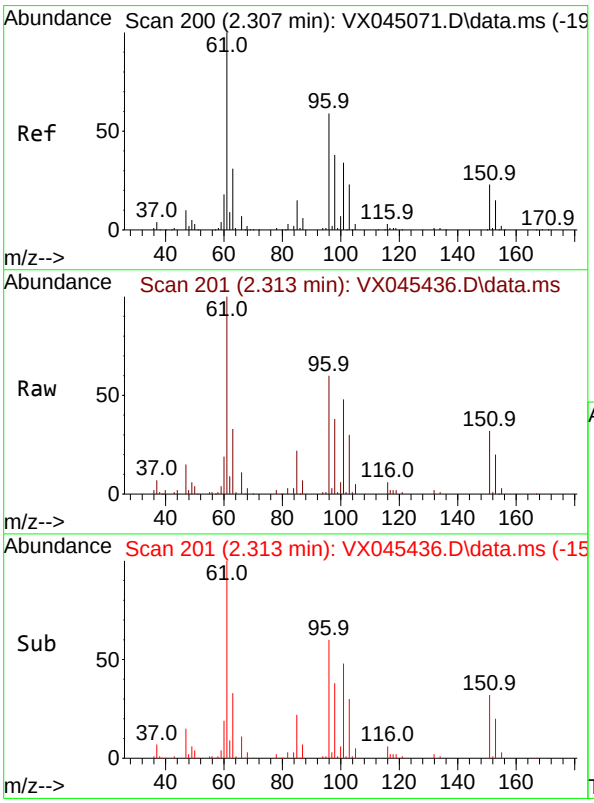
#11
Tert butyl alcohol
Concen: 80.091 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 59 Resp: 21298

Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.8	11.8

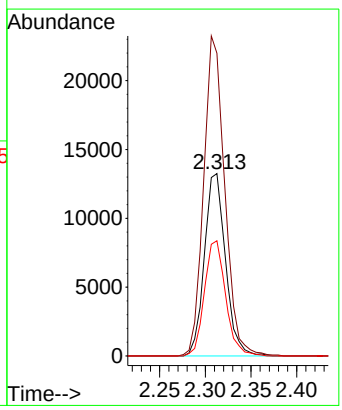


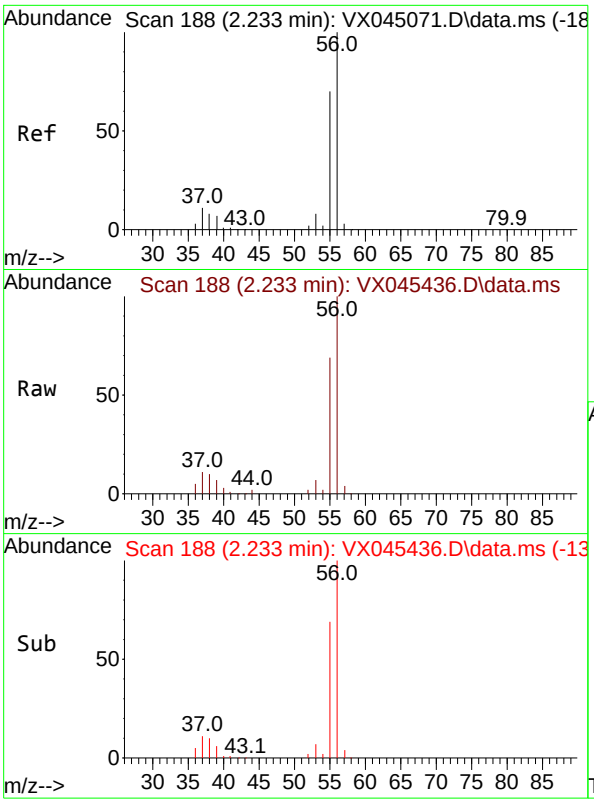


#12
1,1-Dichloroethene
Concen: 19.623 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 96 Resp: 21282

Ion	Ratio	Lower	Upper
96	100		
61	165.9	134.6	202.0
98	63.1	51.0	76.6



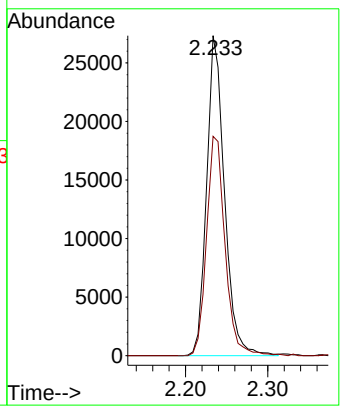


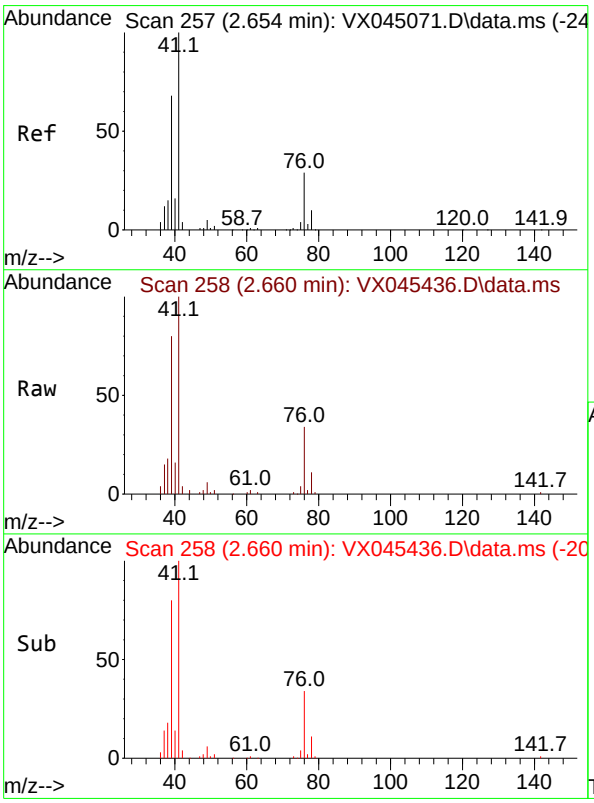
#13
Acrolein
Concen: 133.950 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 56 Resp: 41176

Ion	Ratio	Lower	Upper
56	100		
55	71.2	56.2	84.4

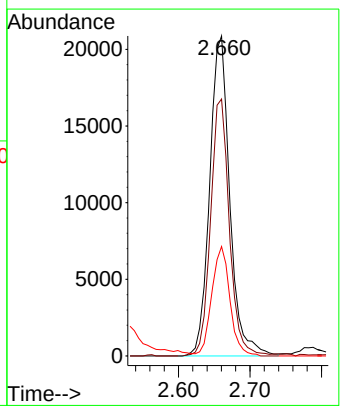


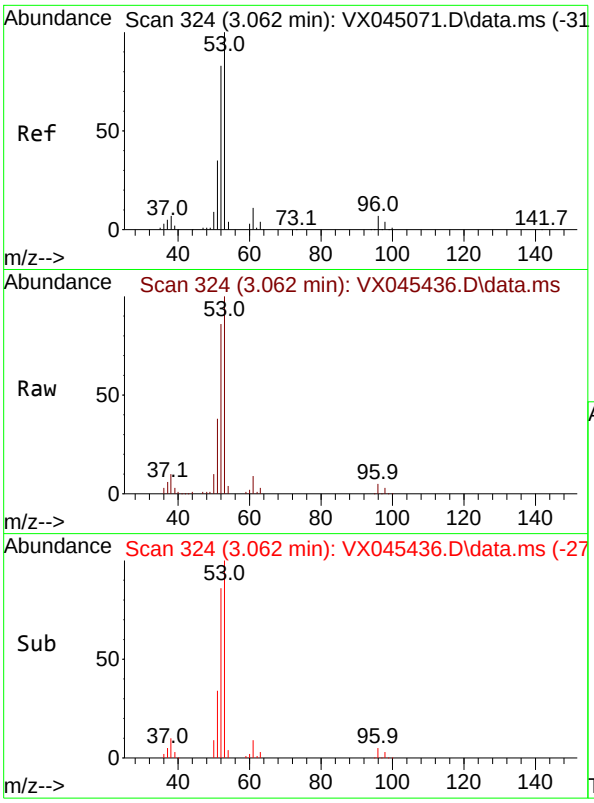


#14
Allyl chloride
Concen: 21.110 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 41 Resp: 40753

Ion	Ratio	Lower	Upper
41	100		
39	75.2	53.8	80.8
76	30.8	25.2	37.8



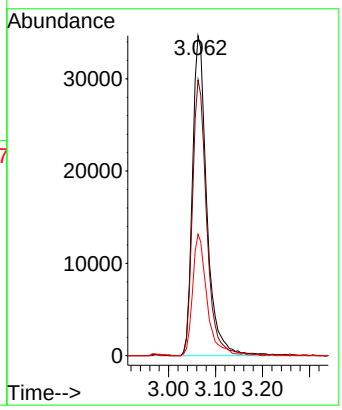


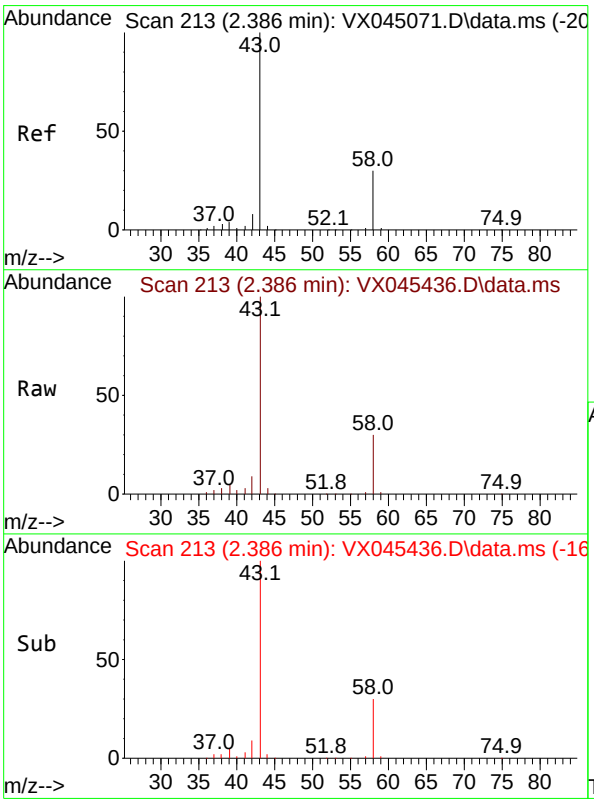
#15
Acrylonitrile
Concen: 103.983 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 53 Resp: 74109

Ion	Ratio	Lower	Upper
53	100		
52	85.3	66.2	99.2
51	38.0	29.0	43.4

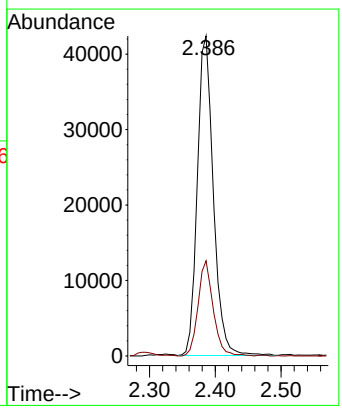


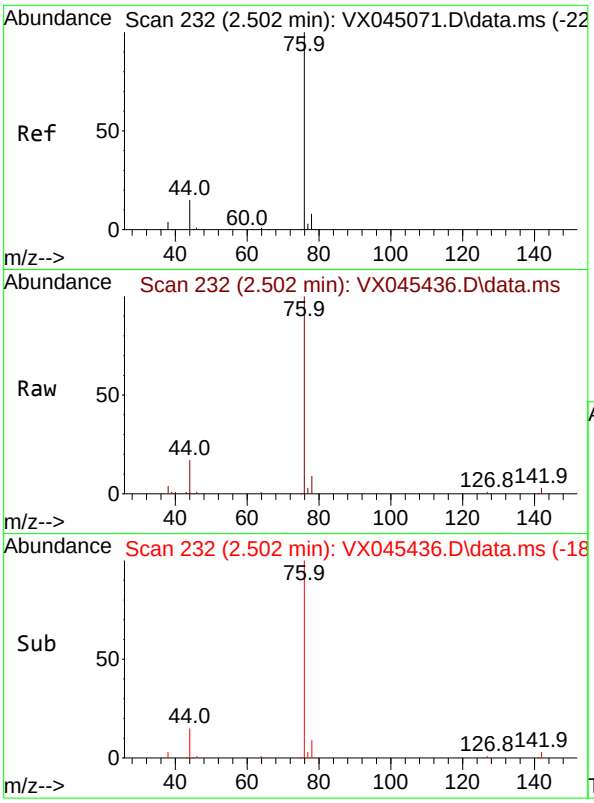


#16
Acetone
Concen: 110.107 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 71720

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.2	36.4



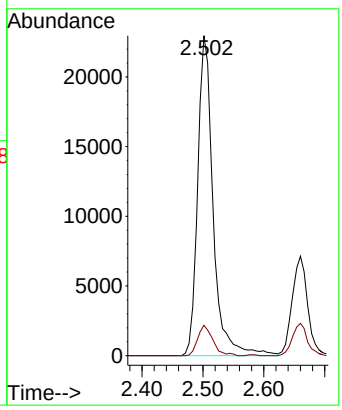


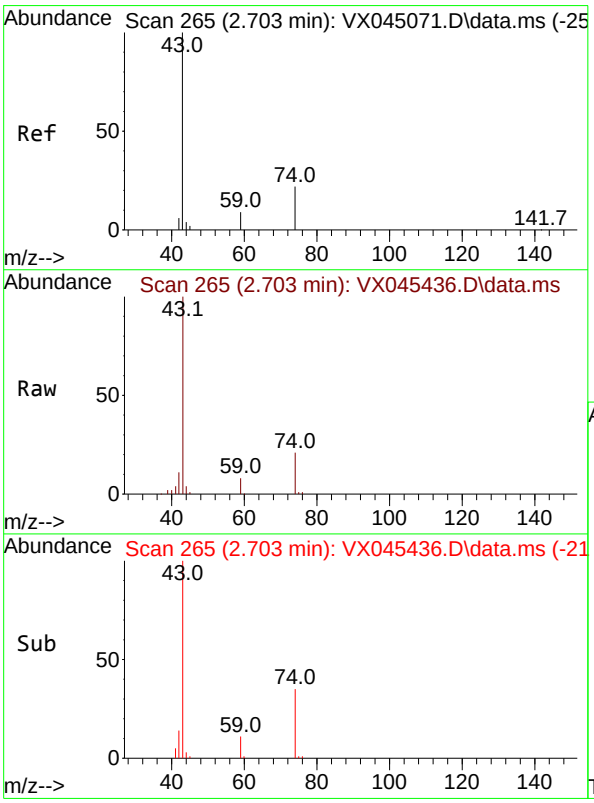
#17
Carbon Disulfide
Concen: 13.988 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 76 Resp: 40407

Ion	Ratio	Lower	Upper
76	100		
78	9.5	6.6	9.8

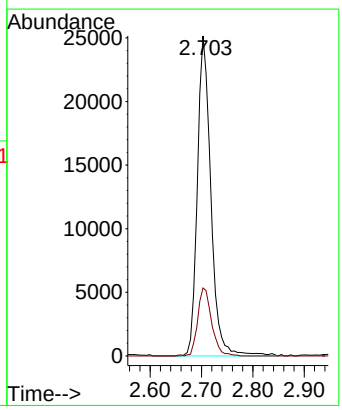


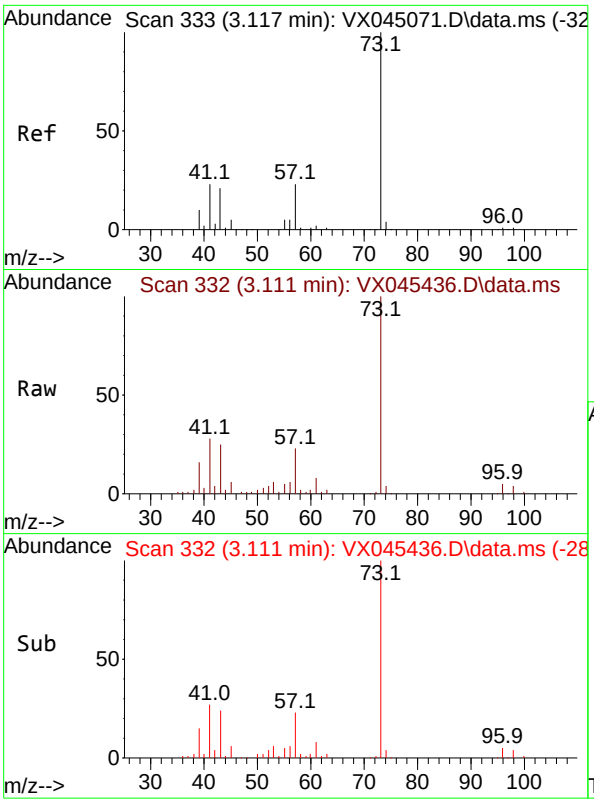


#18
Methyl Acetate
Concen: 29.376 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 46032

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



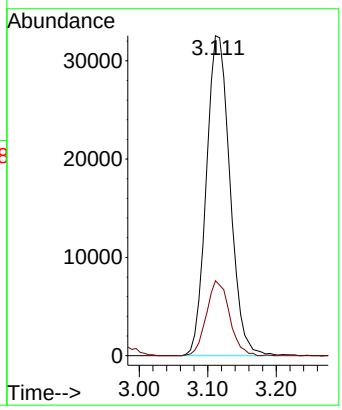


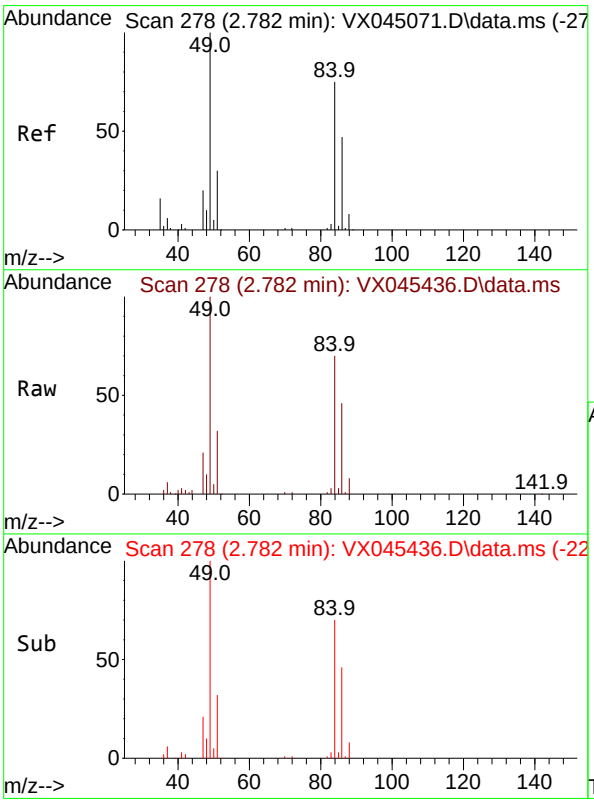
#19
Methyl tert-butyl Ether
Concen: 21.473 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 73 Resp: 78132

Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.5	27.7

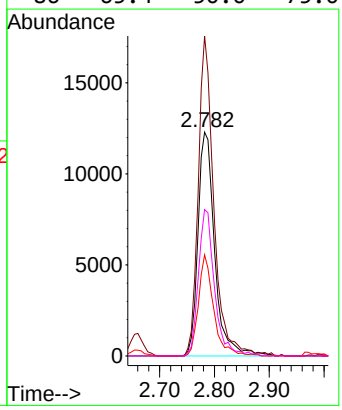


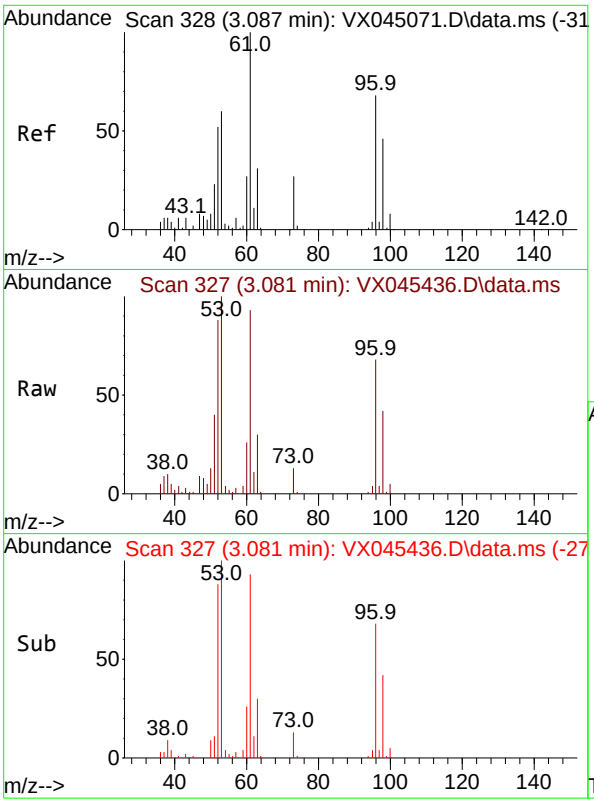


#20
Methylene Chloride
Concen: 20.238 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 84 Resp: 26113

Ion	Ratio	Lower	Upper
84	100		
49	143.0	106.5	159.7
51	45.2	32.1	48.1
86	65.4	50.0	75.0



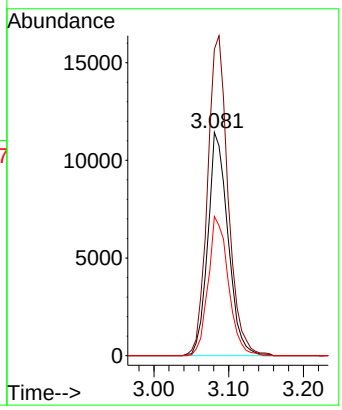


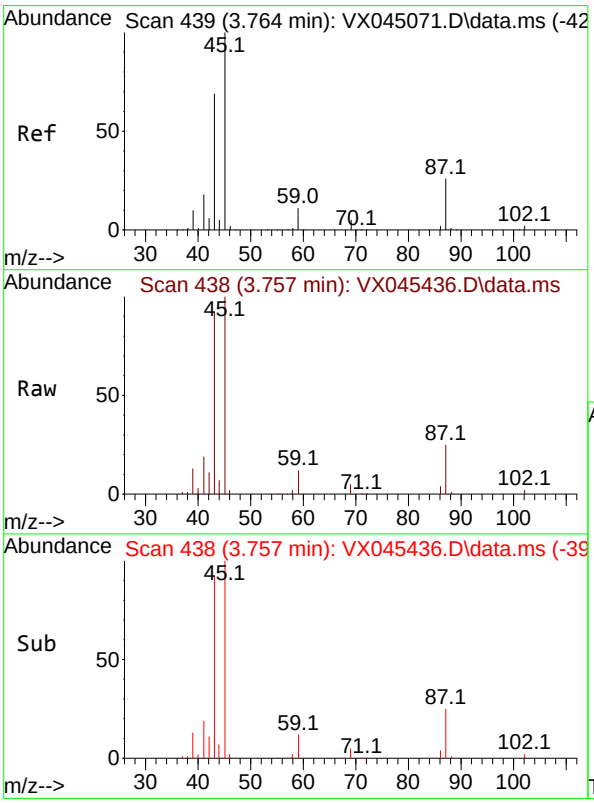
#21
trans-1,2-Dichloroethene
Concen: 20.072 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 96 Resp: 21506

Ion	Ratio	Lower	Upper
96	100		
61	137.2	117.0	175.4
98	62.3	53.4	80.2

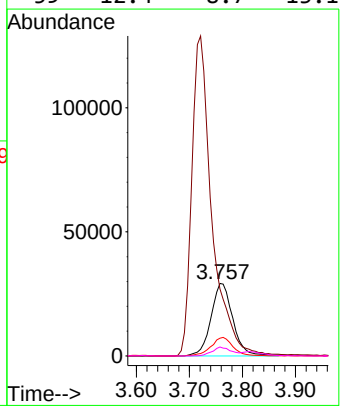


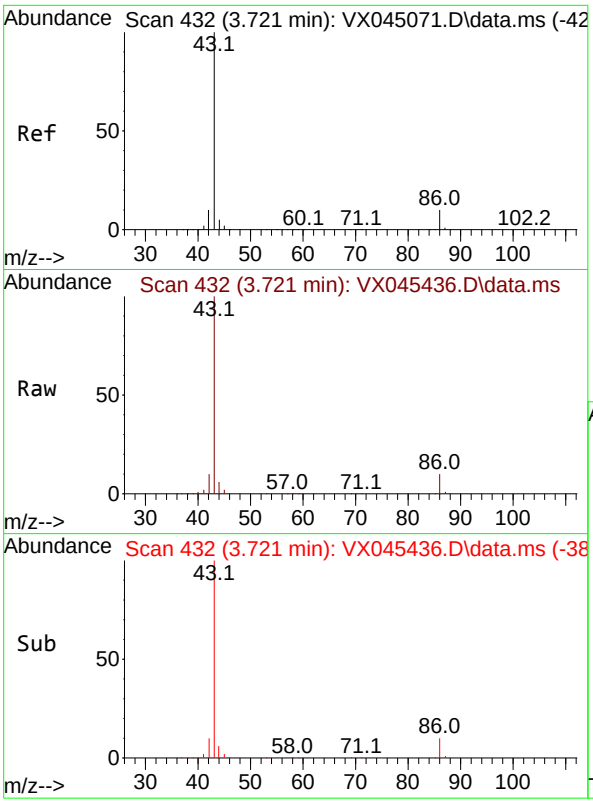


#22
Diisopropyl ether
Concen: 21.242 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 45 Resp: 83401

Ion	Ratio	Lower	Upper
45	100		
43	91.4	54.9	82.3#
87	24.6	21.0	31.4
59	12.4	8.7	13.1



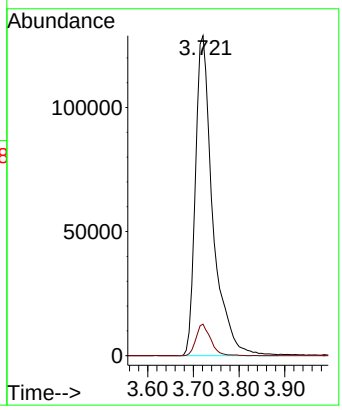


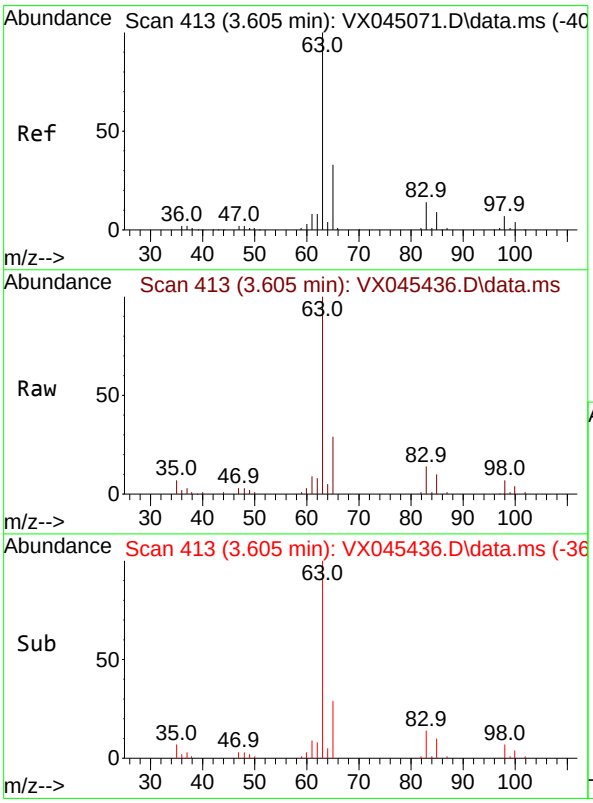
#23
Vinyl Acetate
Concen: 104.034 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 43 Resp: 340859

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

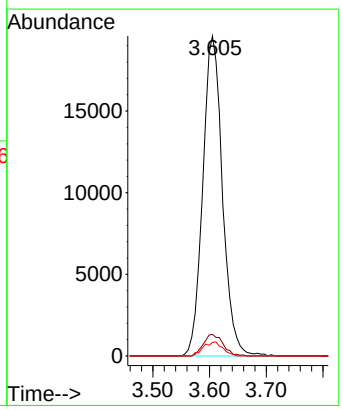


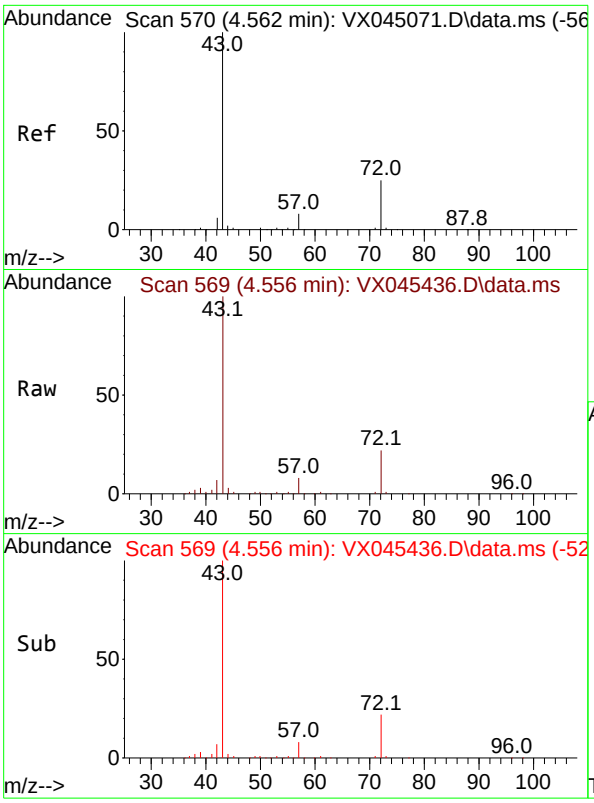


#24
1,1-Dichloroethane
Concen: 21.451 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 63 Resp: 47200

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.3	2.1	6.5



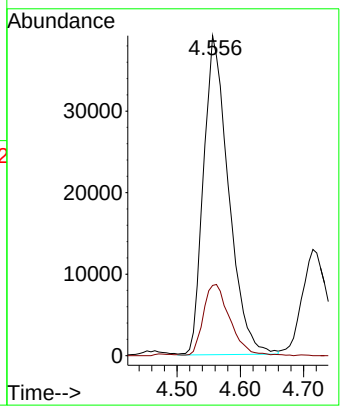


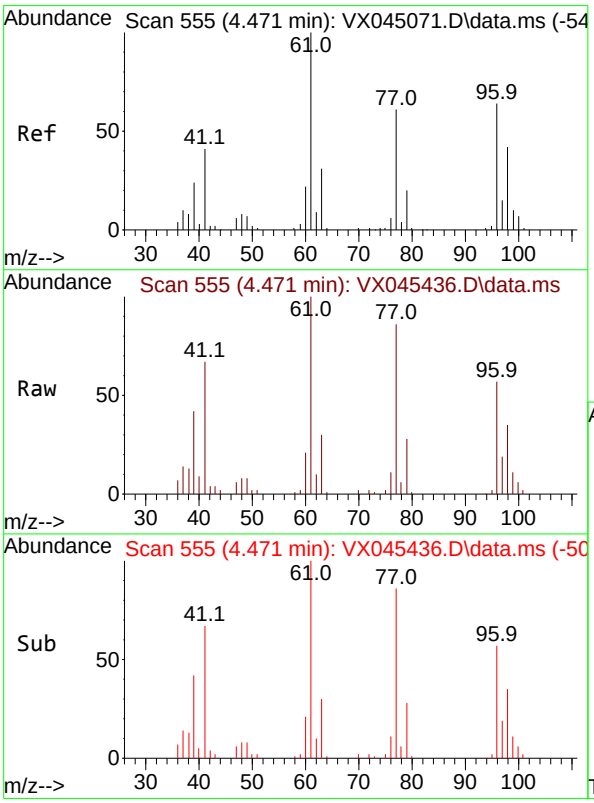
#25
2-Butanone
Concen: 110.005 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 43 Resp: 107857

Ion	Ratio	Lower	Upper
43	100		
72	21.8	20.0	30.0

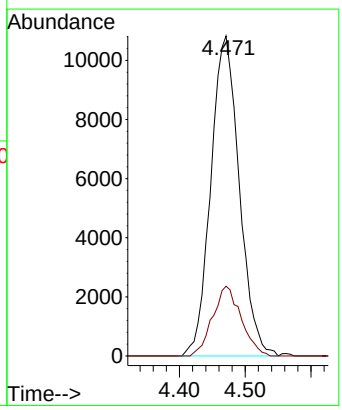


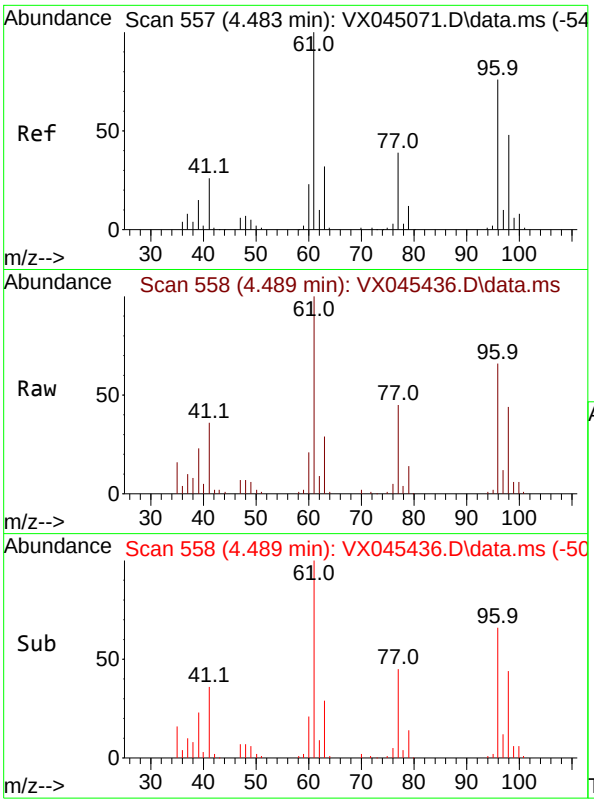


#26
2,2-Dichloropropane
Concen: 31.616 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 77 Resp: 32630

Ion	Ratio	Lower	Upper
77	100		
97	21.8	12.4	37.0



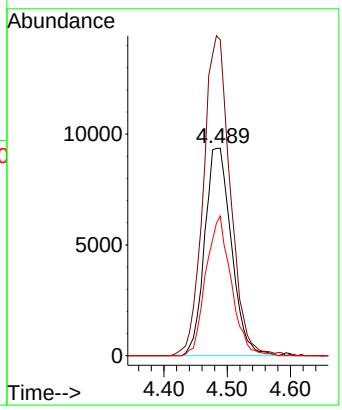


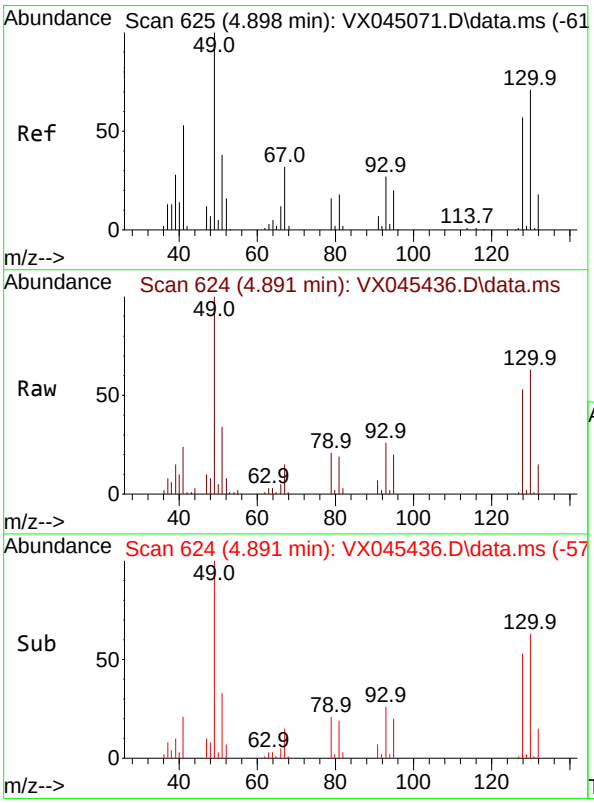
#27
cis-1,2-Dichloroethene
Concen: 20.781 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 96 Resp: 27486

Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	283.2
98	63.7	0.0	128.0

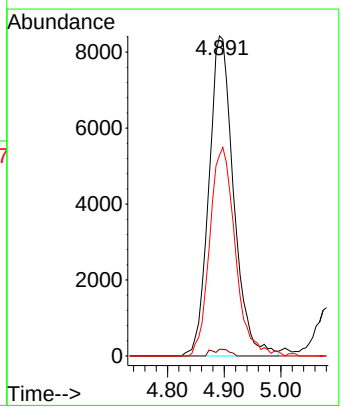


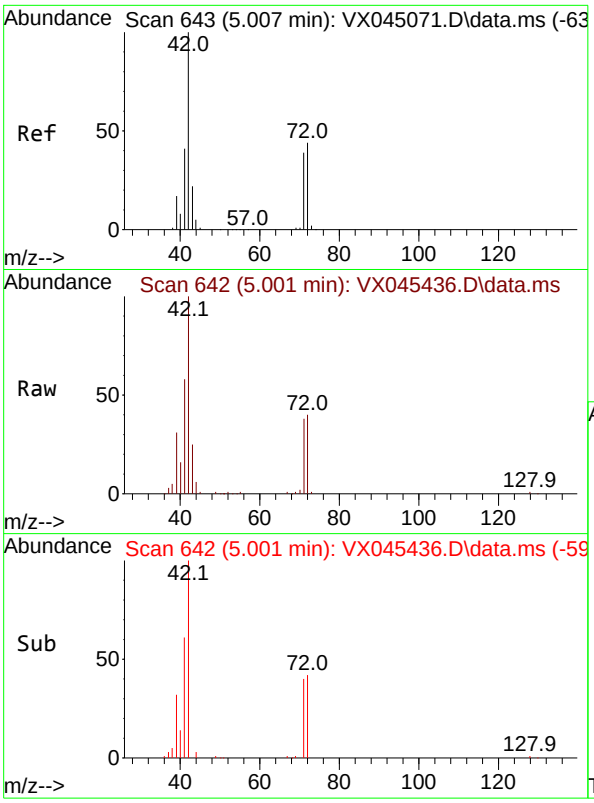


#28
Bromochloromethane
Concen: 24.329 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 49 Resp: 25516

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.4
130	66.8	56.1	84.1



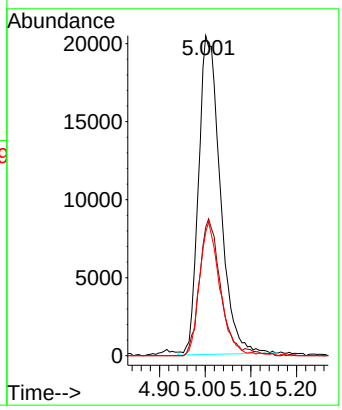


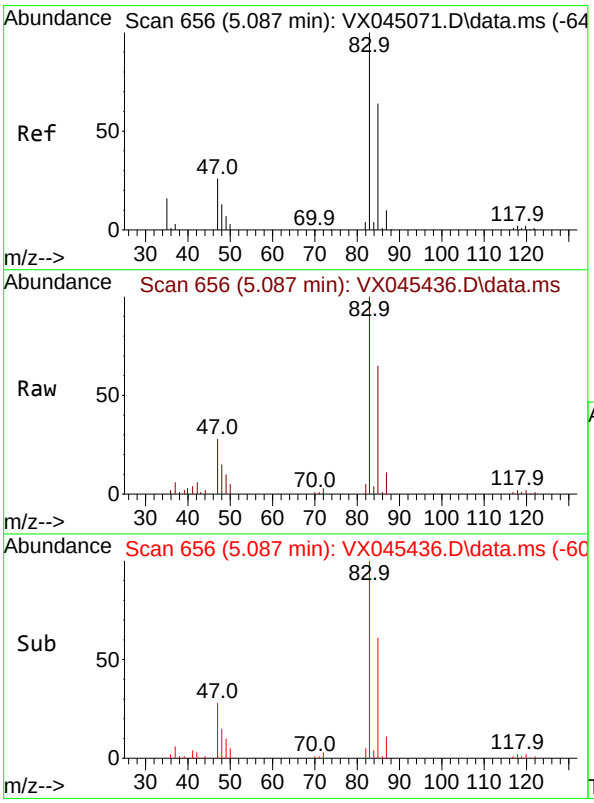
#29
Tetrahydrofuran
Concen: 102.332 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 42 Resp: 67379

Ion	Ratio	Lower	Upper
42	100		
72	40.8	34.1	51.1
71	39.6	31.4	47.0

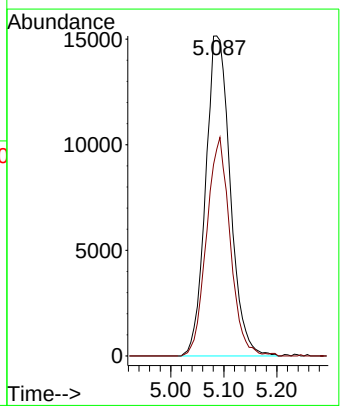


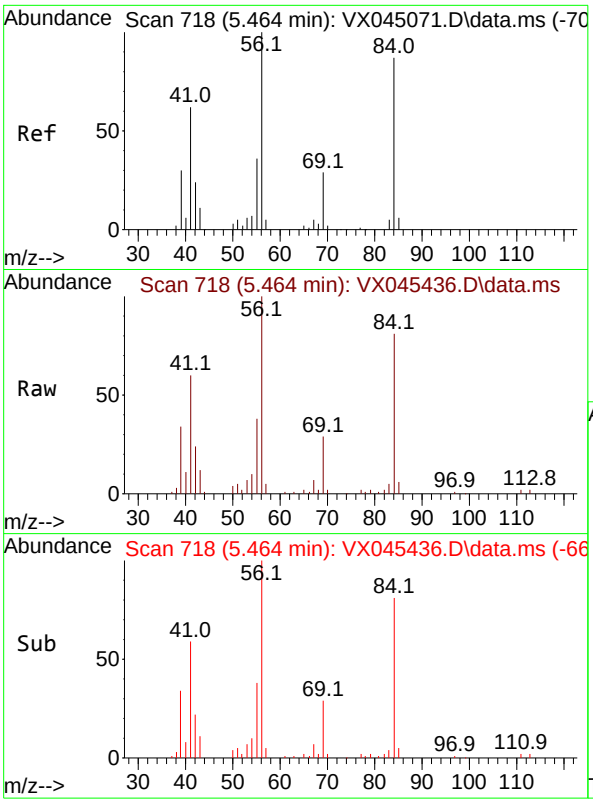


#30
Chloroform
Concen: 22.337 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 83 Resp: 48836

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.4	77.2



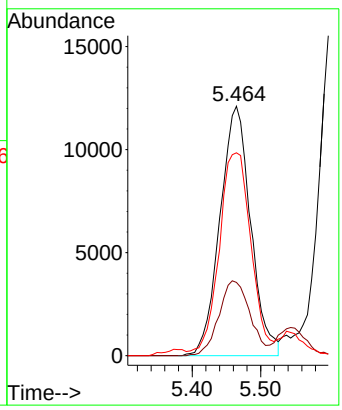


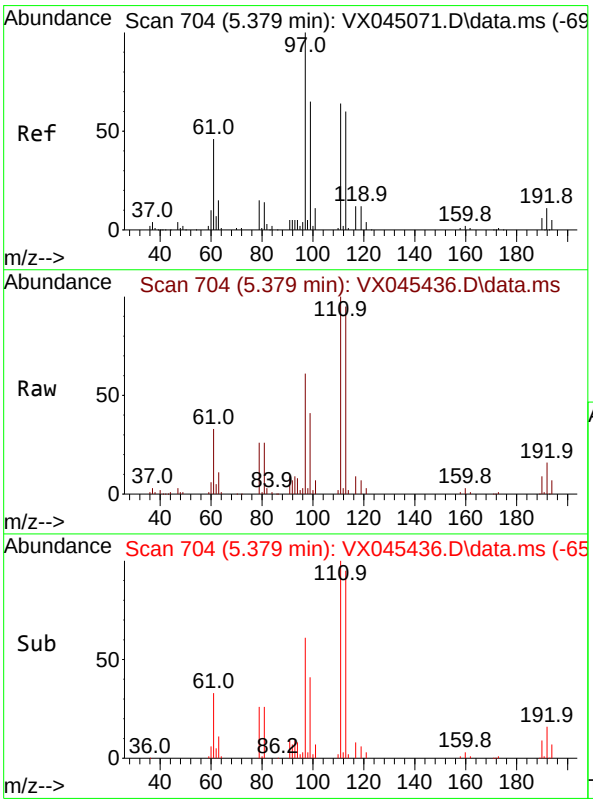
#31
Cyclohexane
Concen: 19.749 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 56 Resp: 37722

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.4	35.2
84	78.9	69.4	104.2

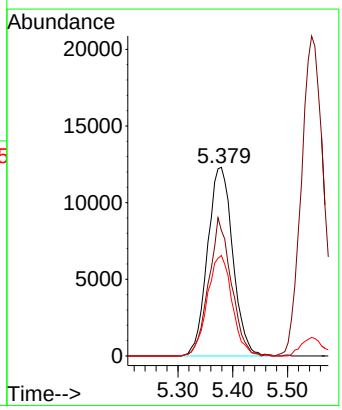


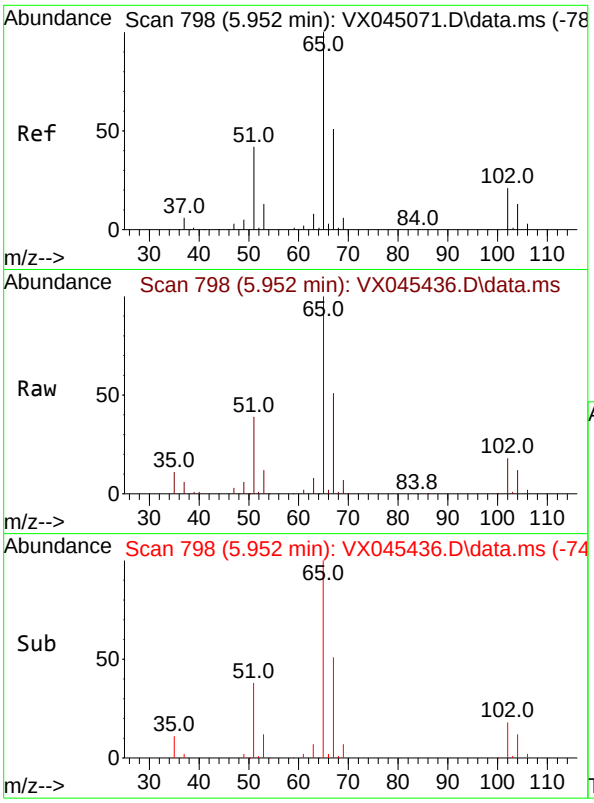


#32
1,1,1-Trichloroethane
Concen: 22.298 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 97 Resp: 39374

Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.6	77.4
61	52.6	38.4	57.6



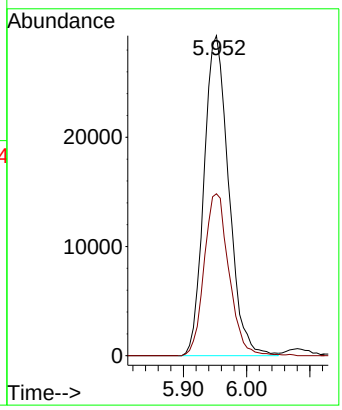


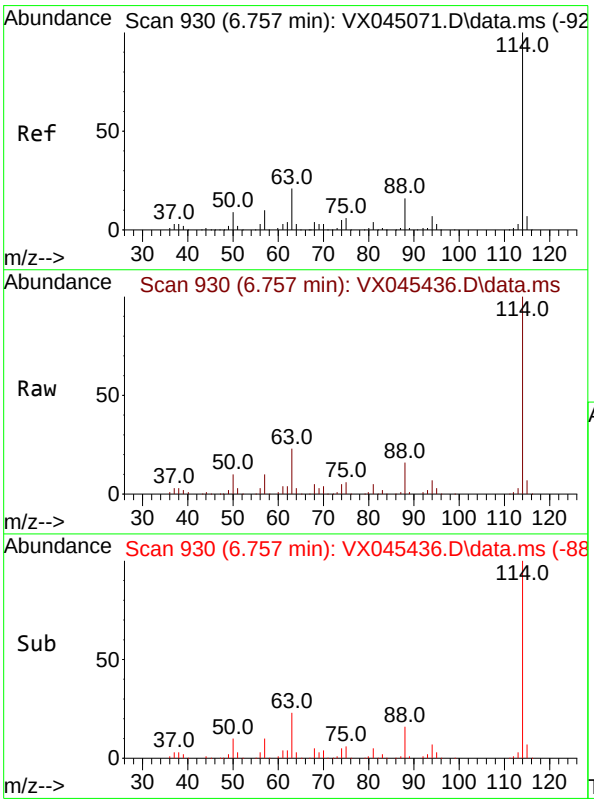
#33
1,2-Dichloroethane-d4
Concen: 56.626 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 65 Resp: 79497

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	106.2

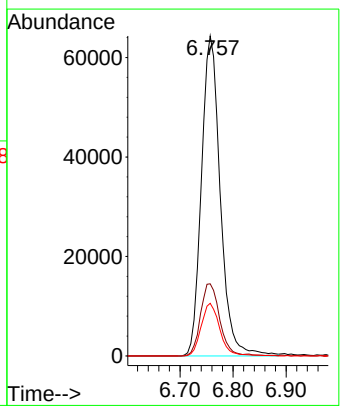


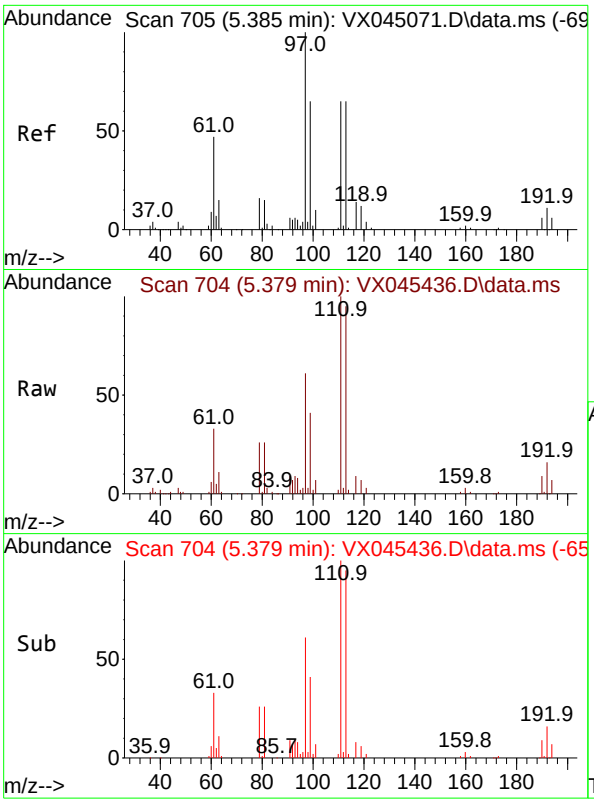


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:114 Resp: 159282

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	41.8
88	16.5	0.0	32.8



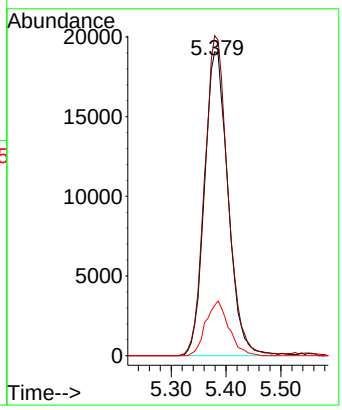


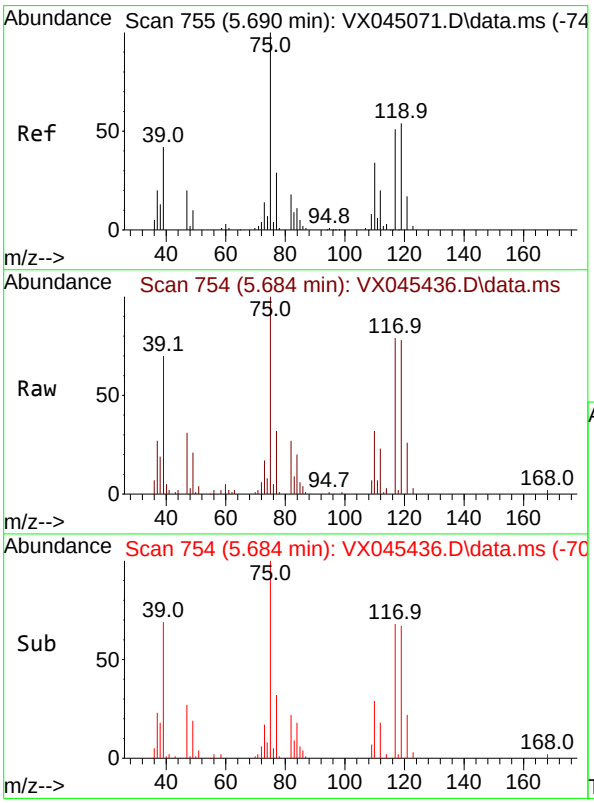
#35
Dibromofluoromethane
Concen: 53.413 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:113 Resp: 56889

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.8	122.6
192	17.6	14.3	21.5

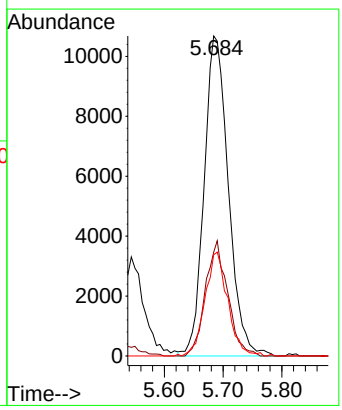


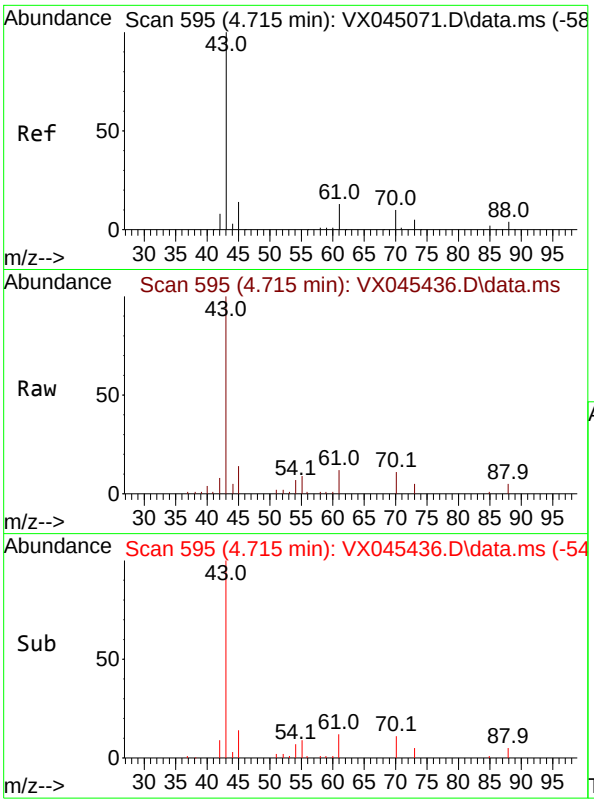


#36
1,1-Dichloropropene
Concen: 20.998 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 30671

Ion	Ratio	Lower	Upper
75	100		
110	33.1	16.9	50.6
77	30.4	24.5	36.7



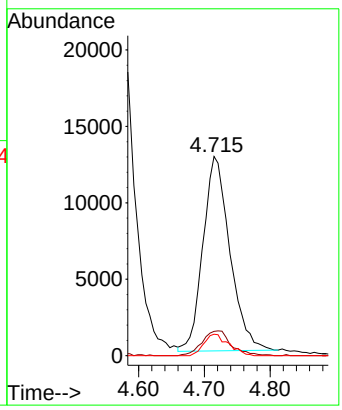


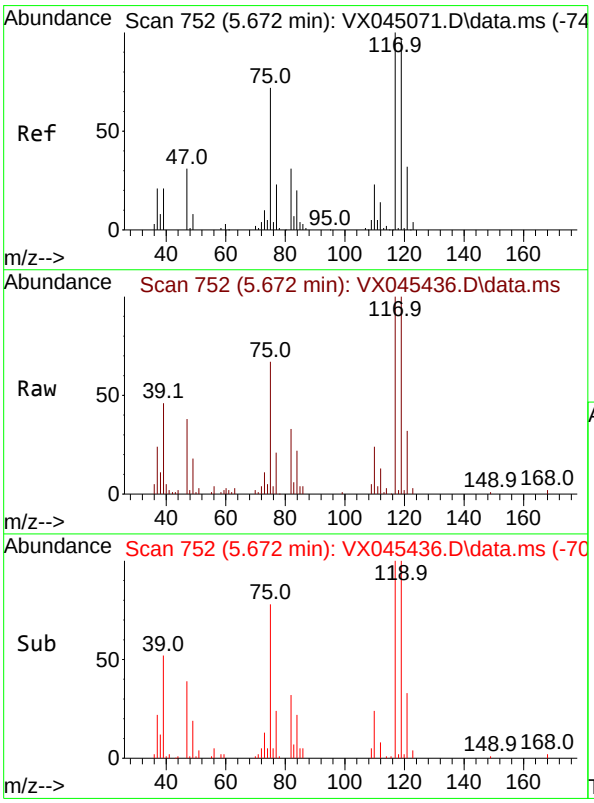
#37
Ethyl Acetate
Concen: 19.253 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 43 Resp: 36236

Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.8	16.2
70	10.2	7.7	11.5

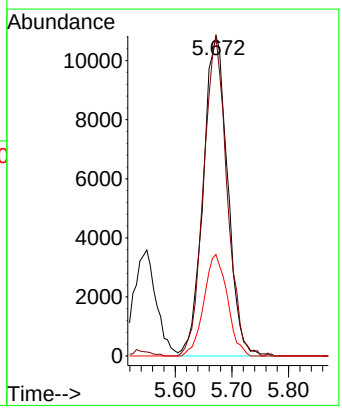


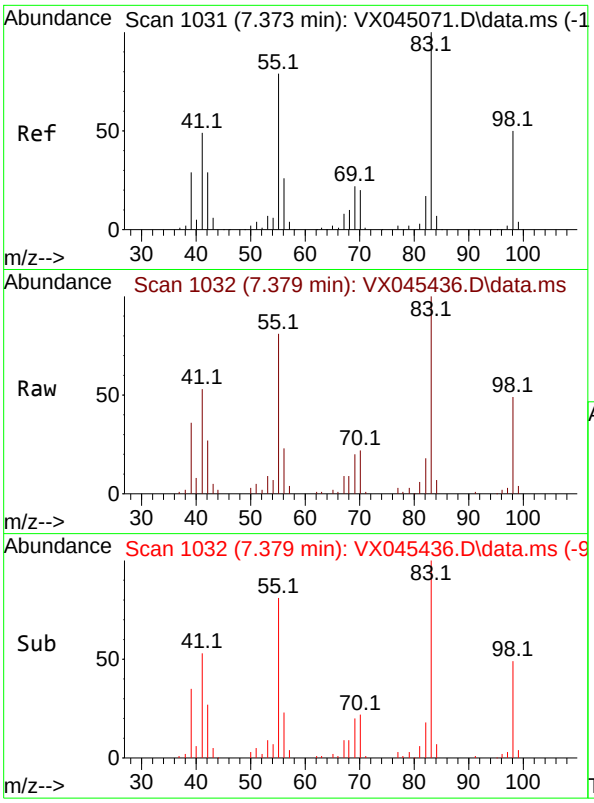


#38
Carbon Tetrachloride
Concen: 21.844 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:117 Resp: 32393

Ion	Ratio	Lower	Upper
117	100		
119	99.8	76.7	115.1
121	31.7	25.5	38.3



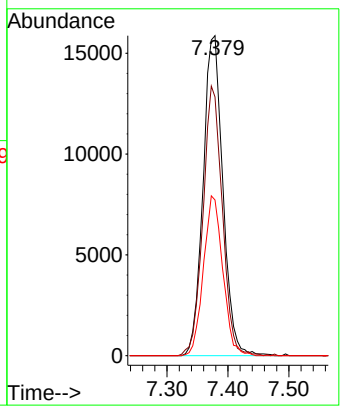


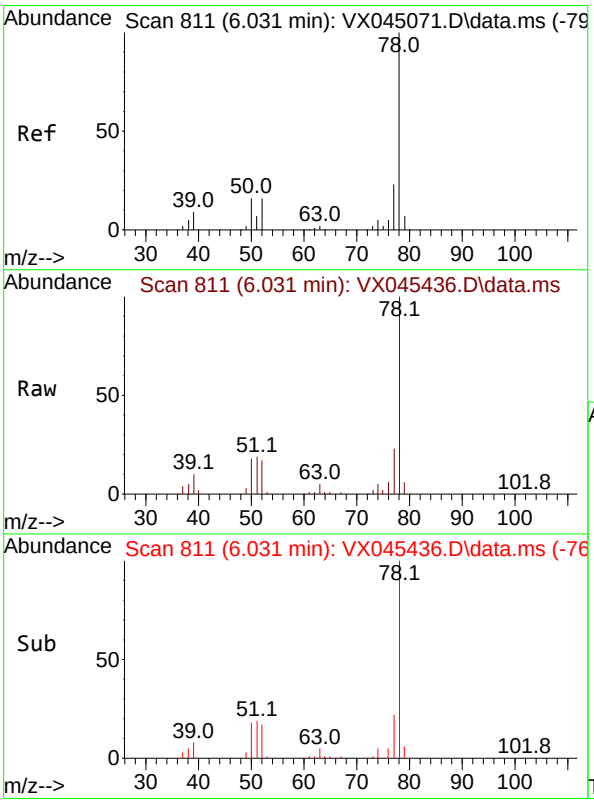
#39
Methylcyclohexane
Concen: 20.495 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 83 Resp: 35870

Ion	Ratio	Lower	Upper
83	100		
55	80.9	63.0	94.4
98	48.7	39.7	59.5

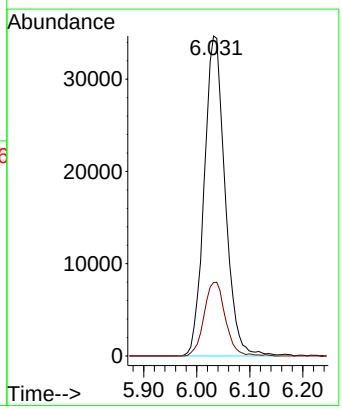


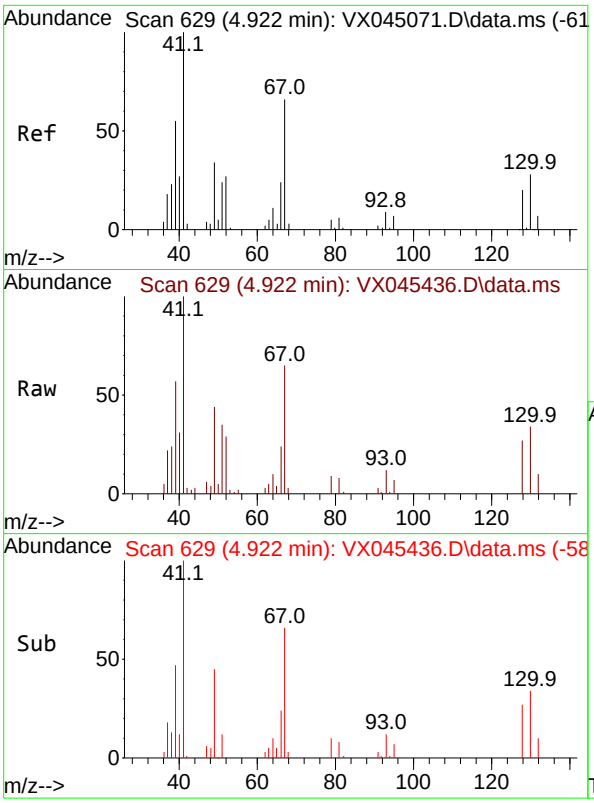


#40
Benzene
Concen: 20.503 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 78 Resp: 94569

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.8	28.2



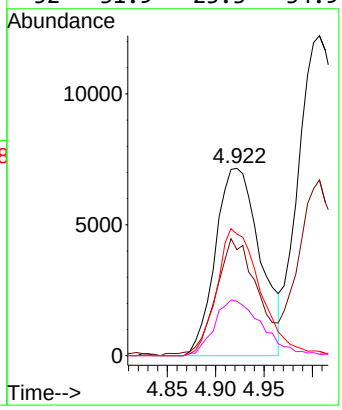


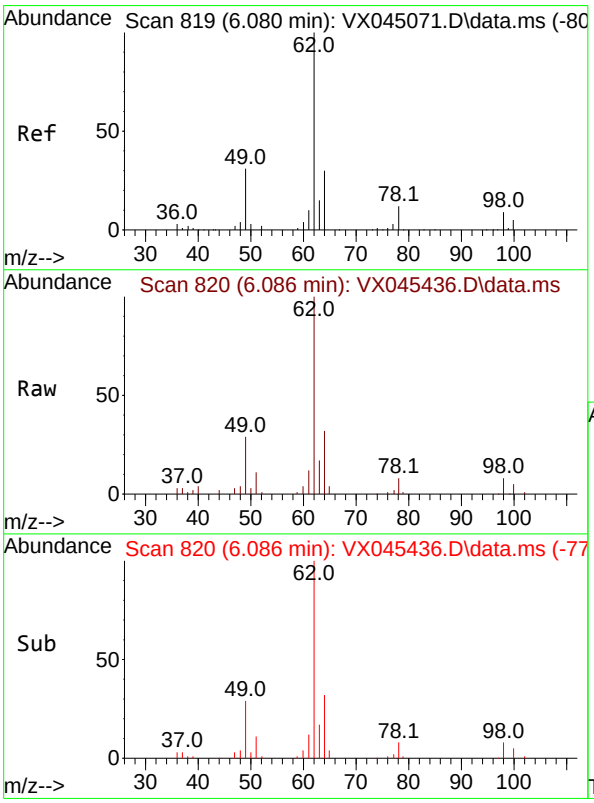
#41
Methacrylonitrile
Concen: 22.585 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 41 Resp: 22985

Ion	Ratio	Lower	Upper
41	100		
39	58.1	44.6	67.0
67	66.4	53.9	80.9
52	31.9	23.3	34.9

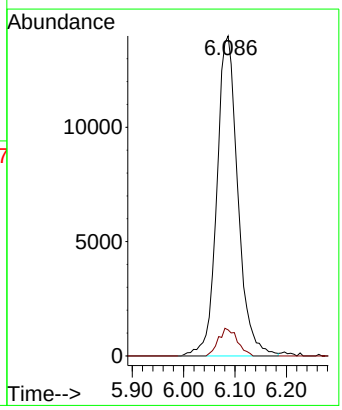


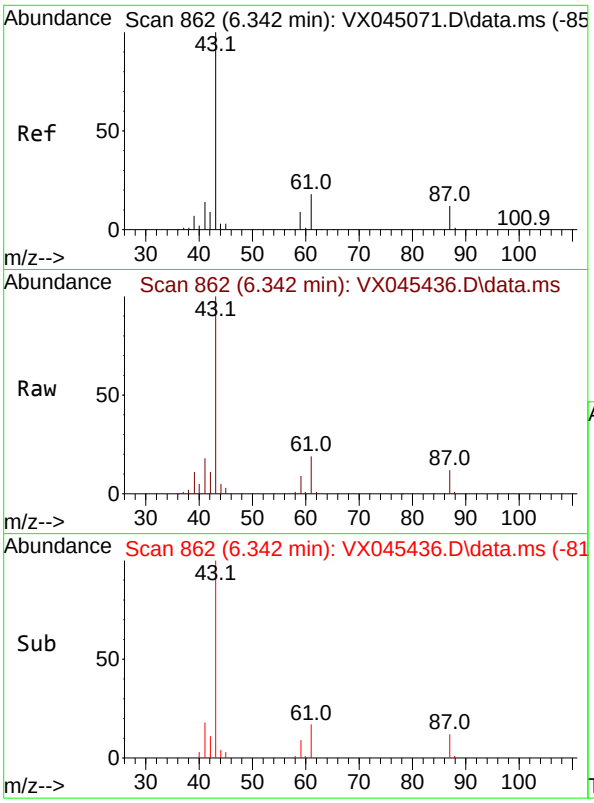


#42
1,2-Dichloroethane
Concen: 23.922 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 62 Resp: 39733

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2



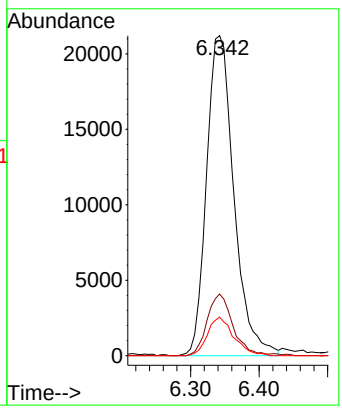


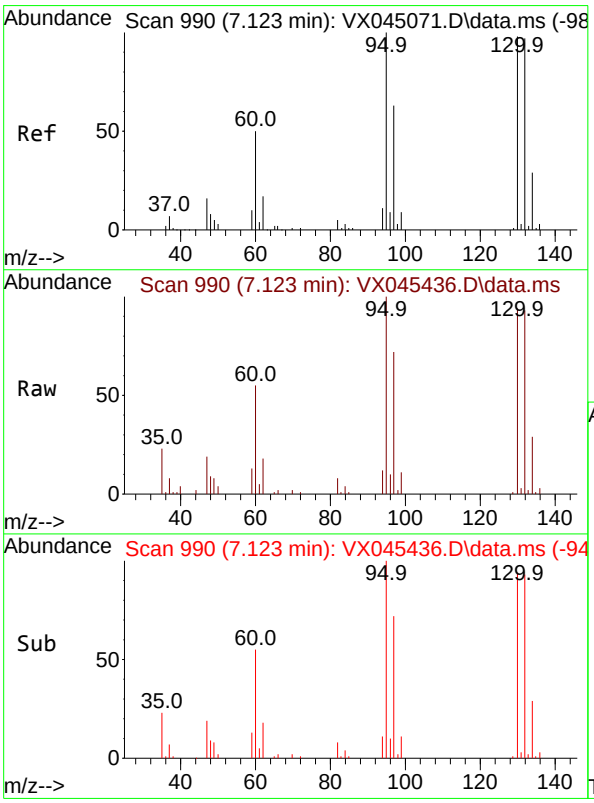
#43
Isopropyl Acetate
Concen: 21.175 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 43 Resp: 58934

Ion	Ratio	Lower	Upper
43	100		
61	18.4	14.9	22.3
87	11.5	9.4	14.2

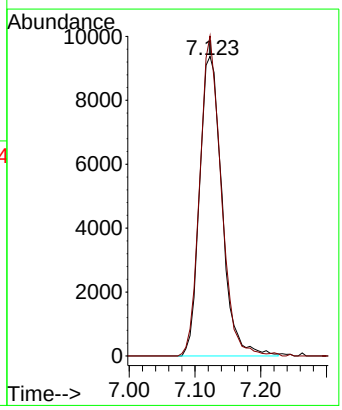


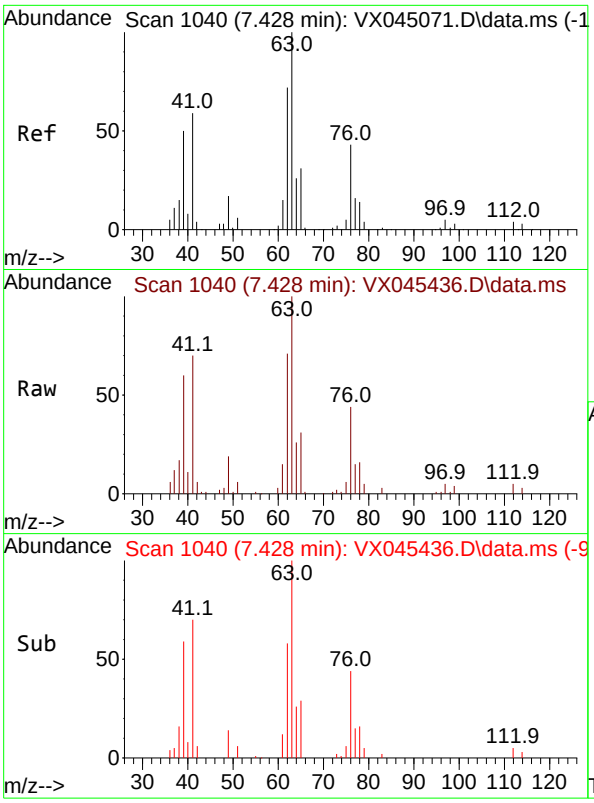


#44
Trichloroethene
Concen: 20.499 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:130 Resp: 22201

Ion	Ratio	Lower	Upper
130	100		
95	106.8	0.0	205.0



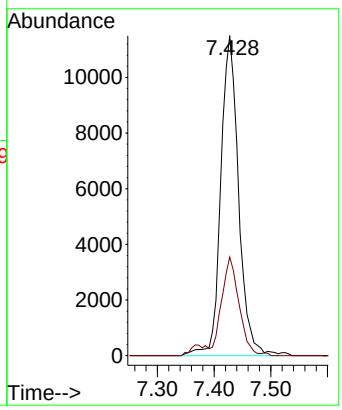


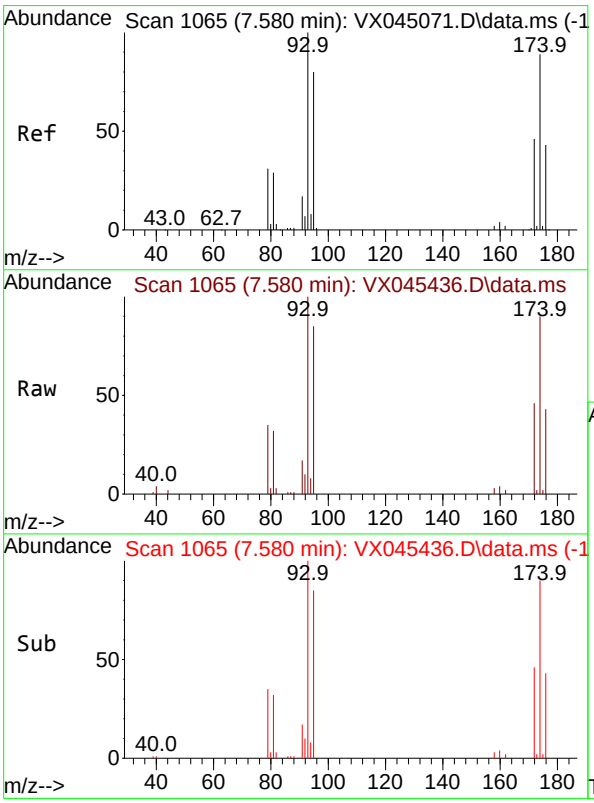
#45
1,2-Dichloropropane
Concen: 21.126 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 63 Resp: 25053

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.7	37.1

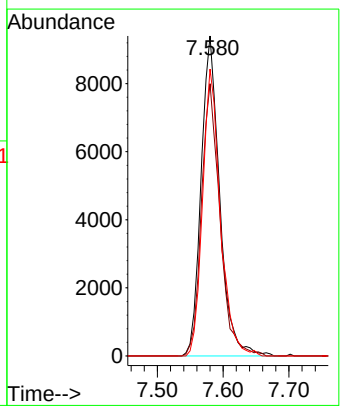


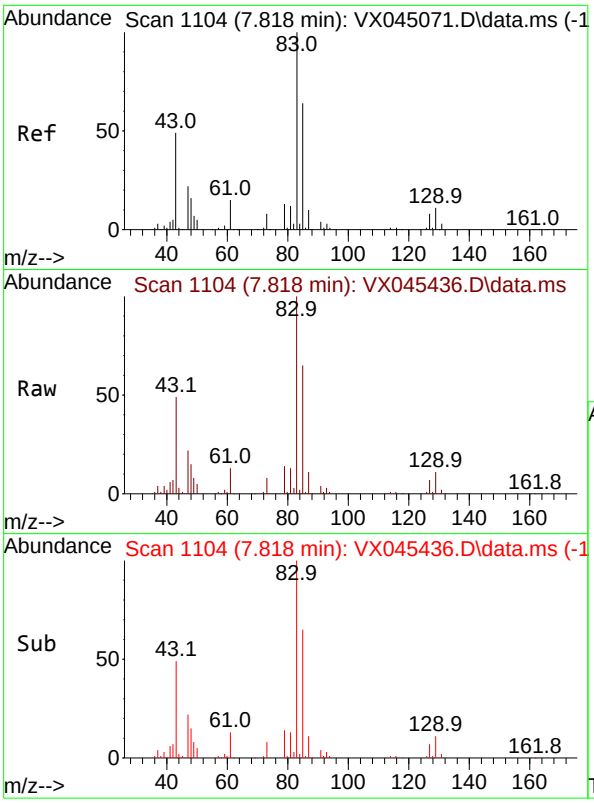


#46
Dibromomethane
Concen: 22.050 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 93 Resp: 18482

Ion	Ratio	Lower	Upper
93	100		
95	84.4	65.8	98.8
174	85.8	72.2	108.2



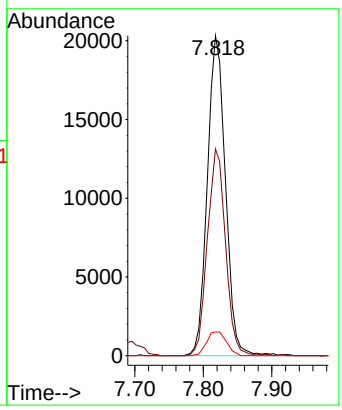


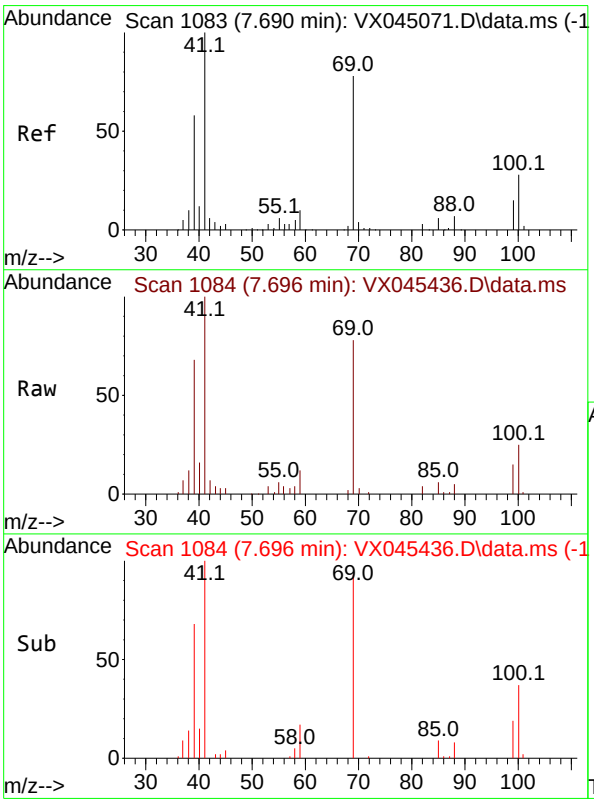
#47
Bromodichloromethane
Concen: 22.690 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 83 Resp: 37305

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.1	76.7
127	7.4	6.4	9.6

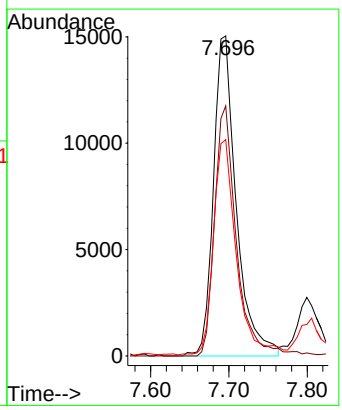


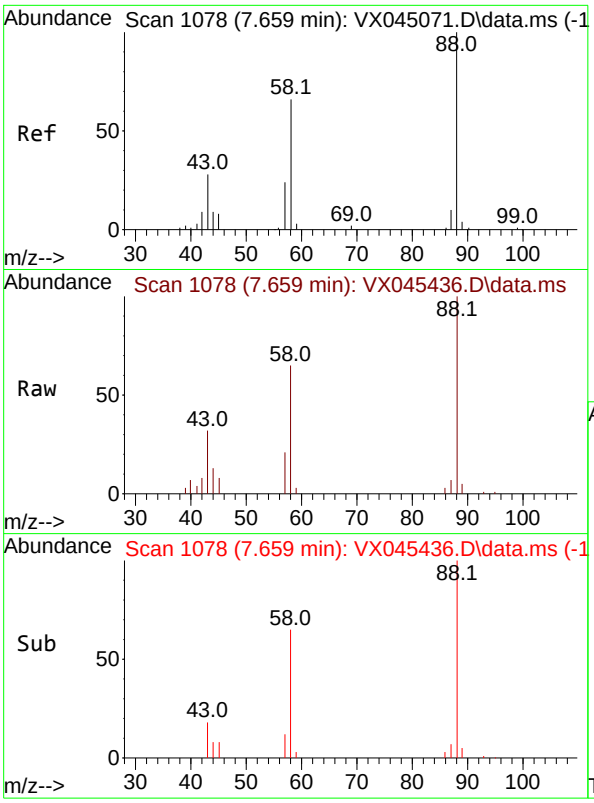


#48
Methyl methacrylate
Concen: 21.839 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 41 Resp: 30493

Ion	Ratio	Lower	Upper
41	100		
69	75.0	63.0	94.6
39	67.1	47.5	71.3



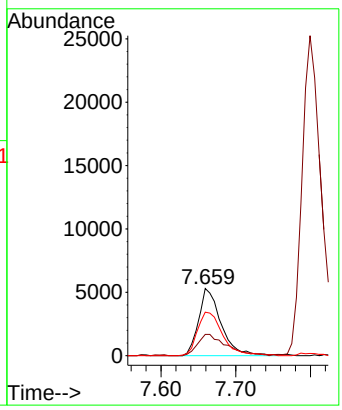


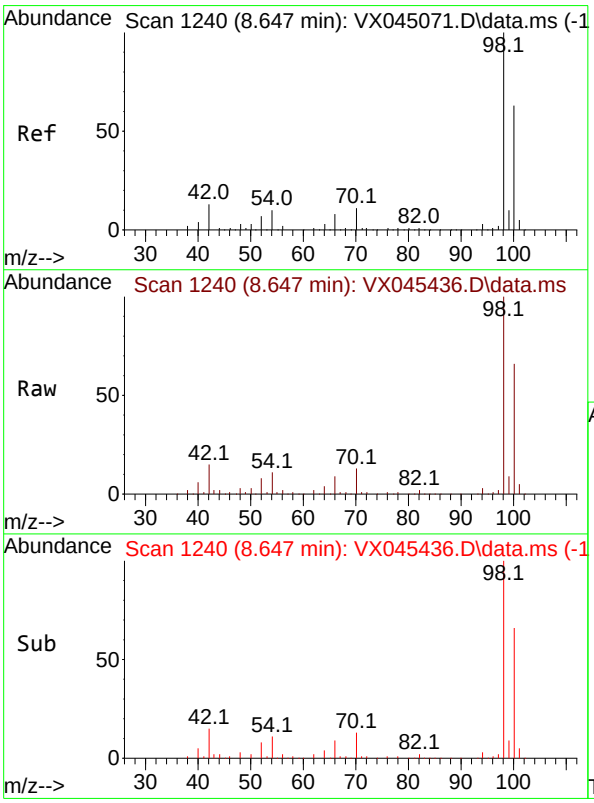
#49
1,4-Dioxane
Concen: 375.106 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 88 Resp: 11048

Ion	Ratio	Lower	Upper
88	100		
43	40.4	28.7	43.1
58	72.8	55.8	83.8

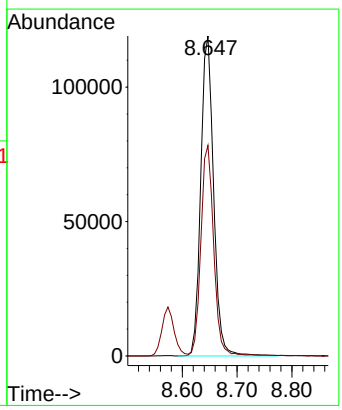


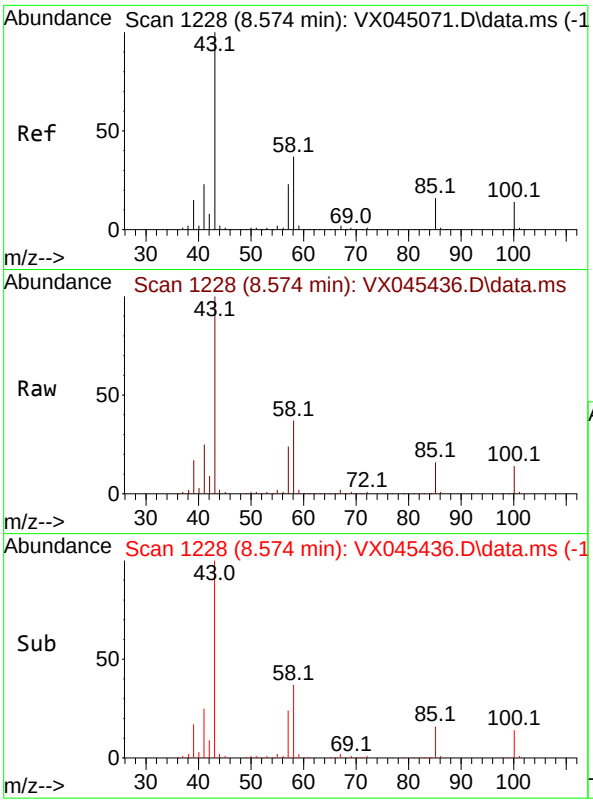


#50
Toluene-d8
Concen: 50.177 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 98 Resp: 193748

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.0	78.0



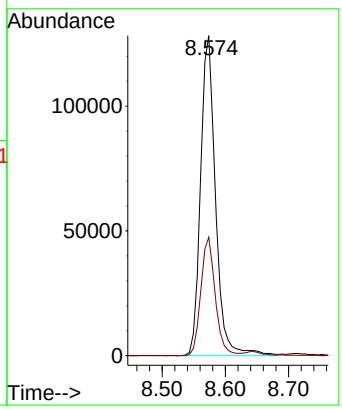


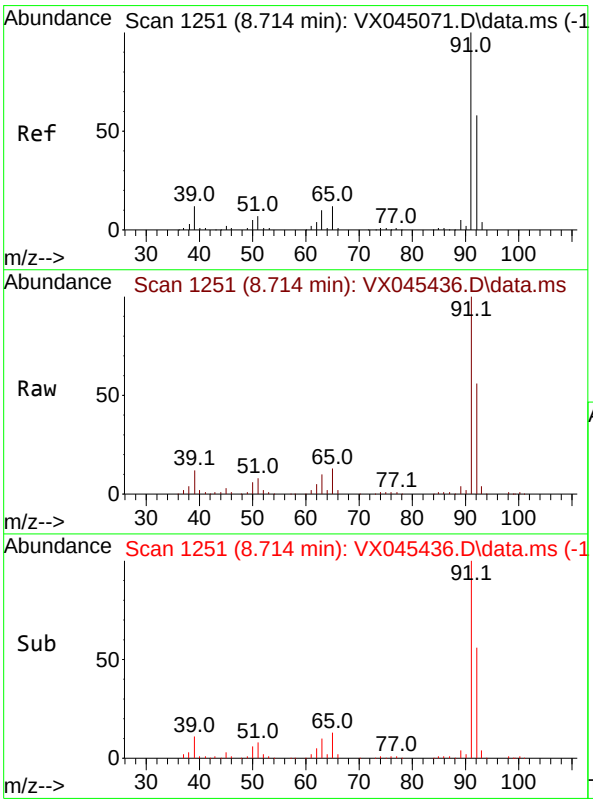
#51
4-Methyl-2-Pentanone
Concen: 113.420 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 43 Resp: 211951

Ion	Ratio	Lower	Upper
43	100		
58	35.5	29.2	43.8

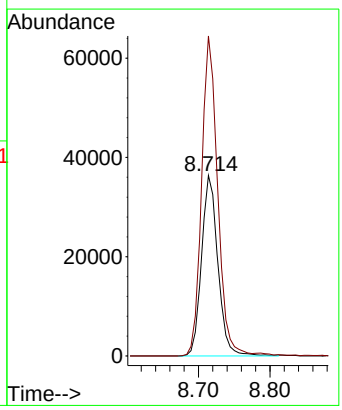


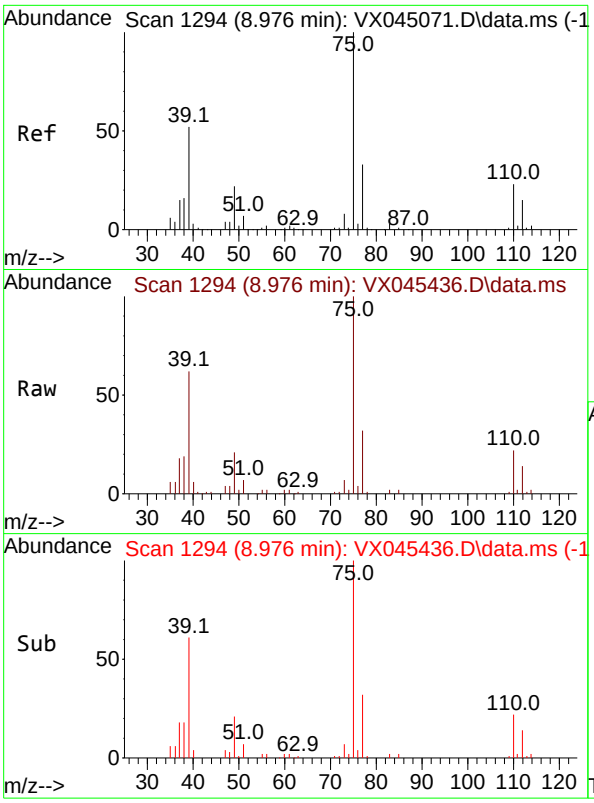


#52
Toluene
Concen: 21.371 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 92 Resp: 57834

Ion	Ratio	Lower	Upper
92	100		
91	175.6	138.9	208.3



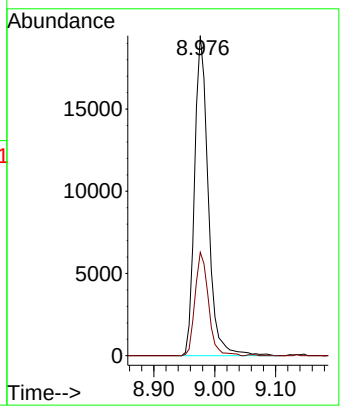


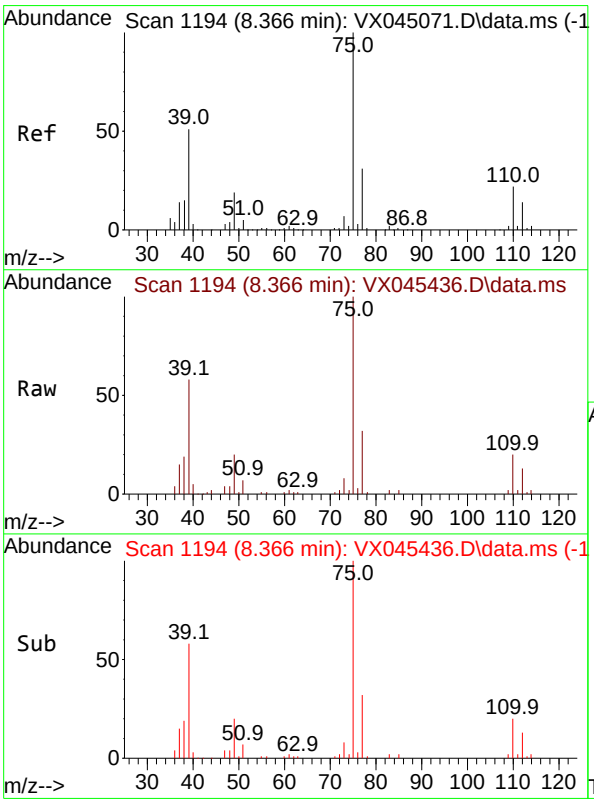
#53
t-1,3-Dichloropropene
Concen: 22.080 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 75 Resp: 30348

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.5	39.7

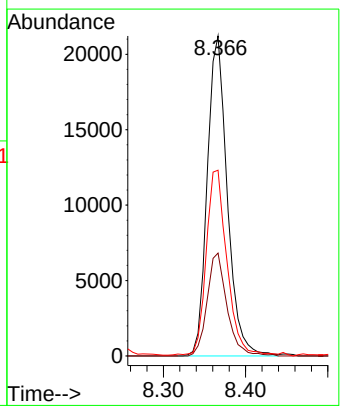


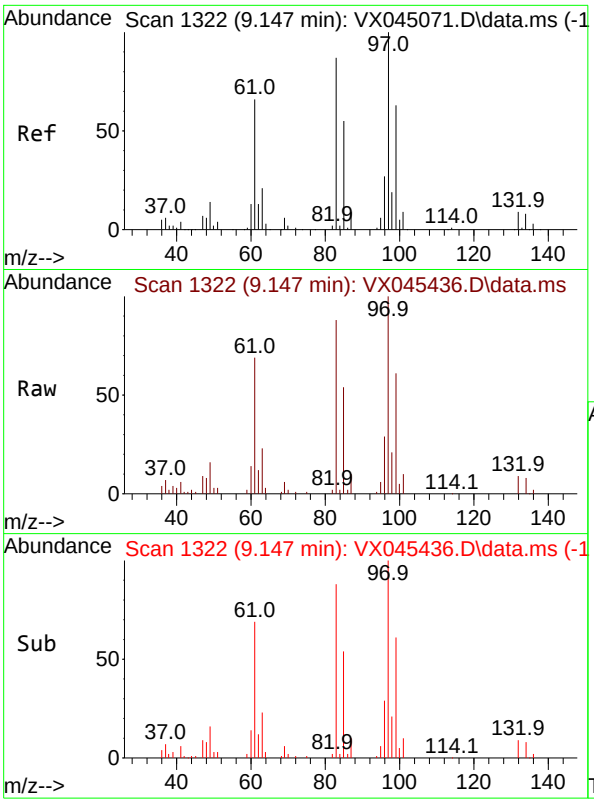


#54
cis-1,3-Dichloropropene
Concen: 22.410 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 35919

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	57.5	40.7	61.1



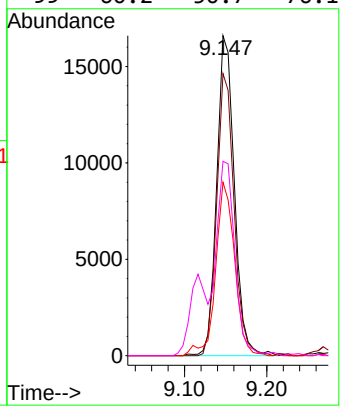


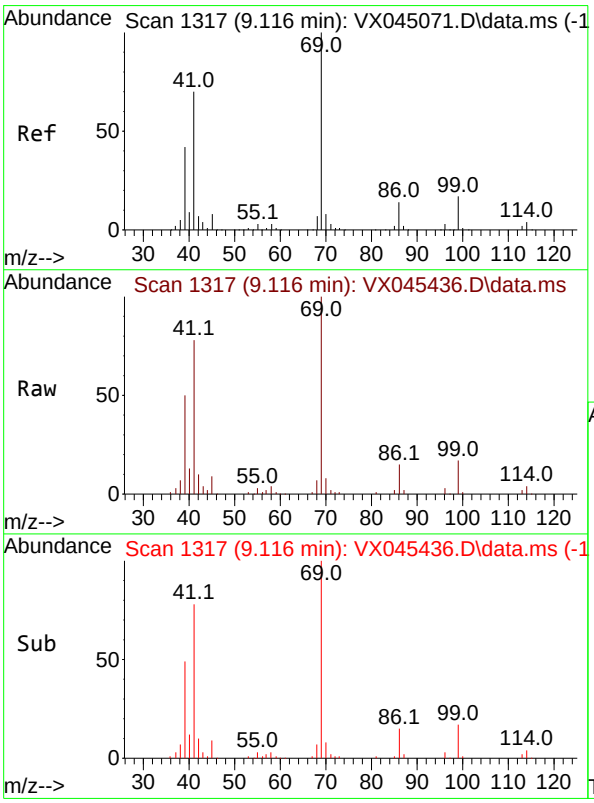
#55
1,1,2-Trichloroethane
Concen: 22.259 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 97 Resp: 24798

Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.4	104.2
85	54.2	44.1	66.1
99	60.2	50.7	76.1

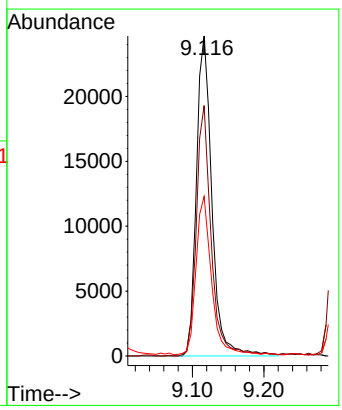


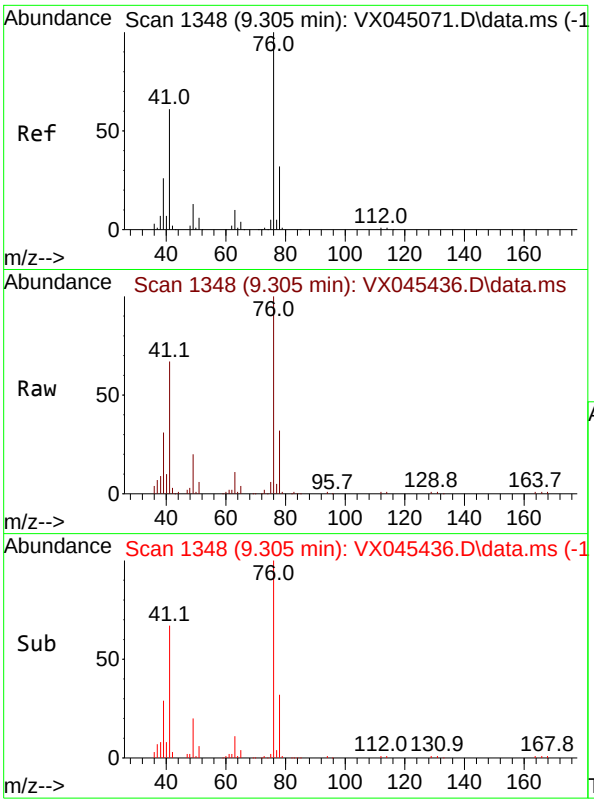


#56
Ethyl methacrylate
Concen: 21.880 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 69 Resp: 37053

Ion	Ratio	Lower	Upper
69	100		
41	75.3	57.0	85.4
39	49.1	34.2	51.4



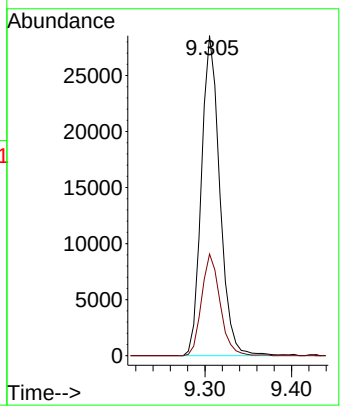


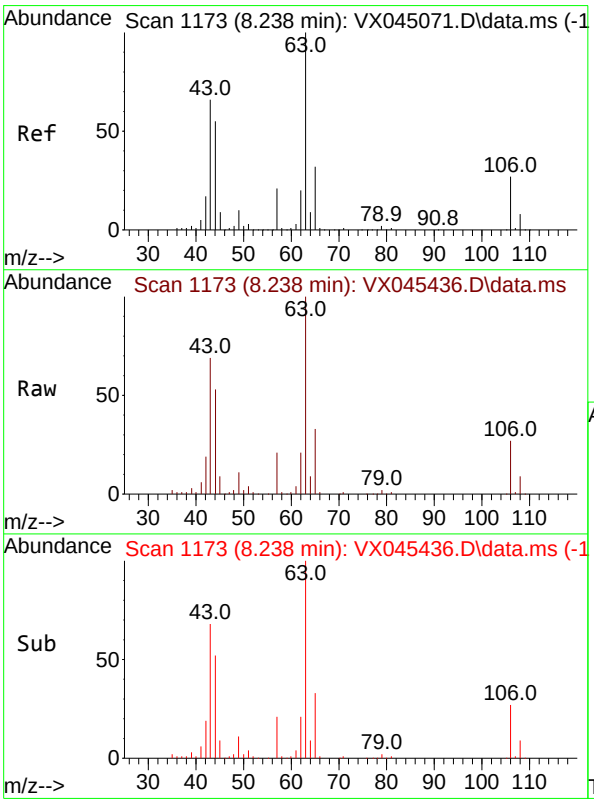
#57
1,3-Dichloropropane
Concen: 21.857 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 76 Resp: 42139

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.5	38.3

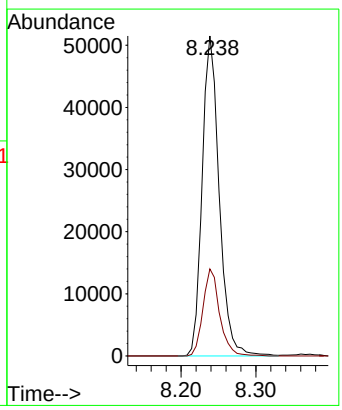


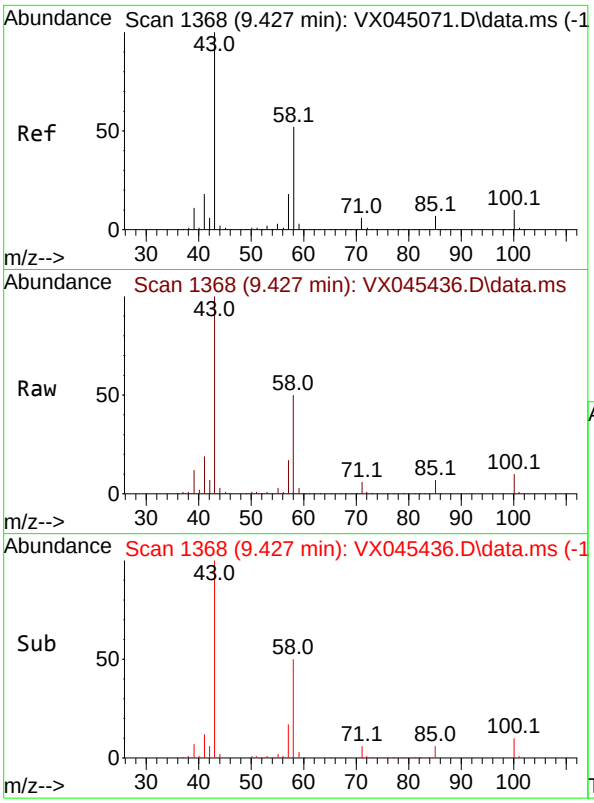


#58
2-Chloroethyl Vinyl ether
Concen: 98.707 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 63 Resp: 81540

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.5	32.3



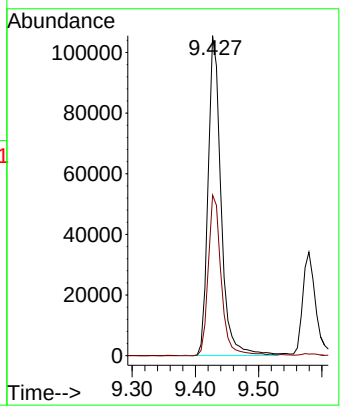


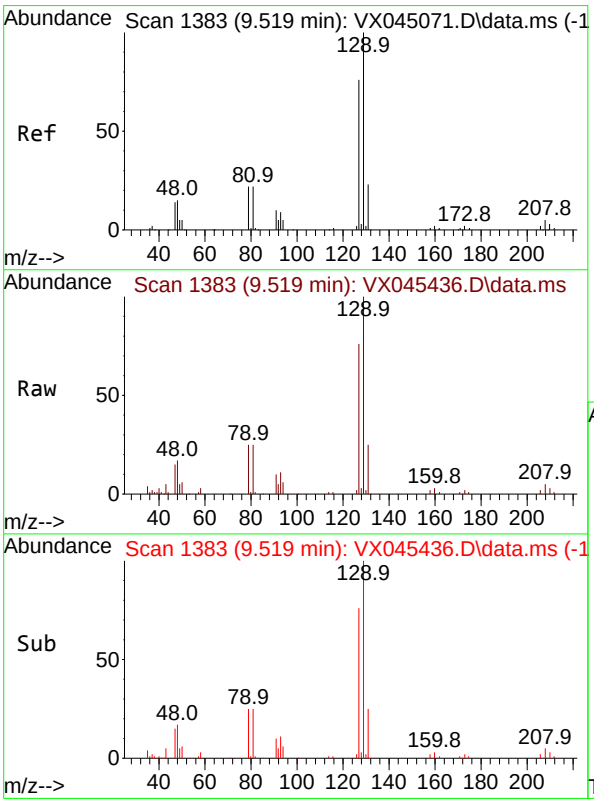
#59
2-Hexanone
Concen: 111.183 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 43 Resp: 150538

Ion	Ratio	Lower	Upper
43	100		
58	50.9	25.9	77.6

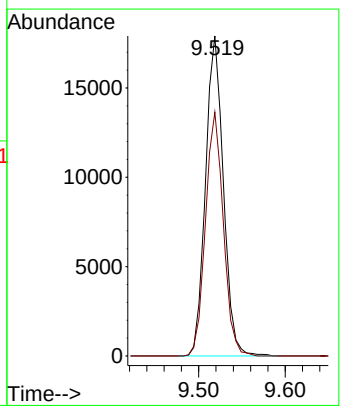


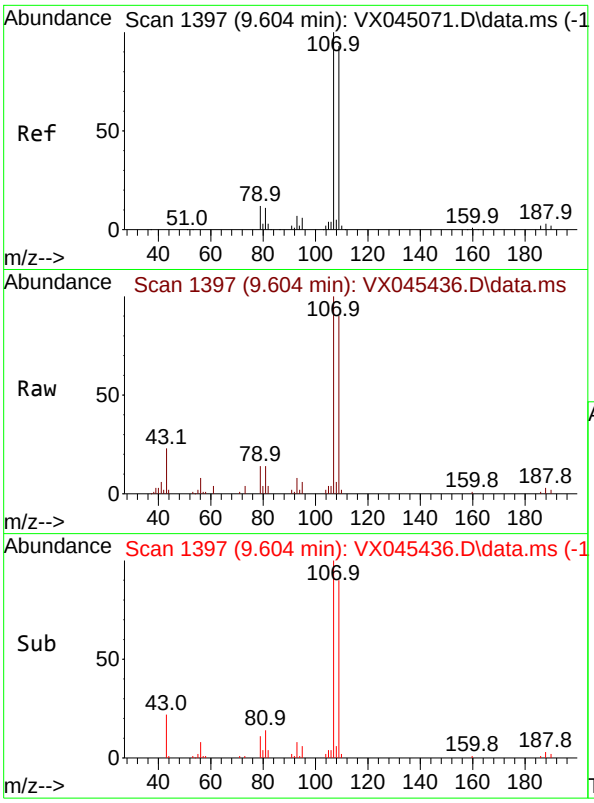


#60
Dibromochloromethane
Concen: 22.017 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:129 Resp: 25647

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.5	115.5



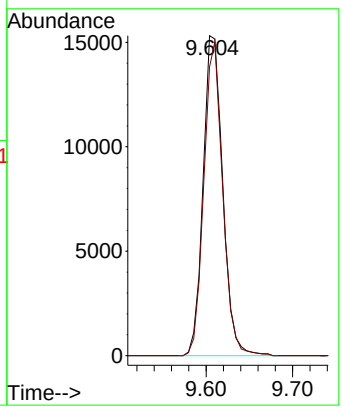


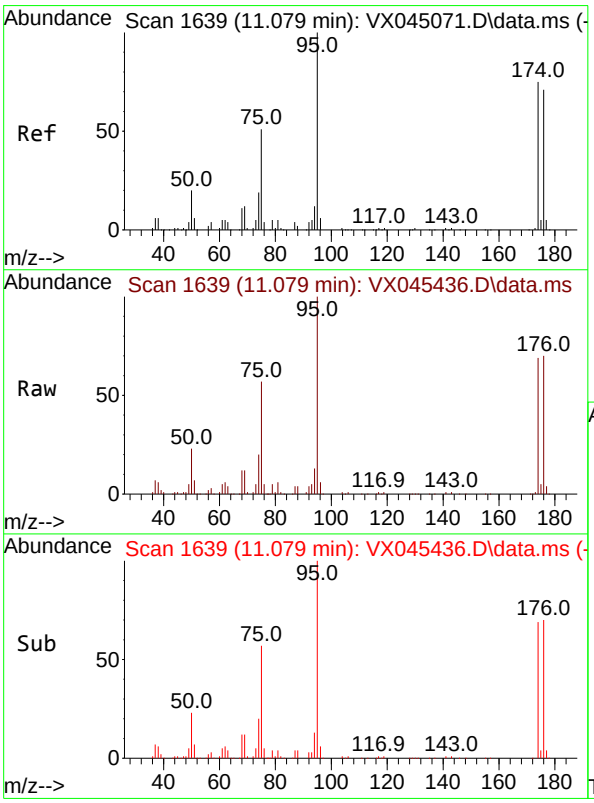
#61
1,2-Dibromoethane
Concen: 21.706 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:107 Resp: 24141

Ion	Ratio	Lower	Upper
107	100		
109	94.1	76.1	114.1

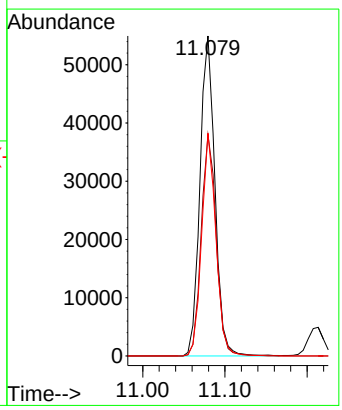


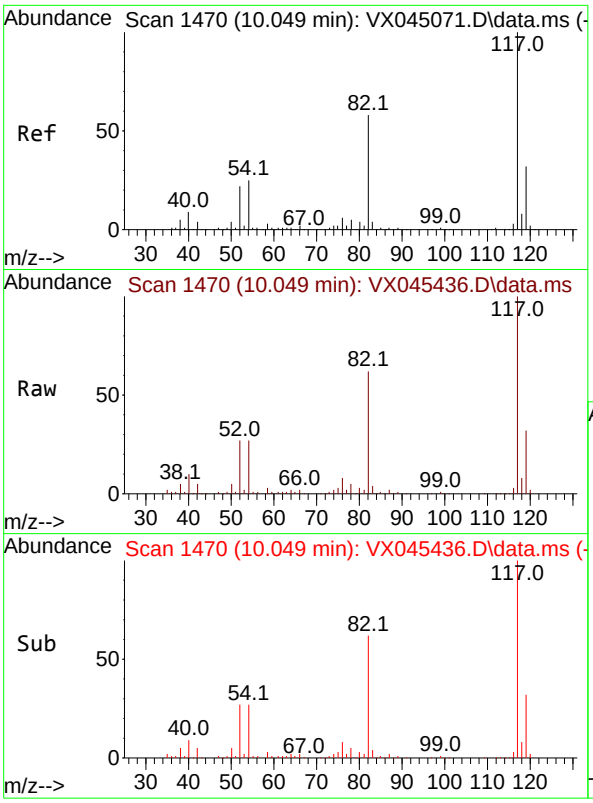


#62
4-Bromofluorobenzene
Concen: 54.311 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 95 Resp: 69492

Ion	Ratio	Lower	Upper
95	100		
174	69.4	0.0	148.2
176	66.3	0.0	141.4



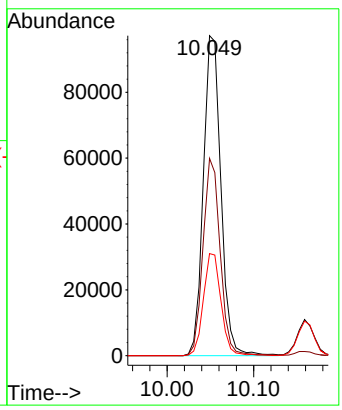


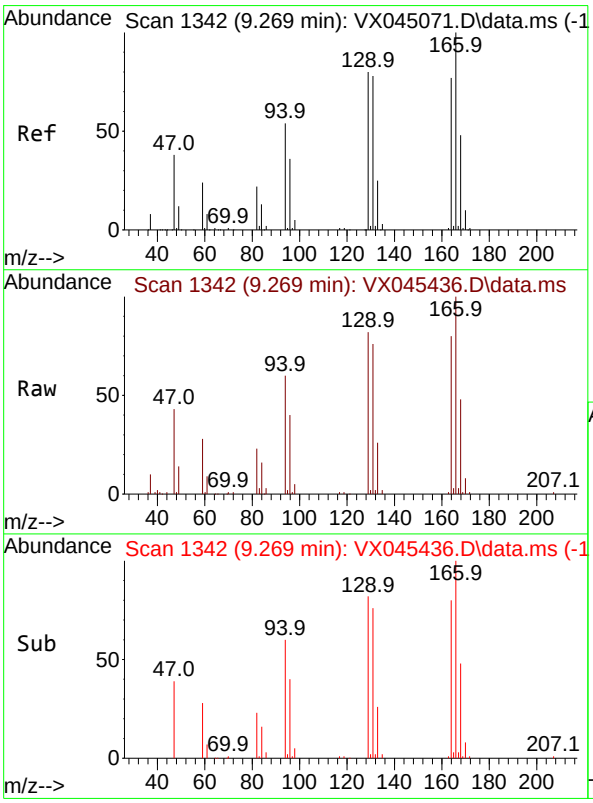
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:117 Resp: 137098

Ion	Ratio	Lower	Upper
117	100		
82	61.6	46.3	69.5
119	31.9	25.7	38.5

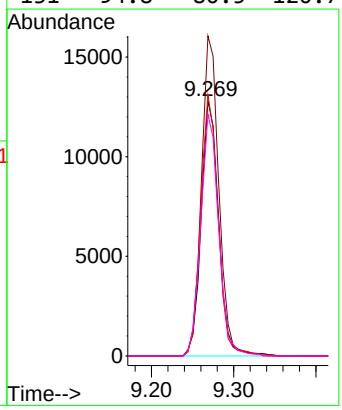


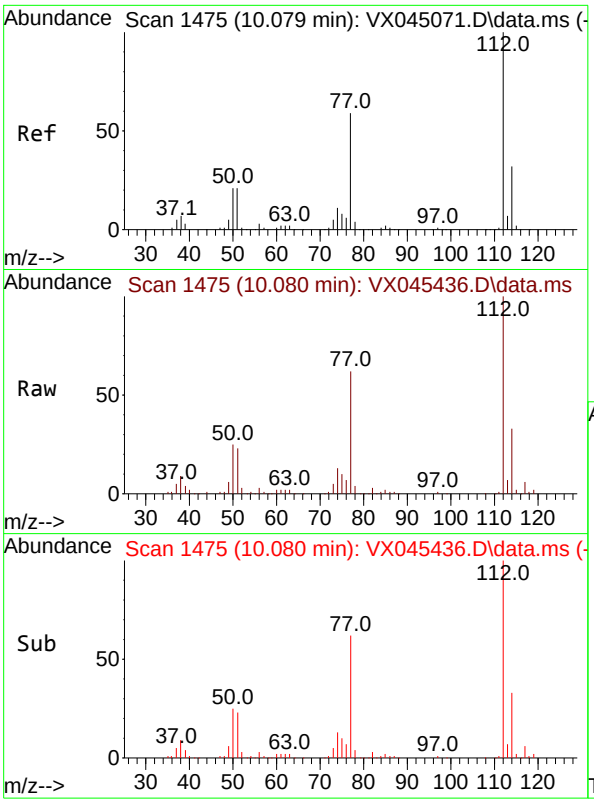


#64
Tetrachloroethene
Concen: 21.606 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:164 Resp: 18971

Ion	Ratio	Lower	Upper
164	100		
166	125.6	103.6	155.4
129	102.4	82.7	124.1
131	94.8	80.5	120.7



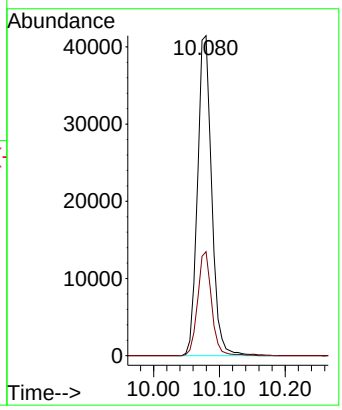


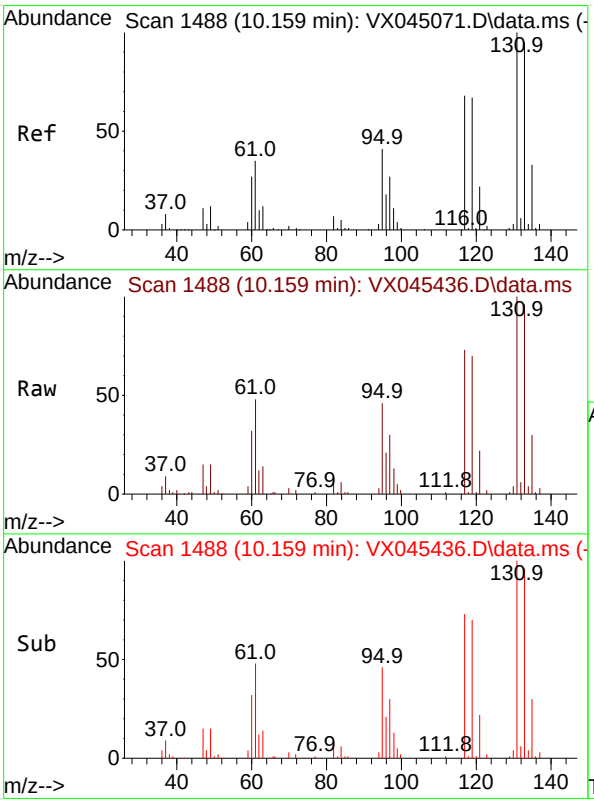
#65
Chlorobenzene
Concen: 21.369 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:112 Resp: 61991

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0

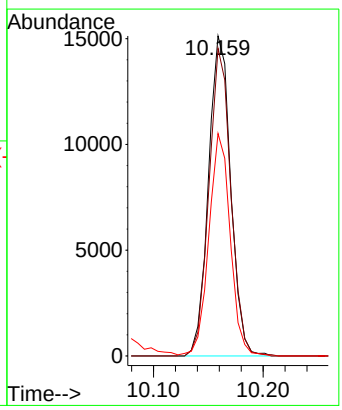


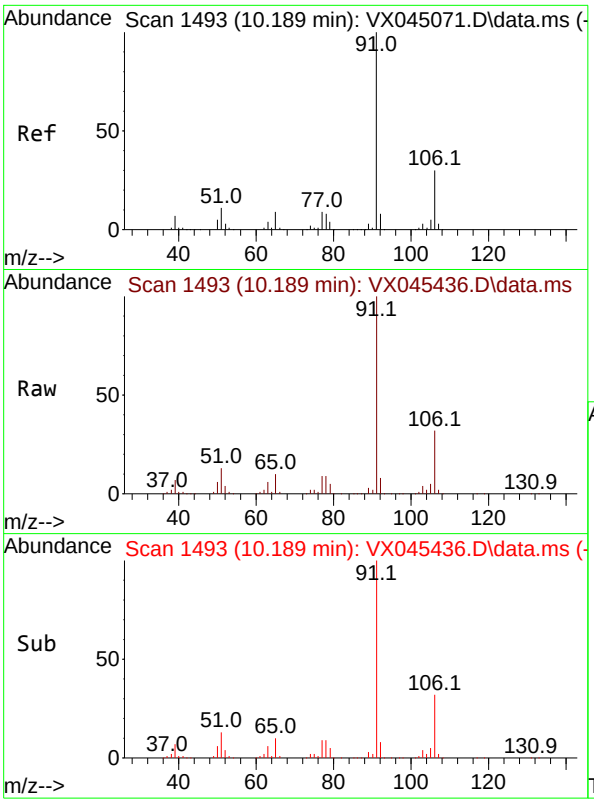


#66
1,1,1,2-Tetrachloroethane
Concen: 22.016 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:131 Resp: 21269

Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.6	145.9
119	66.9	33.9	101.7



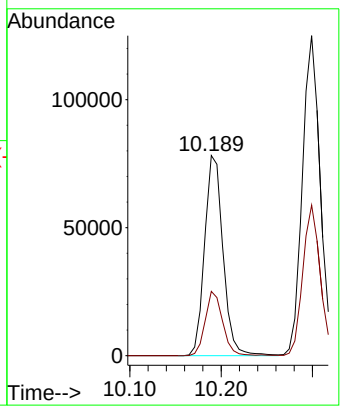


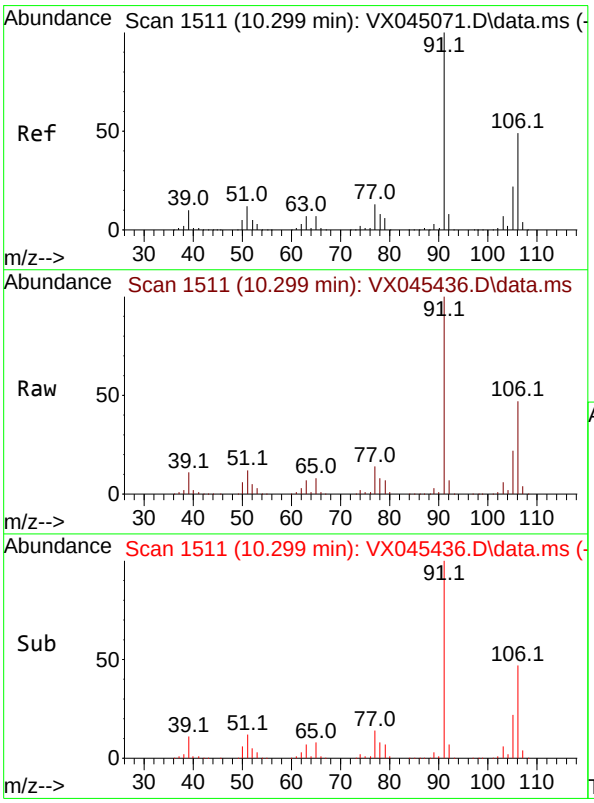
#67
Ethyl Benzene
Concen: 21.631 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 91 Resp: 109339

Ion	Ratio	Lower	Upper
91	100		
106	32.1	23.9	35.9

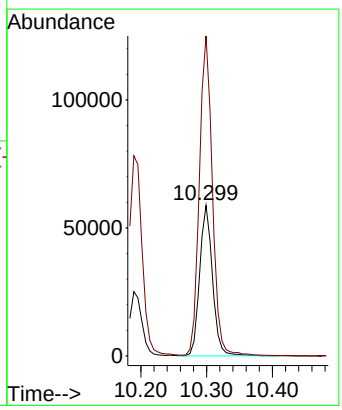


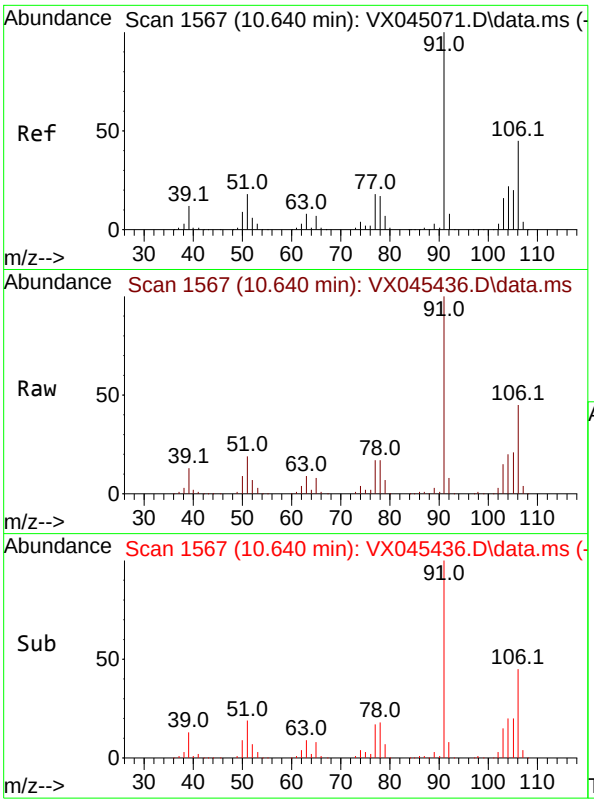


#68
m/p-Xylenes
Concen: 43.099 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:106 Resp: 79751

Ion	Ratio	Lower	Upper
106	100		
91	216.9	165.4	248.0



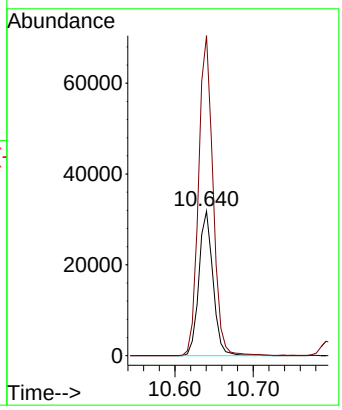


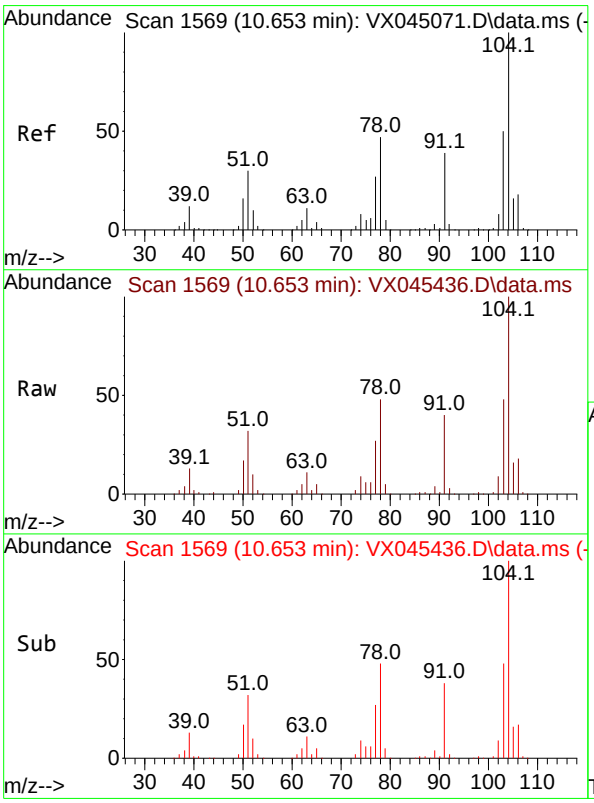
#69
o-Xylene
Concen: 21.391 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:106 Resp: 39921

Ion	Ratio	Lower	Upper
106	100		
91	226.1	109.9	329.6

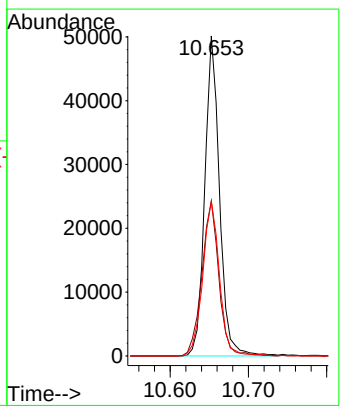


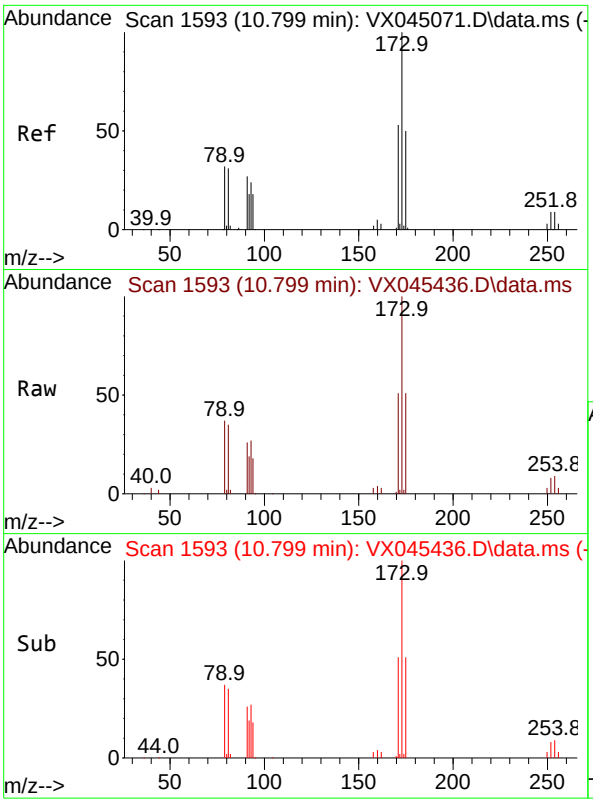


#70
Styrene
Concen: 21.659 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:104 Resp: 65405

Ion	Ratio	Lower	Upper
104	100		
78	56.0	42.2	63.4
103	54.9	43.8	65.8



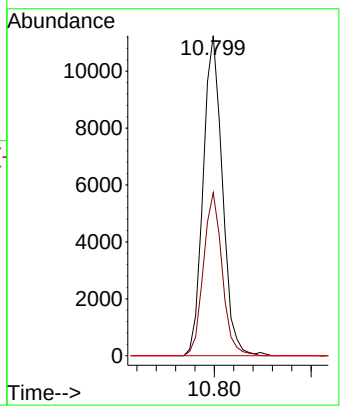


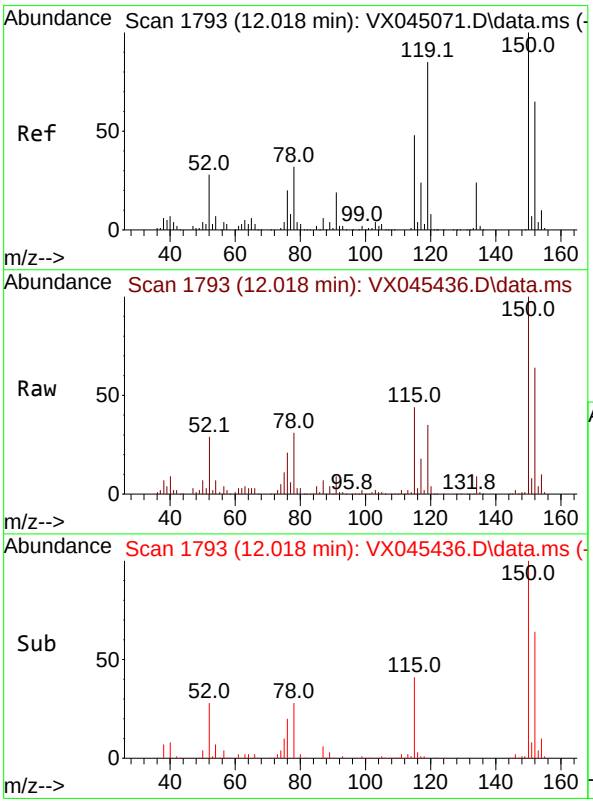
#71
Bromoform
Concen: 21.374 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:173 Resp: 15571

Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	73.6
254	0.0	0.0	0.0

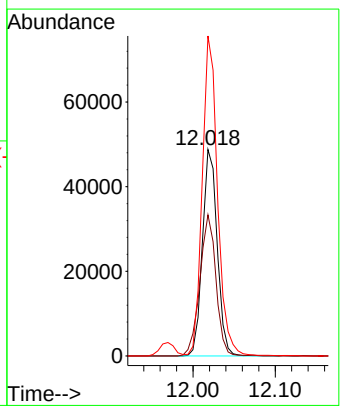


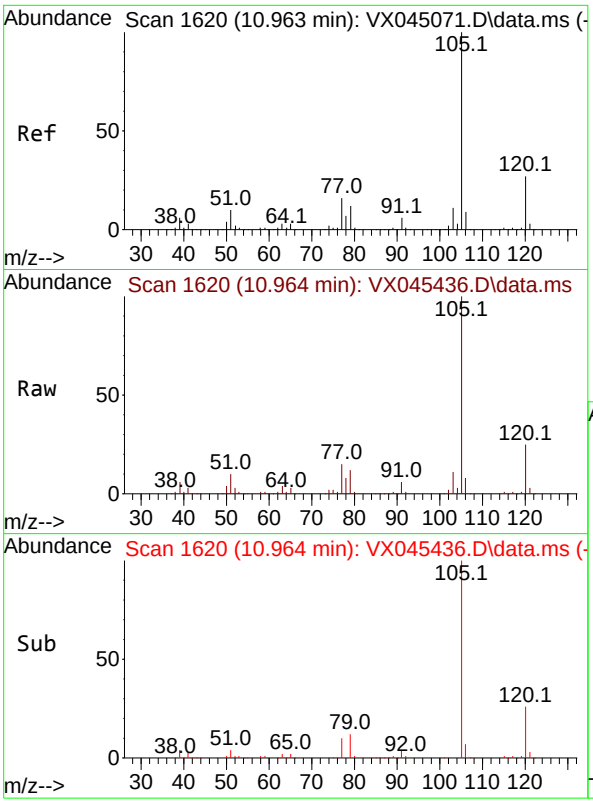


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:152 Resp: 60910

Ion	Ratio	Lower	Upper
152	100		
115	74.5	44.2	132.6
150	161.0	0.0	349.0



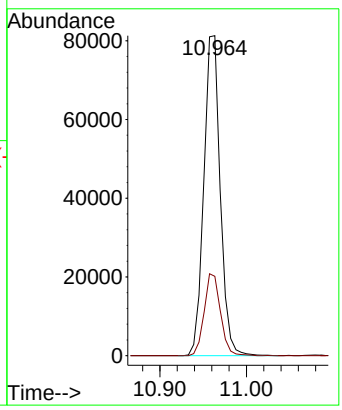


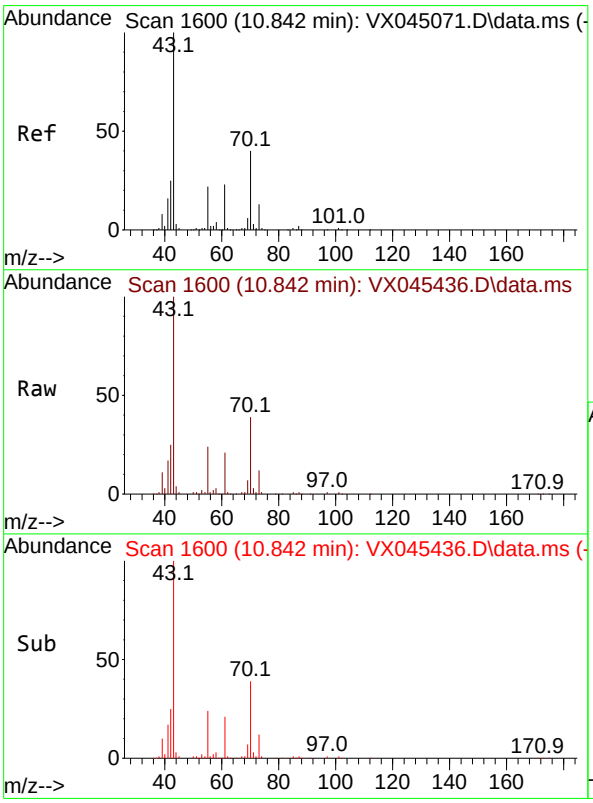
#73
Isopropylbenzene
Concen: 22.544 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:105 Resp: 107177

Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.2	39.5

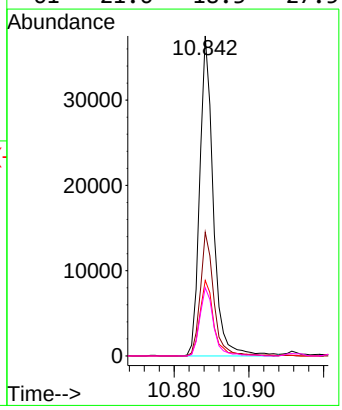


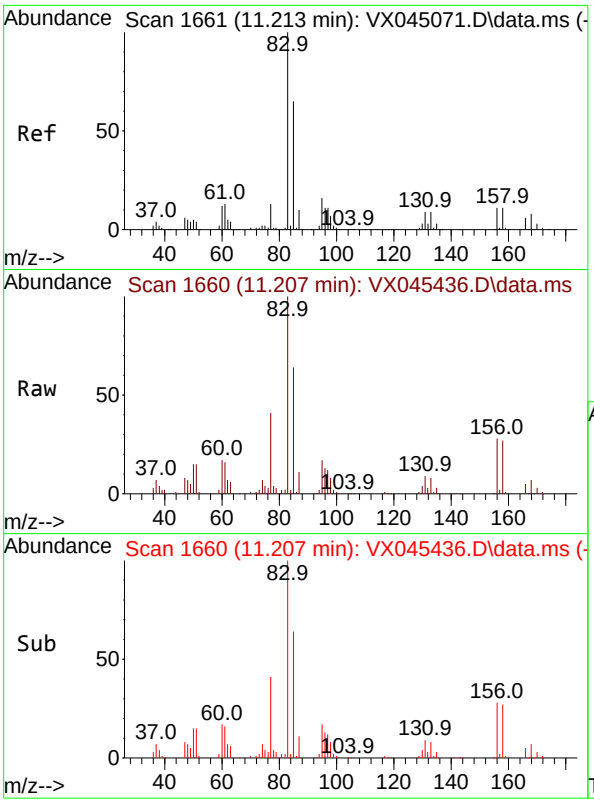


#74
N-amyl acetate
Concen: 21.246 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 43 Resp: 47397

Ion	Ratio	Lower	Upper
43	100		
70	38.2	31.8	47.6
55	24.4	18.3	27.5
61	21.6	18.3	27.5



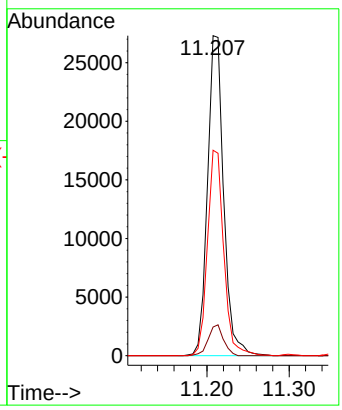


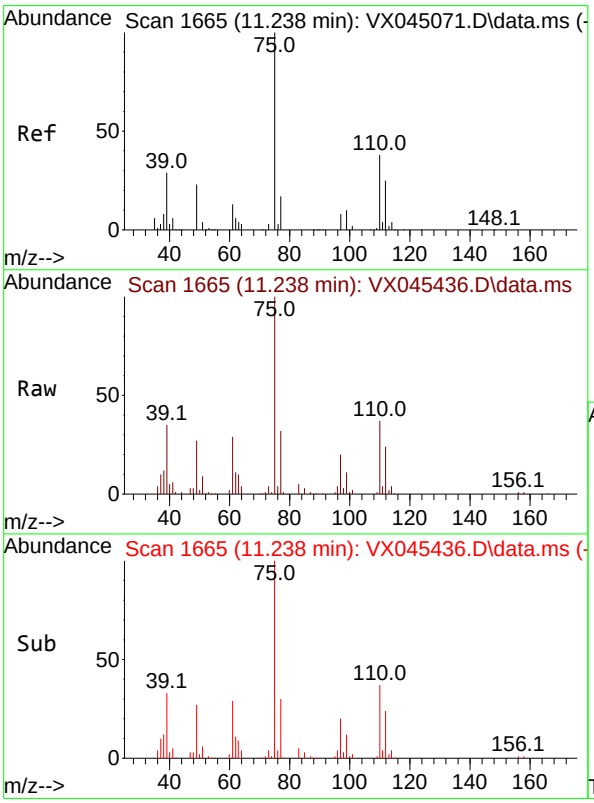
#75
1,1,2,2-Tetrachloroethane
Concen: 21.355 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 83 Resp: 37257

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.4
85	64.7	31.7	95.1

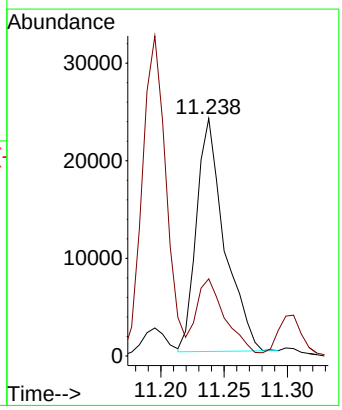


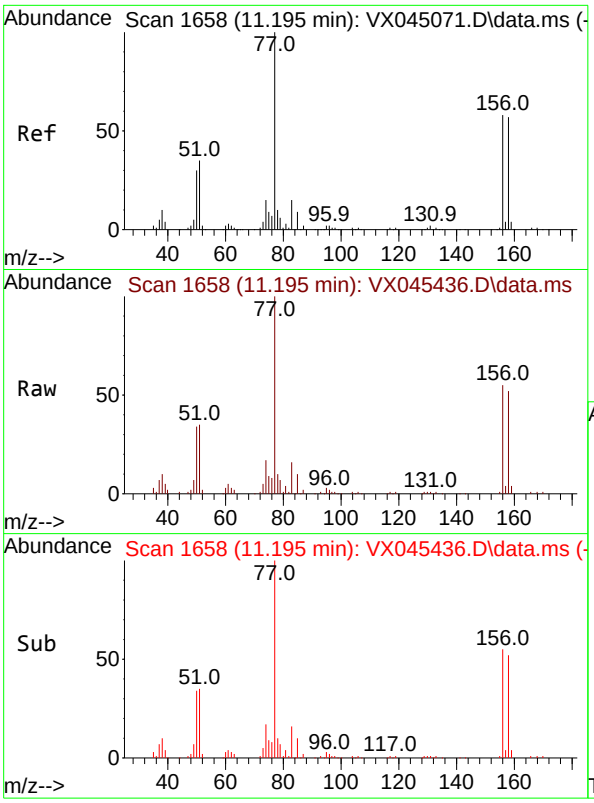


#76
1,2,3-Trichloropropane
Concen: 25.971 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 36819

Ion	Ratio	Lower	Upper
75	100		
77	34.3	20.7	62.1



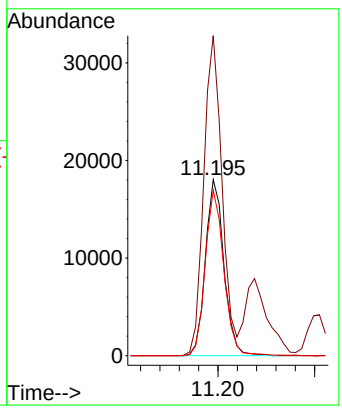


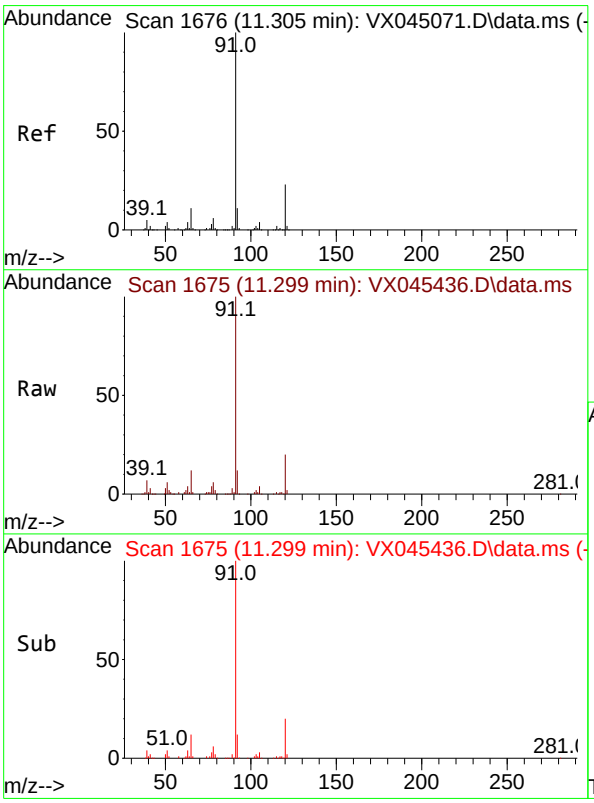
#77
Bromobenzene
Concen: 21.388 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:156 Resp: 23991

Ion	Ratio	Lower	Upper
156	100		
77	179.2	85.8	257.4
158	94.5	48.4	145.2

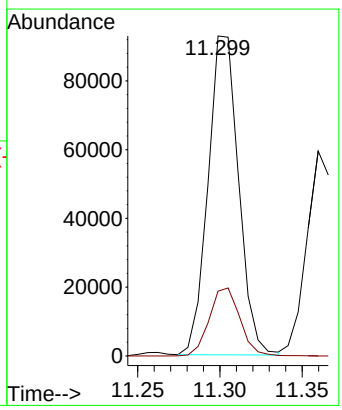


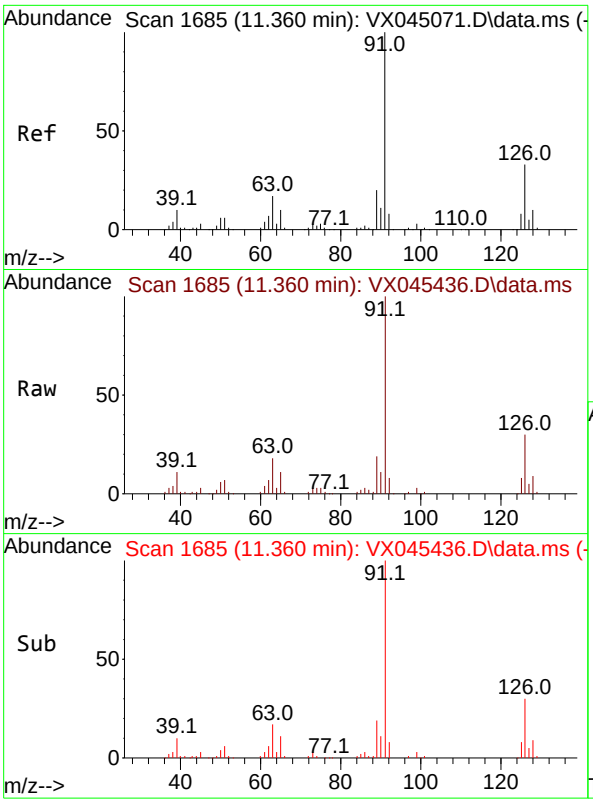


#78
n-propylbenzene
Concen: 22.372 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 91 Resp: 120148

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6



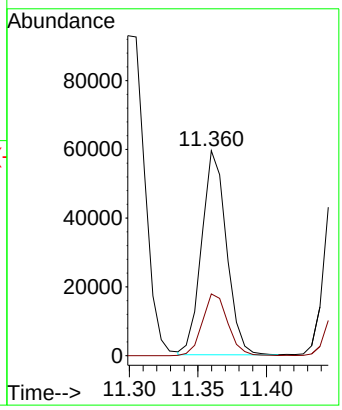


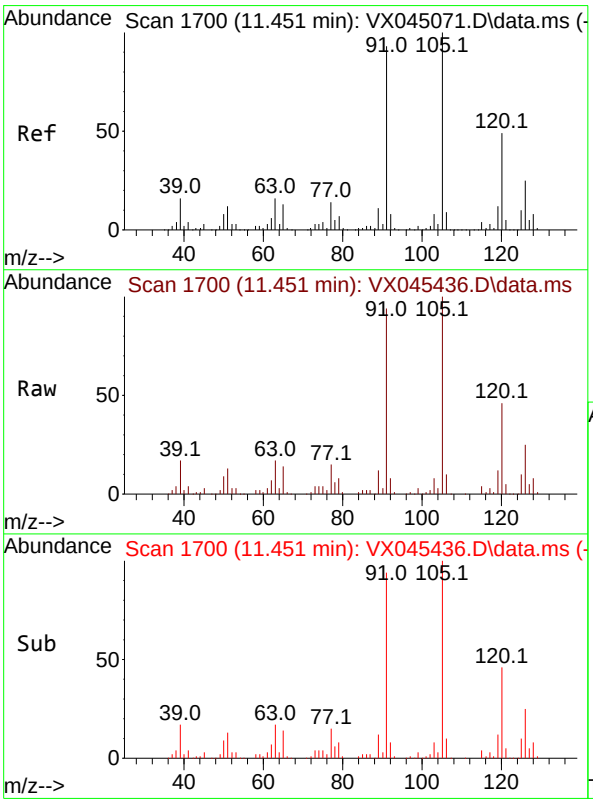
#79
2-Chlorotoluene
Concen: 21.861 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 91 Resp: 74772

Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.4	49.4

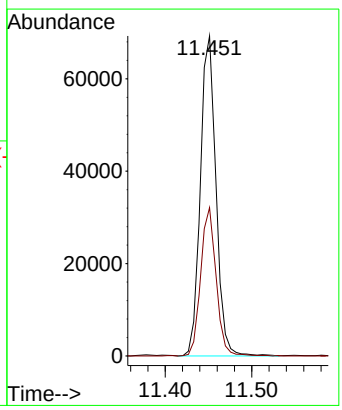


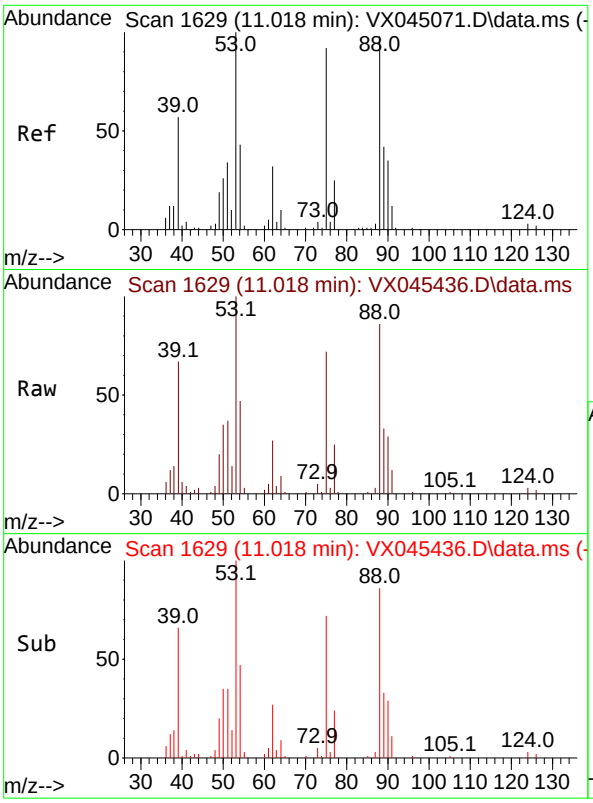


#80
1,3,5-Trimethylbenzene
Concen: 22.591 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:105 Resp: 86843

Ion	Ratio	Lower	Upper
105	100		
120	45.9	24.1	72.2



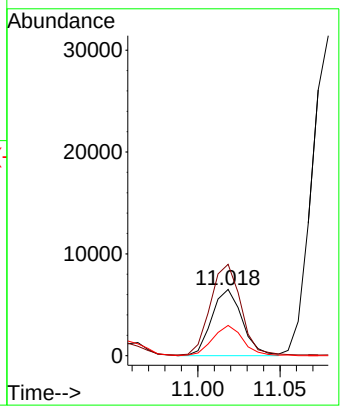


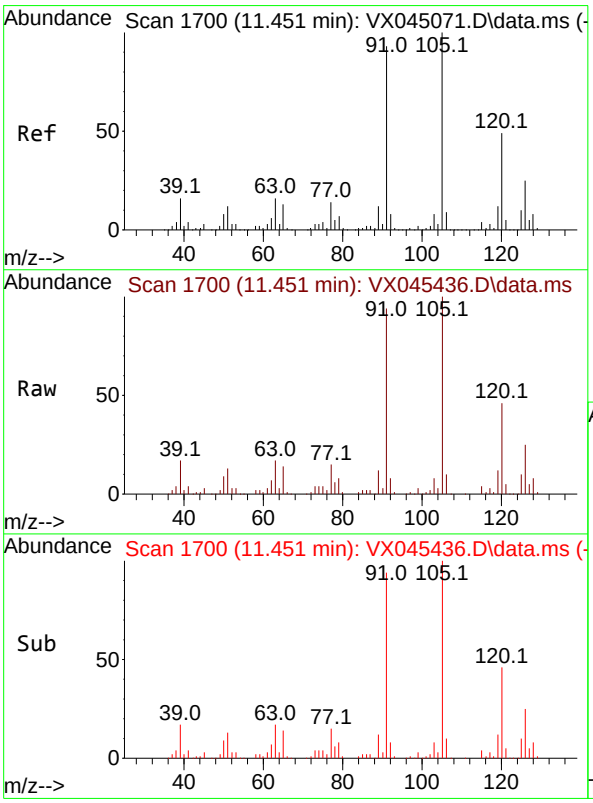
#81
trans-1,4-Dichloro-2-butene
Concen: 20.262 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 75 Resp: 8394

Ion	Ratio	Lower	Upper
75	100		
53	140.8	88.5	132.7#
89	45.4	36.2	54.4

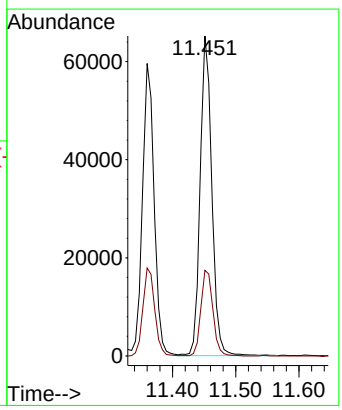


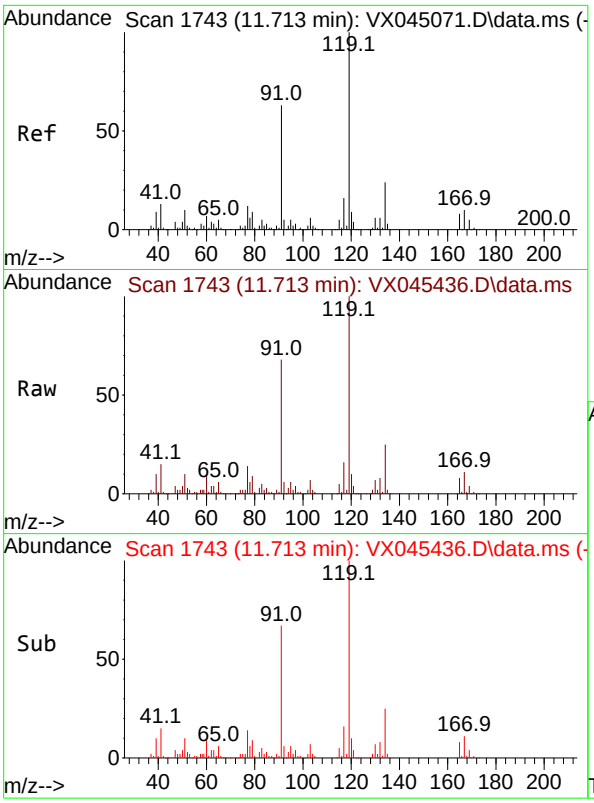


#82
4-Chlorotoluene
Concen: 22.439 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 91 Resp: 83643

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.1	42.4



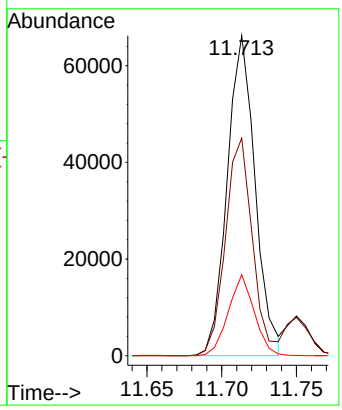


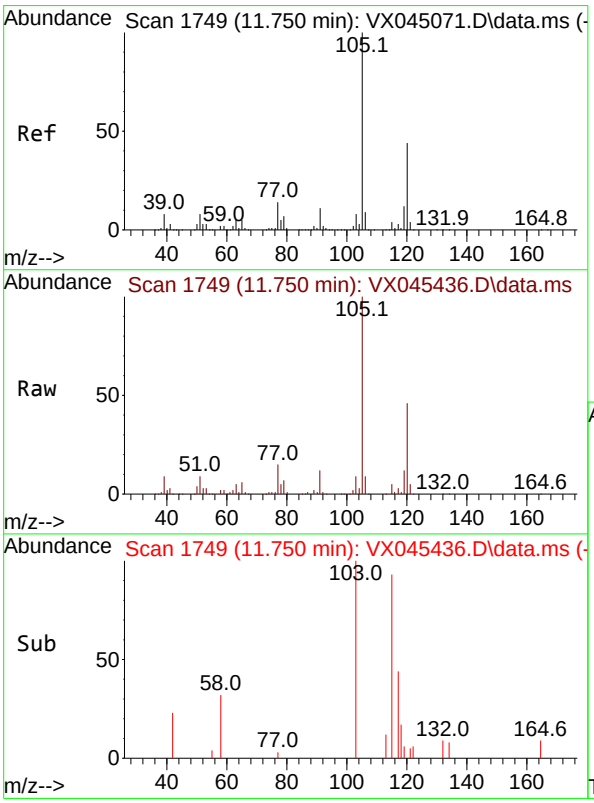
#83
tert-Butylbenzene
Concen: 21.802 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:119 Resp: 86114

Ion	Ratio	Lower	Upper
119	100		
91	66.0	30.7	92.1
134	23.5	11.7	35.0

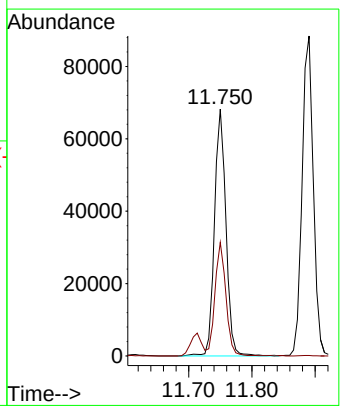


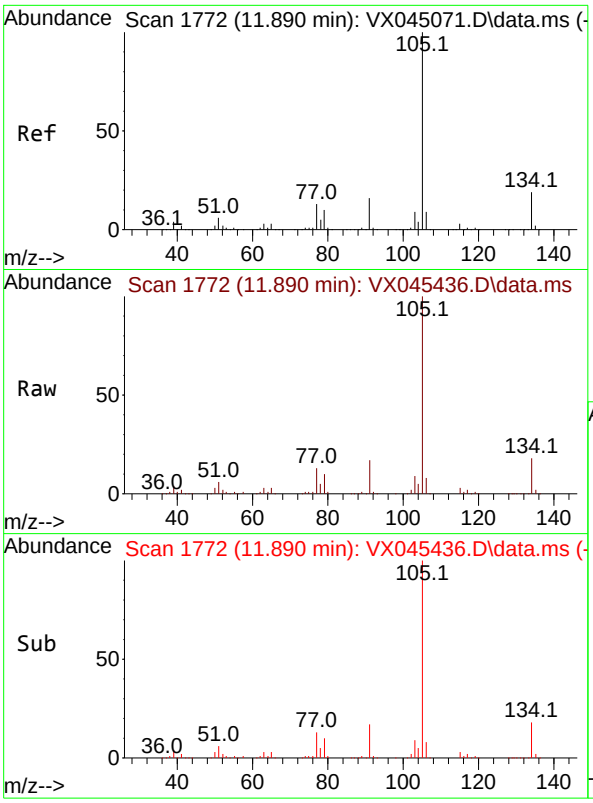


#84
1,2,4-Trimethylbenzene
Concen: 22.182 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:105 Resp: 85798

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



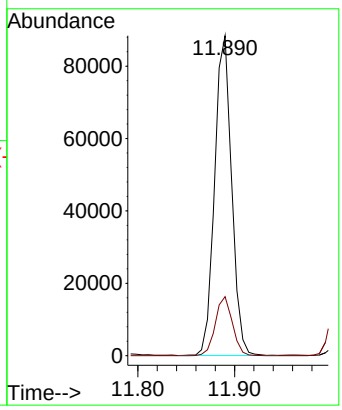


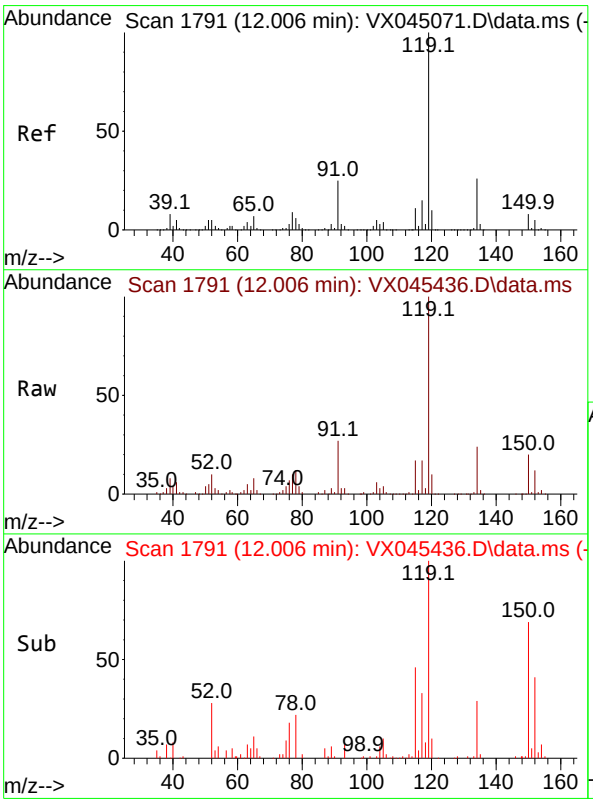
#85
sec-Butylbenzene
Concen: 22.760 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:105 Resp: 107683

Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.8	29.4

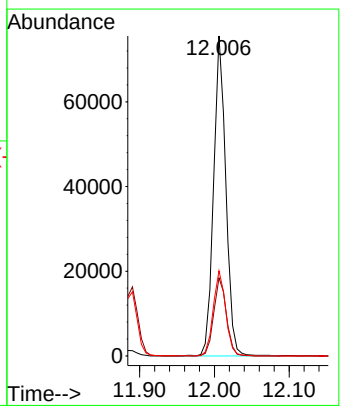


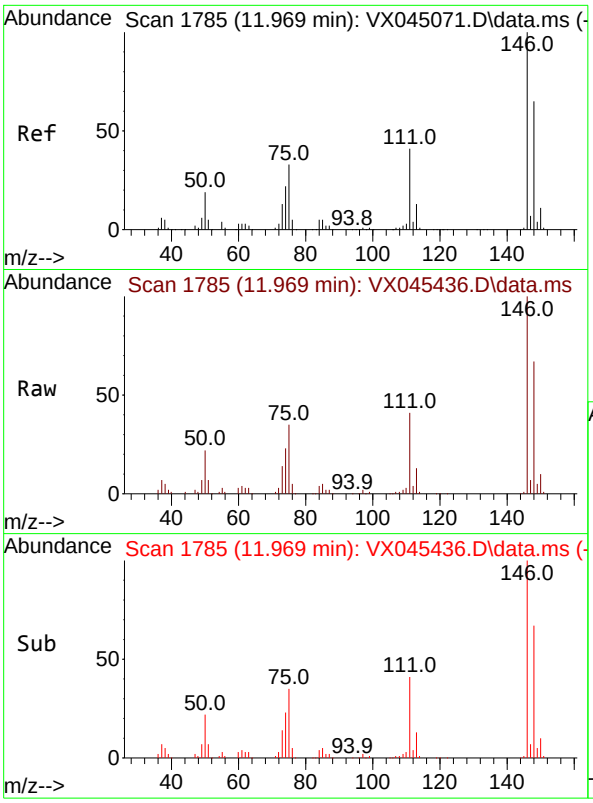


#86
p-Isopropyltoluene
Concen: 22.531 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:119 Resp: 86148

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.9	38.6
91	27.1	12.7	38.0



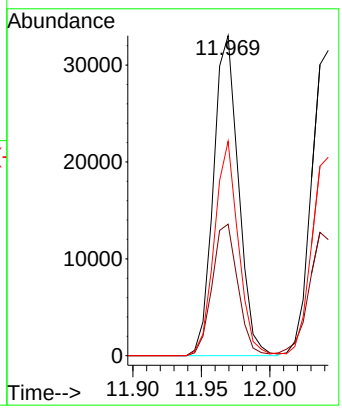


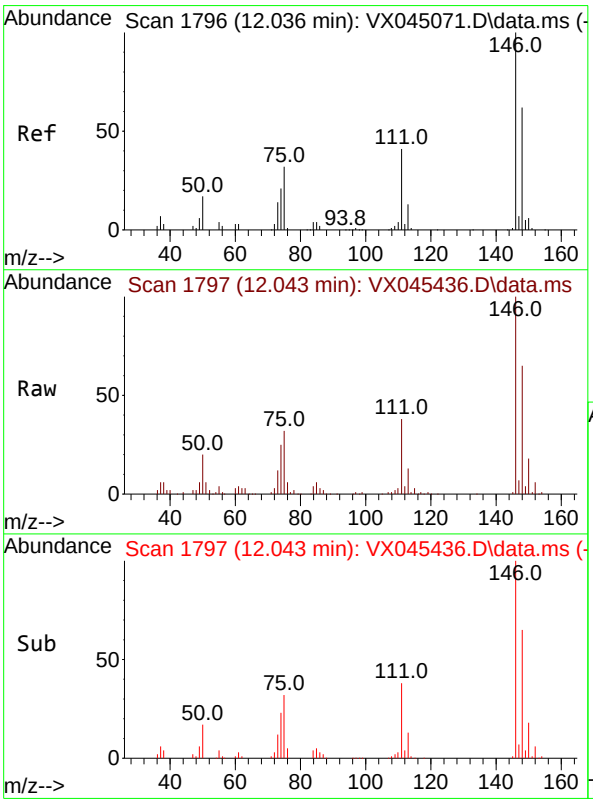
#87
1,3-Dichlorobenzene
Concen: 20.976 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:146 Resp: 41975

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.1	63.4
148	64.3	31.9	95.7

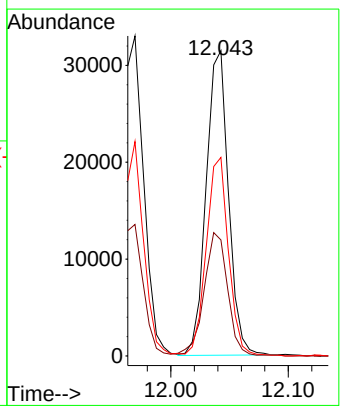


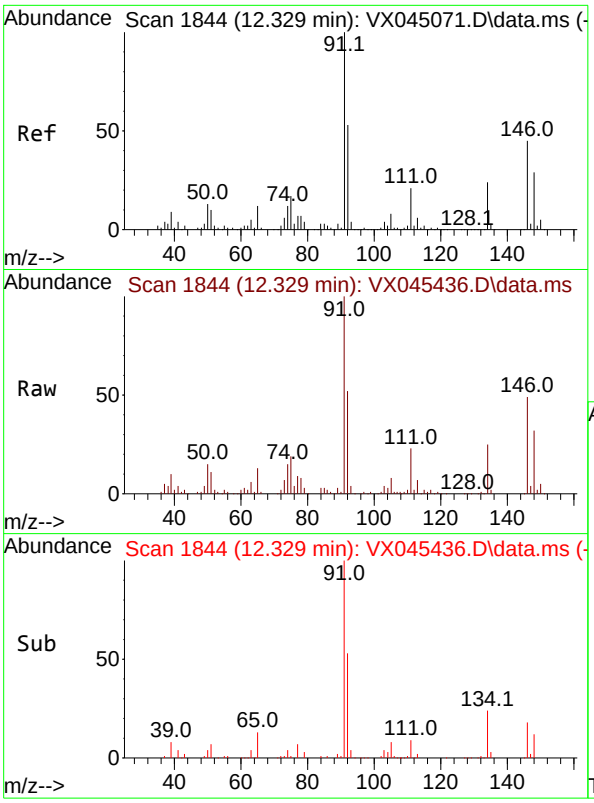


#88
1,4-Dichlorobenzene
Concen: 20.480 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:146 Resp: 41462

Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.2	60.5
148	65.2	31.9	95.9



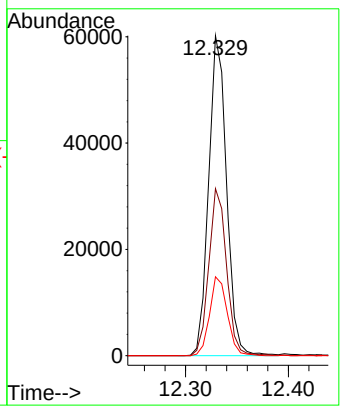


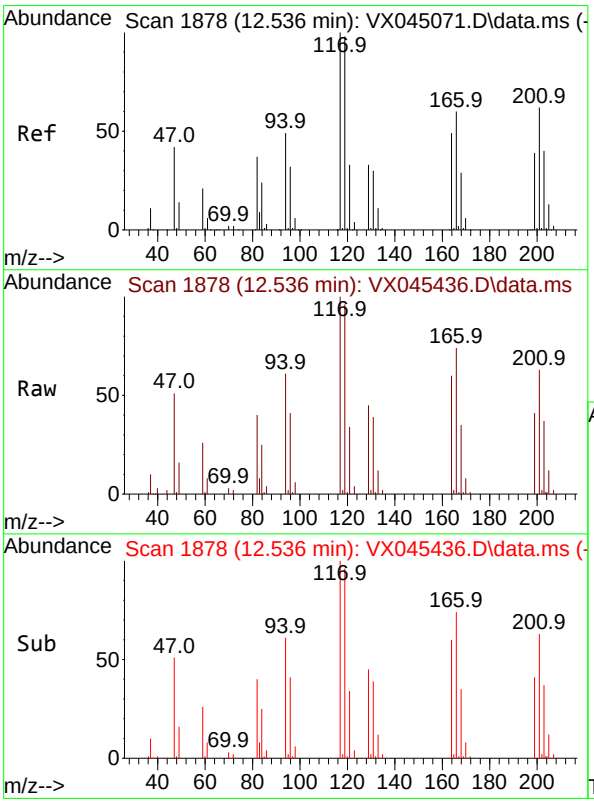
#89
n-Butylbenzene
Concen: 22.079 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion: 91 Resp: 72708

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.7	80.0
134	24.4	12.2	36.6

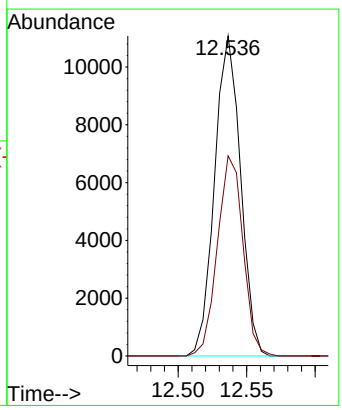


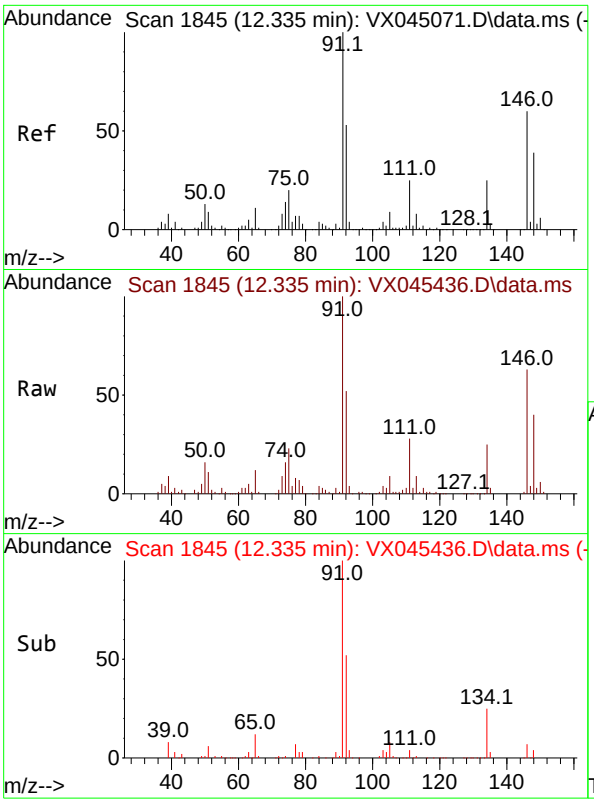


#90
Hexachloroethane
Concen: 21.109 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:117 Resp: 14599

Ion	Ratio	Lower	Upper
117	100		
201	61.6	31.9	95.9



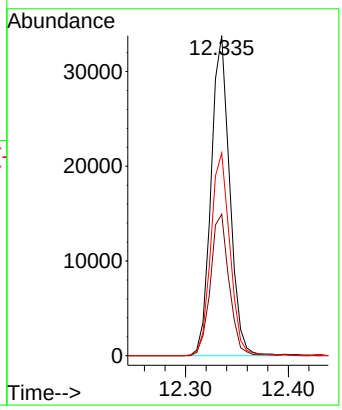


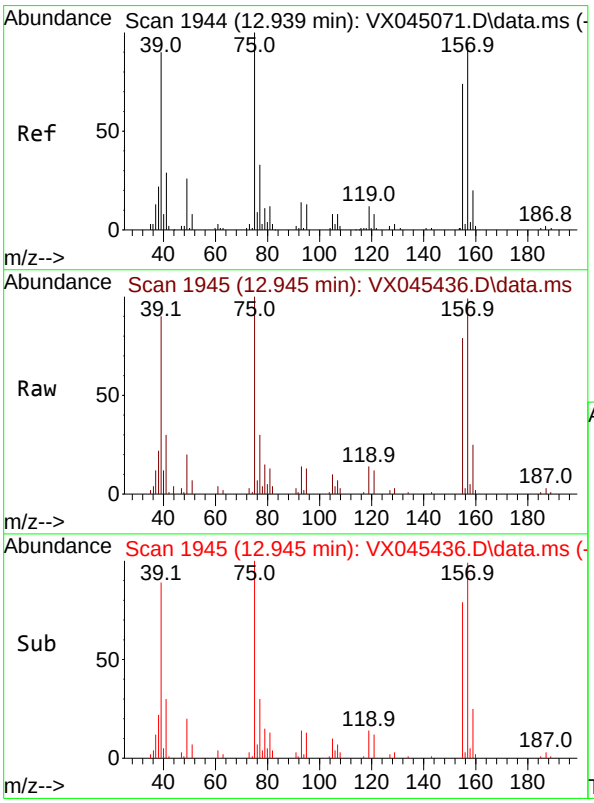
#91
1,2-Dichlorobenzene
Concen: 21.142 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:146 Resp: 42440

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.6	65.0
148	65.2	31.9	95.9

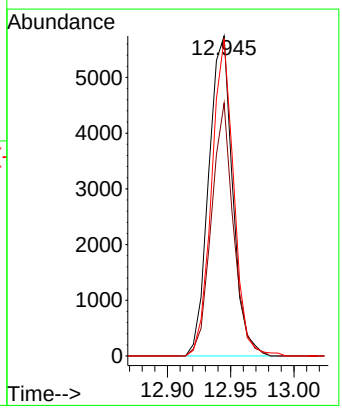


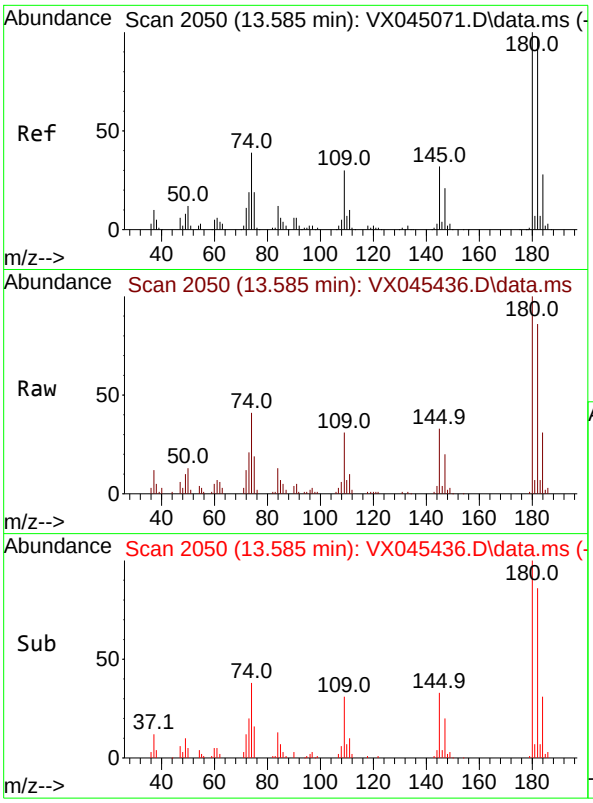


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.055 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion: 75 Resp: 7496

Ion	Ratio	Lower	Upper
75	100		
155	73.3	39.6	118.7
157	92.2	51.1	153.4



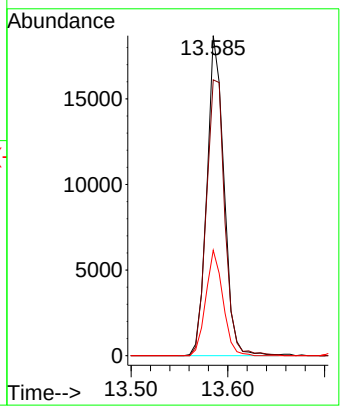


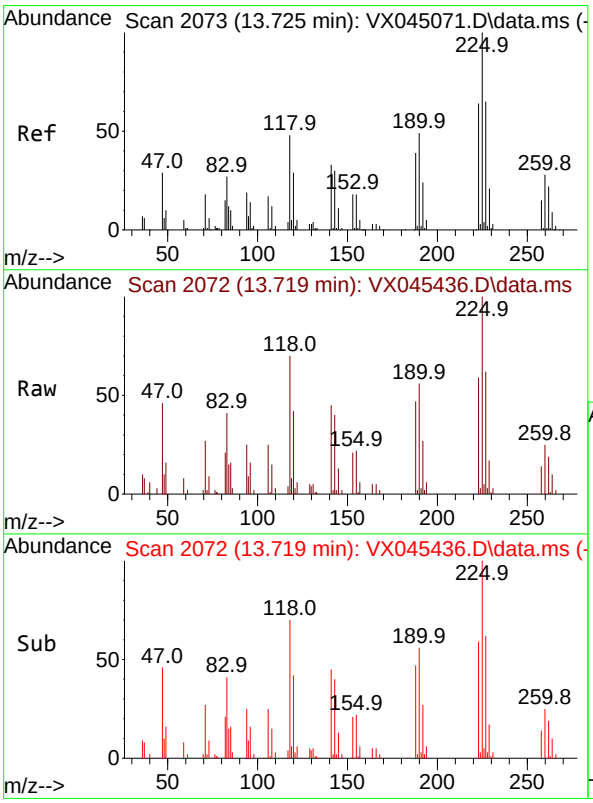
#93
1,2,4-Trichlorobenzene
Concen: 20.120 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:180 Resp: 22997

Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.3	141.9
145	33.0	16.3	48.9

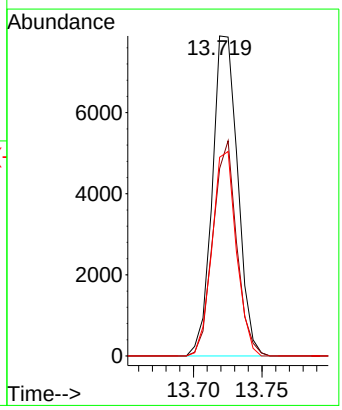


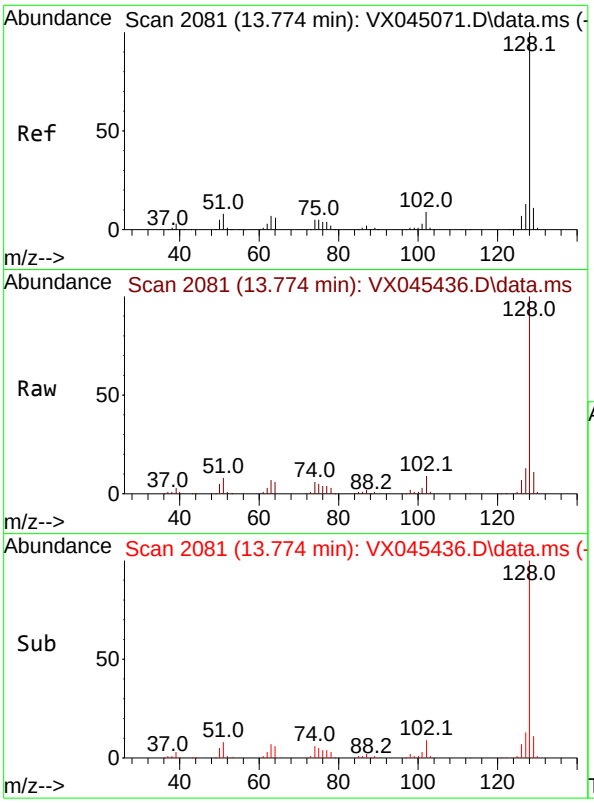


#94
Hexachlorobutadiene
Concen: 21.715 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:225 Resp: 10176

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.9	95.7
227	61.2	31.4	94.0



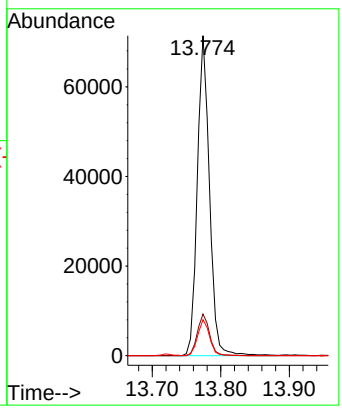


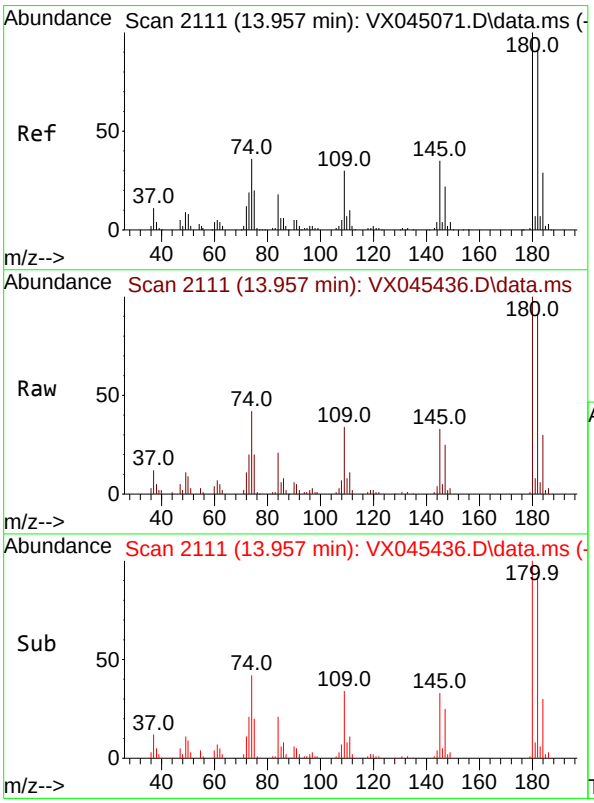
#95
Naphthalene
Concen: 20.117 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
VX0325WBS02

Tgt Ion:128 Resp: 88346

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.1	8.7	13.1

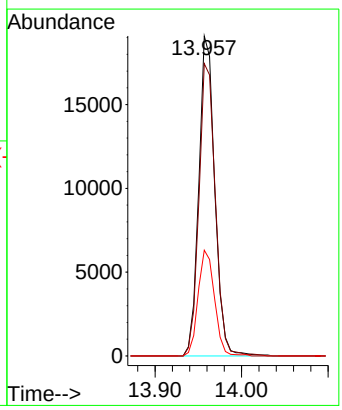




#96
1,2,3-Trichlorobenzene
Concen: 20.276 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045436.D
Acq: 25 Mar 2025 13:35

Tgt Ion:180 Resp: 24449

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.5	142.6
145	34.0	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	74211	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	134524	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	120753	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	70804	59.981	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.960%			
35) Dibromofluoromethane	5.379	113	50433	56.066	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.140%			
50) Toluene-d8	8.647	98	172074	52.766	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.540%			
62) 4-Bromofluorobenzene	11.079	95	67367	62.340	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 124.680%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	60758	65.042	ug/l	94
3) Chloromethane	1.307	50	65638	57.417	ug/l	99
4) Vinyl Chloride	1.374	62	57448	50.657	ug/l	95
5) Bromomethane	1.593	94	26828	60.177	ug/l	96
6) Chloroethane	1.666	64	32149	61.459	ug/l	96
7) Trichlorofluoromethane	1.874	101	85653	57.053	ug/l	96
8) Diethyl Ether	2.130	74	28231	48.076	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	51717	59.961	ug/l	97
10) Methyl Iodide	2.441	142	66828	61.999	ug/l	94
11) Tert butyl alcohol	2.977	59	49333	220.637	ug/l	97
12) 1,1-Dichloroethene	2.306	96	50738	55.640	ug/l	95
13) Acrolein	2.233	56	71073	274.979	ug/l	99
14) Allyl chloride	2.654	41	95094	58.584	ug/l	93
15) Acrylonitrile	3.062	53	159315	265.855	ug/l	99
16) Acetone	2.380	43	146553	267.586	ug/l	95
17) Carbon Disulfide	2.502	76	127223	52.381	ug/l	98
18) Methyl Acetate	2.703	43	68937	52.322	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	173226	56.621	ug/l	97
20) Methylene Chloride	2.782	84	58289	53.728	ug/l	95
21) trans-1,2-Dichloroethene	3.081	96	51655	57.338	ug/l	96
22) Diisopropyl ether	3.757	45	187925	56.926	ug/l #	86
23) Vinyl Acetate	3.715	43	846535	307.283	ug/l	99
24) 1,1-Dichloroethane	3.599	63	104188	56.314	ug/l	99
25) 2-Butanone	4.556	43	227375	275.806	ug/l	98
26) 2,2-Dichloropropane	4.465	77	64832	74.708	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	61259	55.084	ug/l	92
28) Bromochloromethane	4.891	49	48535	55.038	ug/l	98
29) Tetrahydrofuran	5.001	42	145386	262.606	ug/l	99
30) Chloroform	5.086	83	105858	57.585	ug/l	100
31) Cyclohexane	5.458	56	93071	57.952	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	90456	60.925	ug/l	98
36) 1,1-Dichloropropene	5.684	75	71380	57.863	ug/l	99
37) Ethyl Acetate	4.715	43	88123	55.438	ug/l	99
38) Carbon Tetrachloride	5.672	117	76081	60.748	ug/l	95
39) Methylcyclohexane	7.373	83	89014	60.220	ug/l	94
40) Benzene	6.031	78	215997	55.448	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	49660	57.777	ug/l		97
42) 1,2-Dichloroethane	6.080	62	88076	62.788	ug/l		96
43) Isopropyl Acetate	6.336	43	137894	58.665	ug/l		99
44) Trichloroethene	7.123	130	50548	55.263	ug/l		97
45) 1,2-Dichloropropane	7.428	63	55191	55.105	ug/l		98
46) Dibromomethane	7.574	93	41994	59.321	ug/l		96
47) Bromodichloromethane	7.818	83	82371	59.321	ug/l		98
48) Methyl methacrylate	7.690	41	72446	61.434	ug/l		93
49) 1,4-Dioxane	7.659	88	25038	1006.555	ug/l		94
51) 4-Methyl-2-Pentanone	8.574	43	471412	298.691	ug/l		99
52) Toluene	8.714	92	131498	57.535	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	71263	61.389	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	81798	60.428	ug/l	#	87
55) 1,1,2-Trichloroethane	9.147	97	52613	55.917	ug/l		98
56) Ethyl methacrylate	9.116	69	88478	61.863	ug/l		93
57) 1,3-Dichloropropane	9.305	76	93052	57.147	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	223602	320.494	ug/l		98
59) 2-Hexanone	9.427	43	352820	308.540	ug/l		97
60) Dibromochloromethane	9.519	129	58941	59.912	ug/l		99
61) 1,2-Dibromoethane	9.604	107	54283	57.791	ug/l		98
64) Tetrachloroethene	9.269	164	43318	56.012	ug/l		99
65) Chlorobenzene	10.073	112	141675	55.448	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	48145	56.581	ug/l		98
67) Ethyl Benzene	10.189	91	258353	58.029	ug/l		99
68) m/p-Xylenes	10.299	106	187271	114.904	ug/l		94
69) o-Xylene	10.640	106	93451	56.852	ug/l		96
70) Styrene	10.653	104	158826	59.715	ug/l		97
71) Bromoform	10.799	173	37385	58.263	ug/l	#	99
73) Isopropylbenzene	10.957	105	248021	54.809	ug/l		99
74) N-amyl acetate	10.842	43	127825	60.199	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.207	83	85723	51.622	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	91373	67.714	ug/l		85
77) Bromobenzene	11.195	156	57349	53.713	ug/l		96
78) n-propylbenzene	11.299	91	291813	57.086	ug/l		98
79) 2-Chlorotoluene	11.360	91	180078	55.315	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	208176	56.895	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	20652	52.375	ug/l		85
82) 4-Chlorotoluene	11.451	91	206254	58.131	ug/l		98
83) tert-Butylbenzene	11.713	119	206906	55.036	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	211760	57.518	ug/l		99
85) sec-Butylbenzene	11.890	105	260527	57.851	ug/l		98
86) p-Isopropyltoluene	12.006	119	214411	58.914	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	103254	54.210	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	103629	53.778	ug/l		99
89) n-Butylbenzene	12.329	91	190918	60.909	ug/l		99
90) Hexachloroethane	12.536	117	36102	54.843	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	104665	54.779	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19044	58.867	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	60255	55.384	ug/l		100
94) Hexachlorobutadiene	13.725	225	25302	56.726	ug/l		98
95) Naphthalene	13.774	128	226227	54.121	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	61143	53.273	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

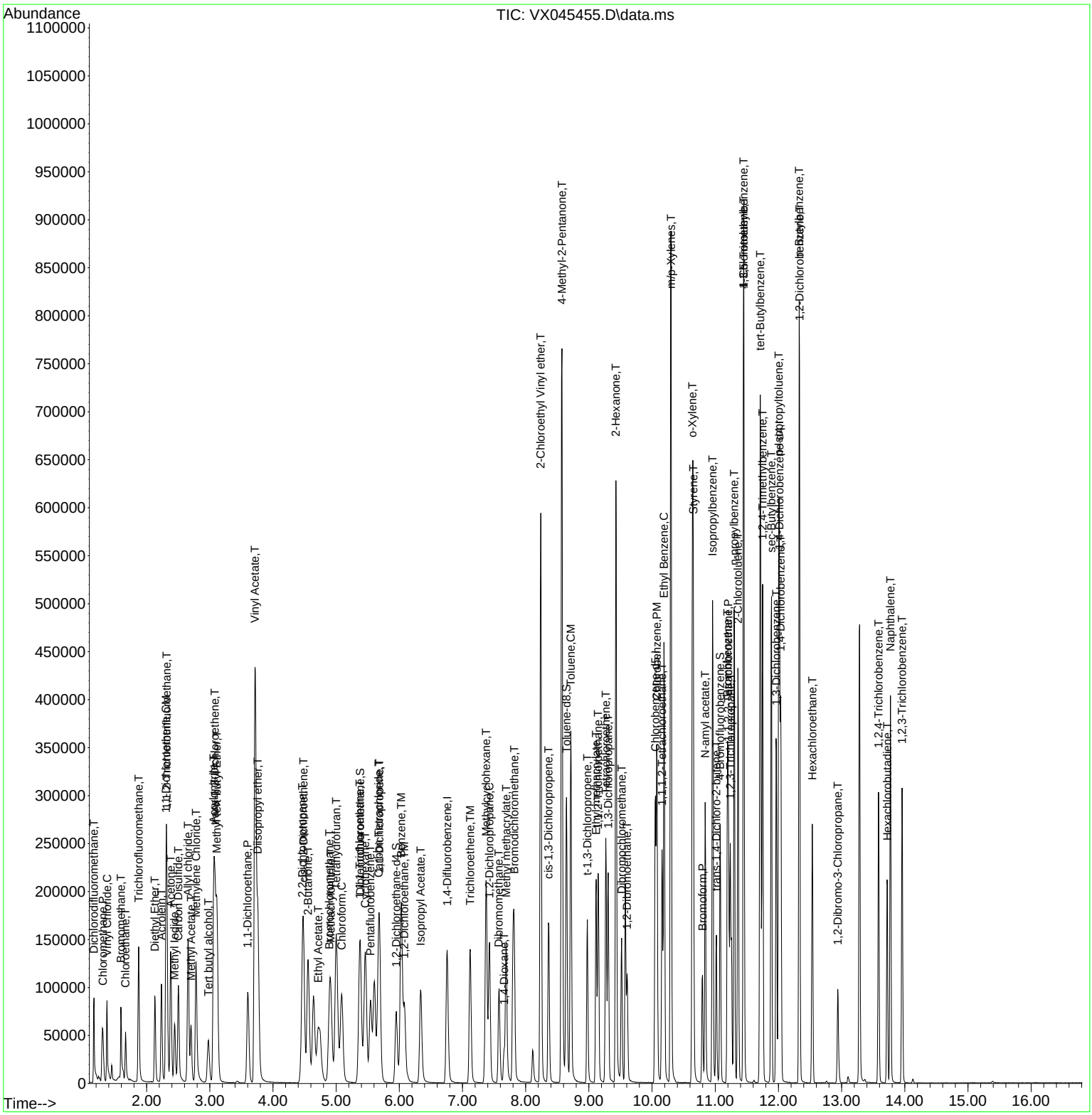
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

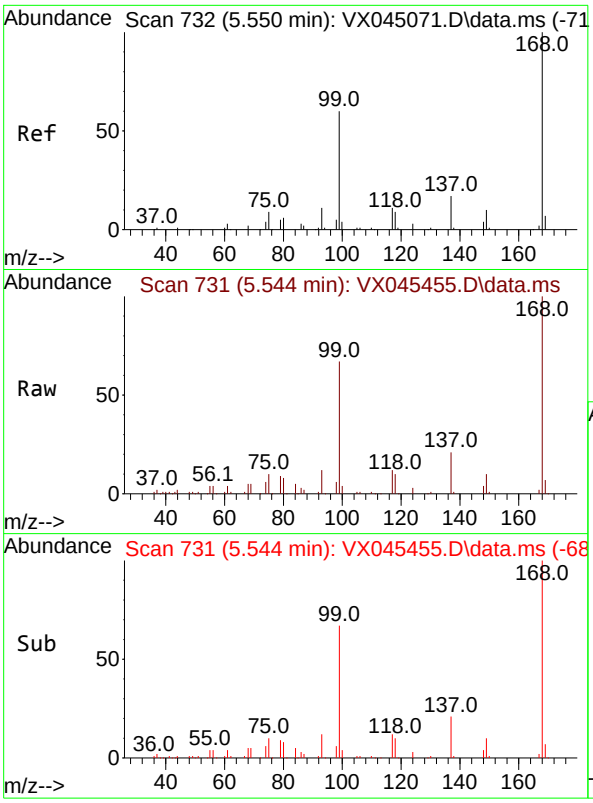
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032525\
Data File : VX045455.D
Acq On : 25 Mar 2025 21:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 26 01:47:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



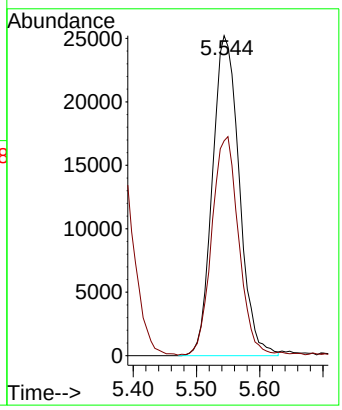


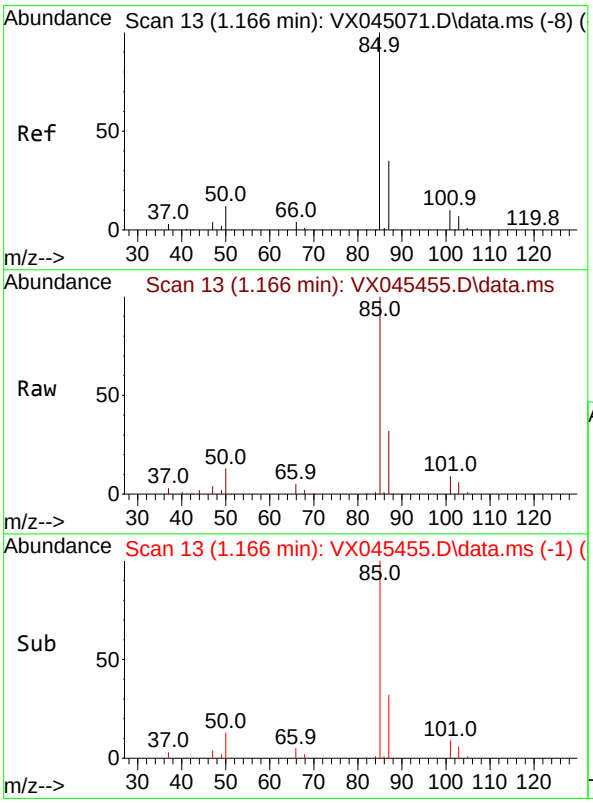
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 74211

Ion	Ratio	Lower	Upper
168	100		
99	66.9	48.2	72.4

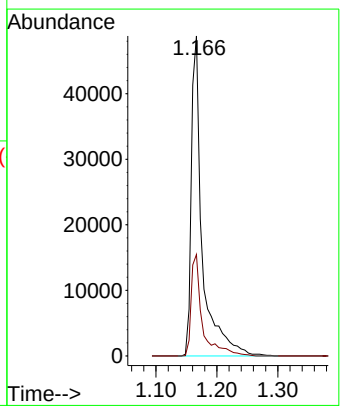


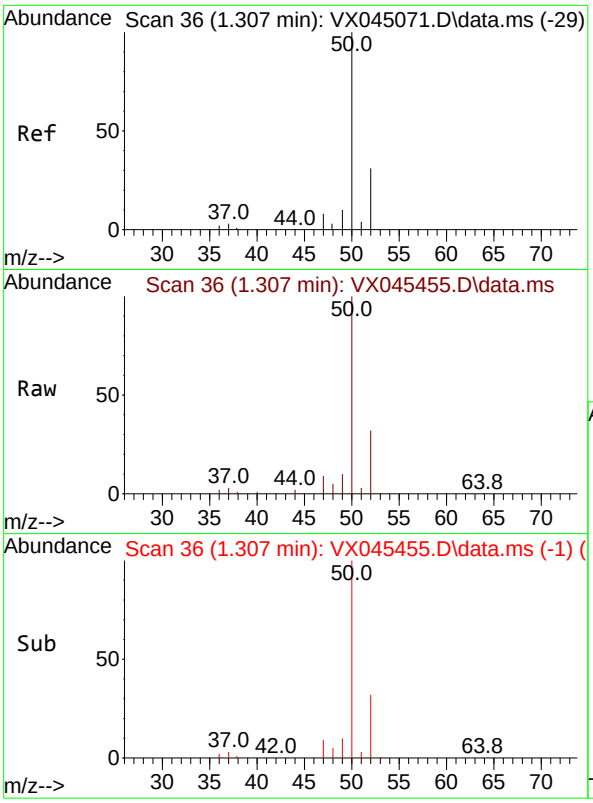


#2
Dichlorodifluoromethane
Concen: 65.042 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 85 Resp: 60758

Ion	Ratio	Lower	Upper
85	100		
87	31.7	17.4	52.3



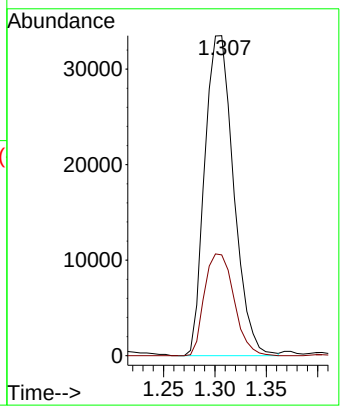


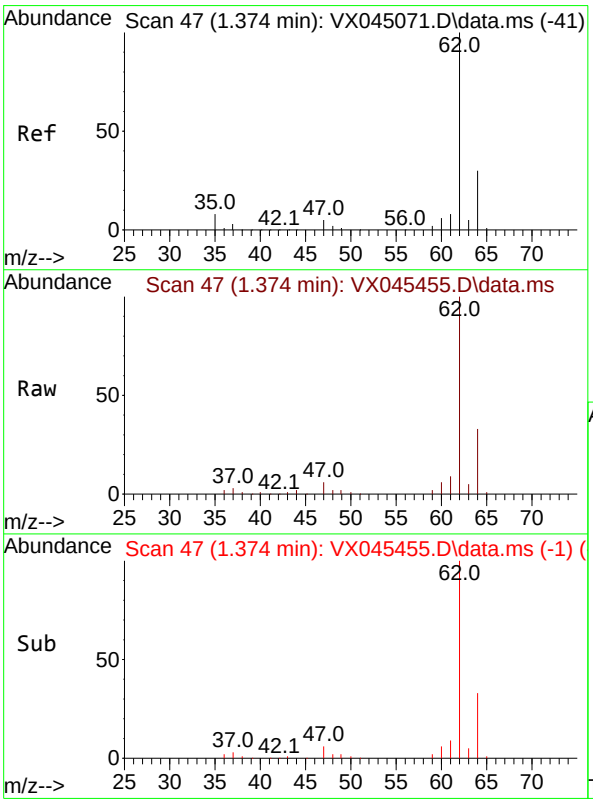
#3
Chloromethane
Concen: 57.417 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 65638

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.0	37.4

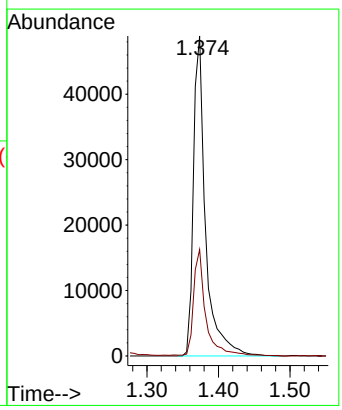


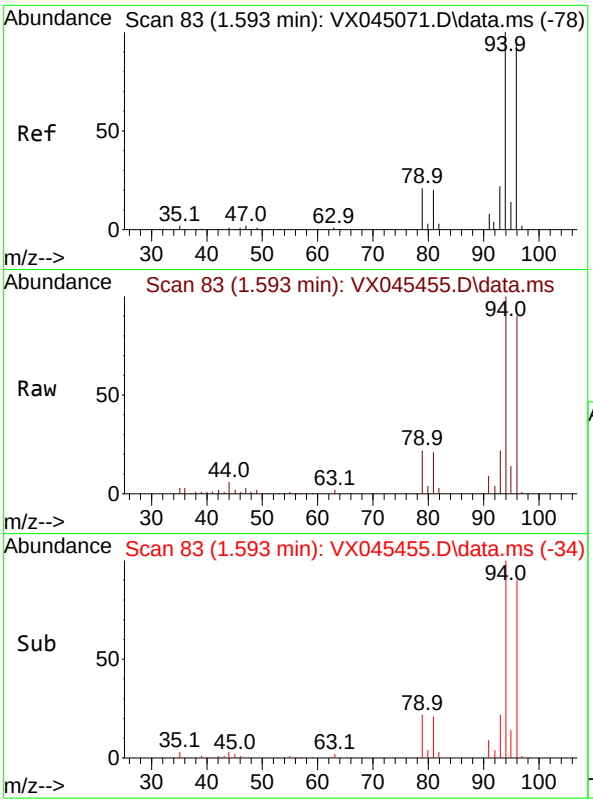


#4
Vinyl Chloride
Concen: 50.657 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 62 Resp: 57448

Ion	Ratio	Lower	Upper
62	100		
64	33.1	24.3	36.5



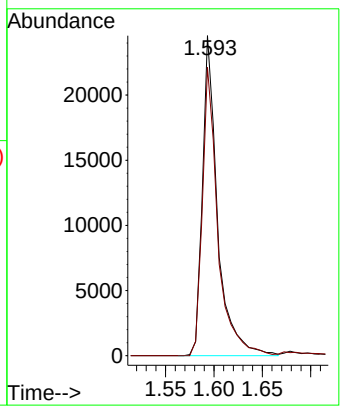


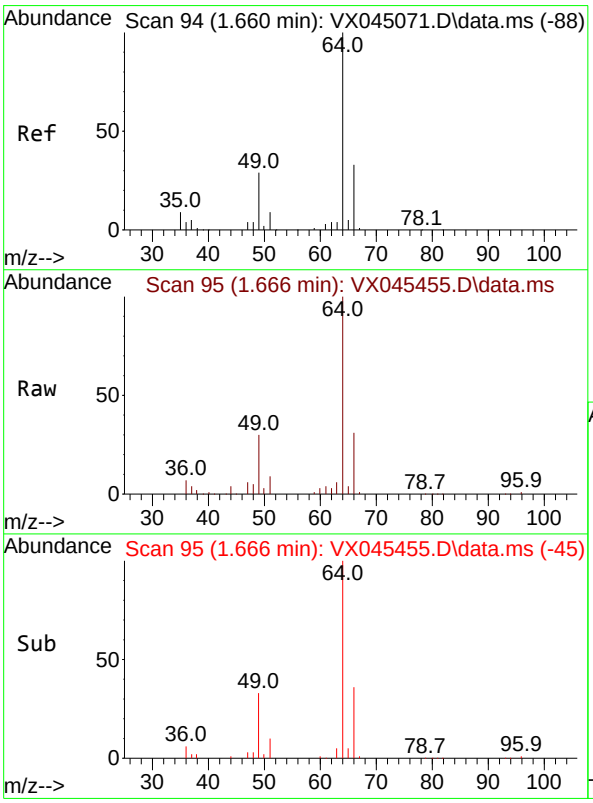
#5
Bromomethane
Concen: 60.177 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 26828

Ion	Ratio	Lower	Upper
94	100		
96	90.0	75.0	112.4

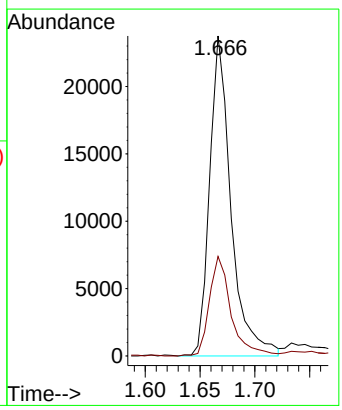


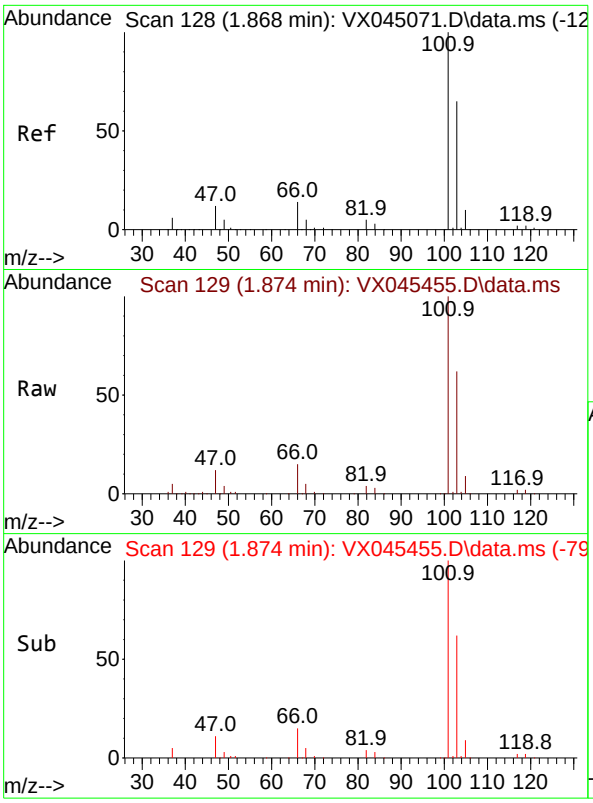


#6
Chloroethane
Concen: 61.459 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 64 Resp: 32149

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.7	40.1



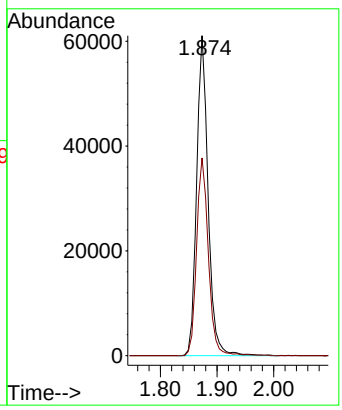


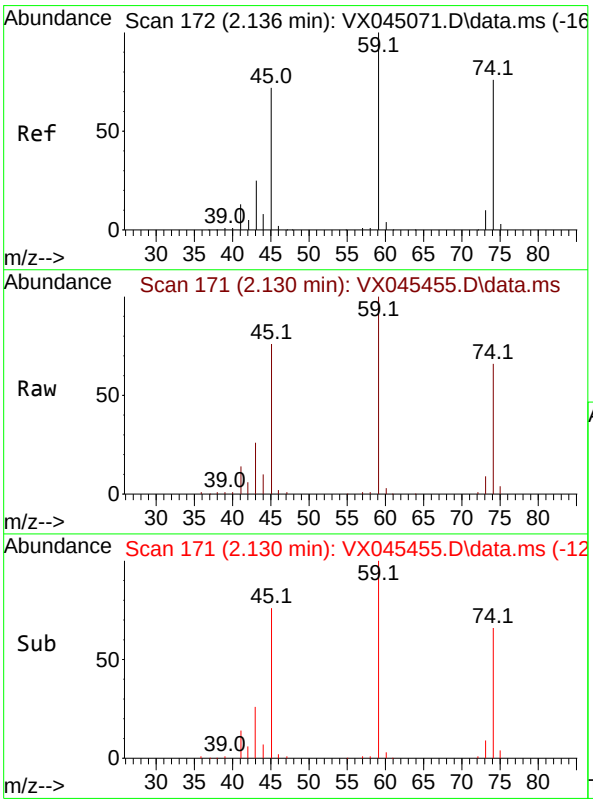
#7
Trichlorofluoromethane
Concen: 57.053 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 85653

Ion	Ratio	Lower	Upper
101	100		
103	61.8	52.1	78.1

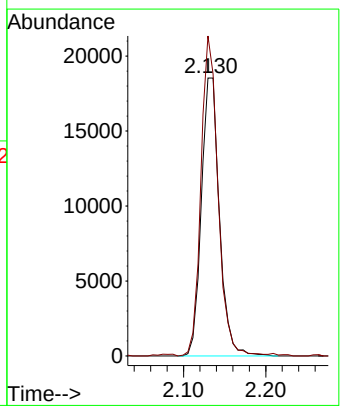


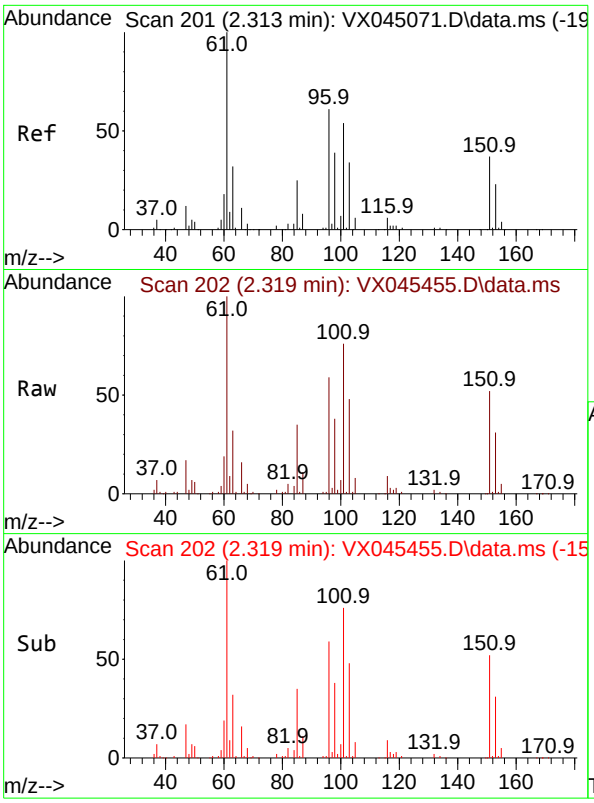


#8
Diethyl Ether
Concen: 48.076 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 74 Resp: 28231

Ion	Ratio	Lower	Upper
74	100		
45	109.1	51.5	154.5



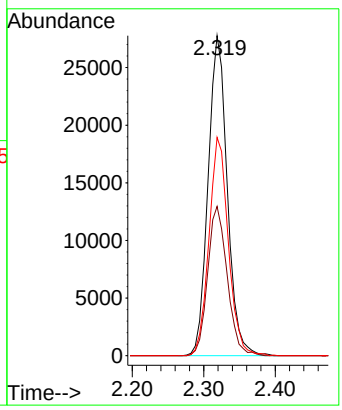


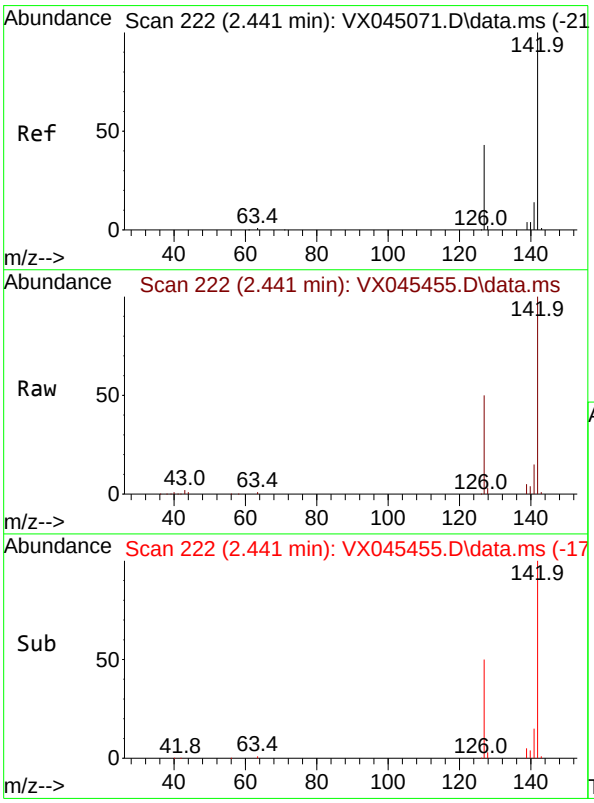
#9
1,1,2-Trichlorotrifluoroethane
Concen: 59.961 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 51717

Ion	Ratio	Lower	Upper
101	100		
85	47.6	36.2	54.4
151	68.8	56.4	84.6

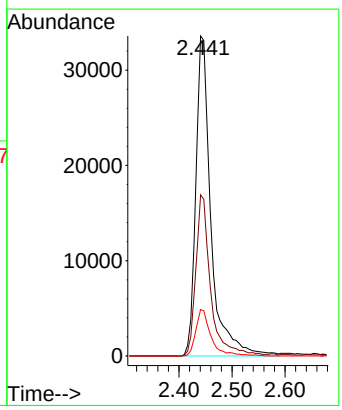


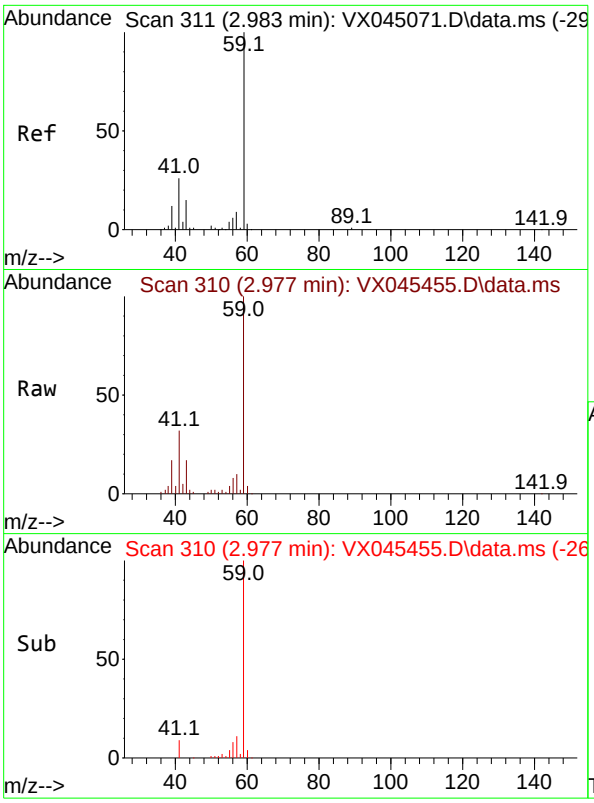


#10
Methyl Iodide
Concen: 61.999 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:142 Resp: 66828

Ion	Ratio	Lower	Upper
142	100		
127	49.2	35.4	53.2
141	14.6	11.6	17.4



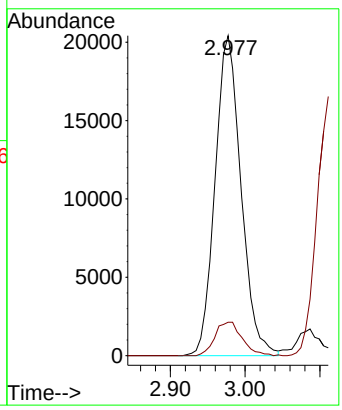


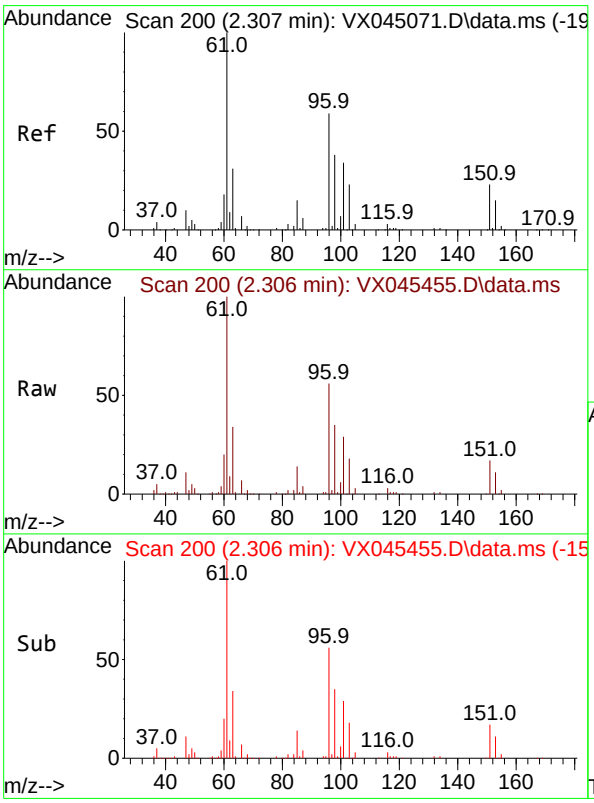
#11
Tert butyl alcohol
Concen: 220.637 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 49333

Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

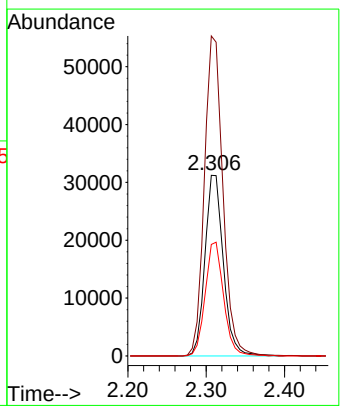


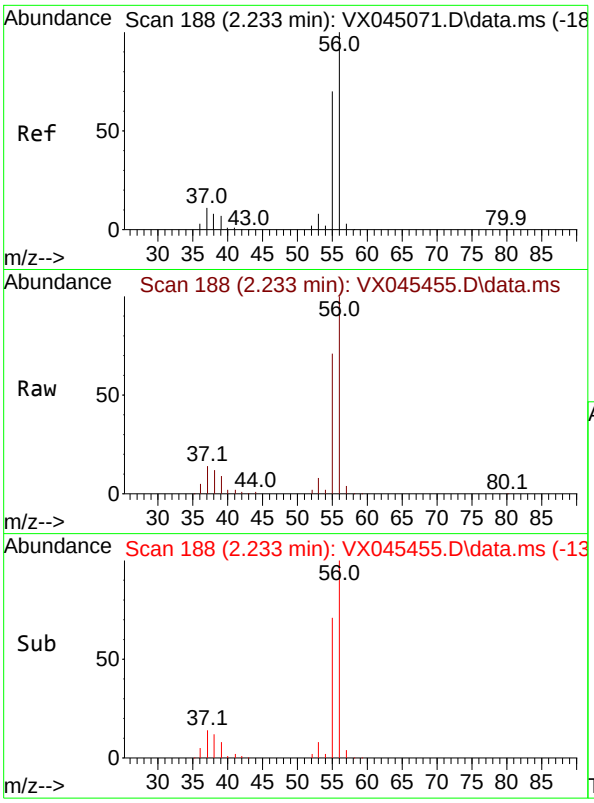


#12
1,1-Dichloroethene
Concen: 55.640 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 96 Resp: 50738

Ion	Ratio	Lower	Upper
96	100		
61	177.1	134.6	202.0
98	61.7	51.0	76.6



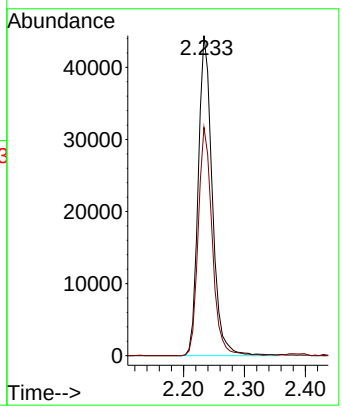


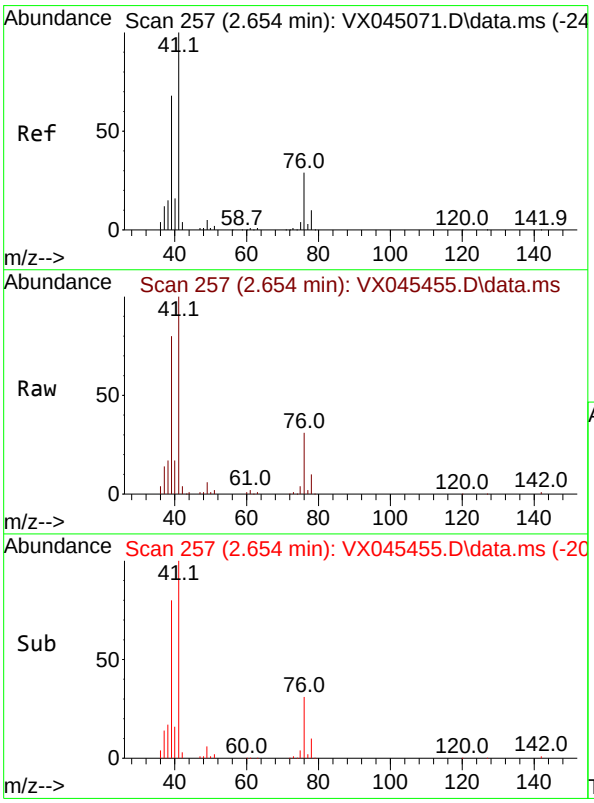
#13
Acrolein
Concen: 274.979 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 71073

Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.2	84.4

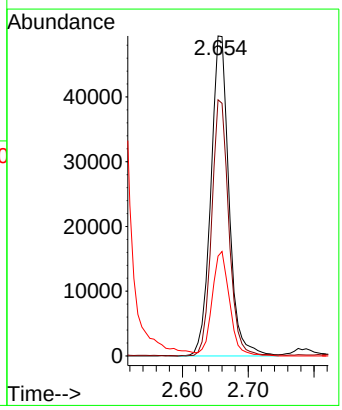


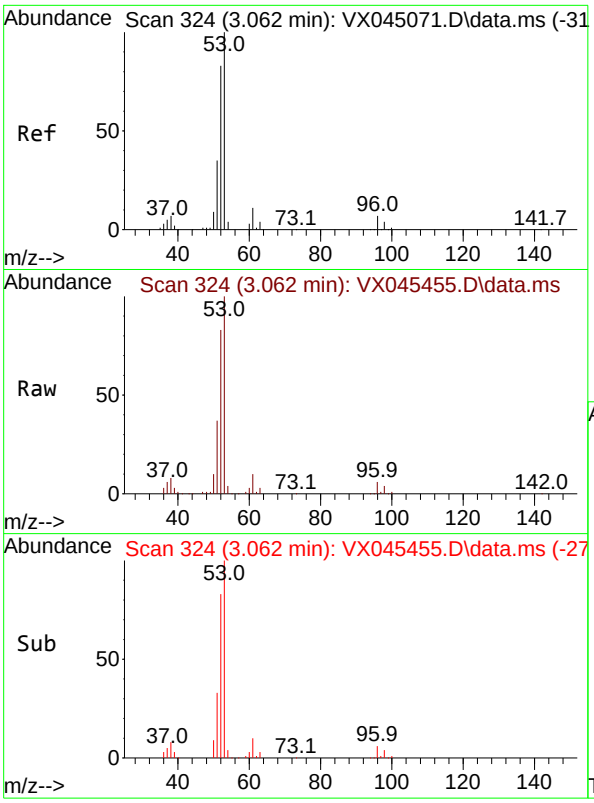


#14
Allyl chloride
Concen: 58.584 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 41 Resp: 95094

Ion	Ratio	Lower	Upper
41	100		
39	75.6	53.8	80.8
76	31.5	25.2	37.8



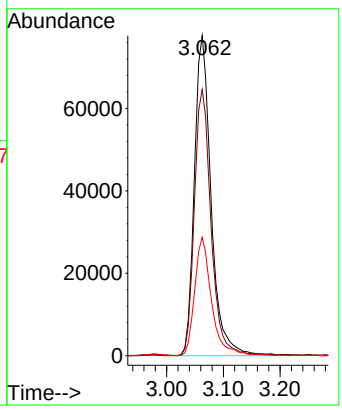


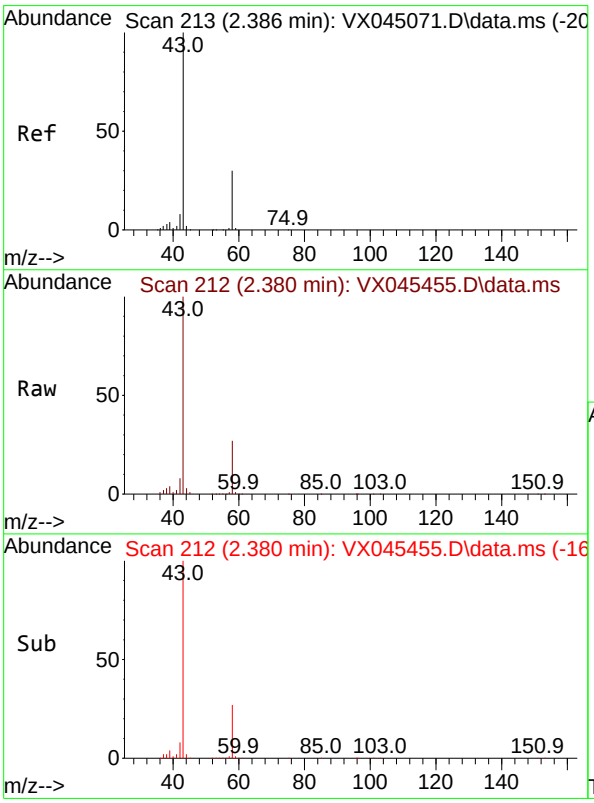
#15
Acrylonitrile
Concen: 265.855 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 159315

Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.2	99.2
51	37.0	29.0	43.4

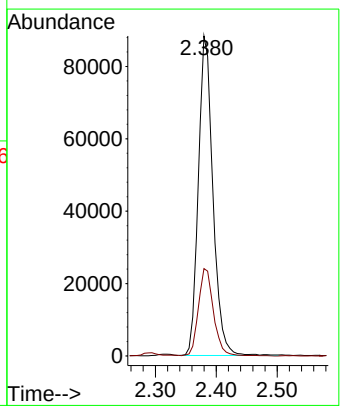


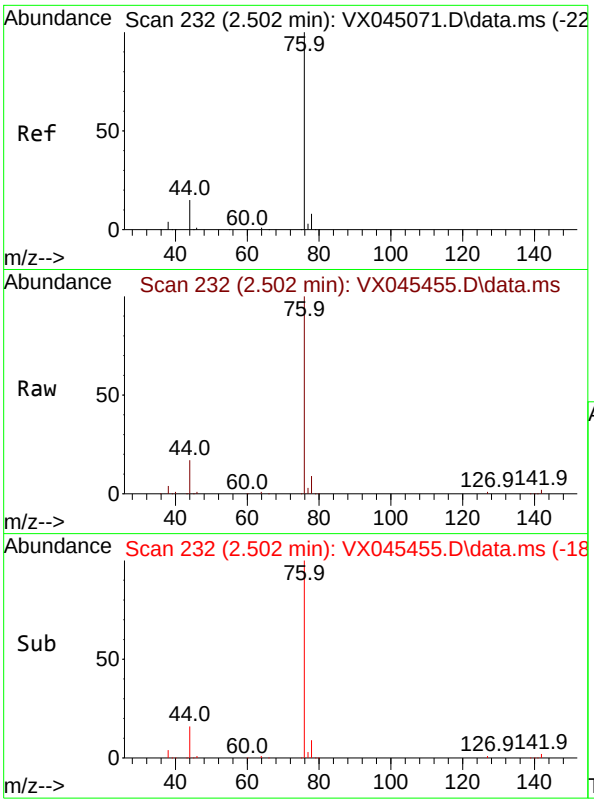


#16
Acetone
Concen: 267.586 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 146553

Ion	Ratio	Lower	Upper
43	100		
58	27.3	24.2	36.4



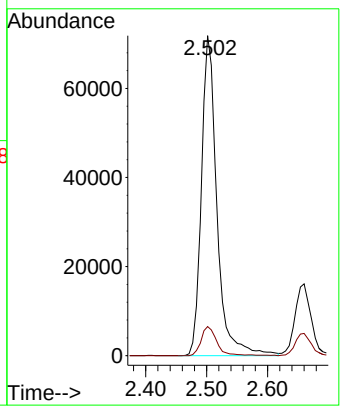


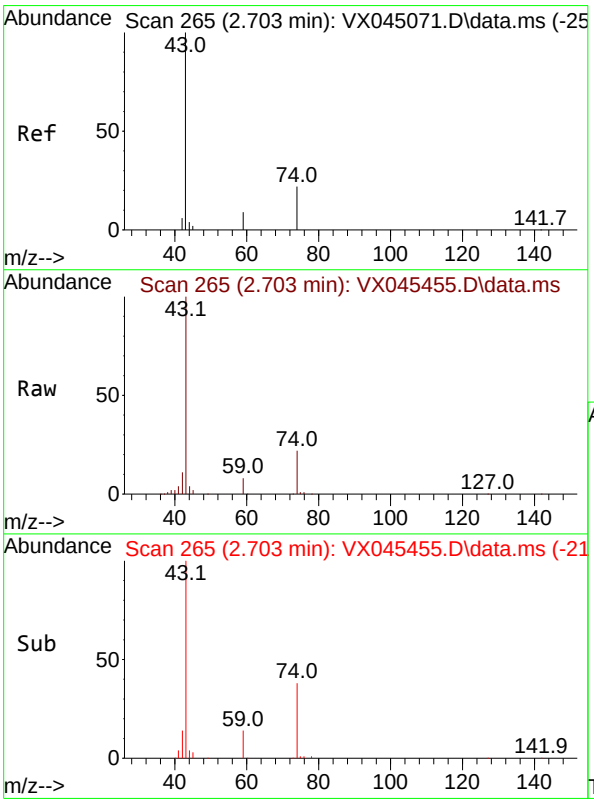
#17
Carbon Disulfide
Concen: 52.381 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 127223

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.6	9.8

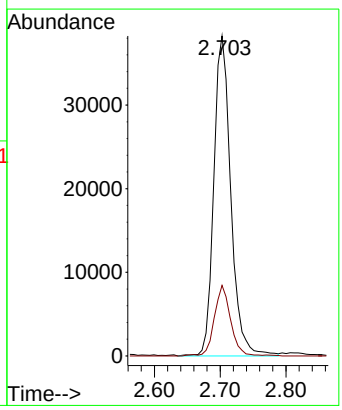


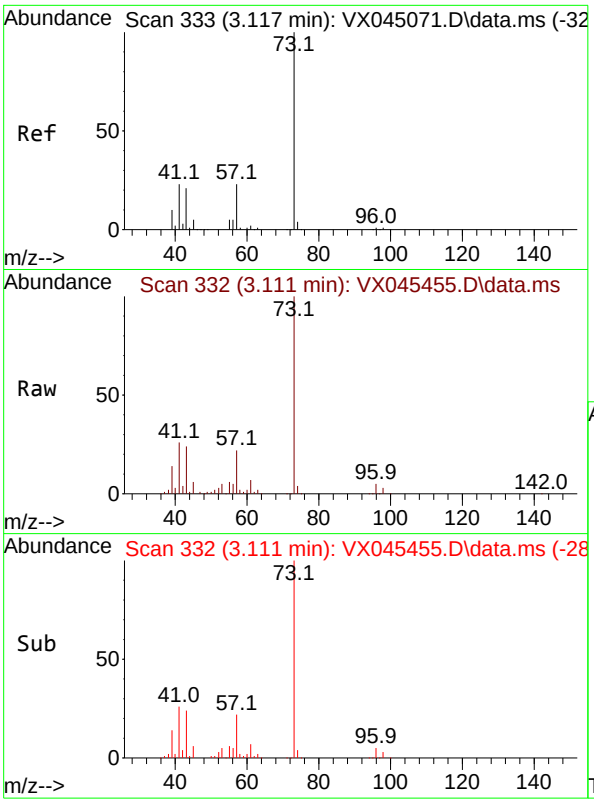


#18
Methyl Acetate
Concen: 52.322 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 68937

Ion	Ratio	Lower	Upper
43	100		
74	21.1	17.4	26.2



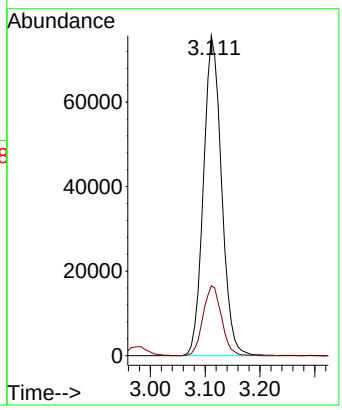


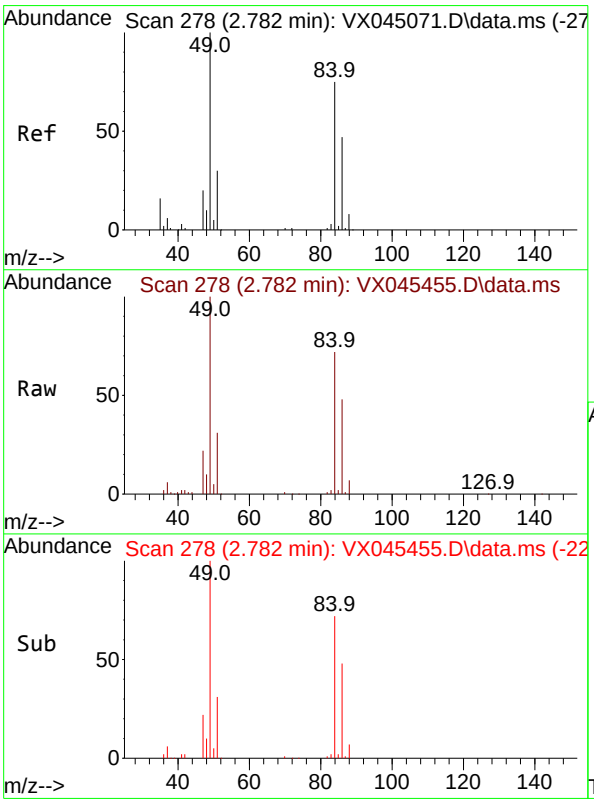
#19
Methyl tert-butyl Ether
Concen: 56.621 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 173226

Ion	Ratio	Lower	Upper
73	100		
57	21.8	18.5	27.7

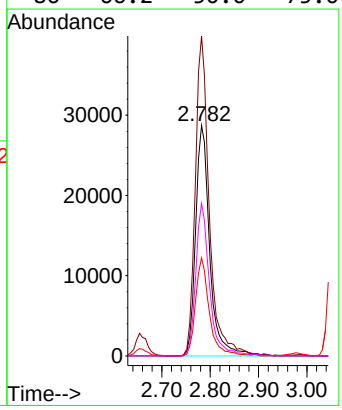


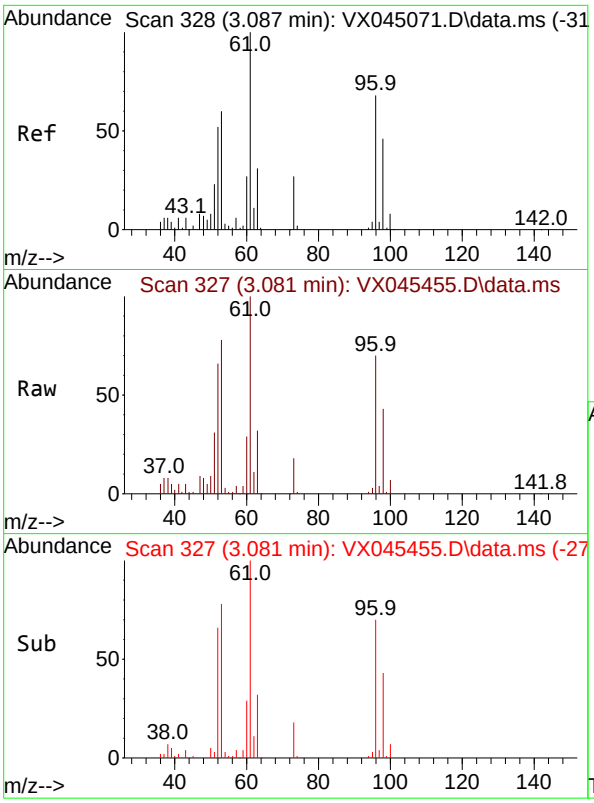


#20
Methylene Chloride
Concen: 53.728 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 84 Resp: 58289

Ion	Ratio	Lower	Upper
84	100		
49	138.8	106.5	159.7
51	42.5	32.1	48.1
86	66.2	50.0	75.0



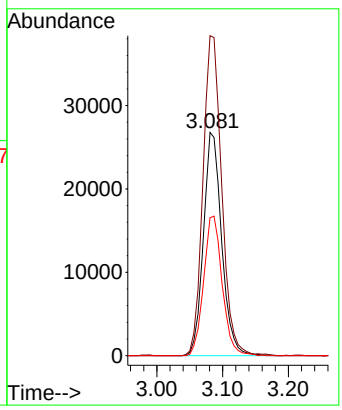


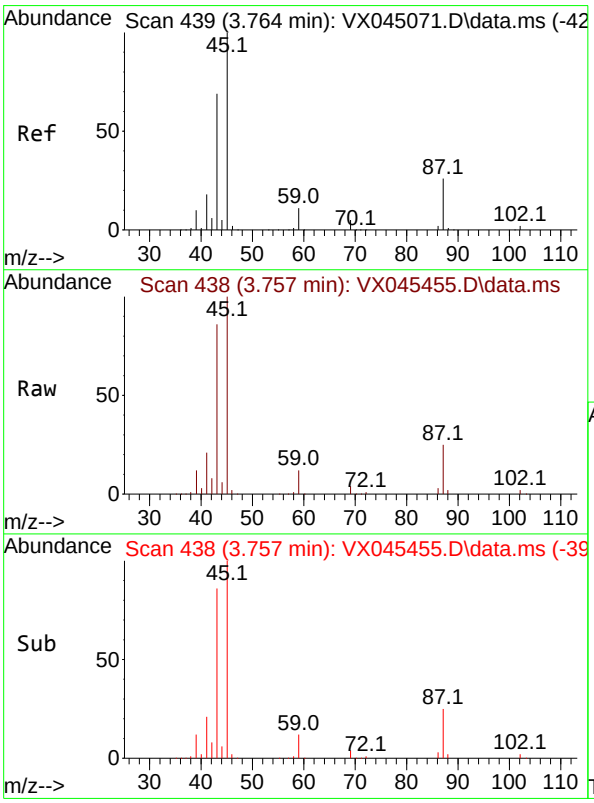
#21
trans-1,2-Dichloroethene
Concen: 57.338 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 51655

Ion	Ratio	Lower	Upper
96	100		
61	143.4	117.0	175.4
98	61.8	53.4	80.2

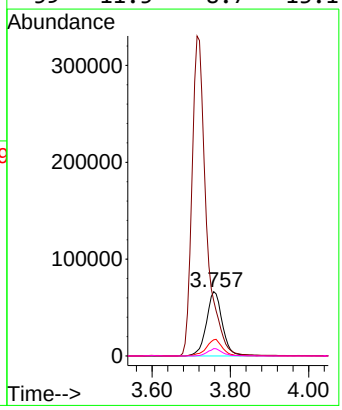


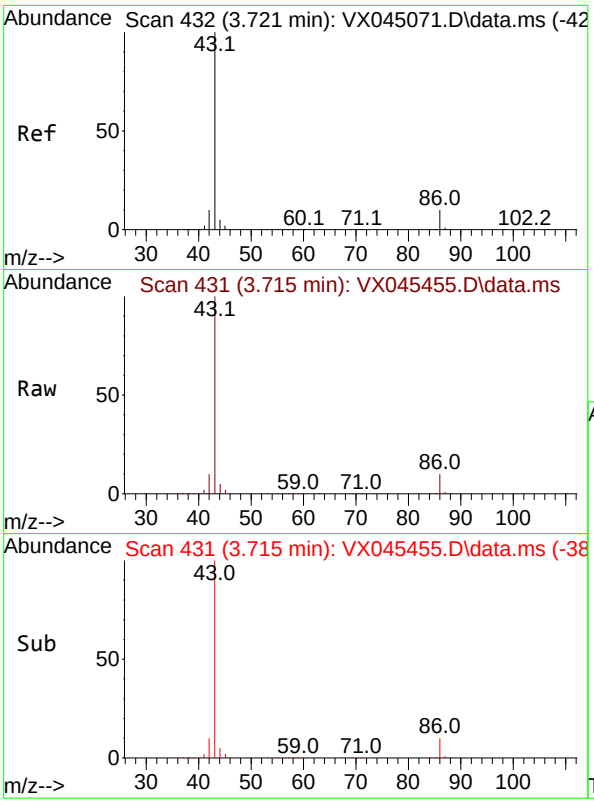


#22
Diisopropyl ether
Concen: 56.926 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 45 Resp: 187925

Ion	Ratio	Lower	Upper
45	100		
43	85.8	54.9	82.3#
87	25.2	21.0	31.4
59	11.5	8.7	13.1



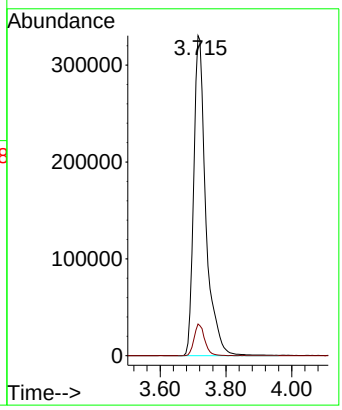


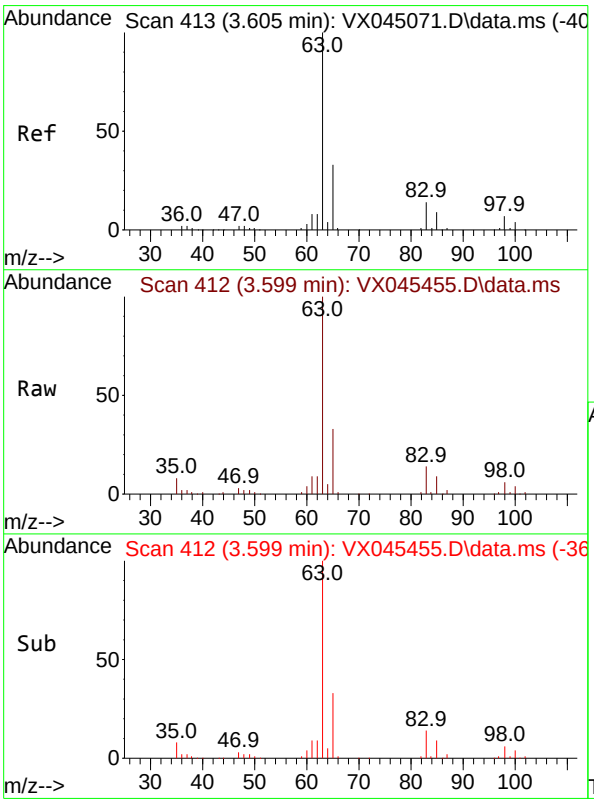
#23
Vinyl Acetate
Concen: 307.283 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 846535

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

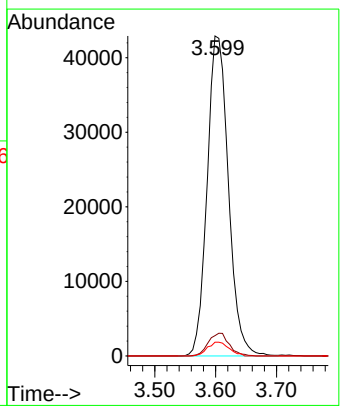


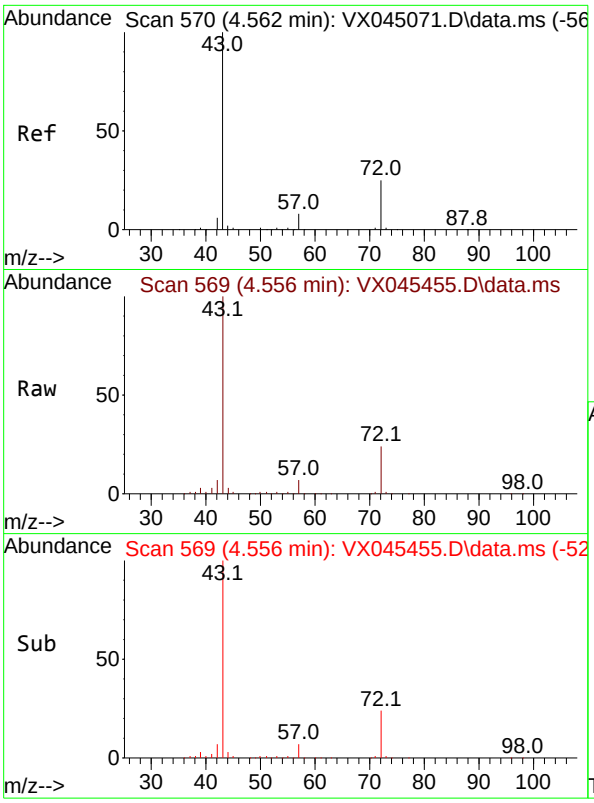


#24
1,1-Dichloroethane
Concen: 56.314 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 63 Resp: 104188

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.4	10.2
100	4.3	2.1	6.5



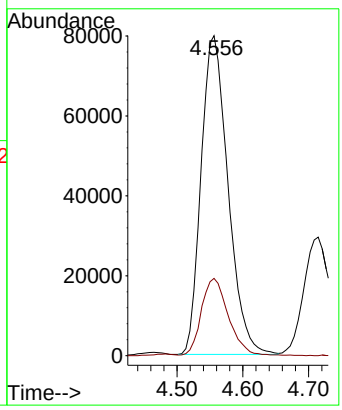


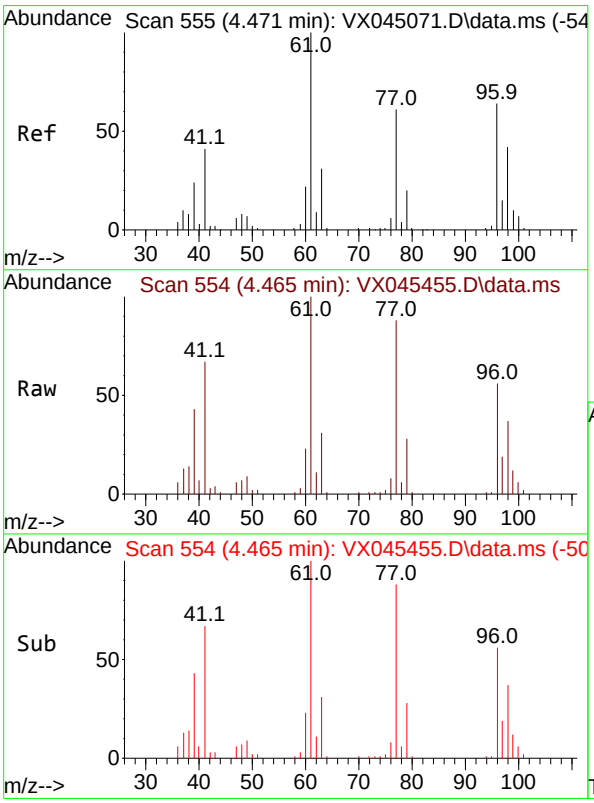
#25
2-Butanone
Concen: 275.806 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 227375

Ion	Ratio	Lower	Upper
43	100		
72	24.0	20.0	30.0

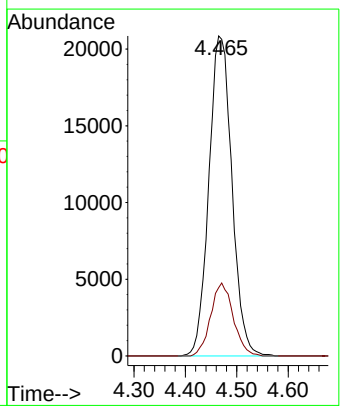


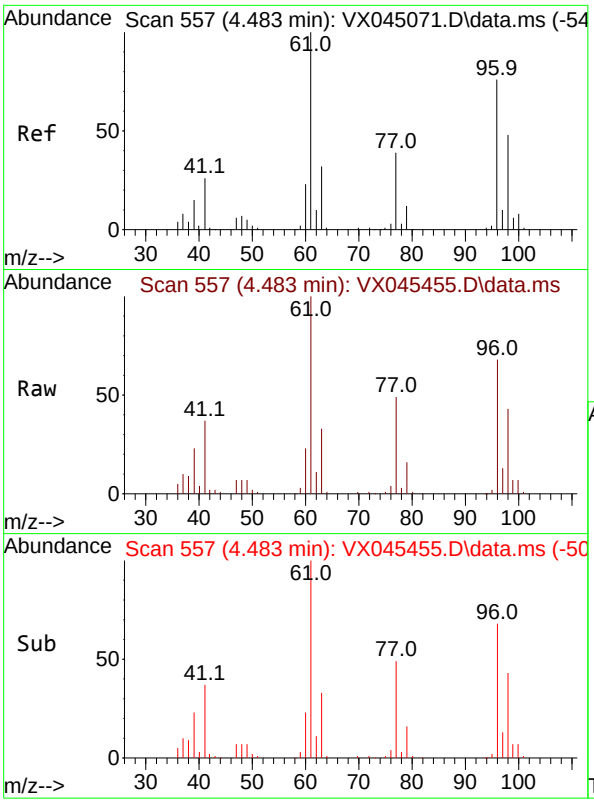


#26
2,2-Dichloropropane
Concen: 74.708 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 77 Resp: 64832

Ion	Ratio	Lower	Upper
77	100		
97	22.4	12.4	37.0



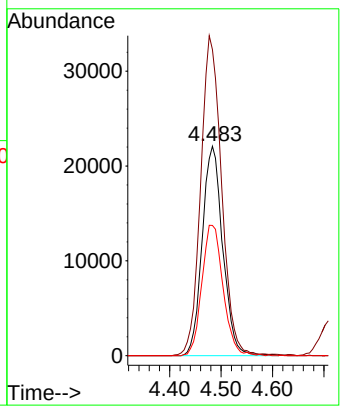


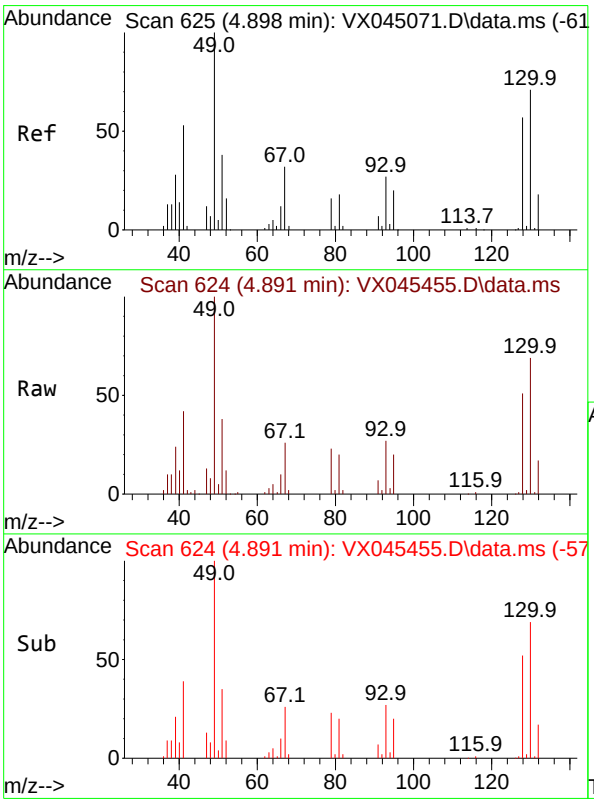
#27
cis-1,2-Dichloroethene
Concen: 55.084 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 61259

Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	283.2
98	64.3	0.0	128.0

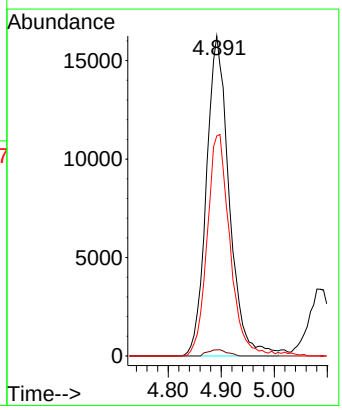


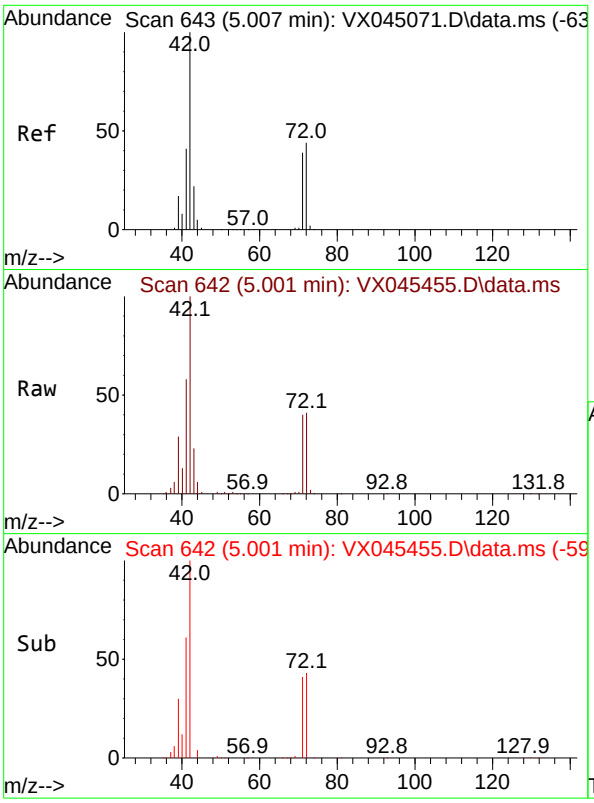


#28
Bromochloromethane
Concen: 55.038 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 49 Resp: 48535

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	68.6	56.1	84.1



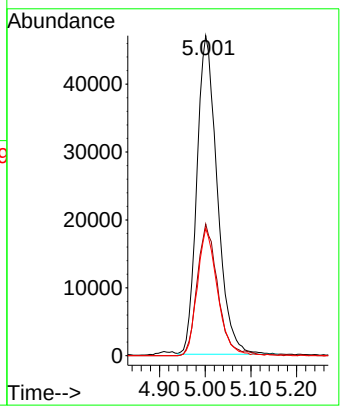


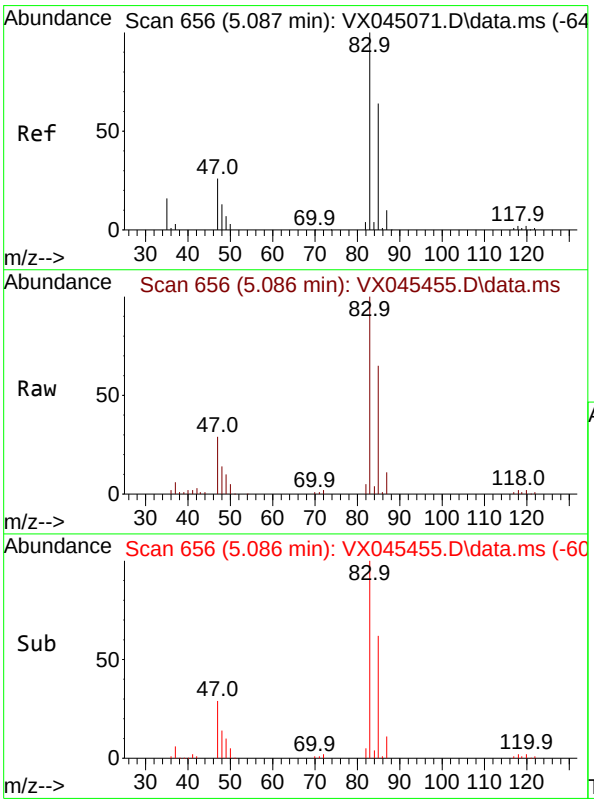
#29
Tetrahydrofuran
Concen: 262.606 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 145386

Ion	Ratio	Lower	Upper
42	100		
72	41.6	34.1	51.1
71	39.3	31.4	47.0

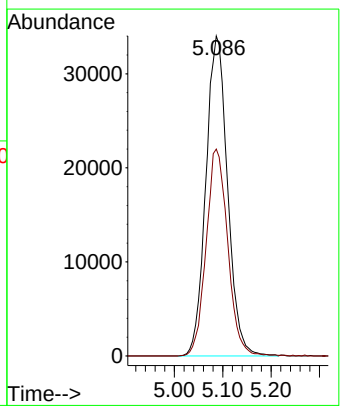


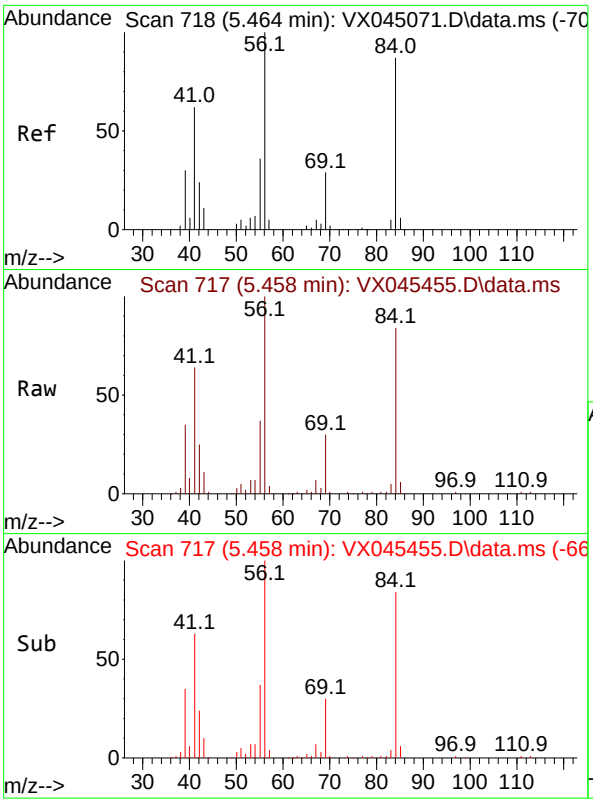


#30
Chloroform
Concen: 57.585 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 83 Resp: 105858

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.4	77.2



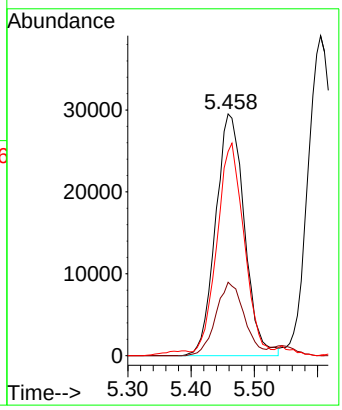


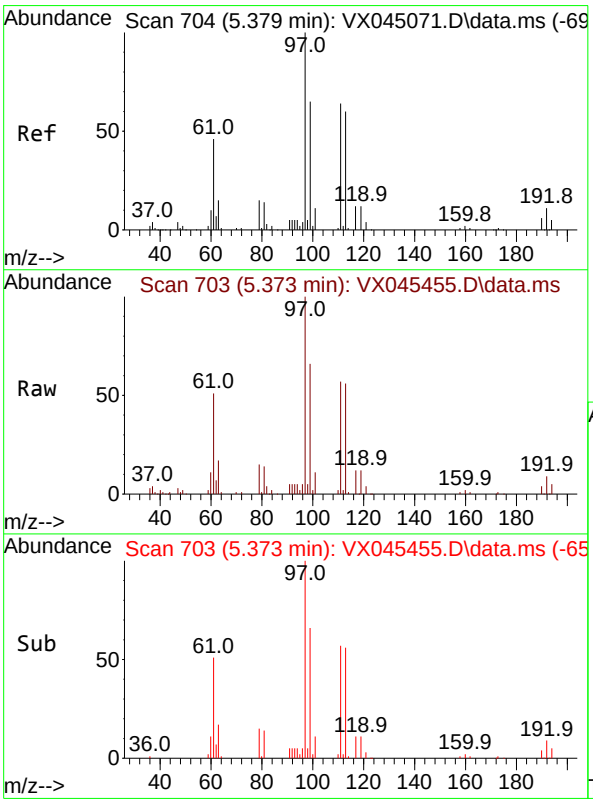
#31
Cyclohexane
Concen: 57.952 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 93071

Ion	Ratio	Lower	Upper
56	100		
69	30.4	23.4	35.2
84	82.7	69.4	104.2

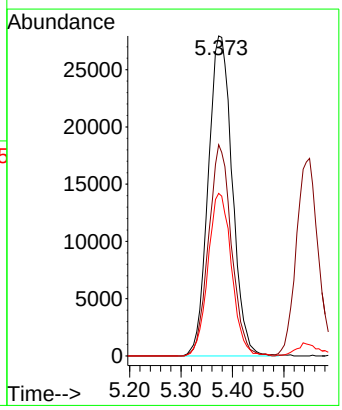


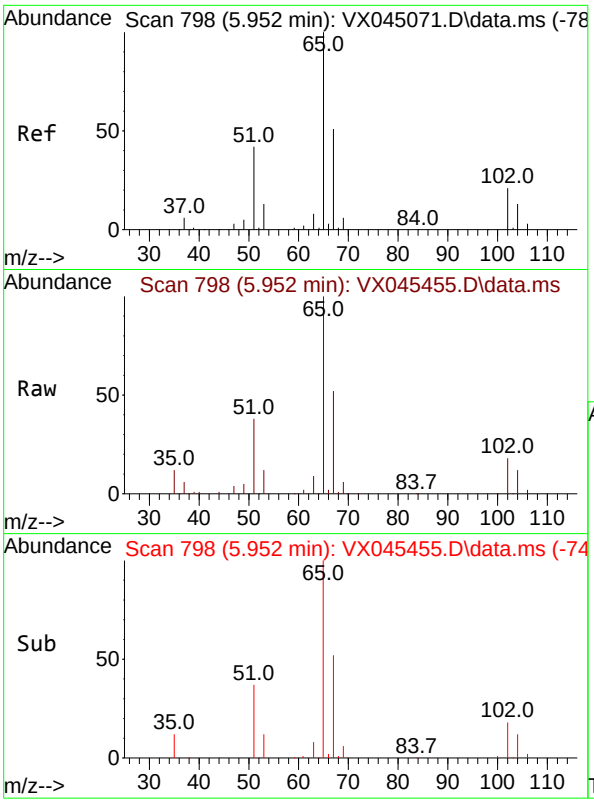


#32
1,1,1-Trichloroethane
Concen: 60.925 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 97 Resp: 90456

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.6	77.4
61	50.1	38.4	57.6



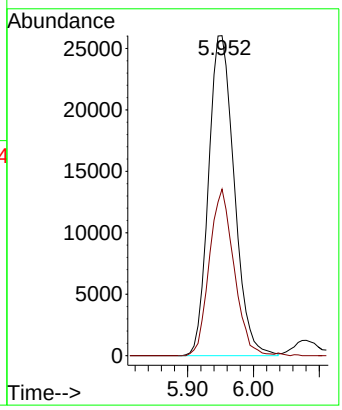


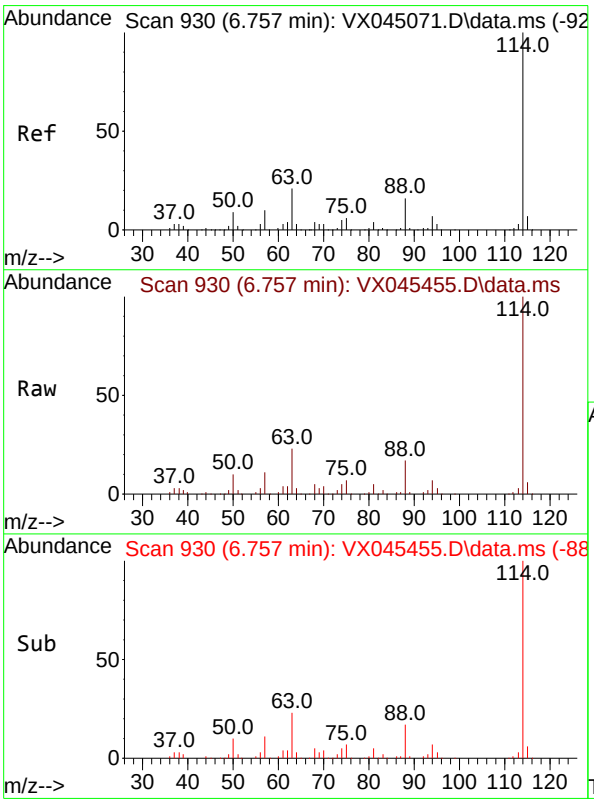
#33
1,2-Dichloroethane-d4
Concen: 59.981 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 70804

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	106.2

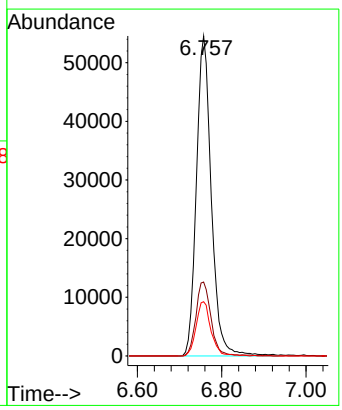


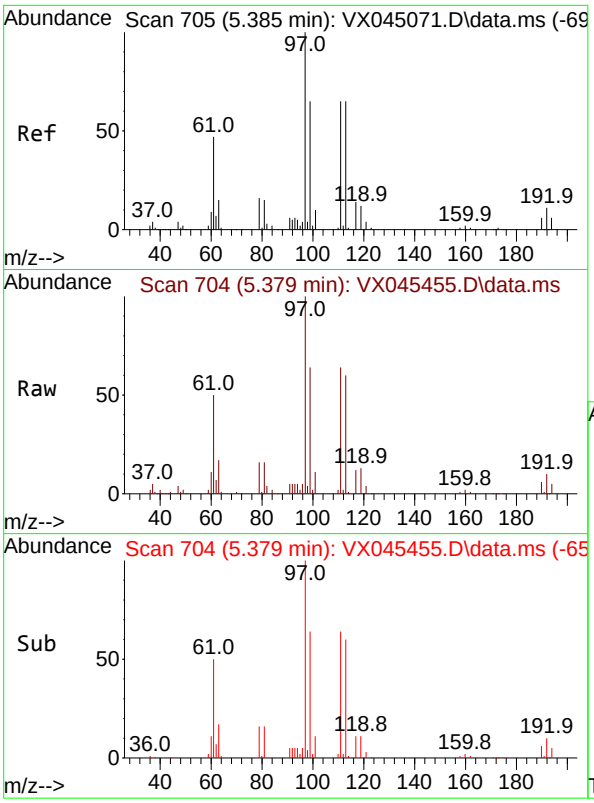


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:114 Resp: 134524

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	41.8
88	17.0	0.0	32.8



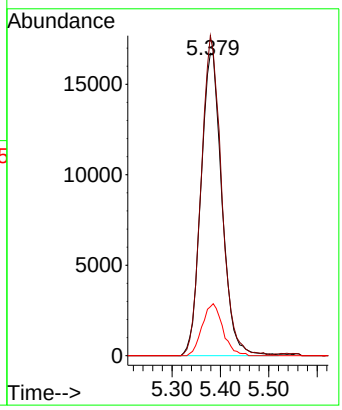


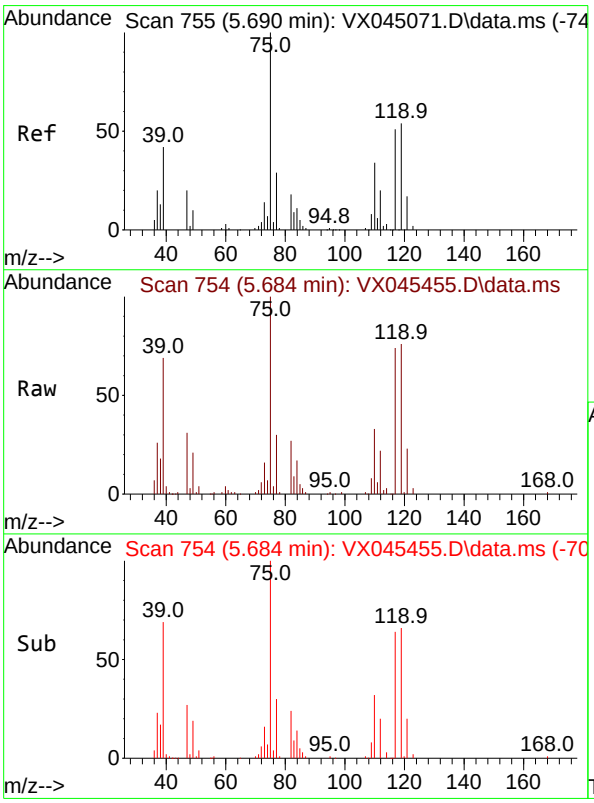
#35
Dibromofluoromethane
Concen: 56.066 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 50433

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	16.8	14.3	21.5

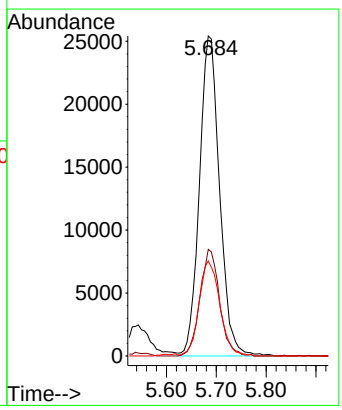


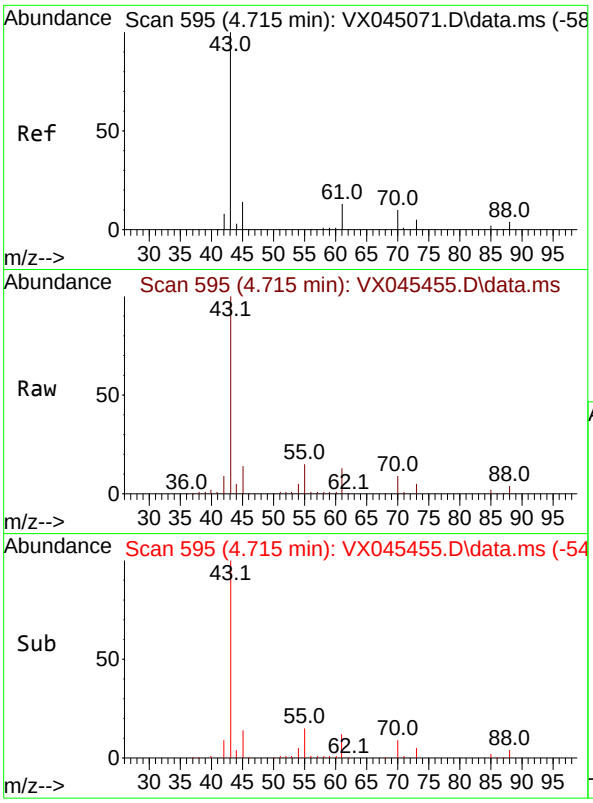


#36
1,1-Dichloropropene
Concen: 57.863 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 71380

Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.9	50.6
77	30.5	24.5	36.7



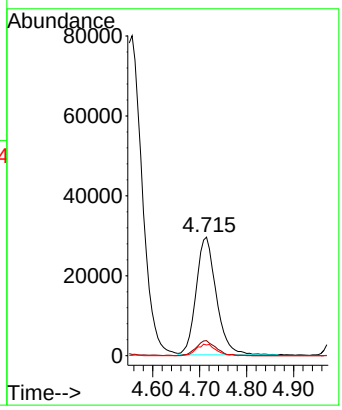


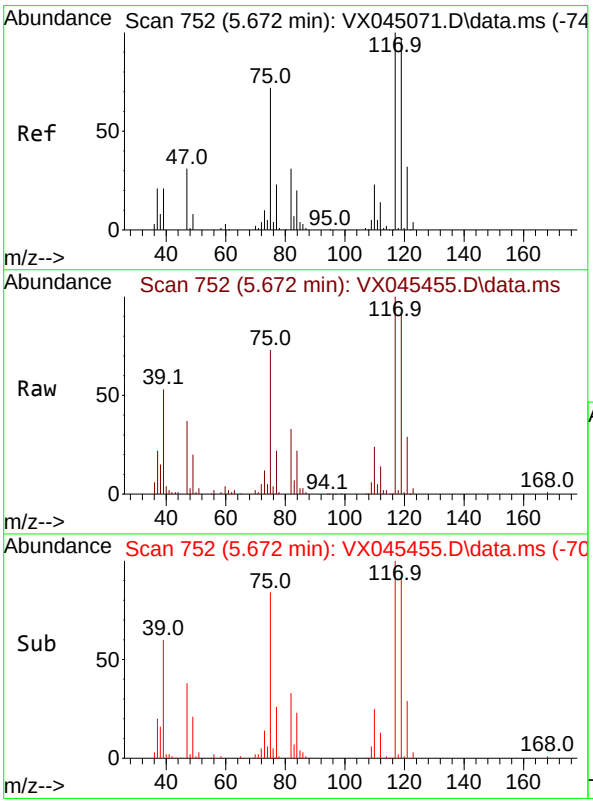
#37
Ethyl Acetate
Concen: 55.438 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 88123

Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.8	16.2
70	9.4	7.7	11.5

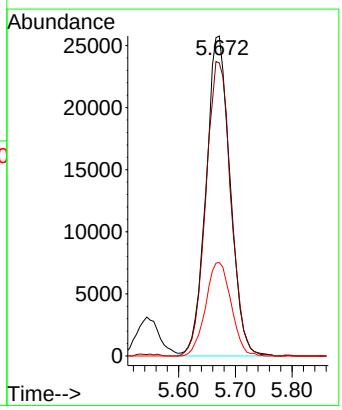


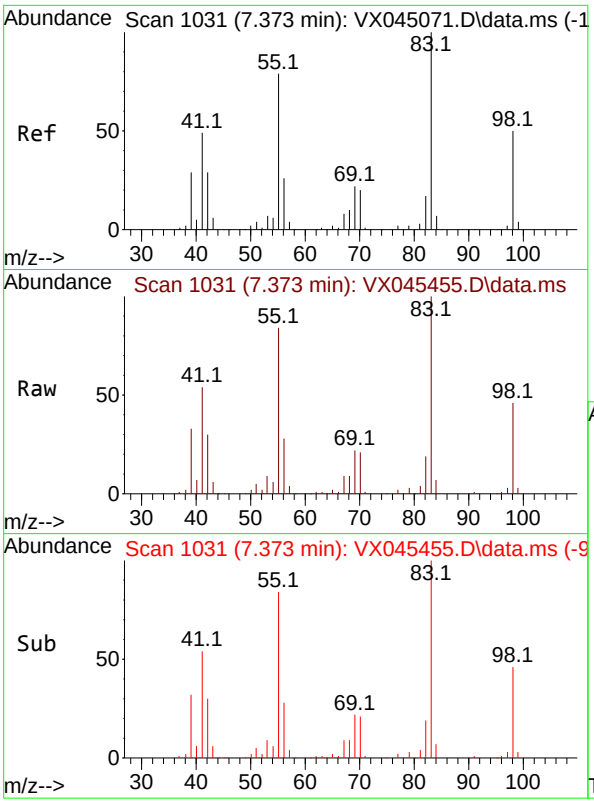


#38
Carbon Tetrachloride
Concen: 60.748 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:117 Resp: 76081

Ion	Ratio	Lower	Upper
117	100		
119	91.6	76.7	115.1
121	29.2	25.5	38.3



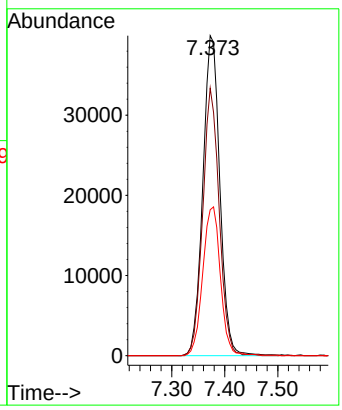


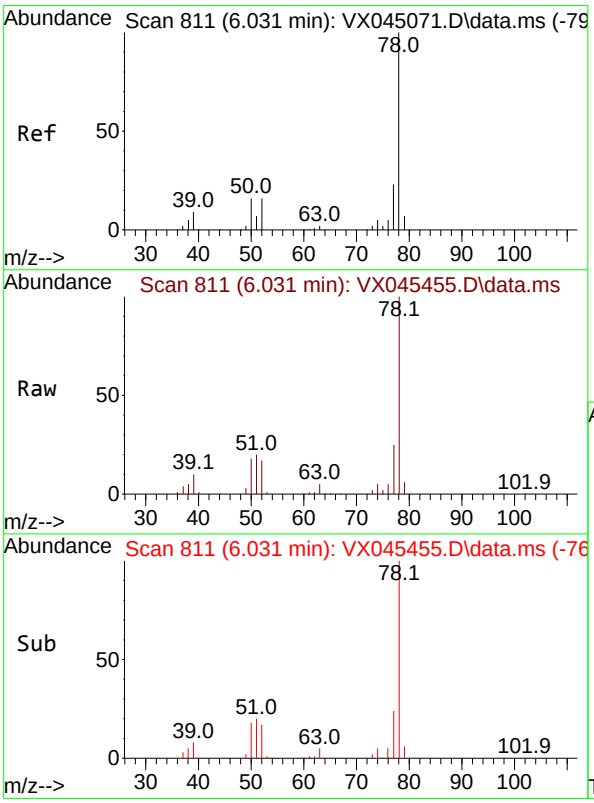
#39
Methylcyclohexane
Concen: 60.220 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 89014

Ion	Ratio	Lower	Upper
83	100		
55	83.6	63.0	94.4
98	45.6	39.7	59.5

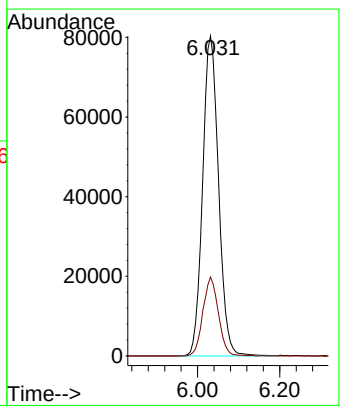


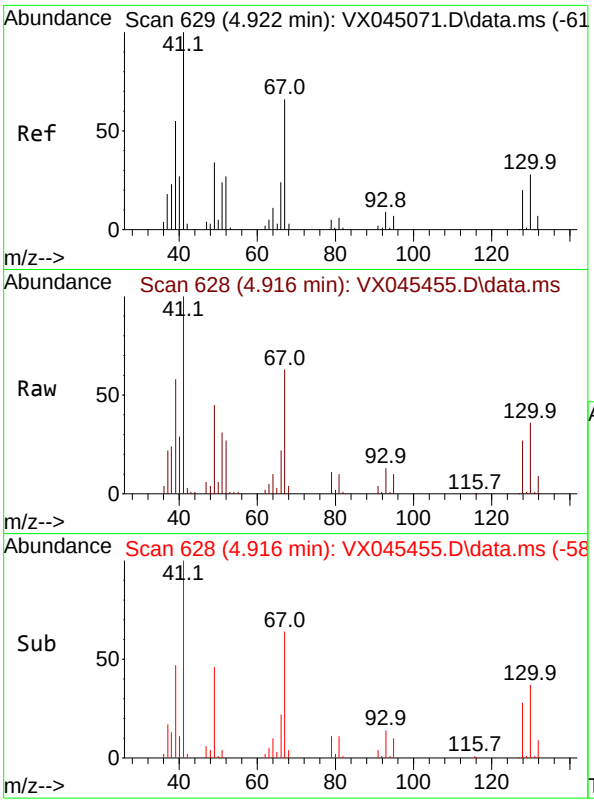


#40
Benzene
Concen: 55.448 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 78 Resp: 215997

Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.8	28.2



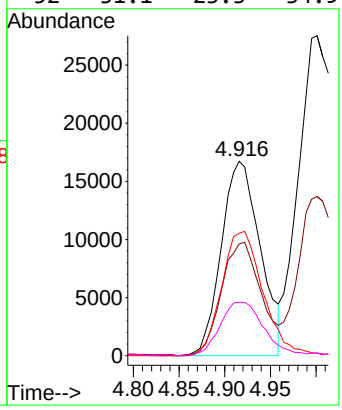


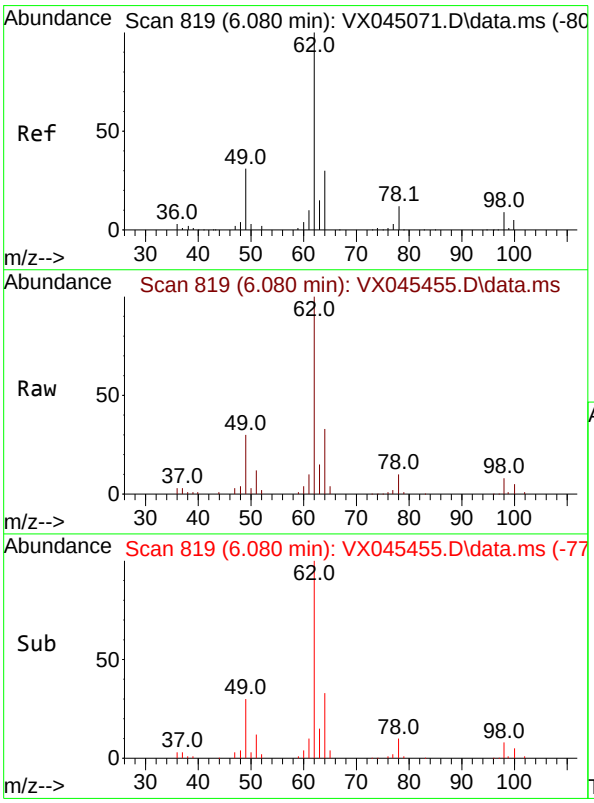
#41
Methacrylonitrile
Concen: 57.777 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 49660

Ion	Ratio	Lower	Upper
41	100		
39	59.4	44.6	67.0
67	68.0	53.9	80.9
52	31.1	23.3	34.9

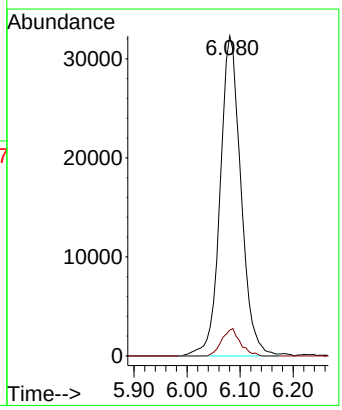


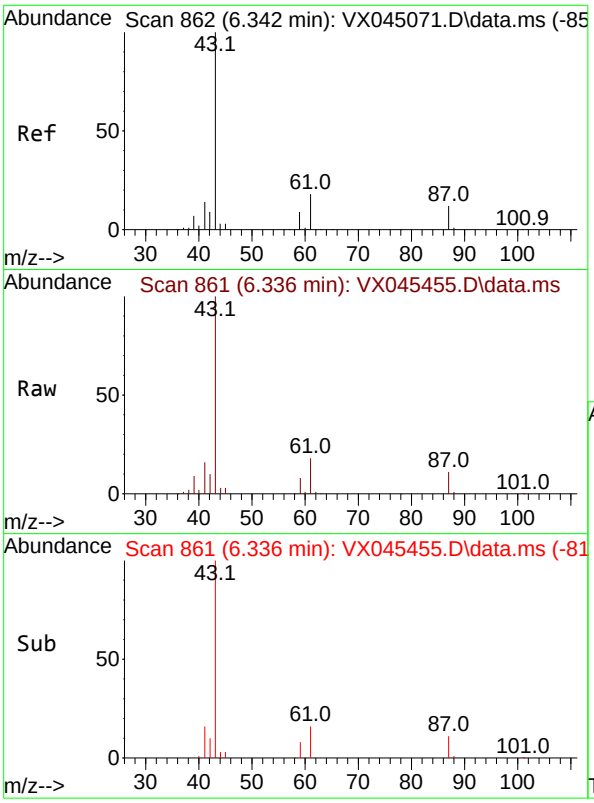


#42
1,2-Dichloroethane
Concen: 62.788 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 62 Resp: 88076

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	18.2



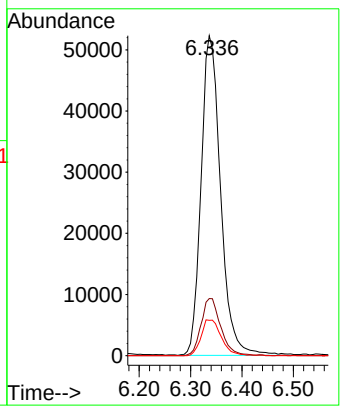


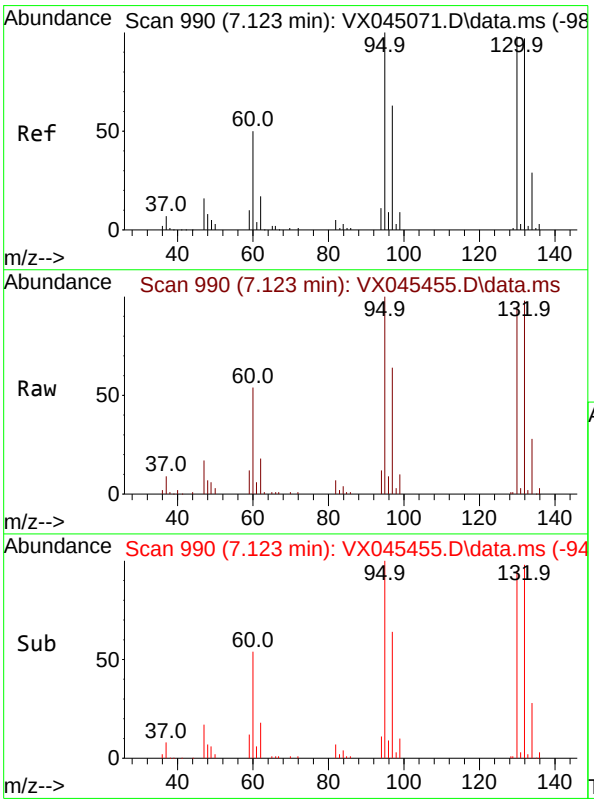
#43
Isopropyl Acetate
Concen: 58.665 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 137894

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.9	22.3
87	11.6	9.4	14.2

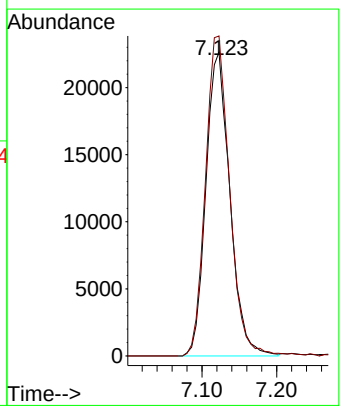


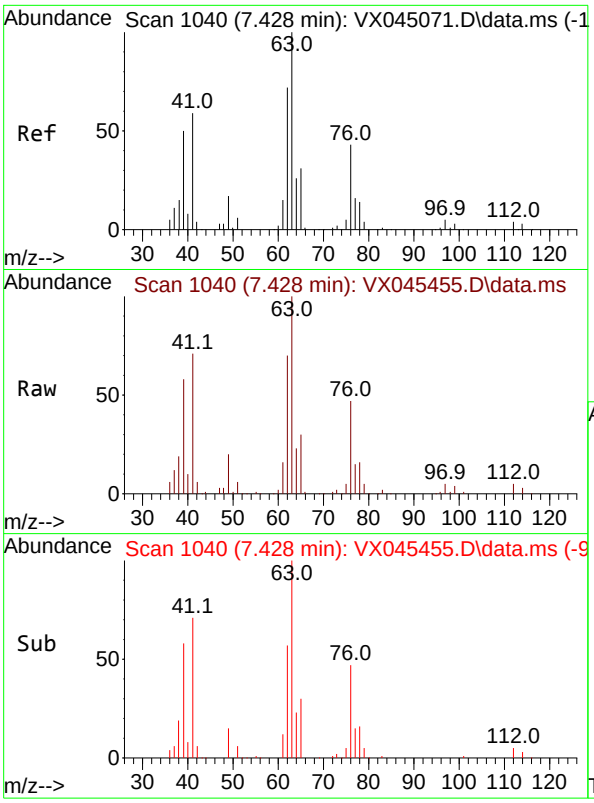


#44
Trichloroethene
Concen: 55.263 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:130 Resp: 50548

Ion	Ratio	Lower	Upper
130	100		
95	105.3	0.0	205.0



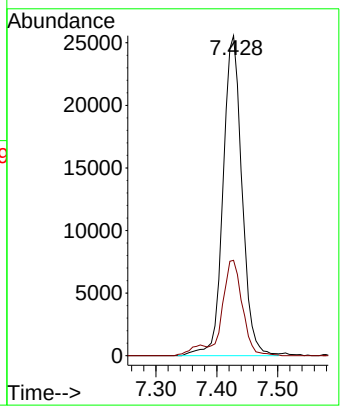


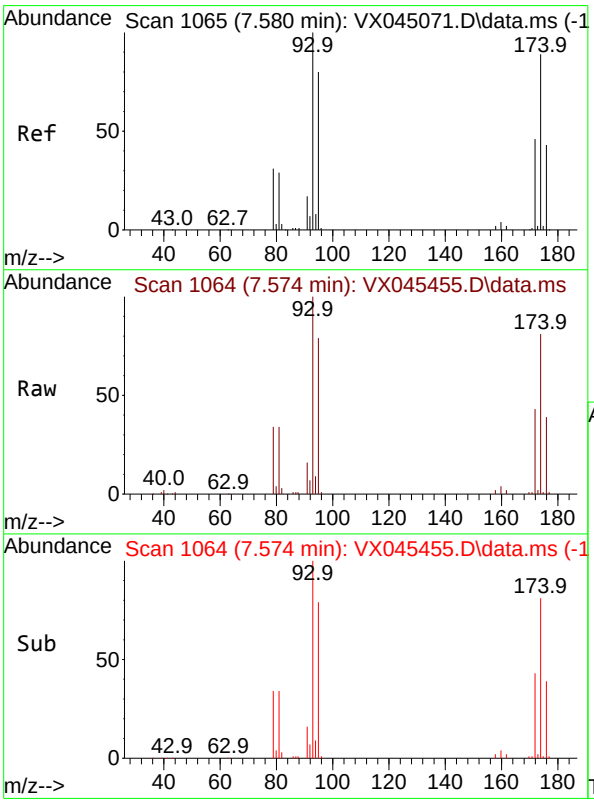
#45
1,2-Dichloropropane
Concen: 55.105 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 55191

Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.7	37.1

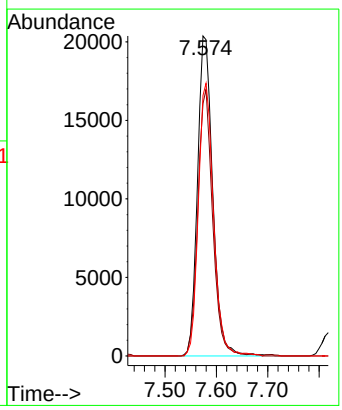


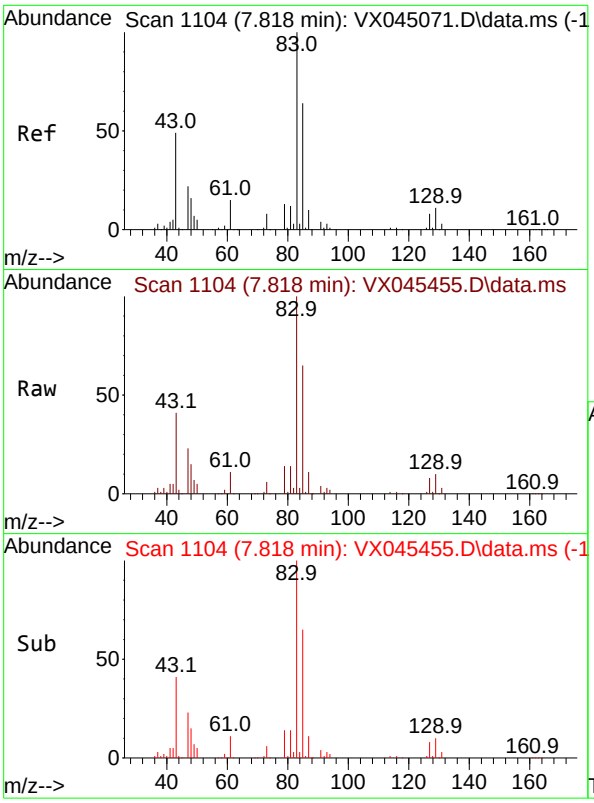


#46
Dibromomethane
Concen: 59.321 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 93 Resp: 41994

Ion	Ratio	Lower	Upper
93	100		
95	80.8	65.8	98.8
174	85.0	72.2	108.2



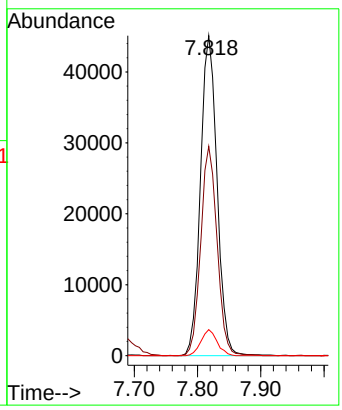


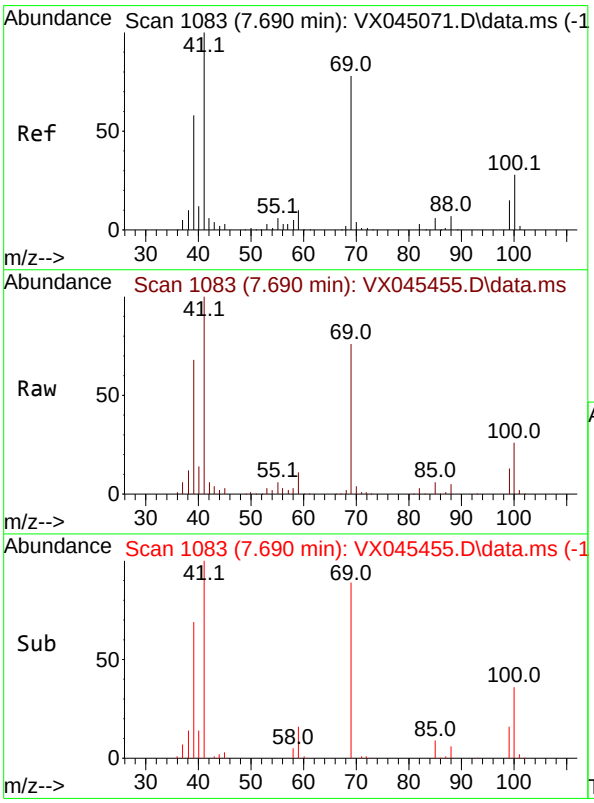
#47
Bromodichloromethane
Concen: 59.321 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 82371

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.1	76.7
127	8.1	6.4	9.6

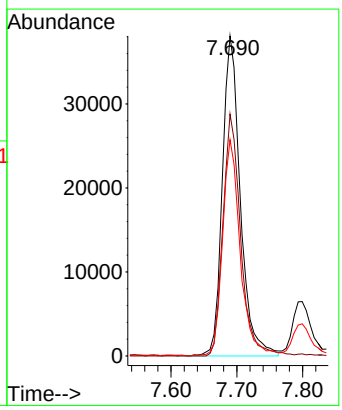


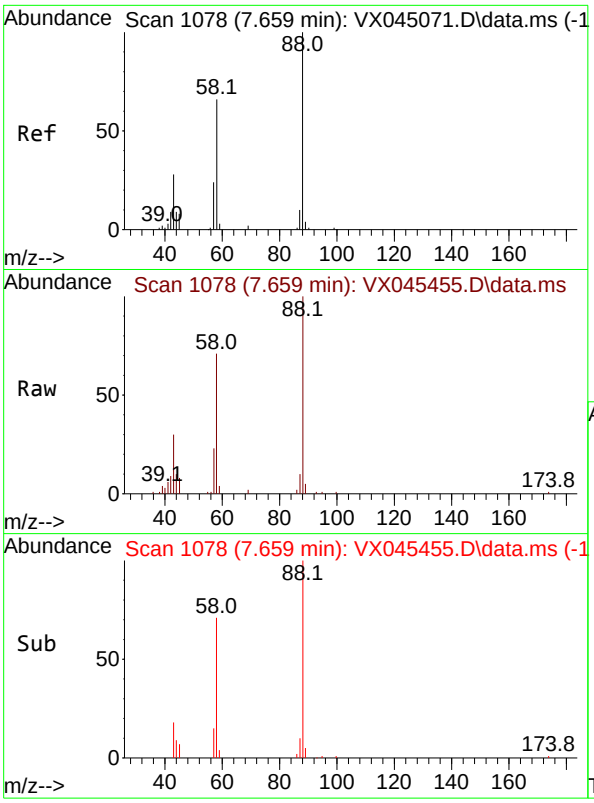


#48
Methyl methacrylate
Concen: 61.434 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 41 Resp: 72446

Ion	Ratio	Lower	Upper
41	100		
69	74.5	63.0	94.6
39	66.8	47.5	71.3



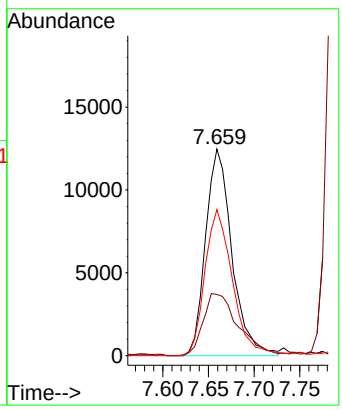


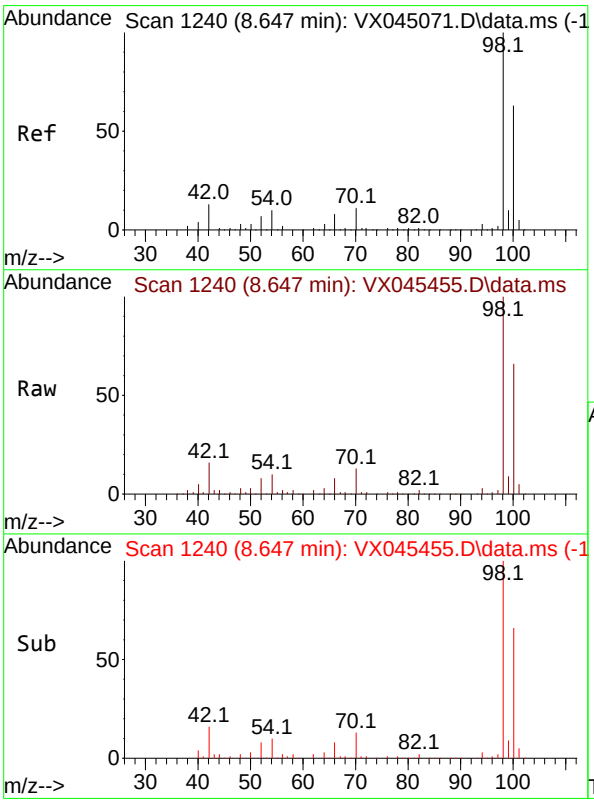
#49
1,4-Dioxane
Concen: 1006.555 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 25038

Ion	Ratio	Lower	Upper
88	100		
43	40.3	28.7	43.1
58	73.9	55.8	83.8

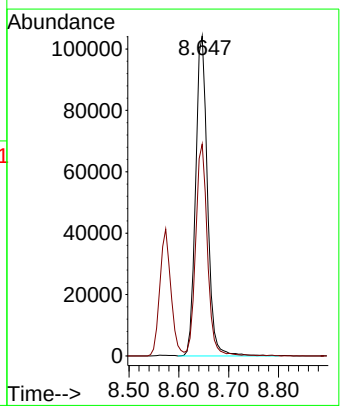


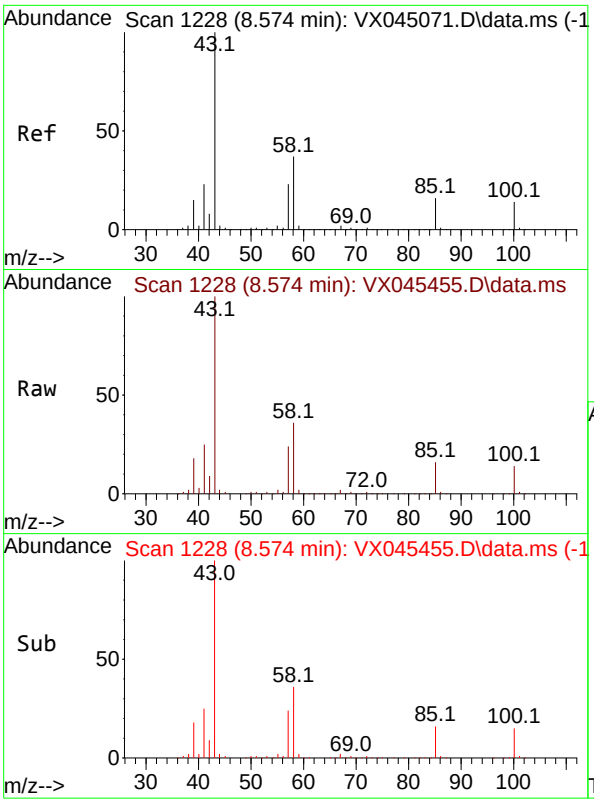


#50
Toluene-d8
Concen: 52.766 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 98 Resp: 172074

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.0	78.0



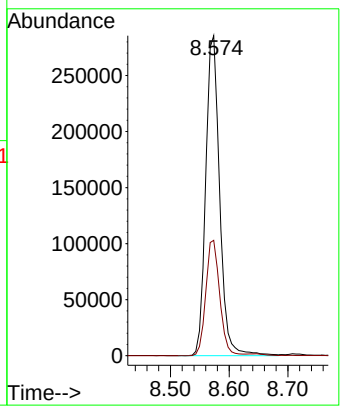


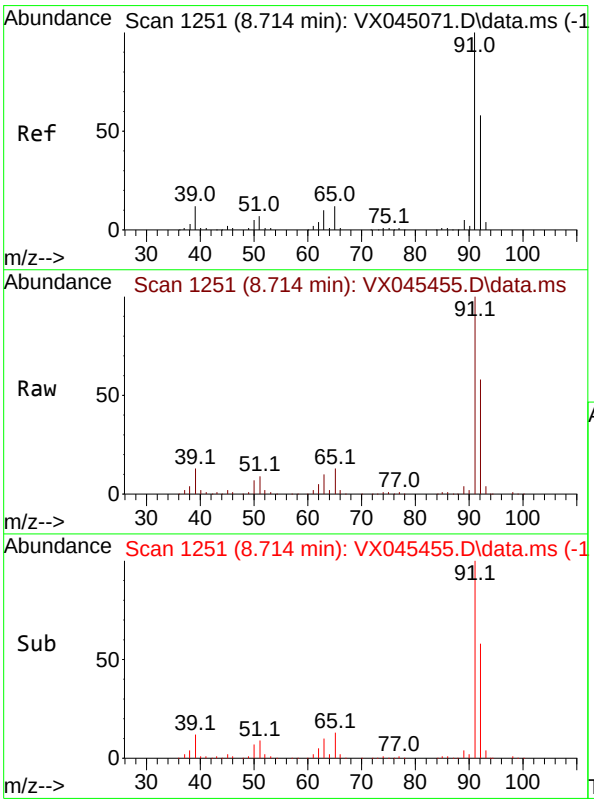
#51
4-Methyl-2-Pentanone
Concen: 298.691 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 471412

Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.2	43.8

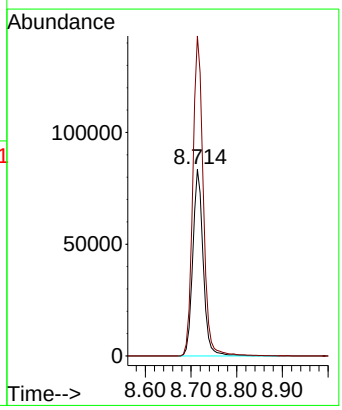


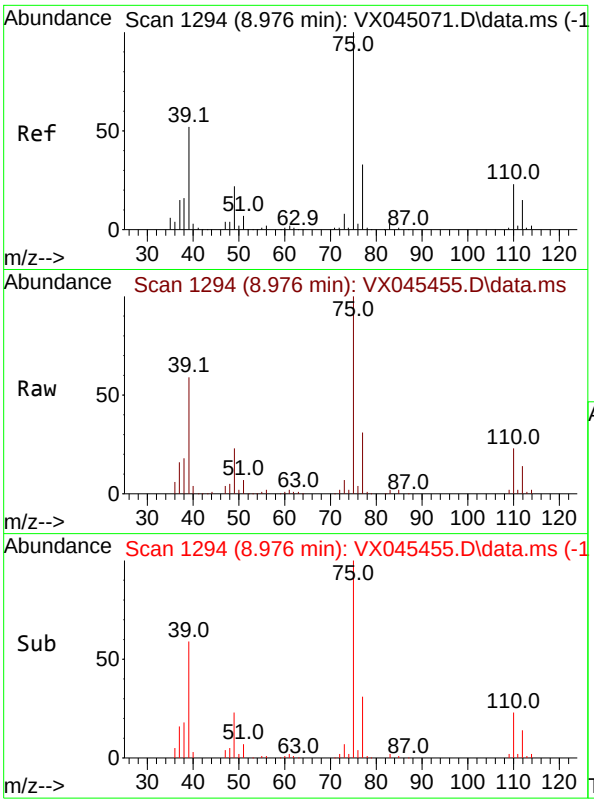


#52
Toluene
Concen: 57.535 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 92 Resp: 131498

Ion	Ratio	Lower	Upper
92	100		
91	173.4	138.9	208.3



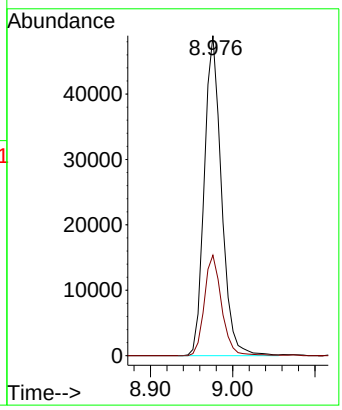


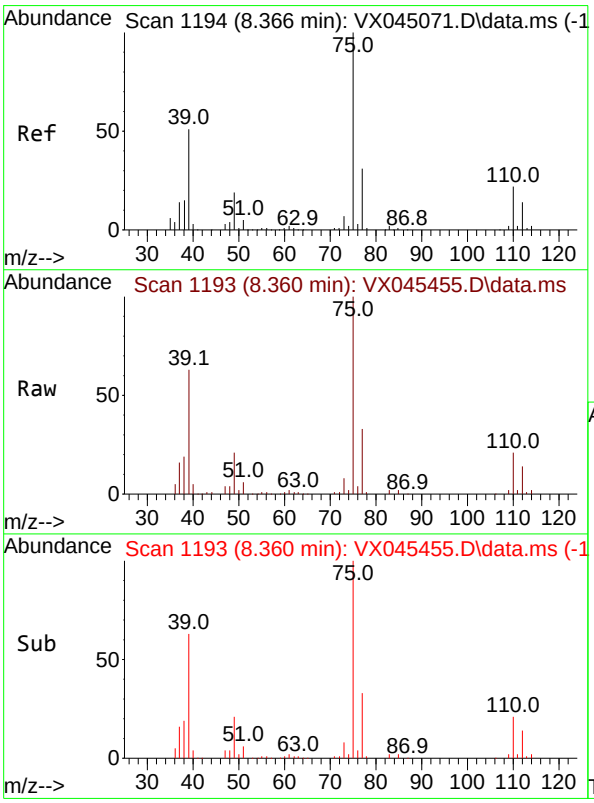
#53
t-1,3-Dichloropropene
Concen: 61.389 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 71263

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.5	39.7

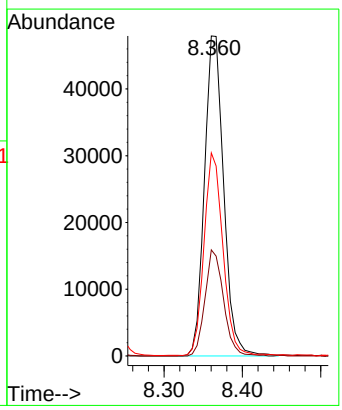


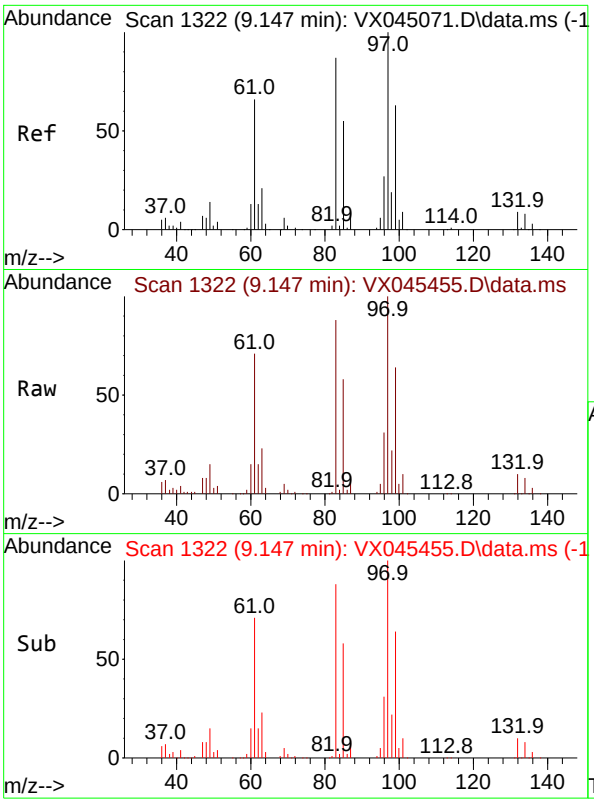


#54
cis-1,3-Dichloropropene
Concen: 60.428 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 81798

Ion	Ratio	Lower	Upper
75	100		
77	33.2	24.7	37.1
39	63.3	40.7	61.1#



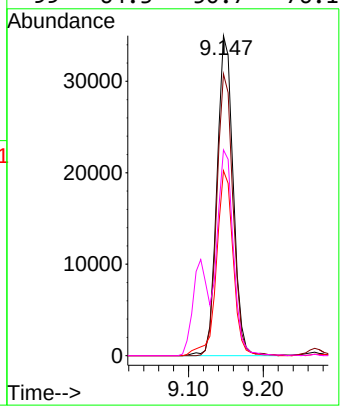


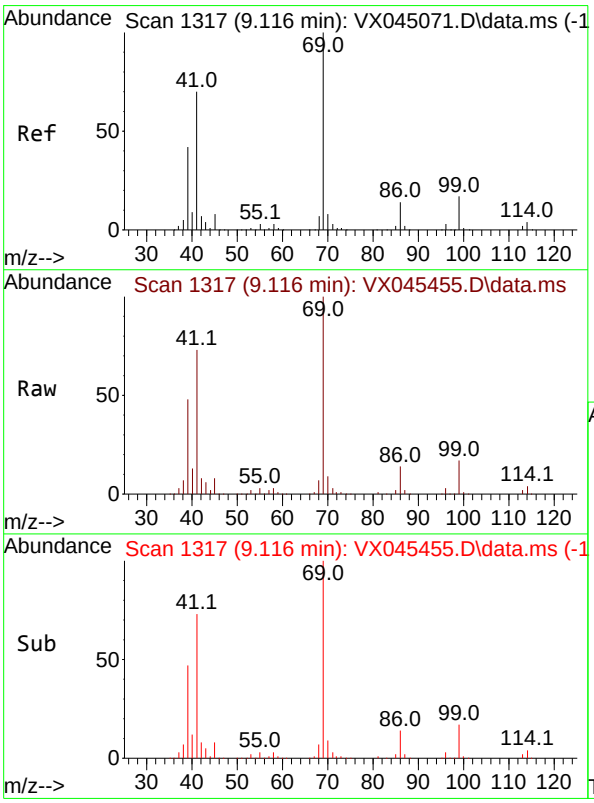
#55
1,1,2-Trichloroethane
Concen: 55.917 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 52613

Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.4	104.2
85	57.8	44.1	66.1
99	64.3	50.7	76.1

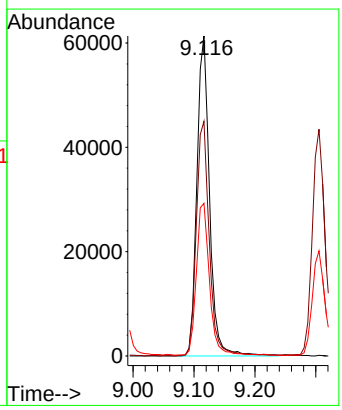


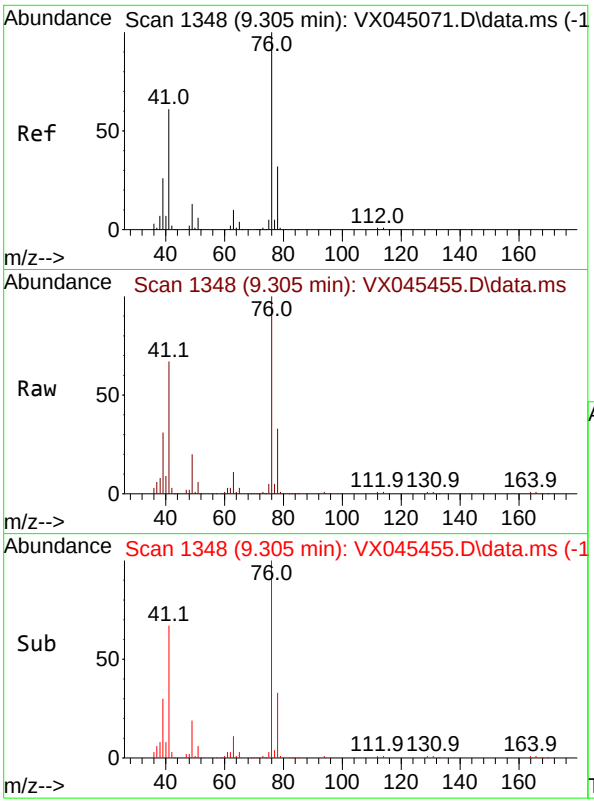


#56
Ethyl methacrylate
Concen: 61.863 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 69 Resp: 88478

Ion	Ratio	Lower	Upper
69	100		
41	75.7	57.0	85.4
39	48.8	34.2	51.4



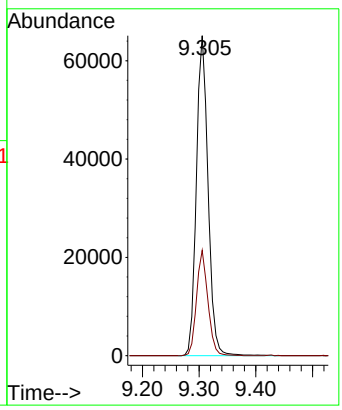


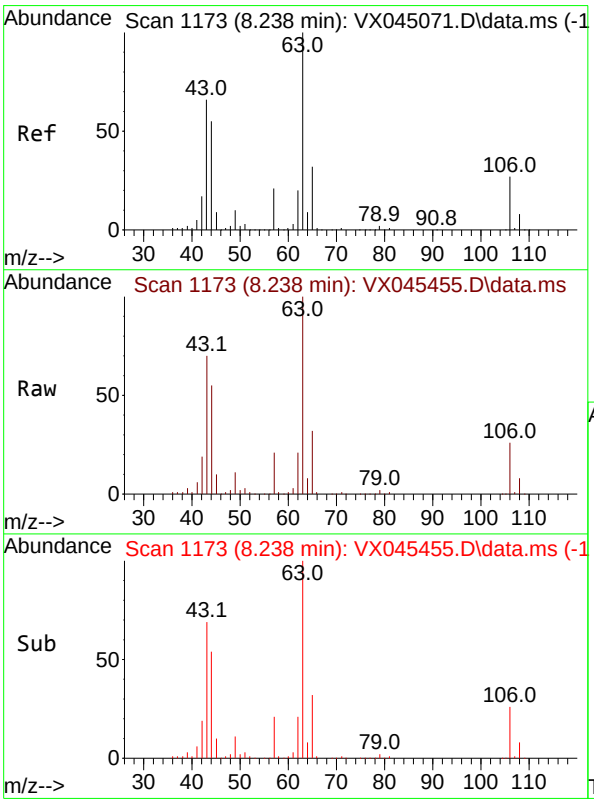
#57
1,3-Dichloropropane
Concen: 57.147 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 93052

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

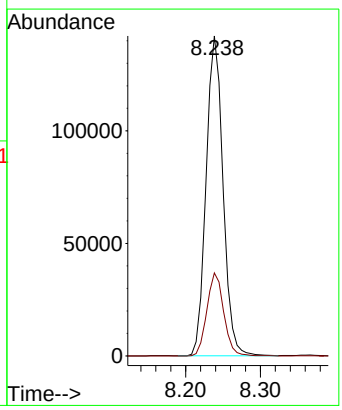


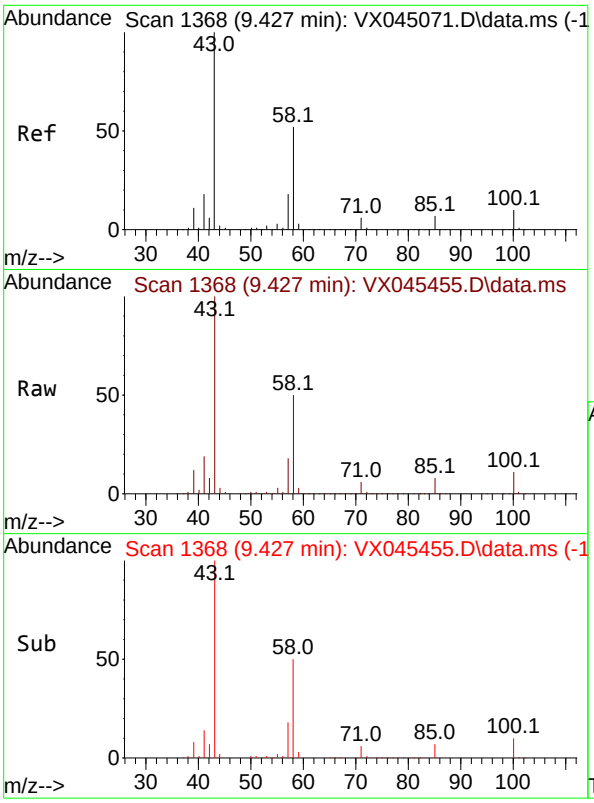


#58
2-Chloroethyl Vinyl ether
Concen: 320.494 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 63 Resp: 223602

Ion	Ratio	Lower	Upper
63	100		
106	25.9	21.5	32.3



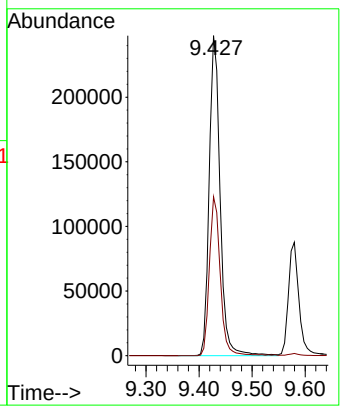


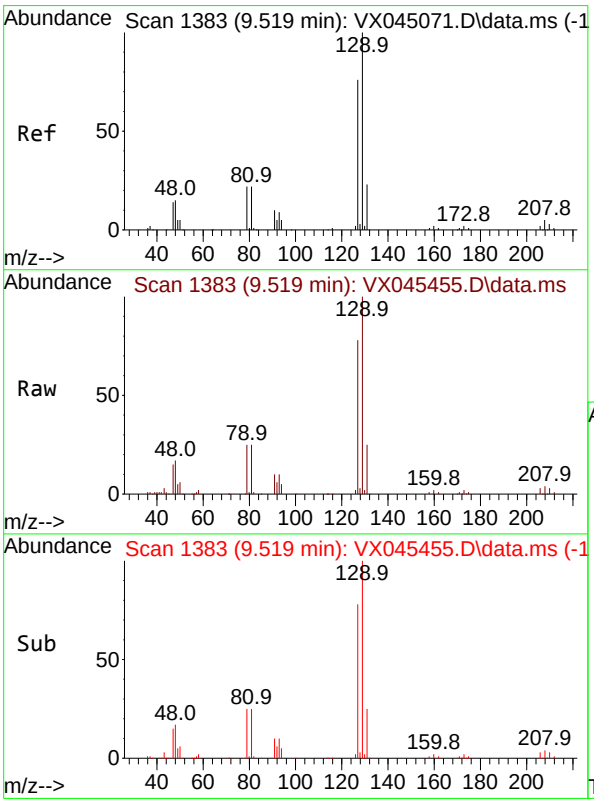
#59
2-Hexanone
Concen: 308.540 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 352820

Ion	Ratio	Lower	Upper
43	100		
58	49.8	25.9	77.6

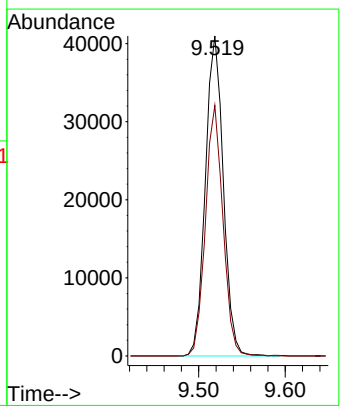


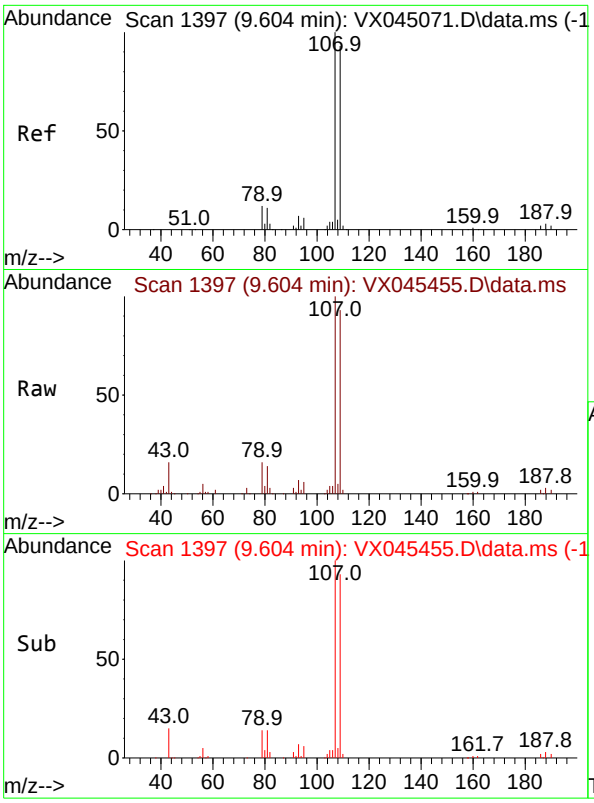


#60
Dibromochloromethane
Concen: 59.912 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:129 Resp: 58941

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.5	115.5



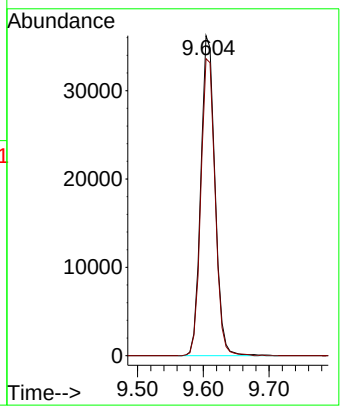


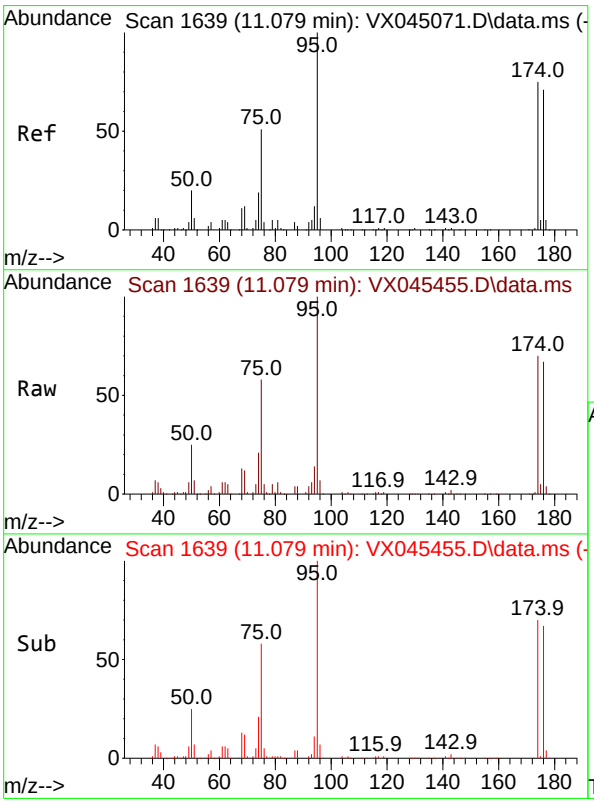
#61
1,2-Dibromoethane
Concen: 57.791 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 54283

Ion	Ratio	Lower	Upper
107	100		
109	93.6	76.1	114.1

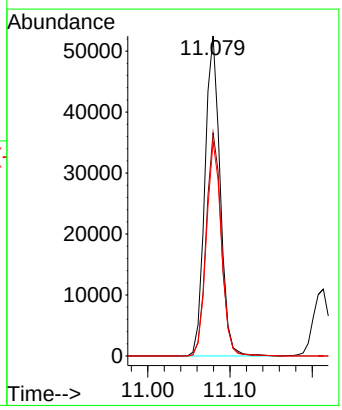


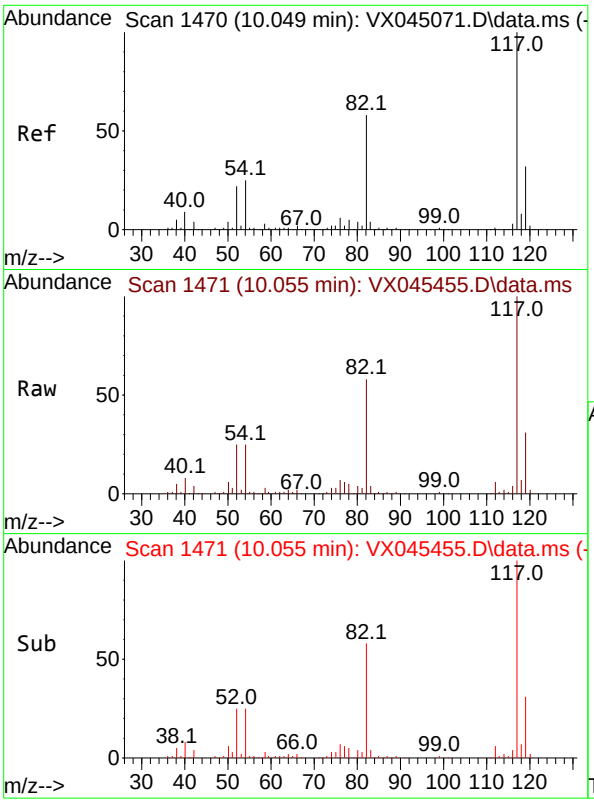


#62
4-Bromofluorobenzene
Concen: 62.340 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 95 Resp: 67367

Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	148.2
176	66.2	0.0	141.4



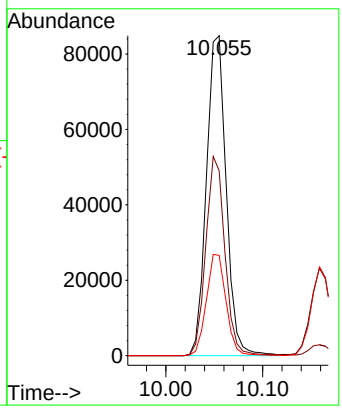


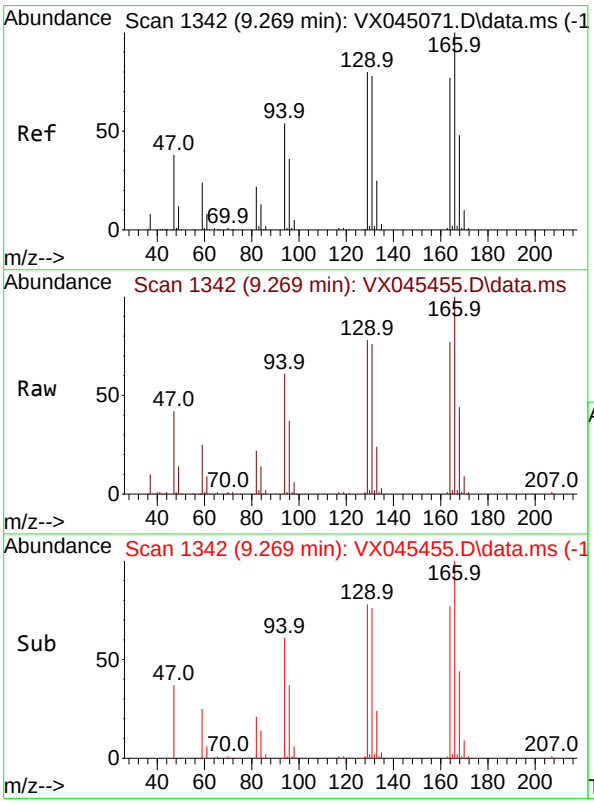
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 120753

Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.3	69.5
119	31.4	25.7	38.5

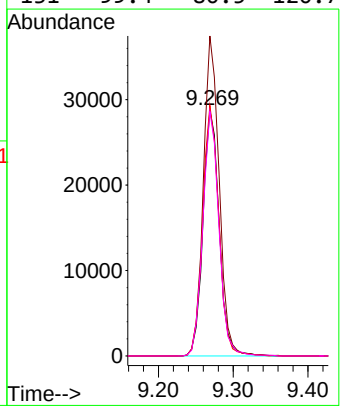


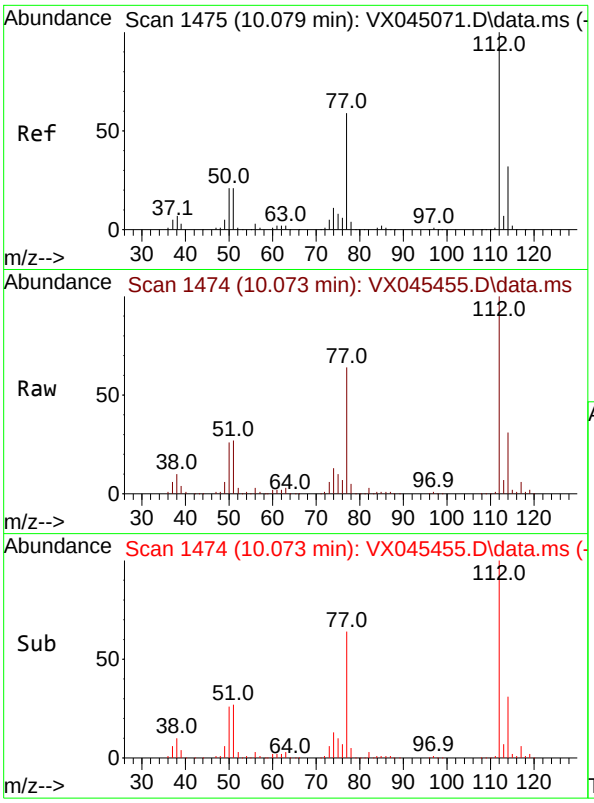


#64
Tetrachloroethene
Concen: 56.012 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:164 Resp: 43318

Ion	Ratio	Lower	Upper
164	100		
166	130.0	103.6	155.4
129	101.8	82.7	124.1
131	99.4	80.5	120.7



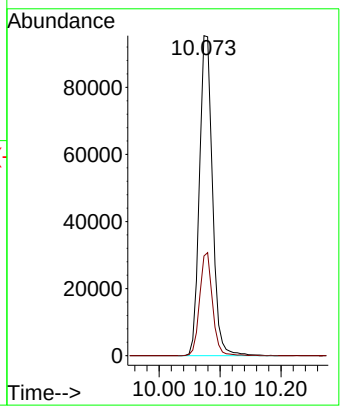


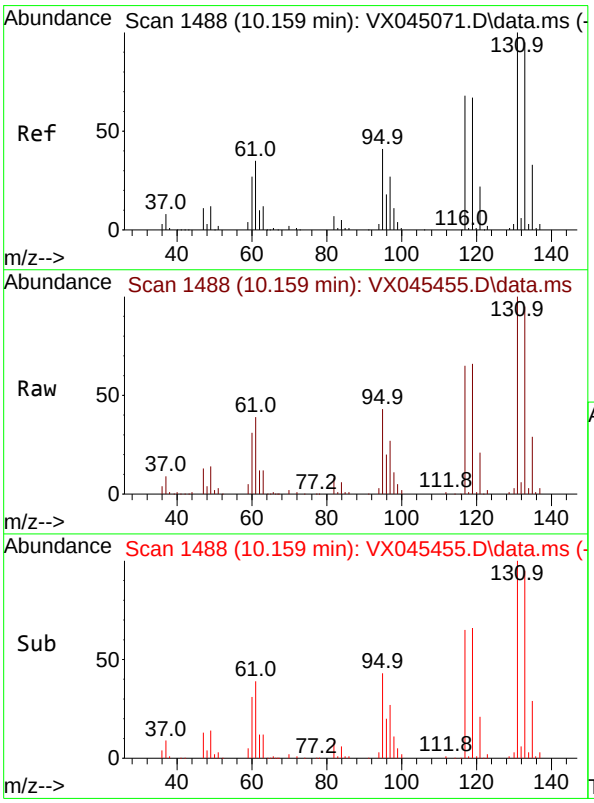
#65
Chlorobenzene
Concen: 55.448 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 141675

Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.0	39.0

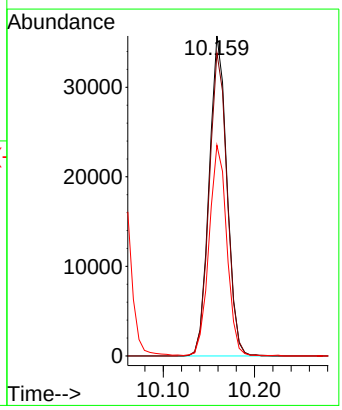


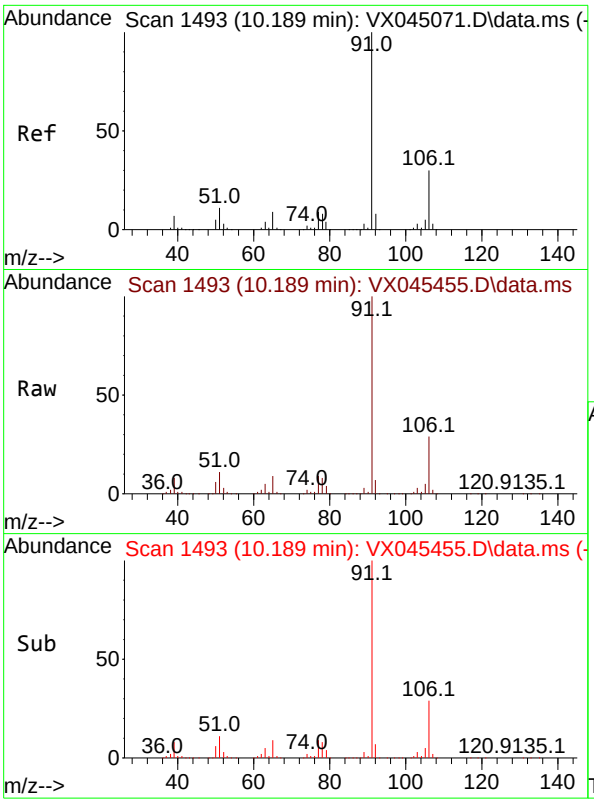


#66
1,1,1,2-Tetrachloroethane
Concen: 56.581 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:131 Resp: 48145

Ion	Ratio	Lower	Upper
131	100		
133	95.6	48.6	145.9
119	66.0	33.9	101.7



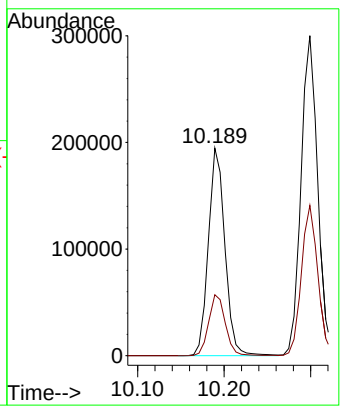


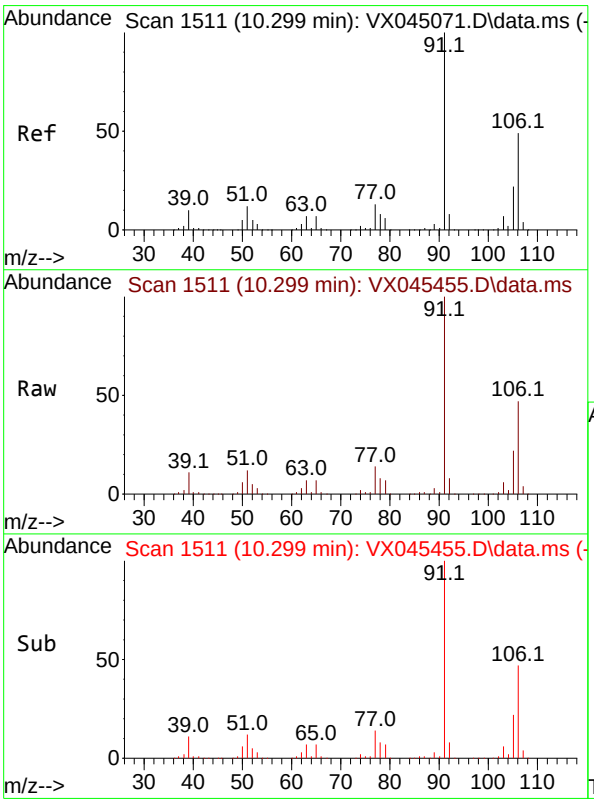
#67
Ethyl Benzene
Concen: 58.029 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 258353

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.9	35.9

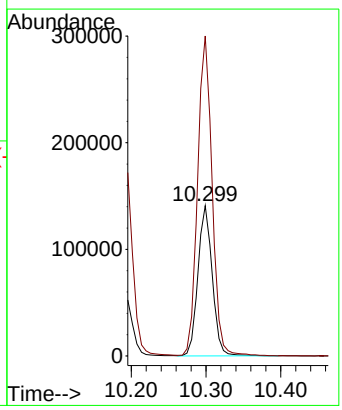


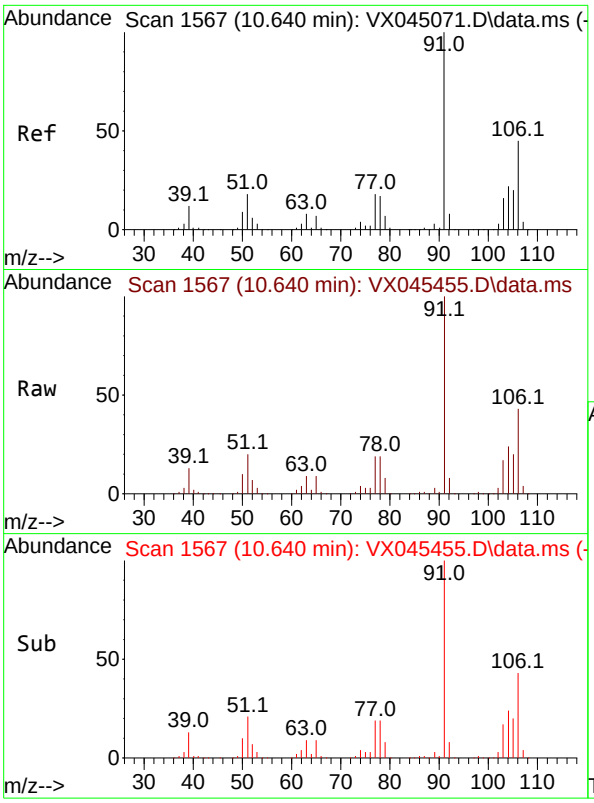


#68
m/p-Xylenes
Concen: 114.904 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:106 Resp: 187271

Ion	Ratio	Lower	Upper
106	100		
91	215.8	165.4	248.0



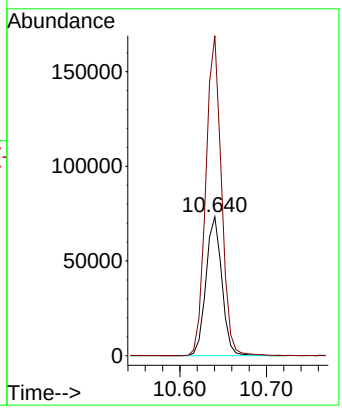


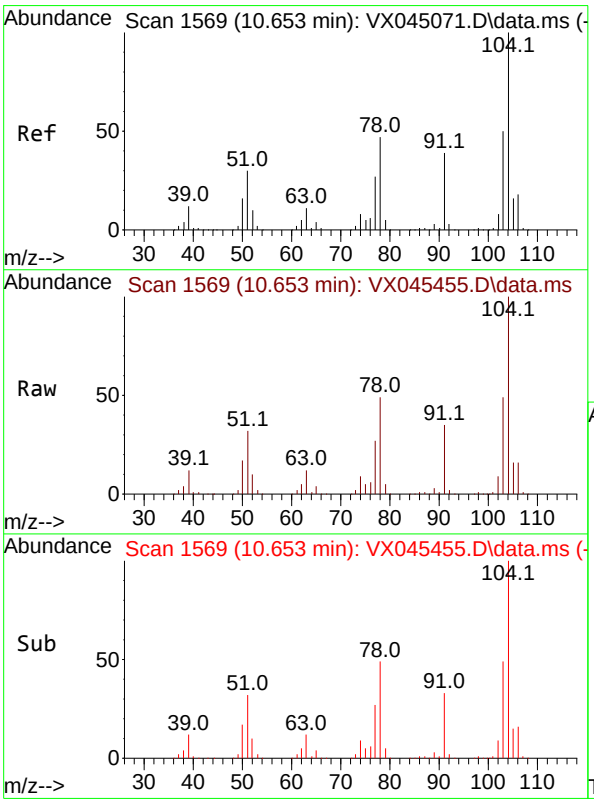
#69
o-Xylene
Concen: 56.852 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 93451

Ion	Ratio	Lower	Upper
106	100		
91	226.8	109.9	329.6

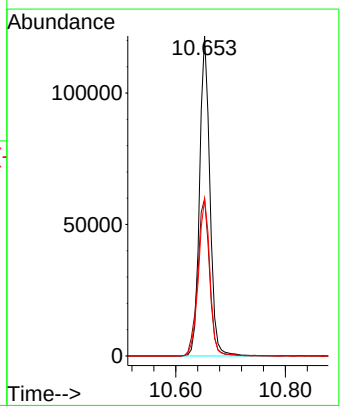


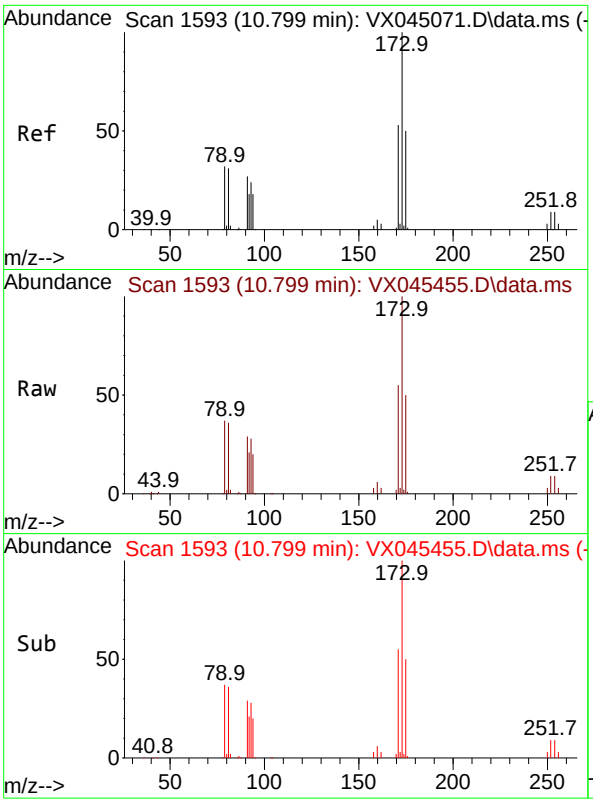


#70
Styrene
Concen: 59.715 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:104 Resp: 158826

Ion	Ratio	Lower	Upper
104	100		
78	56.8	42.2	63.4
103	54.8	43.8	65.8



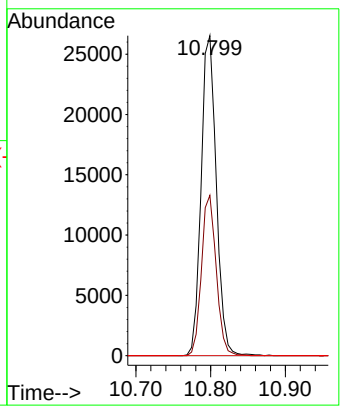


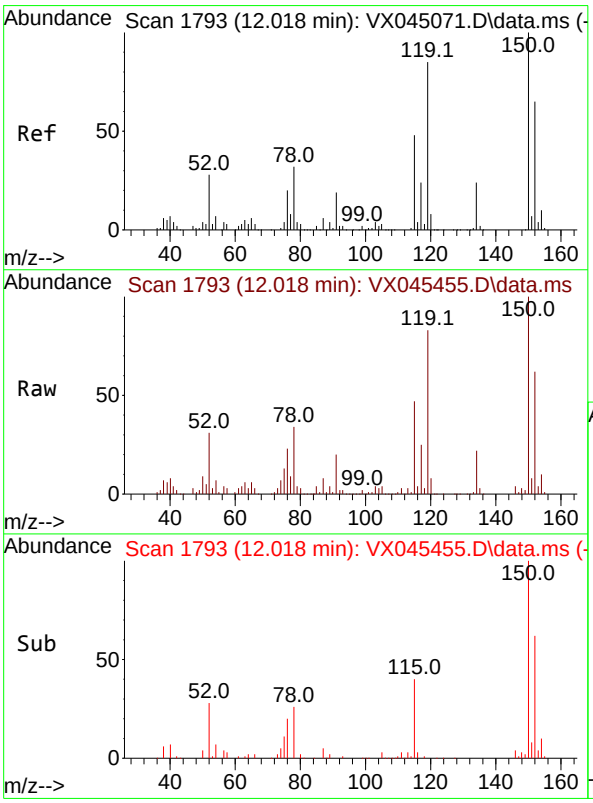
#71
Bromoform
Concen: 58.263 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 37385

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.6	73.6
254	0.0	0.0	0.0

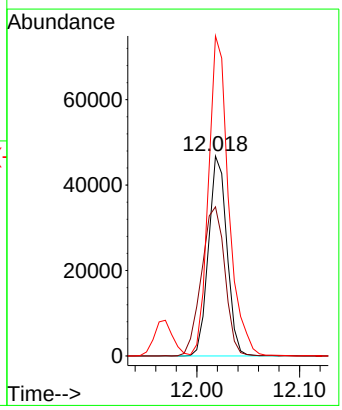


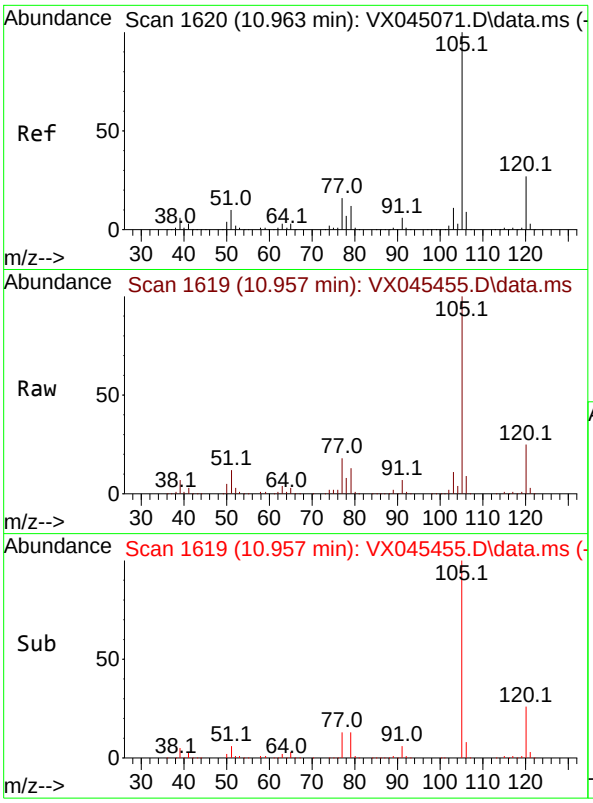


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:152 Resp: 57976

Ion	Ratio	Lower	Upper
152	100		
115	95.4	44.2	132.6
150	176.0	0.0	349.0



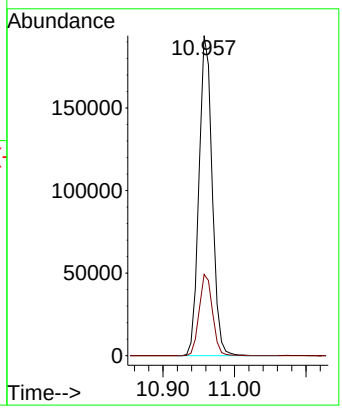


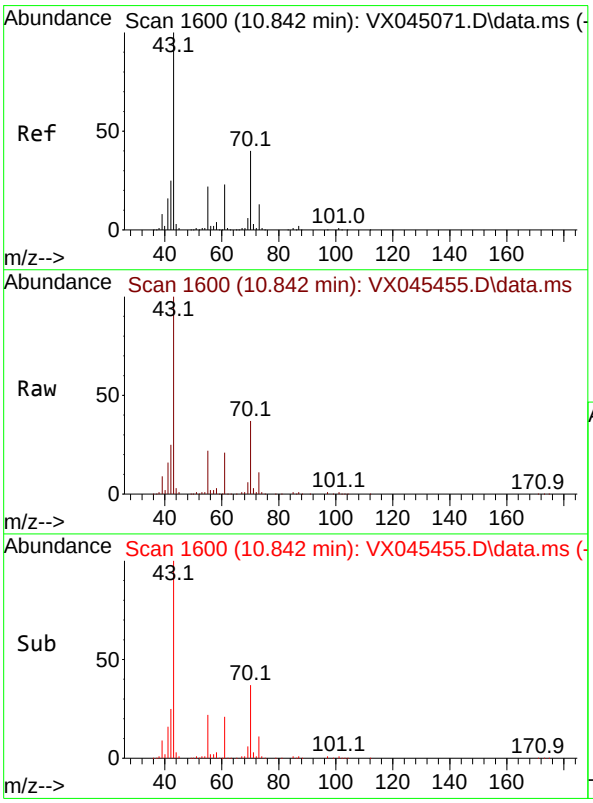
#73
Isopropylbenzene
Concen: 54.809 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 248021

Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.2	39.5

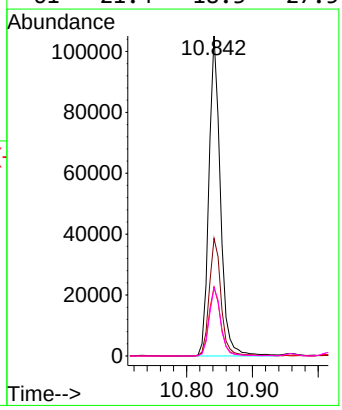


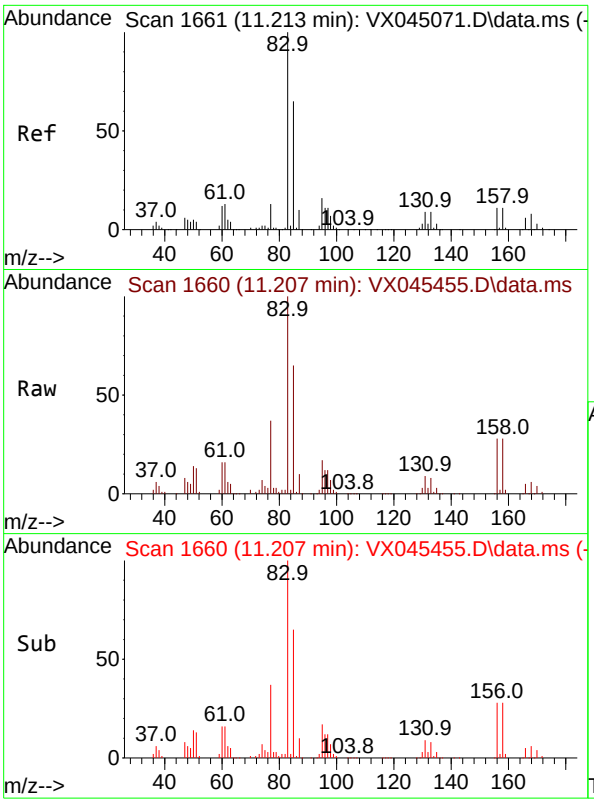


#74
N-amyl acetate
Concen: 60.199 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 43 Resp: 127825

Ion	Ratio	Lower	Upper
43	100		
70	37.9	31.8	47.6
55	22.3	18.3	27.5
61	21.4	18.3	27.5



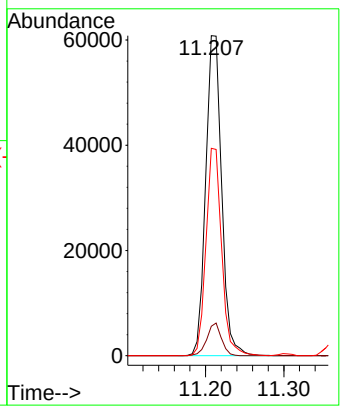


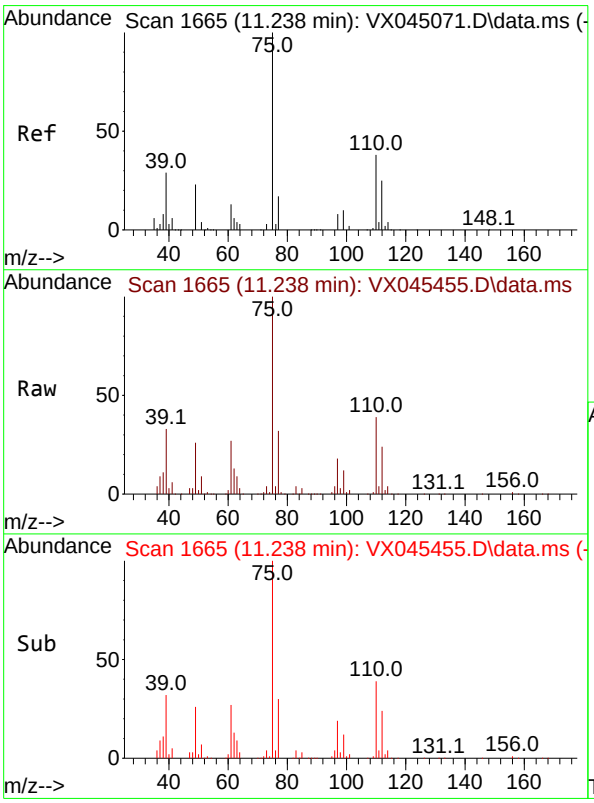
#75
1,1,2,2-Tetrachloroethane
Concen: 51.622 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 85723

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.4
85	63.5	31.7	95.1

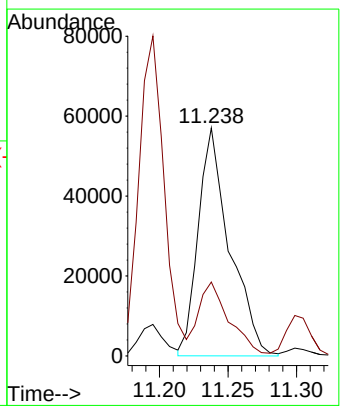


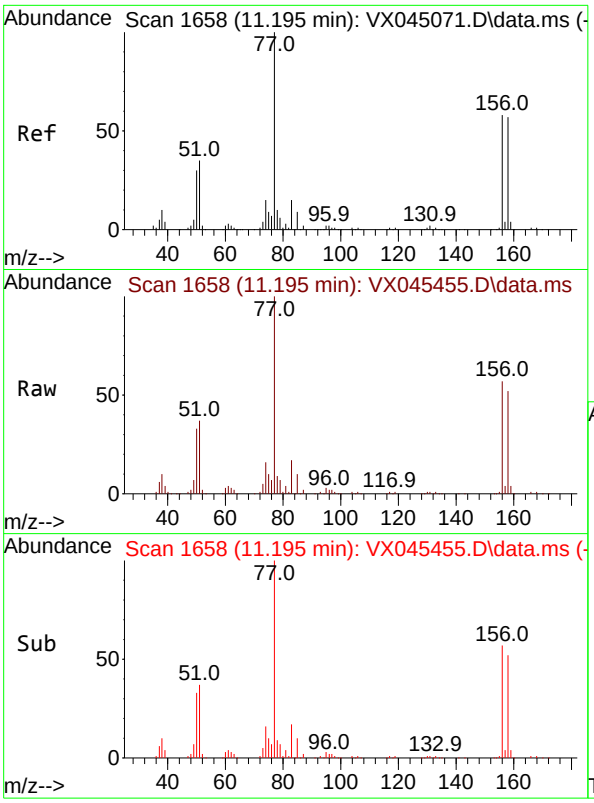


#76
1,2,3-Trichloropropane
Concen: 67.714 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 91373

Ion	Ratio	Lower	Upper
75	100		
77	31.8	20.7	62.1



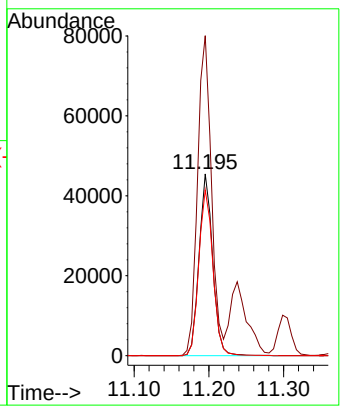


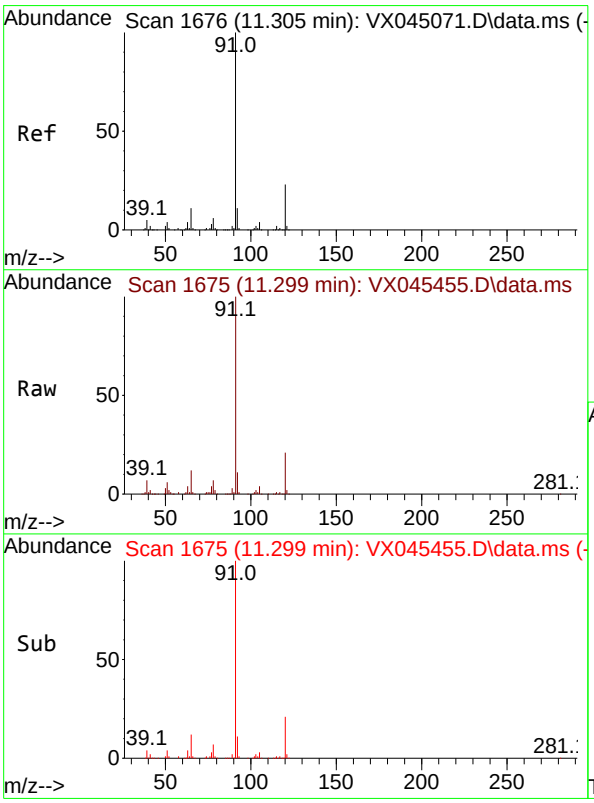
#77
Bromobenzene
Concen: 53.713 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 57349

Ion	Ratio	Lower	Upper
156	100		
77	179.8	85.8	257.4
158	95.2	48.4	145.2

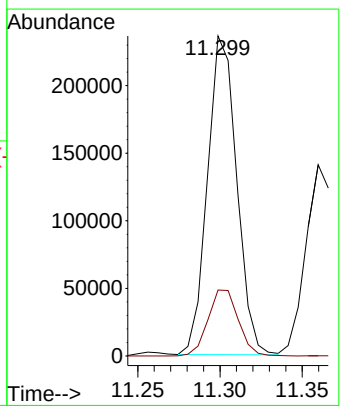


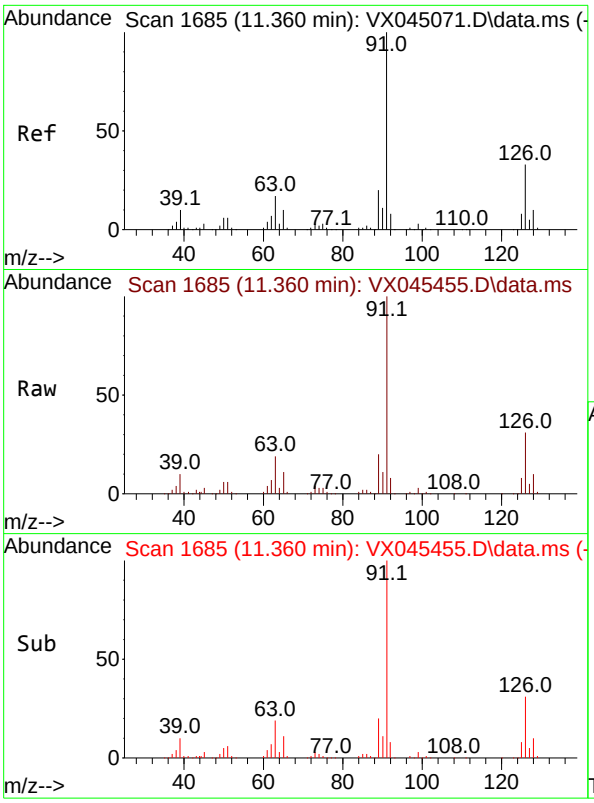


#78
n-propylbenzene
Concen: 57.086 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 91 Resp: 291813

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.2	33.6



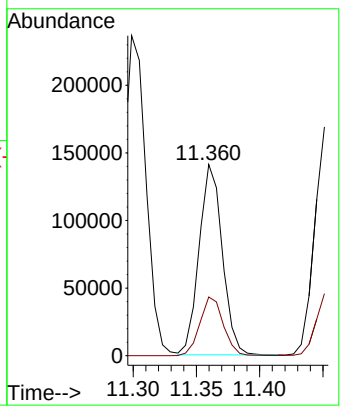


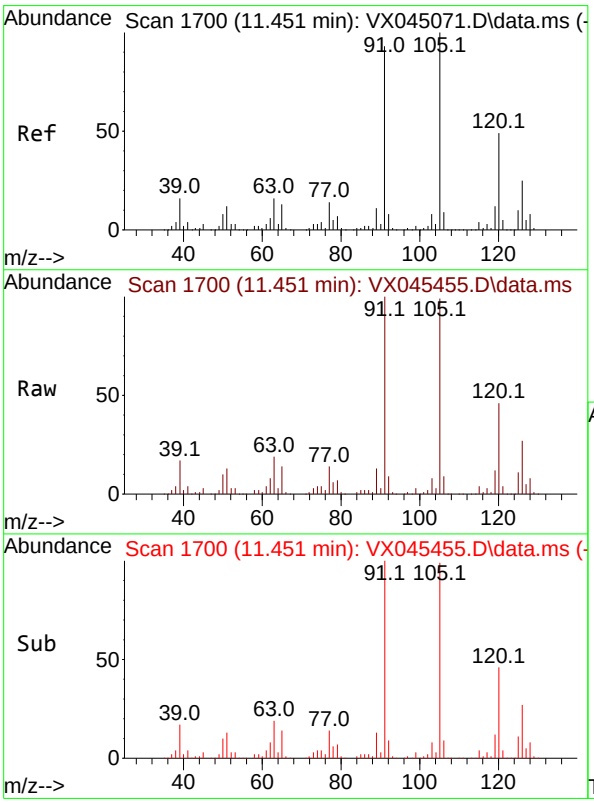
#79
2-Chlorotoluene
Concen: 55.315 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 180078

Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.4	49.4

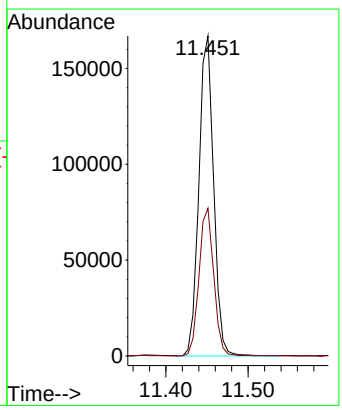


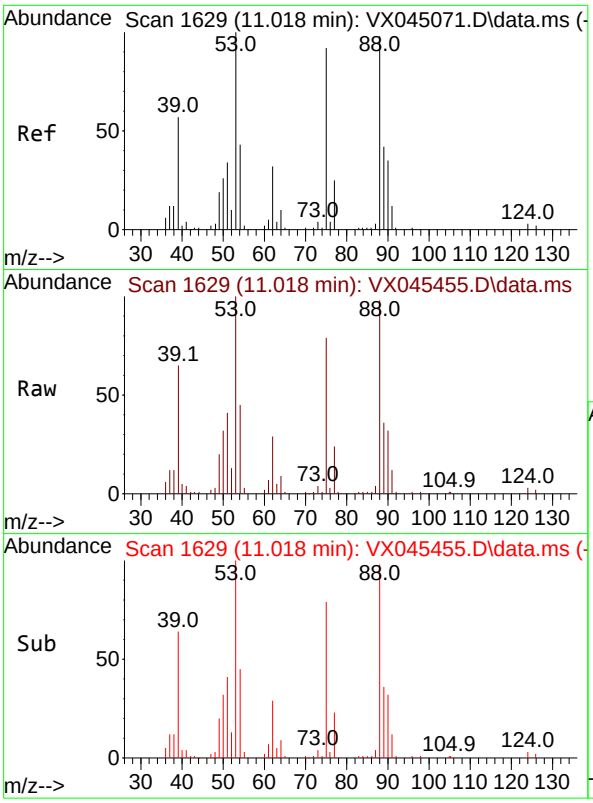


#80
1,3,5-Trimethylbenzene
Concen: 56.895 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:105 Resp: 208176

Ion	Ratio	Lower	Upper
105	100		
120	46.3	24.1	72.2



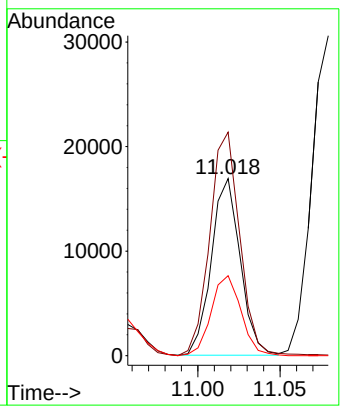


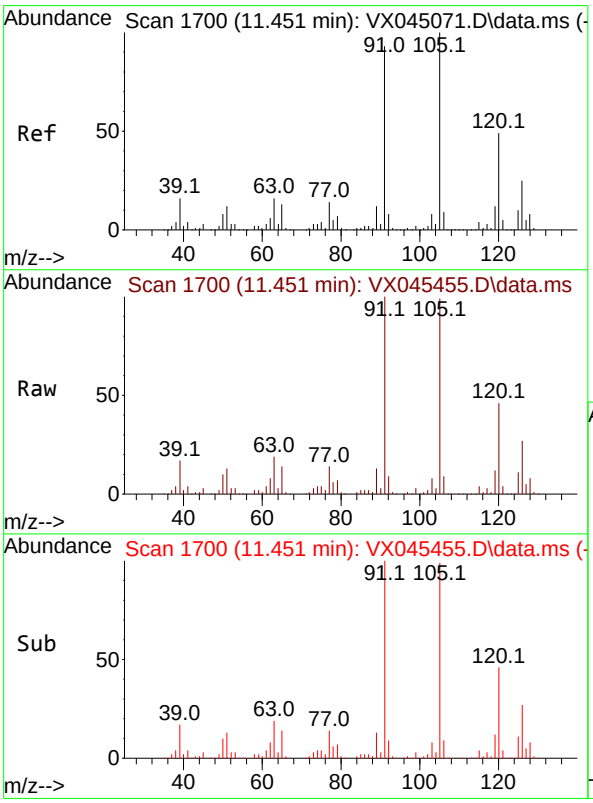
#81
trans-1,4-Dichloro-2-butene
Concen: 52.375 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 20652

Ion	Ratio	Lower	Upper
75	100		
53	131.6	88.5	132.7
89	46.8	36.2	54.4

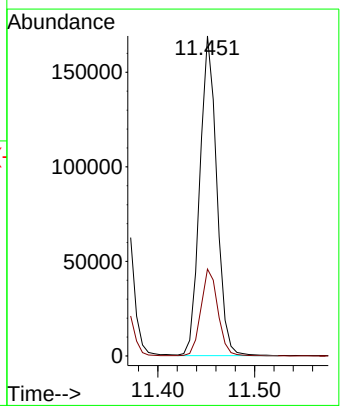


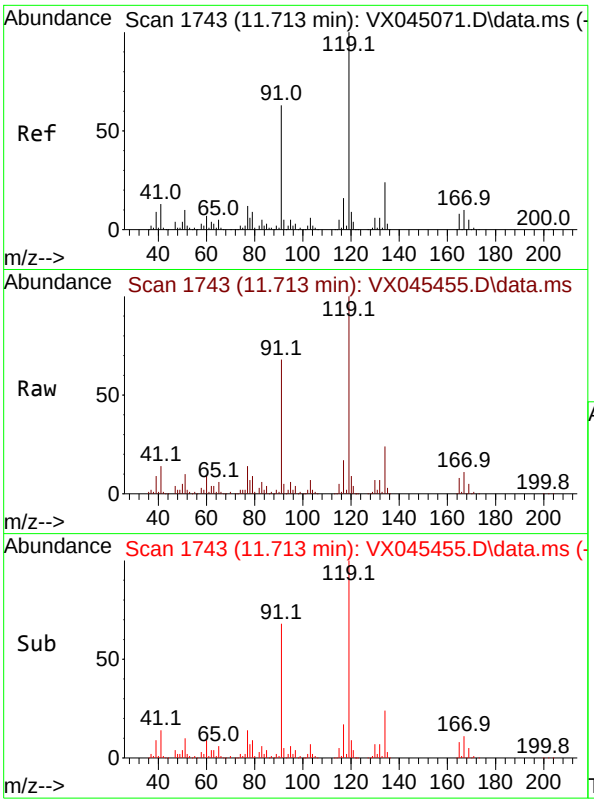


#82
4-Chlorotoluene
Concen: 58.131 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 91 Resp: 206254

Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.1	42.4



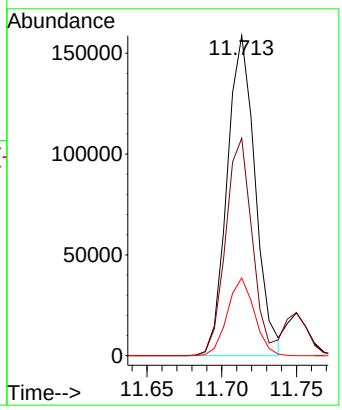


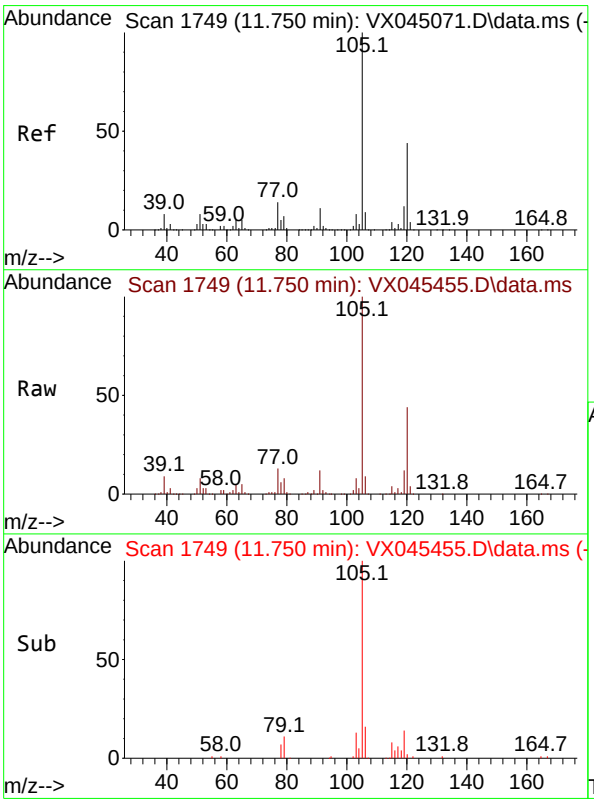
#83
tert-Butylbenzene
Concen: 55.036 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 206906

Ion	Ratio	Lower	Upper
119	100		
91	63.9	30.7	92.1
134	23.3	11.7	35.0

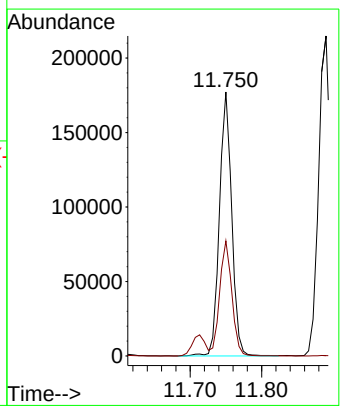


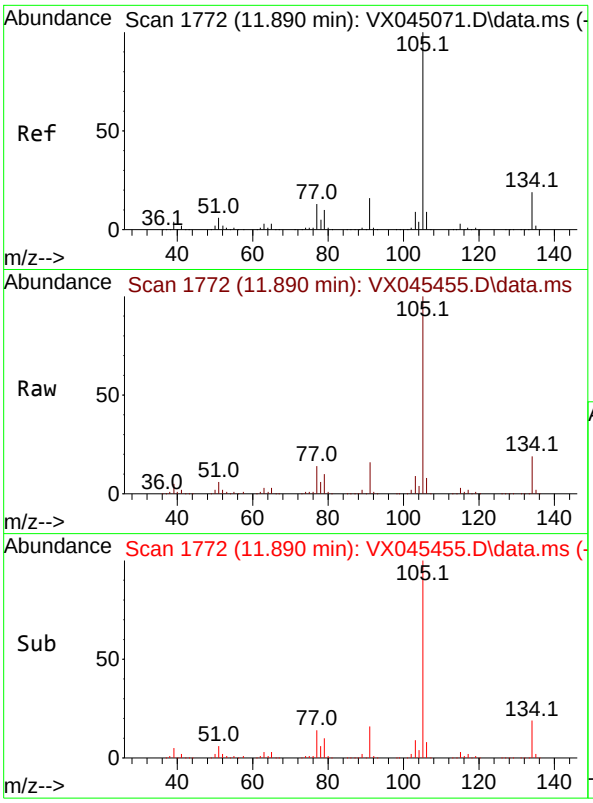


#84
1,2,4-Trimethylbenzene
Concen: 57.518 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:105 Resp: 211760

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1



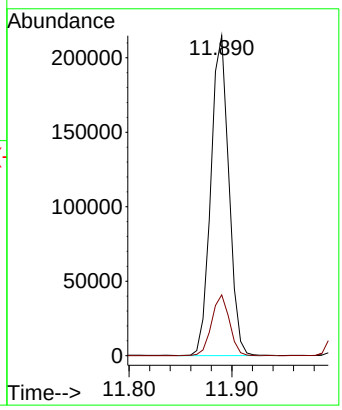


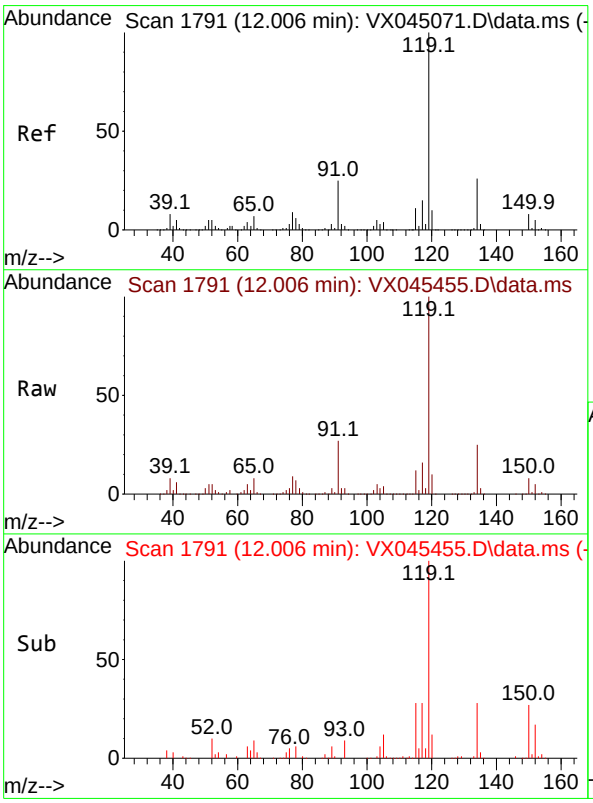
#85
sec-Butylbenzene
Concen: 57.851 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 260527

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.4

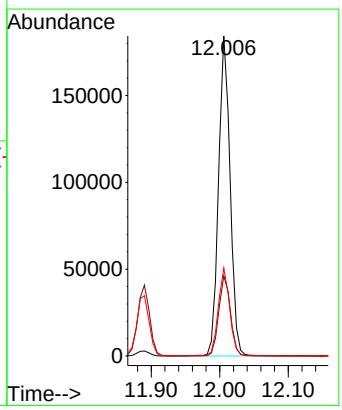


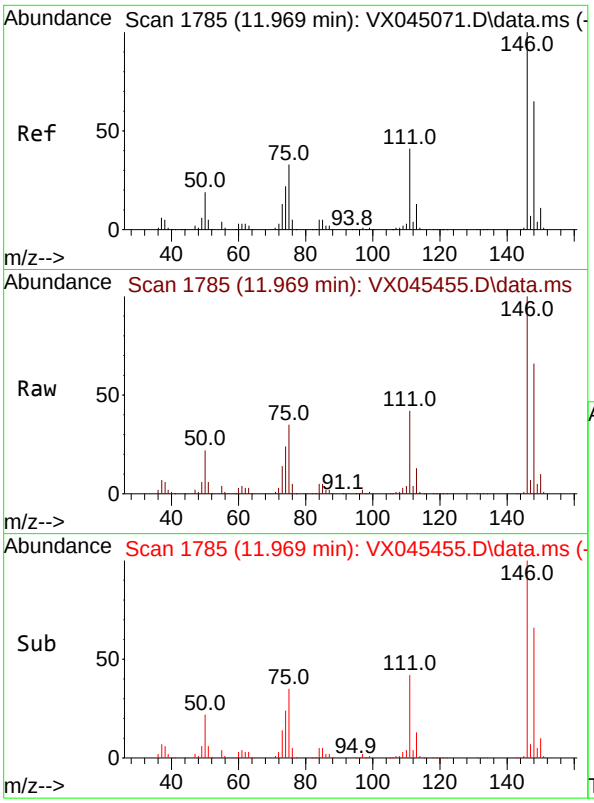


#86
p-Isopropyltoluene
Concen: 58.914 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:119 Resp: 214411

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.9	38.6
91	27.1	12.7	38.0



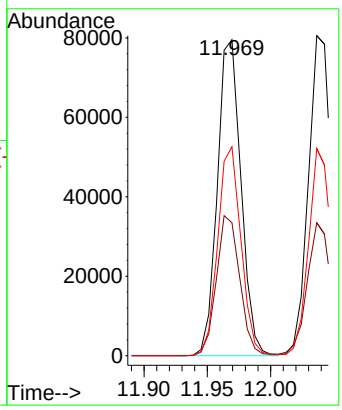


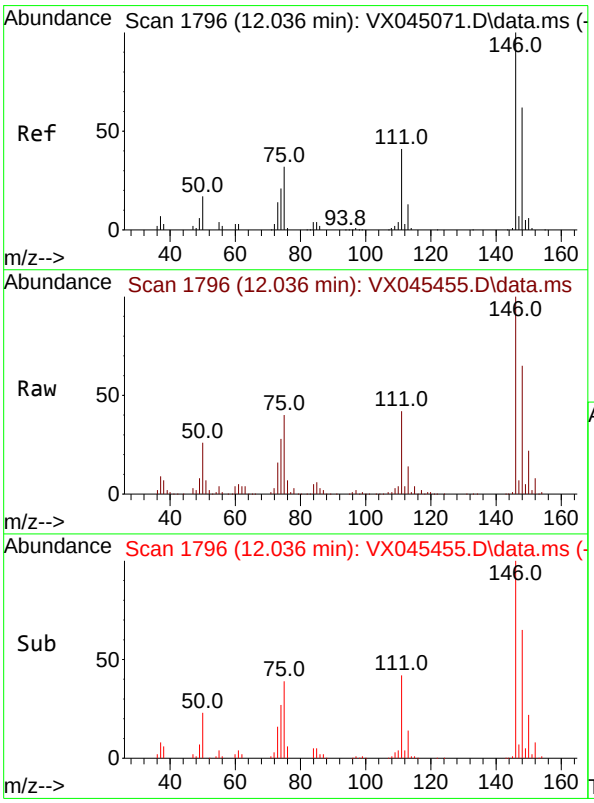
#87
1,3-Dichlorobenzene
Concen: 54.210 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 103254

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.1	63.4
148	65.0	31.9	95.7

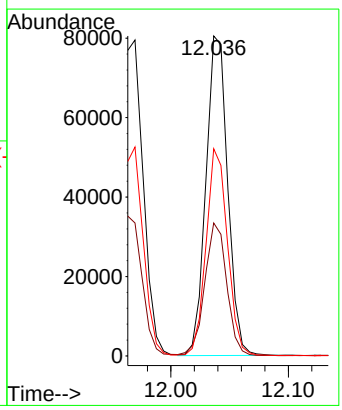


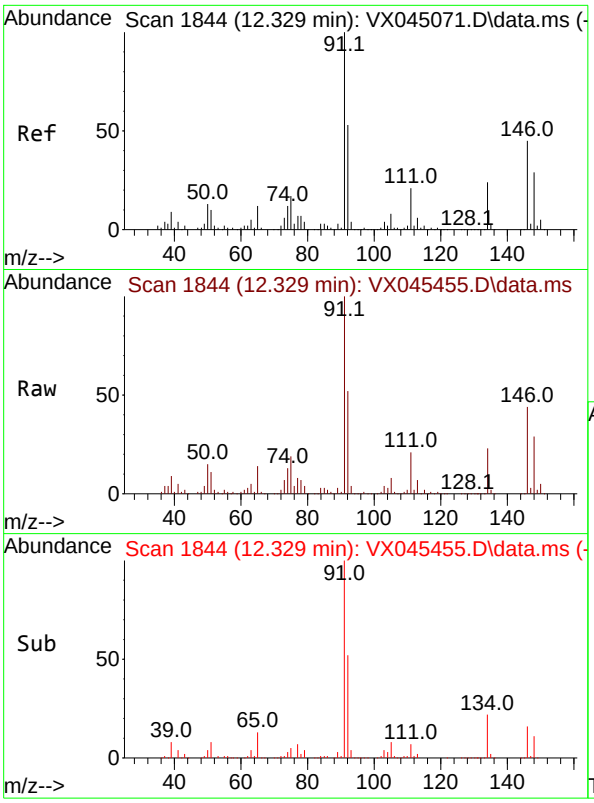


#88
1,4-Dichlorobenzene
Concen: 53.778 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:146 Resp: 103629

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.2	60.5
148	63.8	31.9	95.9



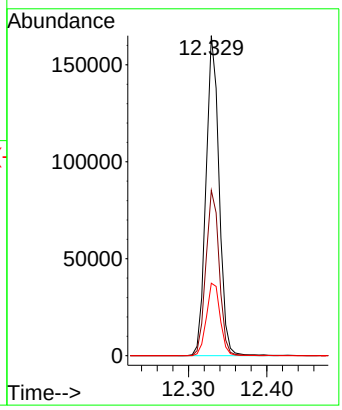


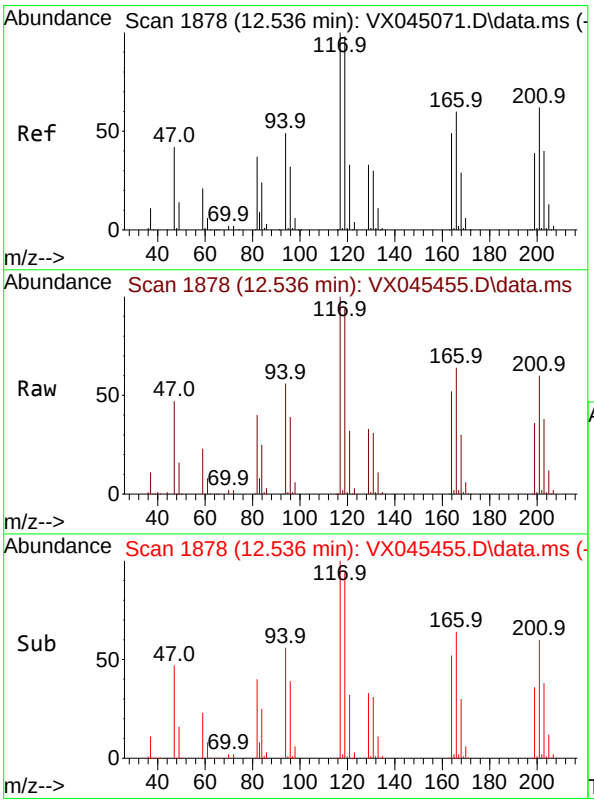
#89
n-Butylbenzene
Concen: 60.909 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 190918

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.7	80.0
134	23.7	12.2	36.6

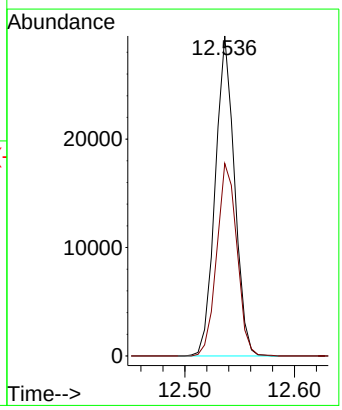


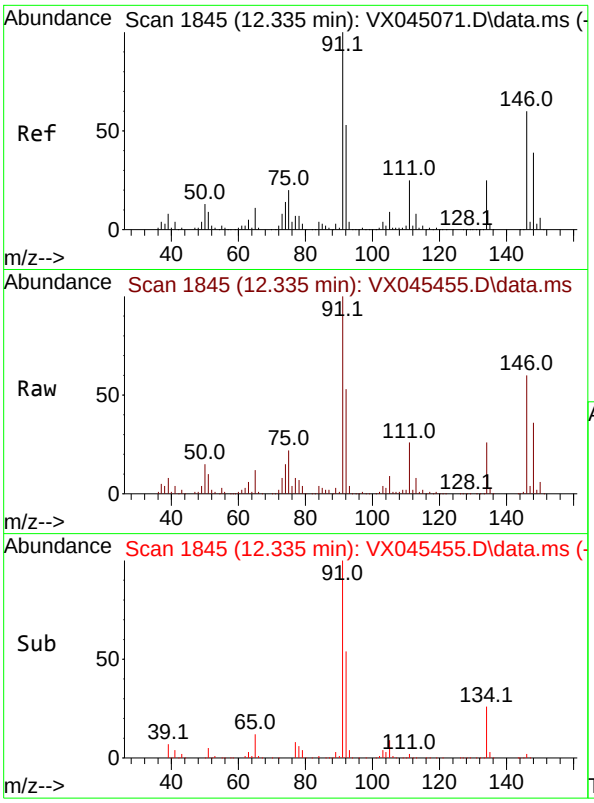


#90
Hexachloroethane
Concen: 54.843 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:117 Resp: 36102

Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.9	95.9



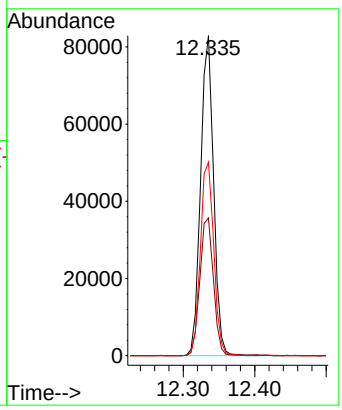


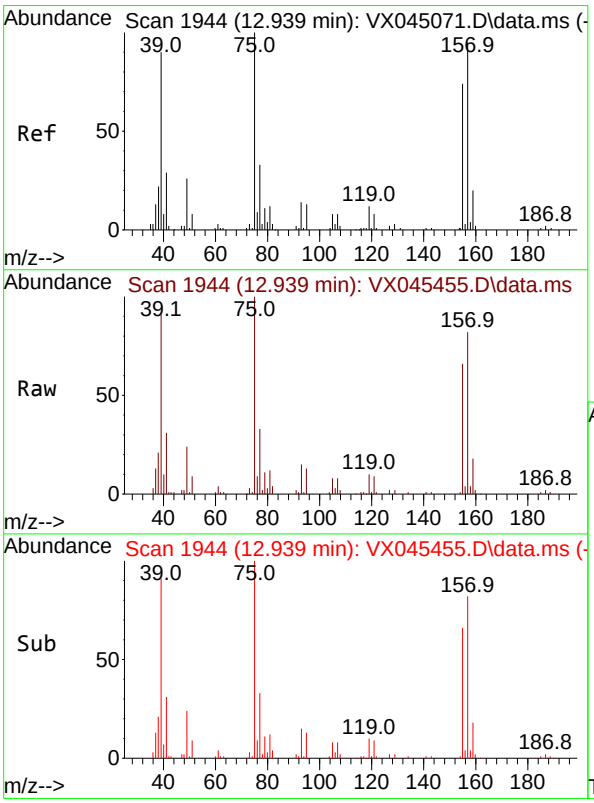
#91
1,2-Dichlorobenzene
Concen: 54.779 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 104665

Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.6	65.0
148	62.4	31.9	95.9

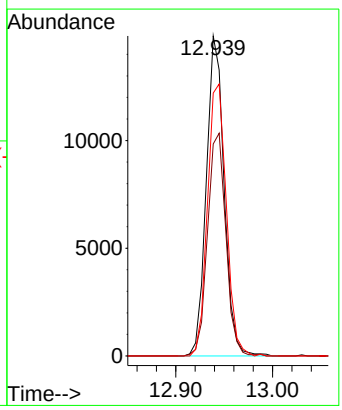


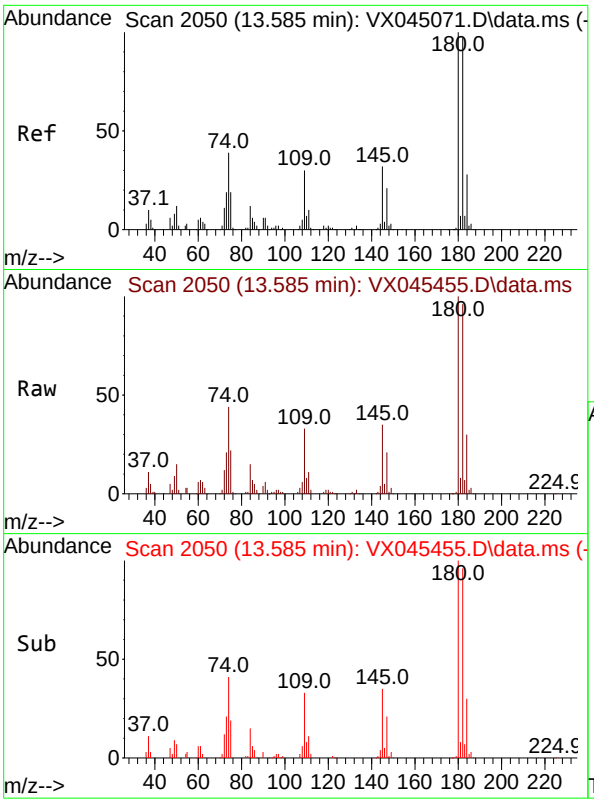


#92
1,2-Dibromo-3-Chloropropane
Concen: 58.867 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion: 75 Resp: 19044

Ion	Ratio	Lower	Upper
75	100		
155	71.5	39.6	118.7
157	89.8	51.1	153.4



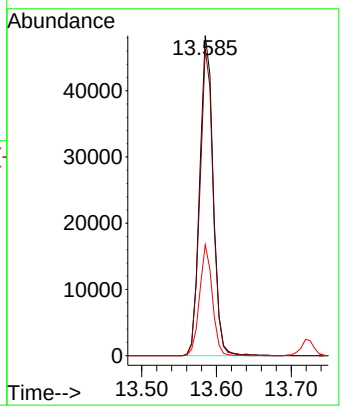


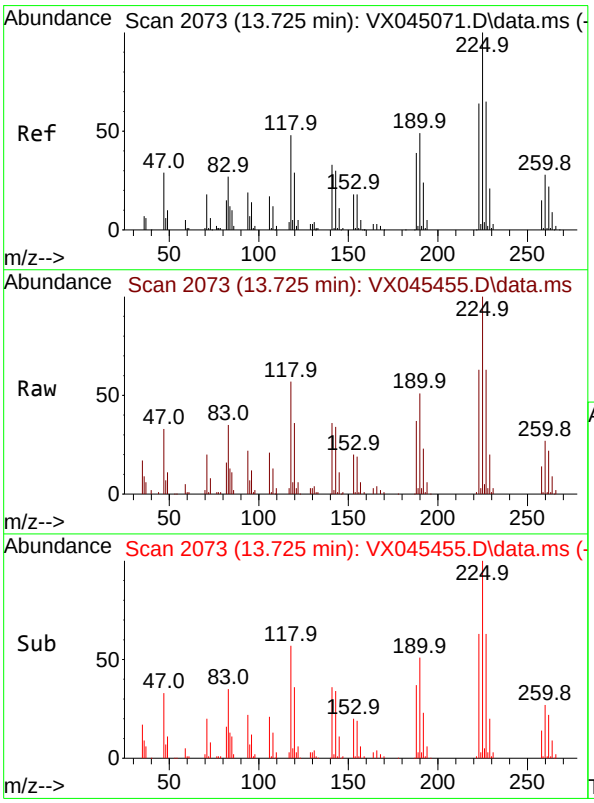
#93
1,2,4-Trichlorobenzene
Concen: 55.384 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 60255

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.9
145	32.8	16.3	48.9

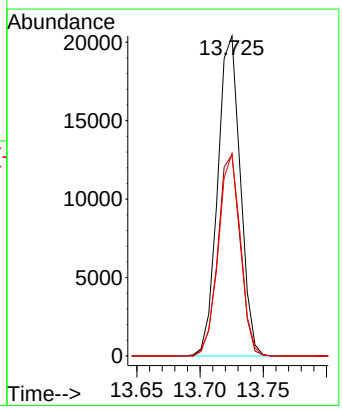


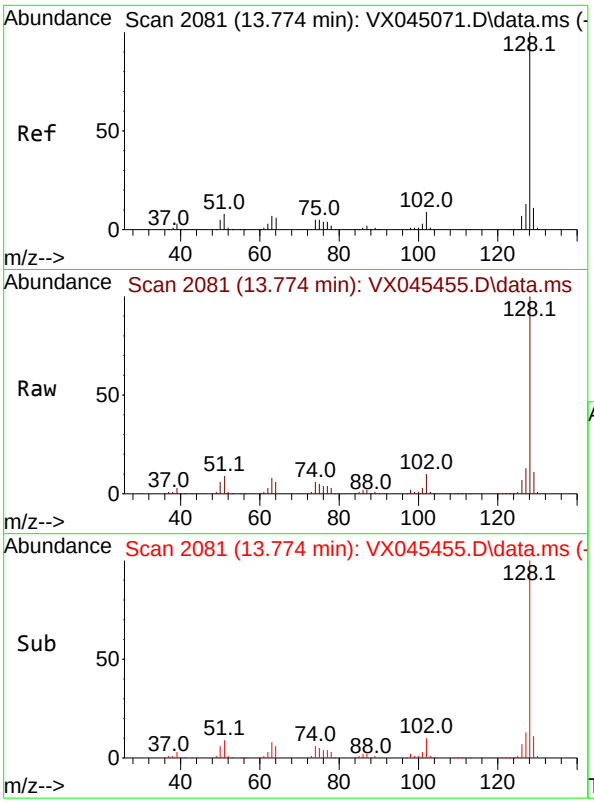


#94
Hexachlorobutadiene
Concen: 56.726 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:225 Resp: 25302

Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.9	95.7
227	61.9	31.4	94.0



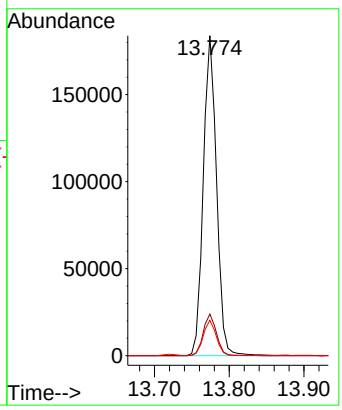


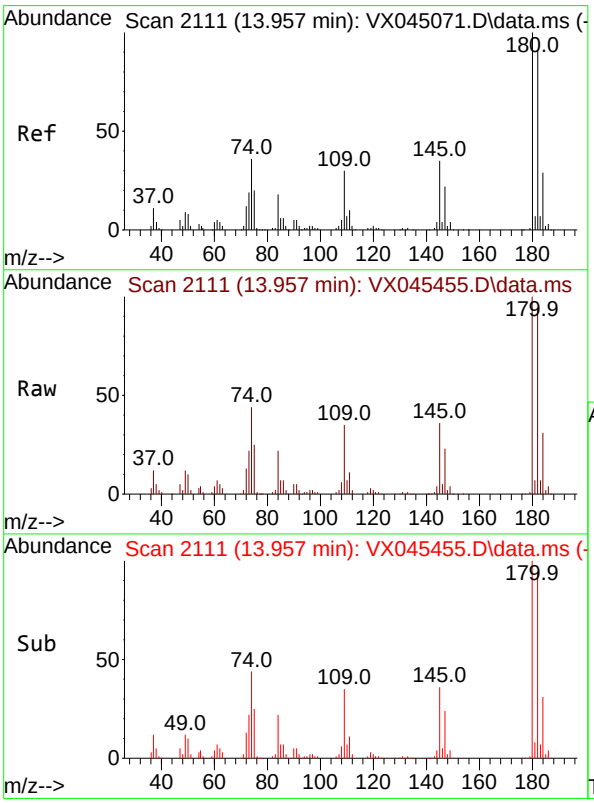
#95
Naphthalene
Concen: 54.121 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 226227

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.7	13.1

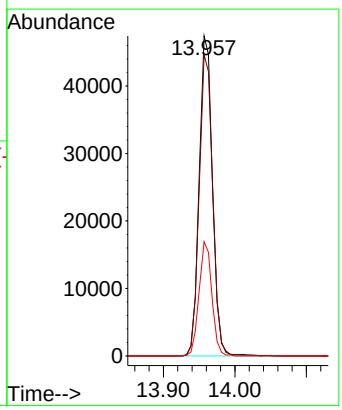




#96
1,2,3-Trichlorobenzene
Concen: 53.273 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045455.D
Acq: 25 Mar 2025 21:00

Tgt Ion:180 Resp: 61143

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.6
145	34.5	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	91964	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	157025	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	77877	53.238	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.480%			
35) Dibromofluoromethane	5.373	113	56697	53.998	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.000%			
50) Toluene-d8	8.641	98	191234	50.238	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.480%			
62) 4-Bromofluorobenzene	11.079	95	69676	55.238	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	73314	63.332	ug/l	96
3) Chloromethane	1.307	50	70570	49.814	ug/l	95
4) Vinyl Chloride	1.374	62	66907	47.609	ug/l	97
5) Bromomethane	1.593	94	31086	56.268	ug/l	98
6) Chloroethane	1.666	64	36275	55.960	ug/l	96
7) Trichlorofluoromethane	1.868	101	99236	53.340	ug/l	99
8) Diethyl Ether	2.130	74	31961	43.921	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.313	101	62646	58.611	ug/l	98
10) Methyl Iodide	2.441	142	73438	54.980	ug/l	92
11) Tert butyl alcohol	2.977	59	53162	191.864	ug/l	96
12) 1,1-Dichloroethene	2.307	96	58592	51.849	ug/l	99
13) Acrolein	2.233	56	88940	277.678	ug/l	99
14) Allyl chloride	2.654	41	109634	54.503	ug/l	93
15) Acrylonitrile	3.063	53	185146	249.317	ug/l	99
16) Acetone	2.380	43	197870	291.541	ug/l	97
17) Carbon Disulfide	2.502	76	149890	49.800	ug/l	97
18) Methyl Acetate	2.703	43	76403	46.794	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	191625	50.544	ug/l	97
20) Methylene Chloride	2.782	84	66154	49.206	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	58856	52.719	ug/l	97
22) Diisopropyl ether	3.757	45	210362	51.421	ug/l	92
23) Vinyl Acetate	3.715	43	941179	275.687	ug/l	98
24) 1,1-Dichloroethane	3.599	63	118227	51.567	ug/l	99
25) 2-Butanone	4.550	43	270734	265.005	ug/l	97
26) 2,2-Dichloropropane	4.465	77	84239	78.333	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	69593	50.497	ug/l	91
28) Bromochloromethane	4.891	49	56942	52.106	ug/l	96
29) Tetrahydrofuran	5.001	42	167731	244.481	ug/l	99
30) Chloroform	5.080	83	119559	52.483	ug/l	100
31) Cyclohexane	5.458	56	105662	53.091	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	100867	54.822	ug/l	98
36) 1,1-Dichloropropene	5.678	75	79534	55.234	ug/l	100
37) Ethyl Acetate	4.709	43	100294	54.053	ug/l	99
38) Carbon Tetrachloride	5.666	117	86484	59.159	ug/l	98
39) Methylcyclohexane	7.373	83	104410	60.514	ug/l	98
40) Benzene	6.025	78	239569	52.687	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	55124	54.944	ug/l		97
42) 1,2-Dichloroethane	6.074	62	96212	58.759	ug/l		97
43) Isopropyl Acetate	6.336	43	154279	56.230	ug/l		98
44) Trichloroethene	7.117	130	57002	53.389	ug/l		99
45) 1,2-Dichloropropane	7.428	63	61406	52.525	ug/l		94
46) Dibromomethane	7.574	93	46702	56.518	ug/l		96
47) Bromodichloromethane	7.818	83	93673	57.794	ug/l		98
48) Methyl methacrylate	7.690	41	78351	56.921	ug/l		94
49) 1,4-Dioxane	7.659	88	27963	963.058	ug/l		94
51) 4-Methyl-2-Pentanone	8.568	43	509094	276.344	ug/l		99
52) Toluene	8.714	92	145998	54.725	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	82038	60.544	ug/l		95
54) cis-1,3-Dichloropropene	8.360	75	94158	59.591	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	58300	53.083	ug/l		99
56) Ethyl methacrylate	9.116	69	94629	56.682	ug/l		93
57) 1,3-Dichloropropane	9.305	76	102224	53.783	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	235219	288.833	ug/l		99
59) 2-Hexanone	9.427	43	374413	280.504	ug/l		97
60) Dibromochloromethane	9.519	129	65721	57.231	ug/l		98
61) 1,2-Dibromoethane	9.604	107	60652	55.319	ug/l		97
64) Tetrachloroethene	9.269	164	48945	55.374	ug/l		96
65) Chlorobenzene	10.073	112	156208	53.491	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	52947	54.444	ug/l		98
67) Ethyl Benzene	10.189	91	284774	55.966	ug/l		100
68) m/p-Xylenes	10.299	106	208248	111.797	ug/l		96
69) o-Xylene	10.640	106	101072	53.800	ug/l		96
70) Styrene	10.653	104	171021	56.260	ug/l		97
71) Bromoform	10.799	173	41772	56.960	ug/l	#	98
73) Isopropylbenzene	10.957	105	269678	54.796	ug/l		99
74) N-amyl acetate	10.842	43	128614	55.694	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	89098	49.335	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	96832	65.981	ug/l		85
77) Bromobenzene	11.195	156	59631	51.354	ug/l		94
78) n-propylbenzene	11.299	91	317882	57.179	ug/l		99
79) 2-Chlorotoluene	11.360	91	187848	53.055	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	222923	56.020	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	24810	57.854	ug/l		89
82) 4-Chlorotoluene	11.451	91	216854	56.197	ug/l		98
83) tert-Butylbenzene	11.713	119	221337	54.134	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	222016	55.448	ug/l		98
85) sec-Butylbenzene	11.890	105	281382	57.451	ug/l		98
86) p-Isopropyltoluene	12.006	119	230228	58.167	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	108155	52.211	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	107631	51.357	ug/l		98
89) n-Butylbenzene	12.329	91	207819	60.962	ug/l		99
90) Hexachloroethane	12.536	117	40417	56.455	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	106186	51.100	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19761	56.165	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	62951	53.203	ug/l		98
94) Hexachlorobutadiene	13.719	225	27769	57.244	ug/l		97
95) Naphthalene	13.774	128	232852	51.221	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	64177	51.414	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

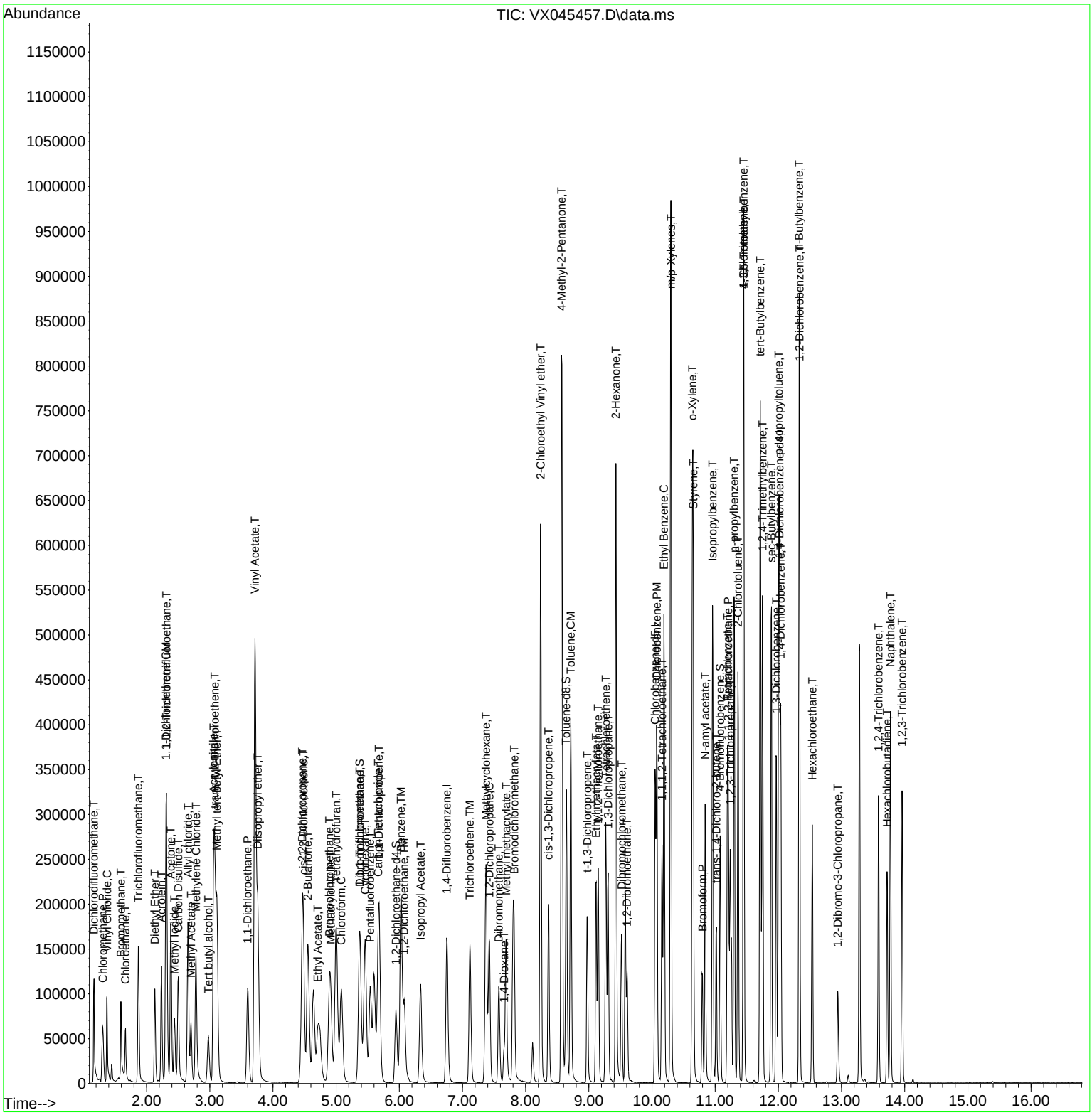
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

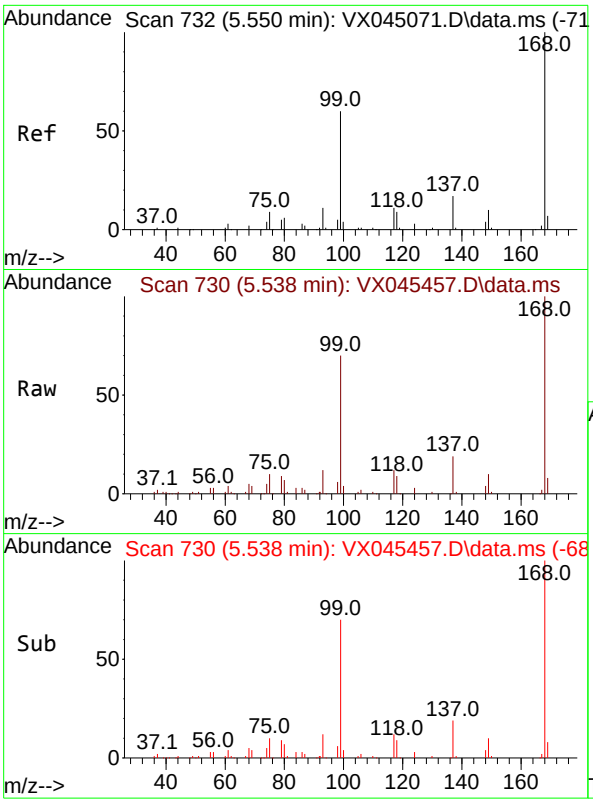
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045457.D
Acq On : 26 Mar 2025 10:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Mar 27 01:31:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



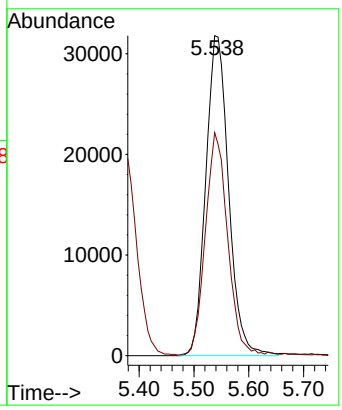


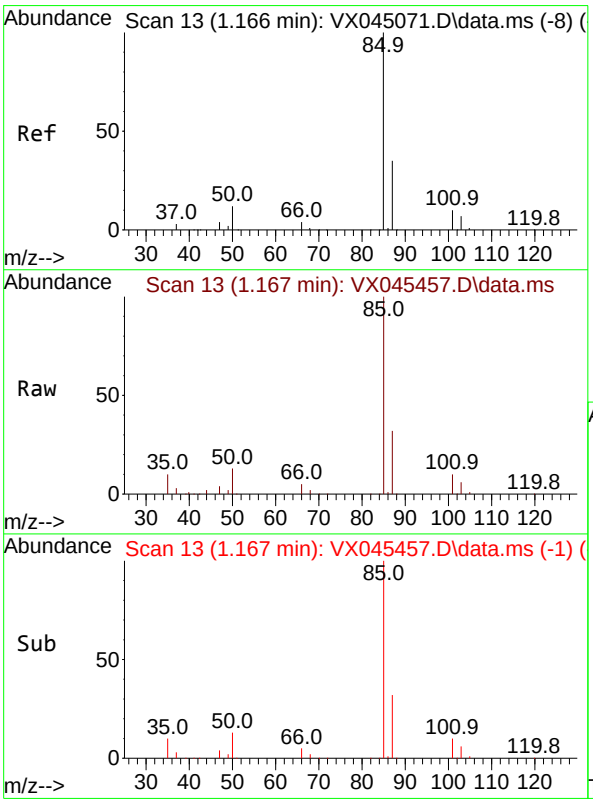
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 91964

Ion	Ratio	Lower	Upper
168	100		
99	69.5	48.2	72.4

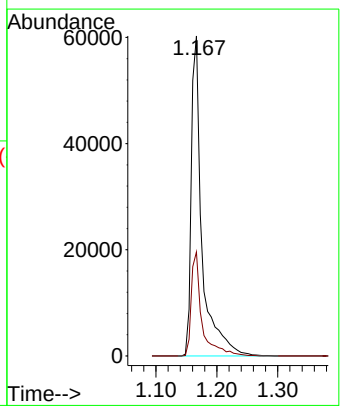


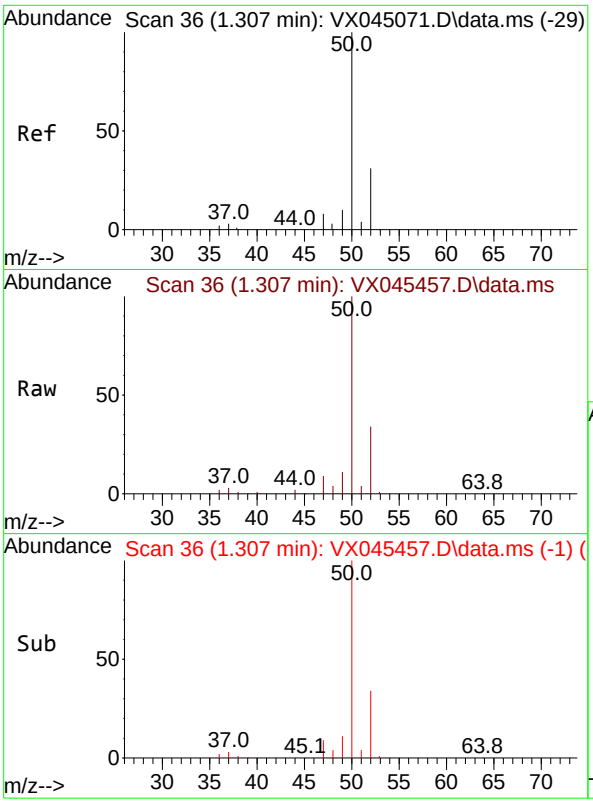


#2
Dichlorodifluoromethane
Concen: 63.332 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 85 Resp: 73314

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.4	52.3



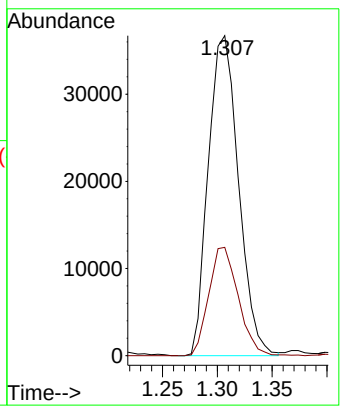


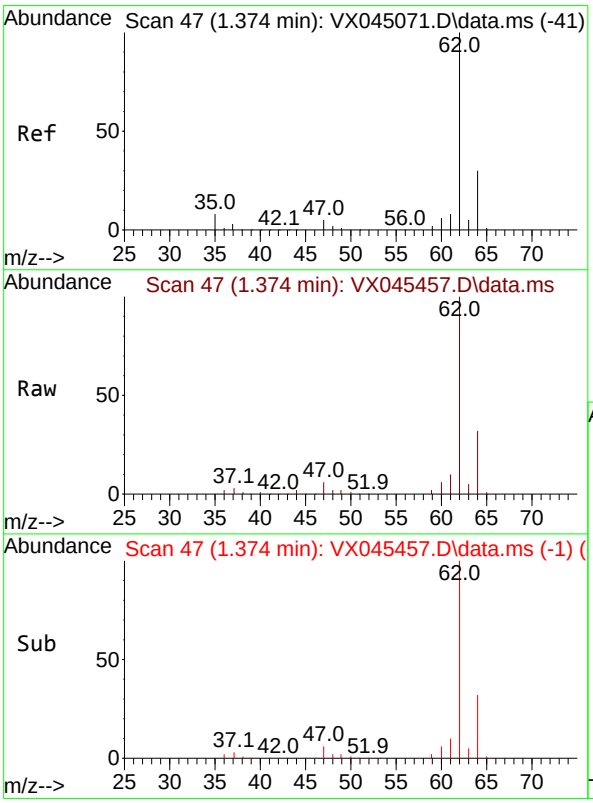
#3
Chloromethane
Concen: 49.814 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 70570

Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.0	37.4

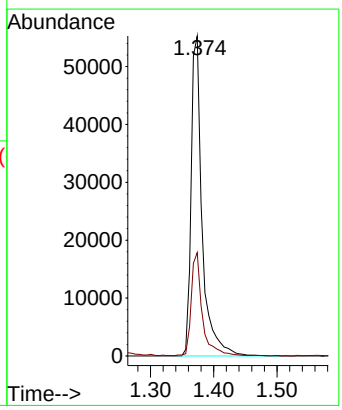


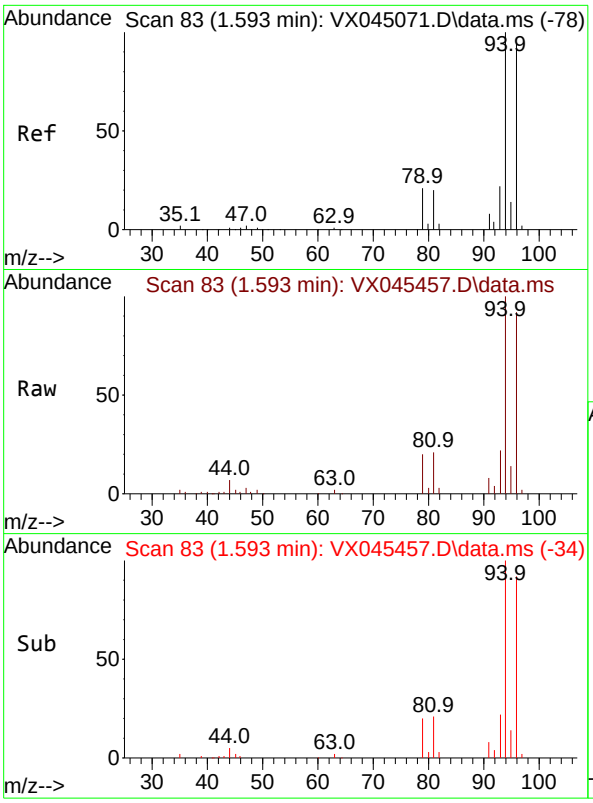


#4
Vinyl Chloride
Concen: 47.609 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 62 Resp: 66907

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.3	36.5



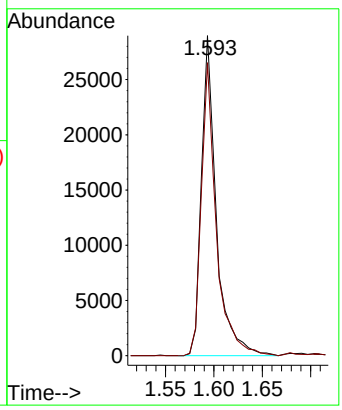


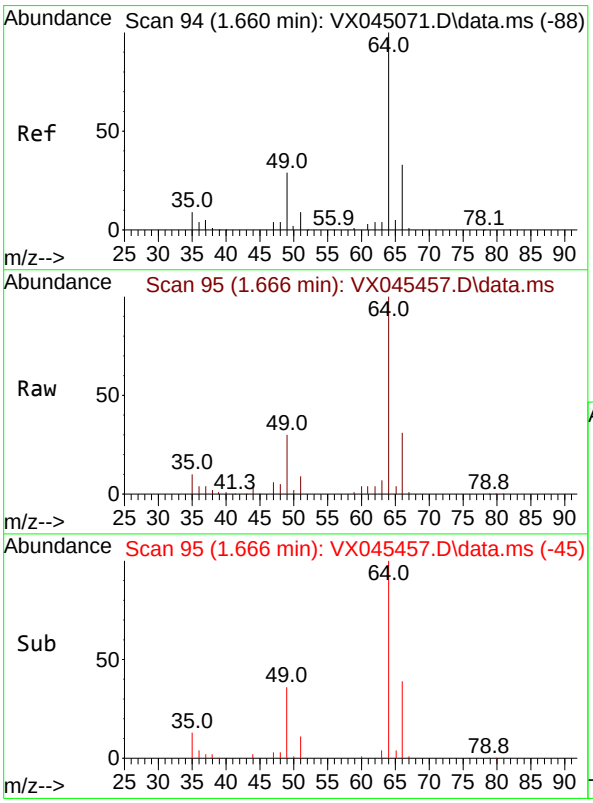
#5
Bromomethane
Concen: 56.268 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 31086

Ion	Ratio	Lower	Upper
94	100		
96	91.6	75.0	112.4

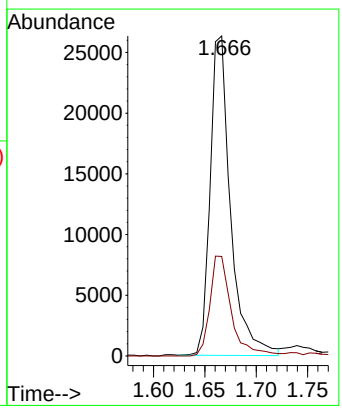


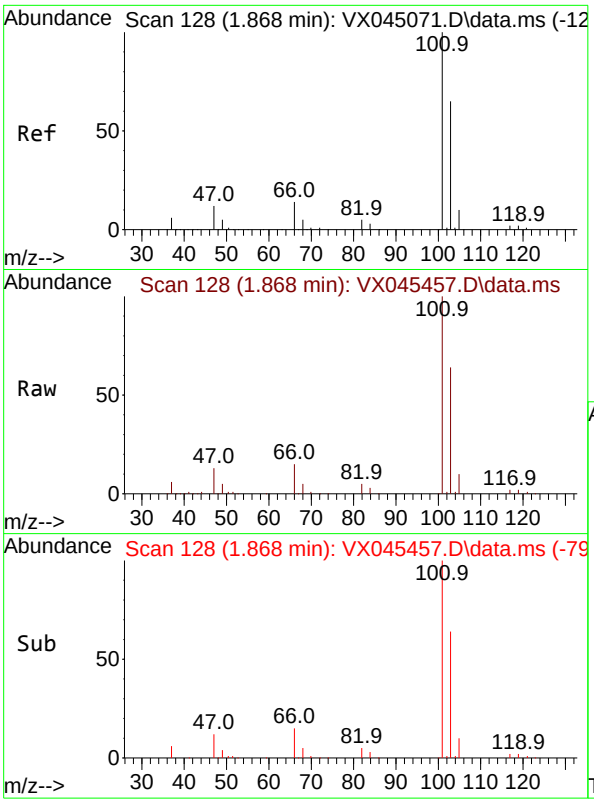


#6
Chloroethane
Concen: 55.960 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 64 Resp: 36275

Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.7	40.1



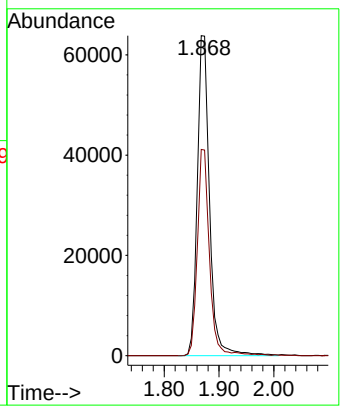


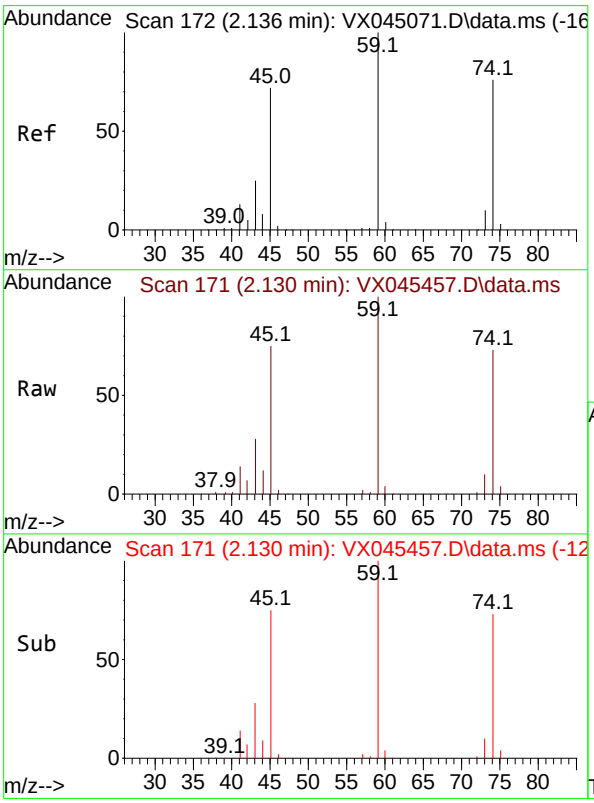
#7
Trichlorofluoromethane
Concen: 53.340 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 99236

Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.1	78.1

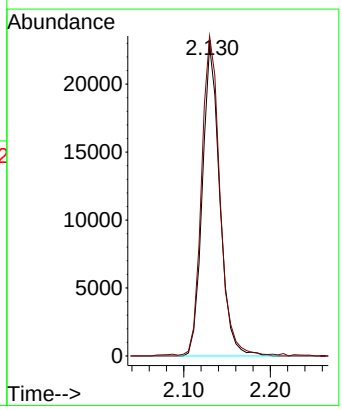


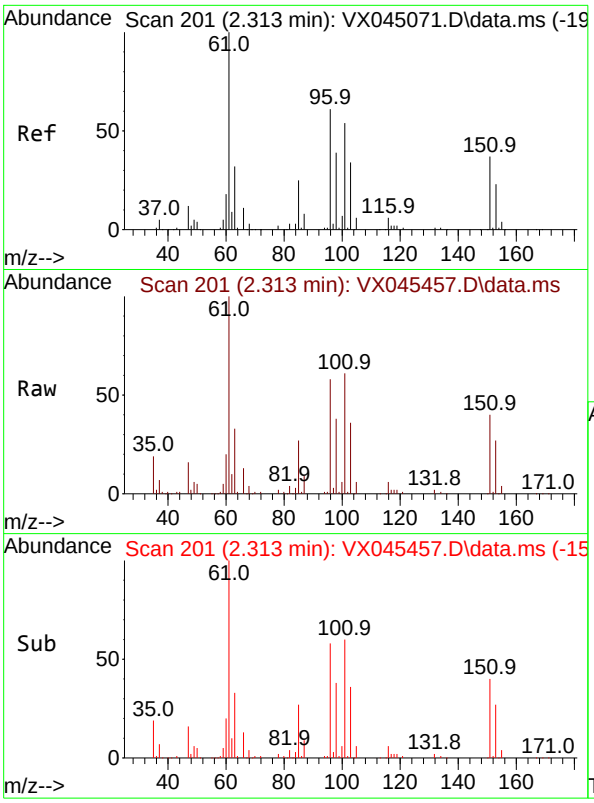


#8
Diethyl Ether
Concen: 43.921 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 74 Resp: 31961

Ion	Ratio	Lower	Upper
74	100		
45	109.1	51.5	154.5



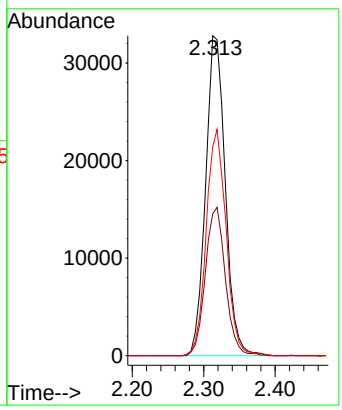


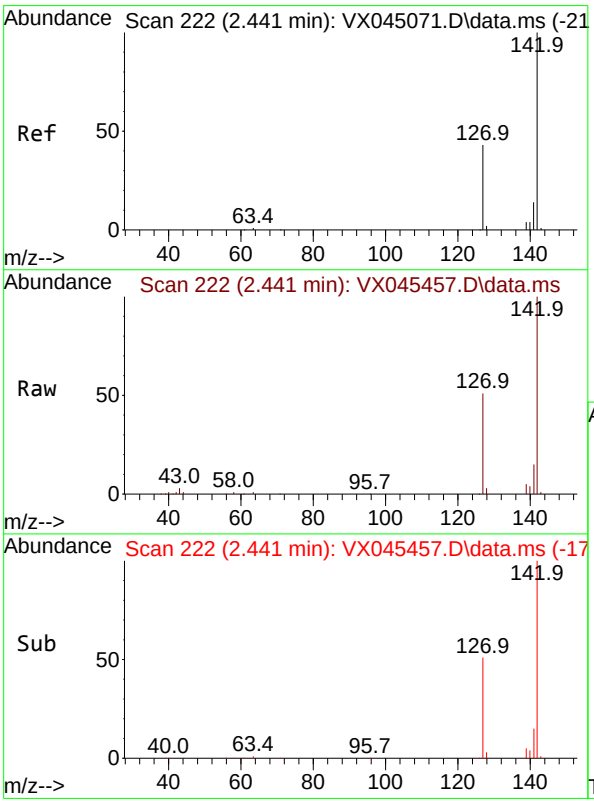
#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.611 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 62646

Ion	Ratio	Lower	Upper
101	100		
85	47.3	36.2	54.4
151	71.7	56.4	84.6

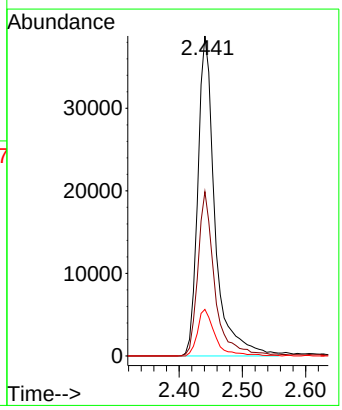


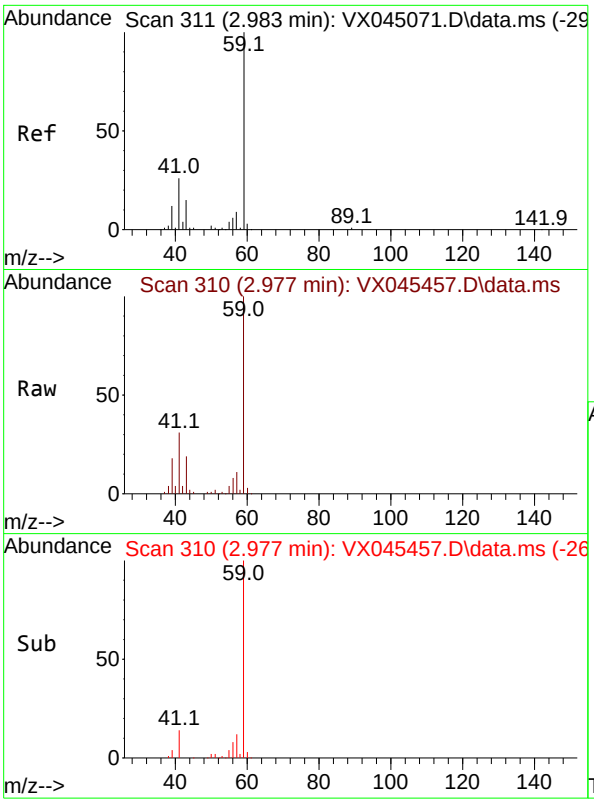


#10
Methyl Iodide
Concen: 54.980 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:142 Resp: 73438

Ion	Ratio	Lower	Upper
142	100		
127	50.6	35.4	53.2
141	14.9	11.6	17.4



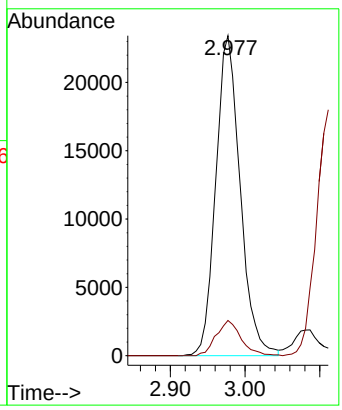


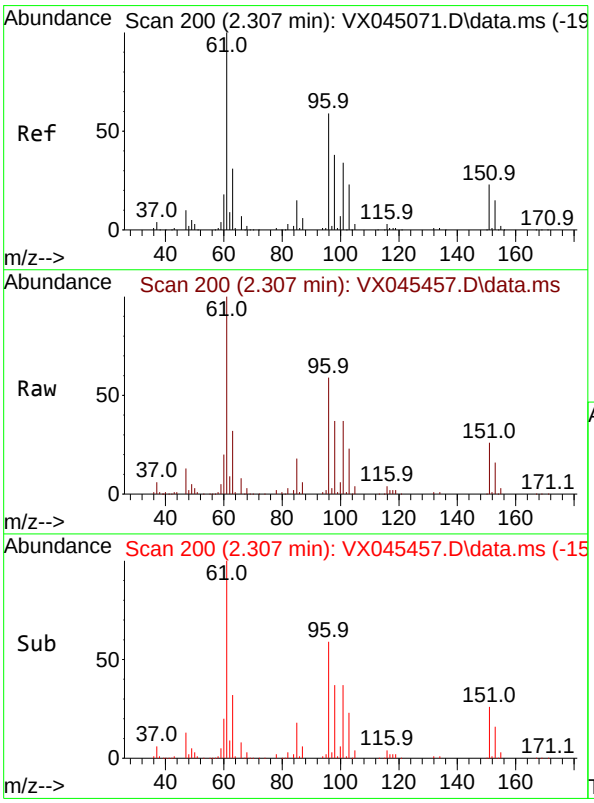
#11
Tert butyl alcohol
Concen: 191.864 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 53162

Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.8	11.8

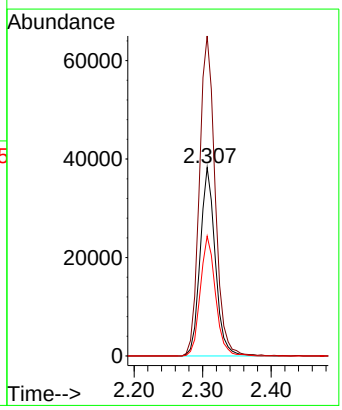


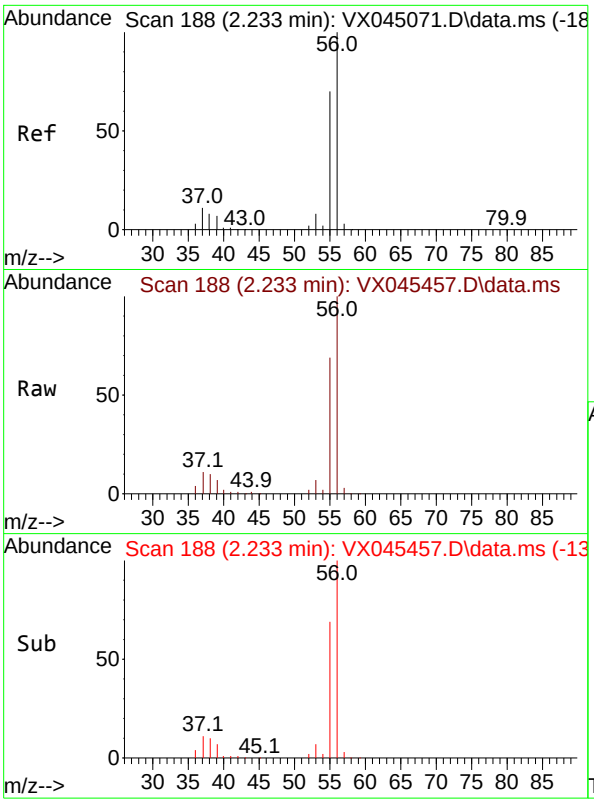


#12
1,1-Dichloroethene
Concen: 51.849 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 96 Resp: 58592

Ion	Ratio	Lower	Upper
96	100		
61	169.7	134.6	202.0
98	63.6	51.0	76.6



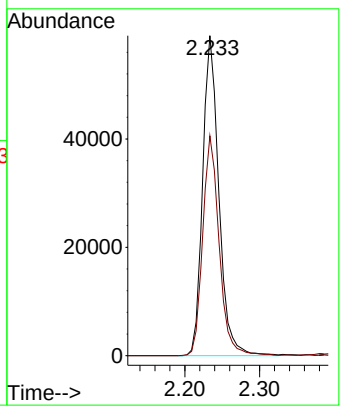


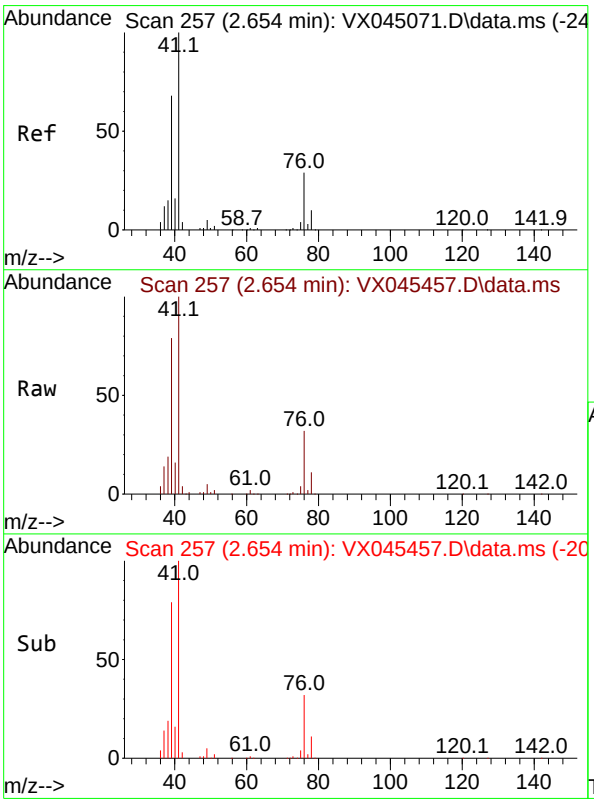
#13
Acrolein
Concen: 277.678 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 88940

Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.2	84.4

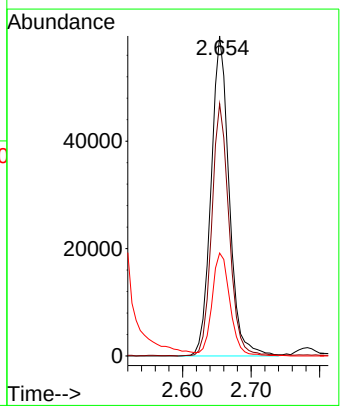


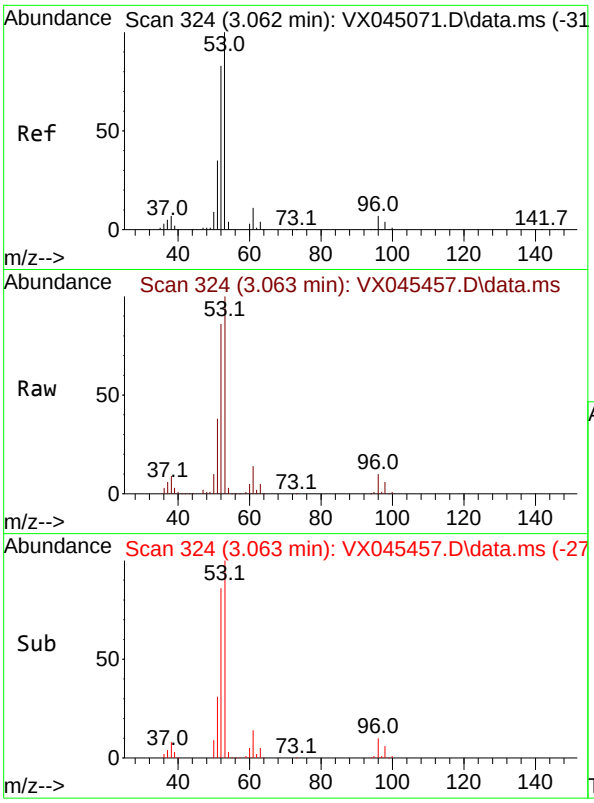


#14
Allyl chloride
Concen: 54.503 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 41 Resp: 109634

Ion	Ratio	Lower	Upper
41	100		
39	75.4	53.8	80.8
76	32.0	25.2	37.8



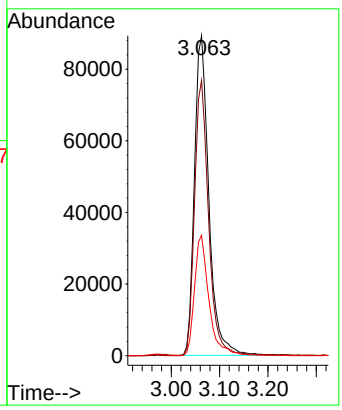


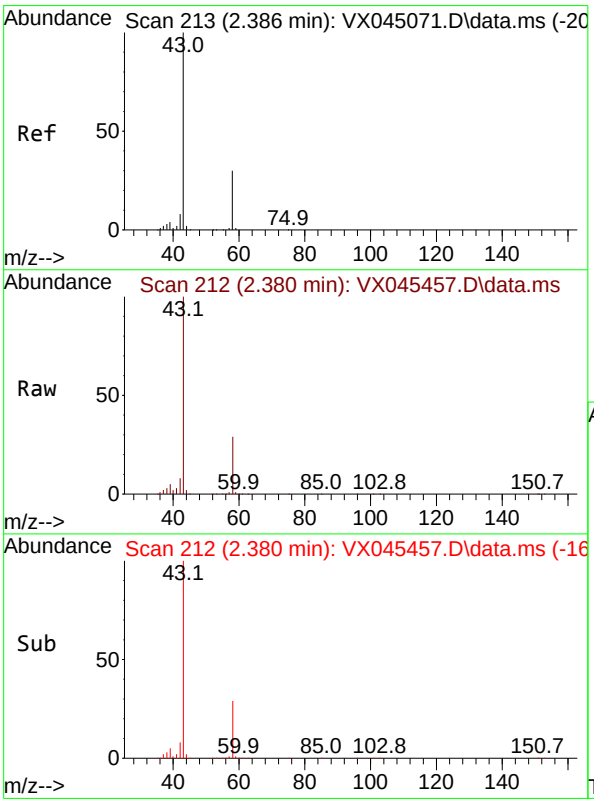
#15
Acrylonitrile
Concen: 249.317 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 185146

Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.2	99.2
51	37.4	29.0	43.4

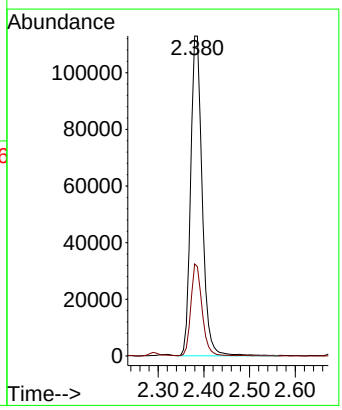


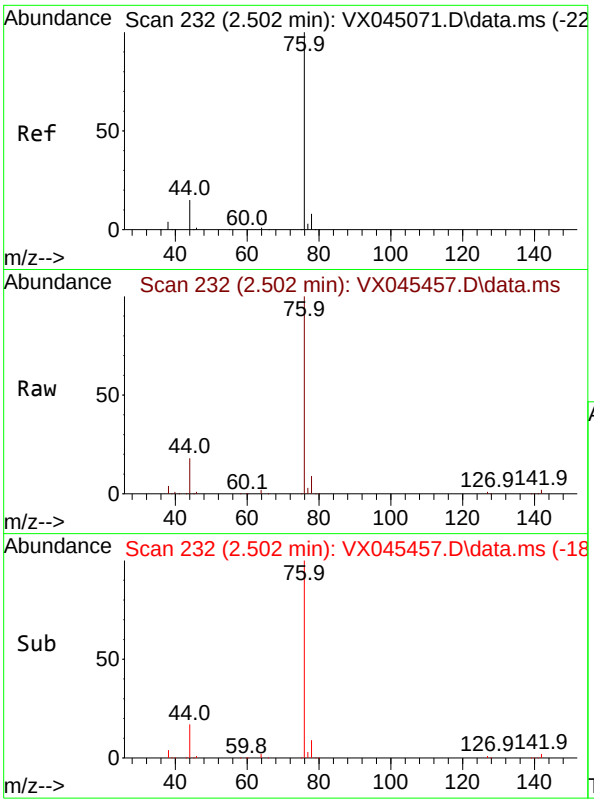


#16
Acetone
Concen: 291.541 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 197870

Ion	Ratio	Lower	Upper
43	100		
58	28.8	24.2	36.4



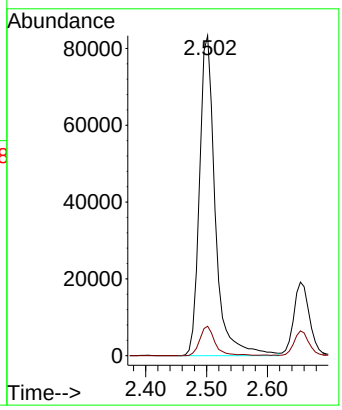


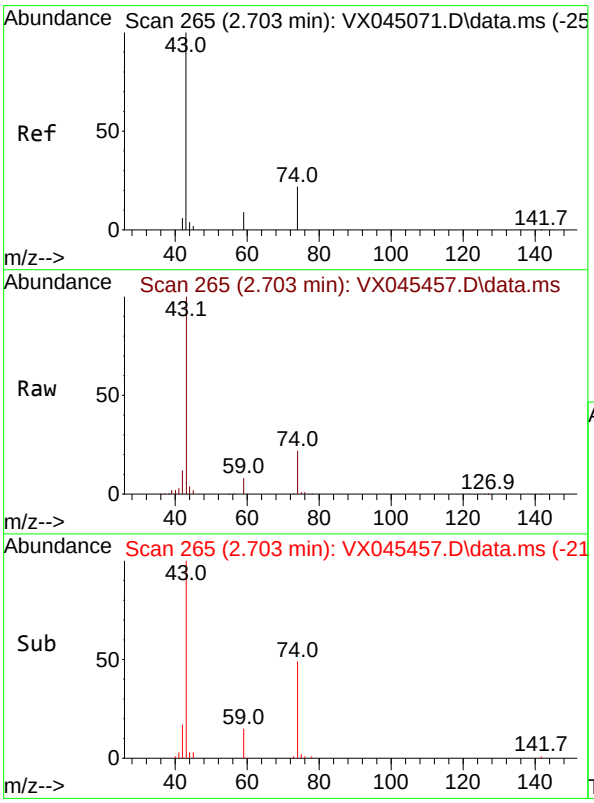
#17
Carbon Disulfide
Concen: 49.800 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 149890

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.6	9.8

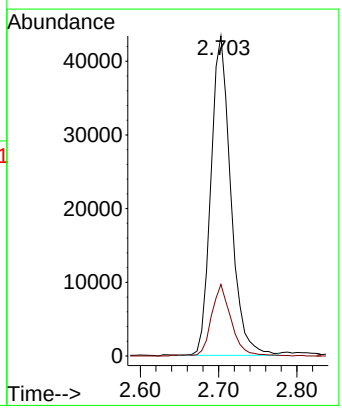


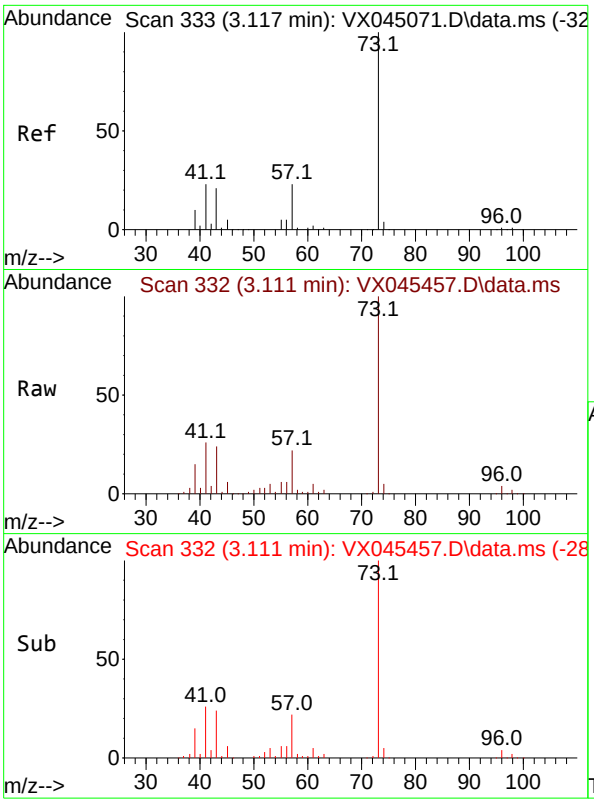


#18
Methyl Acetate
Concen: 46.794 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 76403

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



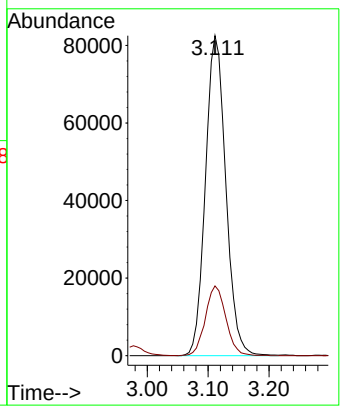


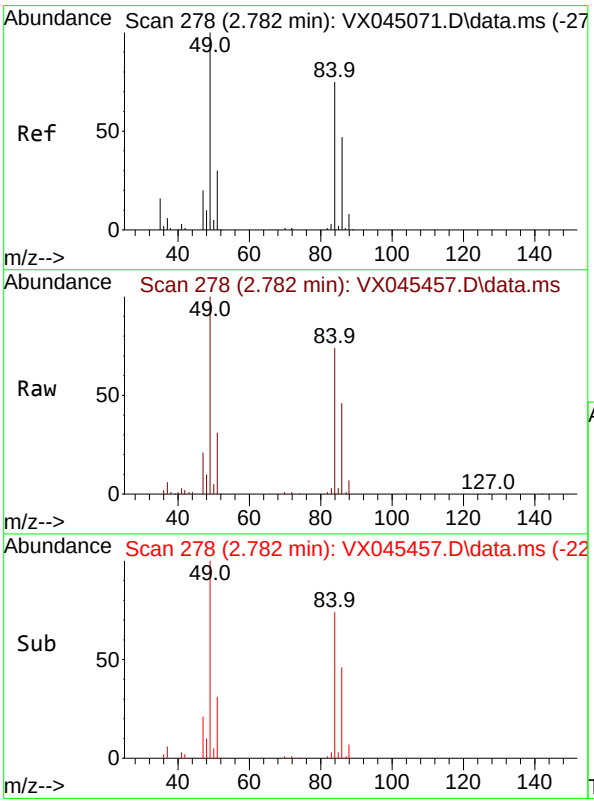
#19
Methyl tert-butyl Ether
Concen: 50.544 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 191625

Ion	Ratio	Lower	Upper
73	100		
57	21.8	18.5	27.7

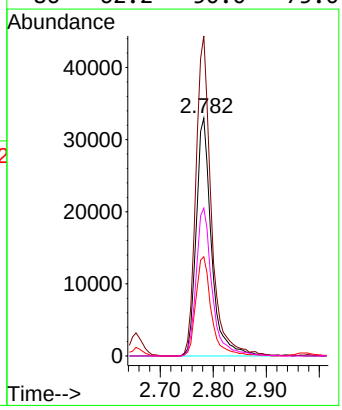


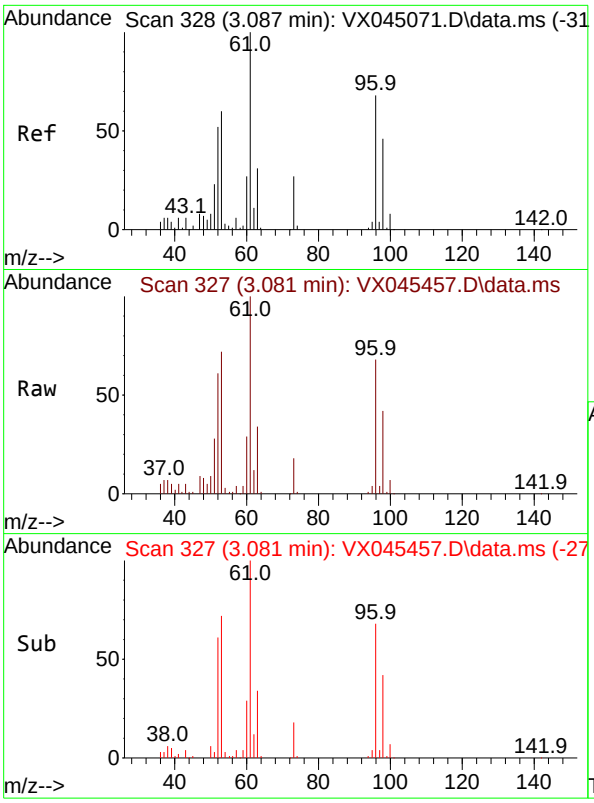


#20
Methylene Chloride
Concen: 49.206 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 84 Resp: 66154

Ion	Ratio	Lower	Upper
84	100		
49	134.6	106.5	159.7
51	41.7	32.1	48.1
86	62.2	50.0	75.0



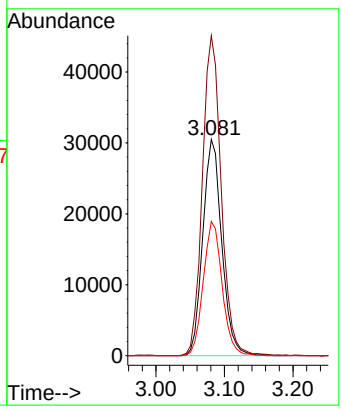


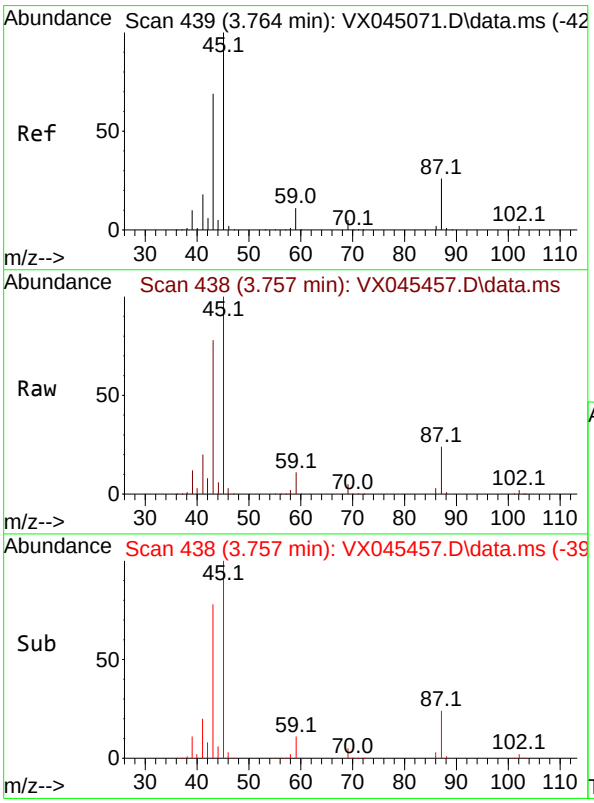
#21
trans-1,2-Dichloroethene
Concen: 52.719 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 58856

Ion	Ratio	Lower	Upper
96	100		
61	147.9	117.0	175.4
98	62.1	53.4	80.2

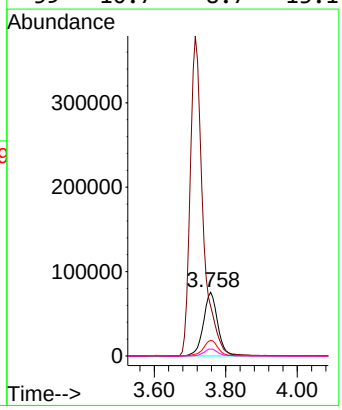


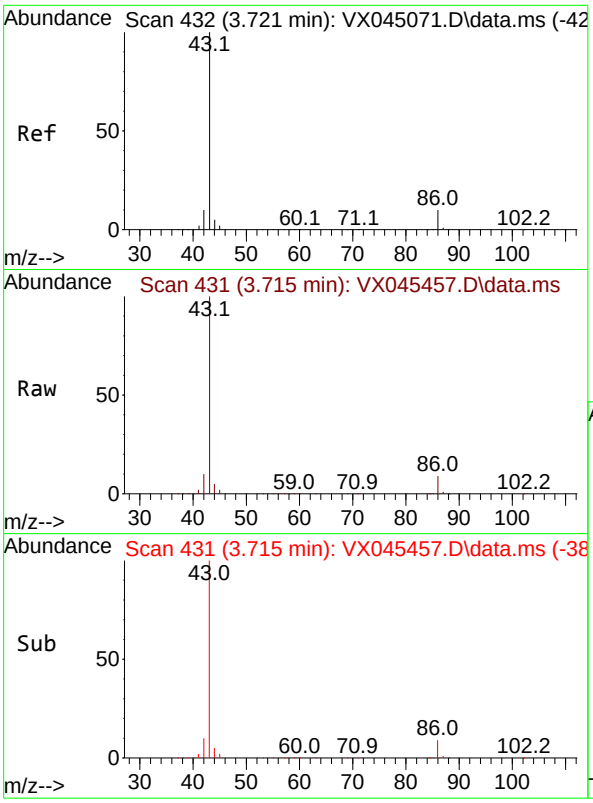


#22
Diisopropyl ether
Concen: 51.421 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 45 Resp: 210362

Ion	Ratio	Lower	Upper
45	100		
43	77.6	54.9	82.3
87	24.5	21.0	31.4
59	10.7	8.7	13.1



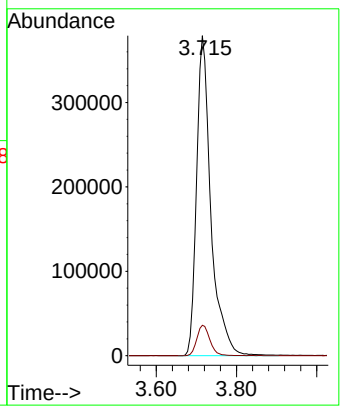


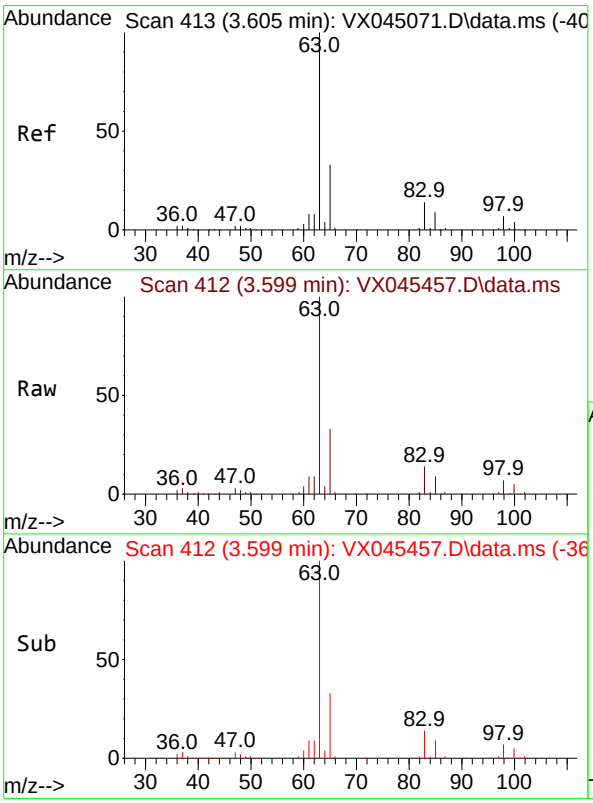
#23
Vinyl Acetate
Concen: 275.687 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 941179

Ion	Ratio	Lower	Upper
43	100		
86	9.5	8.1	12.1

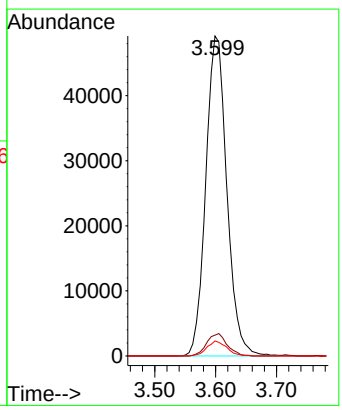


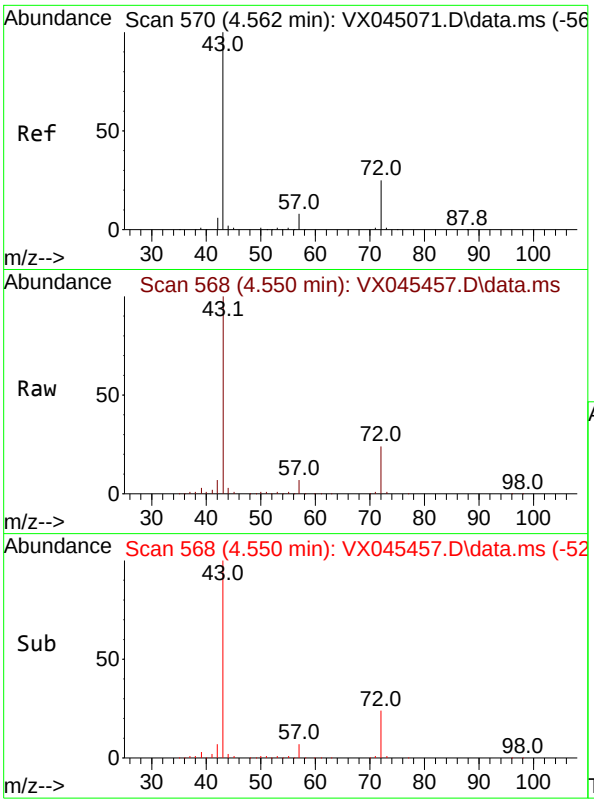


#24
1,1-Dichloroethane
Concen: 51.567 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 63 Resp: 118227

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.2
100	4.7	2.1	6.5



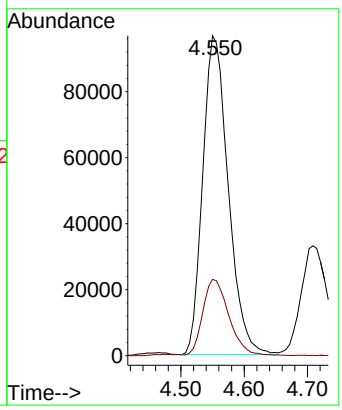


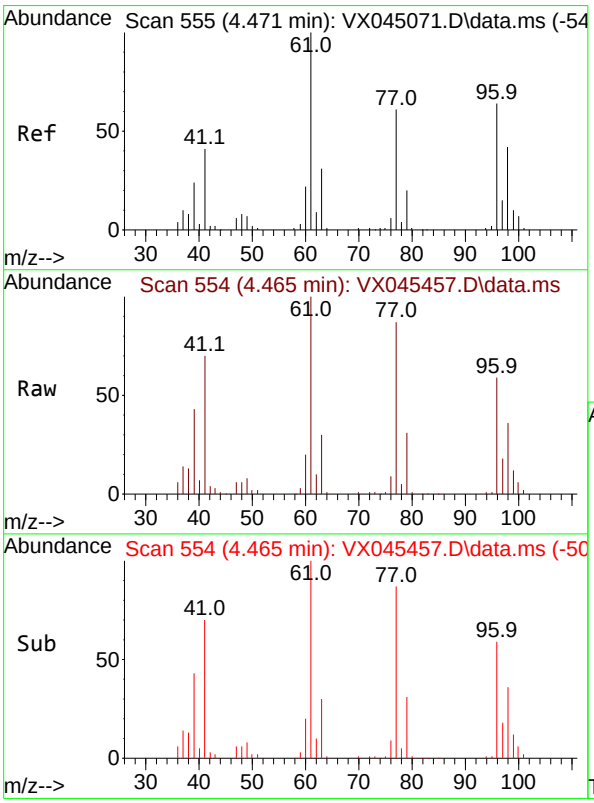
#25
2-Butanone
Concen: 265.005 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 270734

Ion	Ratio	Lower	Upper
43	100		
72	23.7	20.0	30.0

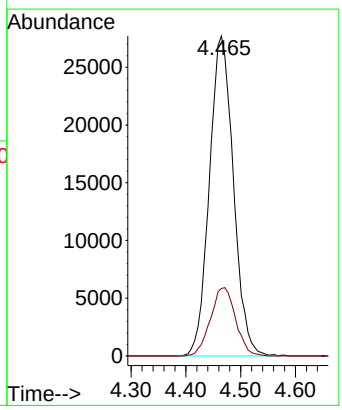


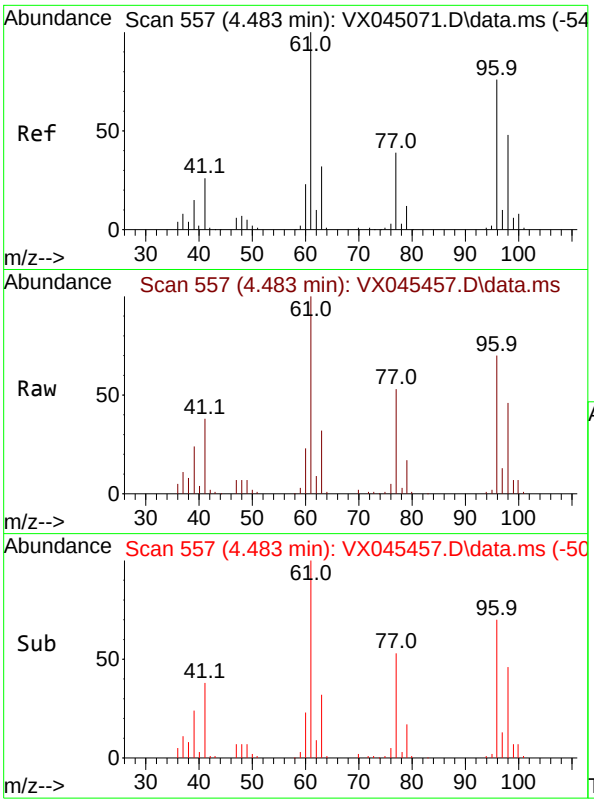


#26
2,2-Dichloropropane
Concen: 78.333 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 77 Resp: 84239

Ion	Ratio	Lower	Upper
77	100		
97	22.4	12.4	37.0



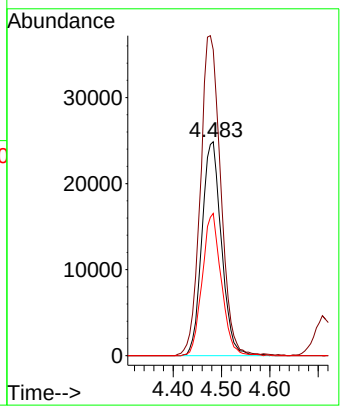


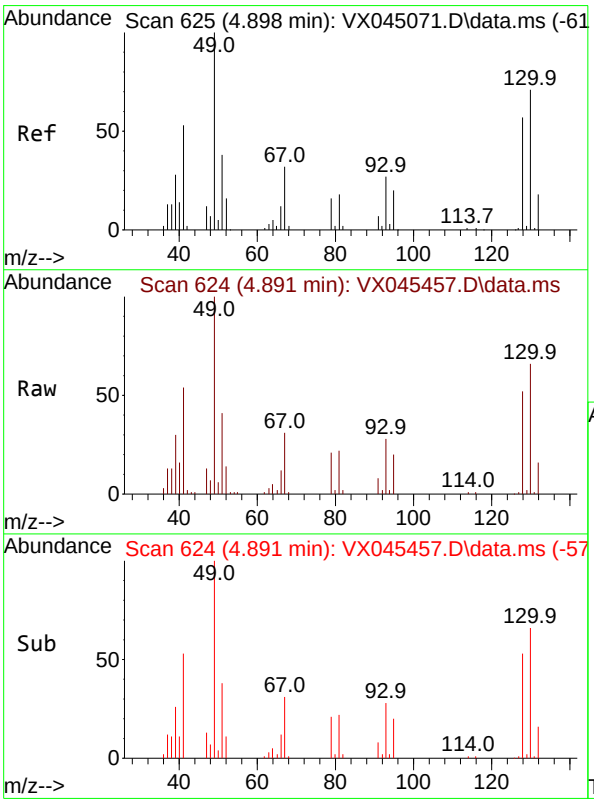
#27
cis-1,2-Dichloroethene
Concen: 50.497 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 69593

Ion	Ratio	Lower	Upper
96	100		
61	156.0	0.0	283.2
98	65.1	0.0	128.0

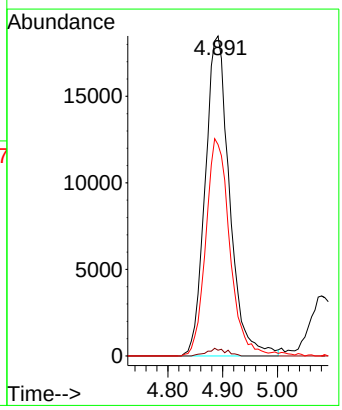


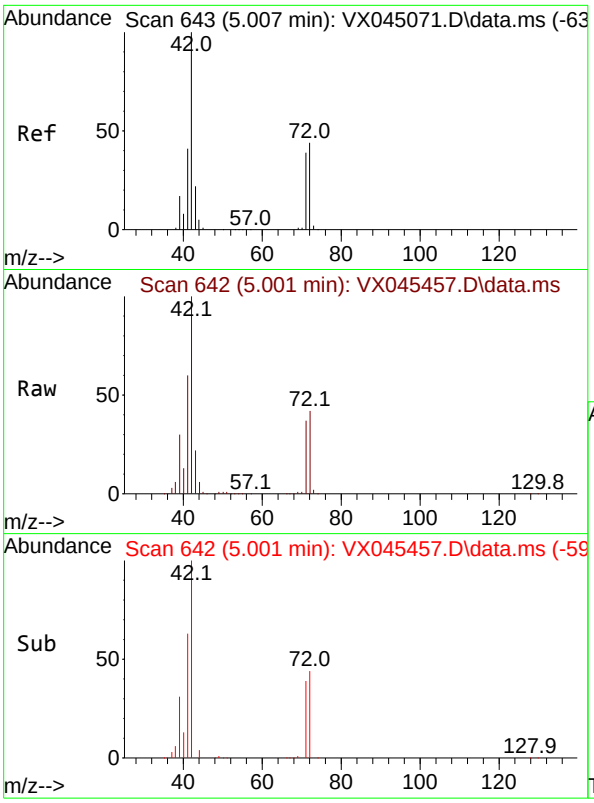


#28
Bromochloromethane
Concen: 52.106 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 49 Resp: 56942

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.4
130	66.6	56.1	84.1



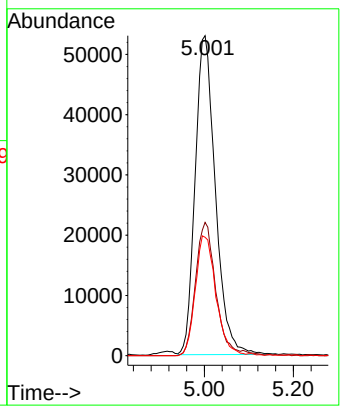


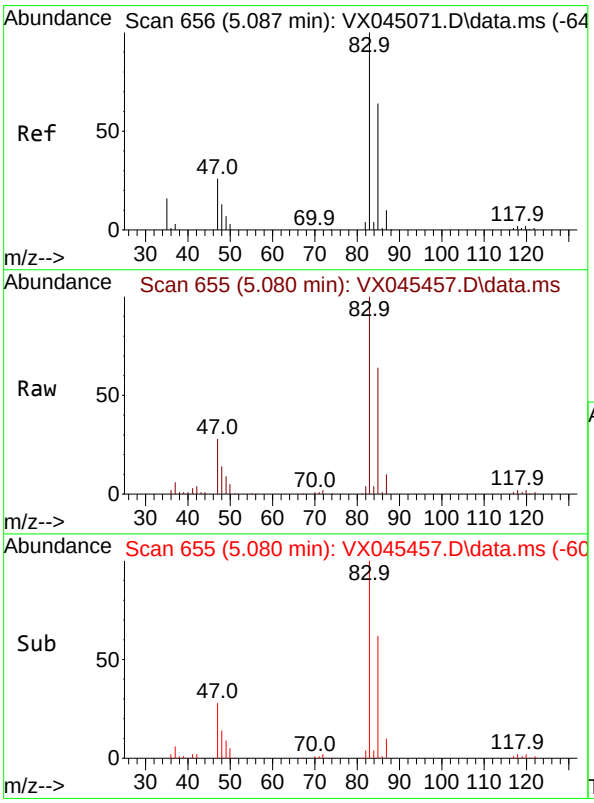
#29
Tetrahydrofuran
Concen: 244.481 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 167731

Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.1	51.1
71	38.3	31.4	47.0

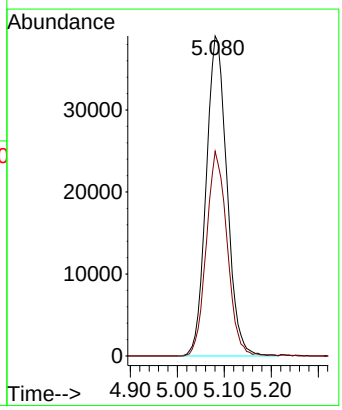


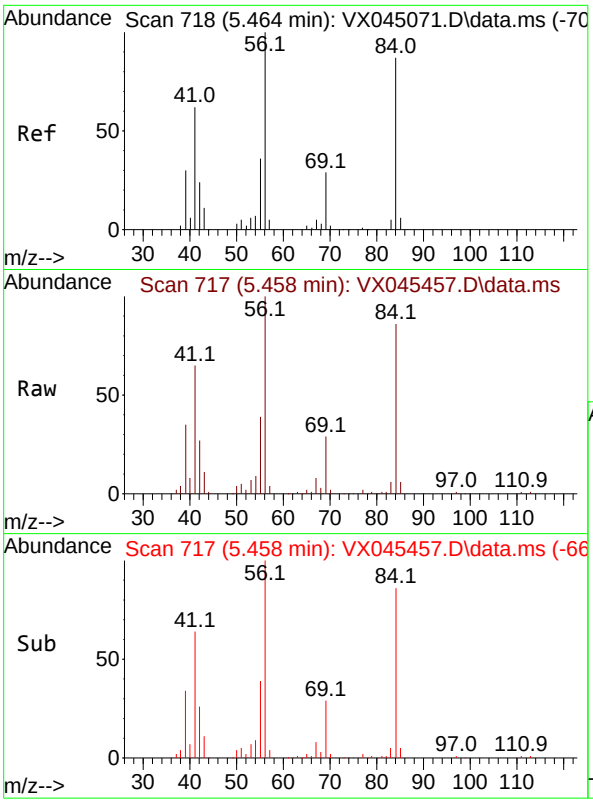


#30
Chloroform
Concen: 52.483 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 83 Resp: 119559

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.4	77.2



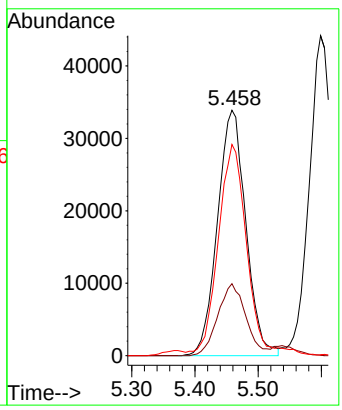


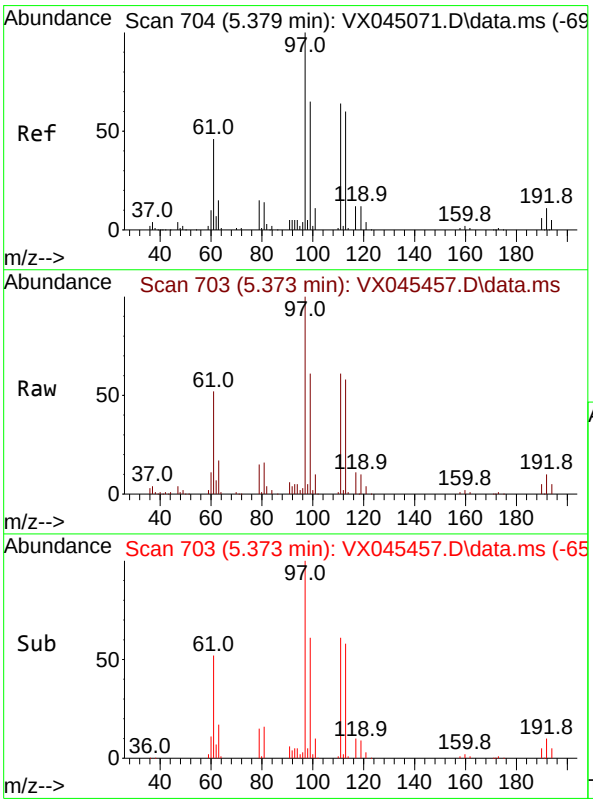
#31
Cyclohexane
Concen: 53.091 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 105662

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.4	35.2
84	84.0	69.4	104.2

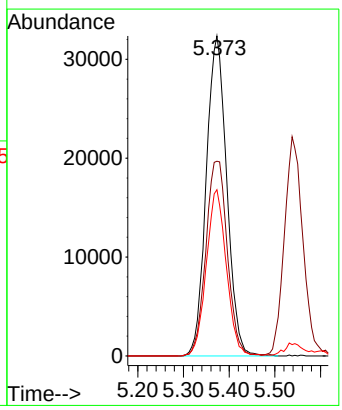


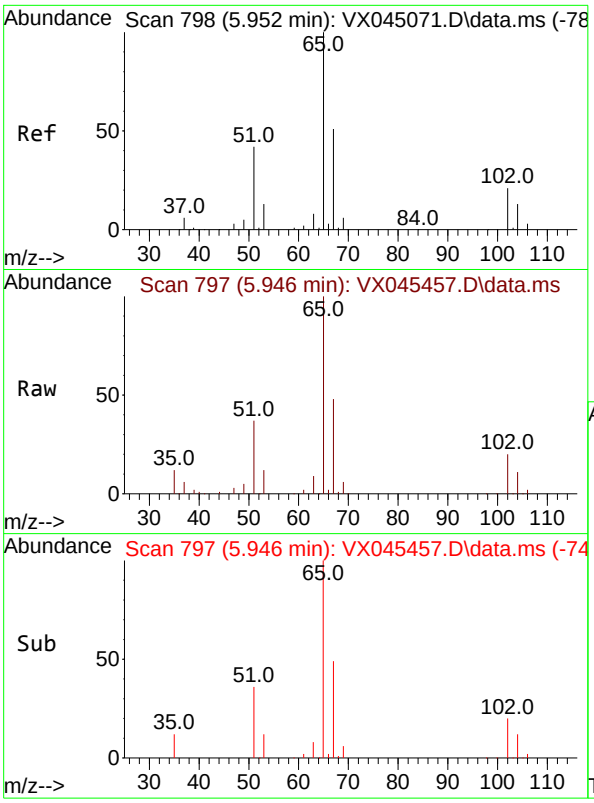


#32
1,1,1-Trichloroethane
Concen: 54.822 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 97 Resp: 100867

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	51.0	38.4	57.6



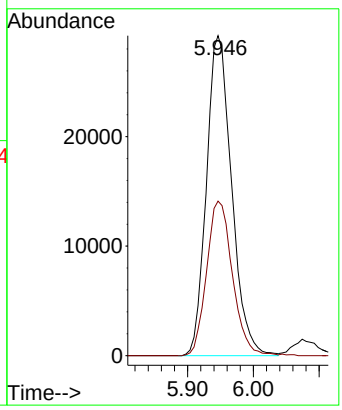


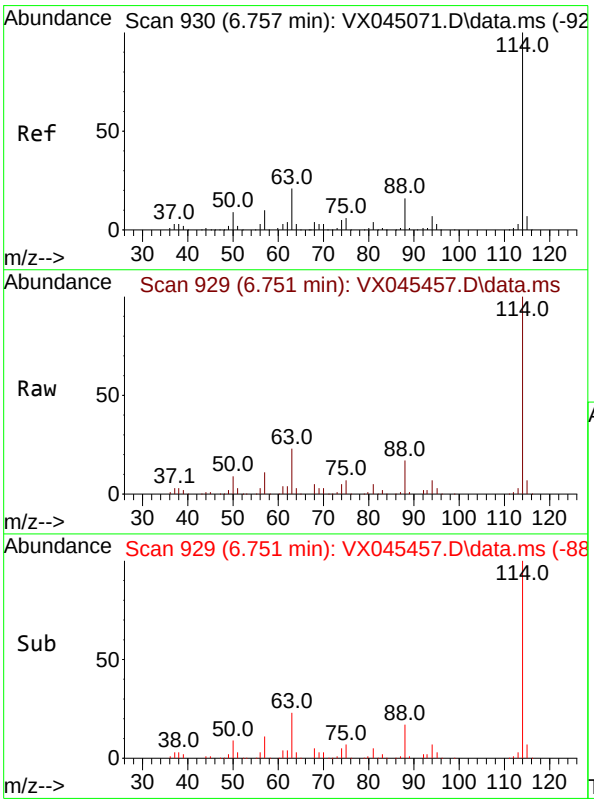
#33
1,2-Dichloroethane-d4
Concen: 53.238 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 77877

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	106.2

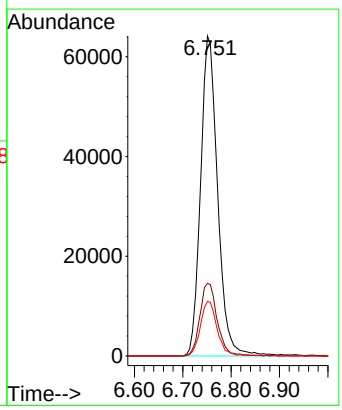


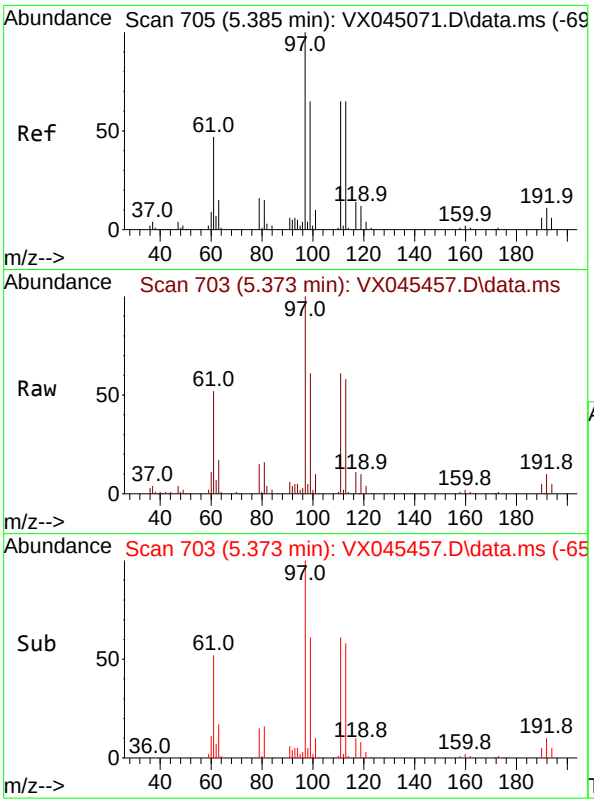


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:114 Resp: 157025

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	41.8
88	17.1	0.0	32.8



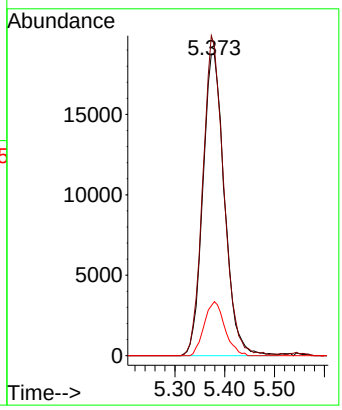


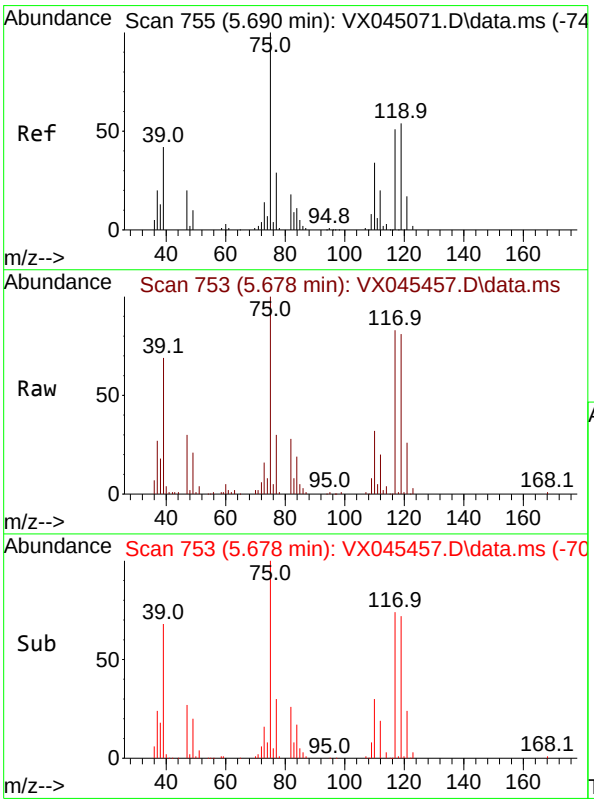
#35
Dibromofluoromethane
Concen: 53.998 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 56697

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	17.0	14.3	21.5

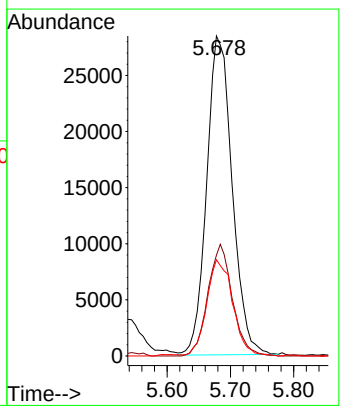


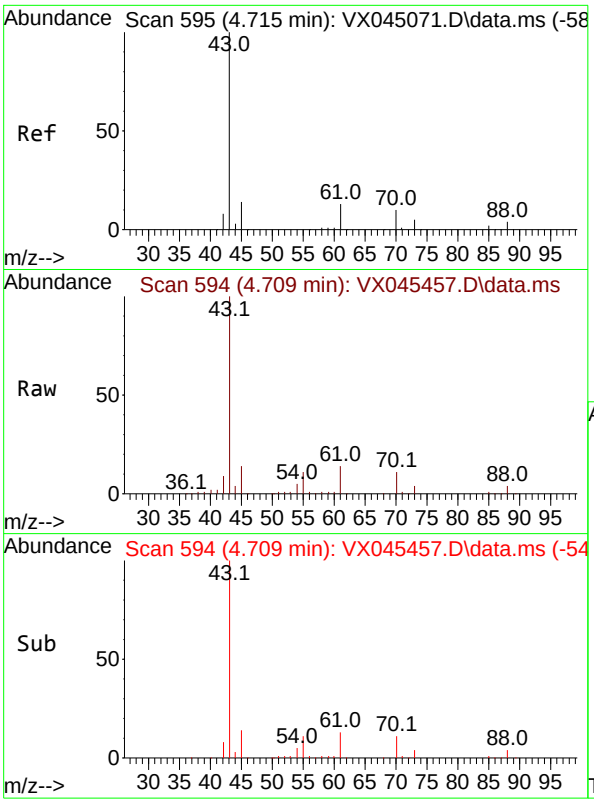


#36
1,1-Dichloropropene
Concen: 55.234 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.012 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 79534

Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.9	50.6
77	30.8	24.5	36.7



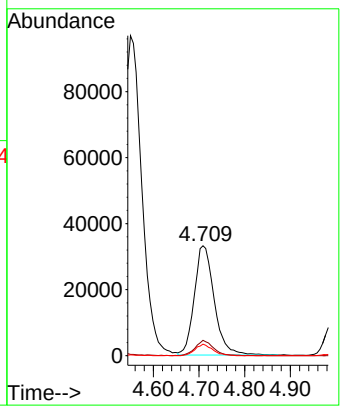


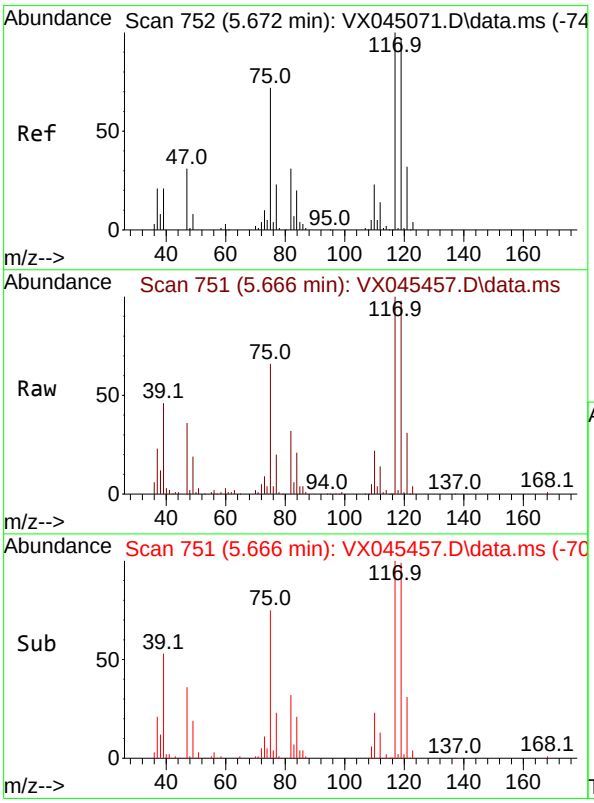
#37
Ethyl Acetate
Concen: 54.053 ug/l
RT: 4.709 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 100294

Ion	Ratio	Lower	Upper
43	100		
61	12.8	10.8	16.2
70	9.2	7.7	11.5

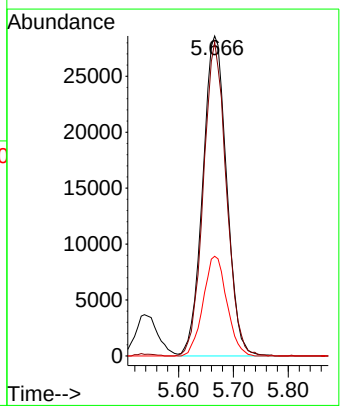


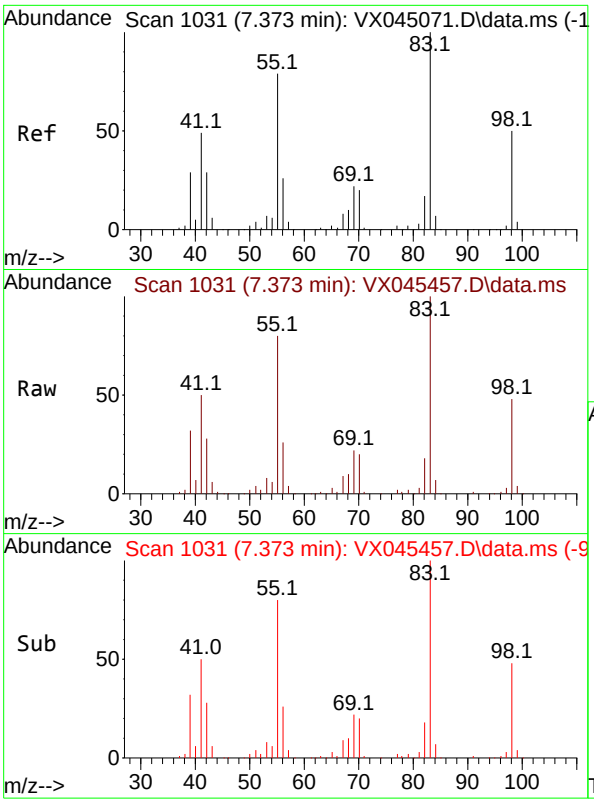


#38
Carbon Tetrachloride
Concen: 59.159 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:117 Resp: 86484

Ion	Ratio	Lower	Upper
117	100		
119	98.0	76.7	115.1
121	31.1	25.5	38.3



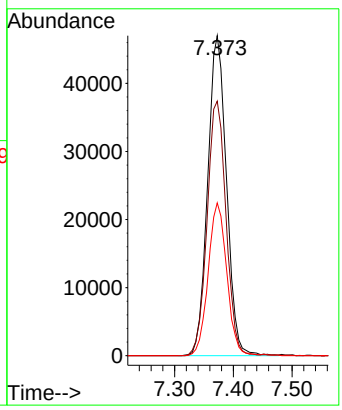


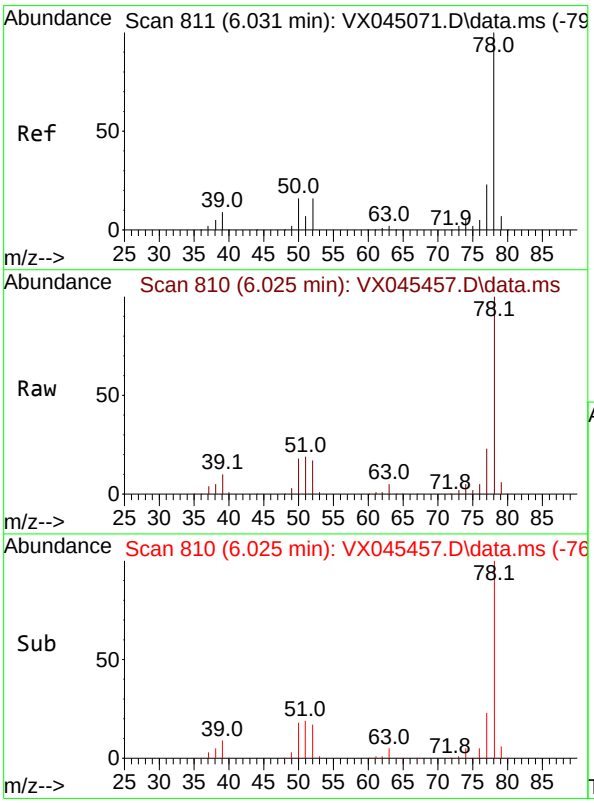
#39
Methylcyclohexane
Concen: 60.514 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 104410

Ion	Ratio	Lower	Upper
83	100		
55	79.6	63.0	94.4
98	47.7	39.7	59.5

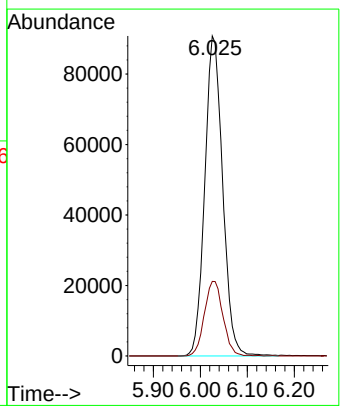


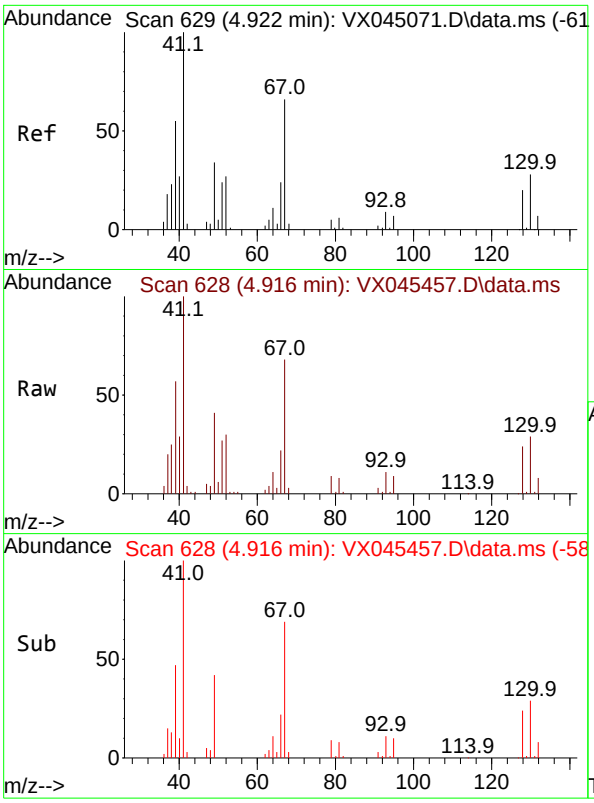


#40
Benzene
Concen: 52.687 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 78 Resp: 239569

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2



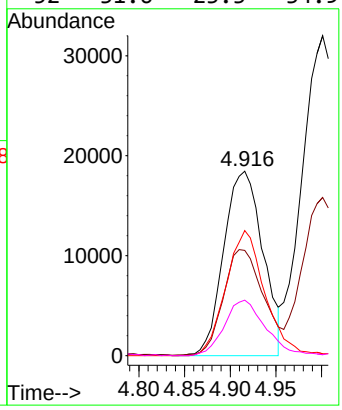


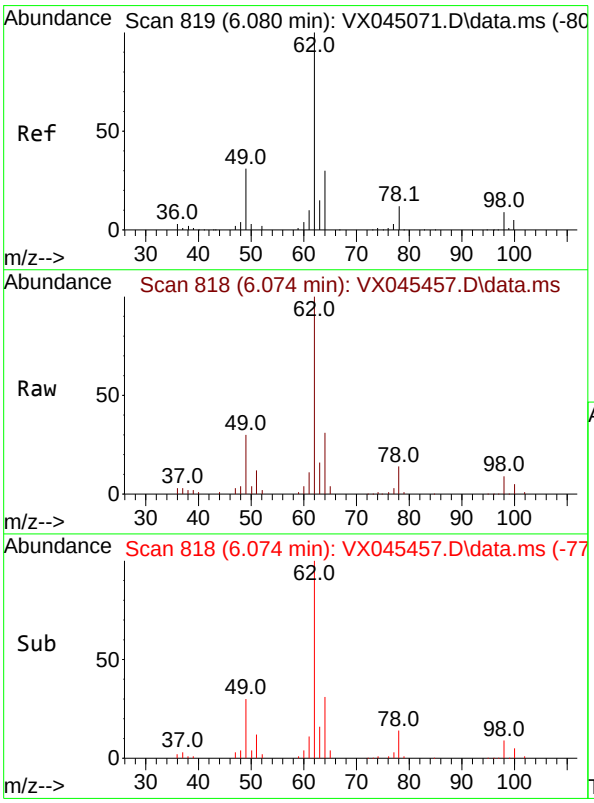
#41
Methacrylonitrile
Concen: 54.944 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 55124

Ion	Ratio	Lower	Upper
41	100		
39	59.2	44.6	67.0
67	67.8	53.9	80.9
52	31.6	23.3	34.9

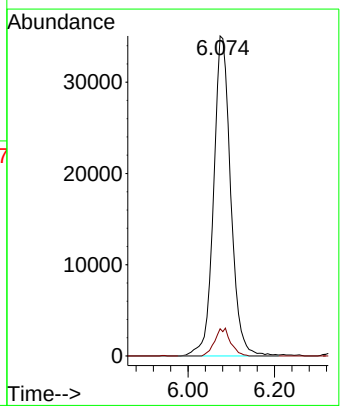


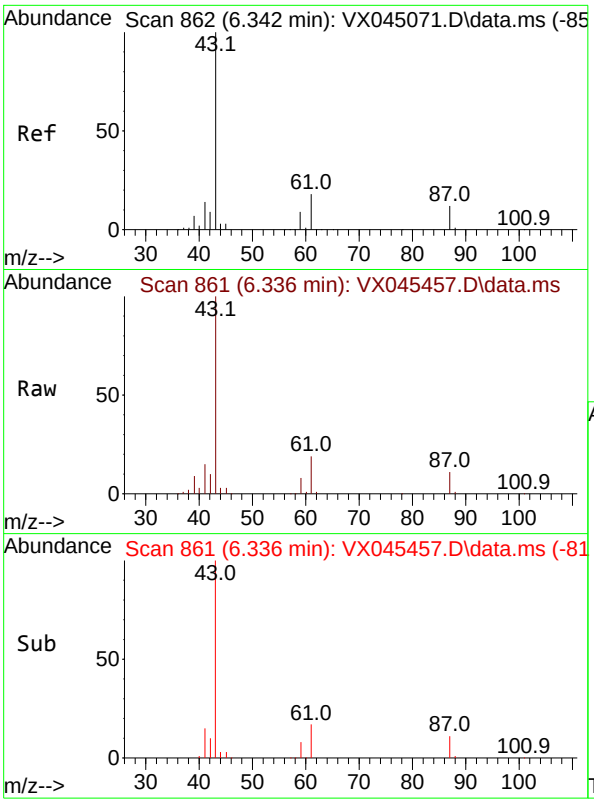


#42
1,2-Dichloroethane
Concen: 58.759 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 62 Resp: 96212

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	18.2



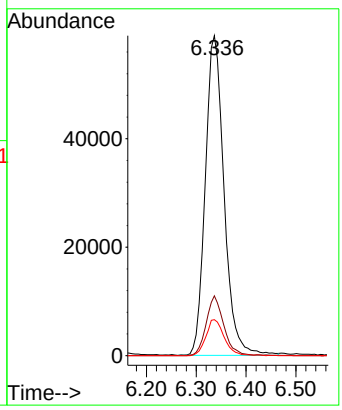


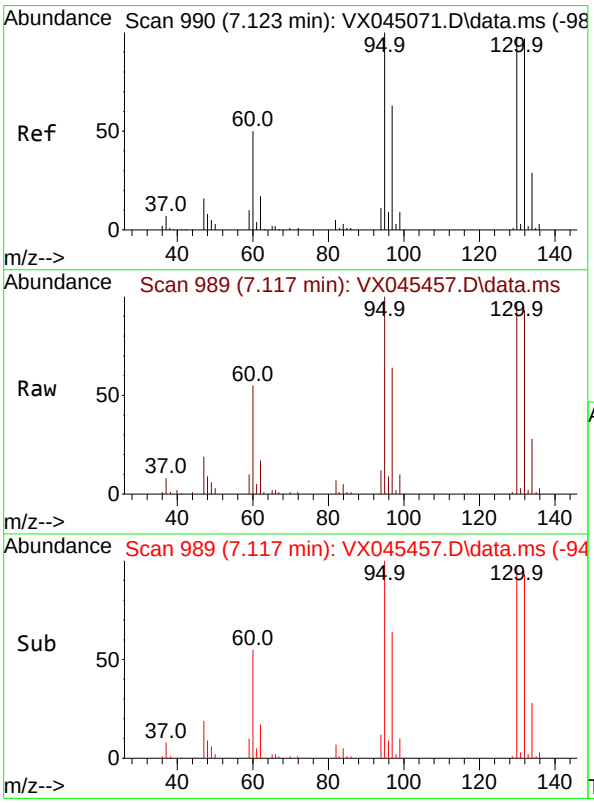
#43
Isopropyl Acetate
Concen: 56.230 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 154279

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.9	22.3
87	11.0	9.4	14.2

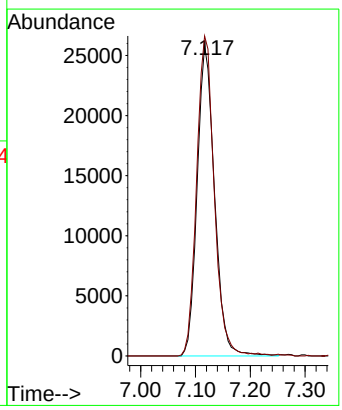


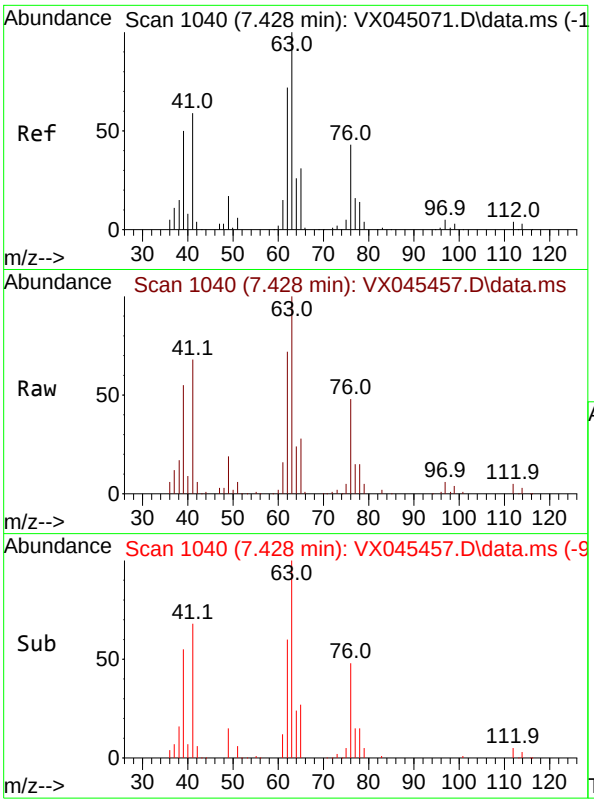


#44
Trichloroethene
Concen: 53.389 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:130 Resp: 57002

Ion	Ratio	Lower	Upper
130	100		
95	103.1	0.0	205.0



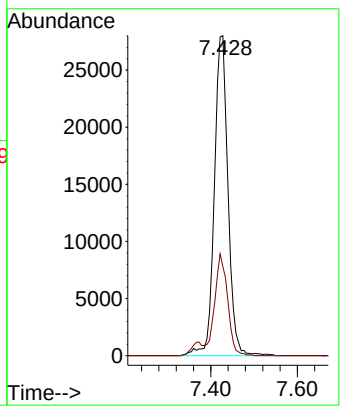


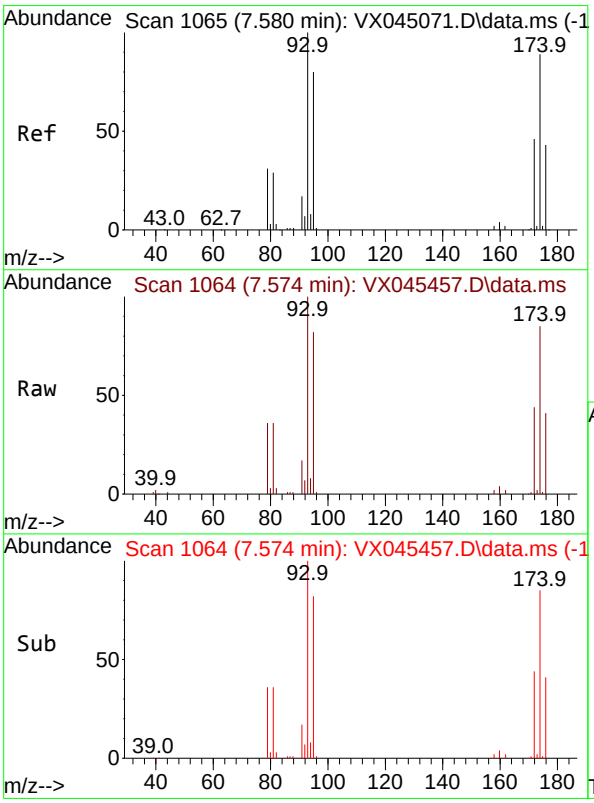
#45
1,2-Dichloropropane
Concen: 52.525 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 61406

Ion	Ratio	Lower	Upper
63	100		
65	27.9	24.7	37.1

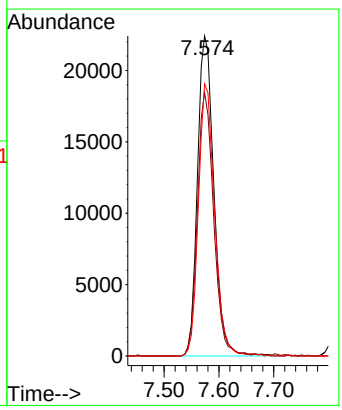


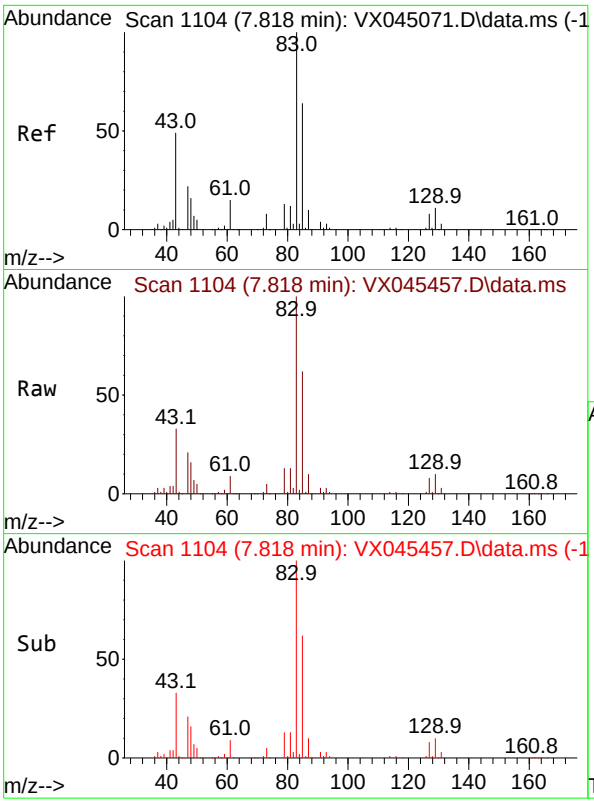


#46
Dibromomethane
Concen: 56.518 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 93 Resp: 46702

Ion	Ratio	Lower	Upper
93	100		
95	81.5	65.8	98.8
174	84.2	72.2	108.2



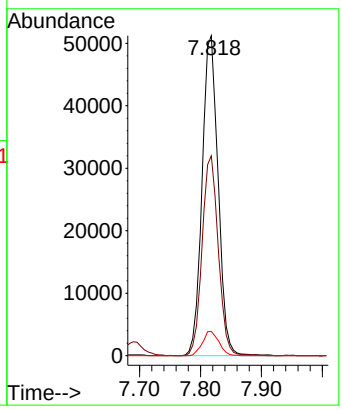


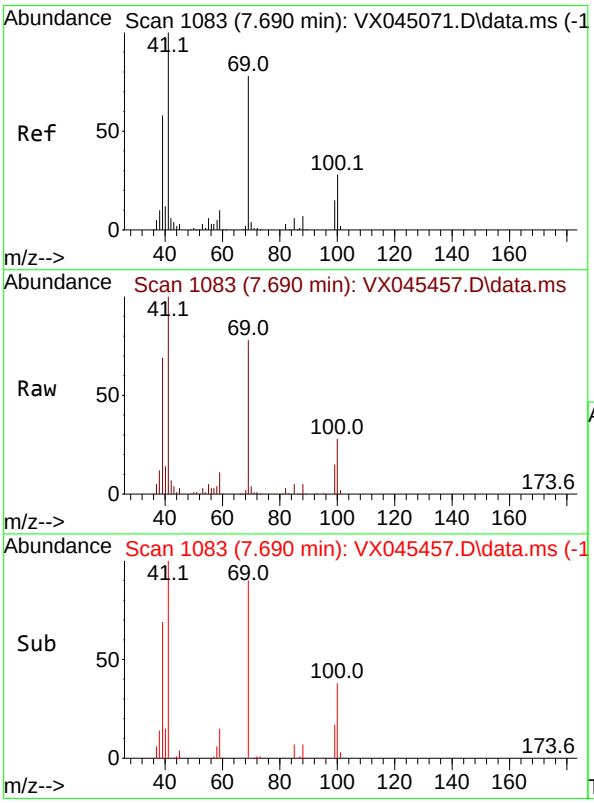
#47
Bromodichloromethane
Concen: 57.794 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 93673

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.1	76.7
127	7.5	6.4	9.6

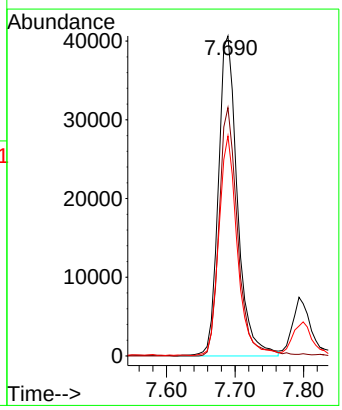


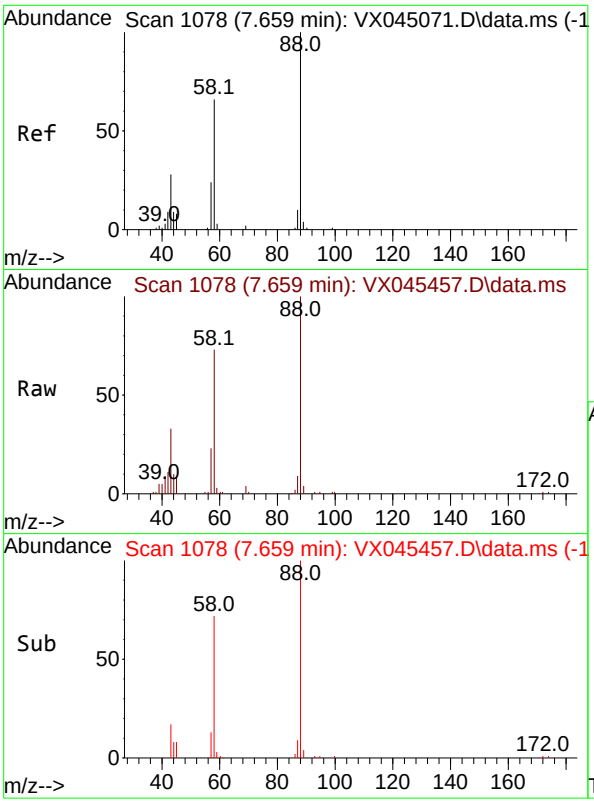


#48
Methyl methacrylate
Concen: 56.921 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 41 Resp: 78351

Ion	Ratio	Lower	Upper
41	100		
69	75.8	63.0	94.6
39	66.5	47.5	71.3



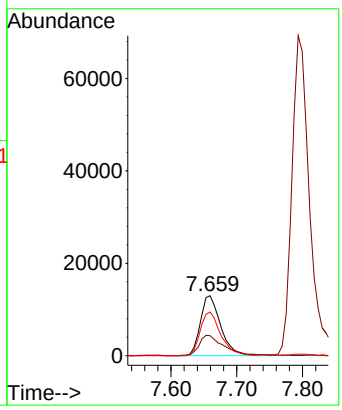


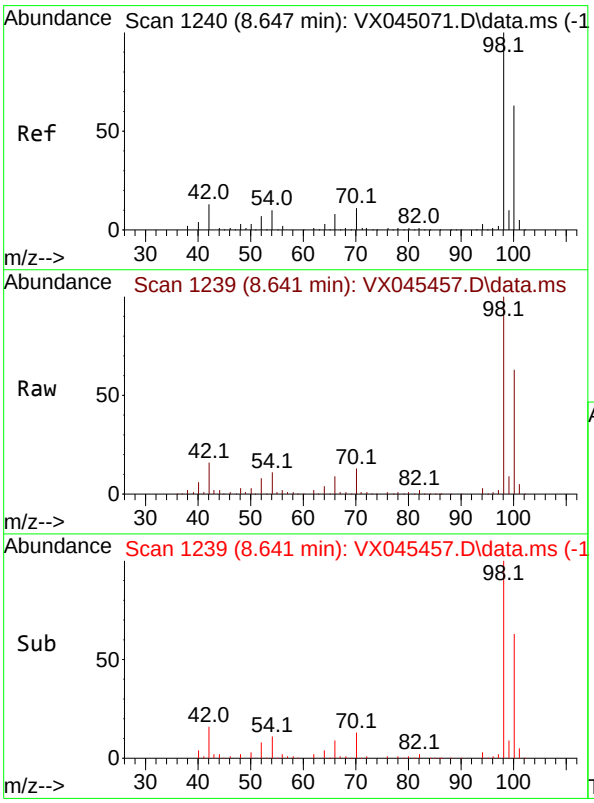
#49
1,4-Dioxane
Concen: 963.058 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 27963

Ion	Ratio	Lower	Upper
88	100		
43	41.3	28.7	43.1
58	73.0	55.8	83.8

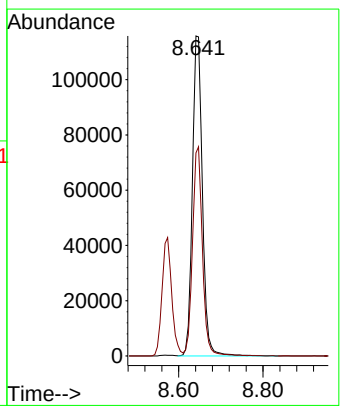


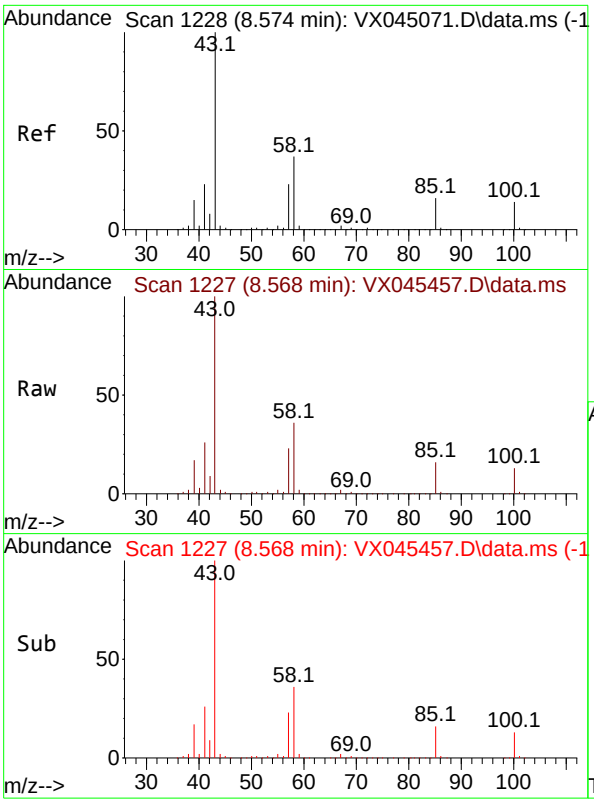


#50
Toluene-d8
Concen: 50.238 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 98 Resp: 191234

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.0	78.0



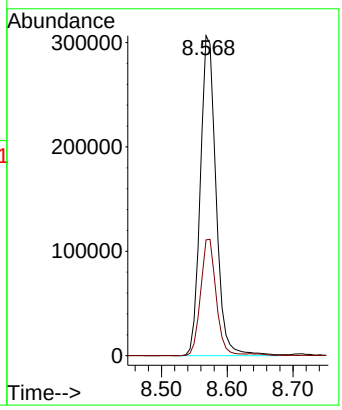


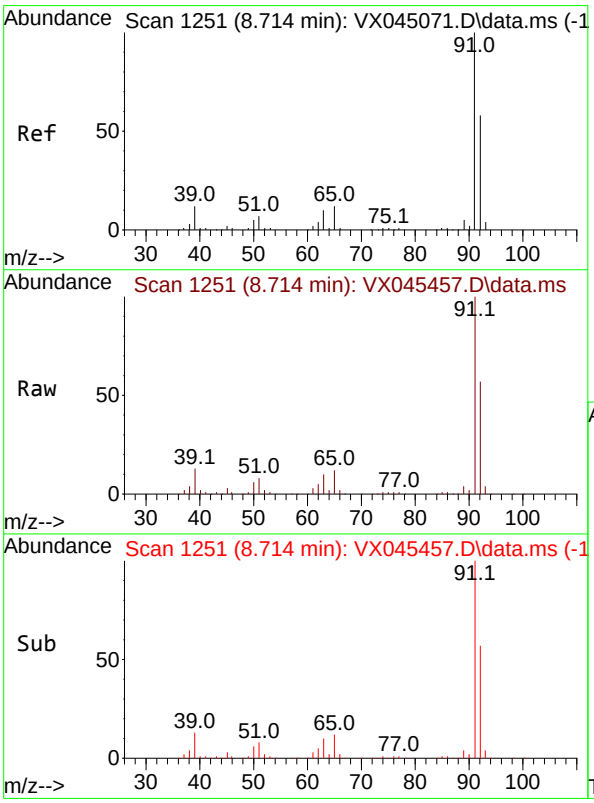
#51
4-Methyl-2-Pentanone
Concen: 276.344 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 509094

Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.2	43.8

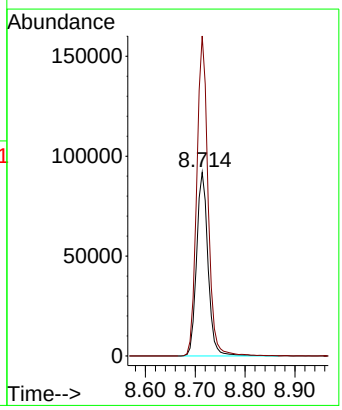


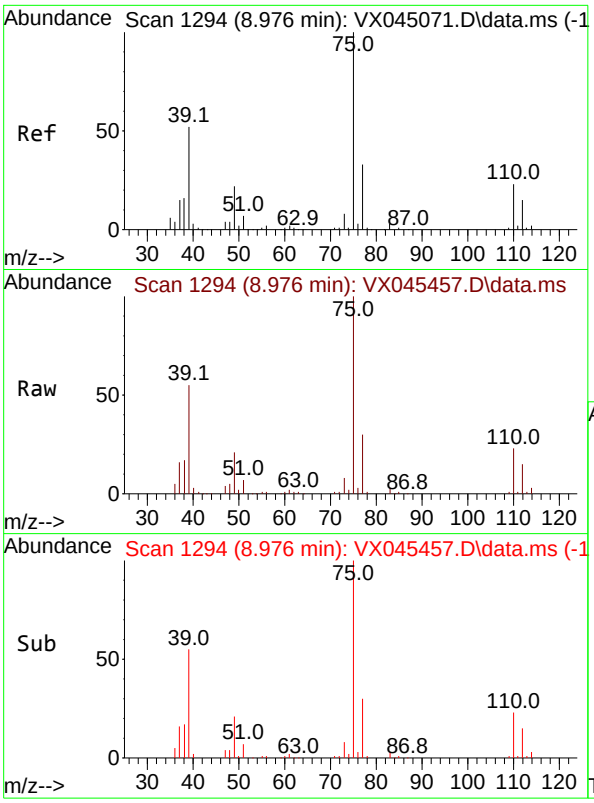


#52
Toluene
Concen: 54.725 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 92 Resp: 145998

Ion	Ratio	Lower	Upper
92	100		
91	172.7	138.9	208.3



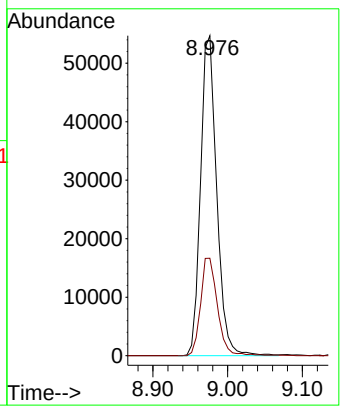


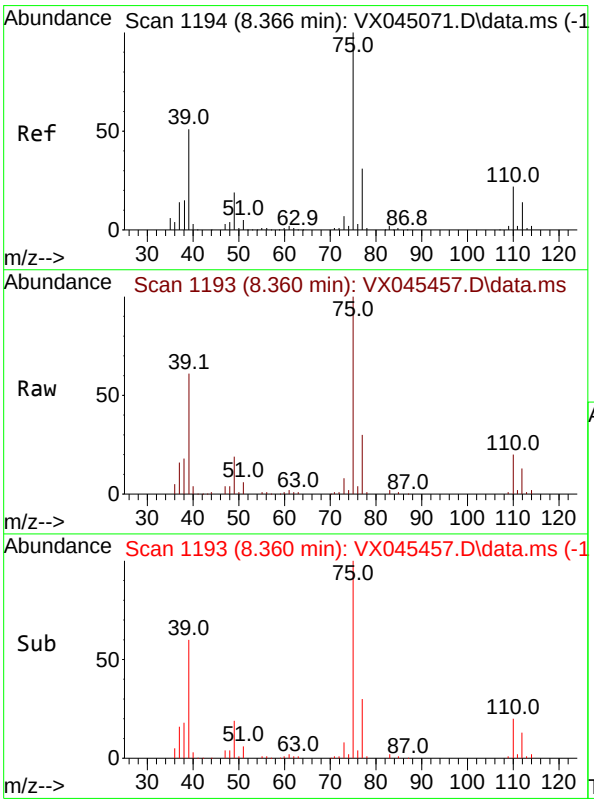
#53
t-1,3-Dichloropropene
Concen: 60.544 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 82038

Ion	Ratio	Lower	Upper
75	100		
77	30.5	26.5	39.7

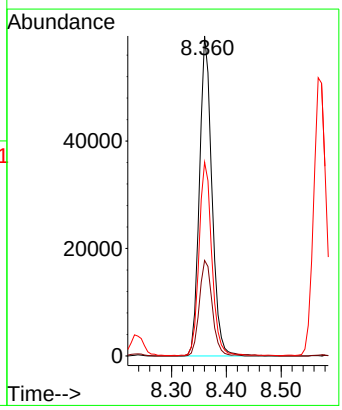


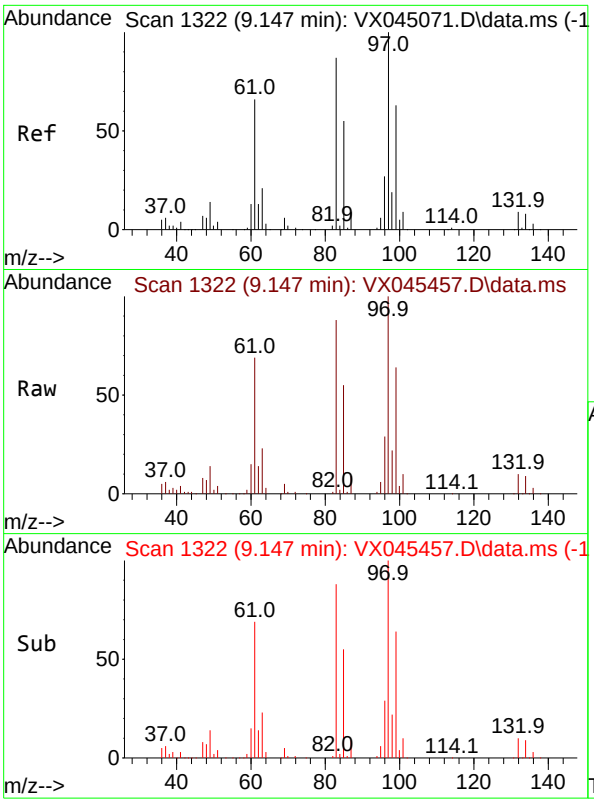


#54
cis-1,3-Dichloropropene
Concen: 59.591 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 94158

Ion	Ratio	Lower	Upper
75	100		
77	29.8	24.7	37.1
39	60.4	40.7	61.1



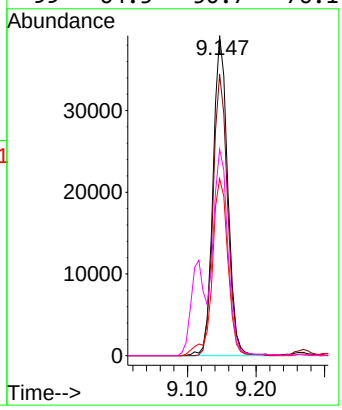


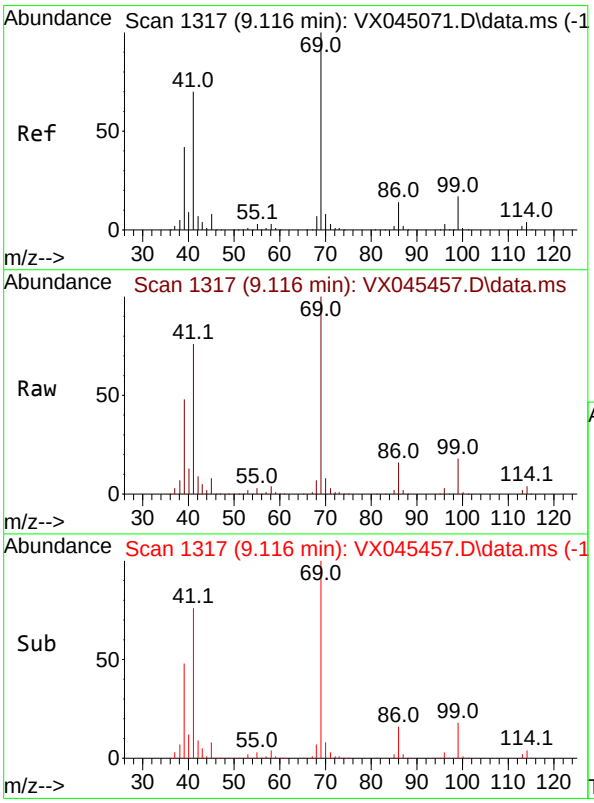
#55
1,1,2-Trichloroethane
Concen: 53.083 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 58300

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.4	104.2
85	55.3	44.1	66.1
99	64.5	50.7	76.1

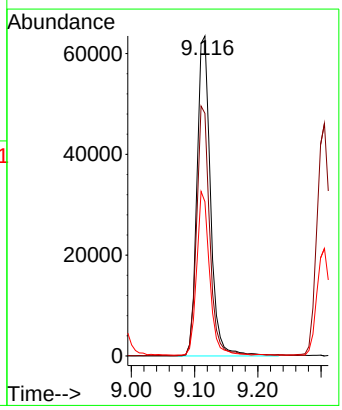


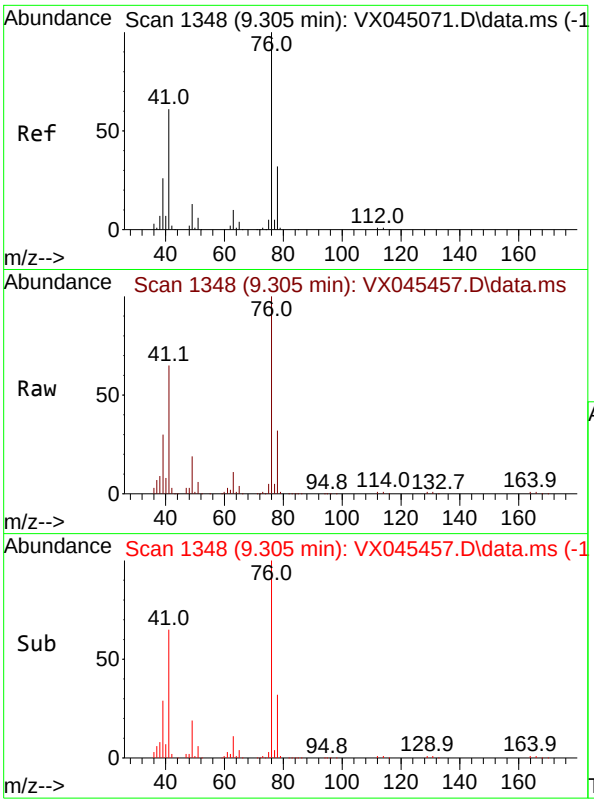


#56
Ethyl methacrylate
Concen: 56.682 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 69 Resp: 94629

Ion	Ratio	Lower	Upper
69	100		
41	75.7	57.0	85.4
39	48.7	34.2	51.4



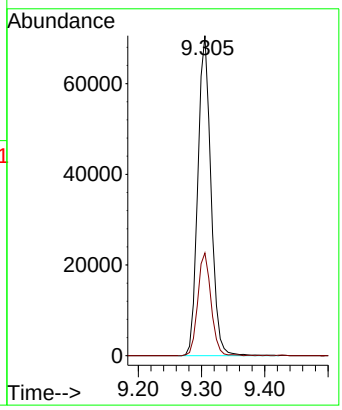


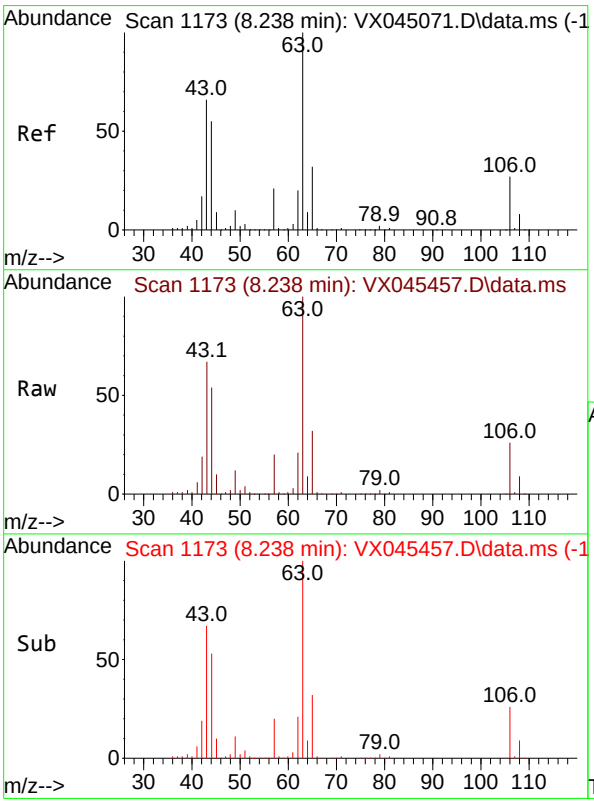
#57
1,3-Dichloropropane
Concen: 53.783 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 102224

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3

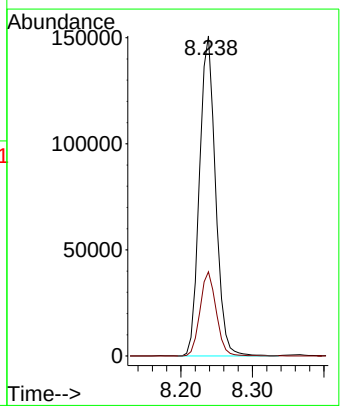


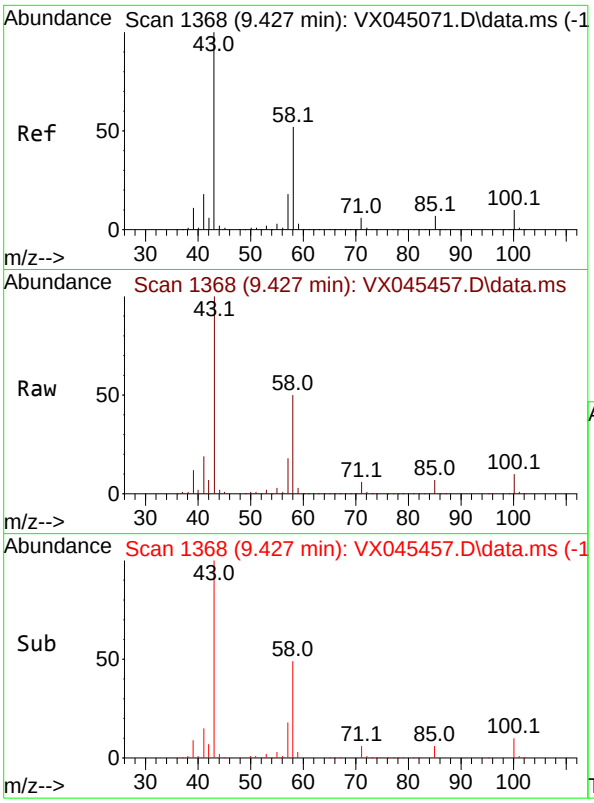


#58
2-Chloroethyl Vinyl ether
Concen: 288.833 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 63 Resp: 235219

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3



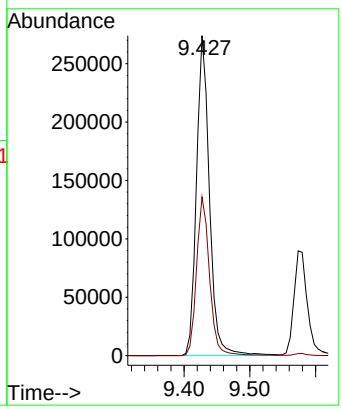


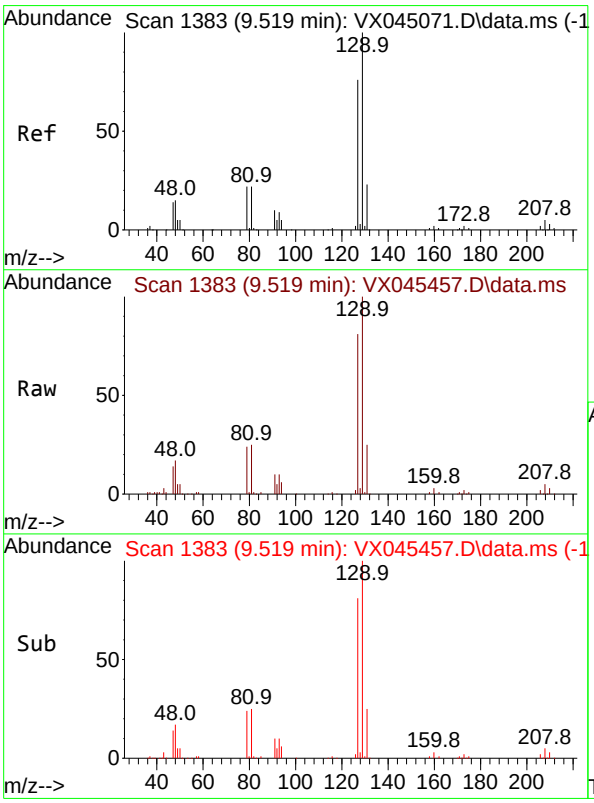
#59
2-Hexanone
Concen: 280.504 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 374413

Ion	Ratio	Lower	Upper
43	100		
58	49.8	25.9	77.6

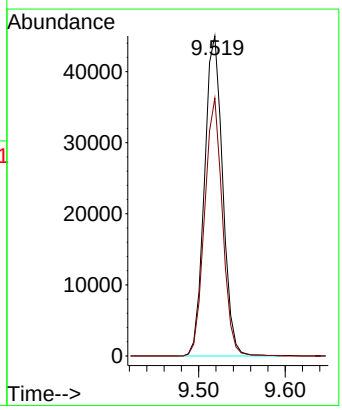


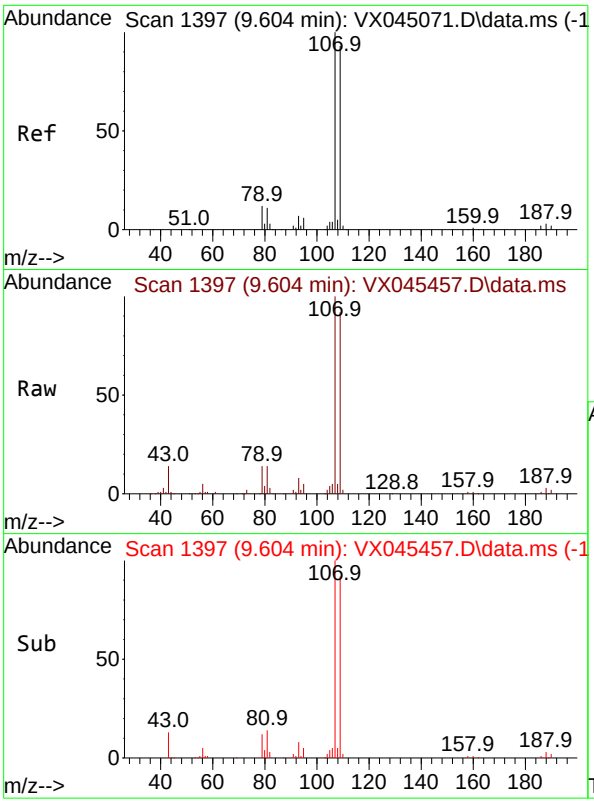


#60
Dibromochloromethane
Concen: 57.231 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:129 Resp: 65721

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5



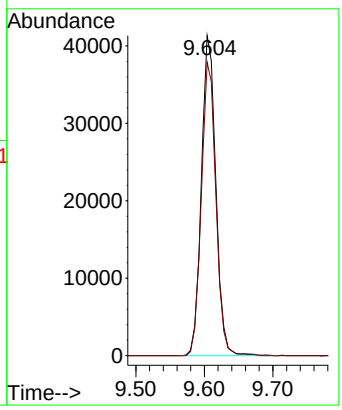


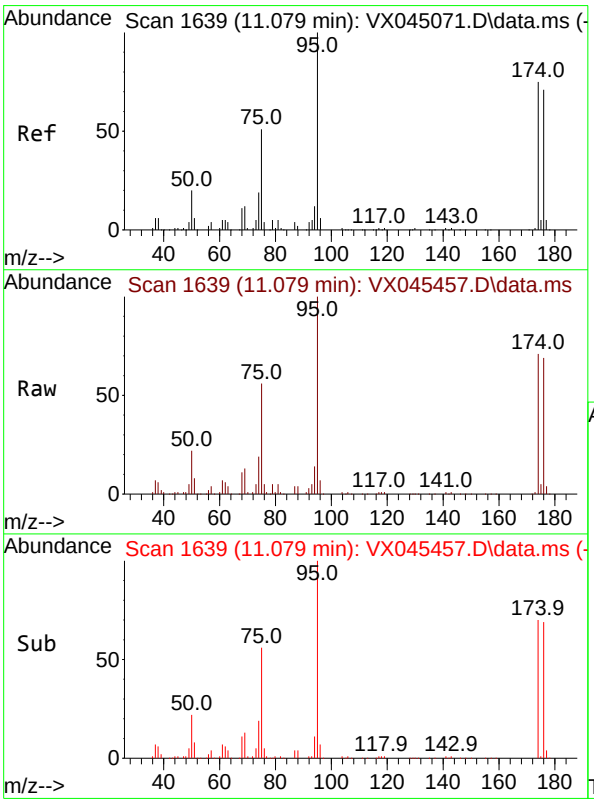
#61
1,2-Dibromoethane
Concen: 55.319 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 60652

Ion	Ratio	Lower	Upper
107	100		
109	92.4	76.1	114.1

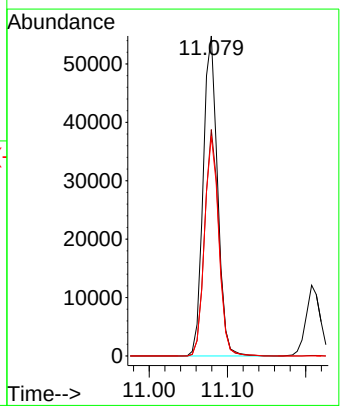


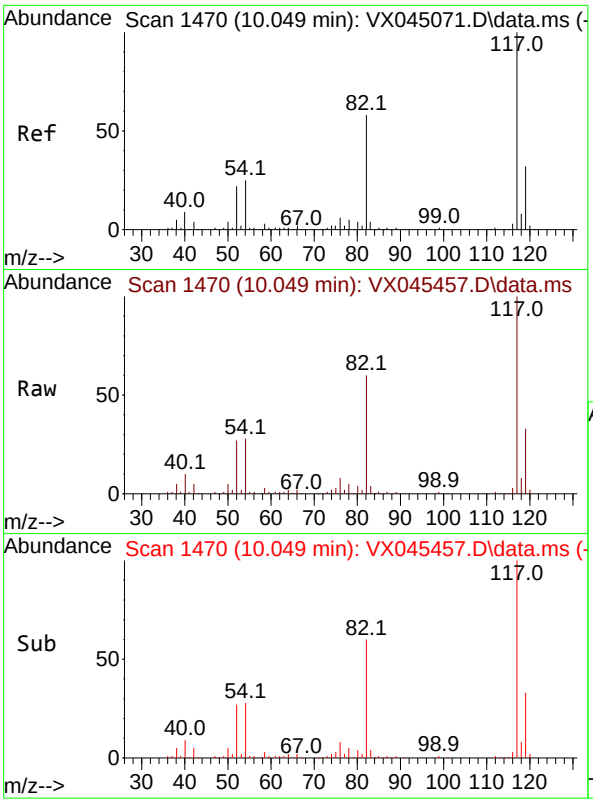


#62
4-Bromofluorobenzene
Concen: 55.238 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 95 Resp: 69676

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	148.2
176	68.1	0.0	141.4



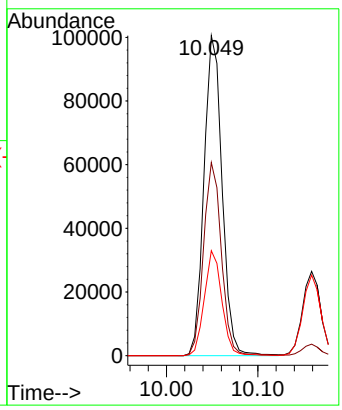


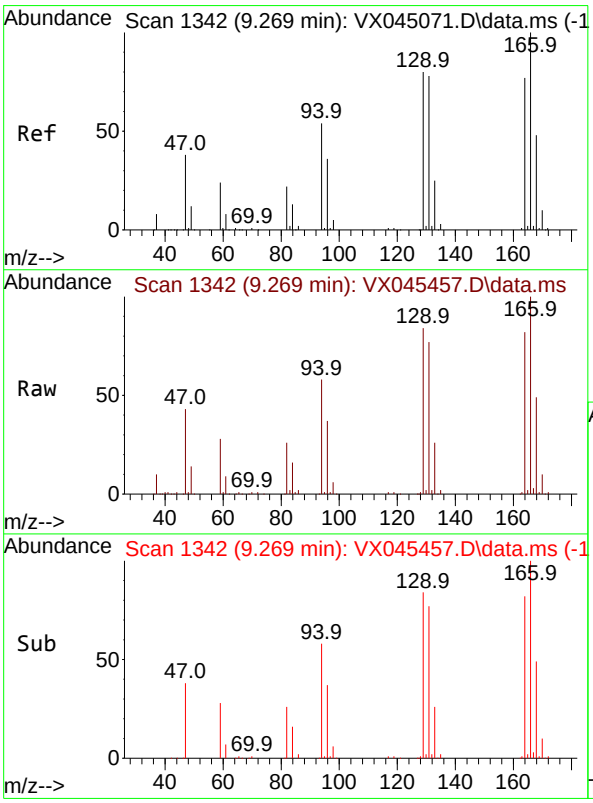
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 138010

Ion	Ratio	Lower	Upper
117	100		
82	60.4	46.3	69.5
119	32.8	25.7	38.5

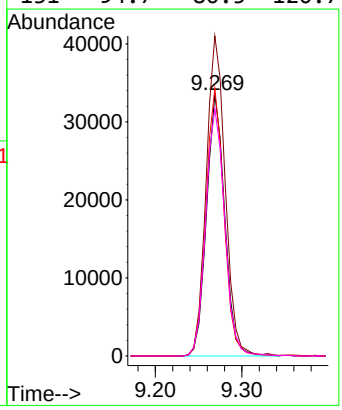


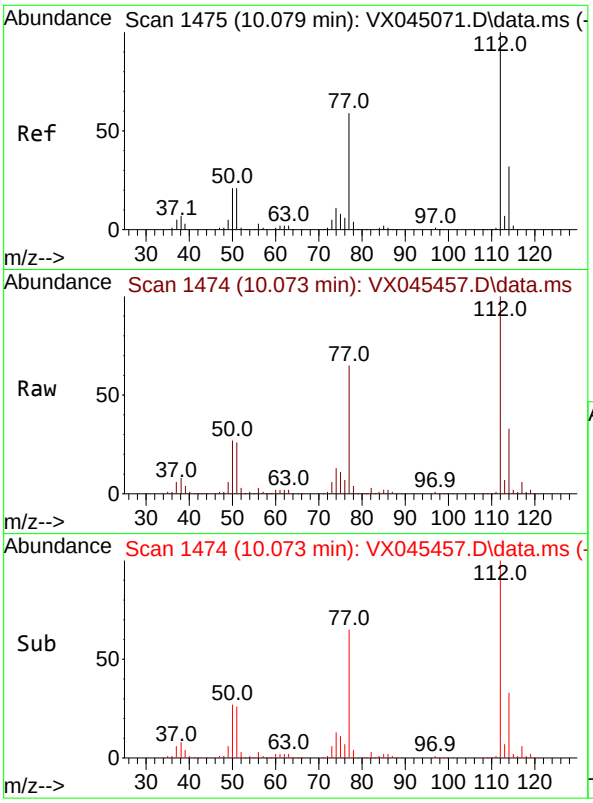


#64
Tetrachloroethene
Concen: 55.374 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:164 Resp: 48945

Ion	Ratio	Lower	Upper
164	100		
166	122.6	103.6	155.4
129	102.5	82.7	124.1
131	94.7	80.5	120.7



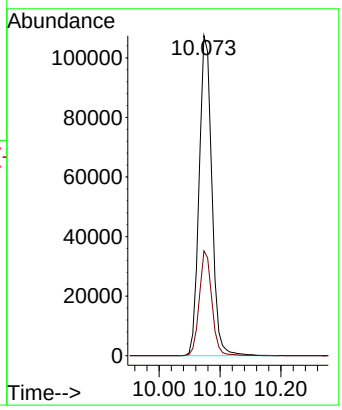


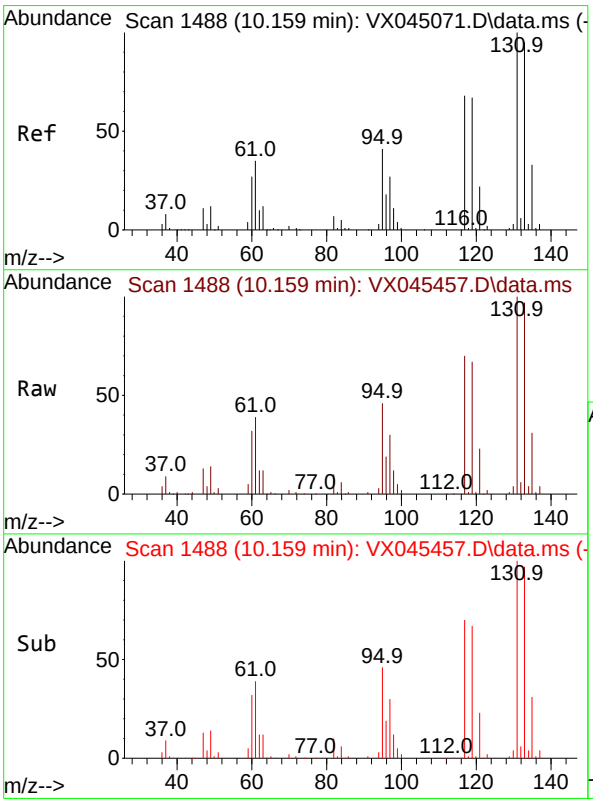
#65
Chlorobenzene
Concen: 53.491 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 156208

Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.0	39.0

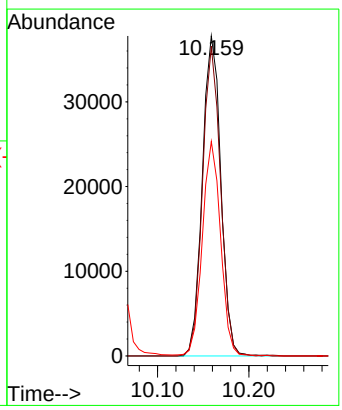


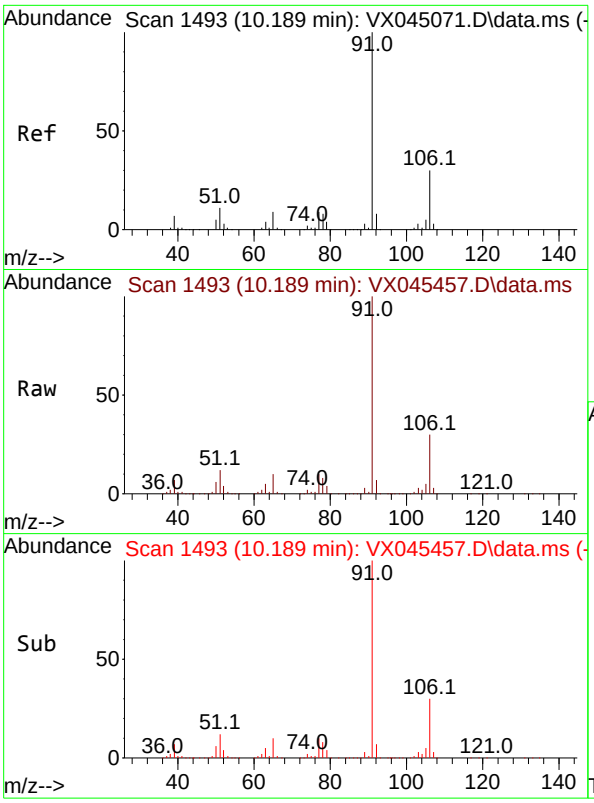


#66
1,1,1,2-Tetrachloroethane
Concen: 54.444 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:131 Resp: 52947

Ion	Ratio	Lower	Upper
131	100		
133	94.7	48.6	145.9
119	66.1	33.9	101.7



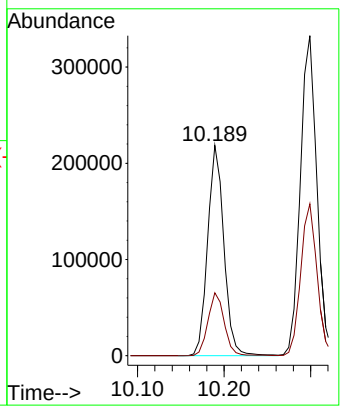


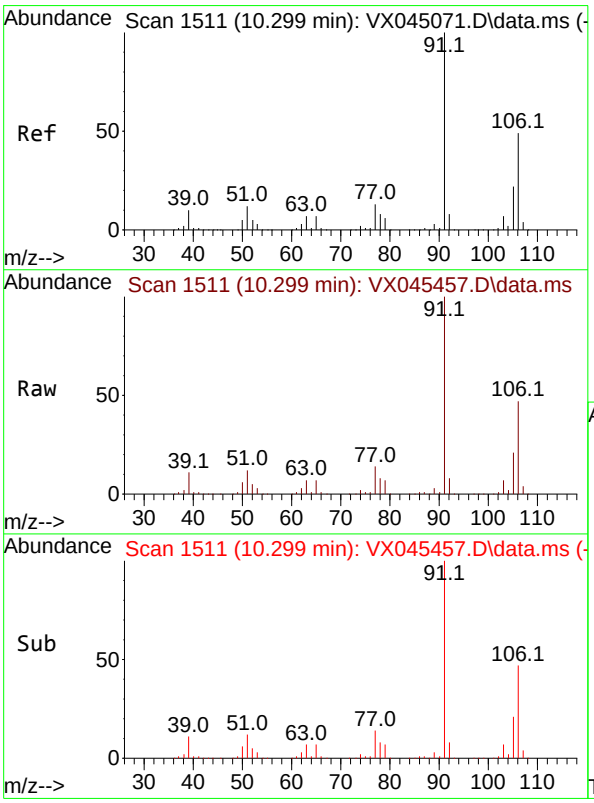
#67
Ethyl Benzene
Concen: 55.966 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 284774

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

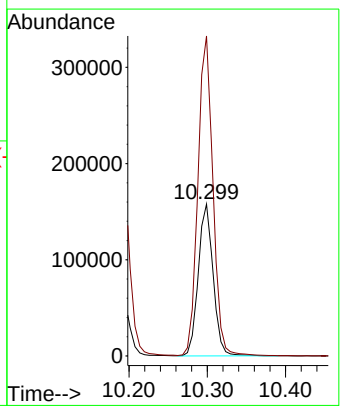


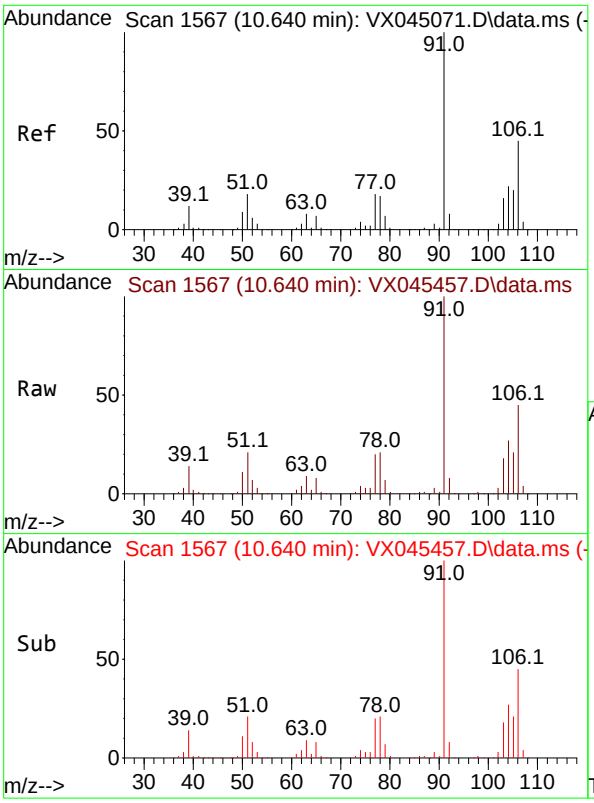


#68
m/p-Xylenes
Concen: 111.797 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:106 Resp: 208248

Ion	Ratio	Lower	Upper
106	100		
91	213.5	165.4	248.0



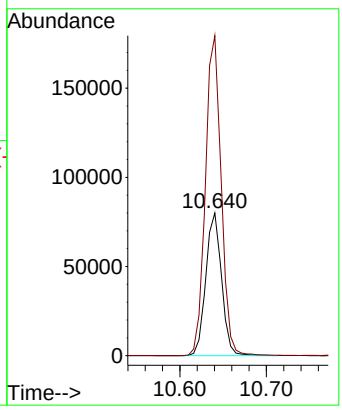


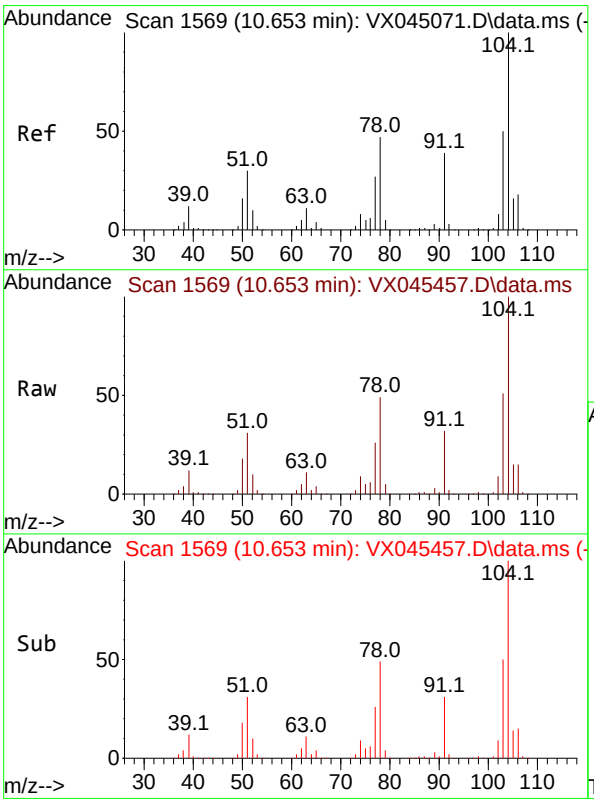
#69
o-Xylene
Concen: 53.800 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 101072

Ion	Ratio	Lower	Upper
106	100		
91	225.4	109.9	329.6

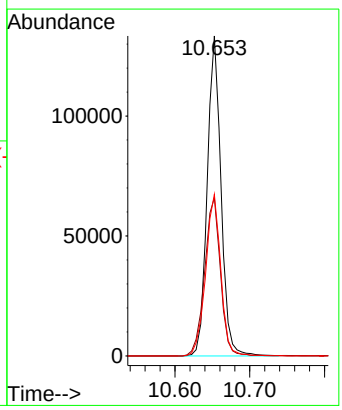


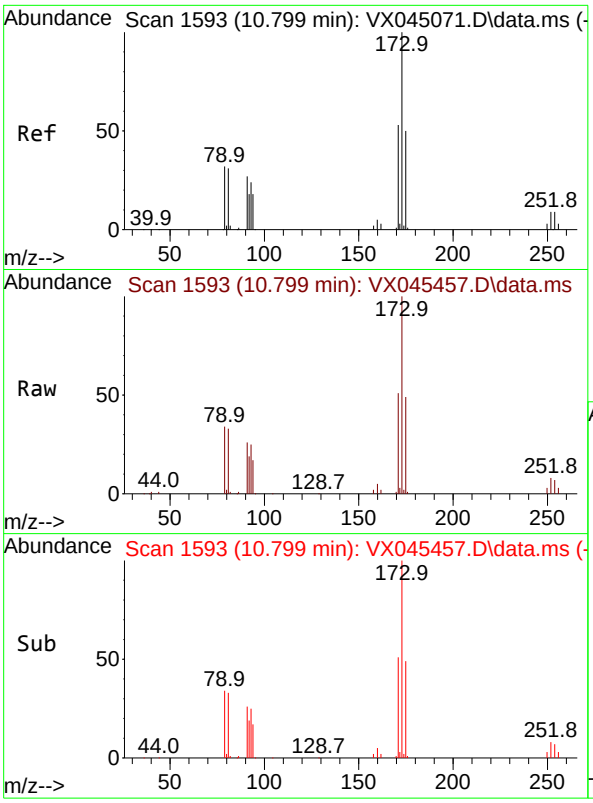


#70
Styrene
Concen: 56.260 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:104 Resp: 171021

Ion	Ratio	Lower	Upper
104	100		
78	56.7	42.2	63.4
103	55.5	43.8	65.8



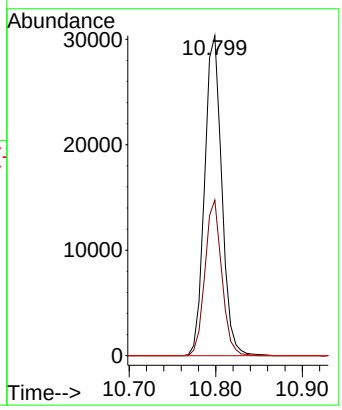


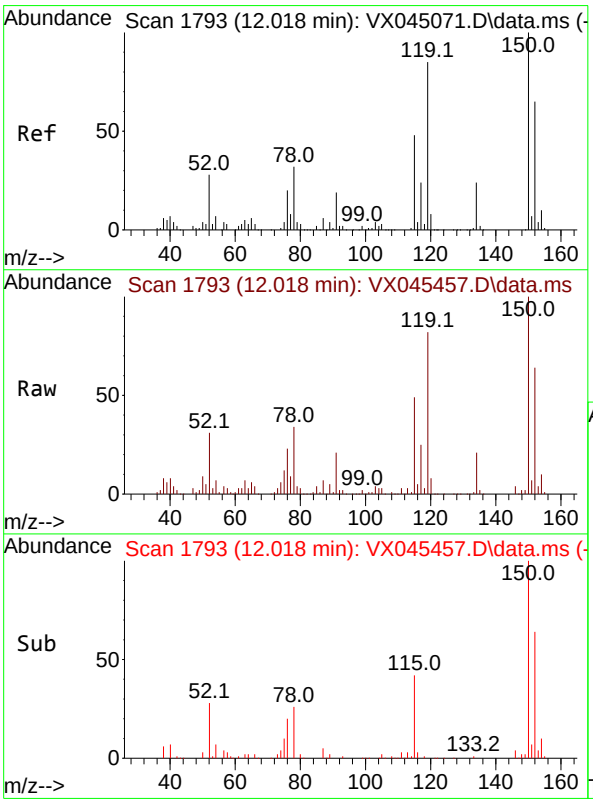
#71
Bromoform
Concen: 56.960 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 41772

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.6
254	0.0	0.0	0.0

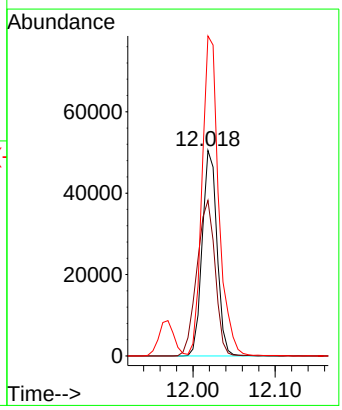


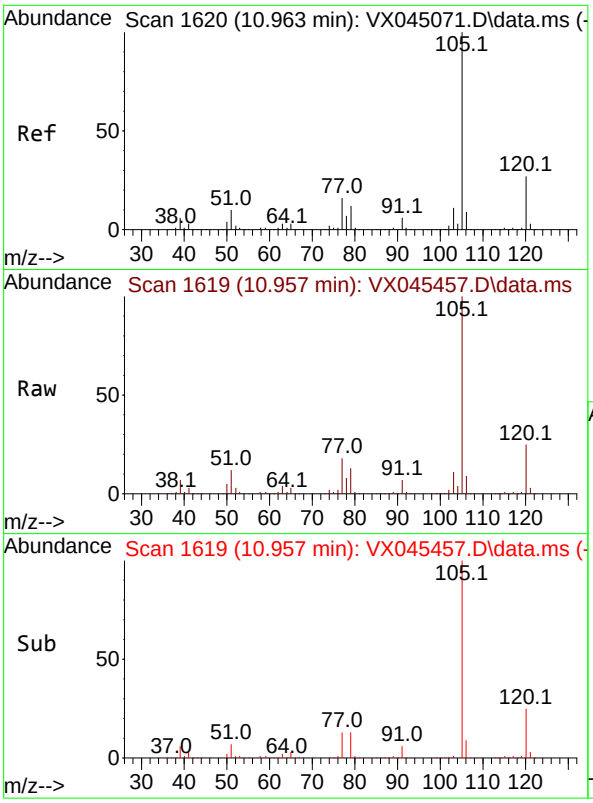


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:152 Resp: 63053

Ion	Ratio	Lower	Upper
152	100		
115	93.2	44.2	132.6
150	175.3	0.0	349.0



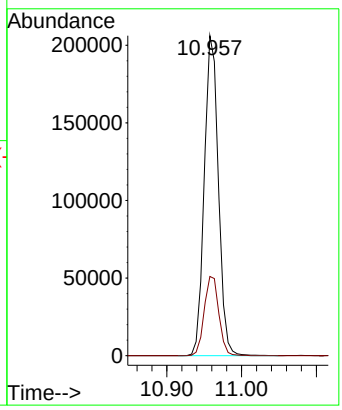


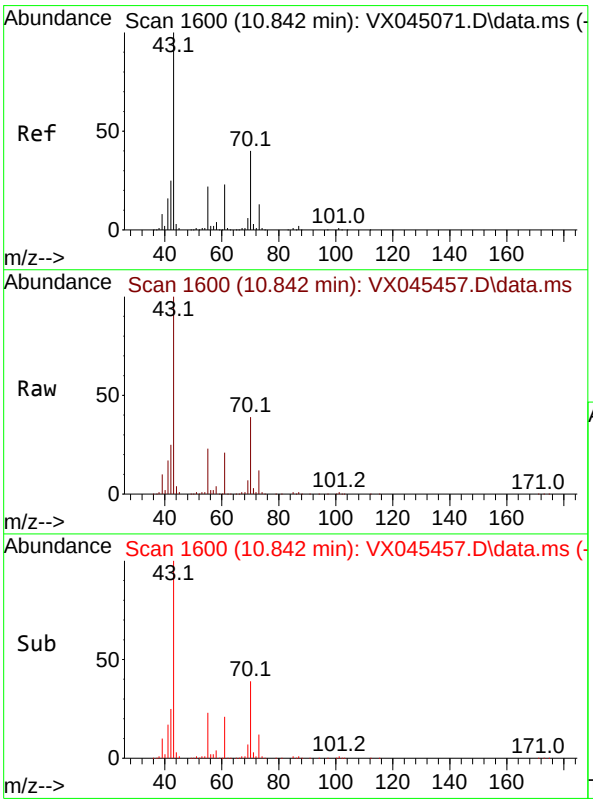
#73
Isopropylbenzene
Concen: 54.796 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 269678

Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.2	39.5

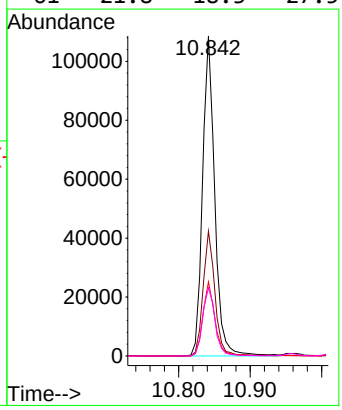


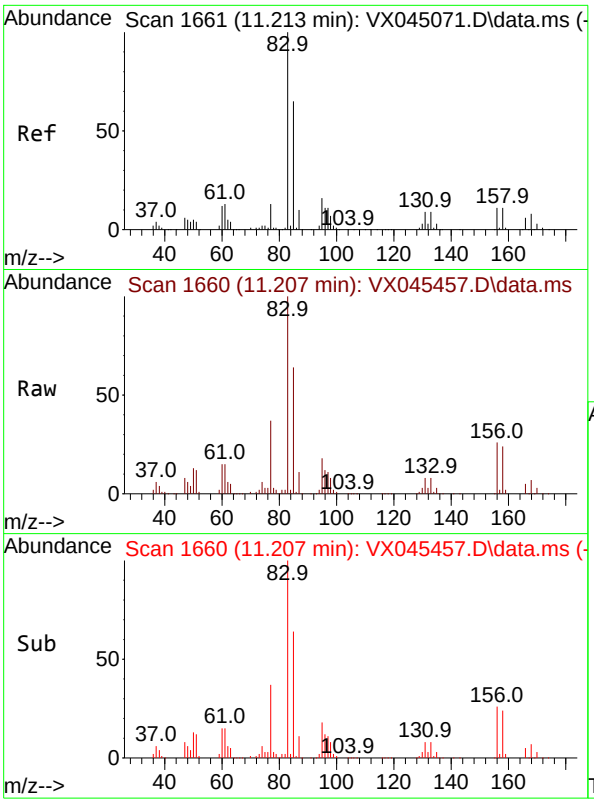


#74
N-amyl acetate
Concen: 55.694 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 43 Resp: 128614

Ion	Ratio	Lower	Upper
43	100		
70	38.1	31.8	47.6
55	22.9	18.3	27.5
61	21.8	18.3	27.5



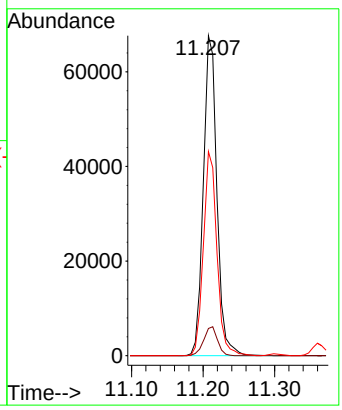


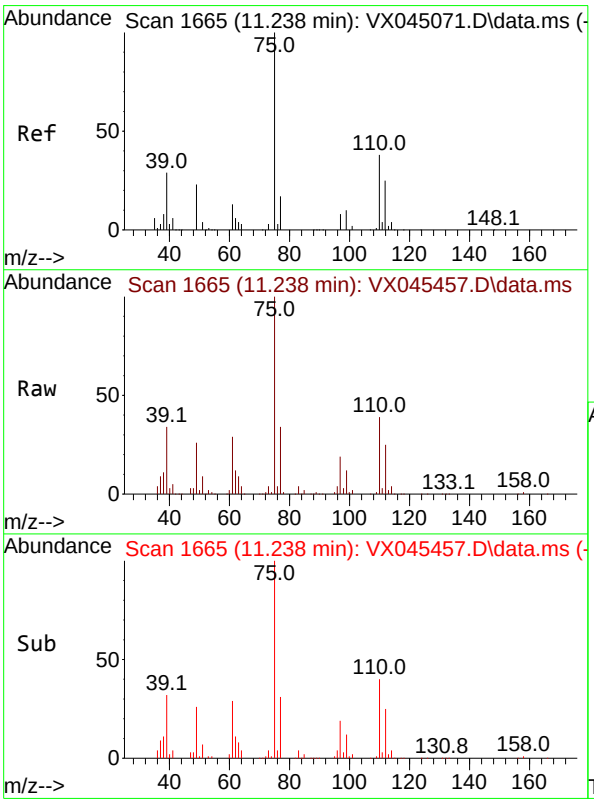
#75
1,1,2,2-Tetrachloroethane
Concen: 49.335 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 89098

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	63.7	31.7	95.1

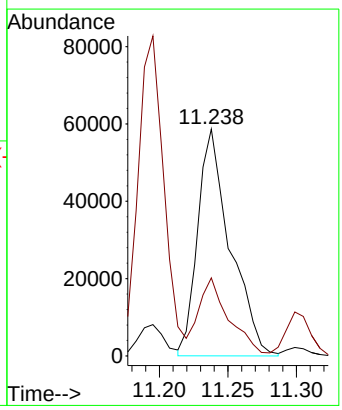


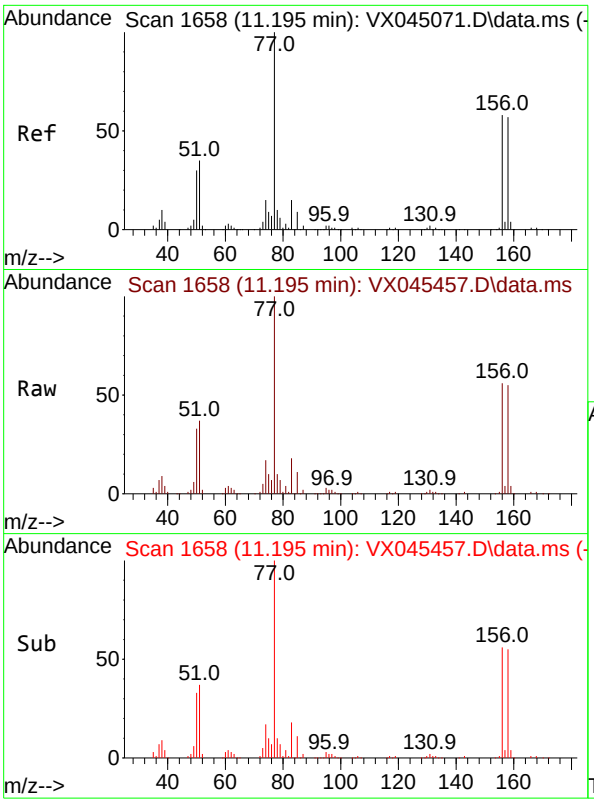


#76
1,2,3-Trichloropropane
Concen: 65.981 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 96832

Ion	Ratio	Lower	Upper
75	100		
77	32.2	20.7	62.1



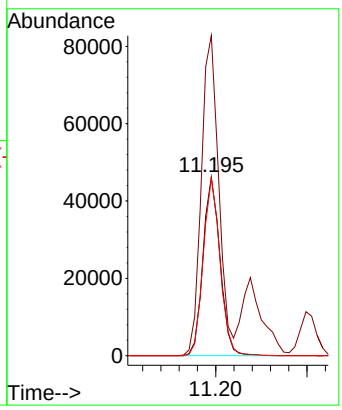


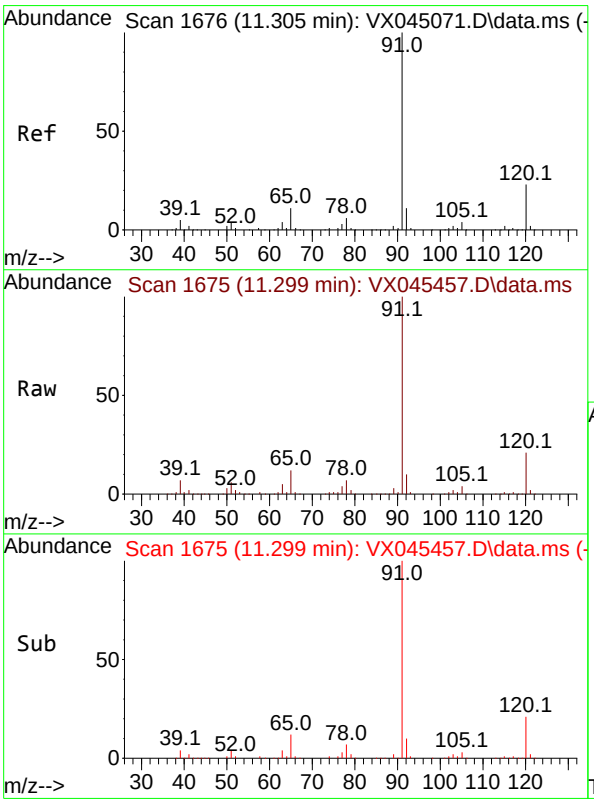
#77
Bromobenzene
Concen: 51.354 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 59631

Ion	Ratio	Lower	Upper
156	100		
77	183.3	85.8	257.4
158	98.3	48.4	145.2

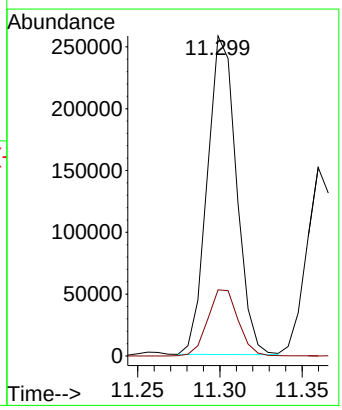


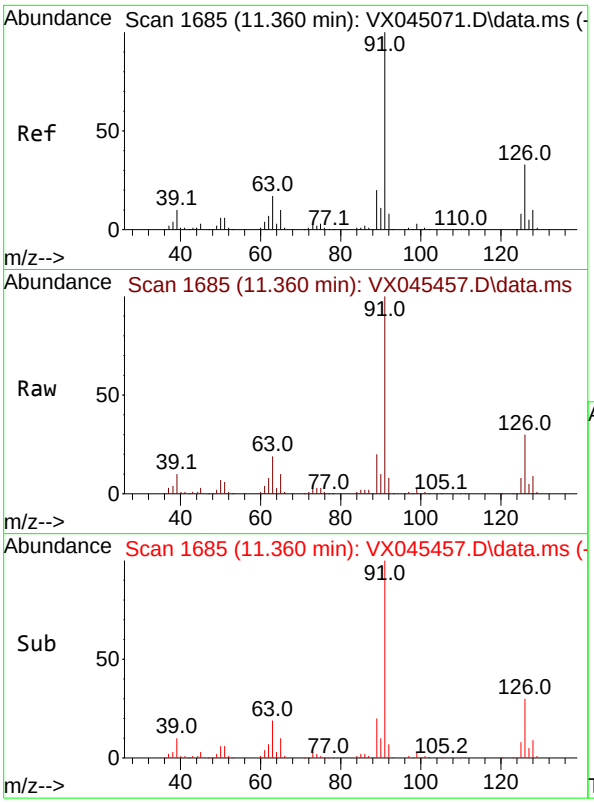


#78
n-propylbenzene
Concen: 57.179 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 91 Resp: 317882

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.2	33.6



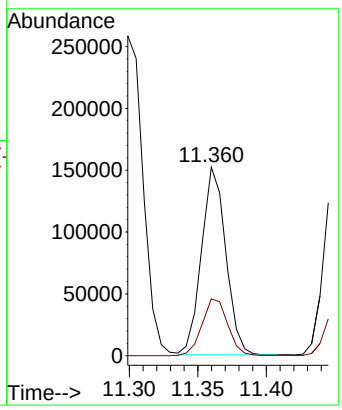


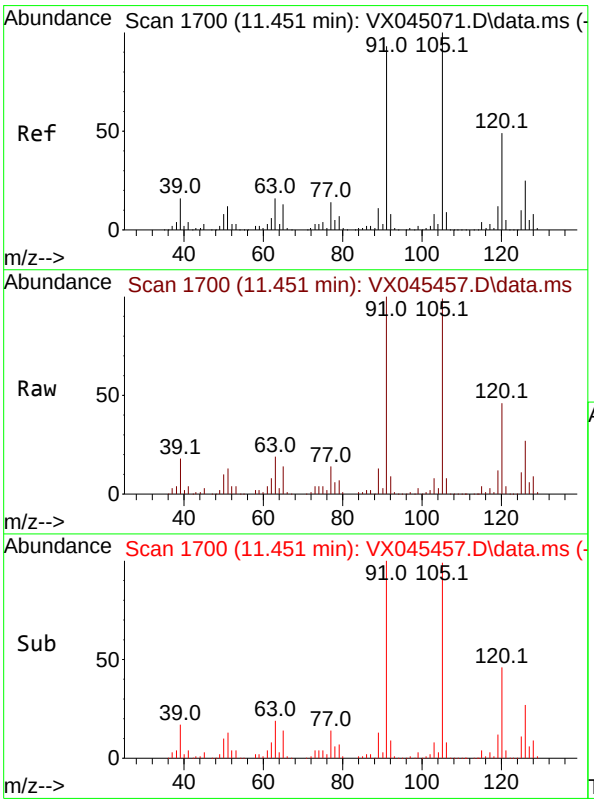
#79
2-Chlorotoluene
Concen: 53.055 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 187848

Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.4	49.4

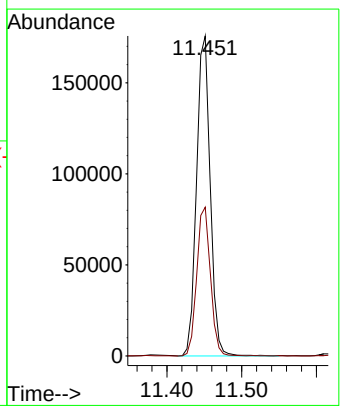


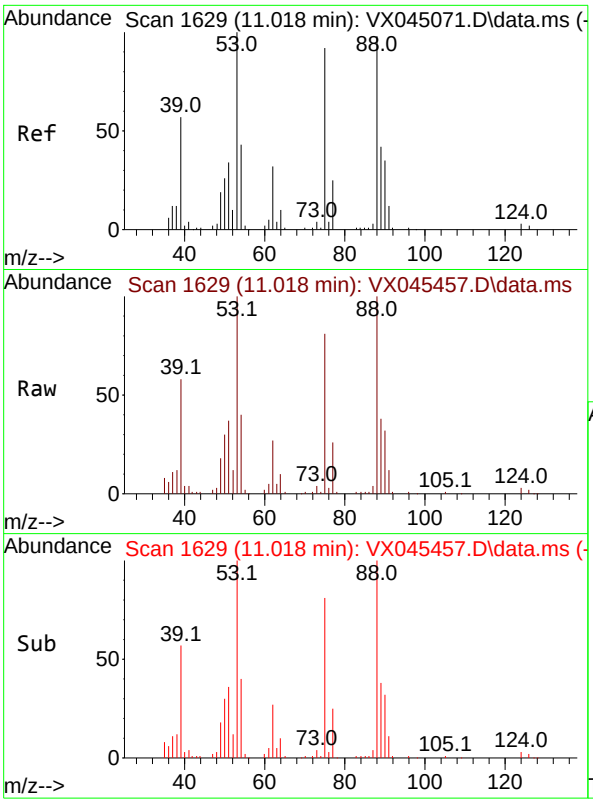


#80
1,3,5-Trimethylbenzene
Concen: 56.020 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:105 Resp: 222923

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.1	72.2



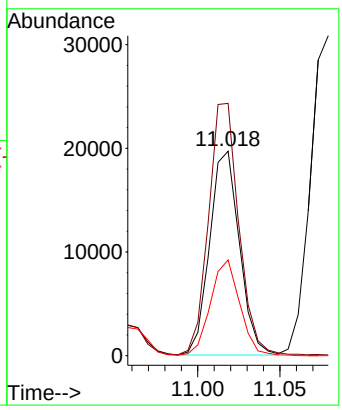


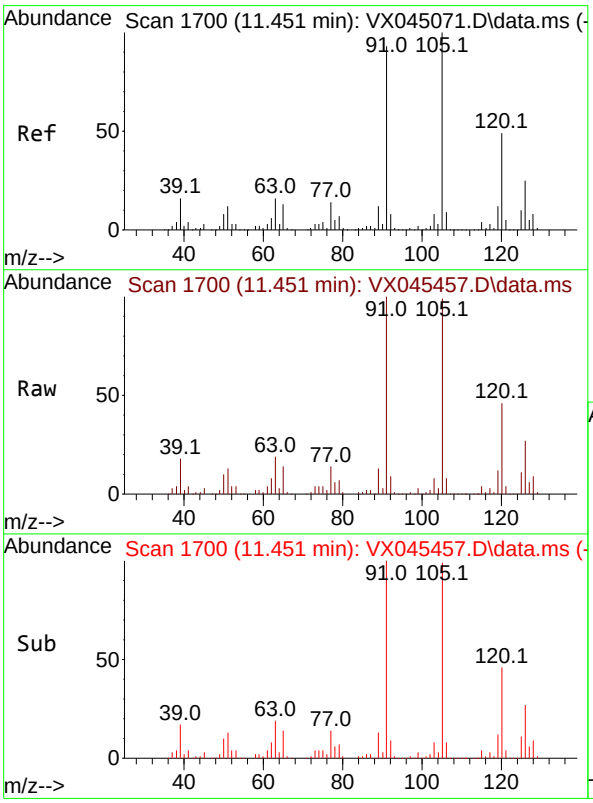
#81
trans-1,4-Dichloro-2-butene
Concen: 57.854 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 24810

Ion	Ratio	Lower	Upper
75	100		
53	126.9	88.5	132.7
89	46.2	36.2	54.4

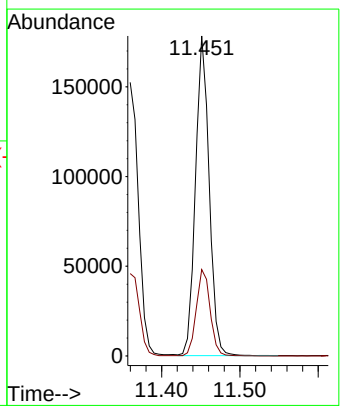


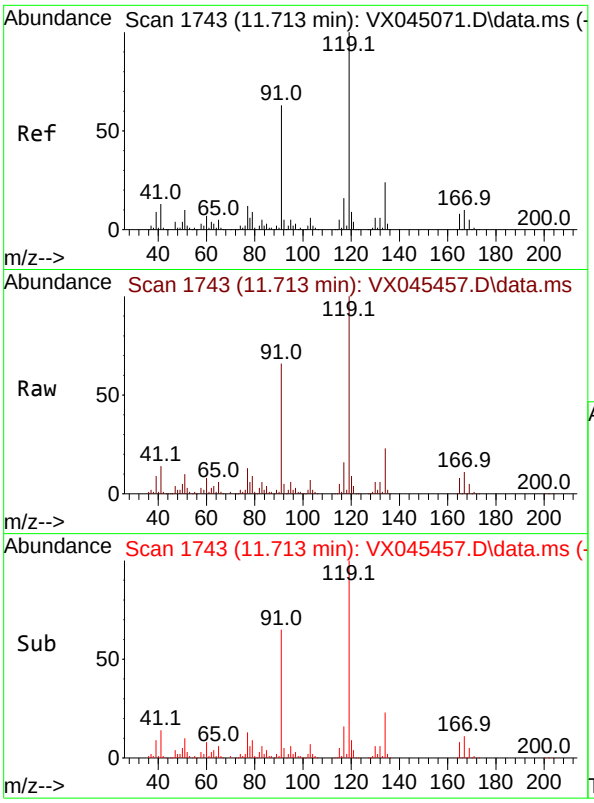


#82
4-Chlorotoluene
Concen: 56.197 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 91 Resp: 216854

Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.1	42.4



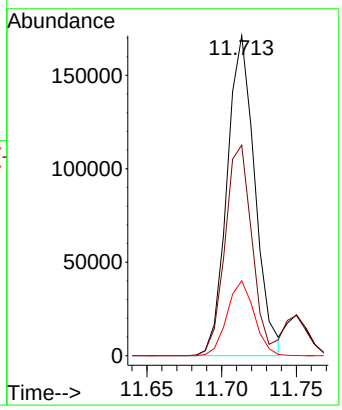


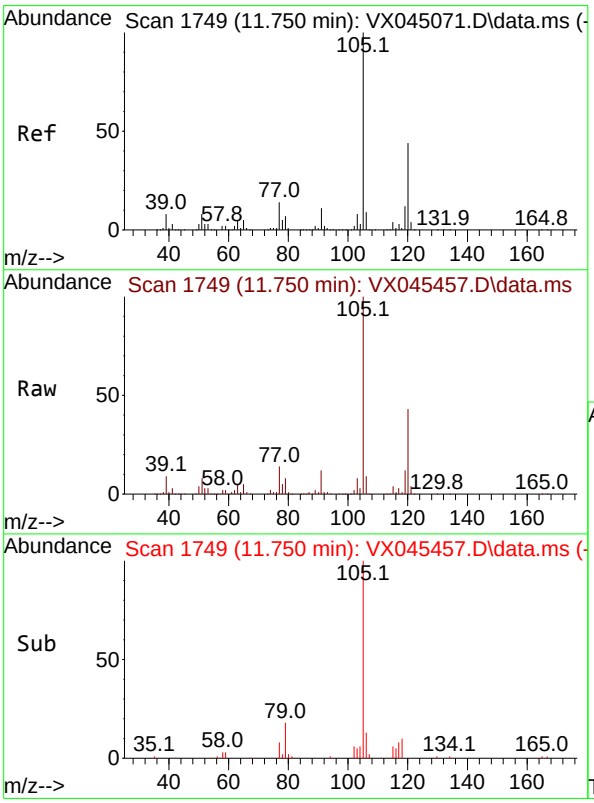
#83
tert-Butylbenzene
Concen: 54.134 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 221337

Ion	Ratio	Lower	Upper
119	100		
91	63.5	30.7	92.1
134	22.8	11.7	35.0

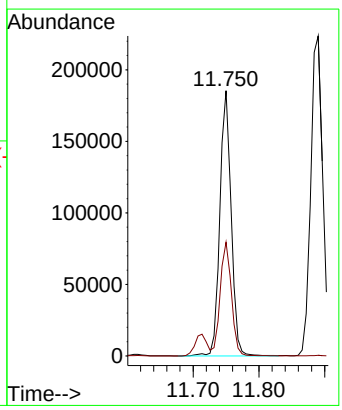


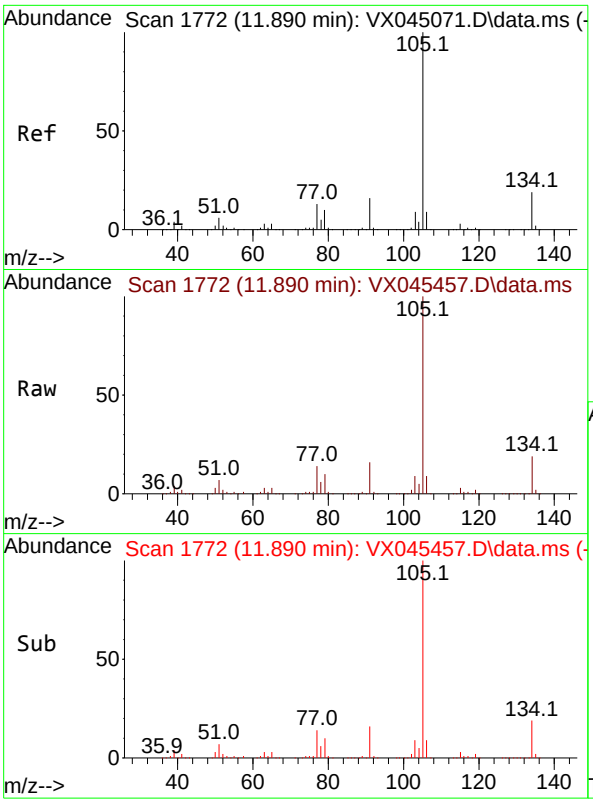


#84
1,2,4-Trimethylbenzene
Concen: 55.448 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:105 Resp: 222016

Ion	Ratio	Lower	Upper
105	100		
120	42.8	22.1	66.1



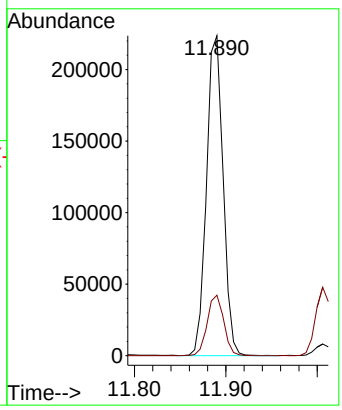


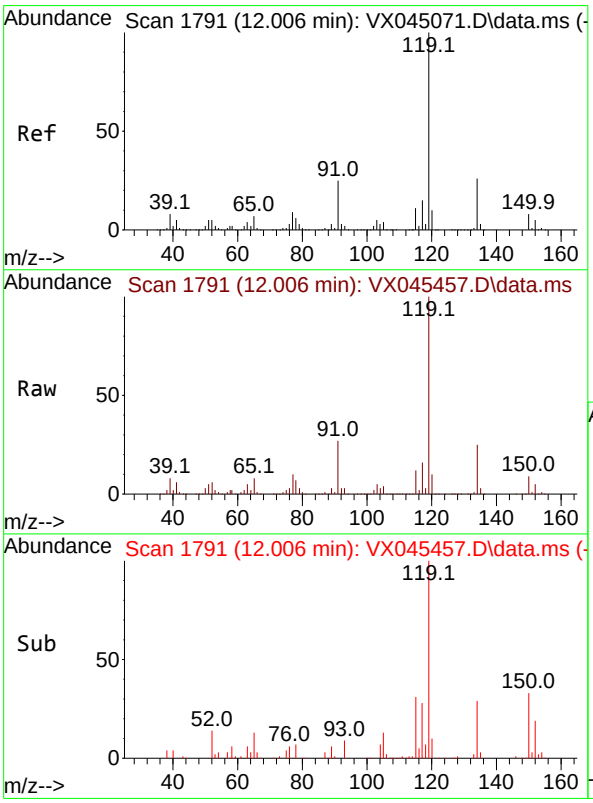
#85
sec-Butylbenzene
Concen: 57.451 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 281382

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.4

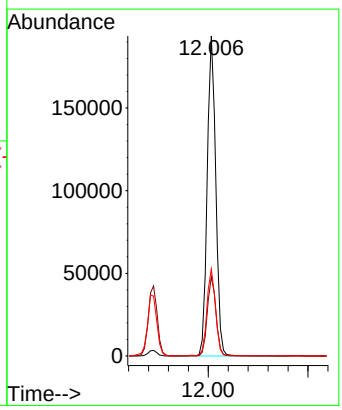


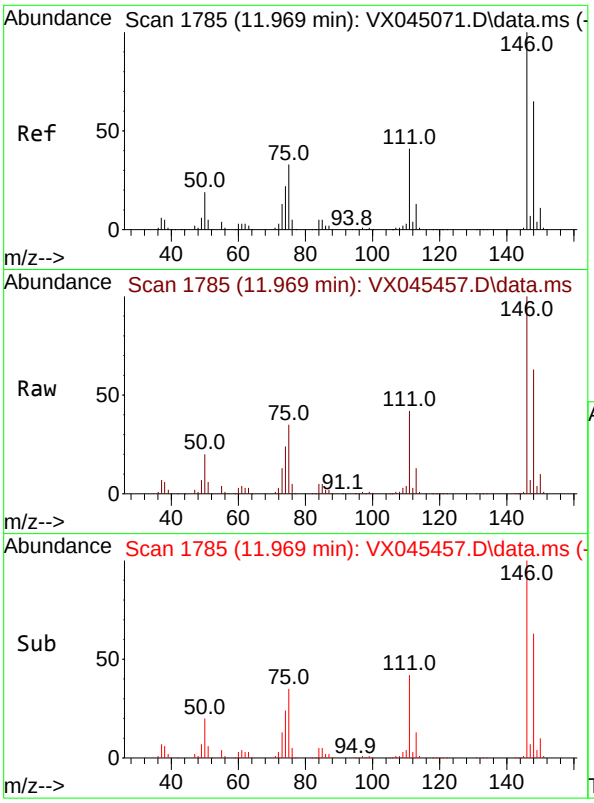


#86
p-Isopropyltoluene
Concen: 58.167 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:119 Resp: 230228

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.9	38.6
91	27.1	12.7	38.0



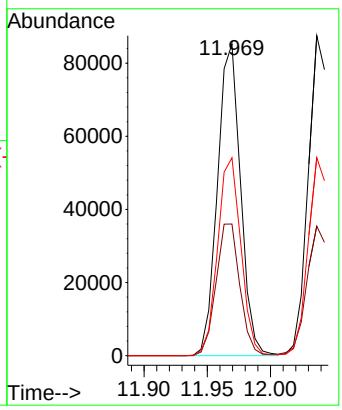


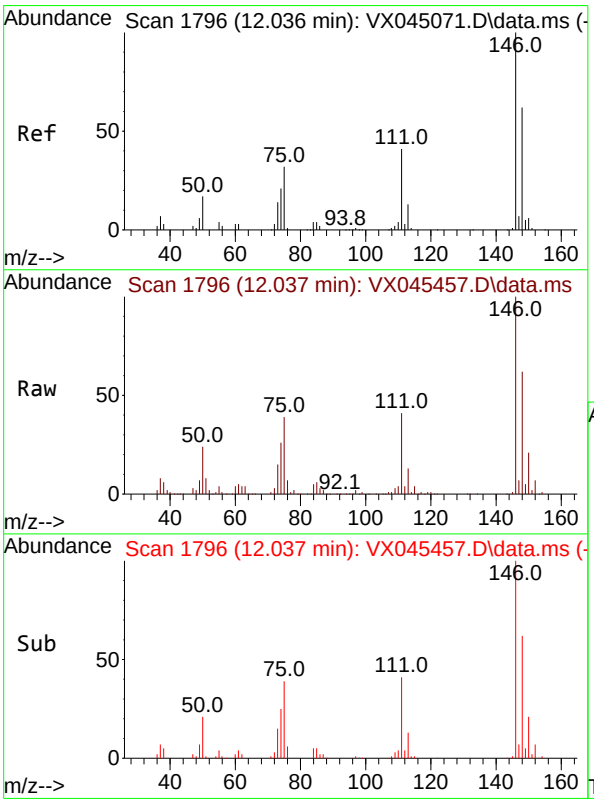
#87
1,3-Dichlorobenzene
Concen: 52.211 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 108155

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.4
148	64.0	31.9	95.7

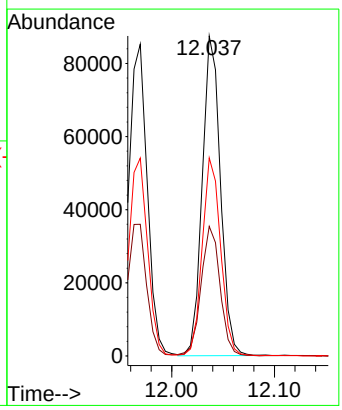


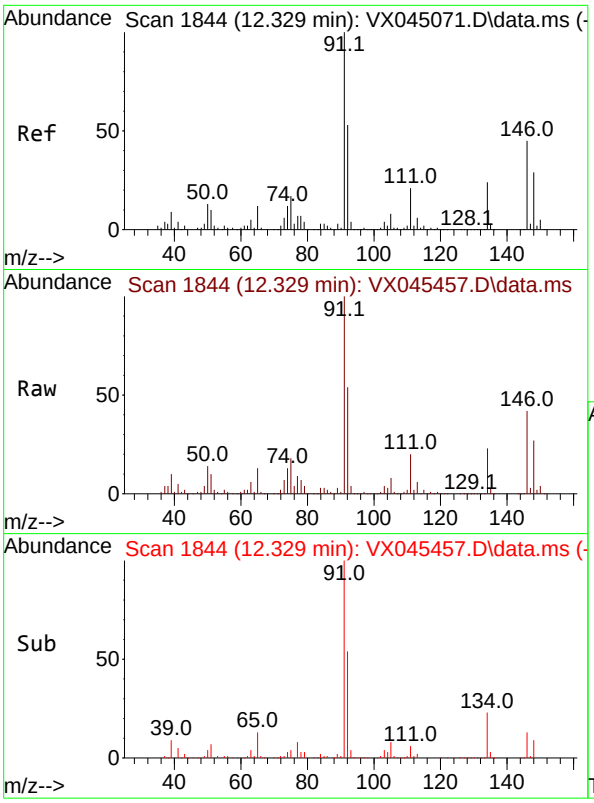


#88
1,4-Dichlorobenzene
Concen: 51.357 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:146 Resp: 107631

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	62.6	31.9	95.9



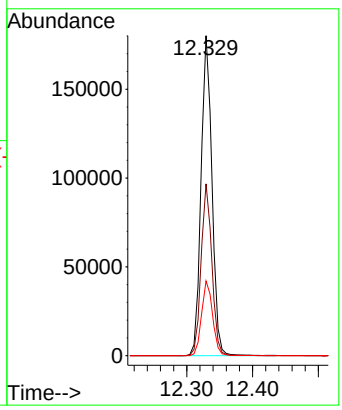


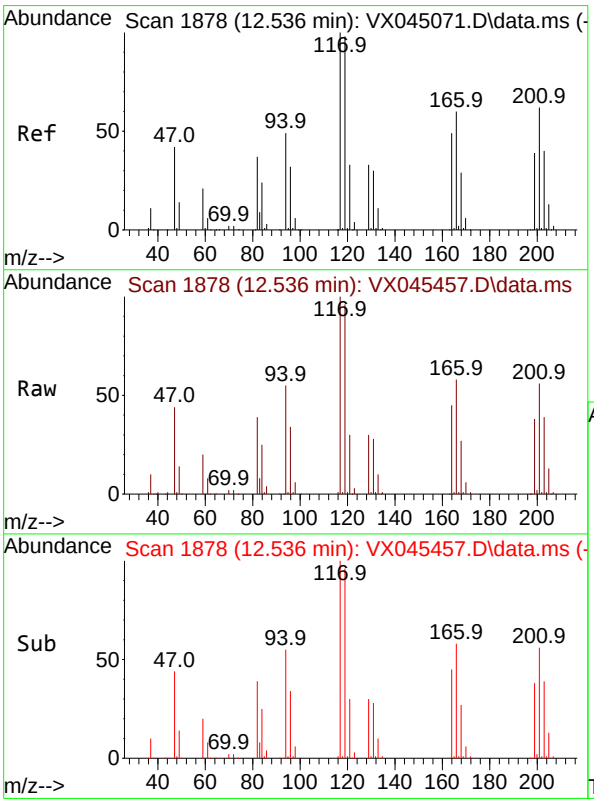
#89
n-Butylbenzene
Concen: 60.962 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 207819

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.0
134	23.6	12.2	36.6

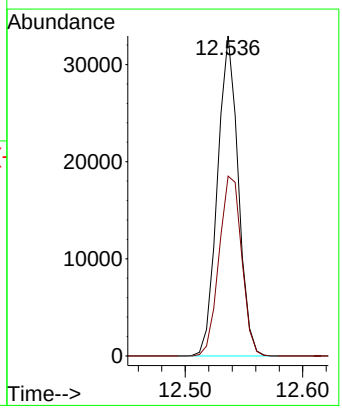


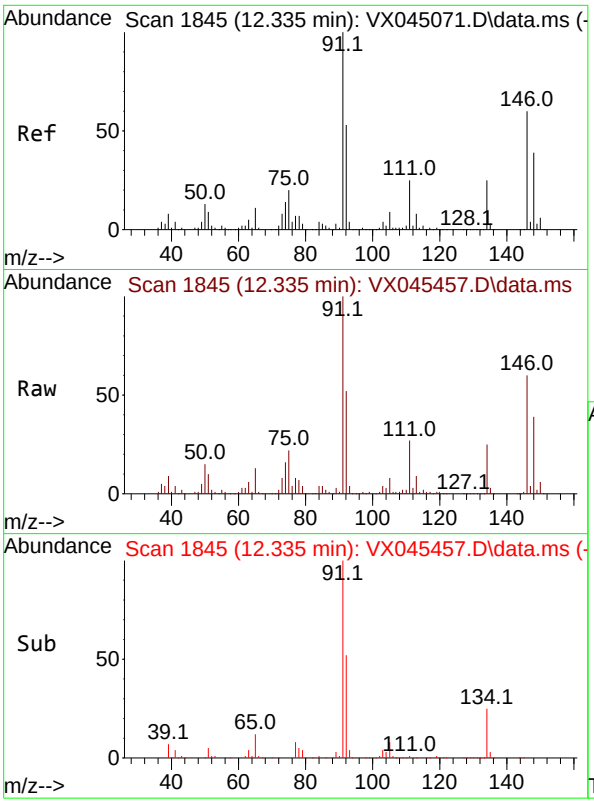


#90
Hexachloroethane
Concen: 56.455 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:117 Resp: 40417

Ion	Ratio	Lower	Upper
117	100		
201	61.2	31.9	95.9



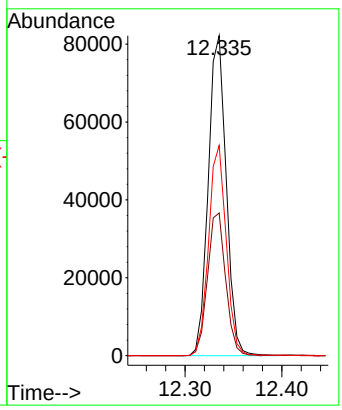


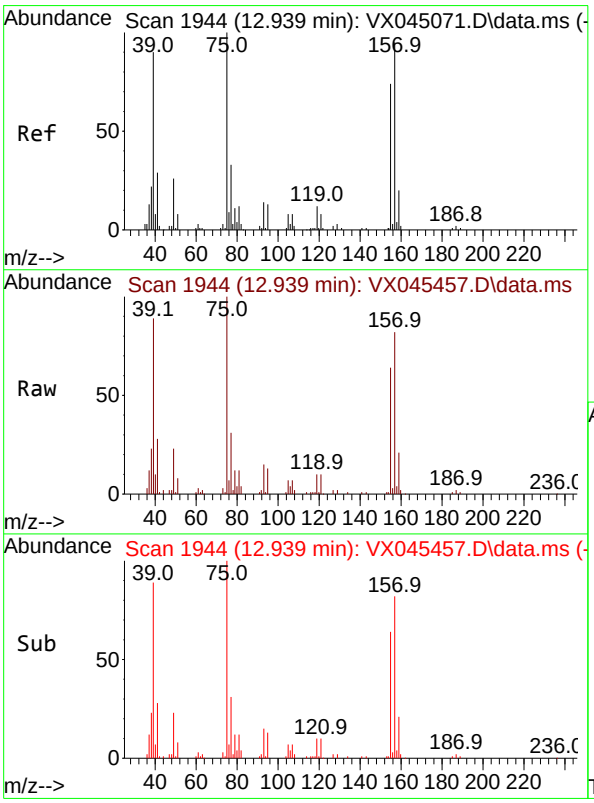
#91
1,2-Dichlorobenzene
Concen: 51.100 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 106186

Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.6	65.0
148	64.6	31.9	95.9

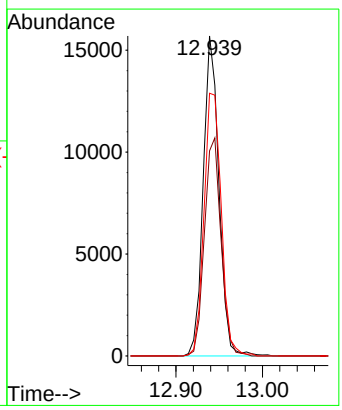


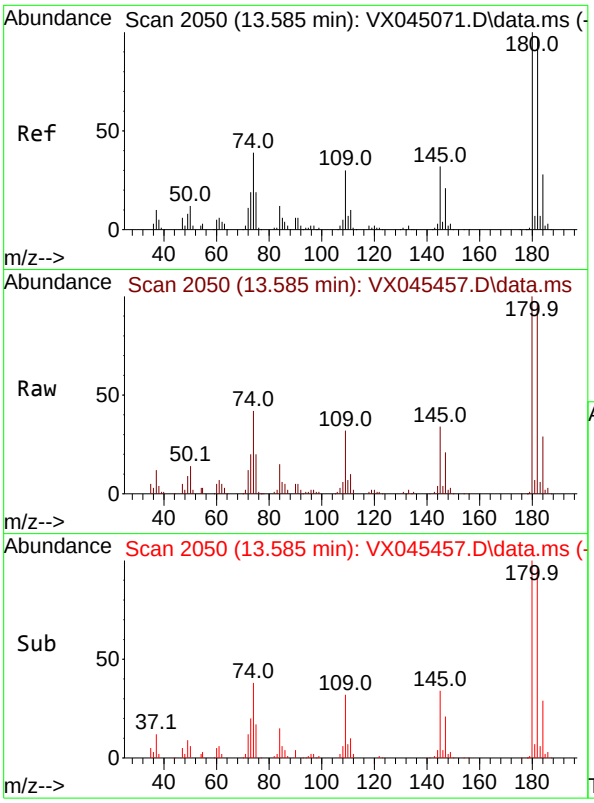


#92
1,2-Dibromo-3-Chloropropane
Concen: 56.165 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion: 75 Resp: 19761

Ion	Ratio	Lower	Upper
75	100		
155	72.2	39.6	118.7
157	90.2	51.1	153.4



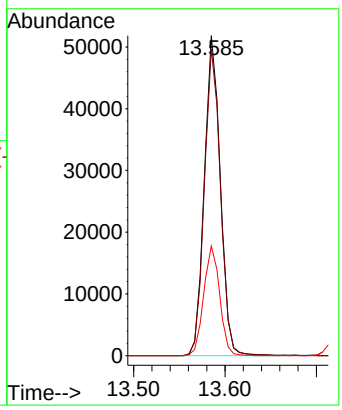


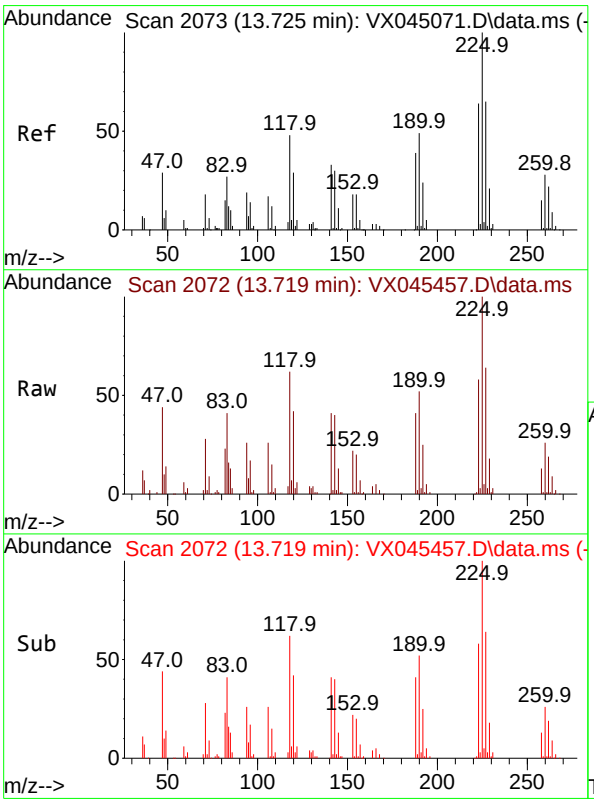
#93
1,2,4-Trichlorobenzene
Concen: 53.203 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 62951

Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.3	141.9
145	34.1	16.3	48.9

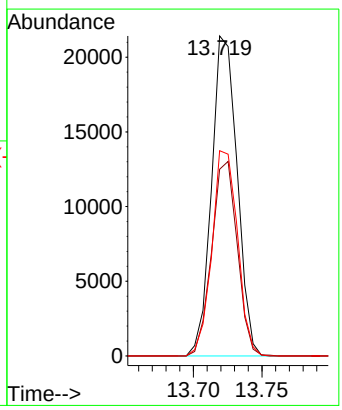


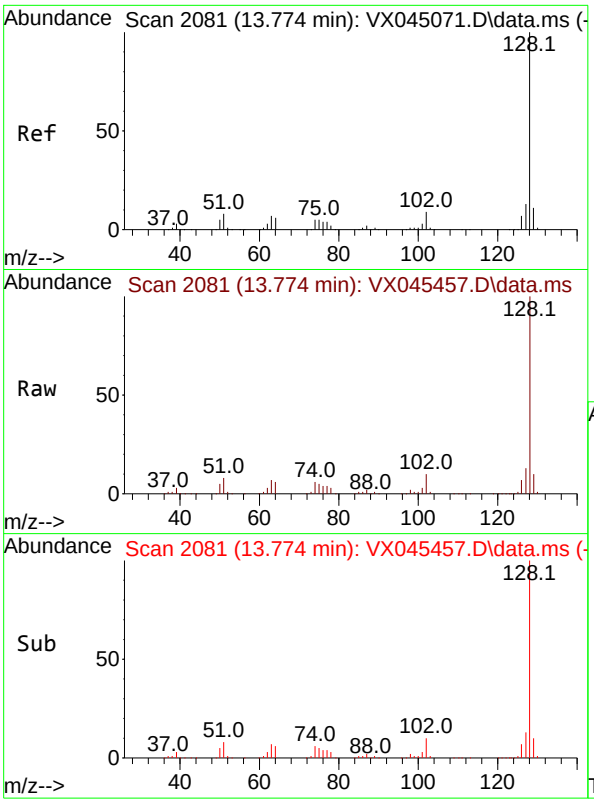


#94
Hexachlorobutadiene
Concen: 57.244 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:225 Resp: 27769

Ion	Ratio	Lower	Upper
225	100		
223	60.9	31.9	95.7
227	64.3	31.4	94.0



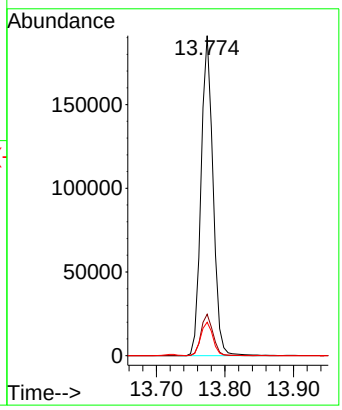


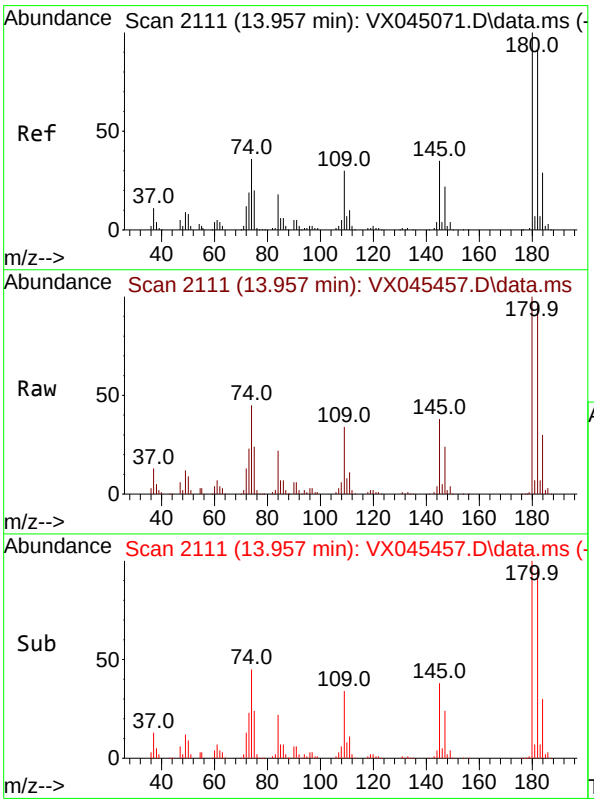
#95
Naphthalene
Concen: 51.221 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 232852

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.7	13.1

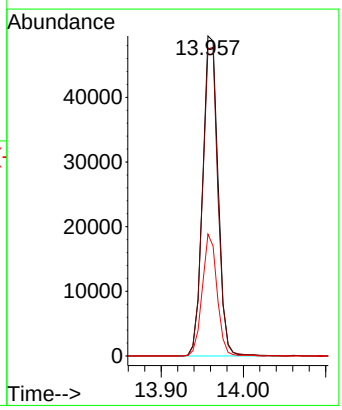




#96
1,2,3-Trichlorobenzene
Concen: 51.414 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045457.D
Acq: 26 Mar 2025 10:03

Tgt Ion:180 Resp: 64177

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.5	142.6
145	36.7	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	86104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	155857	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	136930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61262	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	73660	53.782	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.560%			
35) Dibromofluoromethane	5.379	113	53135	50.985	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.960%			
50) Toluene-d8	8.647	98	182631	48.337	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.680%			
62) 4-Bromofluorobenzene	11.079	95	66047	52.753	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	19532	18.021	ug/l	91
3) Chloromethane	1.307	50	20129	15.176	ug/l	92
4) Vinyl Chloride	1.374	62	20125	15.295	ug/l	98
5) Bromomethane	1.593	94	9600	18.559	ug/l	99
6) Chloroethane	1.666	64	12116	19.963	ug/l	92
7) Trichlorofluoromethane	1.874	101	31955	18.345	ug/l	99
8) Diethyl Ether	2.130	74	11324	16.621	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	21611	21.595	ug/l	99
10) Methyl Iodide	2.441	142	23647	18.908	ug/l	95
11) Tert butyl alcohol	2.977	59	20108	77.510	ug/l	97
12) 1,1-Dichloroethene	2.306	96	18823	17.790	ug/l	88
13) Acrolein	2.239	56	46057	153.580	ug/l	100
14) Allyl chloride	2.654	41	36901	19.593	ug/l	94
15) Acrylonitrile	3.062	53	69441	99.873	ug/l	98
16) Acetone	2.386	43	64578	101.624	ug/l	99
17) Carbon Disulfide	2.501	76	35933	12.751	ug/l #	95
18) Methyl Acetate	2.703	43	42606	27.871	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	72115	20.316	ug/l	97
20) Methylene Chloride	2.782	84	23893	18.981	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	19581	18.733	ug/l	97
22) Diisopropyl ether	3.763	45	76469	19.964	ug/l	93
23) Vinyl Acetate	3.721	43	306103	95.765	ug/l	99
24) 1,1-Dichloroethane	3.605	63	43058	20.059	ug/l	98
25) 2-Butanone	4.562	43	100026	104.573	ug/l	99
26) 2,2-Dichloropropane	4.471	77	28885	28.688	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	25041	19.407	ug/l	92
28) Bromochloromethane	4.891	49	21480	20.993	ug/l	97
29) Tetrahydrofuran	5.007	42	62954	98.005	ug/l	98
30) Chloroform	5.086	83	44967	21.082	ug/l	99
31) Cyclohexane	5.458	56	33852	18.167	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	36101	20.957	ug/l	97
36) 1,1-Dichloropropene	5.684	75	26571	18.591	ug/l	98
37) Ethyl Acetate	4.721	43	35014	19.012	ug/l	98
38) Carbon Tetrachloride	5.666	117	29493	20.326	ug/l	97
39) Methylcyclohexane	7.373	83	31736	18.531	ug/l	94
40) Benzene	6.031	78	86246	19.110	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	22069	22.162	ug/l		97
42) 1,2-Dichloroethane	6.080	62	36284	22.326	ug/l		98
43) Isopropyl Acetate	6.342	43	54608	20.052	ug/l		98
44) Trichloroethene	7.123	130	20066	18.935	ug/l		99
45) 1,2-Dichloropropane	7.427	63	22989	19.811	ug/l		99
46) Dibromomethane	7.580	93	17121	20.875	ug/l		96
47) Bromodichloromethane	7.818	83	34556	21.480	ug/l		97
48) Methyl methacrylate	7.690	41	28268	20.690	ug/l		93
49) 1,4-Dioxane	7.665	88	10136	351.704	ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	199417	109.058	ug/l		98
52) Toluene	8.714	92	52106	19.678	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	27477	20.430	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	31909	20.346	ug/l	#	90
55) 1,1,2-Trichloroethane	9.153	97	22547	20.683	ug/l		97
56) Ethyl methacrylate	9.116	69	33792	20.393	ug/l		93
57) 1,3-Dichloropropane	9.305	76	39109	20.731	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	78925	97.641	ug/l		98
59) 2-Hexanone	9.427	43	142958	107.905	ug/l		96
60) Dibromochloromethane	9.519	129	24038	21.089	ug/l		100
61) 1,2-Dibromoethane	9.610	107	22245	20.441	ug/l		99
64) Tetrachloroethene	9.269	164	17875	20.382	ug/l		95
65) Chlorobenzene	10.079	112	57272	19.767	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	19871	20.594	ug/l		99
67) Ethyl Benzene	10.189	91	102810	20.364	ug/l		97
68) m/p-Xylenes	10.299	106	75344	40.767	ug/l		97
69) o-Xylene	10.640	106	36903	19.798	ug/l		93
70) Styrene	10.652	104	61842	20.504	ug/l		97
71) Bromoform	10.799	173	14956	20.555	ug/l	#	99
73) Isopropylbenzene	10.957	105	99726	20.856	ug/l		98
74) N-amyl acetate	10.841	43	44441	19.807	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	35740	20.368	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	37521	26.314	ug/l		86
77) Bromobenzene	11.195	156	22393	19.848	ug/l		96
78) n-propylbenzene	11.305	91	113273	20.970	ug/l		97
79) 2-Chlorotoluene	11.360	91	70756	20.568	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	80231	20.751	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	7884	18.922	ug/l	#	81
82) 4-Chlorotoluene	11.451	91	78163	20.848	ug/l		100
83) tert-Butylbenzene	11.713	119	81878	20.611	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	81595	20.974	ug/l		98
85) sec-Butylbenzene	11.890	105	100377	21.094	ug/l		99
86) p-Isopropyltoluene	12.006	119	80414	20.910	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	38996	19.376	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	39135	19.220	ug/l		97
89) n-Butylbenzene	12.329	91	68342	20.634	ug/l		98
90) Hexachloroethane	12.536	117	13976	20.092	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	40119	19.871	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7242	21.185	ug/l		86
93) 1,2,4-Trichlorobenzene	13.585	180	21683	18.861	ug/l		98
94) Hexachlorobutadiene	13.725	225	9796	20.784	ug/l		98
95) Naphthalene	13.774	128	82531	18.685	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	22637	18.665	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

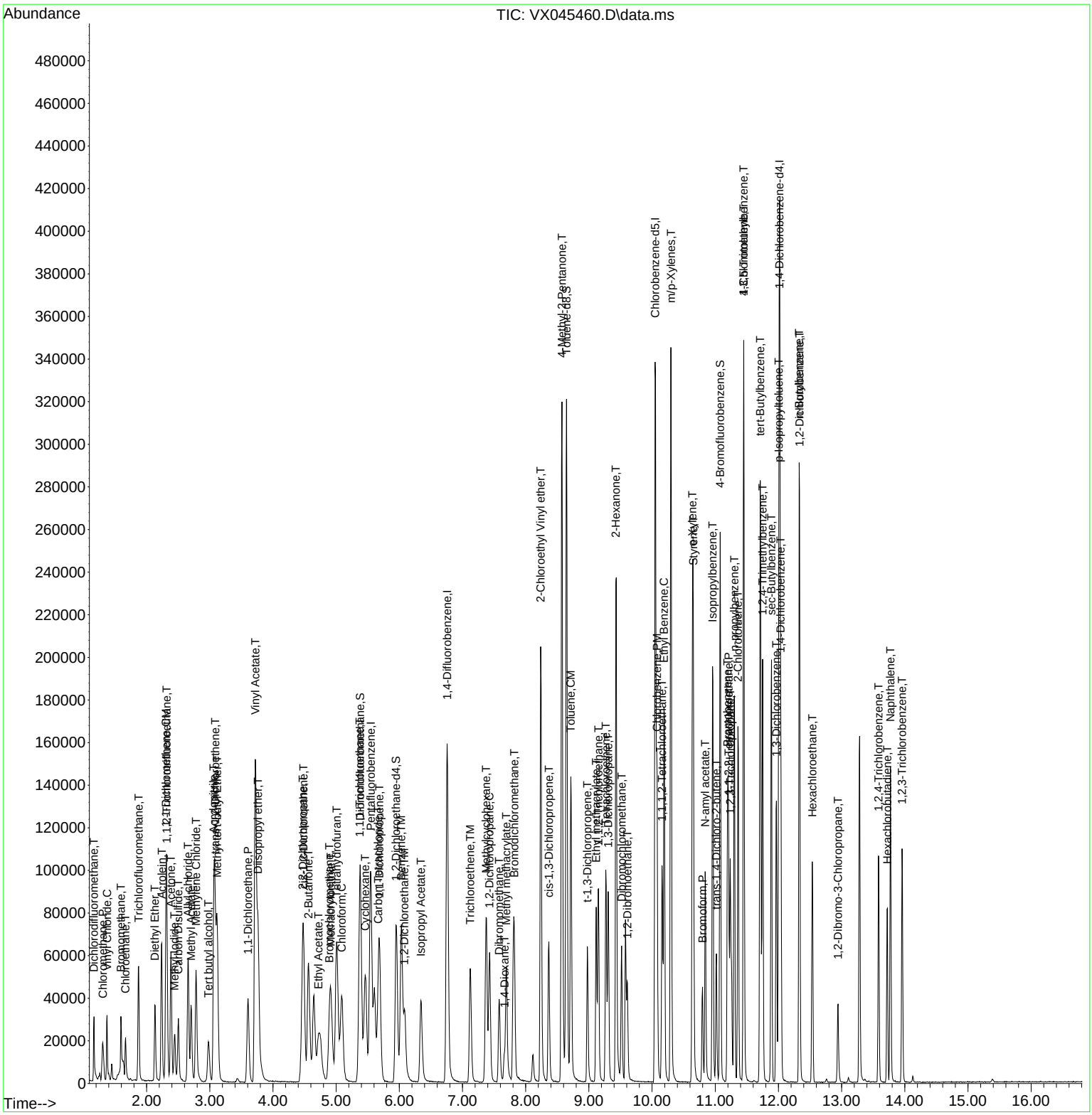
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

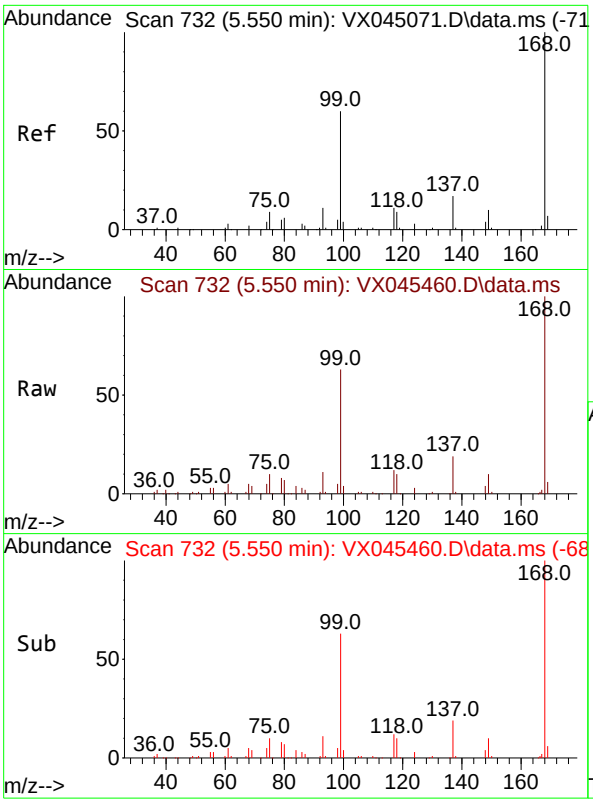
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045460.D
Acq On : 26 Mar 2025 11:18
Operator : JC/MD
Sample : VX0326WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Quant Time: Mar 27 01:33:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



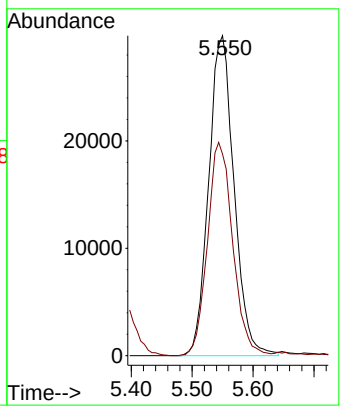


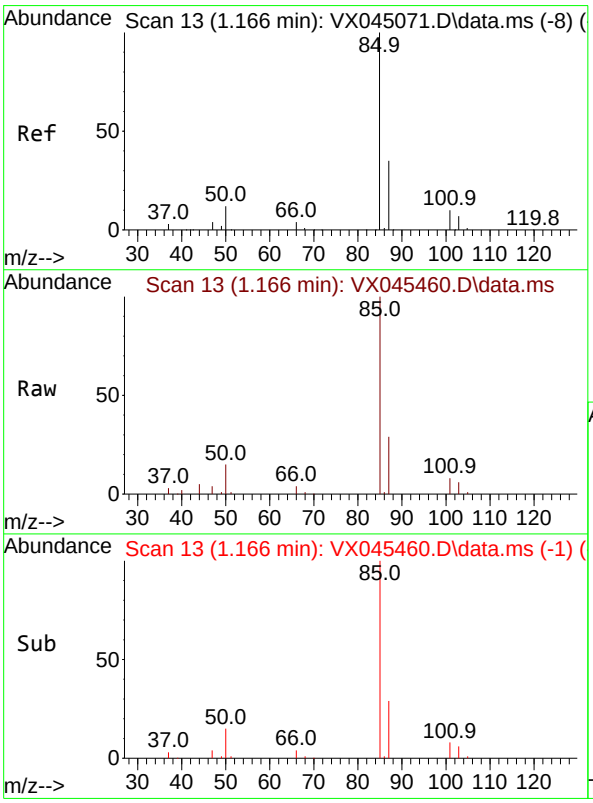
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:168 Resp: 86104

Ion	Ratio	Lower	Upper
168	100		
99	63.0	48.2	72.4

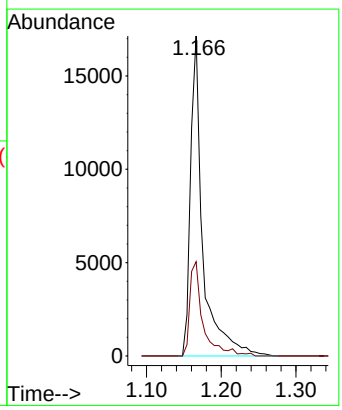


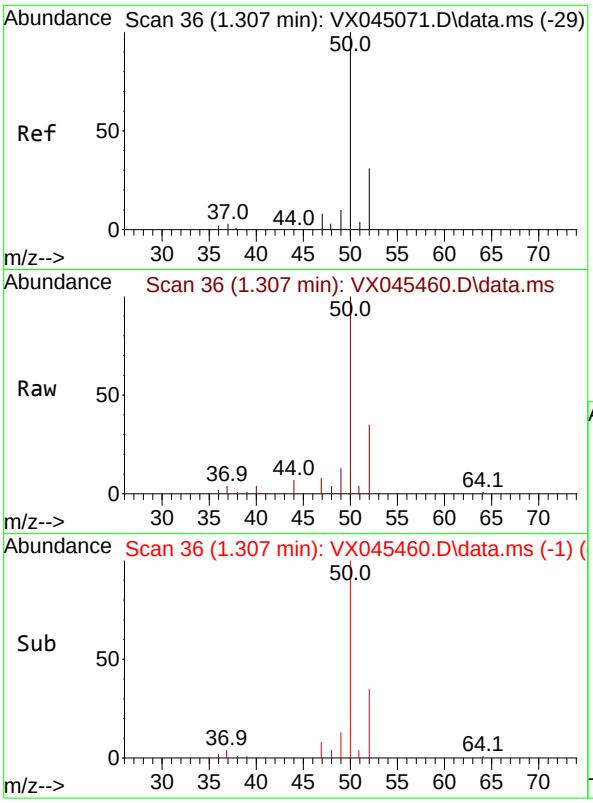


#2
Dichlorodifluoromethane
Concen: 18.021 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 85 Resp: 19532

Ion	Ratio	Lower	Upper
85	100		
87	29.5	17.4	52.3



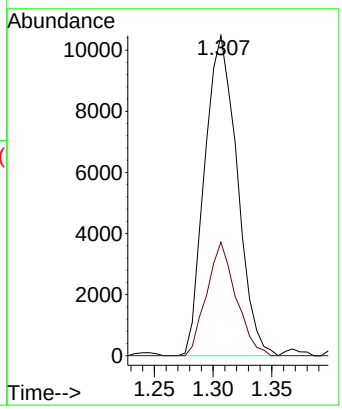


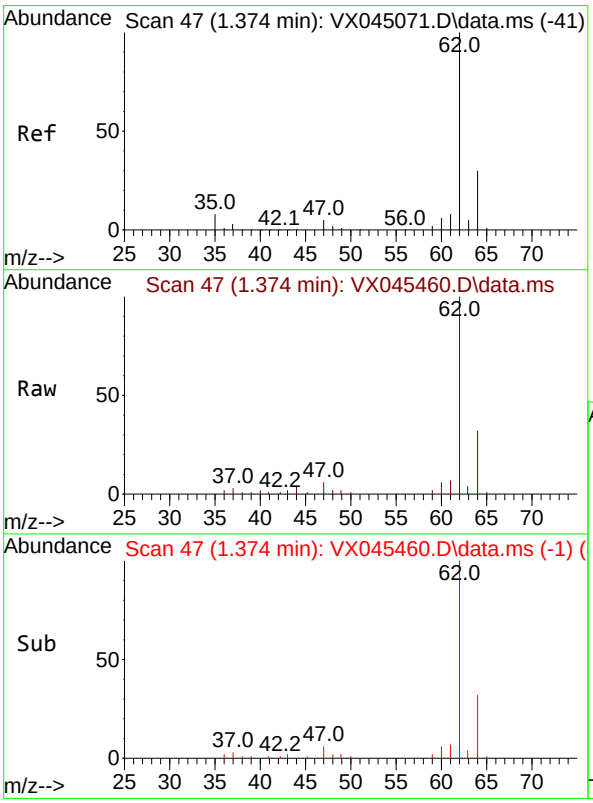
#3
Chloromethane
Concen: 15.176 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 50 Resp: 20129

Ion	Ratio	Lower	Upper
50	100		
52	35.5	25.0	37.4

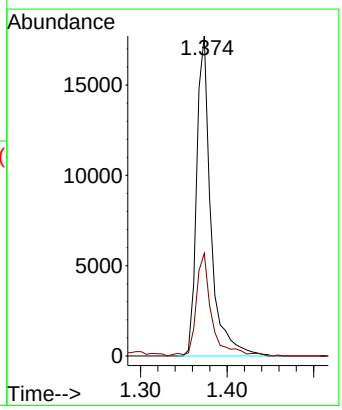


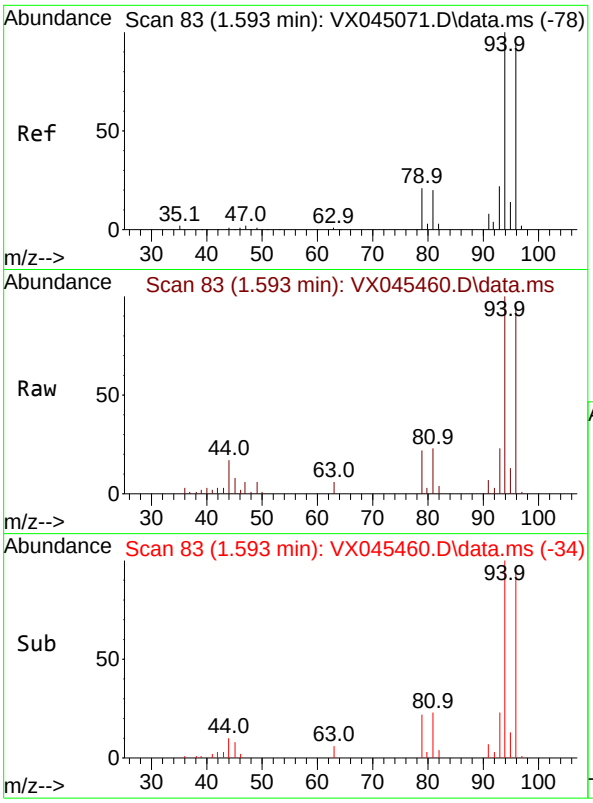


#4
Vinyl Chloride
Concen: 15.295 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 62 Resp: 20125

Ion	Ratio	Lower	Upper
62	100		
64	31.8	24.3	36.5



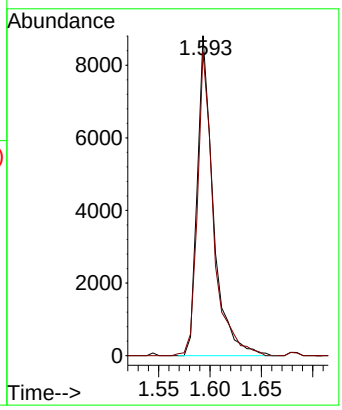


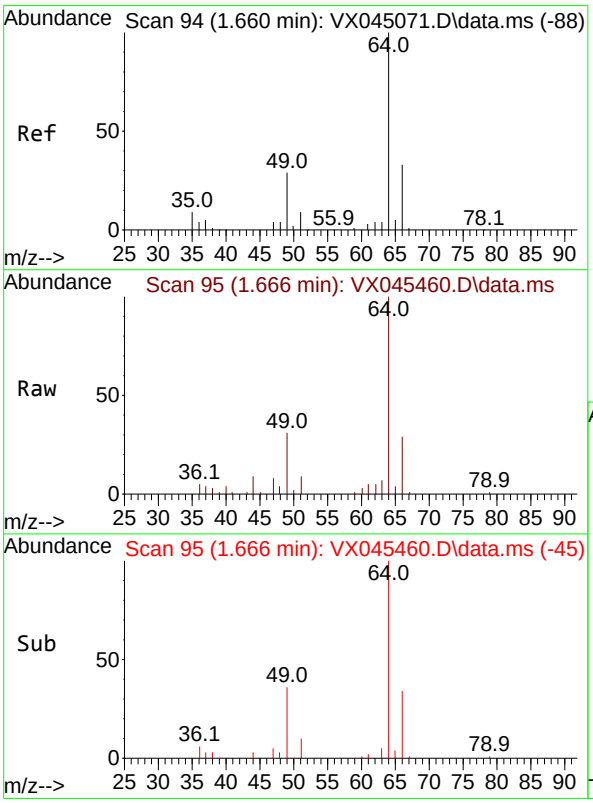
#5
Bromomethane
Concen: 18.559 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 94 Resp: 9600

Ion	Ratio	Lower	Upper
94	100		
96	95.0	75.0	112.4

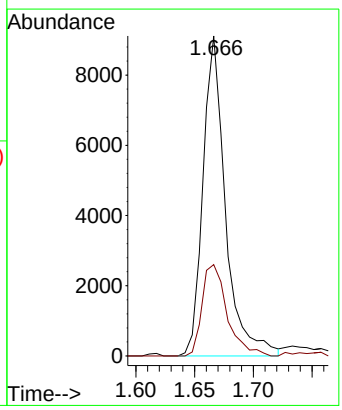


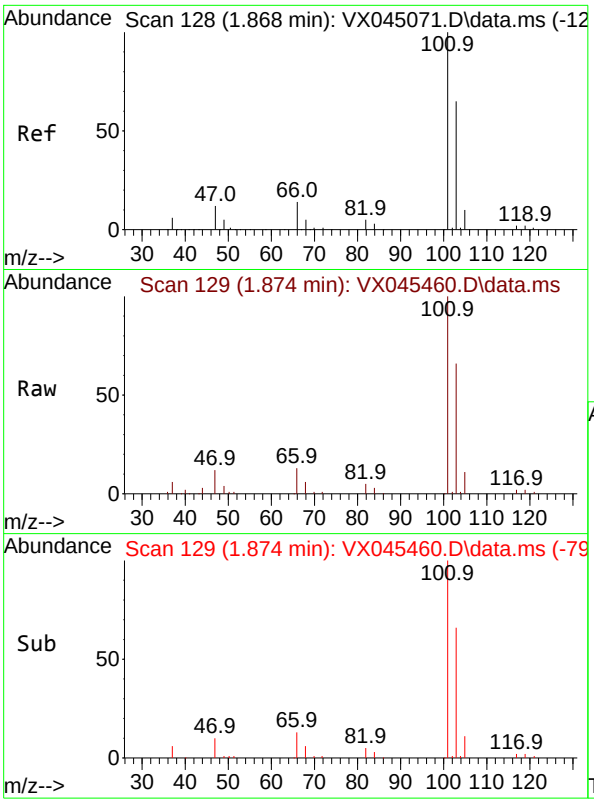


#6
Chloroethane
Concen: 19.963 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 64 Resp: 12116

Ion	Ratio	Lower	Upper
64	100		
66	28.6	26.7	40.1



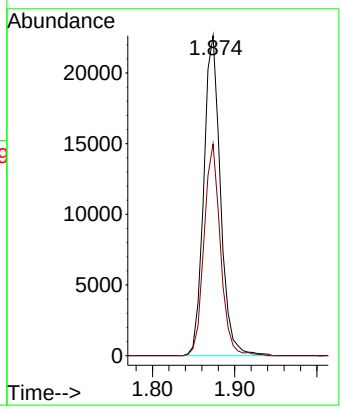


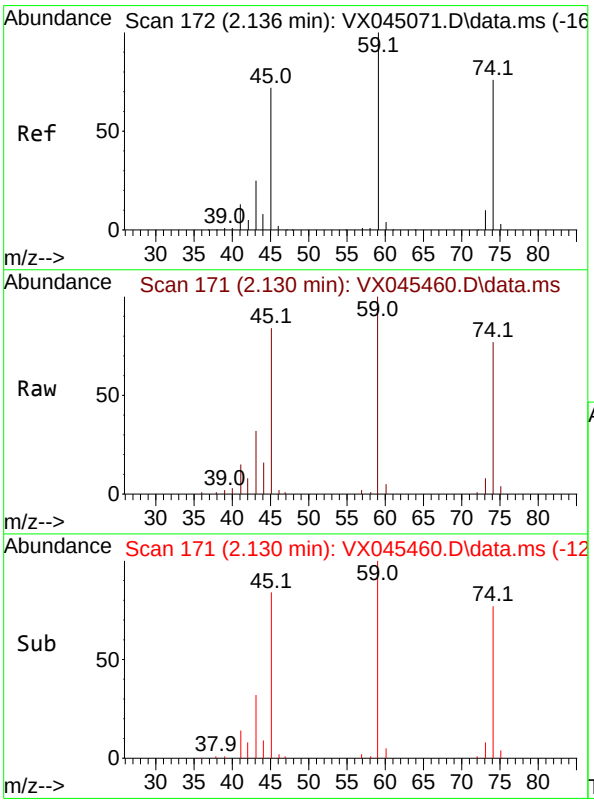
#7
Trichlorofluoromethane
Concen: 18.345 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:101 Resp: 31955

Ion	Ratio	Lower	Upper
101	100		
103	66.2	52.1	78.1

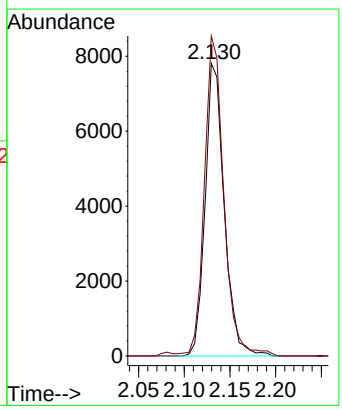


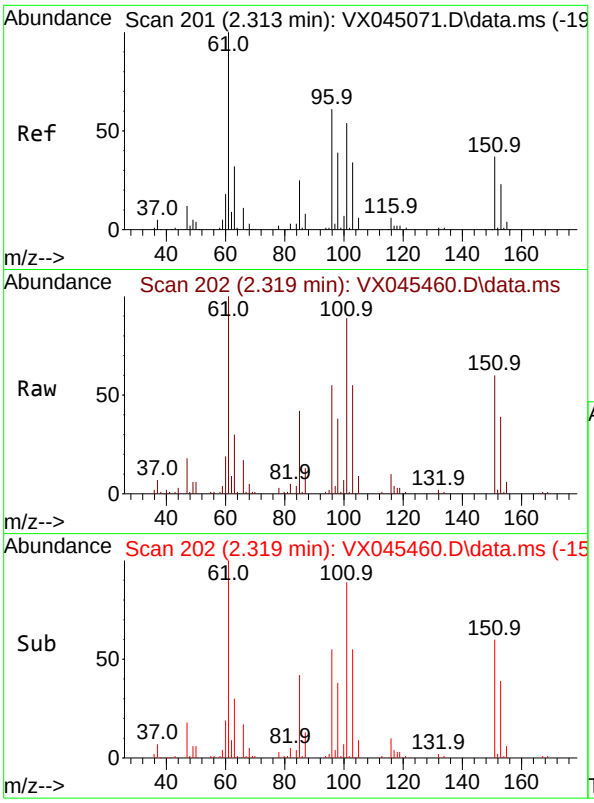


#8
Diethyl Ether
Concen: 16.621 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 74 Resp: 11324

Ion	Ratio	Lower	Upper
74	100		
45	110.8	51.5	154.5



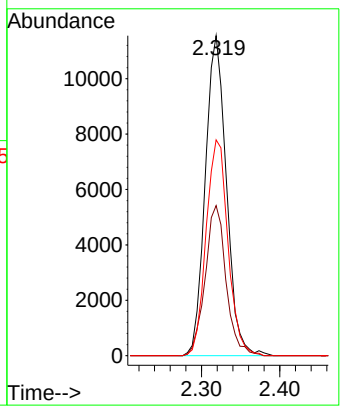


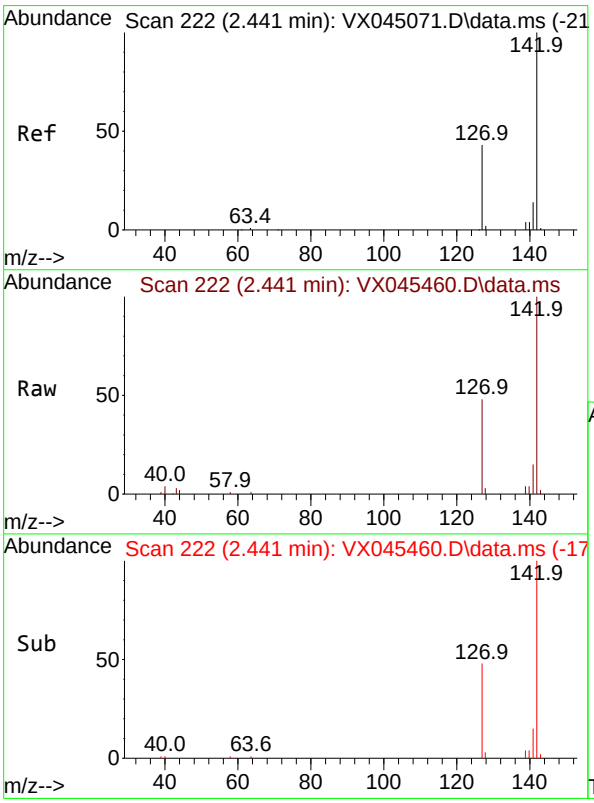
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.595 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:101 Resp: 21611

Ion	Ratio	Lower	Upper
101	100		
85	46.4	36.2	54.4
151	70.0	56.4	84.6

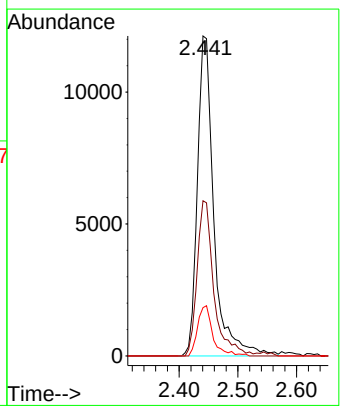


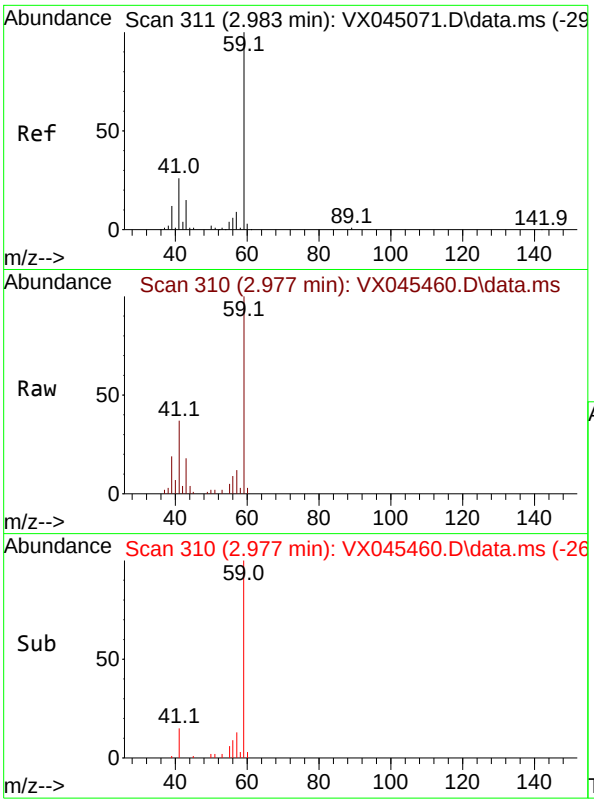


#10
Methyl Iodide
Concen: 18.908 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:142 Resp: 23647

Ion	Ratio	Lower	Upper
142	100		
127	49.0	35.4	53.2
141	14.5	11.6	17.4



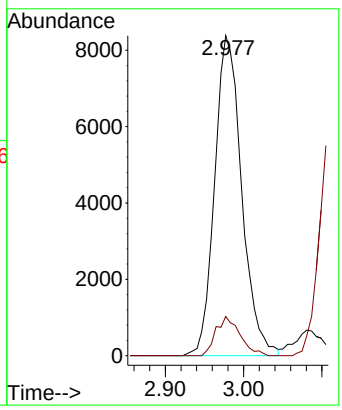


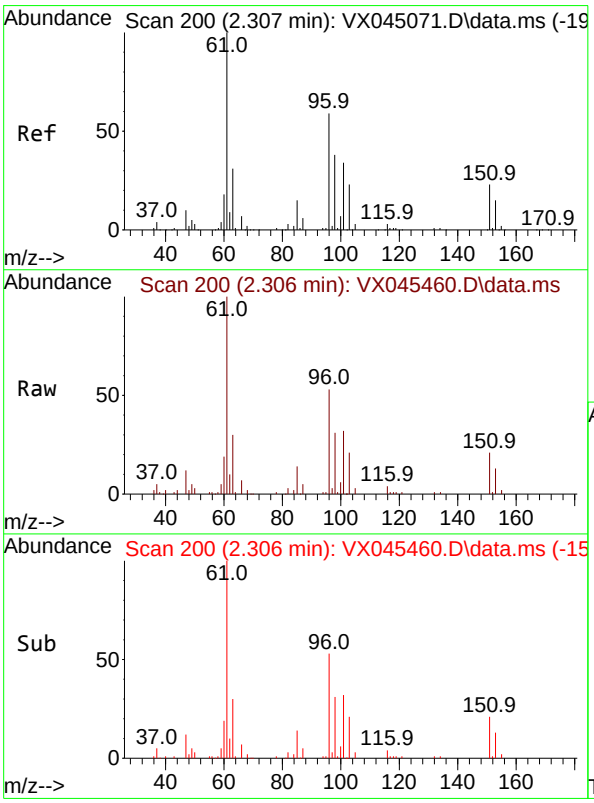
#11
Tert butyl alcohol
Concen: 77.510 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 59 Resp: 20108

Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

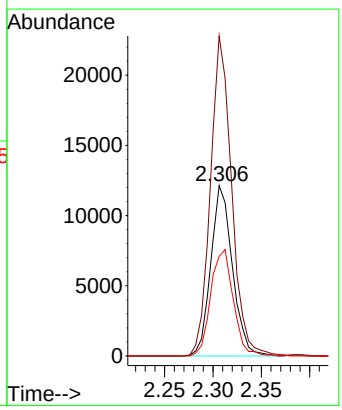


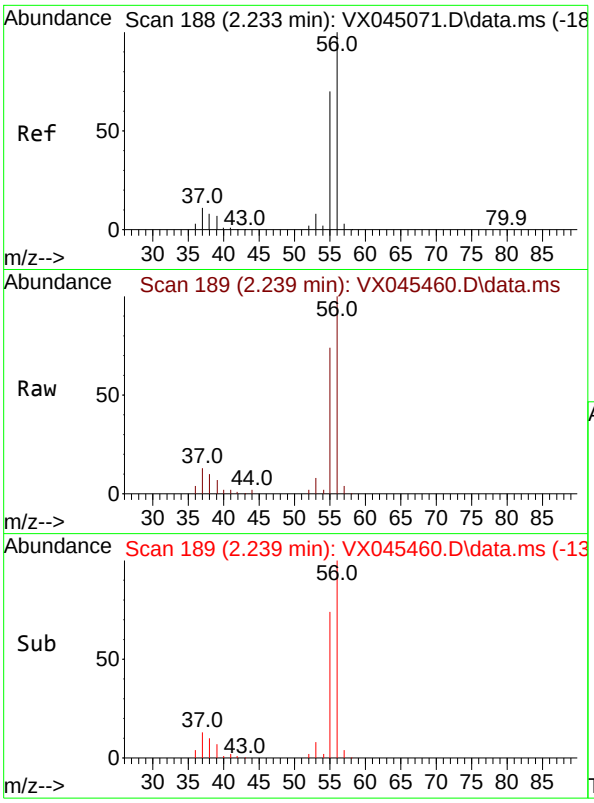


#12
1,1-Dichloroethene
Concen: 17.790 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 96 Resp: 18823

Ion	Ratio	Lower	Upper
96	100		
61	187.7	134.6	202.0
98	58.4	51.0	76.6



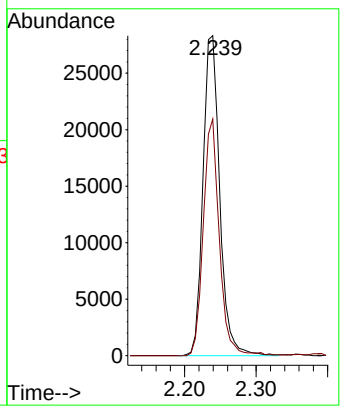


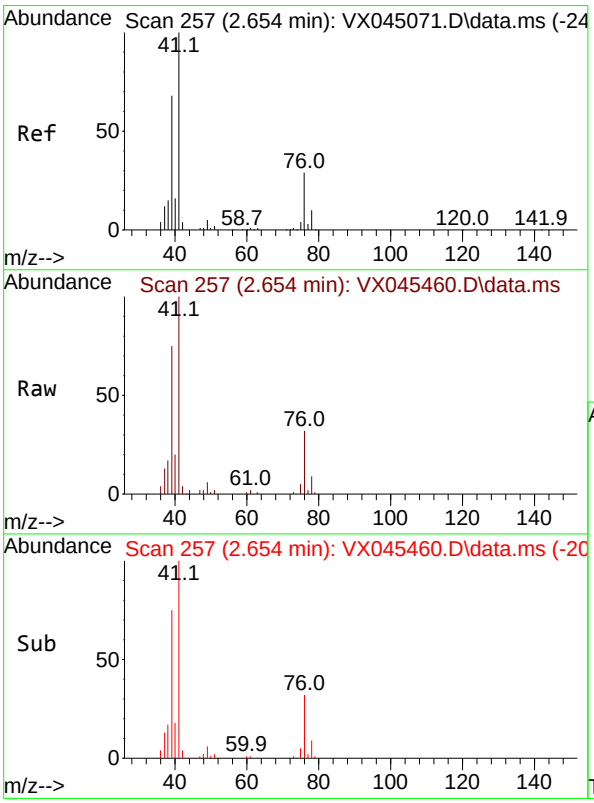
#13
Acrolein
Concen: 153.580 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 56 Resp: 46057

Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.2	84.4

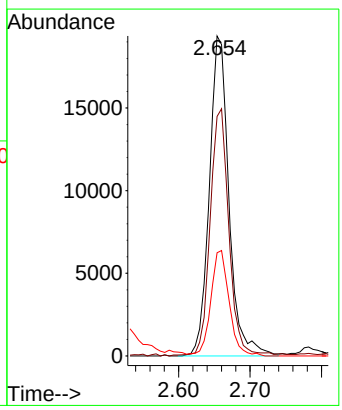


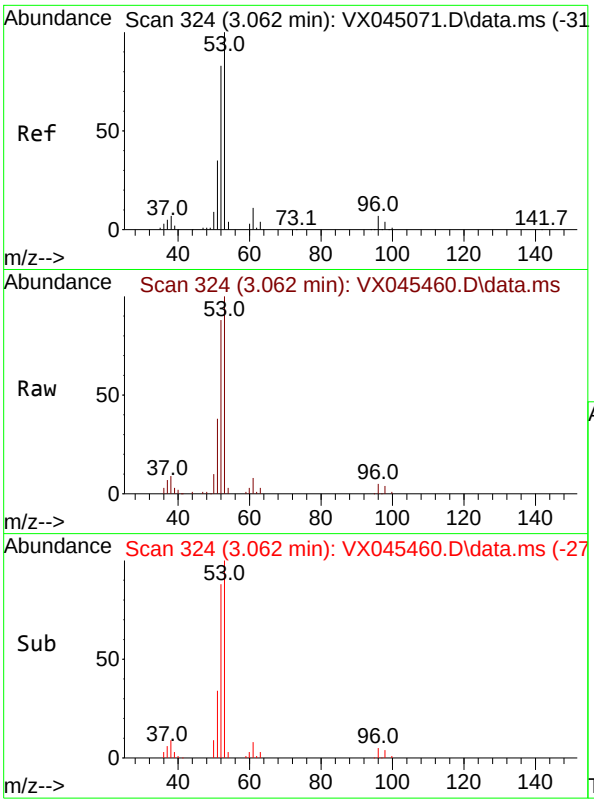


#14
Allyl chloride
Concen: 19.593 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 41 Resp: 36901

Ion	Ratio	Lower	Upper
41	100		
39	74.3	53.8	80.8
76	30.8	25.2	37.8



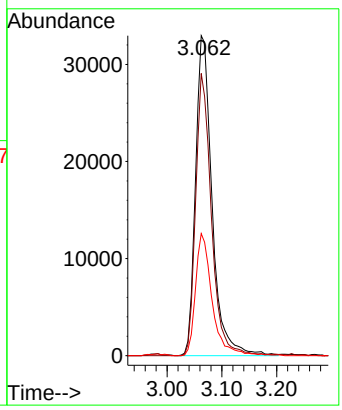


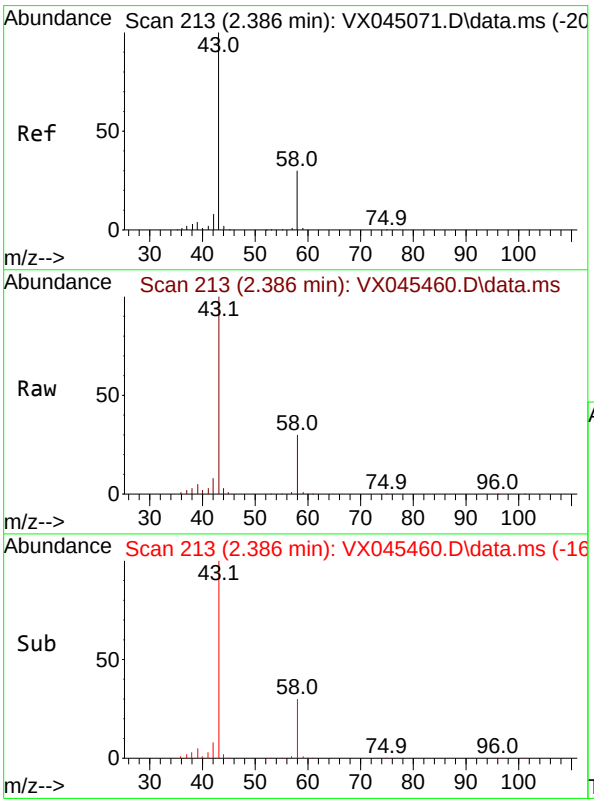
#15
Acrylonitrile
Concen: 99.873 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 53 Resp: 69441

Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.2	99.2
51	38.3	29.0	43.4

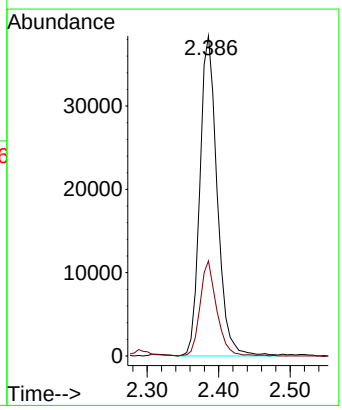


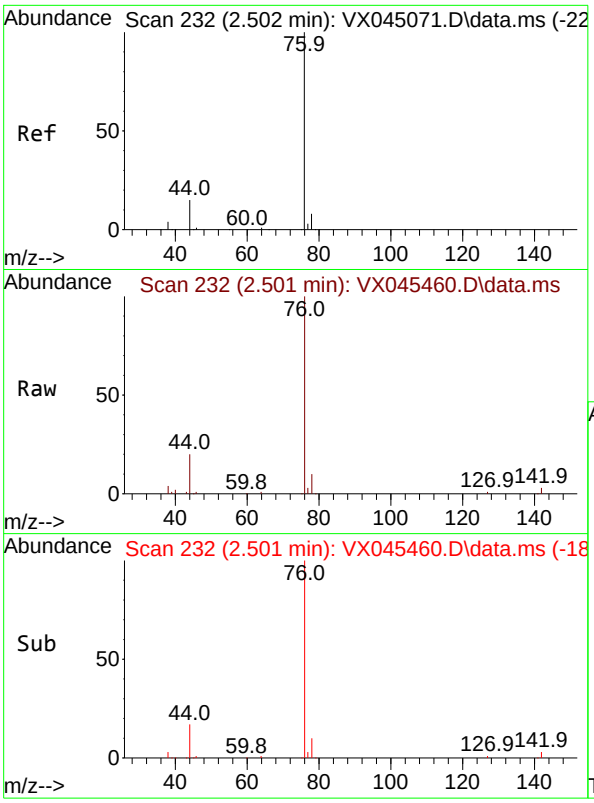


#16
Acetone
Concen: 101.624 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 64578

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4



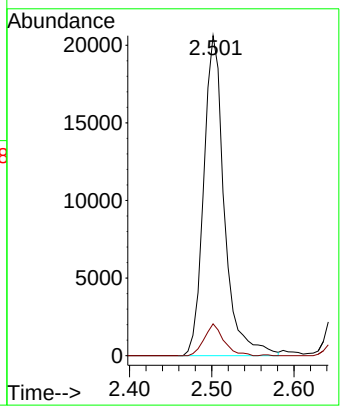


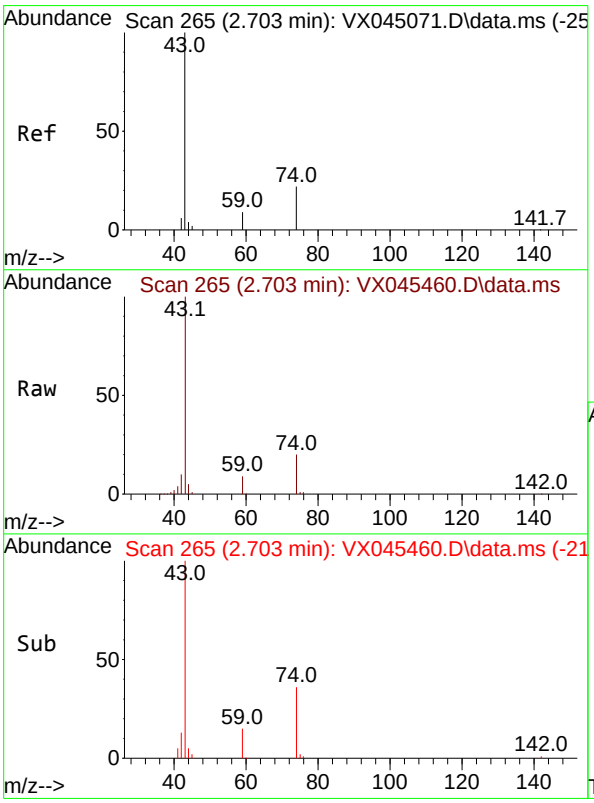
#17
Carbon Disulfide
Concen: 12.751 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 76 Resp: 35933

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.6	9.8#

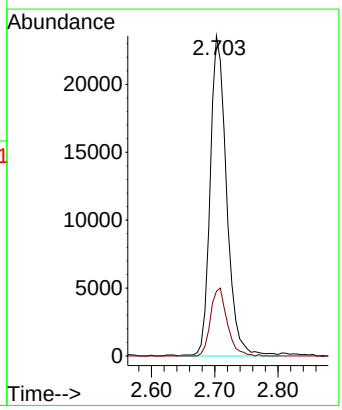


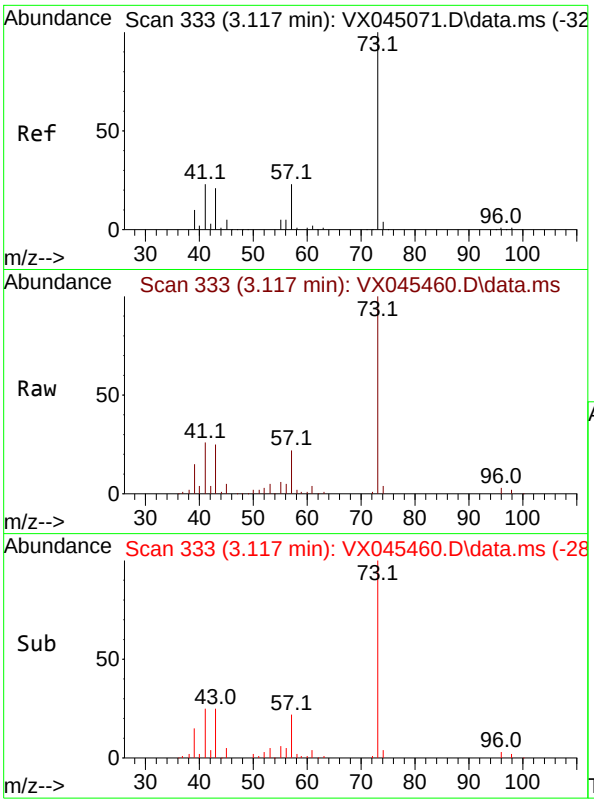


#18
Methyl Acetate
Concen: 27.871 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 42606

Ion	Ratio	Lower	Upper
43	100		
74	21.5	17.4	26.2



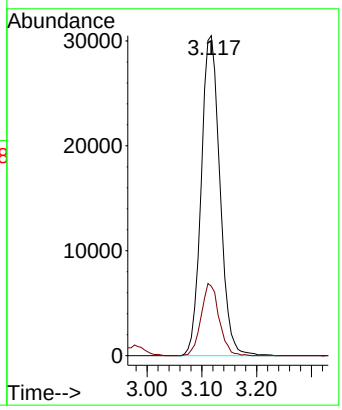


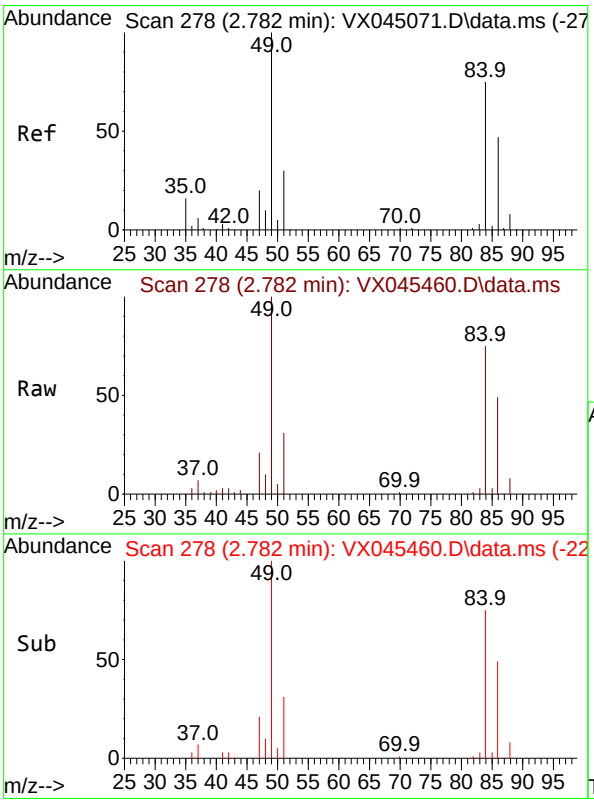
#19
Methyl tert-butyl Ether
Concen: 20.316 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 73 Resp: 72115

Ion	Ratio	Lower	Upper
73	100		
57	21.7	18.5	27.7

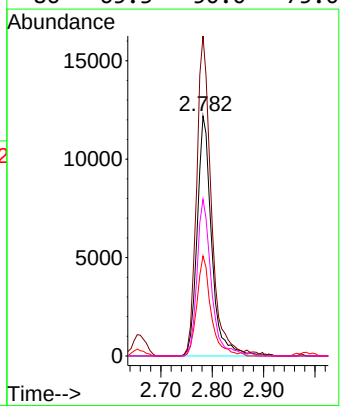


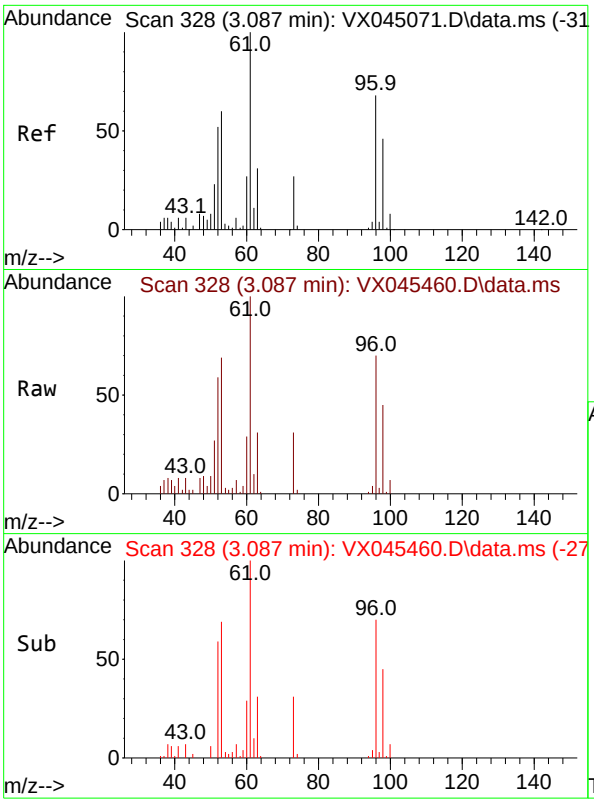


#20
Methylene Chloride
Concen: 18.981 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 84 Resp: 23893

Ion	Ratio	Lower	Upper
84	100		
49	133.4	106.5	159.7
51	41.7	32.1	48.1
86	65.3	50.0	75.0



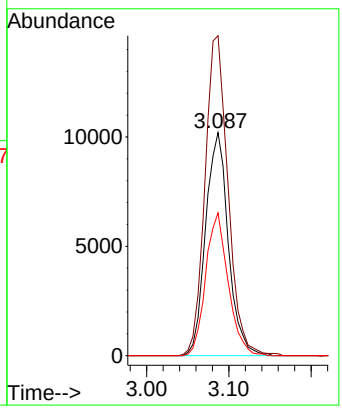


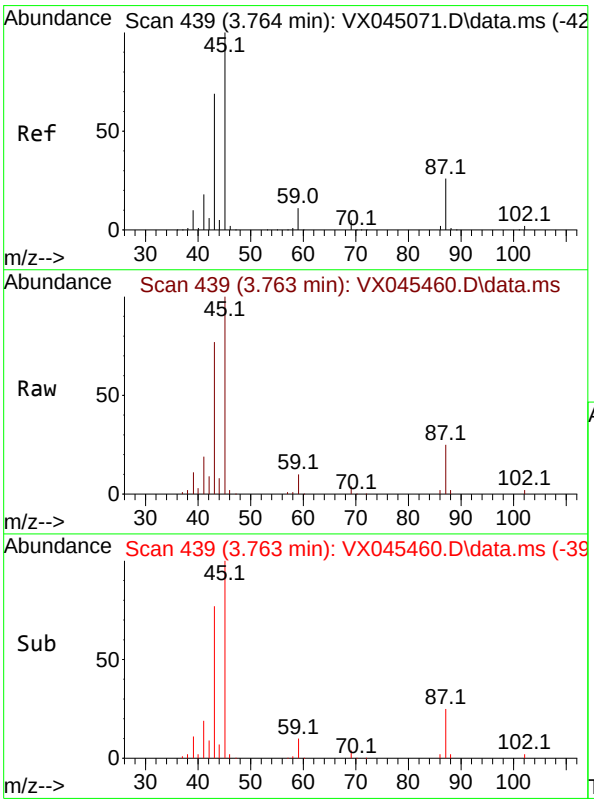
#21
trans-1,2-Dichloroethene
Concen: 18.733 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 96 Resp: 19581

Ion	Ratio	Lower	Upper
96	100		
61	143.4	117.0	175.4
98	64.0	53.4	80.2

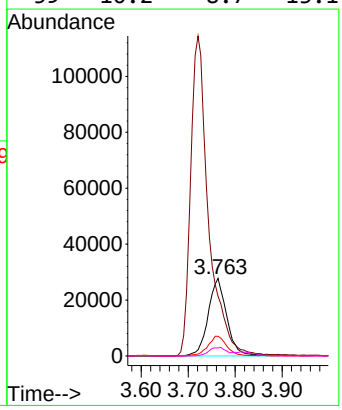


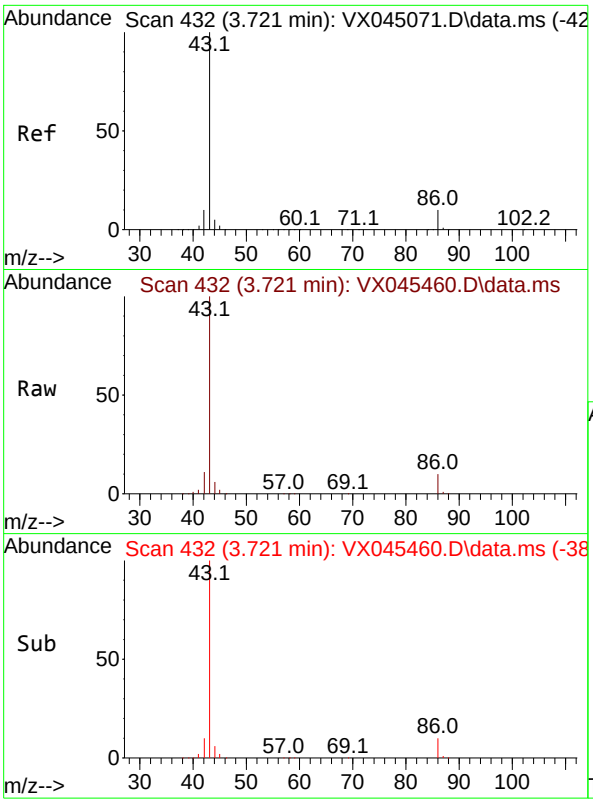


#22
Diisopropyl ether
Concen: 19.964 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 45 Resp: 76469

Ion	Ratio	Lower	Upper
45	100		
43	76.2	54.9	82.3
87	25.4	21.0	31.4
59	10.2	8.7	13.1



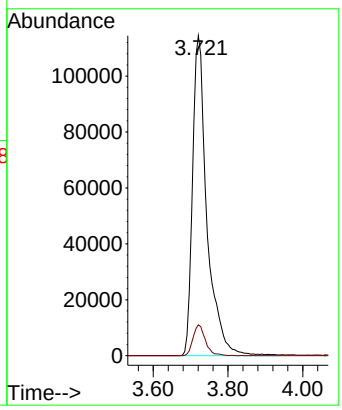


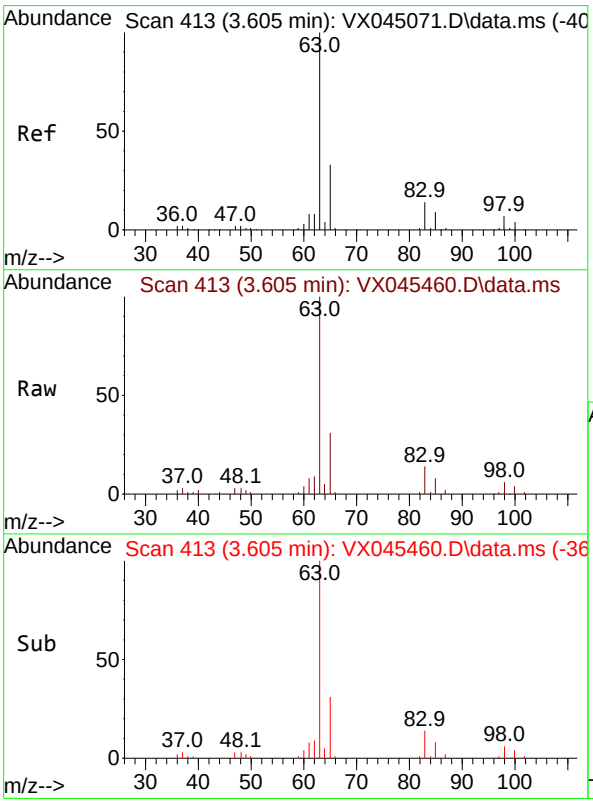
#23
Vinyl Acetate
Concen: 95.765 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 43 Resp: 306103

Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.1	12.1

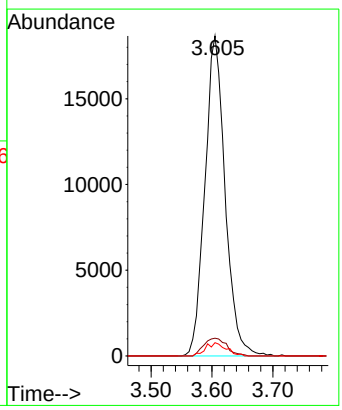


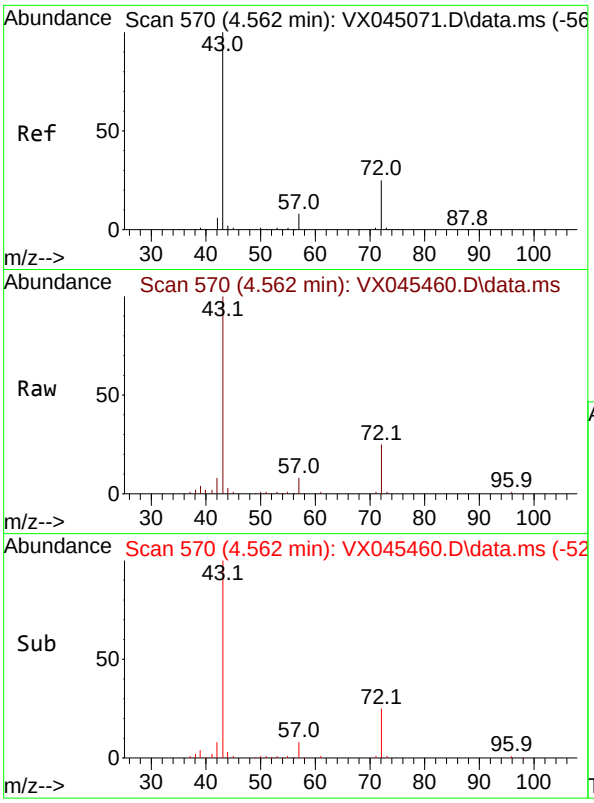


#24
1,1-Dichloroethane
Concen: 20.059 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 63 Resp: 43058

Ion	Ratio	Lower	Upper
63	100		
98	5.5	3.4	10.2
100	4.2	2.1	6.5



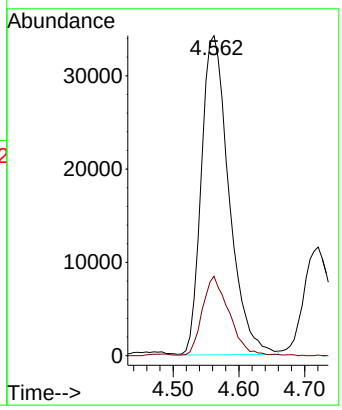


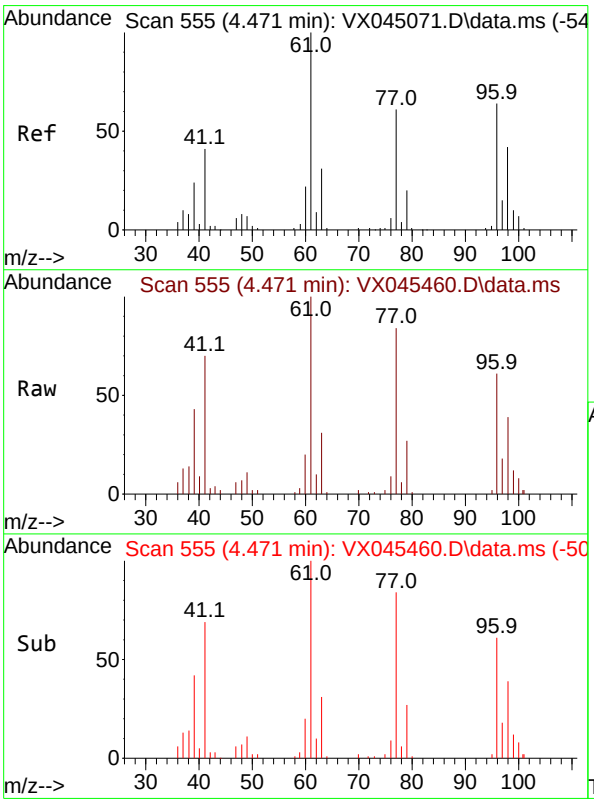
#25
2-Butanone
Concen: 104.573 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 43 Resp: 100026

Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.0	30.0

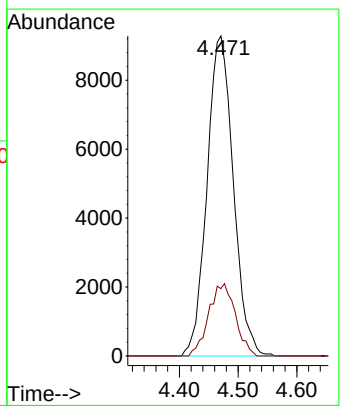


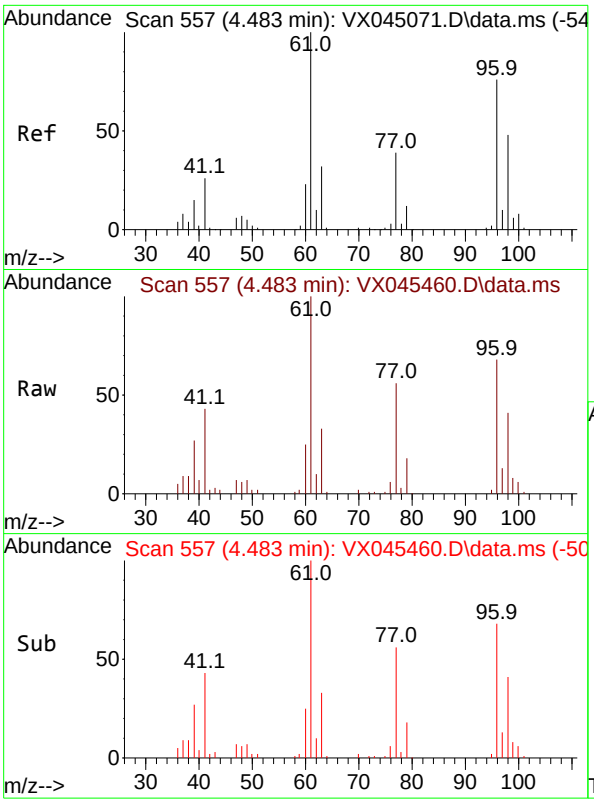


#26
2,2-Dichloropropane
Concen: 28.688 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 77 Resp: 28885

Ion	Ratio	Lower	Upper
77	100		
97	22.8	12.4	37.0



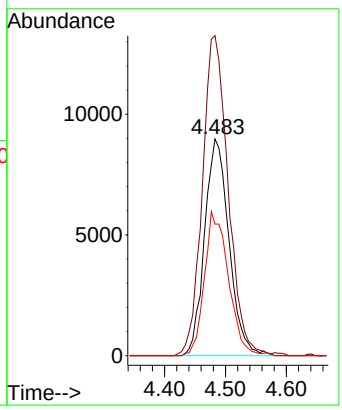


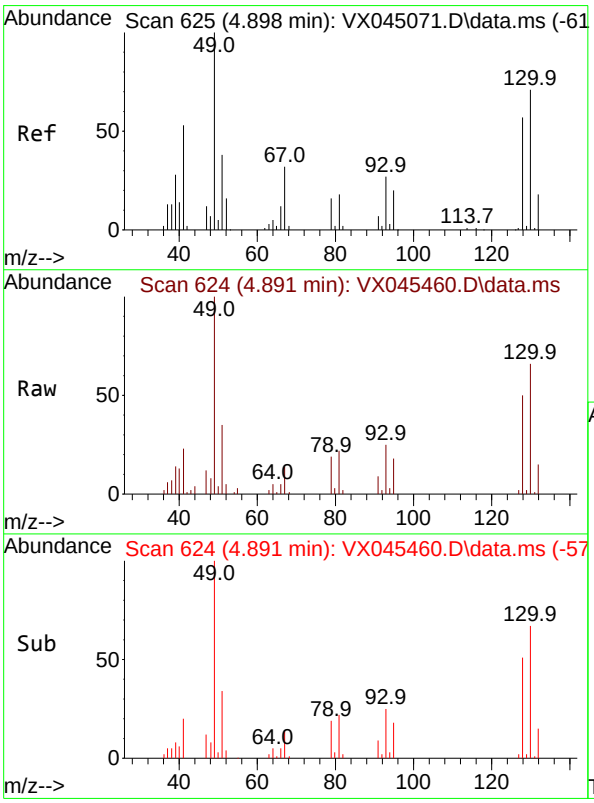
#27
cis-1,2-Dichloroethene
Concen: 19.407 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 96 Resp: 25041

Ion	Ratio	Lower	Upper
96	100		
61	155.5	0.0	283.2
98	65.2	0.0	128.0

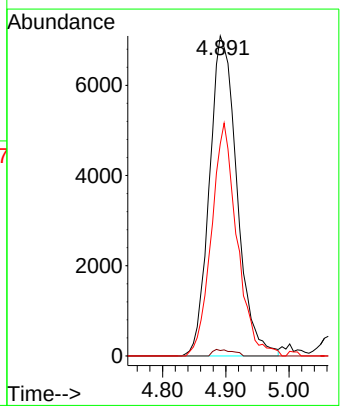


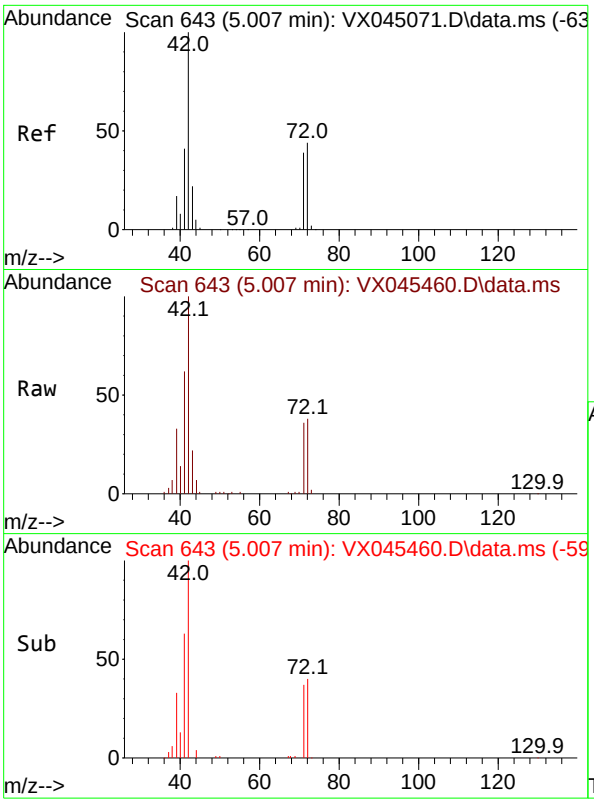


#28
Bromochloromethane
Concen: 20.993 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 49 Resp: 21480

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.4
130	67.7	56.1	84.1



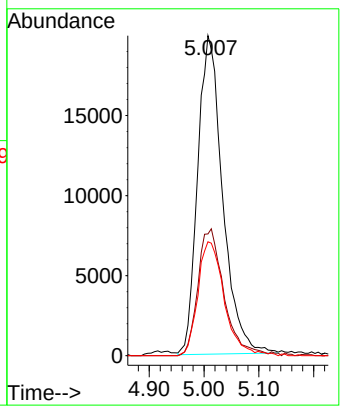


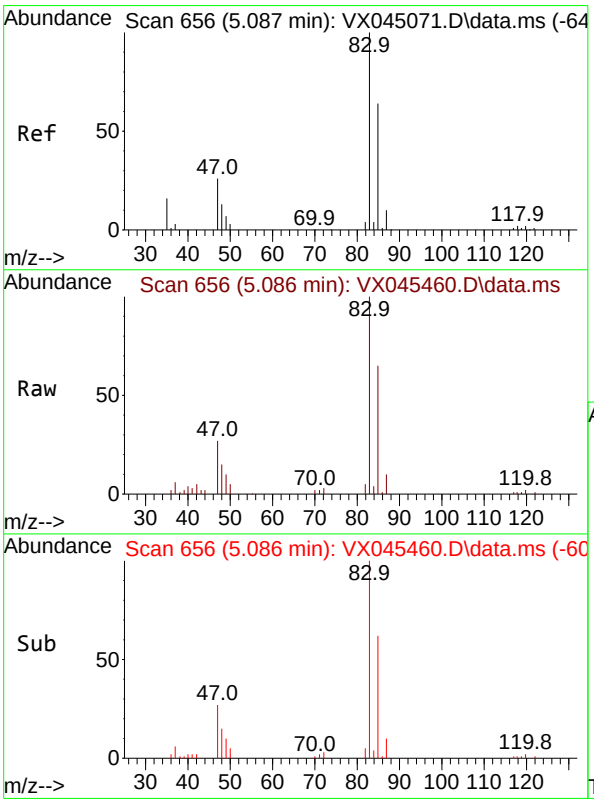
#29
Tetrahydrofuran
Concen: 98.005 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 42 Resp: 62954

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.1	51.1
71	37.8	31.4	47.0

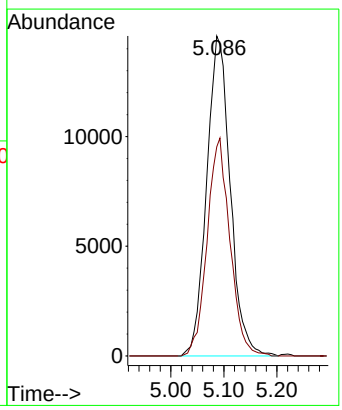


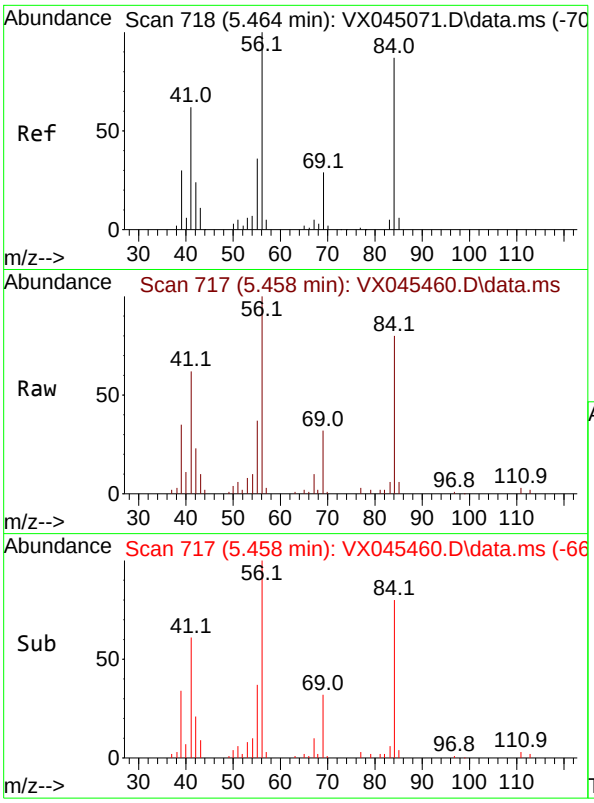


#30
Chloroform
Concen: 21.082 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 83 Resp: 44967

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.4	77.2



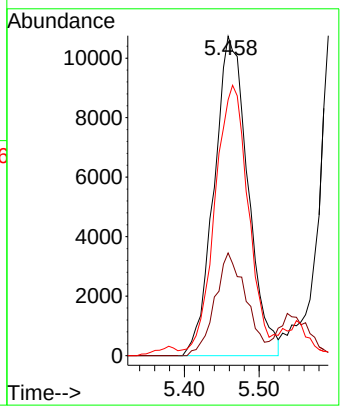


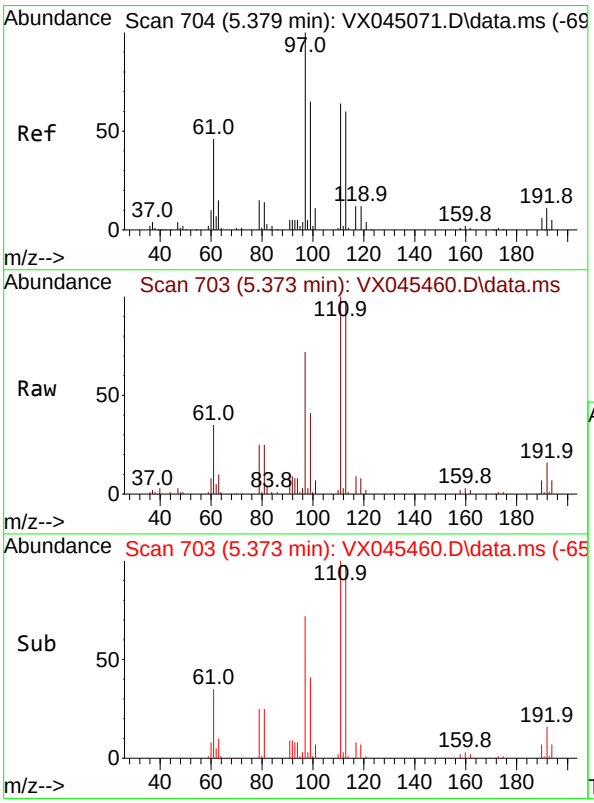
#31
Cyclohexane
Concen: 18.167 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 56 Resp: 33852

Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.4	35.2
84	78.5	69.4	104.2

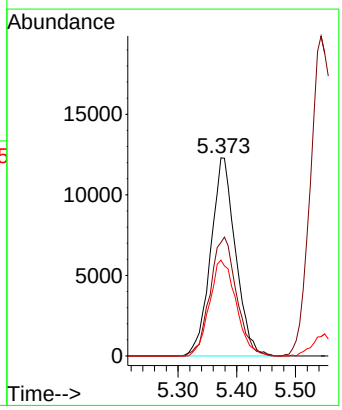


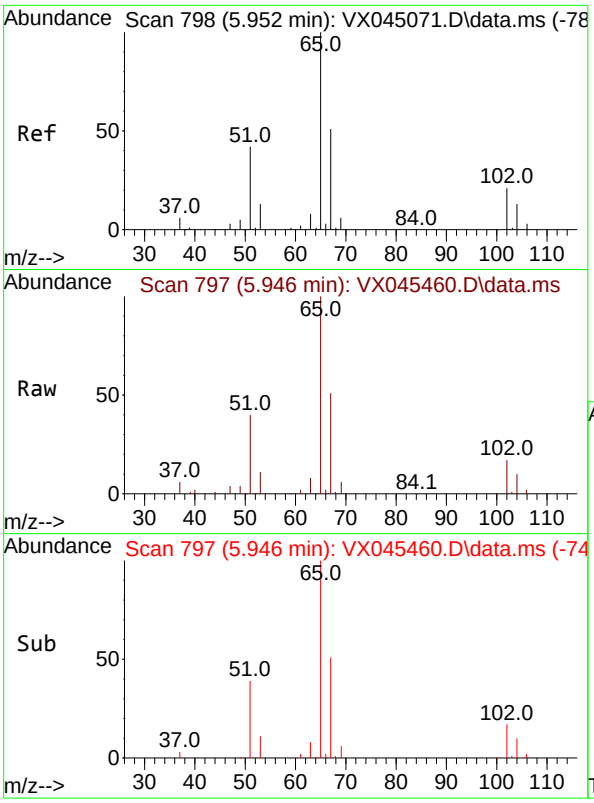


#32
1,1,1-Trichloroethane
Concen: 20.957 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 97 Resp: 36101

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.6	77.4
61	51.7	38.4	57.6



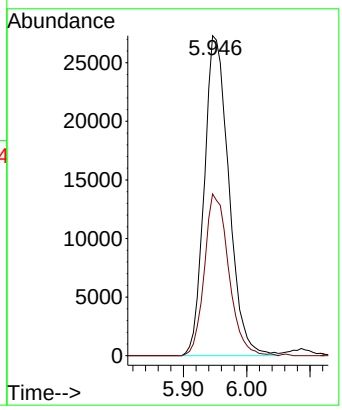


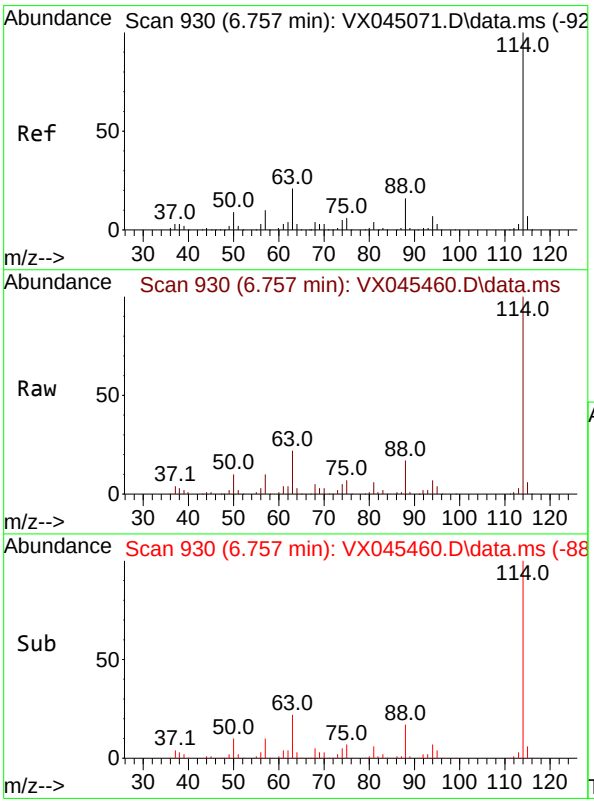
#33
1,2-Dichloroethane-d4
Concen: 53.782 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 65 Resp: 73660

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	106.2

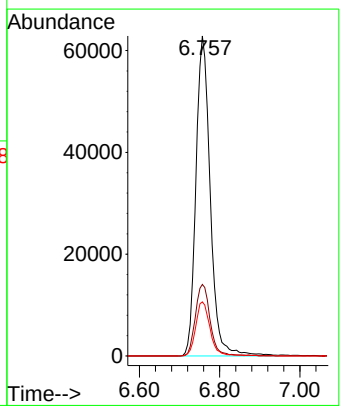


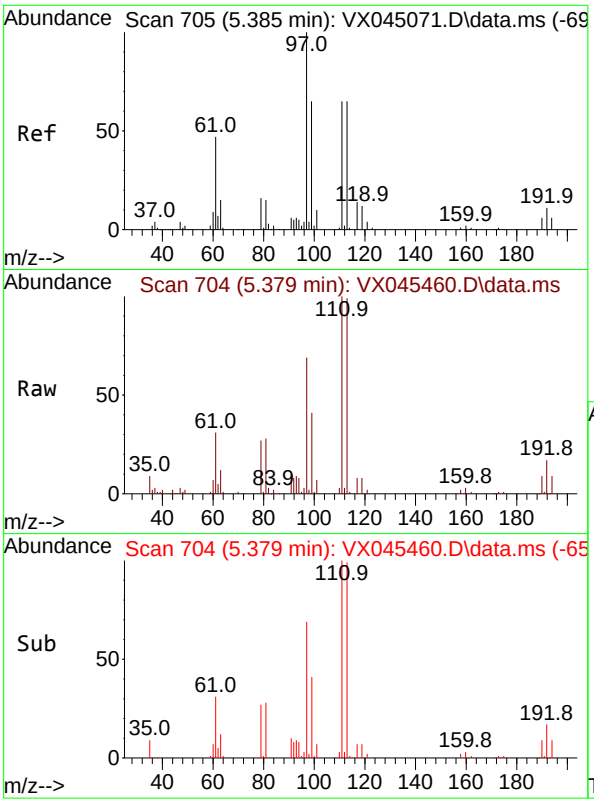


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:114 Resp: 155857

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	41.8
88	16.9	0.0	32.8



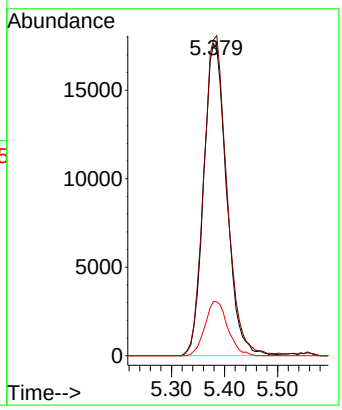


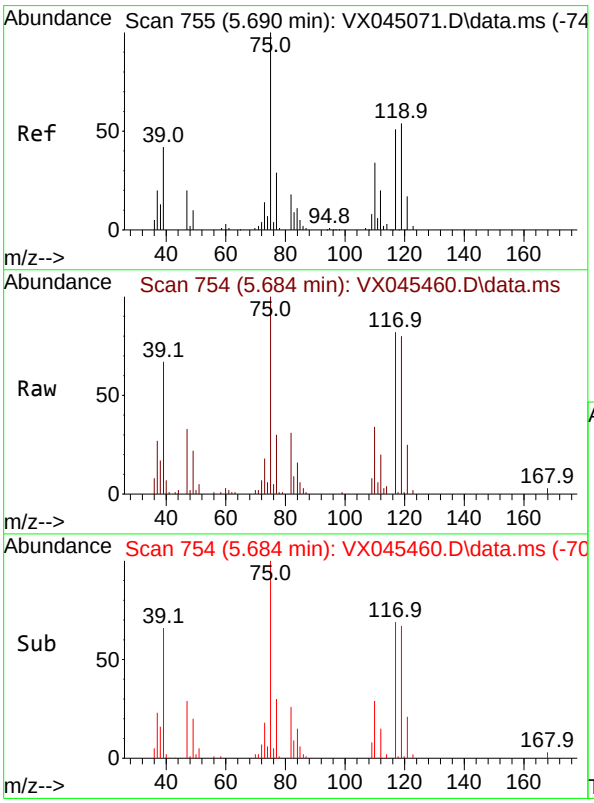
#35
Dibromofluoromethane
Concen: 50.985 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:113 Resp: 53135

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	17.2	14.3	21.5

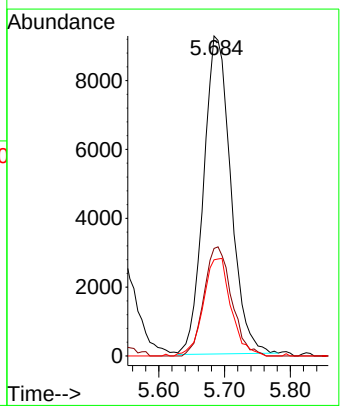


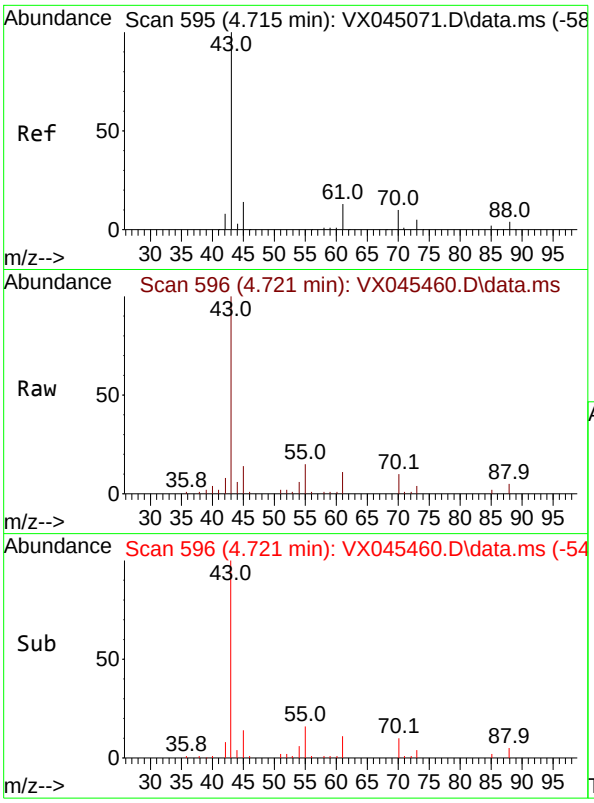


#36
1,1-Dichloropropene
Concen: 18.591 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 26571

Ion	Ratio	Lower	Upper
75	100		
110	34.9	16.9	50.6
77	31.3	24.5	36.7



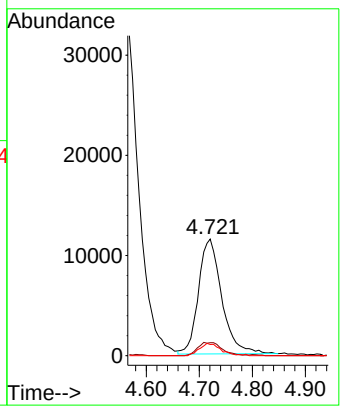


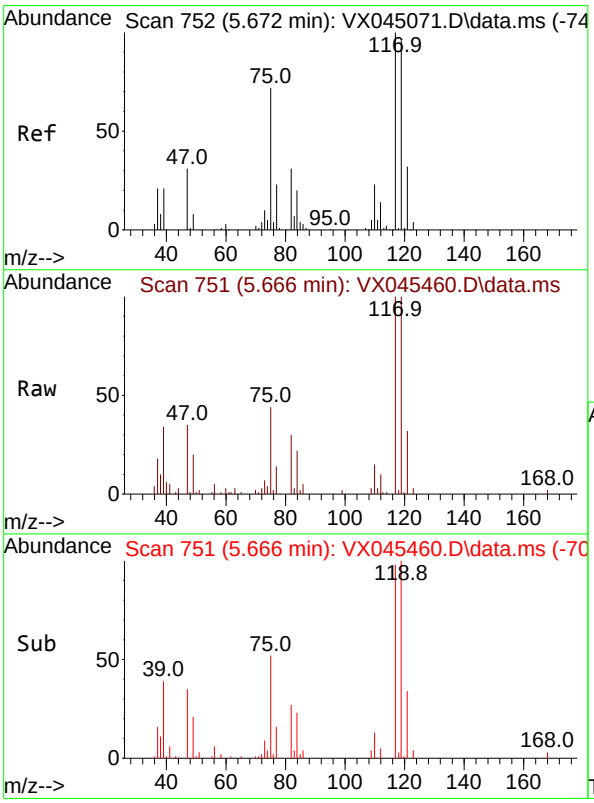
#37
Ethyl Acetate
Concen: 19.012 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 43 Resp: 35014

Ion	Ratio	Lower	Upper
43	100		
61	12.1	10.8	16.2
70	9.8	7.7	11.5

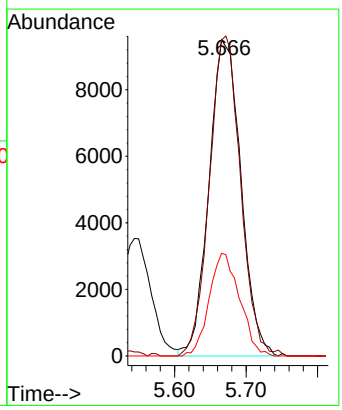


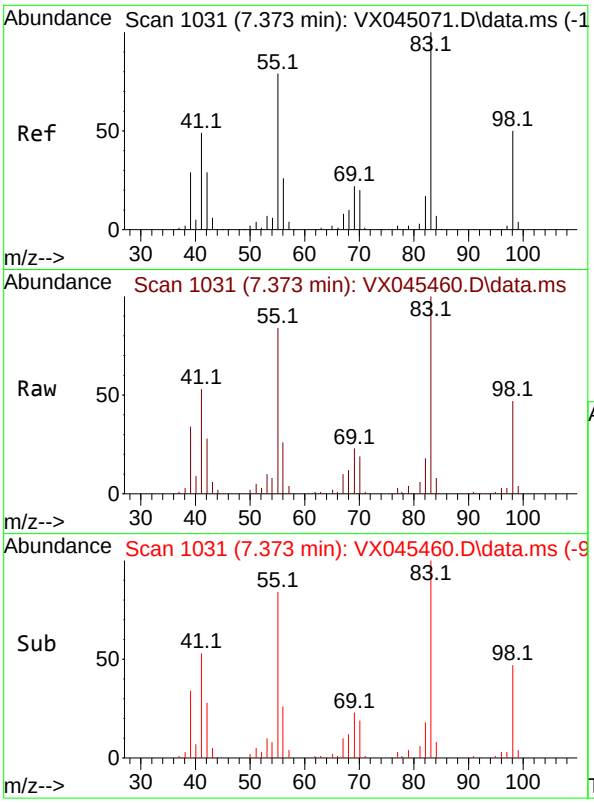


#38
Carbon Tetrachloride
Concen: 20.326 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:117 Resp: 29493

Ion	Ratio	Lower	Upper
117	100		
119	99.9	76.7	115.1
121	32.4	25.5	38.3



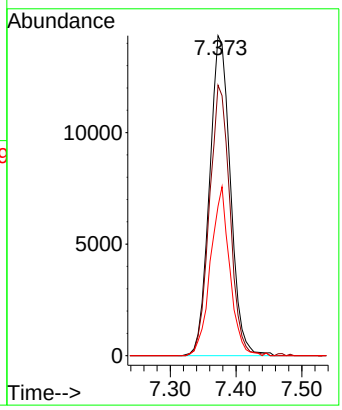


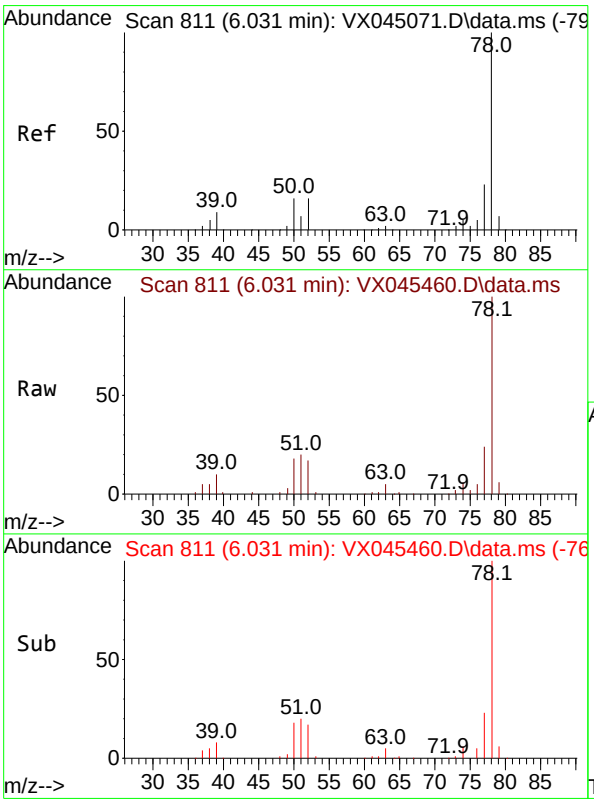
#39
Methylcyclohexane
Concen: 18.531 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 83 Resp: 31736

Ion	Ratio	Lower	Upper
83	100		
55	84.5	63.0	94.4
98	46.7	39.7	59.5

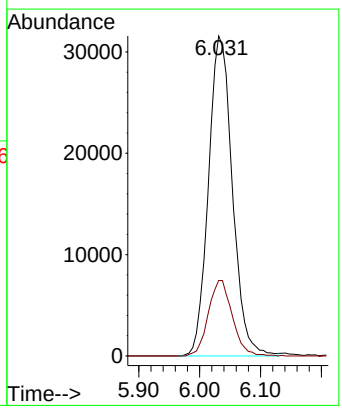


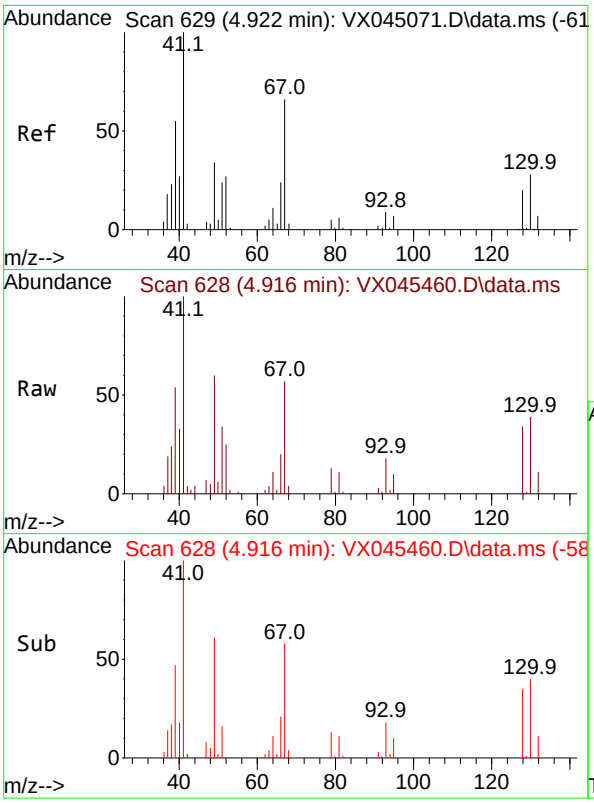


#40
Benzene
Concen: 19.110 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 78 Resp: 86246

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2



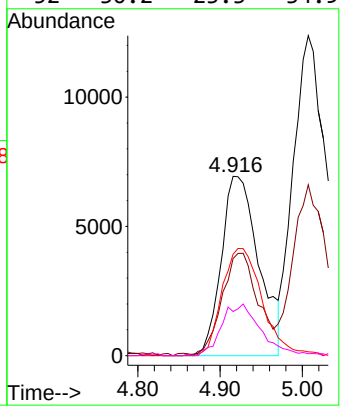


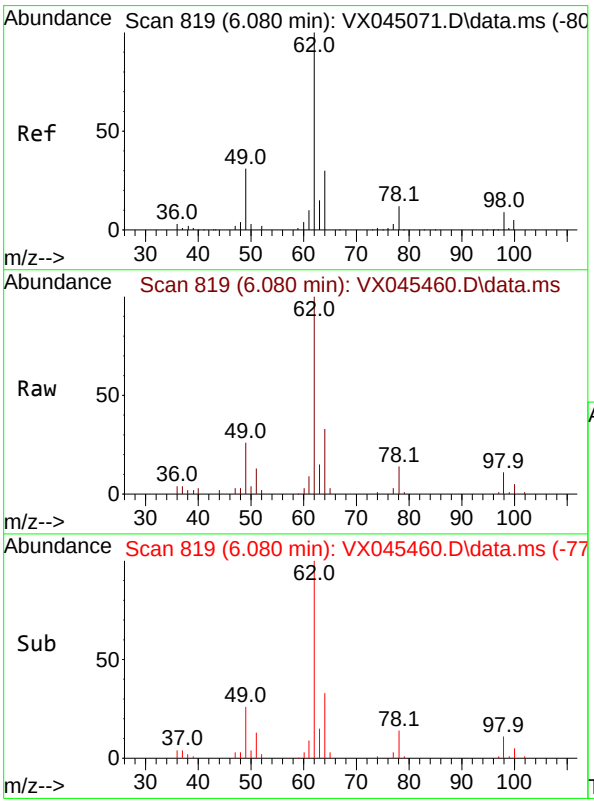
#41
Methacrylonitrile
Concen: 22.162 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 41 Resp: 22069

Ion	Ratio	Lower	Upper
41	100		
39	54.6	44.6	67.0
67	64.0	53.9	80.9
52	30.2	23.3	34.9

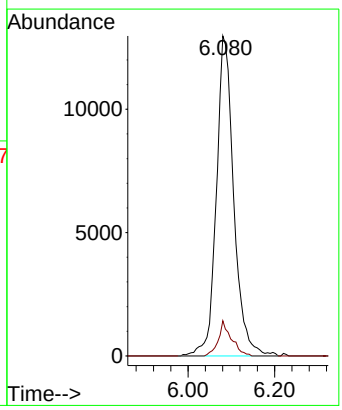


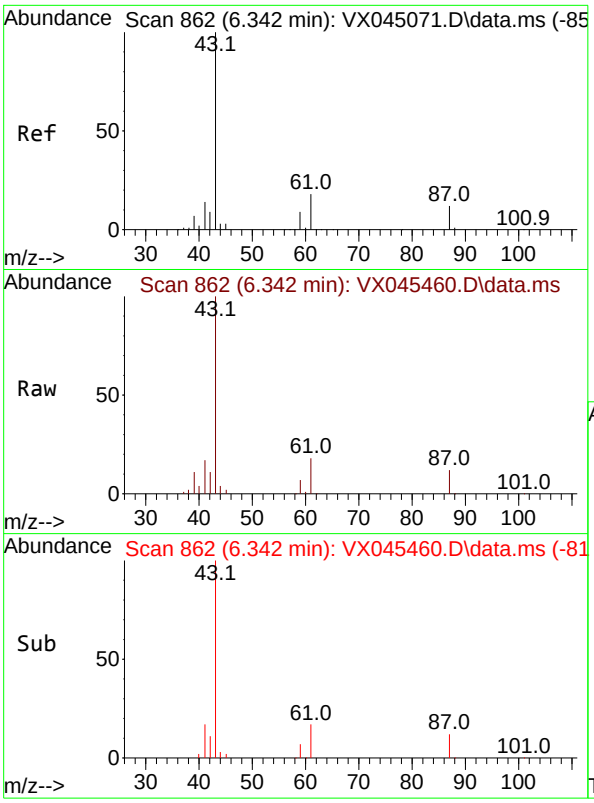


#42
1,2-Dichloroethane
Concen: 22.326 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 62 Resp: 36284

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	18.2



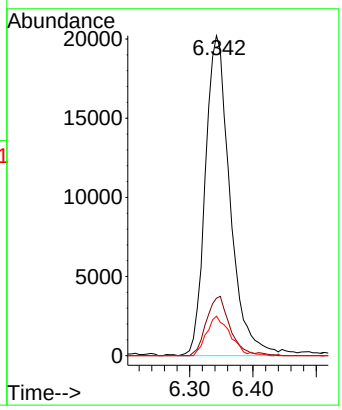


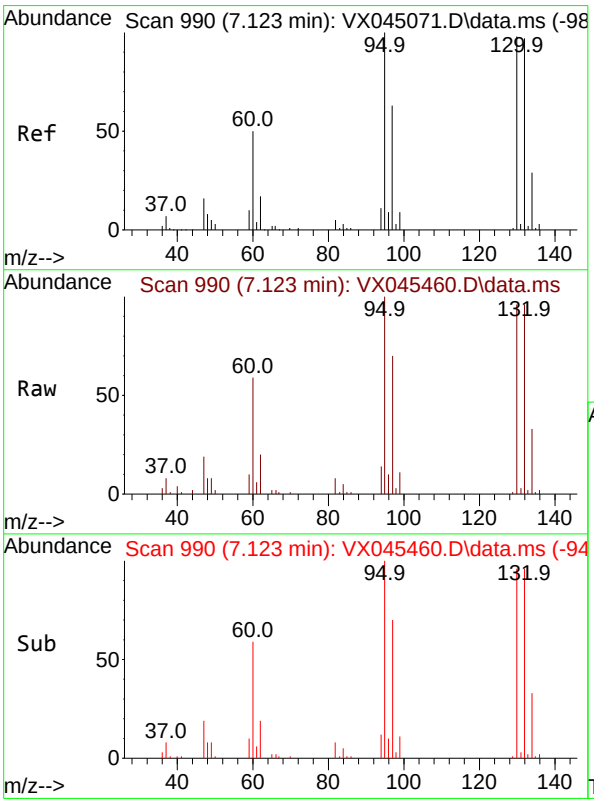
#43
Isopropyl Acetate
Concen: 20.052 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 43 Resp: 54608

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.9	22.3
87	12.0	9.4	14.2

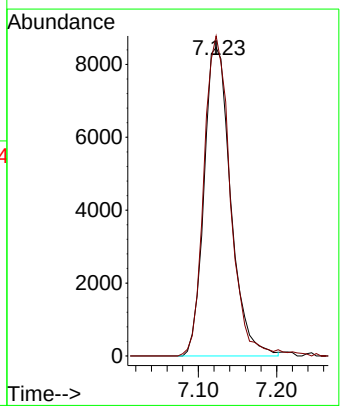


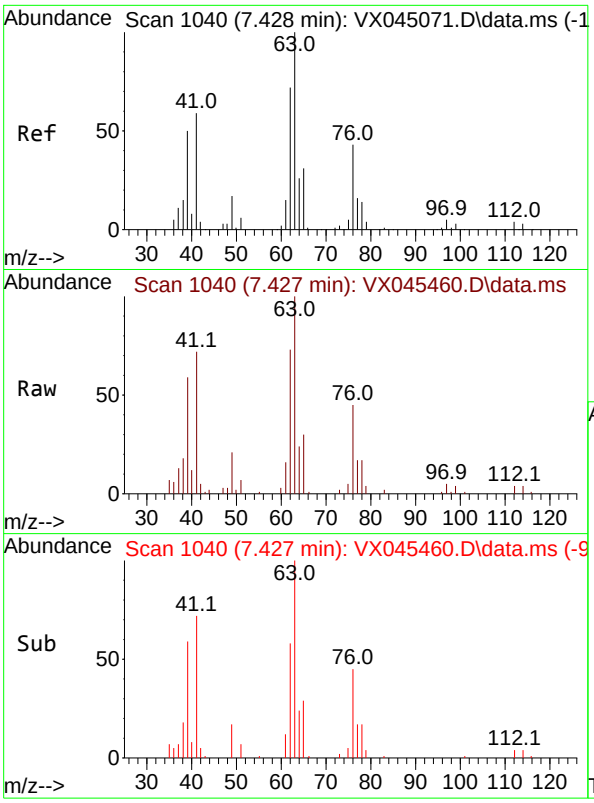


#44
Trichloroethene
Concen: 18.935 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:130 Resp: 20066

Ion	Ratio	Lower	Upper
130	100		
95	103.8	0.0	205.0



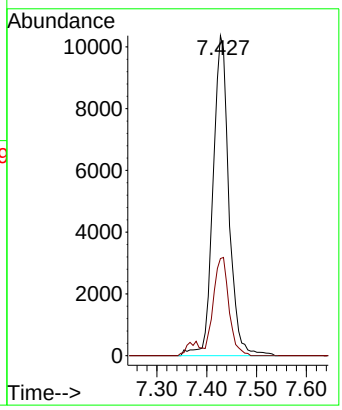


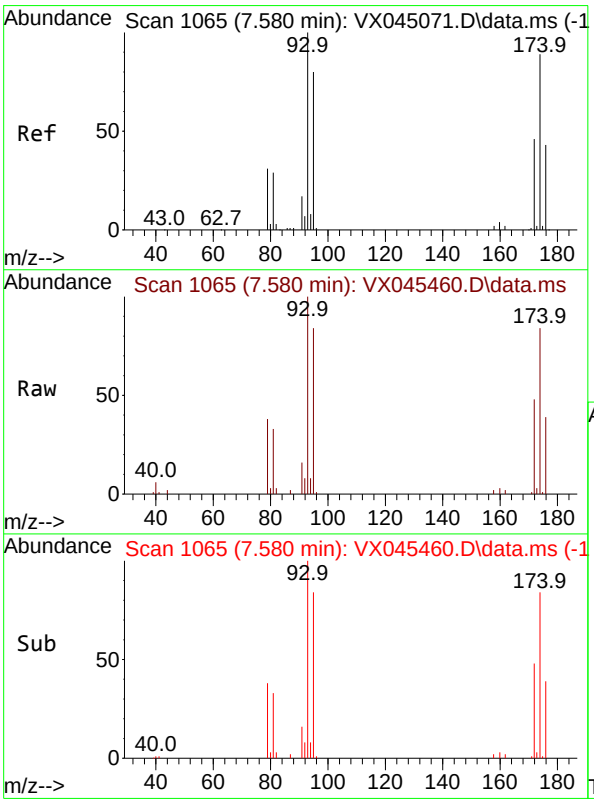
#45
1,2-Dichloropropane
Concen: 19.811 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 63 Resp: 22989

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.7	37.1

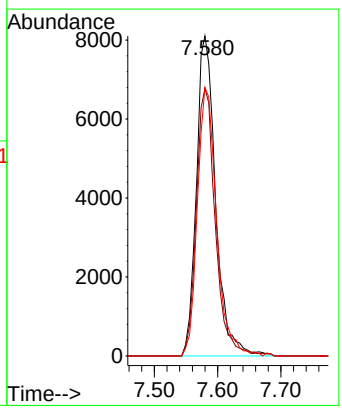


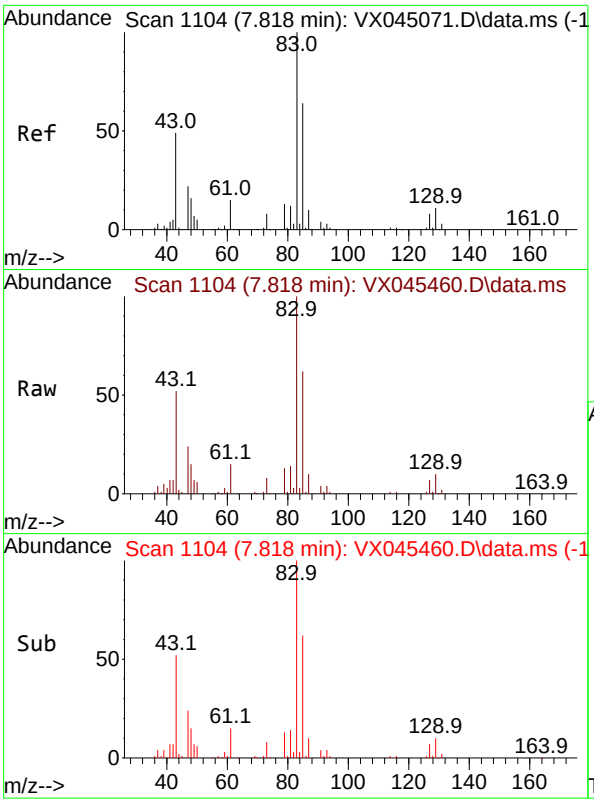


#46
Dibromomethane
Concen: 20.875 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 93 Resp: 17121

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.8	98.8
174	84.0	72.2	108.2



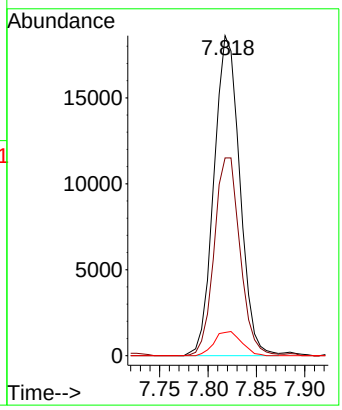


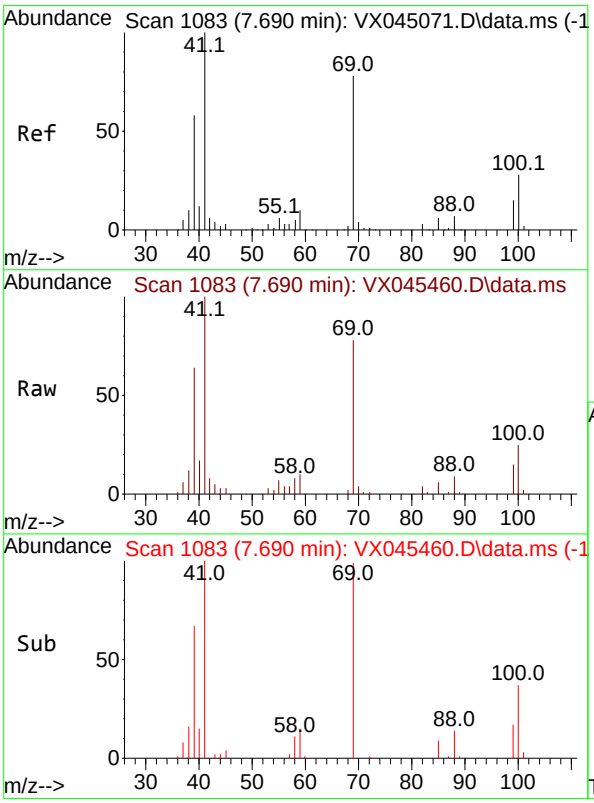
#47
Bromodichloromethane
Concen: 21.480 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 83 Resp: 34556

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	7.2	6.4	9.6

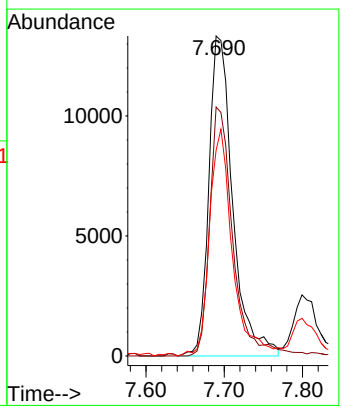


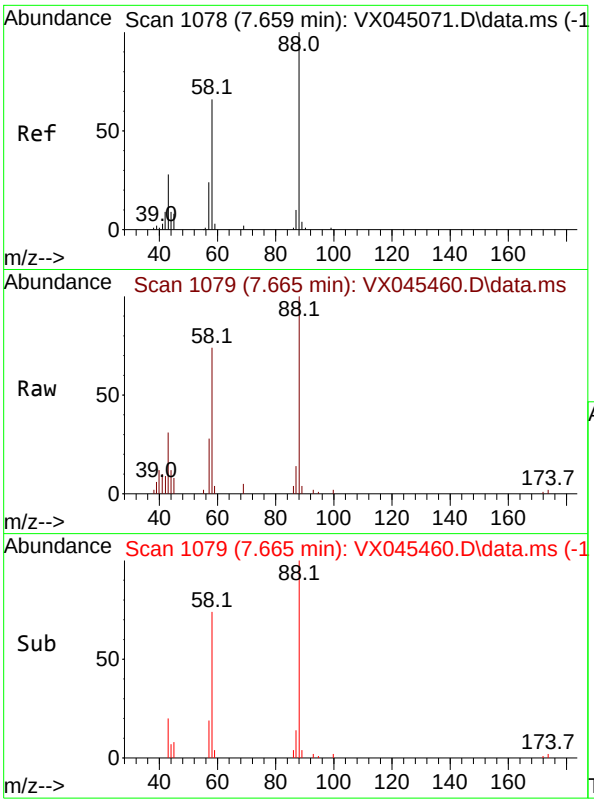


#48
Methyl methacrylate
Concen: 20.690 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 41 Resp: 28268

Ion	Ratio	Lower	Upper
41	100		
69	75.7	63.0	94.6
39	67.5	47.5	71.3



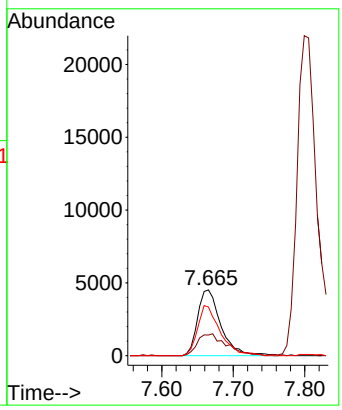


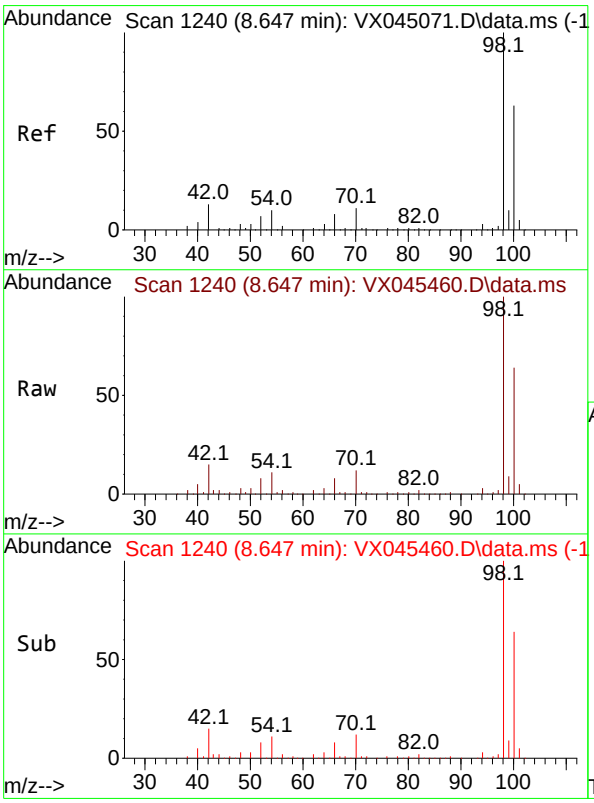
#49
1,4-Dioxane
Concen: 351.704 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 88 Resp: 10136

Ion	Ratio	Lower	Upper
88	100		
43	41.4	28.7	43.1
58	74.0	55.8	83.8

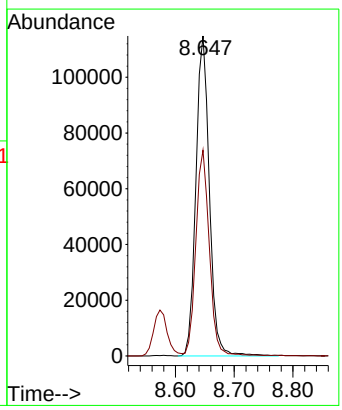


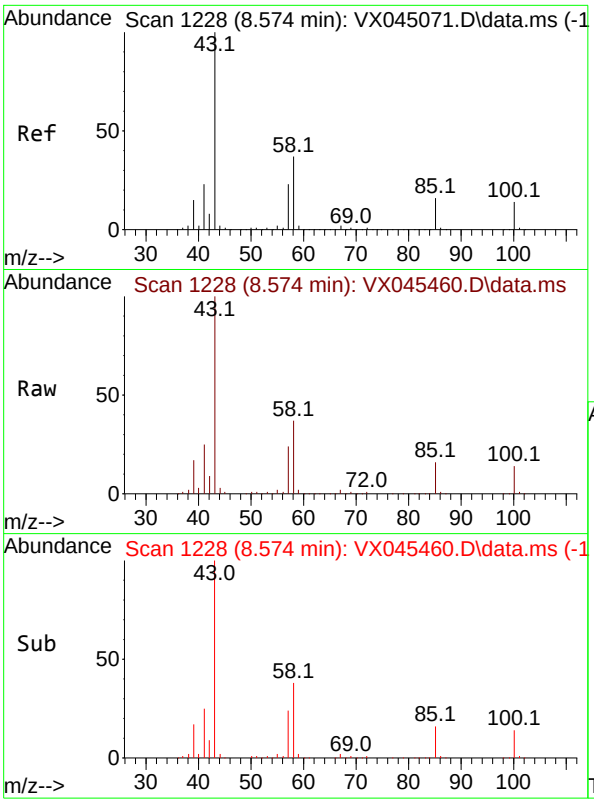


#50
Toluene-d8
Concen: 48.337 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 98 Resp: 182631

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0



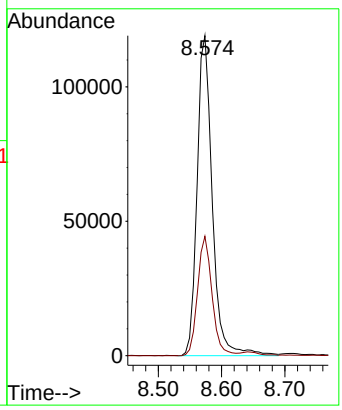


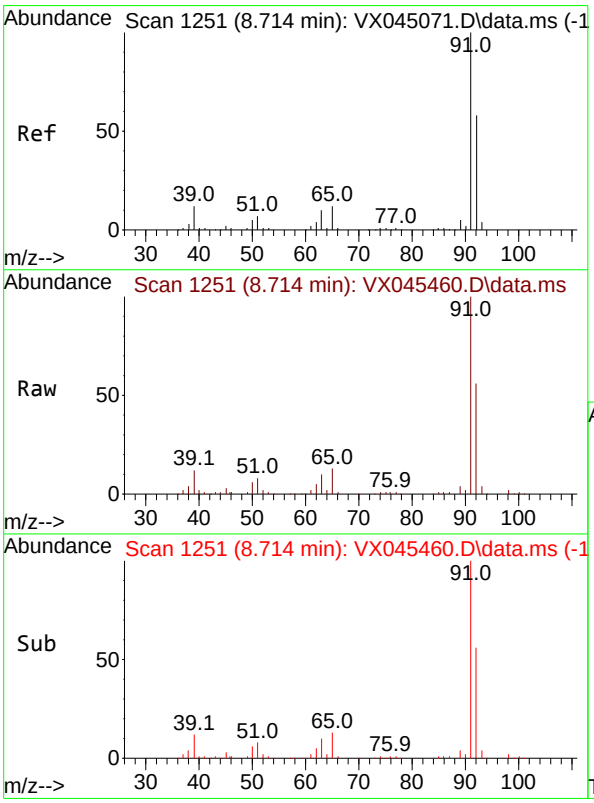
#51
4-Methyl-2-Pentanone
Concen: 109.058 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 43 Resp: 199417

Ion	Ratio	Lower	Upper
43	100		
58	35.4	29.2	43.8

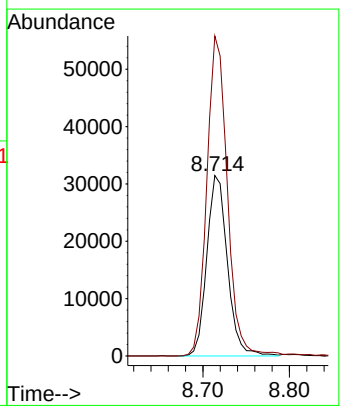


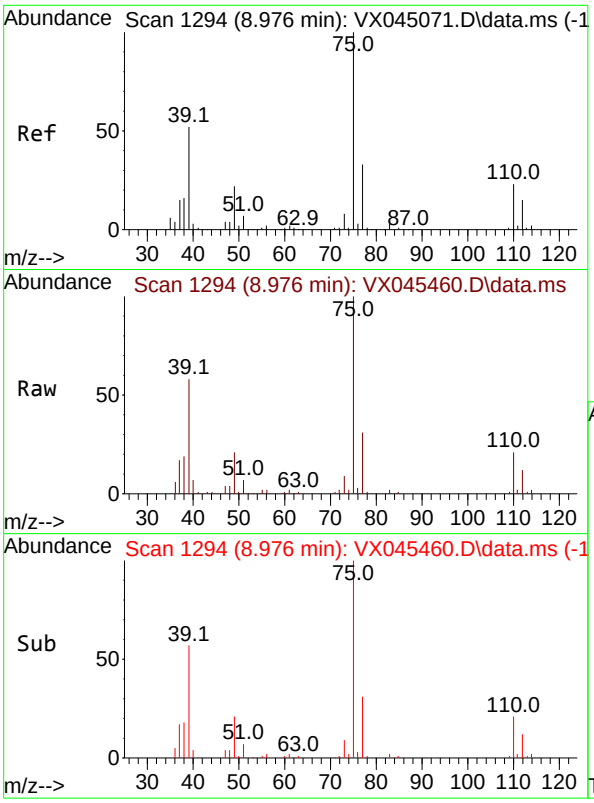


#52
Toluene
Concen: 19.678 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 92 Resp: 52106

Ion	Ratio	Lower	Upper
92	100		
91	177.1	138.9	208.3



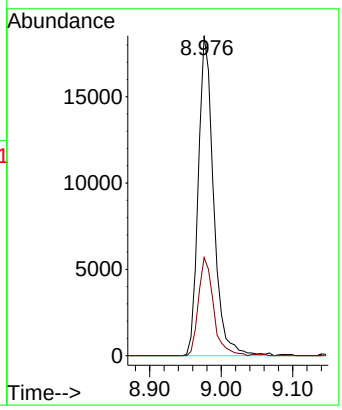


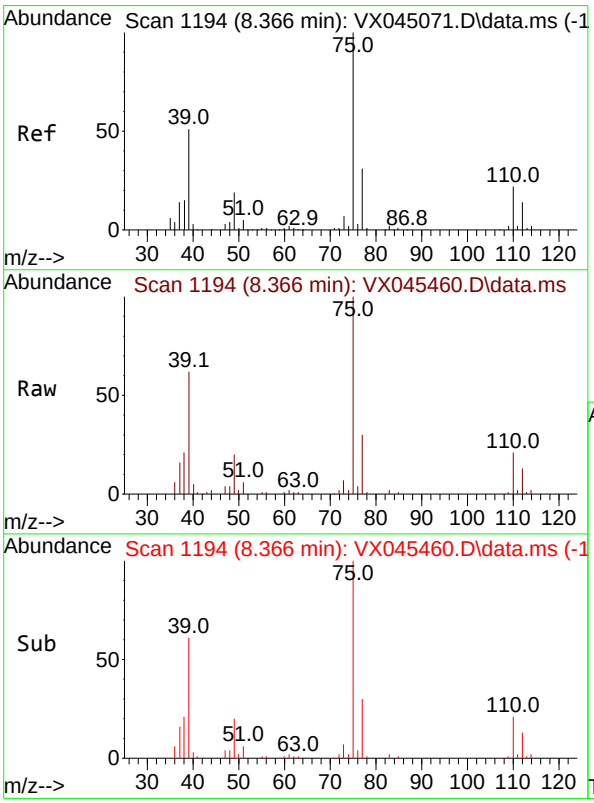
#53
t-1,3-Dichloropropene
Concen: 20.430 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 75 Resp: 27477

Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.5	39.7

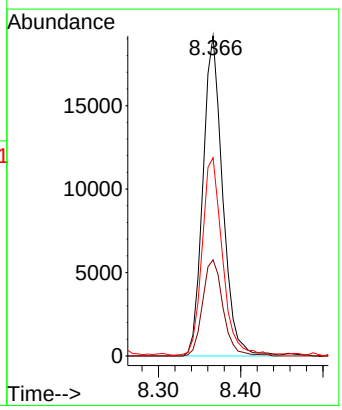


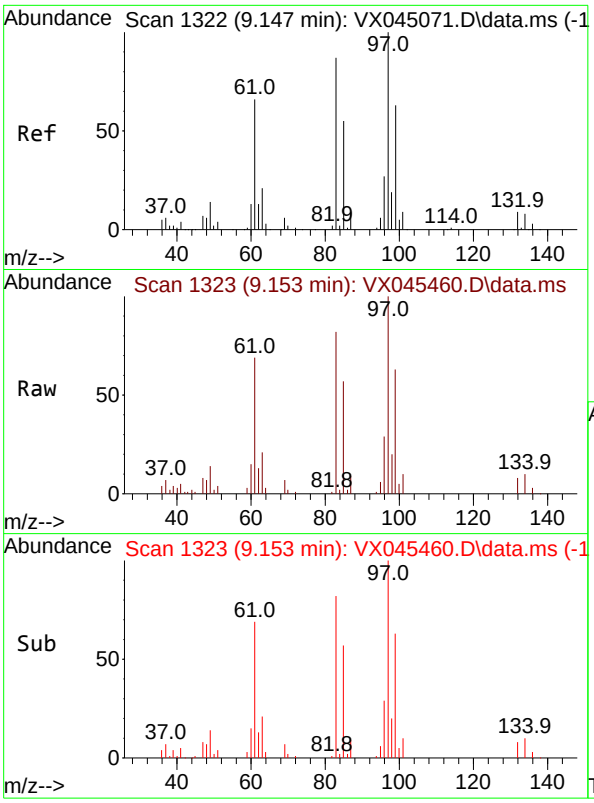


#54
cis-1,3-Dichloropropene
Concen: 20.346 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 31909

Ion	Ratio	Lower	Upper
75	100		
77	30.1	24.7	37.1
39	61.6	40.7	61.1#



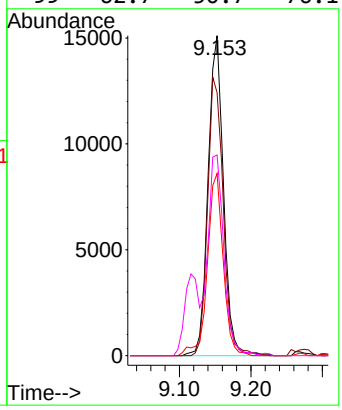


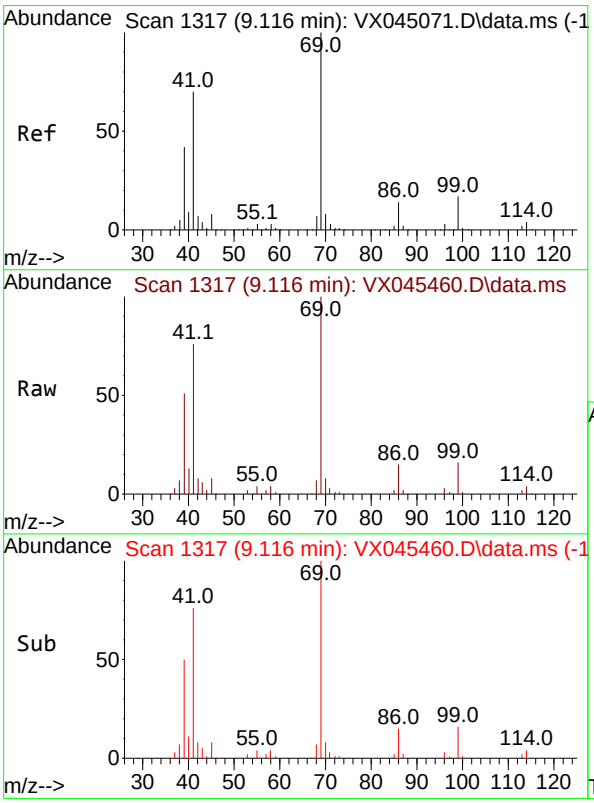
#55
1,1,2-Trichloroethane
Concen: 20.683 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 97 Resp: 22547

Ion	Ratio	Lower	Upper
97	100		
83	82.2	69.4	104.2
85	56.9	44.1	66.1
99	62.7	50.7	76.1

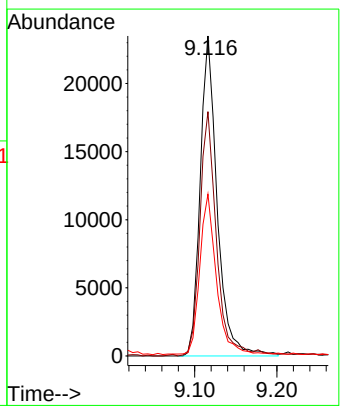


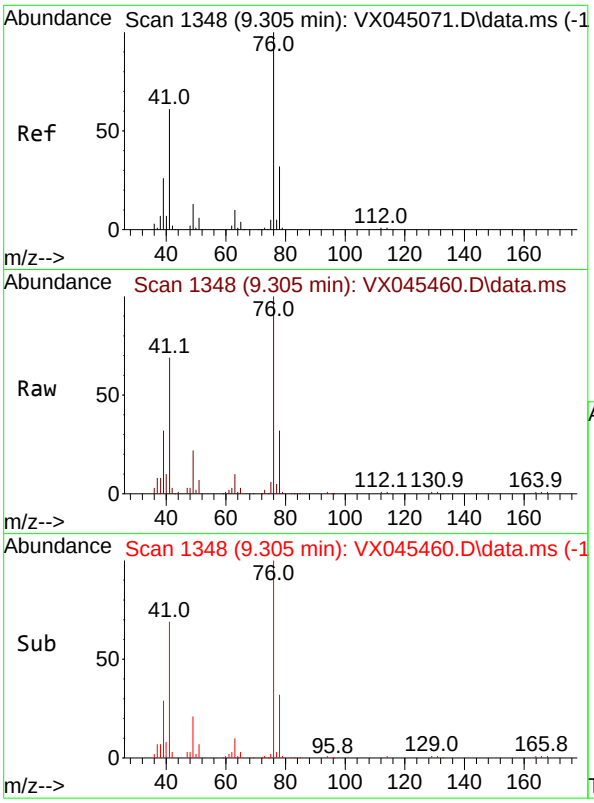


#56
Ethyl methacrylate
Concen: 20.393 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 69 Resp: 33792

Ion	Ratio	Lower	Upper
69	100		
41	75.3	57.0	85.4
39	48.9	34.2	51.4



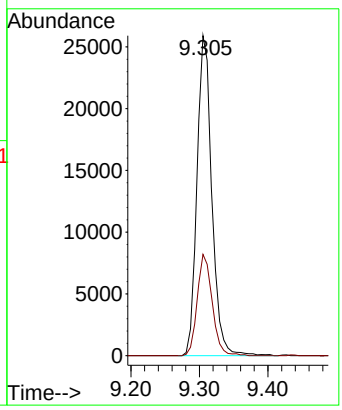


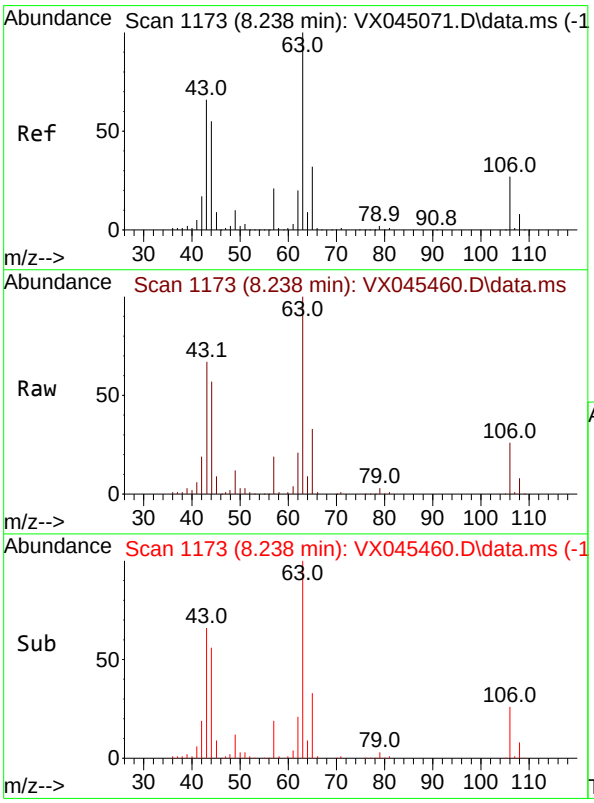
#57
1,3-Dichloropropane
Concen: 20.731 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 76 Resp: 39109

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

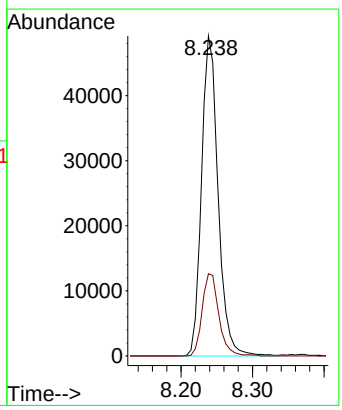


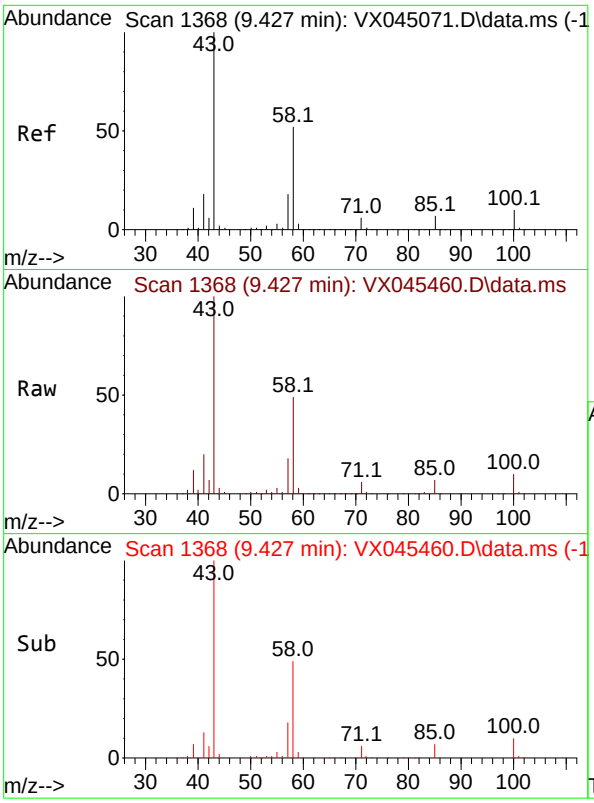


#58
2-Chloroethyl Vinyl ether
Concen: 97.641 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 63 Resp: 78925

Ion	Ratio	Lower	Upper
63	100		
106	25.9	21.5	32.3



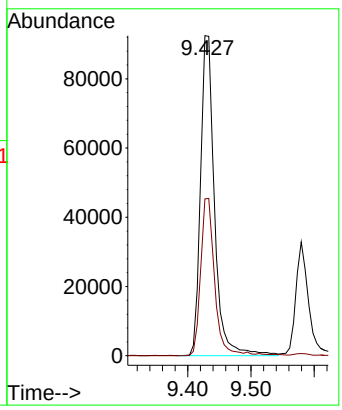


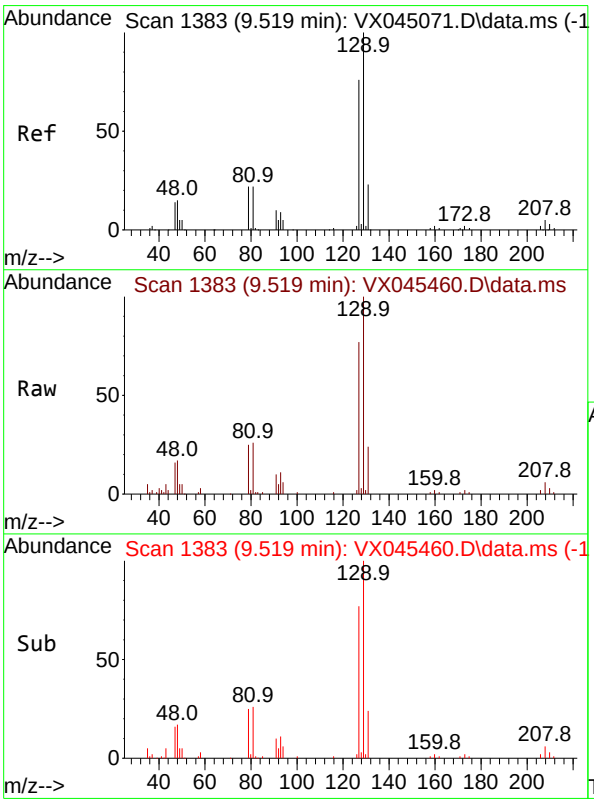
#59
2-Hexanone
Concen: 107.905 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 43 Resp: 142958

Ion	Ratio	Lower	Upper
43	100		
58	48.7	25.9	77.6

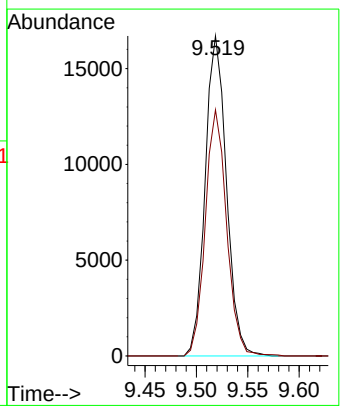


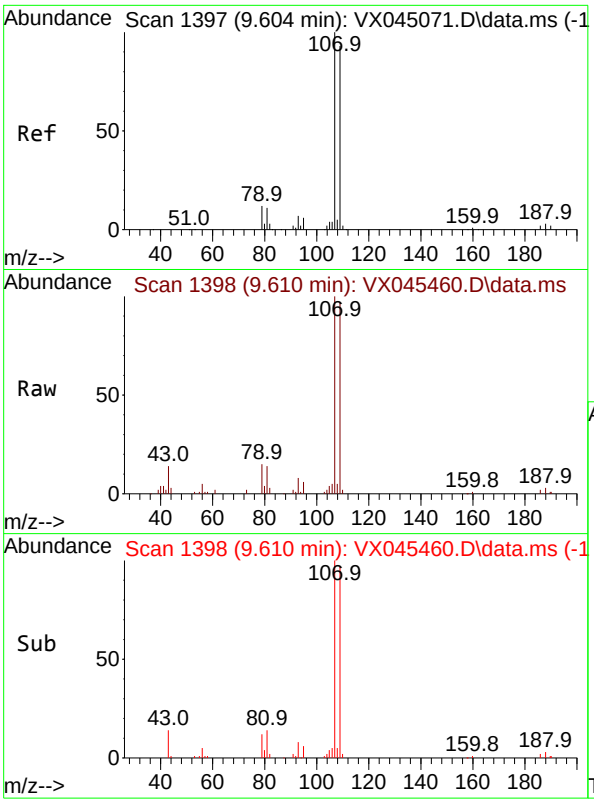


#60
Dibromochloromethane
Concen: 21.089 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:129 Resp: 24038

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5



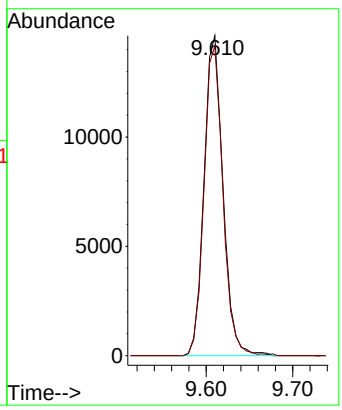


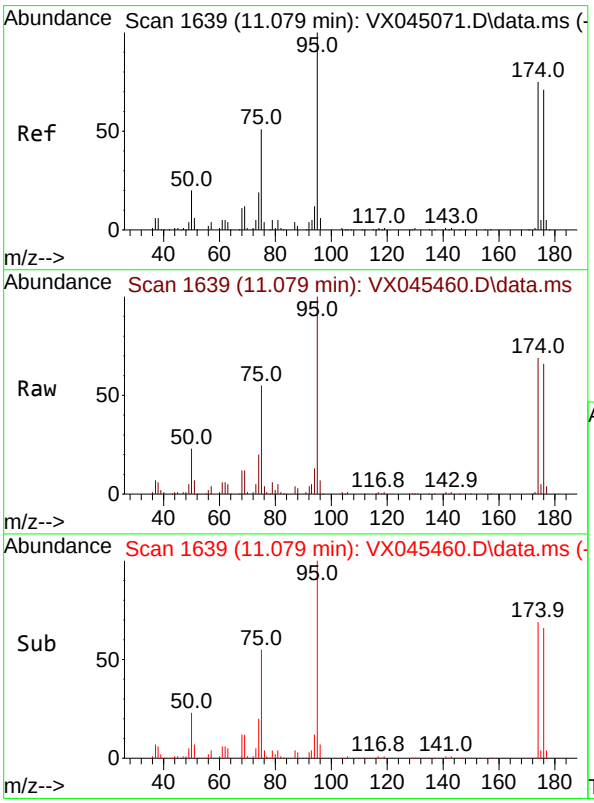
#61
1,2-Dibromoethane
Concen: 20.441 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:107 Resp: 22245

Ion	Ratio	Lower	Upper
107	100		
109	96.6	76.1	114.1

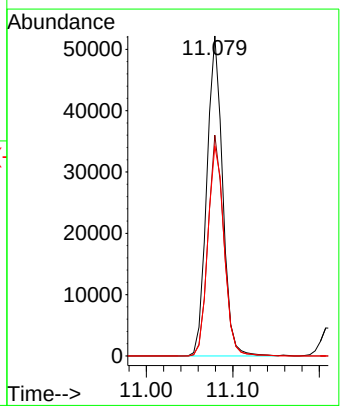


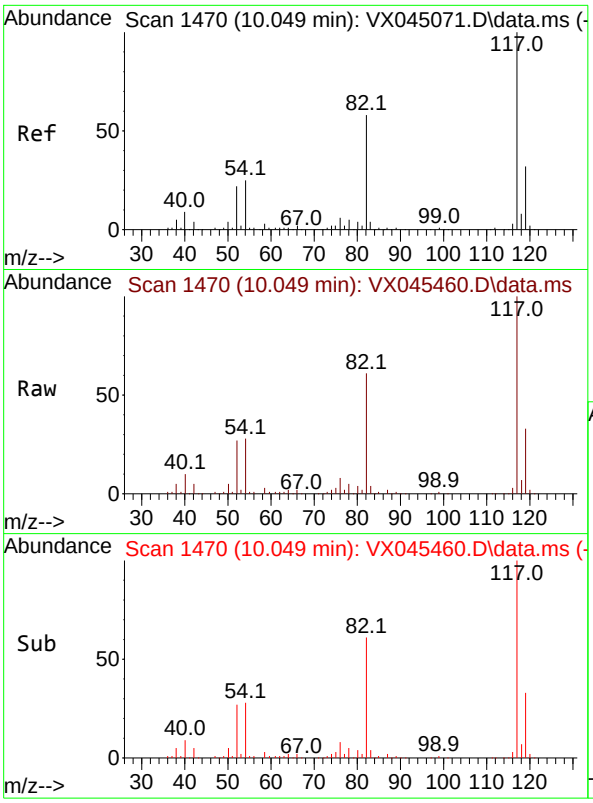


#62
4-Bromofluorobenzene
Concen: 52.753 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 95 Resp: 66047

Ion	Ratio	Lower	Upper
95	100		
174	68.6	0.0	148.2
176	67.7	0.0	141.4



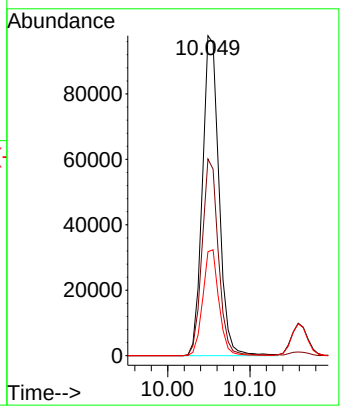


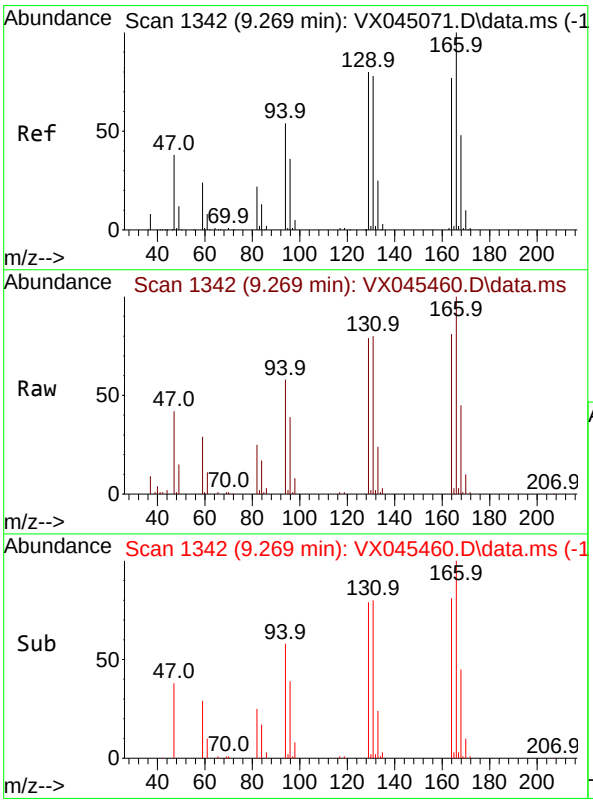
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:117 Resp: 136930

Ion	Ratio	Lower	Upper
117	100		
82	61.4	46.3	69.5
119	32.5	25.7	38.5

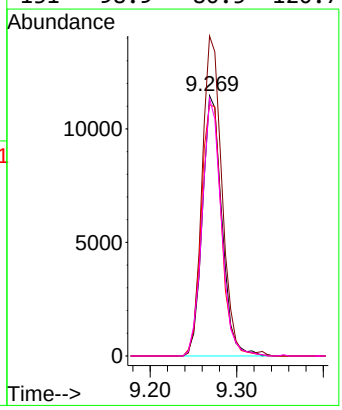


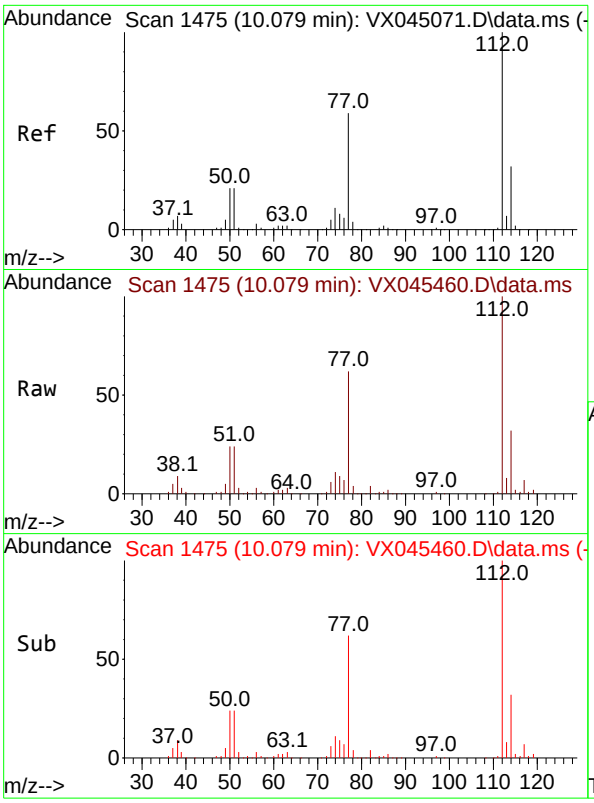


#64
Tetrachloroethene
Concen: 20.382 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:164 Resp: 17875

Ion	Ratio	Lower	Upper
164	100		
166	122.9	103.6	155.4
129	96.5	82.7	124.1
131	98.9	80.5	120.7



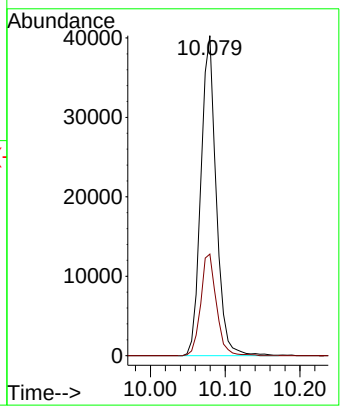


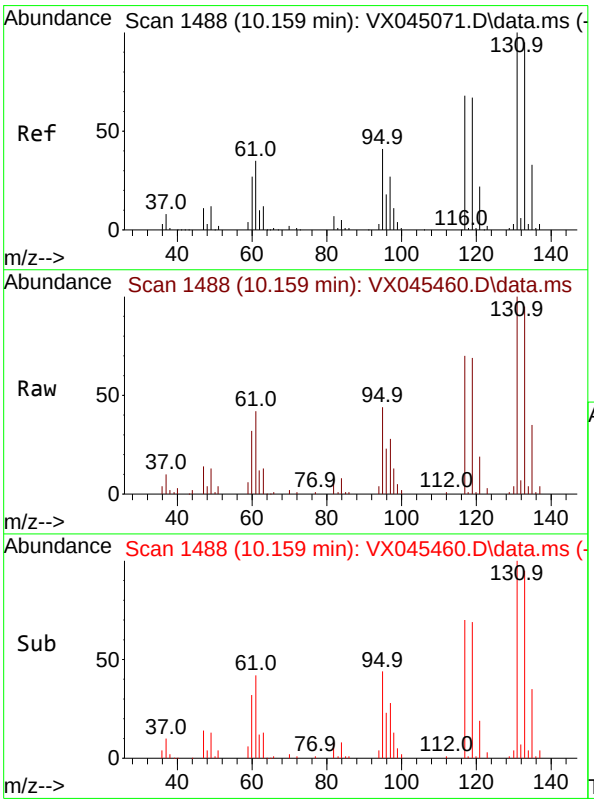
#65
Chlorobenzene
Concen: 19.767 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:112 Resp: 57272

Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.0	39.0

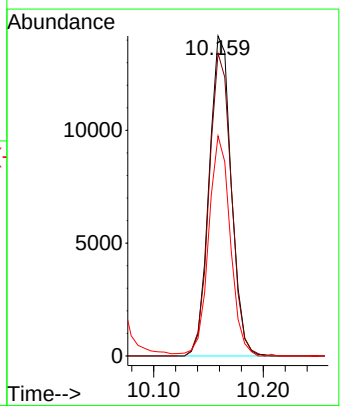


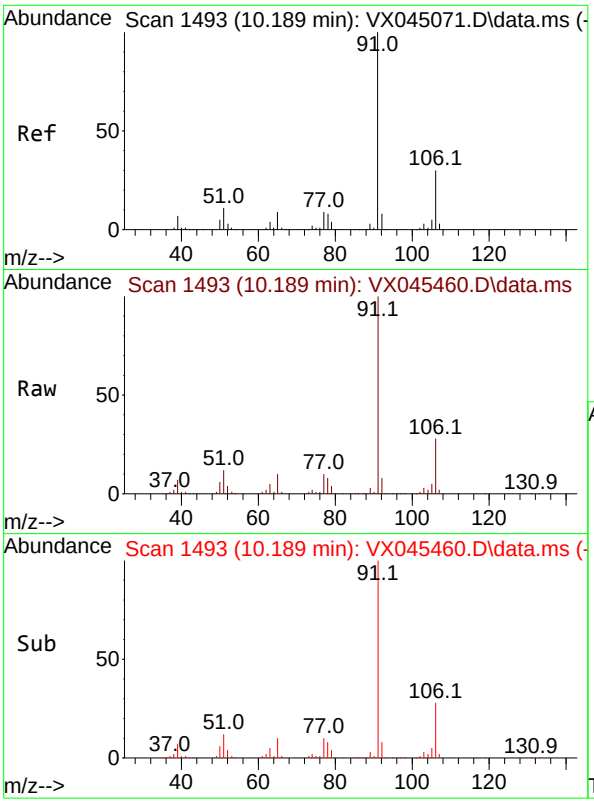


#66
1,1,1,2-Tetrachloroethane
Concen: 20.594 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:131 Resp: 19871

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.6	145.9
119	67.3	33.9	101.7



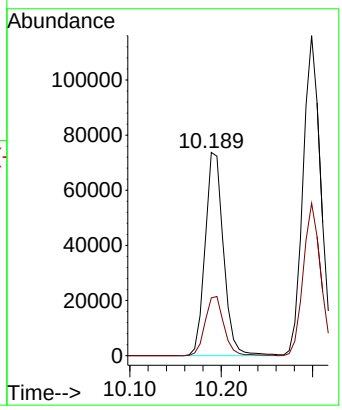


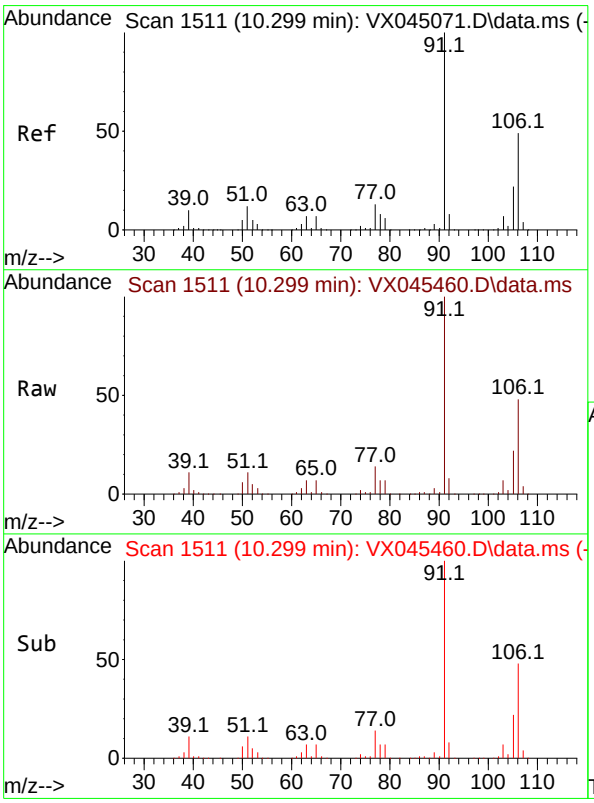
#67
Ethyl Benzene
Concen: 20.364 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 91 Resp: 102810

Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.9	35.9

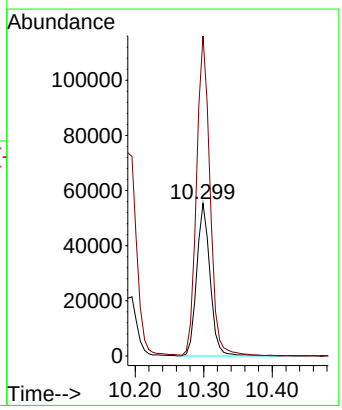


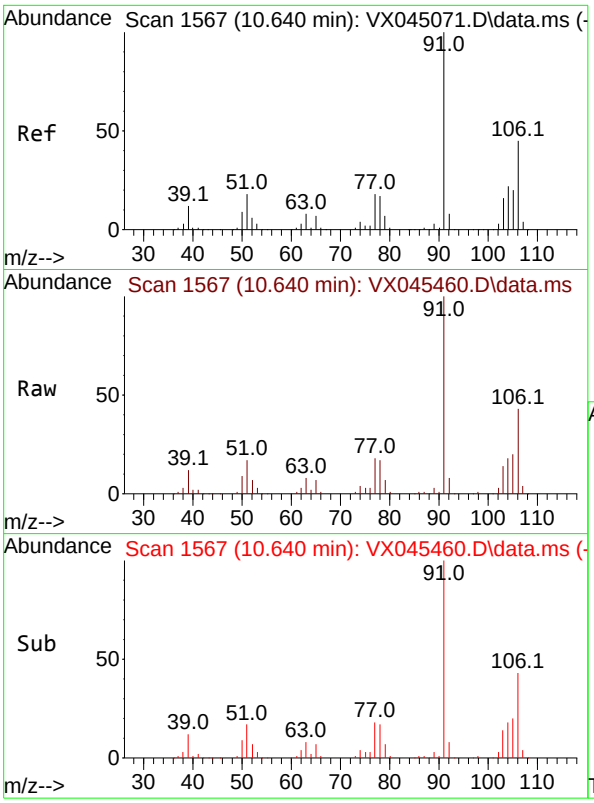


#68
m/p-Xylenes
Concen: 40.767 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:106 Resp: 75344

Ion	Ratio	Lower	Upper
106	100		
91	210.6	165.4	248.0



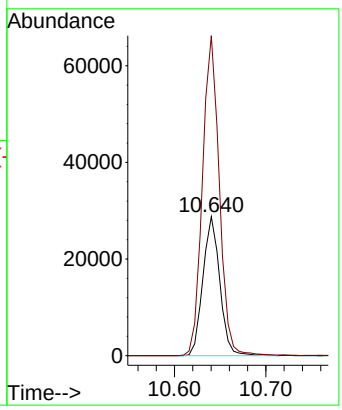


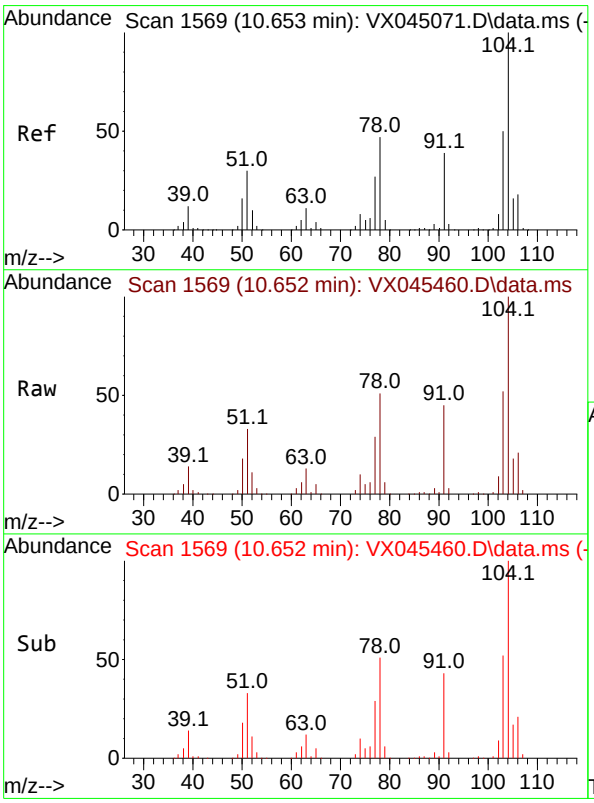
#69
o-Xylene
Concen: 19.798 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:106 Resp: 36903

Ion	Ratio	Lower	Upper
106	100		
91	230.3	109.9	329.6

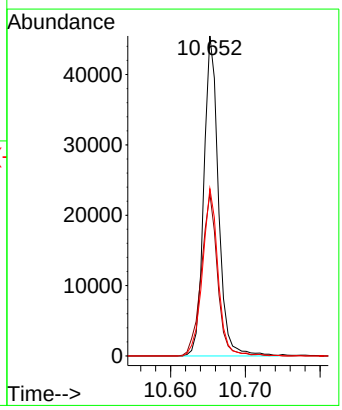


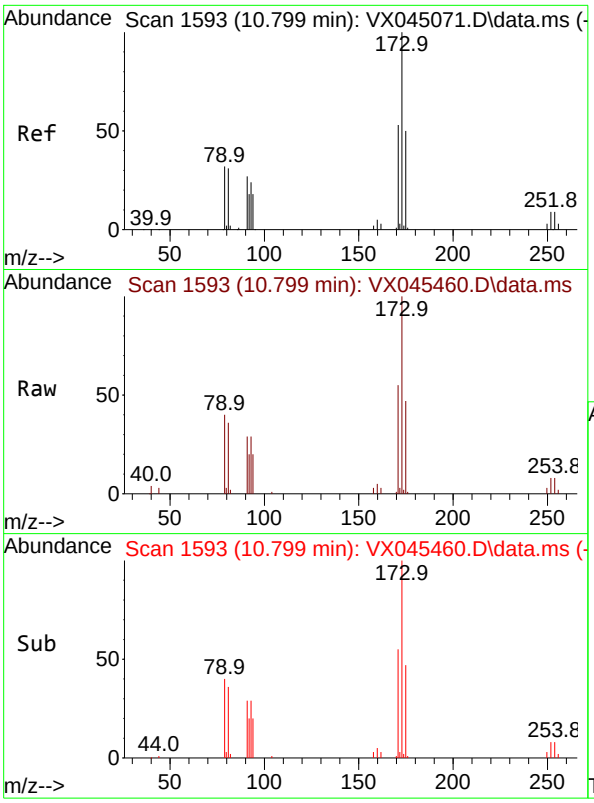


#70
Styrene
Concen: 20.504 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:104 Resp: 61842

Ion	Ratio	Lower	Upper
104	100		
78	56.0	42.2	63.4
103	55.7	43.8	65.8



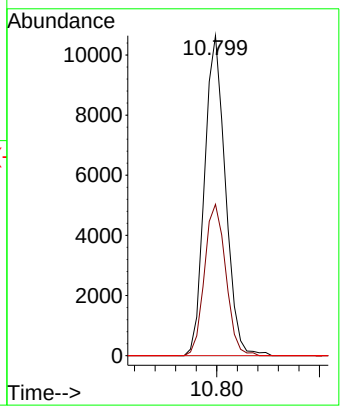


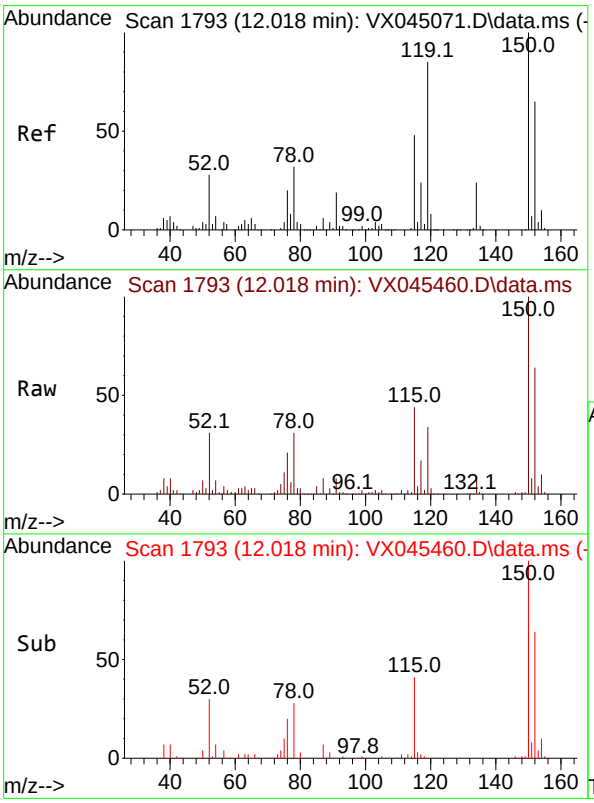
#71
Bromoform
Concen: 20.555 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:173 Resp: 14956

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.6	73.6
254	0.0	0.0	0.0

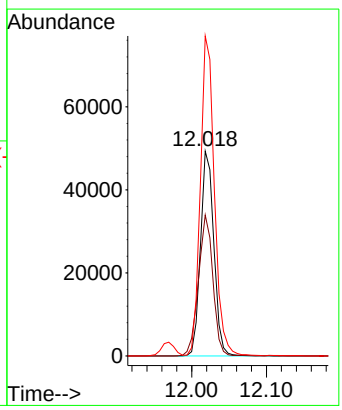


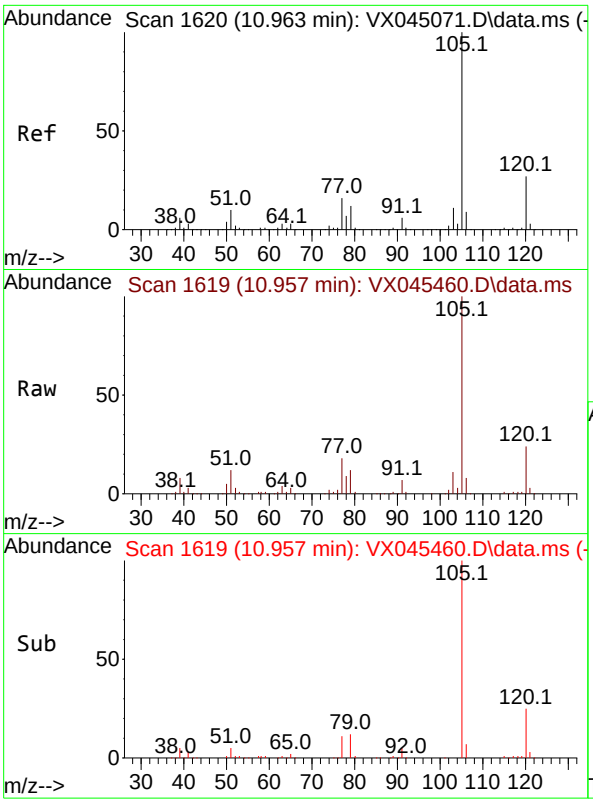


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:152 Resp: 61262

Ion	Ratio	Lower	Upper
152	100		
115	74.3	44.2	132.6
150	163.5	0.0	349.0



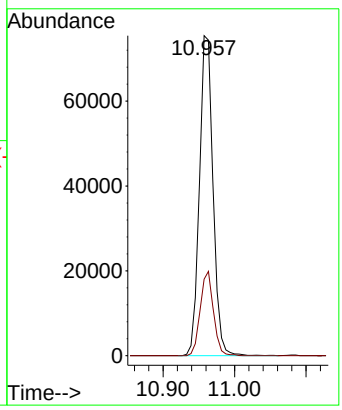


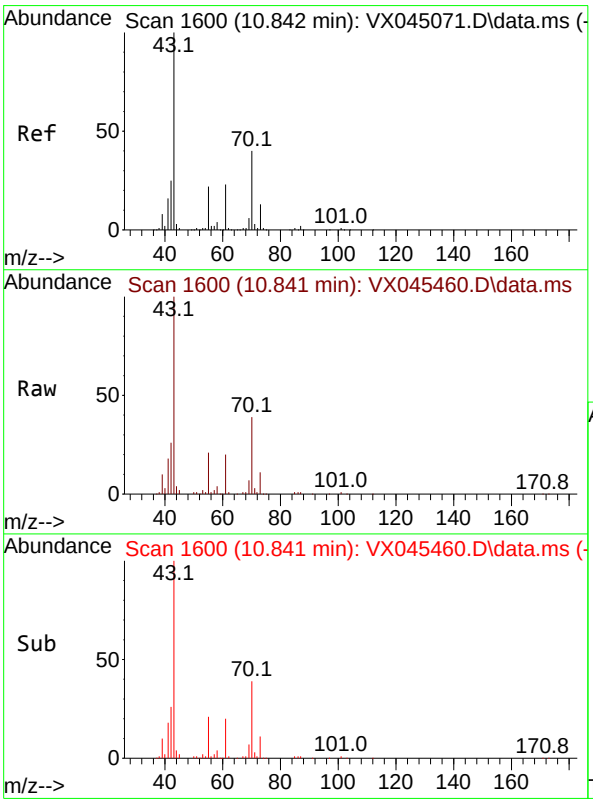
#73
Isopropylbenzene
Concen: 20.856 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:105 Resp: 99726

Ion	Ratio	Lower	Upper
105	100		
120	25.5	13.2	39.5

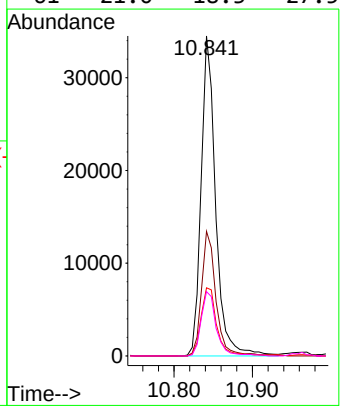


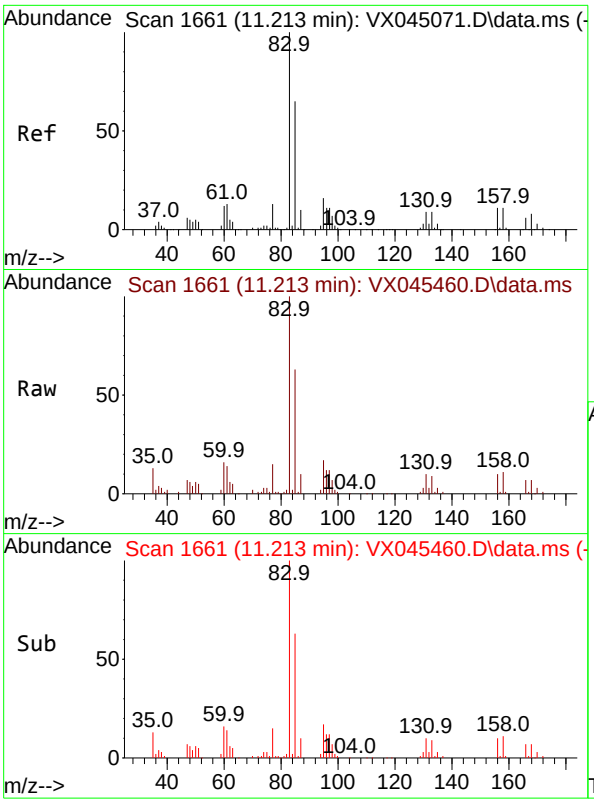


#74
N-amyl acetate
Concen: 19.807 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 43 Resp: 44441

Ion	Ratio	Lower	Upper
43	100		
70	38.7	31.8	47.6
55	23.4	18.3	27.5
61	21.0	18.3	27.5



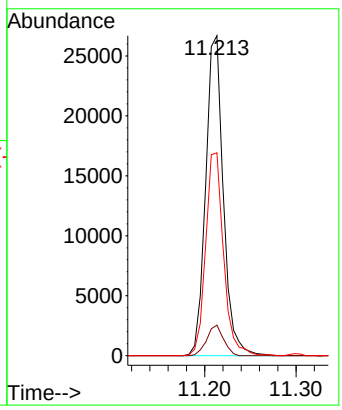


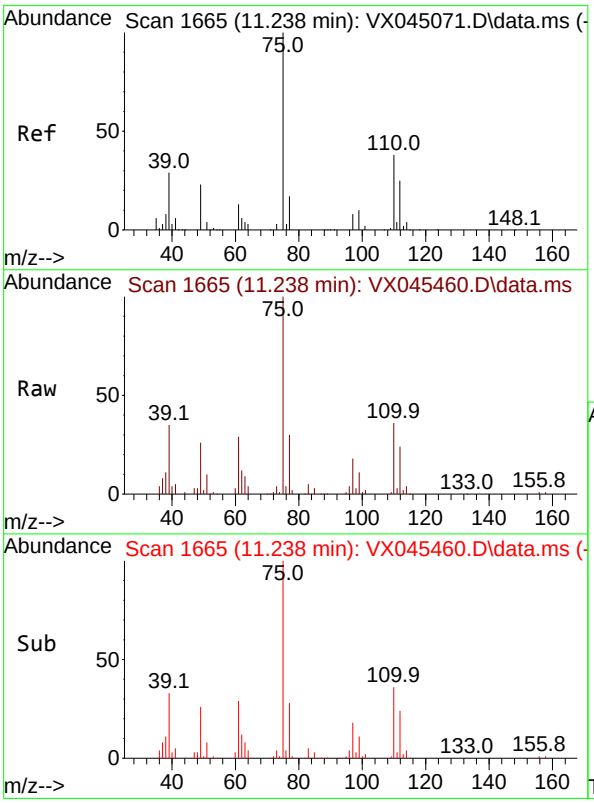
#75
1,1,2,2-Tetrachloroethane
Concen: 20.368 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 83 Resp: 35740

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.4
85	64.5	31.7	95.1

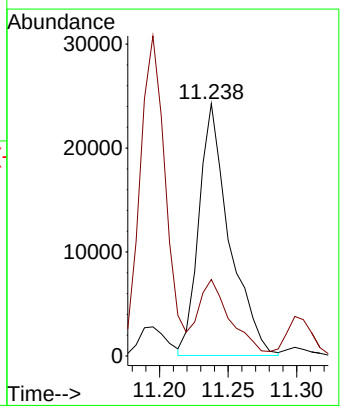


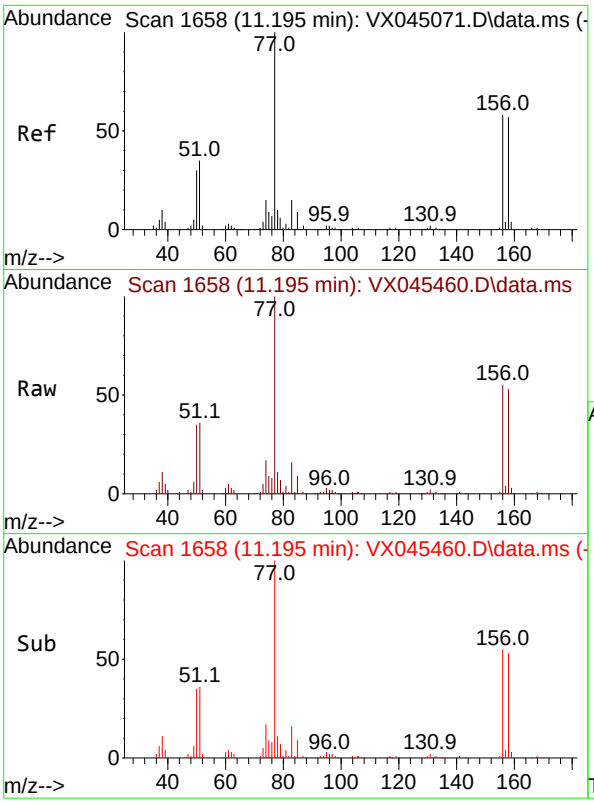


#76
1,2,3-Trichloropropane
Concen: 26.314 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 37521

Ion	Ratio	Lower	Upper
75	100		
77	32.4	20.7	62.1



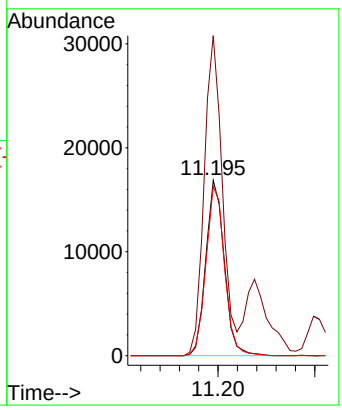


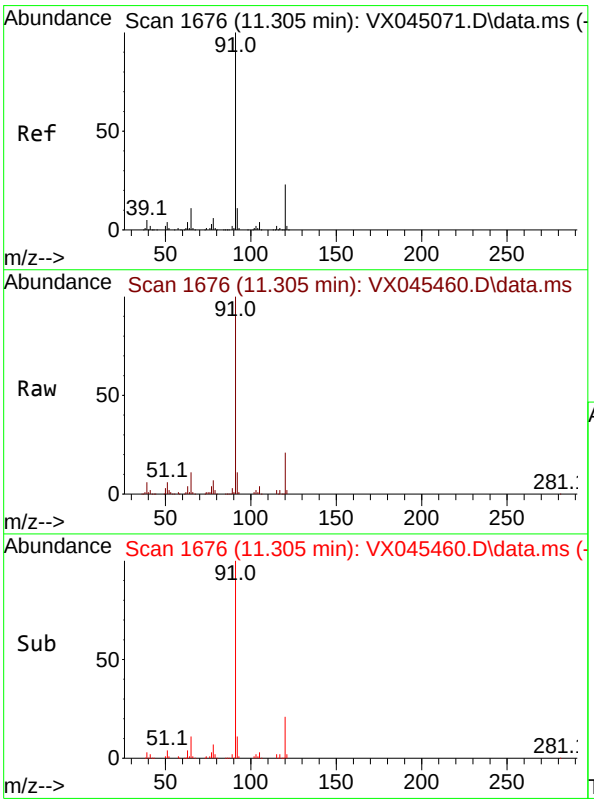
#77
Bromobenzene
Concen: 19.848 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:156 Resp: 22393

Ion	Ratio	Lower	Upper
156	100		
77	179.1	85.8	257.4
158	97.4	48.4	145.2

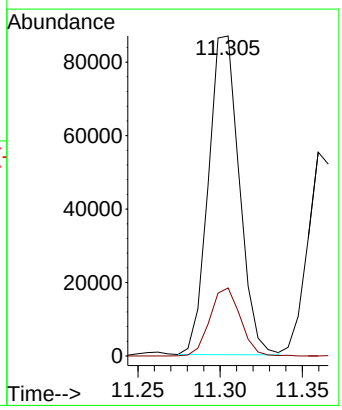


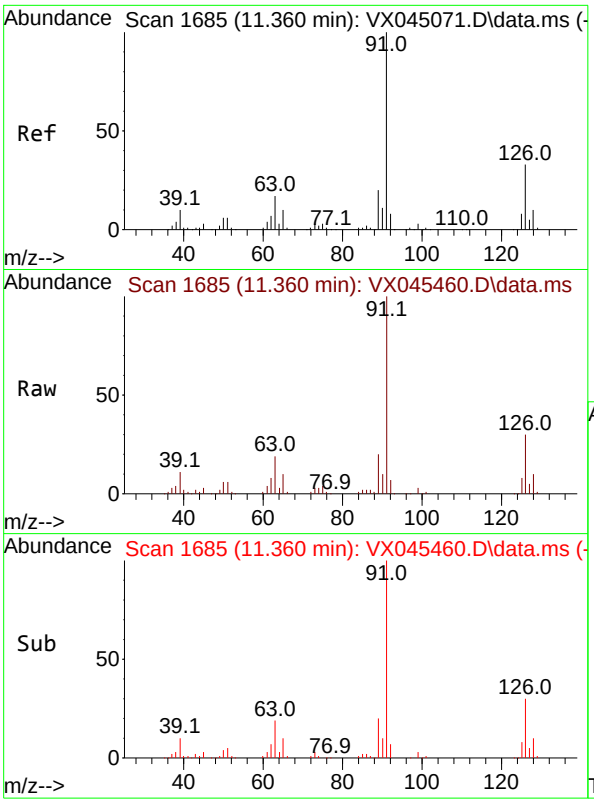


#78
n-propylbenzene
Concen: 20.970 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 91 Resp: 113273

Ion	Ratio	Lower	Upper
91	100		
120	21.0	11.2	33.6



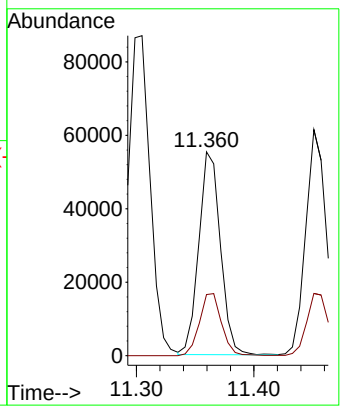


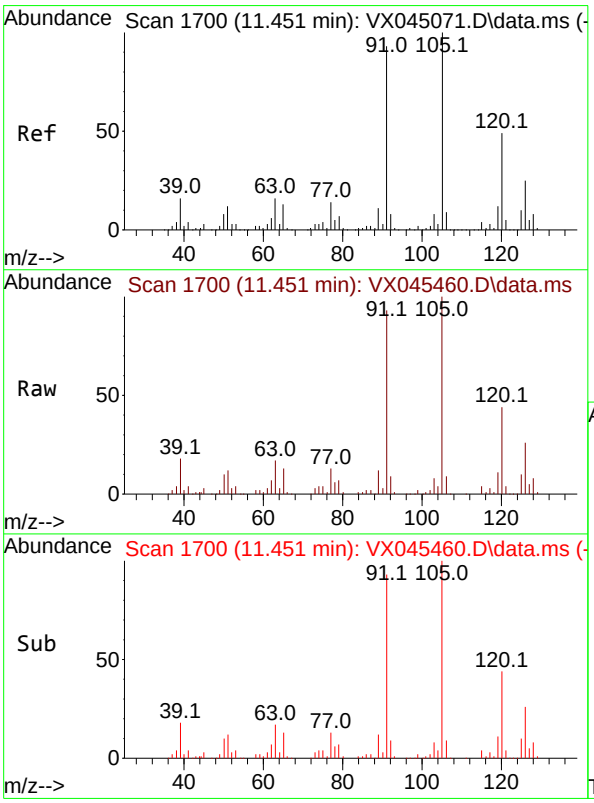
#79
2-Chlorotoluene
Concen: 20.568 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 91 Resp: 70756

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.4	49.4

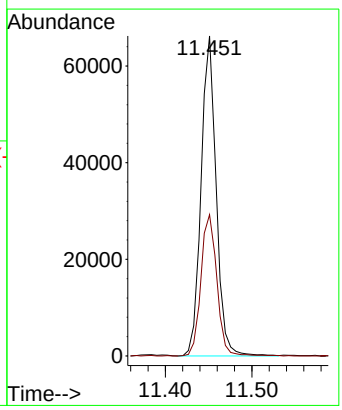


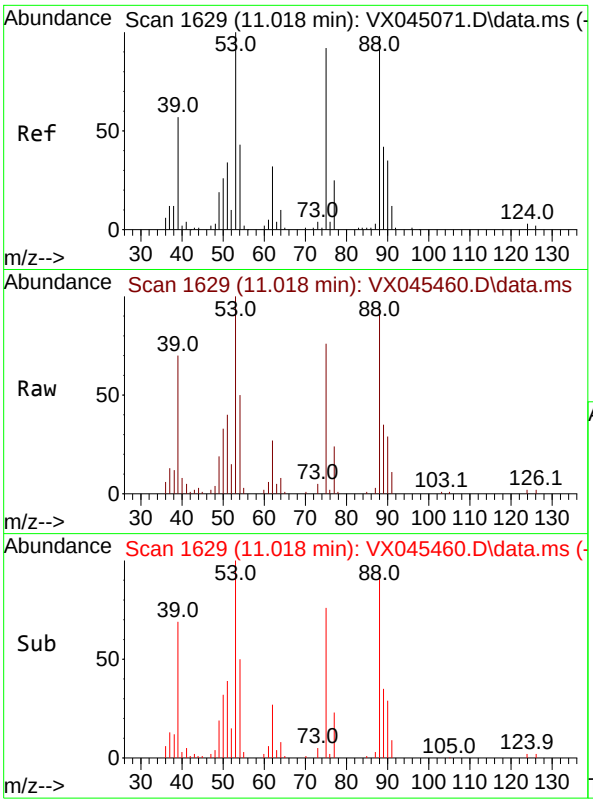


#80
1,3,5-Trimethylbenzene
Concen: 20.751 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:105 Resp: 80231

Ion	Ratio	Lower	Upper
105	100		
120	46.6	24.1	72.2



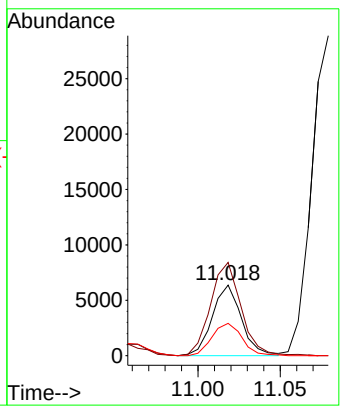


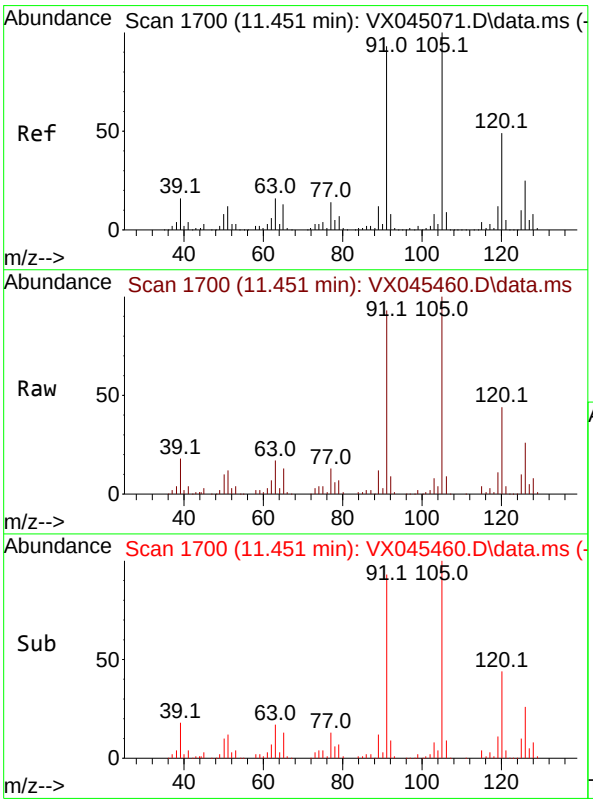
#81
trans-1,4-Dichloro-2-butene
Concen: 18.922 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 75 Resp: 7884

Ion	Ratio	Lower	Upper
75	100		
53	138.4	88.5	132.7#
89	47.1	36.2	54.4

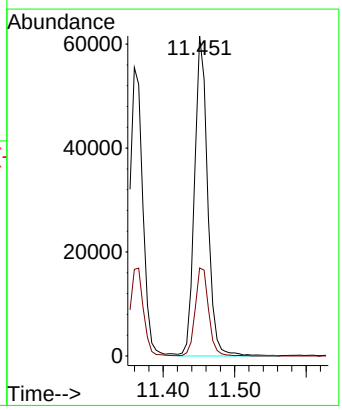


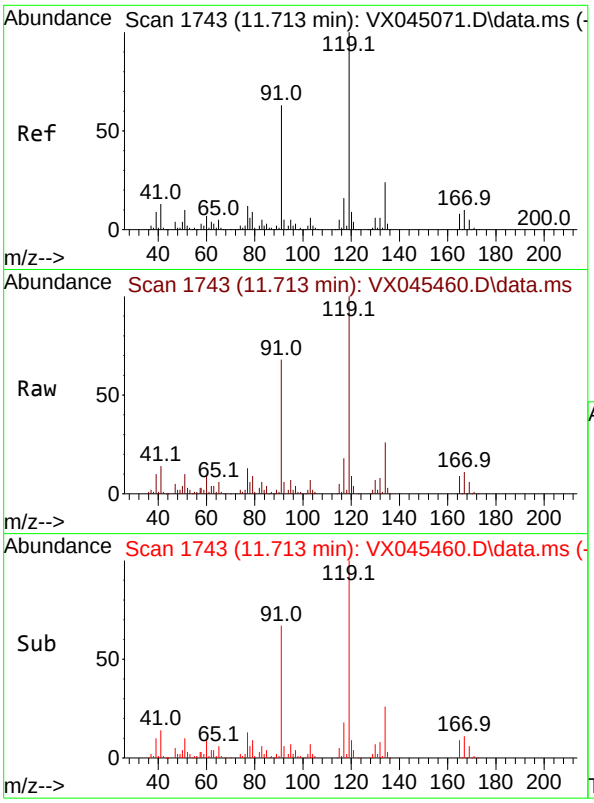


#82
4-Chlorotoluene
Concen: 20.848 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 91 Resp: 78163

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.4



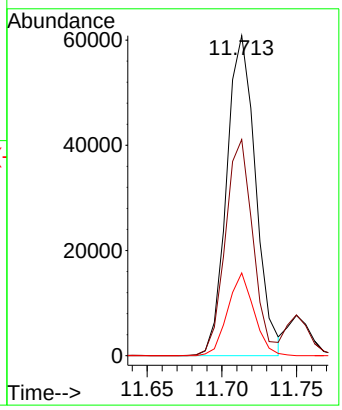


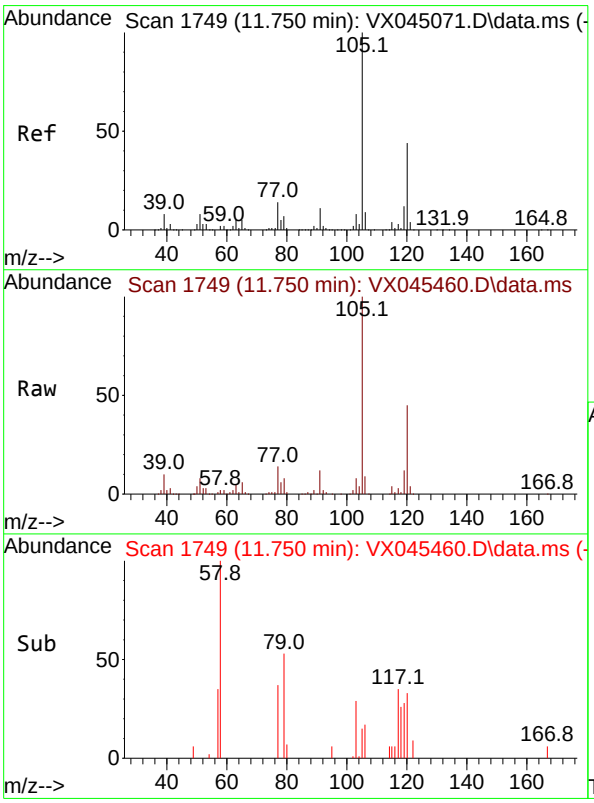
#83
tert-Butylbenzene
Concen: 20.611 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:119 Resp: 81878

Ion	Ratio	Lower	Upper
119	100		
91	65.0	30.7	92.1
134	23.5	11.7	35.0

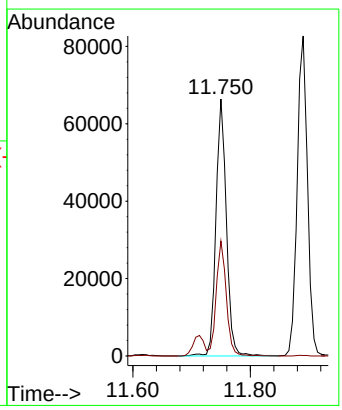


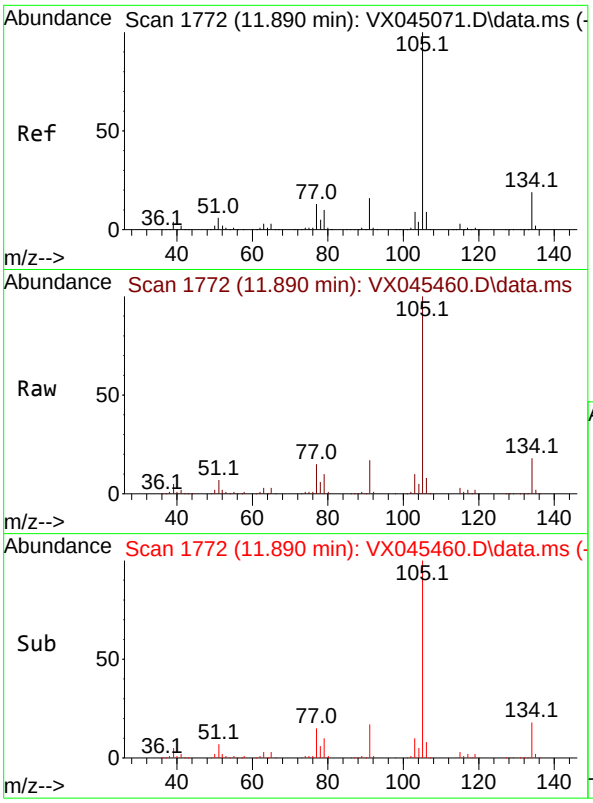


#84
1,2,4-Trimethylbenzene
Concen: 20.974 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:105 Resp: 81595

Ion	Ratio	Lower	Upper
105	100		
120	42.8	22.1	66.1



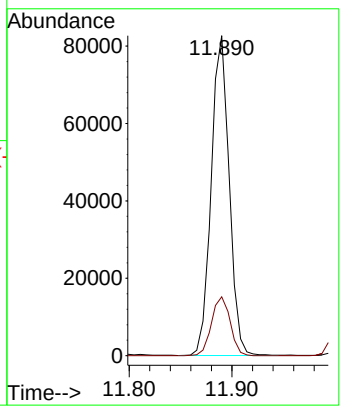


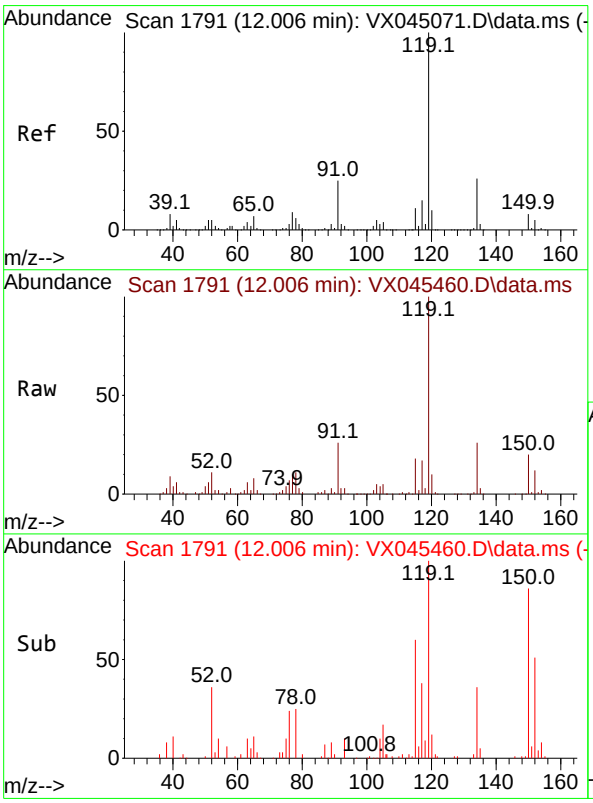
#85
sec-Butylbenzene
Concen: 21.094 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:105 Resp: 100377

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4

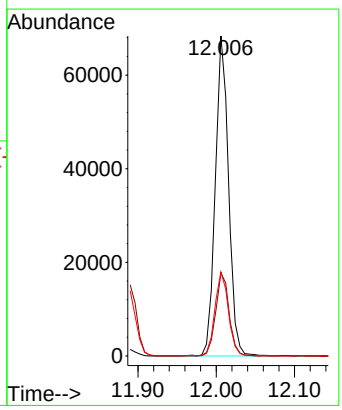


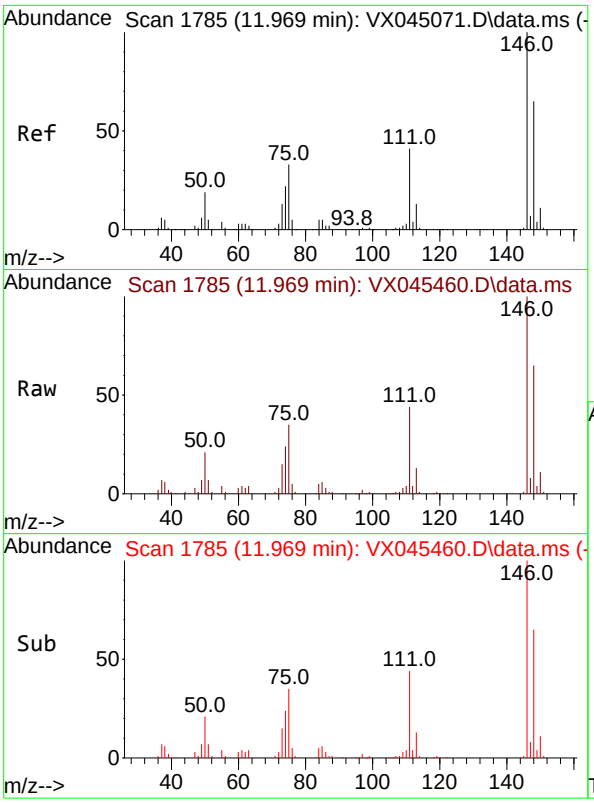


#86
p-Isopropyltoluene
Concen: 20.910 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:119 Resp: 80414

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	26.9	12.7	38.0



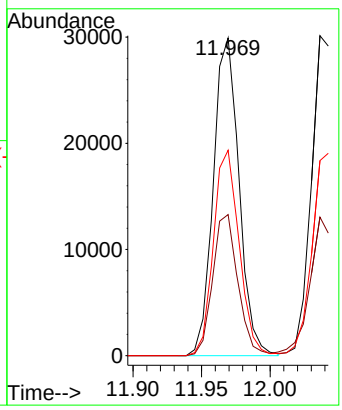


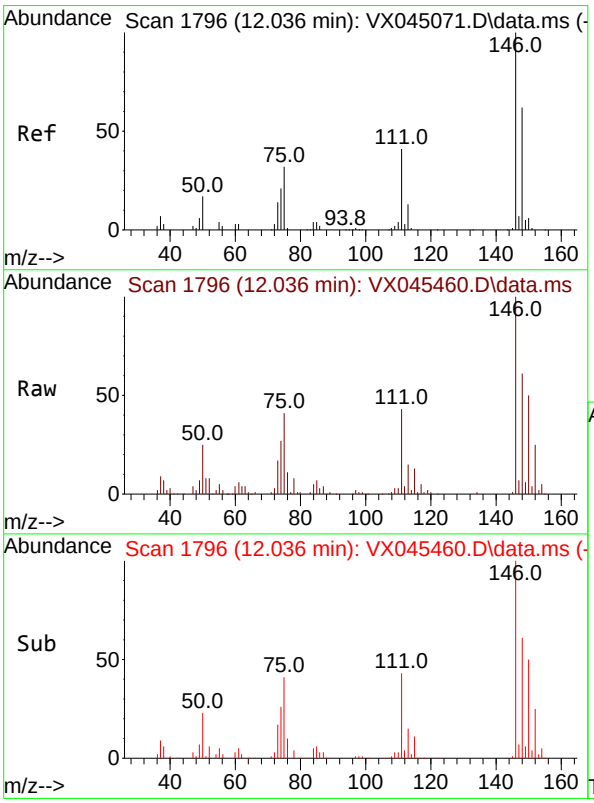
#87
1,3-Dichlorobenzene
Concen: 19.376 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:146 Resp: 38996

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.4
148	64.5	31.9	95.7

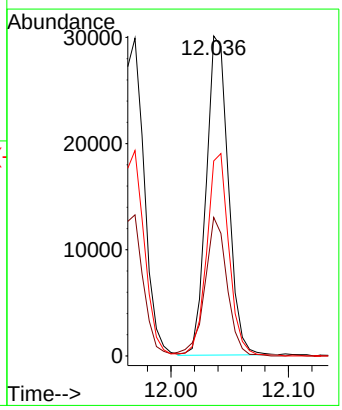


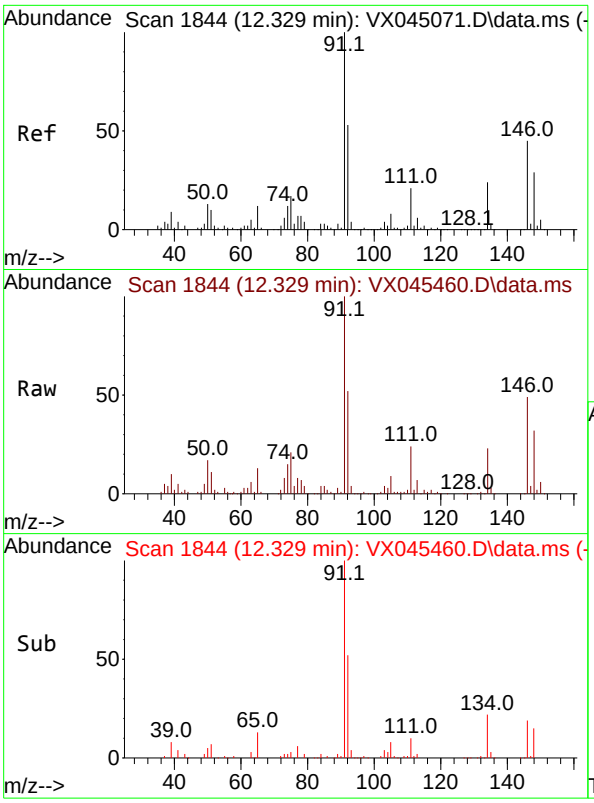


#88
1,4-Dichlorobenzene
Concen: 19.220 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:146 Resp: 39135

Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.2	60.5
148	64.3	31.9	95.9



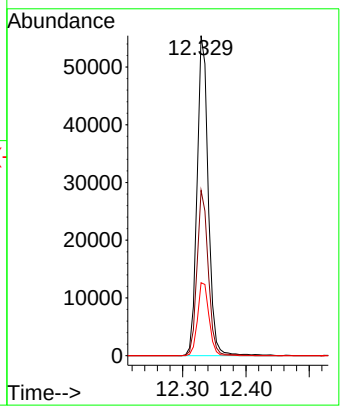


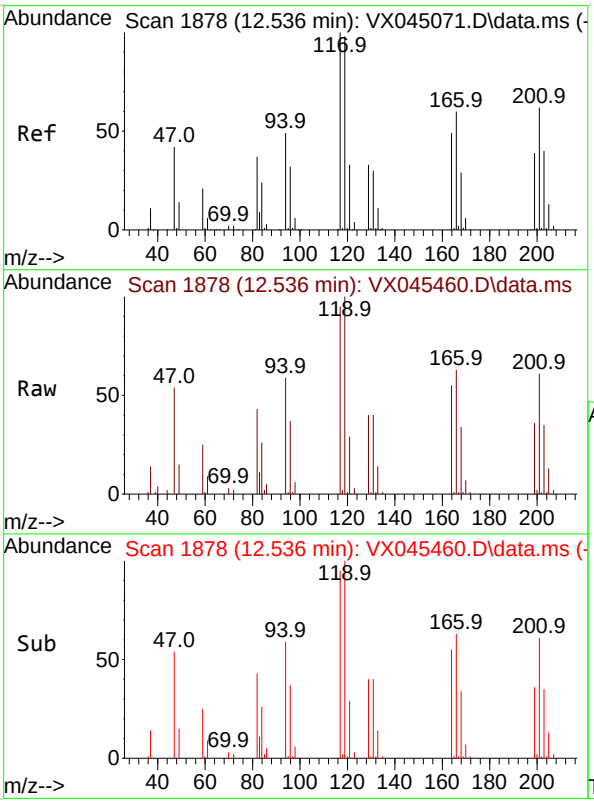
#89
n-Butylbenzene
Concen: 20.634 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion: 91 Resp: 68342

Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.7	80.0
134	23.3	12.2	36.6

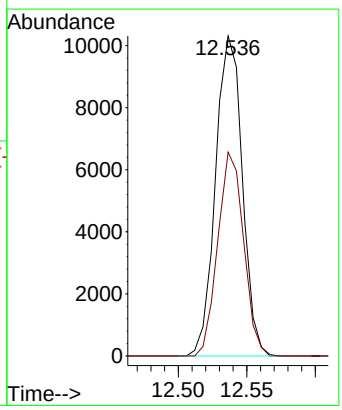


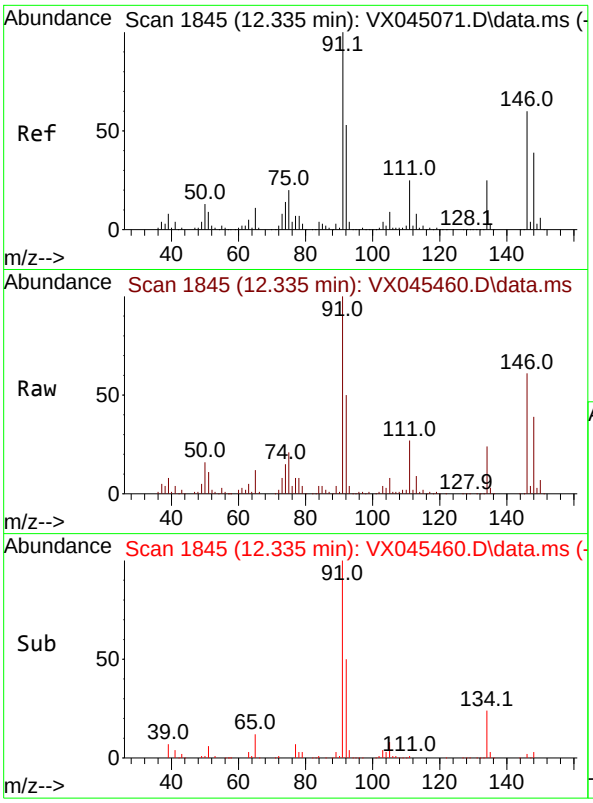


#90
Hexachloroethane
Concen: 20.092 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:117 Resp: 13976

Ion	Ratio	Lower	Upper
117	100		
201	61.6	31.9	95.9



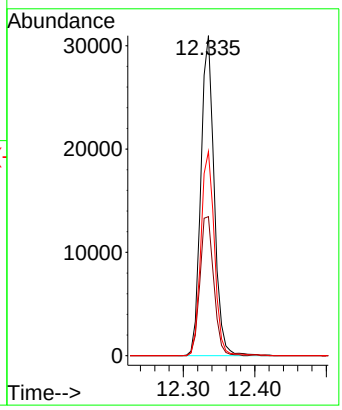


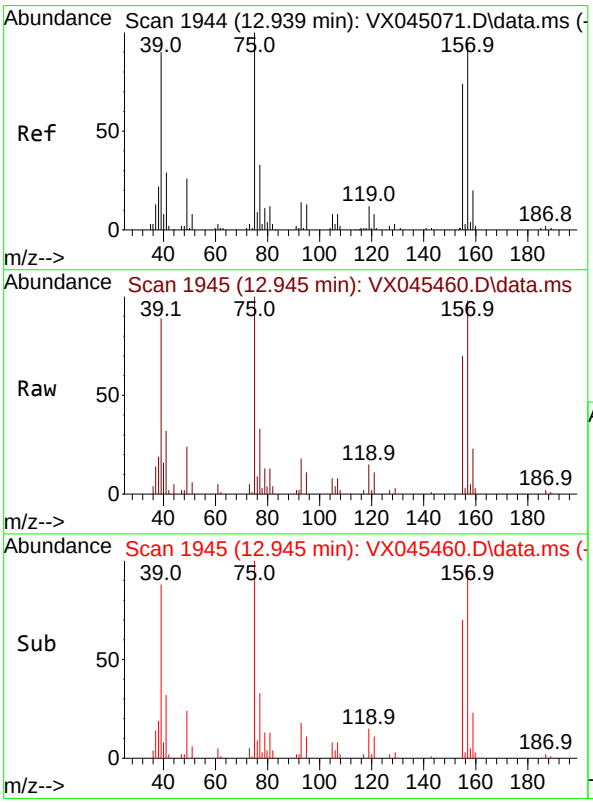
#91
1,2-Dichlorobenzene
Concen: 19.871 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:146 Resp: 40119

Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.6	65.0
148	64.8	31.9	95.9

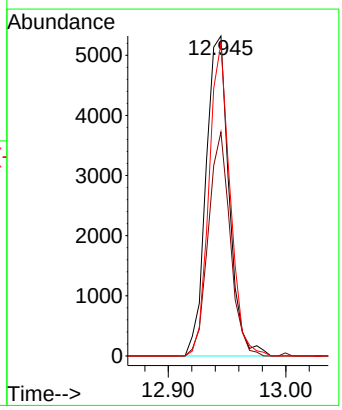


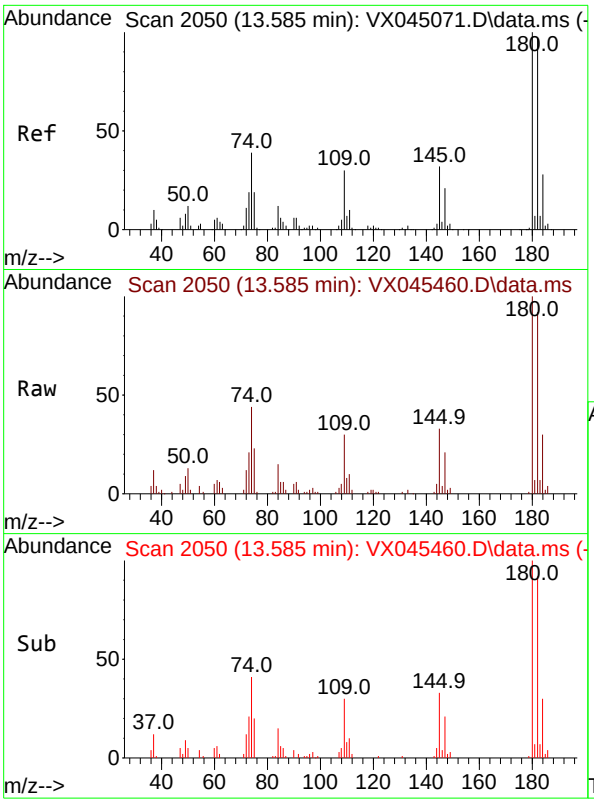


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.185 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion: 75 Resp: 7242

Ion	Ratio	Lower	Upper
75	100		
155	66.2	39.6	118.7
157	89.4	51.1	153.4



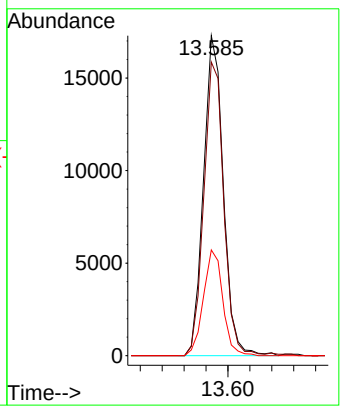


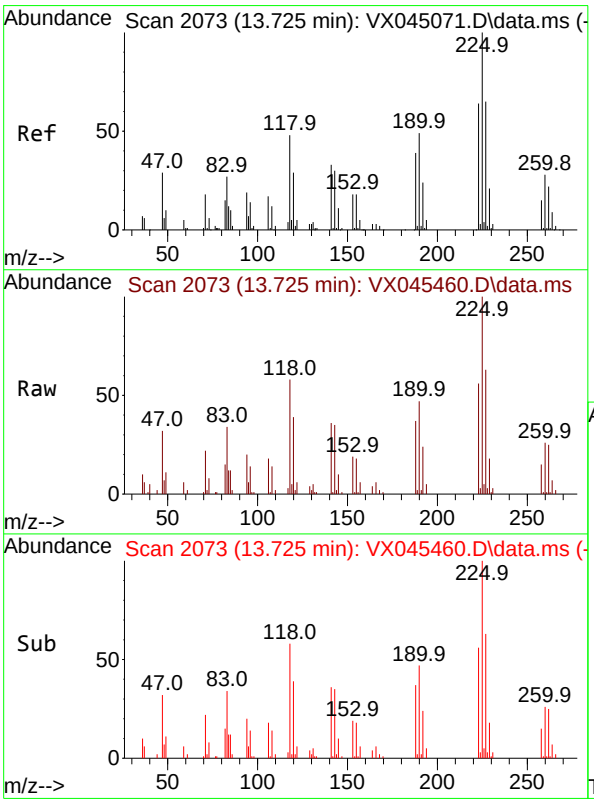
#93
1,2,4-Trichlorobenzene
Concen: 18.861 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:180 Resp: 21683

Ion	Ratio	Lower	Upper
180	100		
182	92.1	47.3	141.9
145	32.3	16.3	48.9

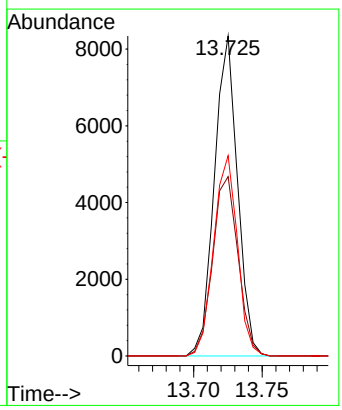


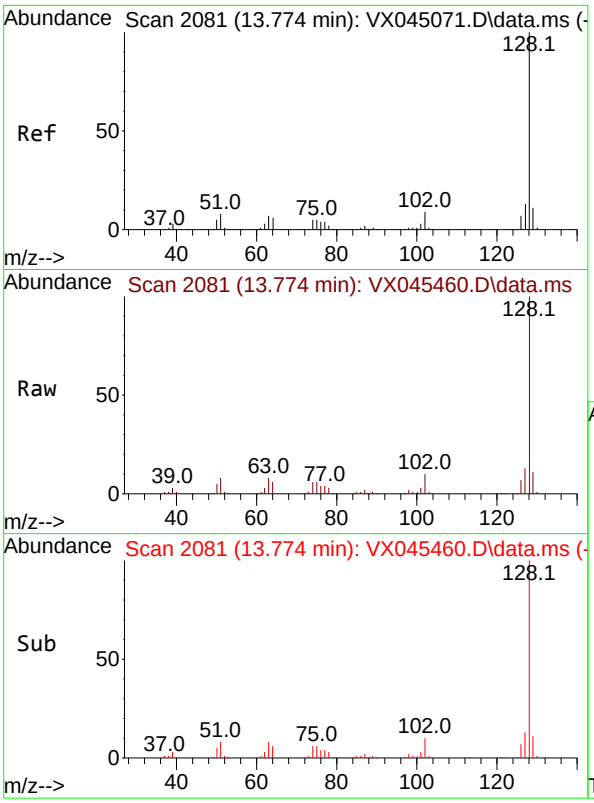


#94
Hexachlorobutadiene
Concen: 20.784 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:225 Resp: 9796

Ion	Ratio	Lower	Upper
225	100		
223	61.4	31.9	95.7
227	64.2	31.4	94.0



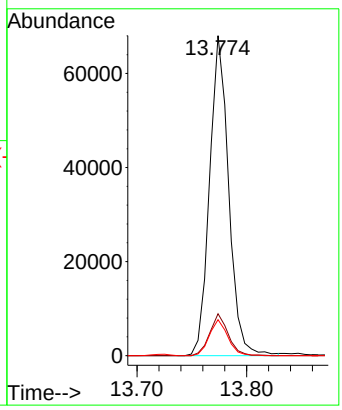


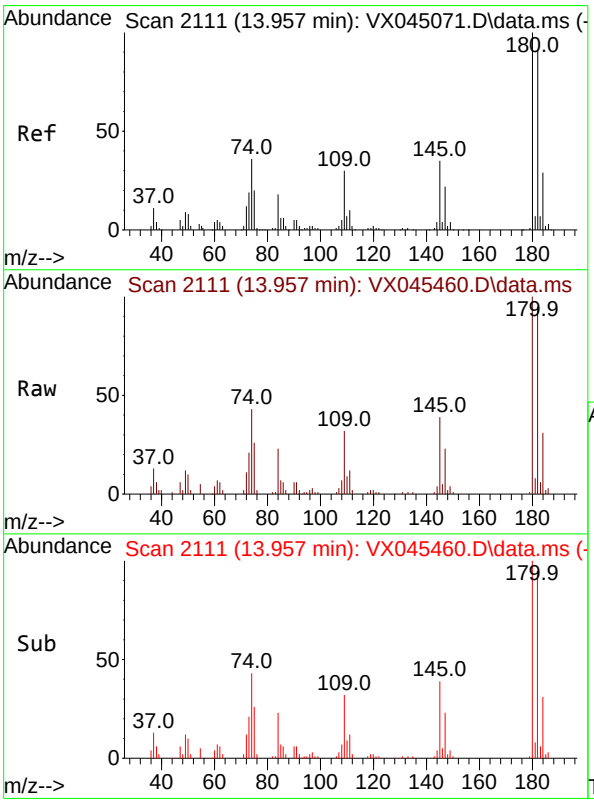
#95
Naphthalene
Concen: 18.685 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Instrument :
MSVOA_X
ClientSampleId :
VX0326WBS01

Tgt Ion:128 Resp: 82531

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.9	8.7	13.1

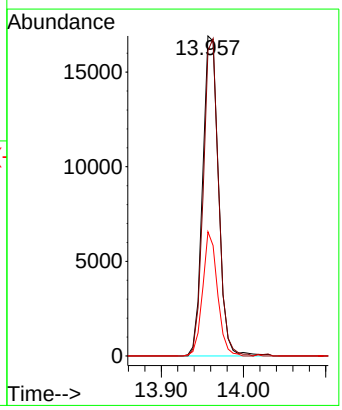




#96
1,2,3-Trichlorobenzene
Concen: 18.665 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045460.D
Acq: 26 Mar 2025 11:18

Tgt Ion:180 Resp: 22637

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.6
145	36.3	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	81846	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	149200	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	128995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	58223	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	70333	54.024	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.040%			
35) Dibromofluoromethane	5.379	113	51057	51.177	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.360%			
50) Toluene-d8	8.647	98	171361	47.378	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.760%			
62) 4-Bromofluorobenzene	11.079	95	64151	53.525	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	63039	61.188	ug/l	99
3) Chloromethane	1.307	50	64002	50.763	ug/l	97
4) Vinyl Chloride	1.374	62	60997	48.769	ug/l	97
5) Bromomethane	1.593	94	26706	54.316	ug/l	96
6) Chloroethane	1.660	64	31169	54.028	ug/l	97
7) Trichlorofluoromethane	1.867	101	89136	53.834	ug/l	97
8) Diethyl Ether	2.130	74	28789	44.453	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	56095	58.969	ug/l	99
10) Methyl Iodide	2.441	142	67036	56.391	ug/l	93
11) Tert butyl alcohol	2.983	59	52681	213.632	ug/l	97
12) 1,1-Dichloroethene	2.306	96	53128	52.826	ug/l	95
13) Acrolein	2.239	56	67779	237.772	ug/l	100
14) Allyl chloride	2.654	41	98242	54.877	ug/l	94
15) Acrylonitrile	3.062	53	170621	258.161	ug/l	99
16) Acetone	2.386	43	158081	261.709	ug/l	97
17) Carbon Disulfide	2.502	76	130184	48.600	ug/l	98
18) Methyl Acetate	2.703	43	70244	48.341	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	174983	51.860	ug/l	97
20) Methylene Chloride	2.782	84	60344	50.433	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	52538	52.878	ug/l	97
22) Diisopropyl ether	3.763	45	189973	52.178	ug/l	96
23) Vinyl Acetate	3.721	43	859885	283.012	ug/l	99
24) 1,1-Dichloroethane	3.605	63	106646	52.266	ug/l	99
25) 2-Butanone	4.556	43	245592	270.113	ug/l	97
26) 2,2-Dichloropropane	4.471	77	75229	78.603	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	62696	51.117	ug/l	90
28) Bromochloromethane	4.891	49	48323	49.686	ug/l	99
29) Tetrahydrofuran	5.007	42	156166	255.764	ug/l	100
30) Chloroform	5.086	83	109294	53.908	ug/l	99
31) Cyclohexane	5.464	56	95021	53.647	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	91708	56.006	ug/l	98
36) 1,1-Dichloropropene	5.684	75	72584	53.051	ug/l	99
37) Ethyl Acetate	4.715	43	92982	52.741	ug/l	98
38) Carbon Tetrachloride	5.672	117	76313	54.939	ug/l	99
39) Methylcyclohexane	7.373	83	94279	57.508	ug/l	96
40) Benzene	6.031	78	221759	51.328	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	51231	53.741	ug/l		98
42) 1,2-Dichloroethane	6.080	62	89573	57.574	ug/l		97
43) Isopropyl Acetate	6.342	43	140624	53.941	ug/l		99
44) Trichloroethene	7.117	130	50320	49.602	ug/l		94
45) 1,2-Dichloropropane	7.427	63	56209	50.601	ug/l		98
46) Dibromomethane	7.580	93	42664	54.339	ug/l		96
47) Bromodichloromethane	7.818	83	82942	53.857	ug/l		99
48) Methyl methacrylate	7.690	41	73888	56.494	ug/l		93
49) 1,4-Dioxane	7.659	88	27605	1000.591	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	485045	277.099	ug/l		99
52) Toluene	8.714	92	134202	52.942	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	74011	57.485	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	83643	55.713	ug/l	#	89
55) 1,1,2-Trichloroethane	9.147	97	54177	51.916	ug/l		95
56) Ethyl methacrylate	9.116	69	86460	54.505	ug/l		91
57) 1,3-Dichloropropane	9.305	76	93794	51.936	ug/l		99
59) 2-Hexanone	9.427	43	354561	279.563	ug/l		98
60) Dibromochloromethane	9.519	129	59348	54.391	ug/l		100
61) 1,2-Dibromoethane	9.610	107	55467	53.243	ug/l		99
64) Tetrachloroethene	9.269	164	43935	53.180	ug/l		96
65) Chlorobenzene	10.079	112	144357	52.887	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	48973	53.877	ug/l		97
67) Ethyl Benzene	10.189	91	261313	54.944	ug/l		99
68) m/p-Xylenes	10.299	106	191289	109.870	ug/l		95
69) o-Xylene	10.640	106	94995	54.099	ug/l		97
70) Styrene	10.652	104	159320	56.074	ug/l		98
71) Bromoform	10.799	173	37451	54.637	ug/l	#	97
73) Isopropylbenzene	10.957	105	250437	55.108	ug/l		98
74) N-amyl acetate	10.841	43	119273	55.933	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	84652	50.761	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	90126	66.507	ug/l		85
77) Bromobenzene	11.195	156	55160	51.444	ug/l		93
78) n-propylbenzene	11.305	91	293737	57.219	ug/l		98
79) 2-Chlorotoluene	11.360	91	175537	53.691	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	206424	56.177	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	21420	54.092	ug/l		87
82) 4-Chlorotoluene	11.451	91	200691	56.323	ug/l		99
83) tert-Butylbenzene	11.713	119	202565	53.652	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	206804	55.934	ug/l		99
85) sec-Butylbenzene	11.890	105	254610	56.298	ug/l		99
86) p-Isopropyltoluene	12.006	119	208162	56.955	ug/l		97
87) 1,3-Dichlorobenzene	11.969	146	99559	52.049	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	99011	51.163	ug/l		97
89) n-Butylbenzene	12.329	91	186985	59.401	ug/l		99
90) Hexachloroethane	12.536	117	36501	55.214	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	100191	52.215	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19120	58.851	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	56512	51.723	ug/l		99
94) Hexachlorobutadiene	13.725	225	24074	53.744	ug/l		99
95) Naphthalene	13.774	128	211704	50.432	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	59088	51.264	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

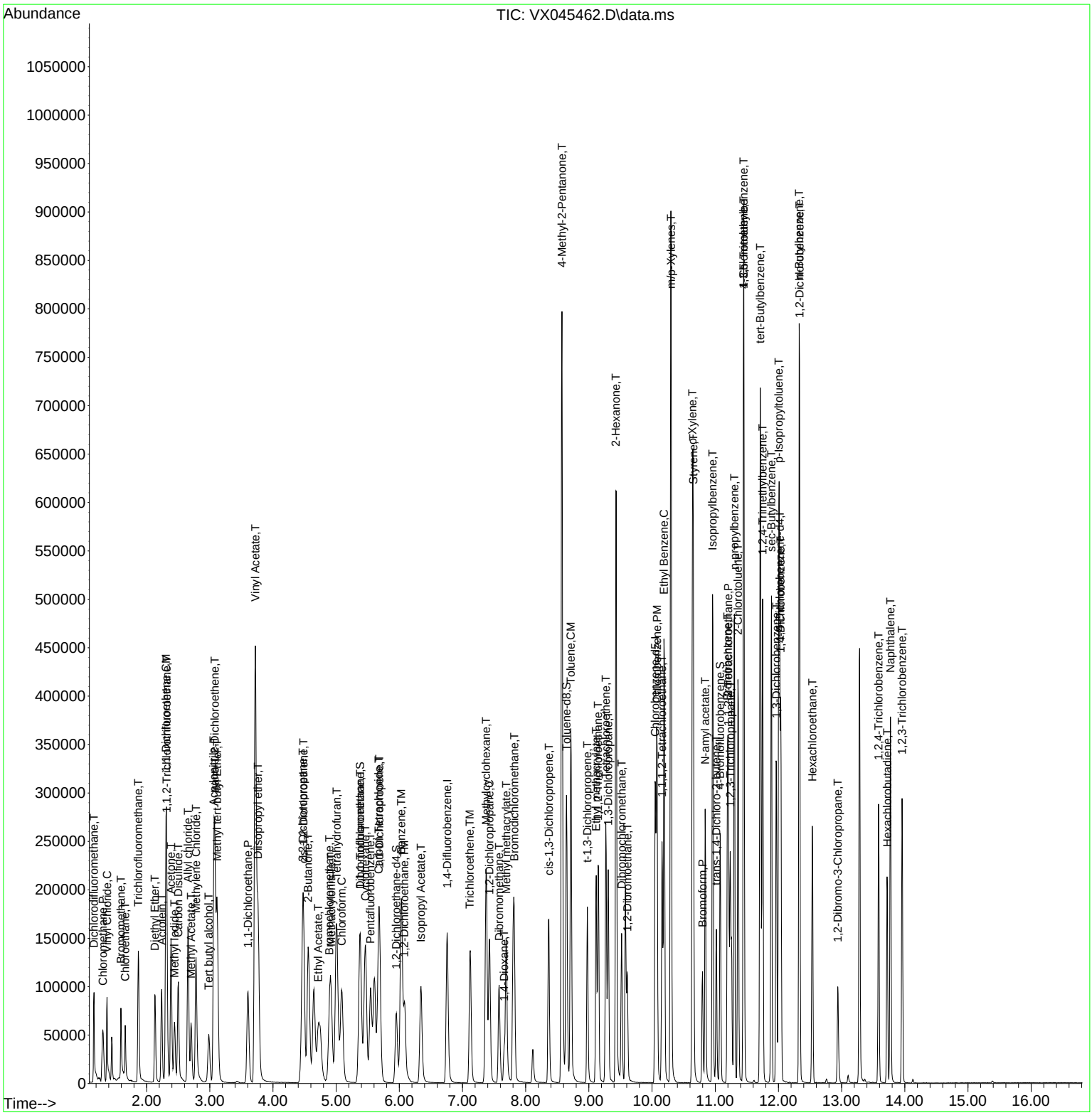
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

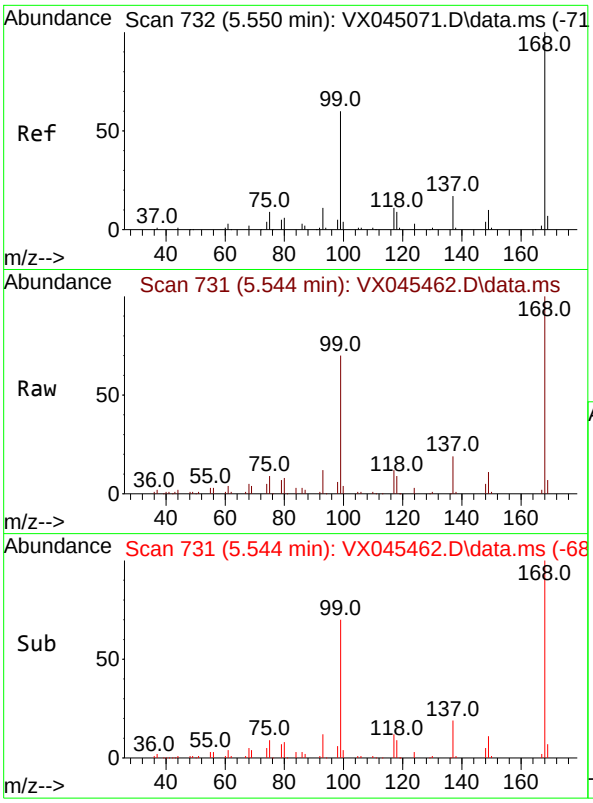
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045462.D
Acq On : 26 Mar 2025 12:09
Operator : JC/MD
Sample : Q1629-15MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Quant Time: Mar 27 01:34:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



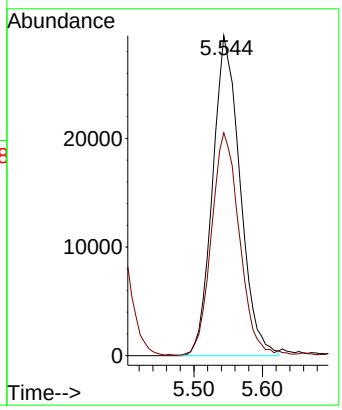


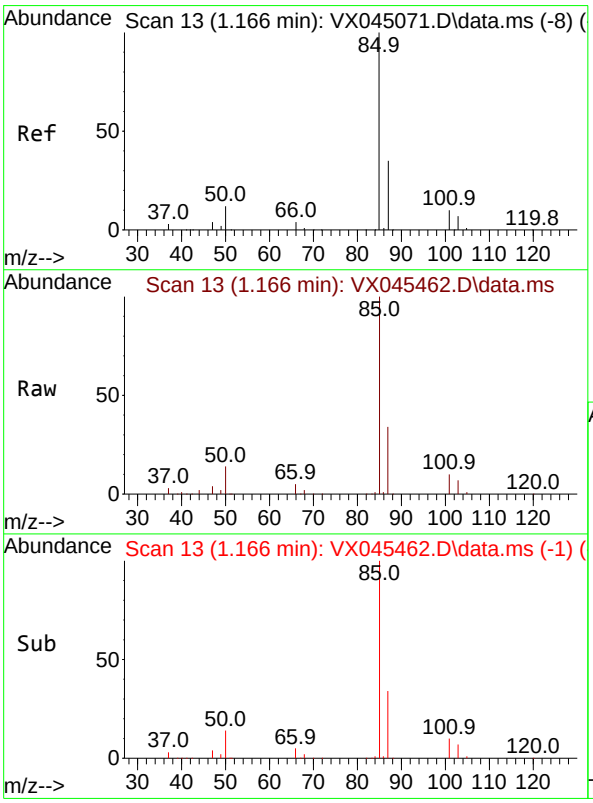
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:168 Resp: 81846

Ion	Ratio	Lower	Upper
168	100		
99	69.4	48.2	72.4

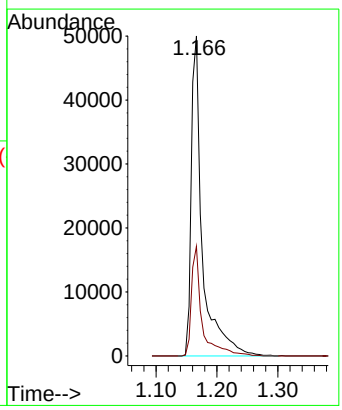


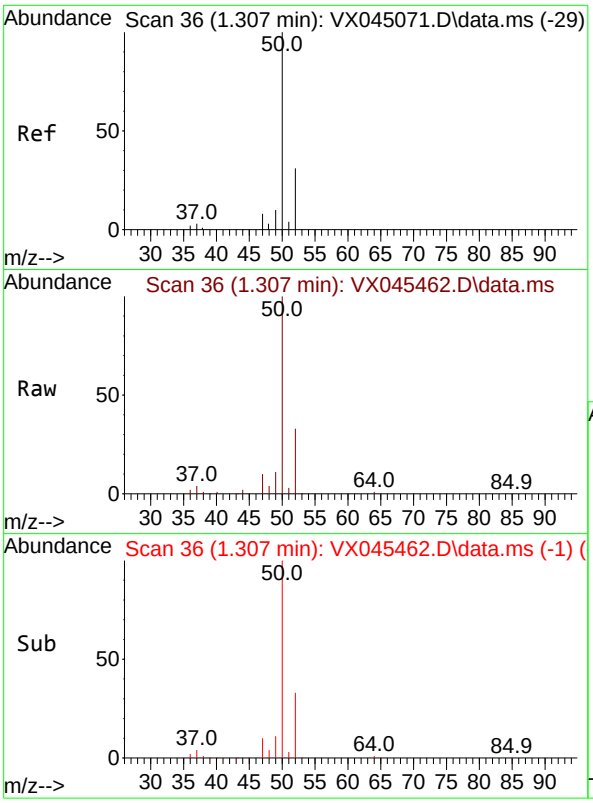


#2
Dichlorodifluoromethane
Concen: 61.188 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 85 Resp: 63039

Ion	Ratio	Lower	Upper
85	100		
87	34.2	17.4	52.3



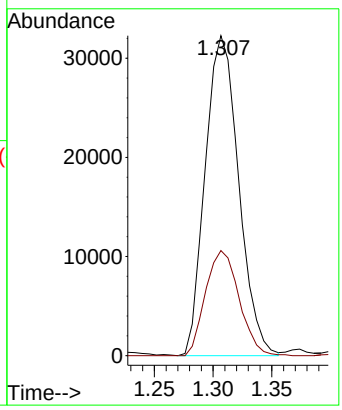


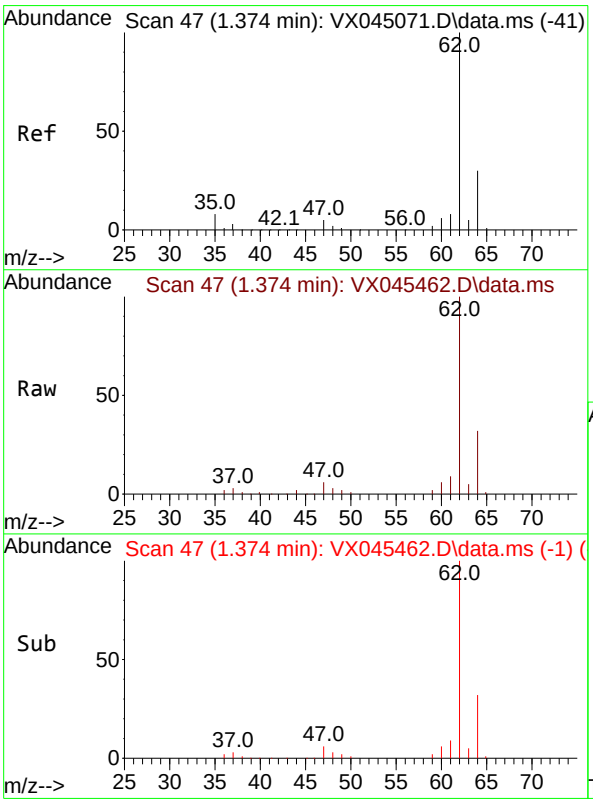
#3
Chloromethane
Concen: 50.763 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 50 Resp: 64002

Ion	Ratio	Lower	Upper
50	100		
52	32.8	25.0	37.4

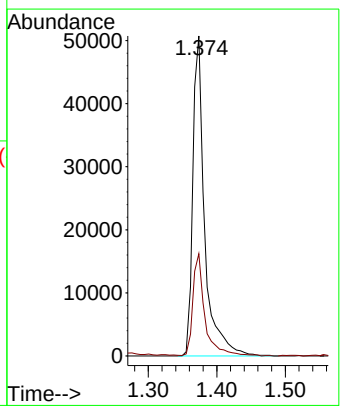


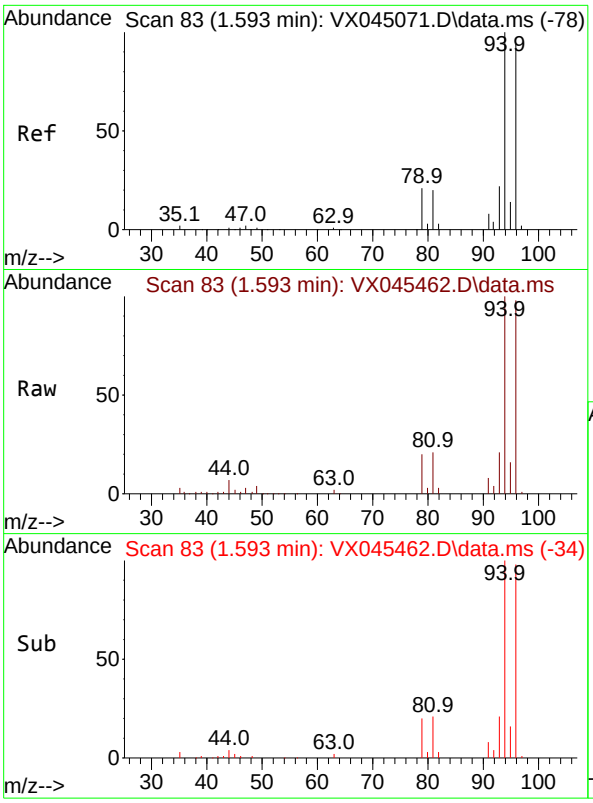


#4
Vinyl Chloride
Concen: 48.769 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 62 Resp: 60997

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.3	36.5



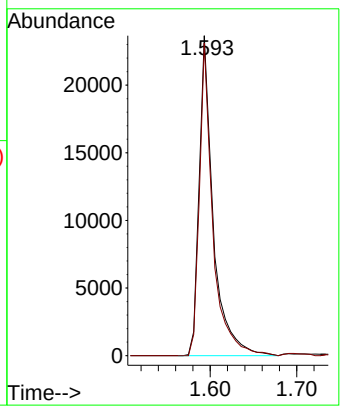


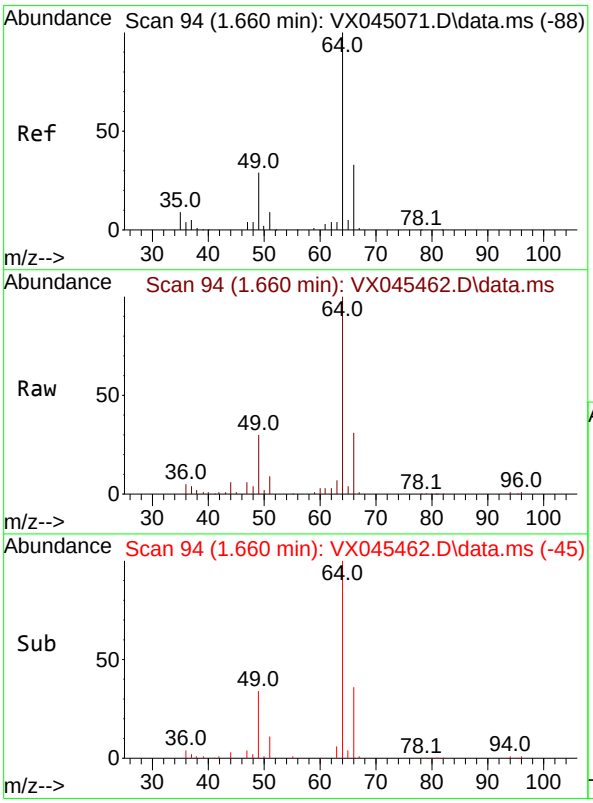
#5
Bromomethane
Concen: 54.316 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 94 Resp: 26706

Ion	Ratio	Lower	Upper
94	100		
96	97.7	75.0	112.4

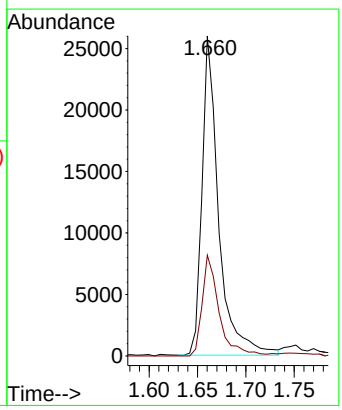


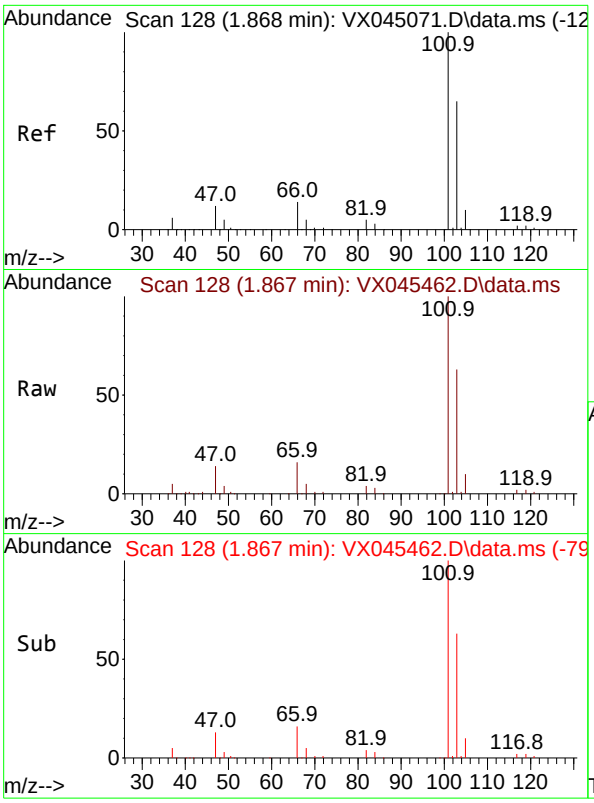


#6
Chloroethane
Concen: 54.028 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 64 Resp: 31169

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.7	40.1



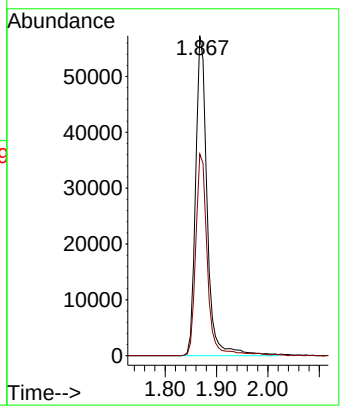


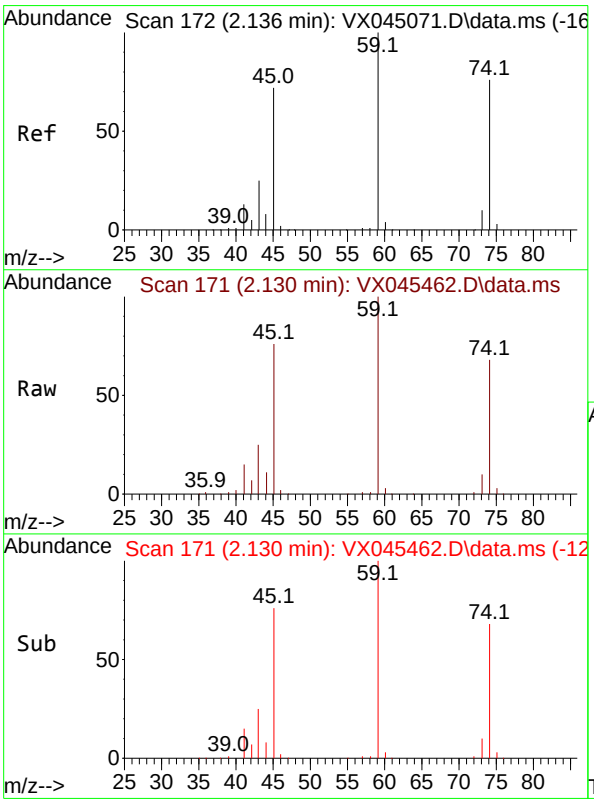
#7
Trichlorofluoromethane
Concen: 53.834 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:101 Resp: 89136

Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.1	78.1

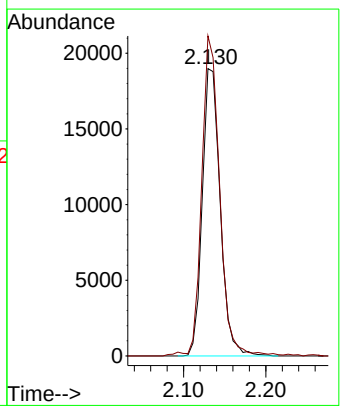


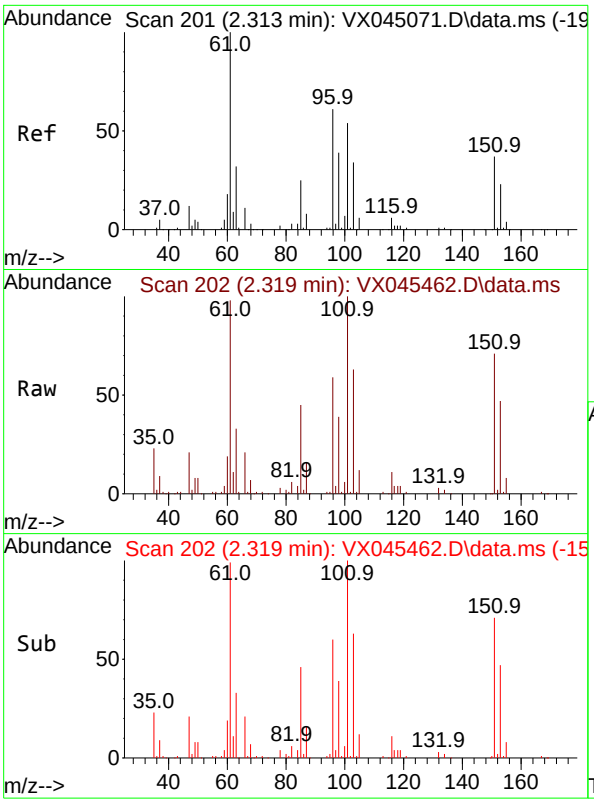


#8
Diethyl Ether
Concen: 44.453 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 74 Resp: 28789

Ion	Ratio	Lower	Upper
74	100		
45	111.2	51.5	154.5



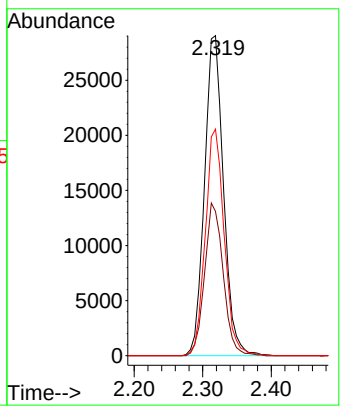


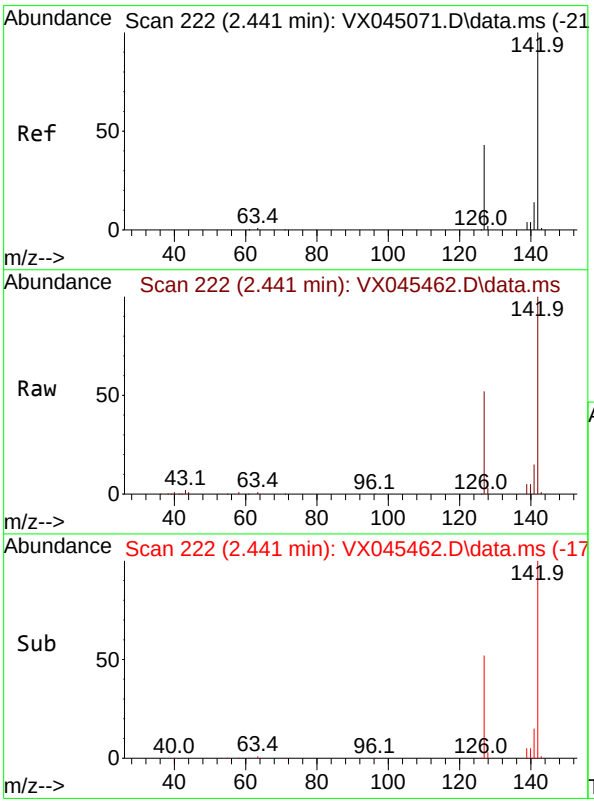
#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.969 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:101 Resp: 56095

Ion	Ratio	Lower	Upper
101	100		
85	46.7	36.2	54.4
151	70.3	56.4	84.6

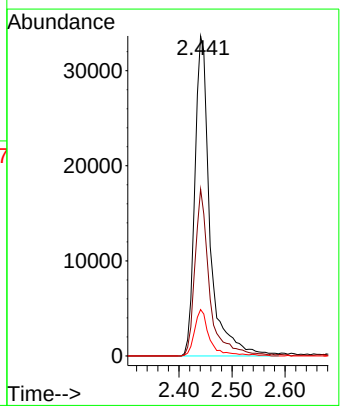


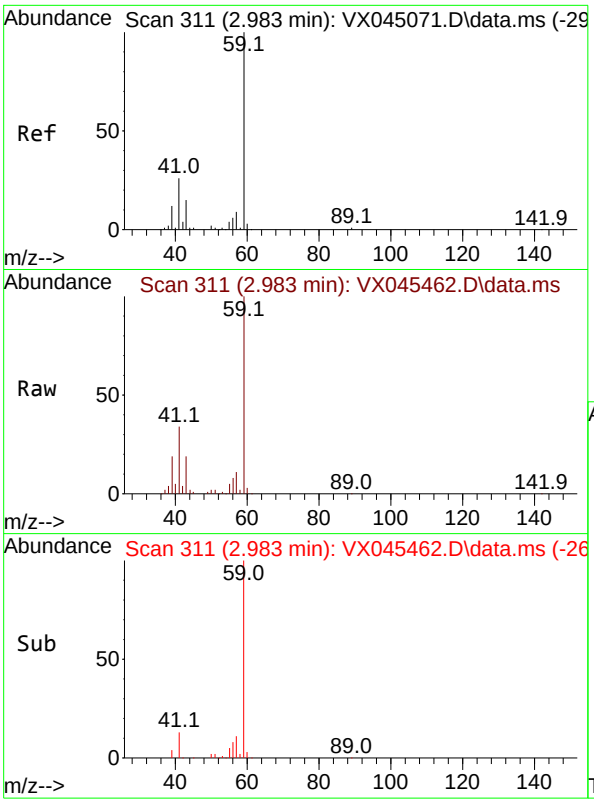


#10
Methyl Iodide
Concen: 56.391 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:142 Resp: 67036

Ion	Ratio	Lower	Upper
142	100		
127	49.9	35.4	53.2
141	14.1	11.6	17.4



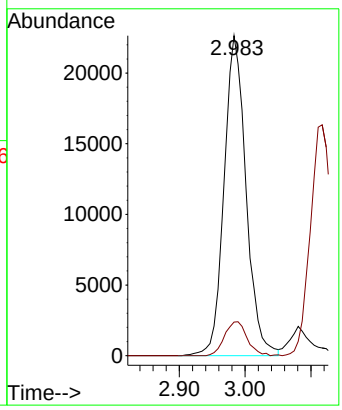


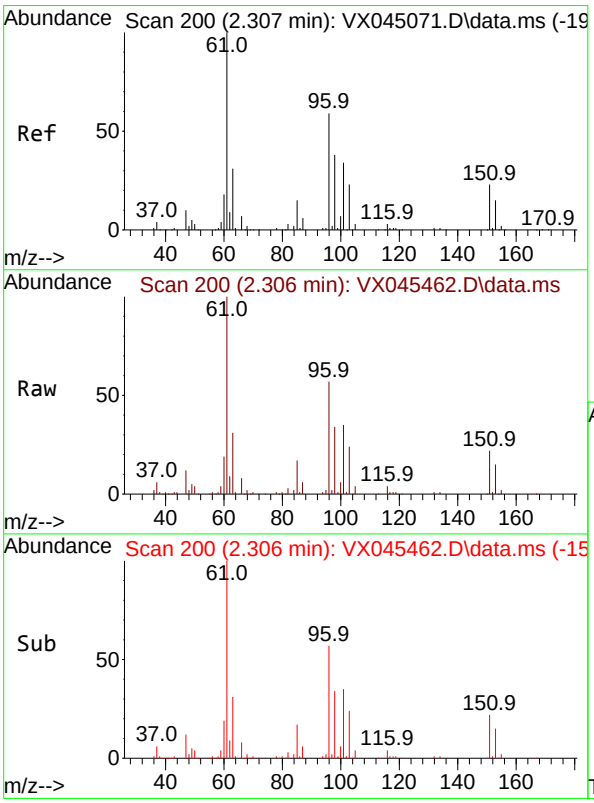
#11
Tert butyl alcohol
Concen: 213.632 ug/l
RT: 2.983 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 59 Resp: 52681

Ion	Ratio	Lower	Upper
59	100		
57	10.9	7.8	11.8

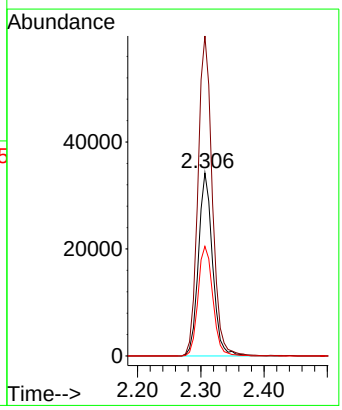


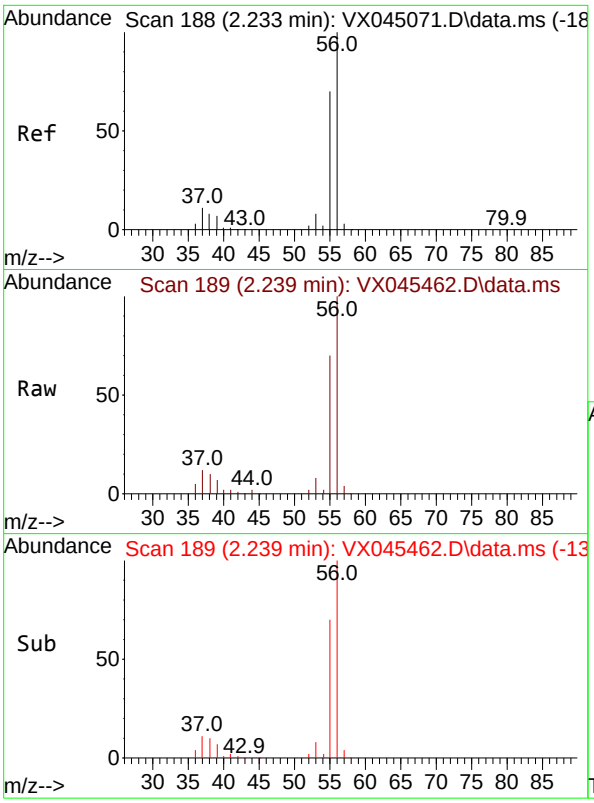


#12
1,1-Dichloroethene
Concen: 52.826 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 96 Resp: 53128

Ion	Ratio	Lower	Upper
96	100		
61	174.8	134.6	202.0
98	59.9	51.0	76.6



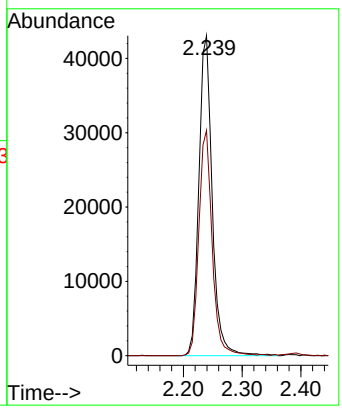


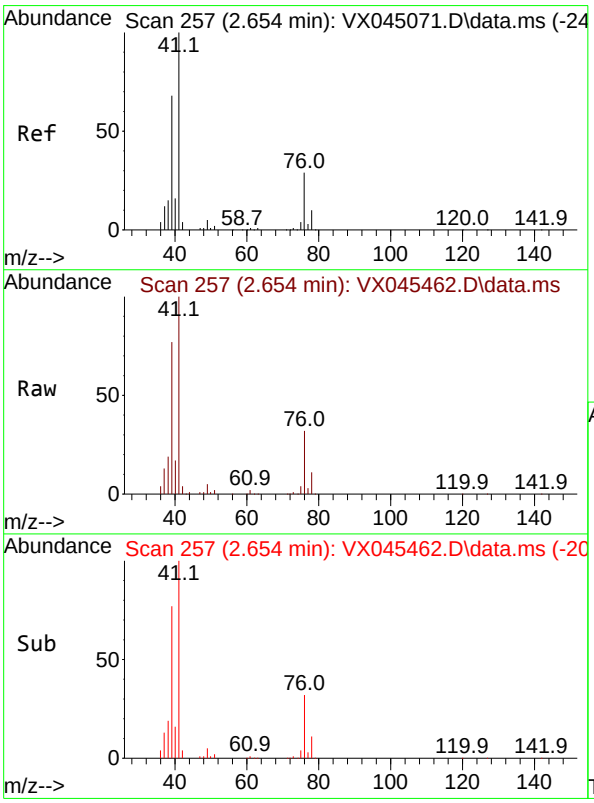
#13
Acrolein
Concen: 237.772 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 56 Resp: 67779

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4

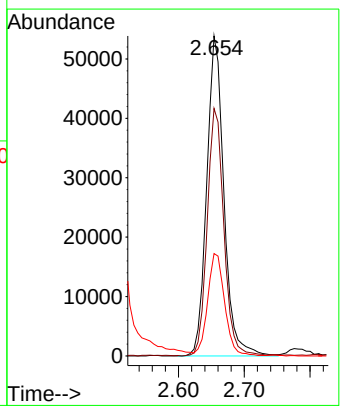


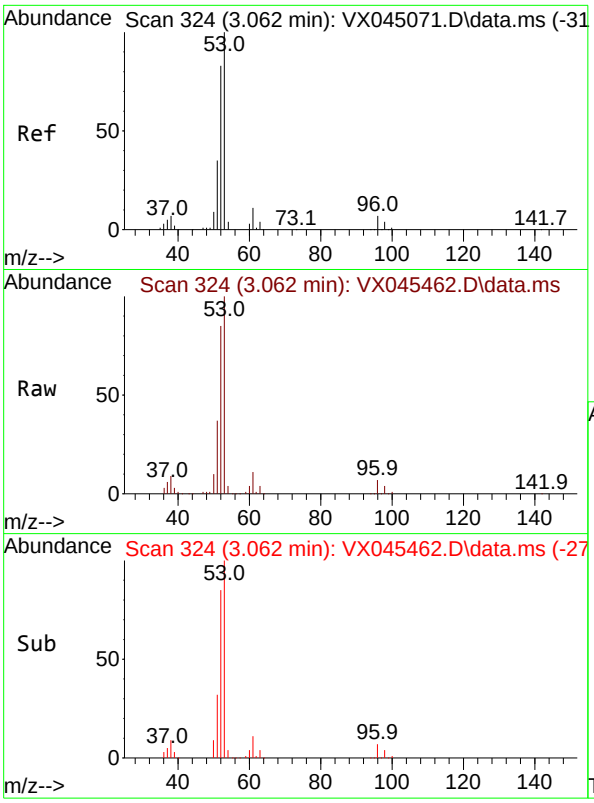


#14
Allyl chloride
Concen: 54.877 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 41 Resp: 98242

Ion	Ratio	Lower	Upper
41	100		
39	74.8	53.8	80.8
76	31.3	25.2	37.8



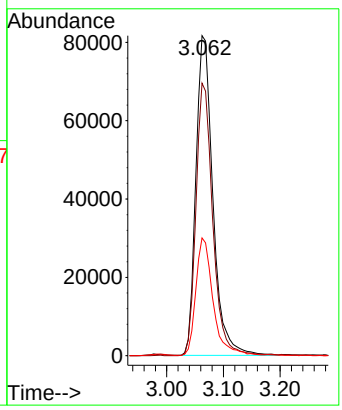


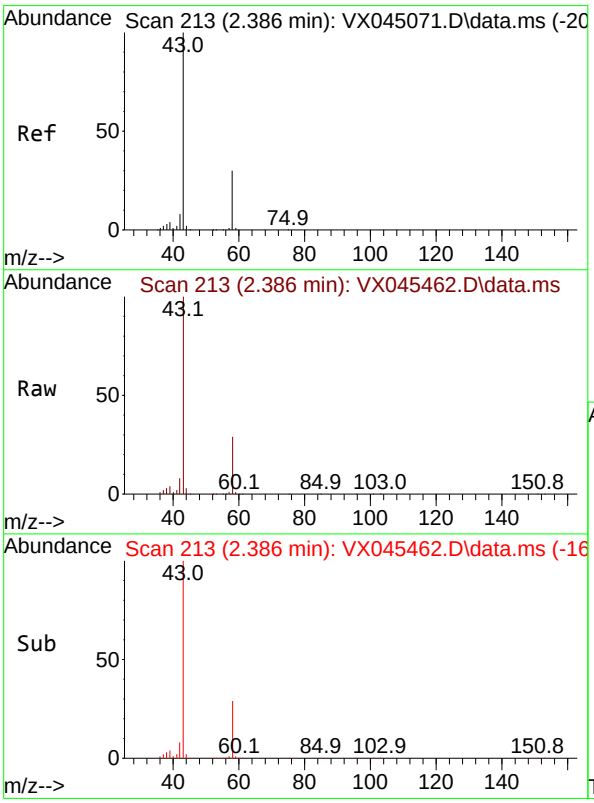
#15
Acrylonitrile
Concen: 258.161 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 53 Resp: 170621

Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.2	99.2
51	36.8	29.0	43.4

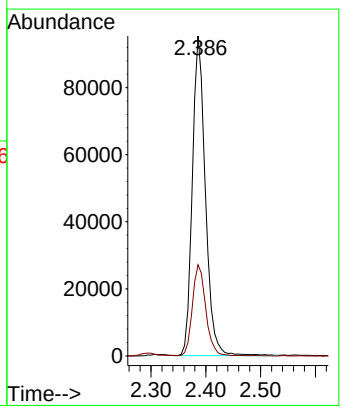


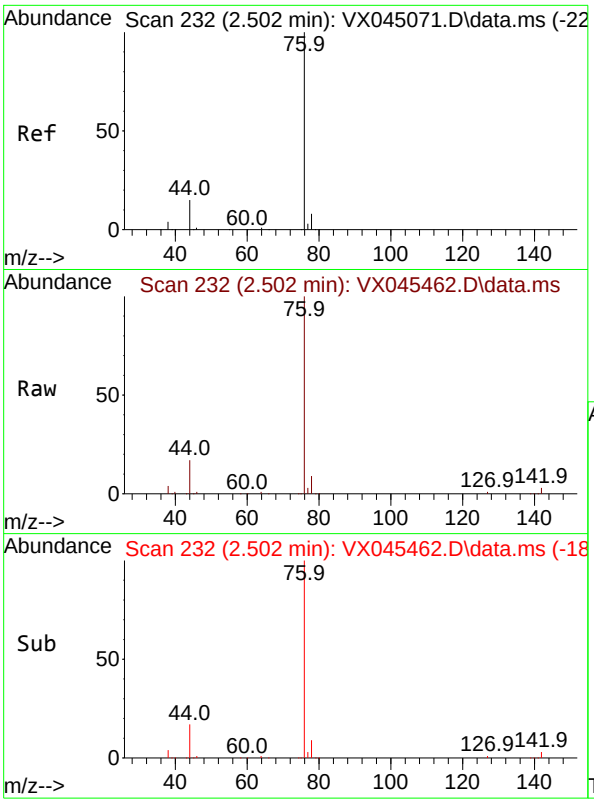


#16
Acetone
Concen: 261.709 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 158081

Ion	Ratio	Lower	Upper
43	100		
58	28.5	24.2	36.4



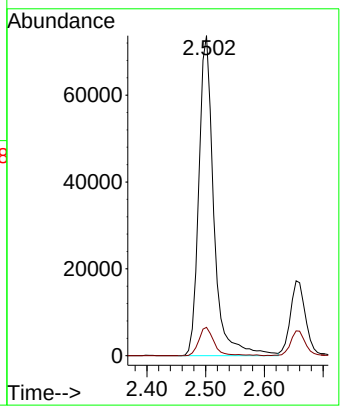


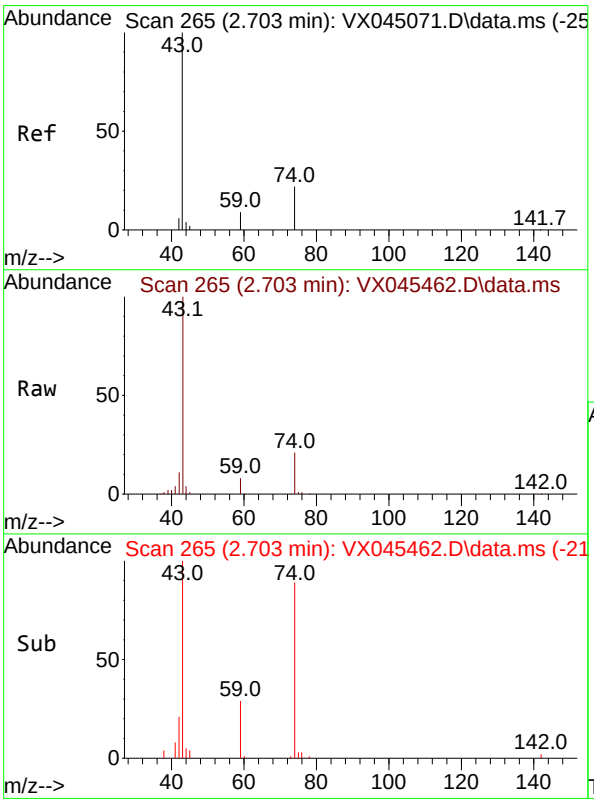
#17
Carbon Disulfide
Concen: 48.600 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 76 Resp: 130184

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.6	9.8

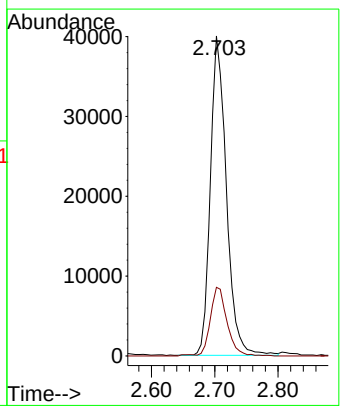


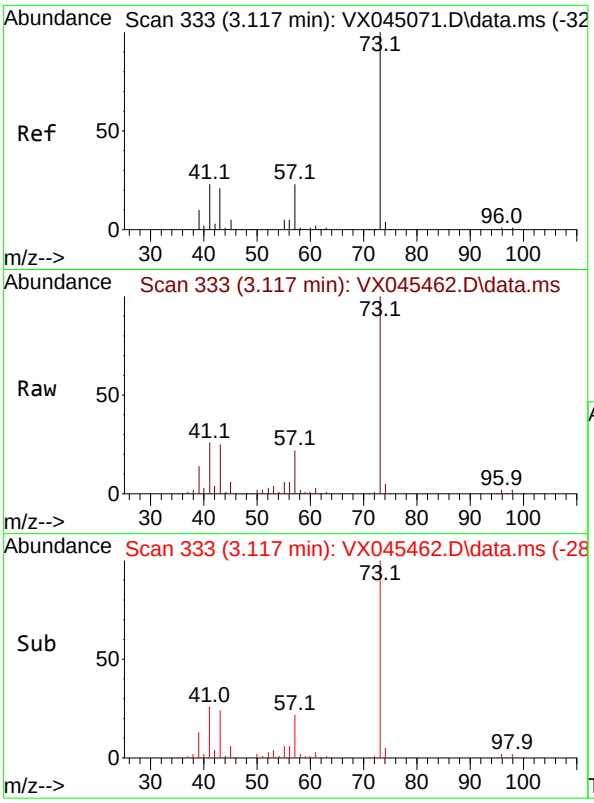


#18
Methyl Acetate
Concen: 48.341 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 70244

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



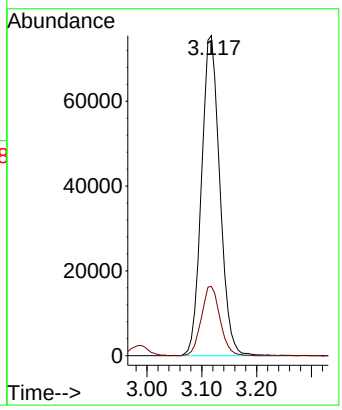


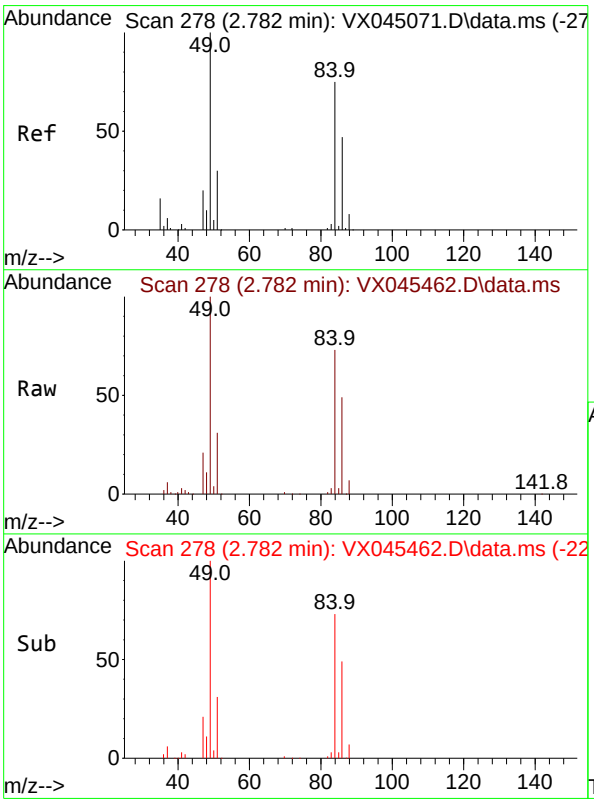
#19
Methyl tert-butyl Ether
Concen: 51.860 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 73 Resp: 174983

Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.5	27.7

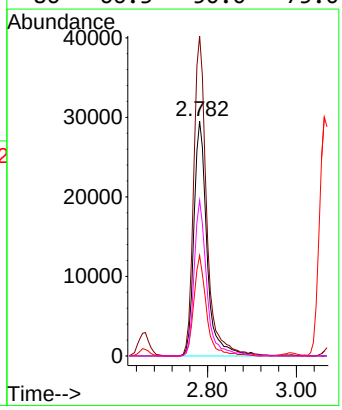


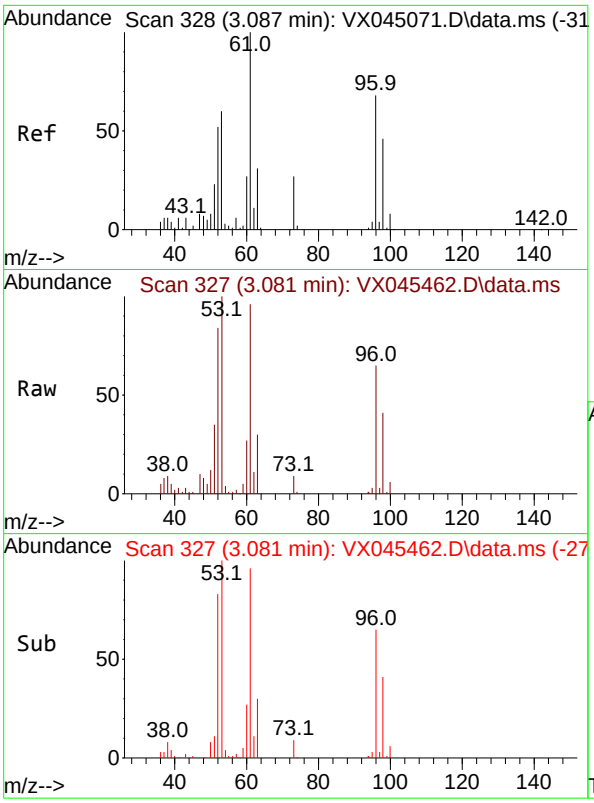


#20
Methylene Chloride
Concen: 50.433 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 84 Resp: 60344

Ion	Ratio	Lower	Upper
84	100		
49	136.3	106.5	159.7
51	42.8	32.1	48.1
86	66.3	50.0	75.0



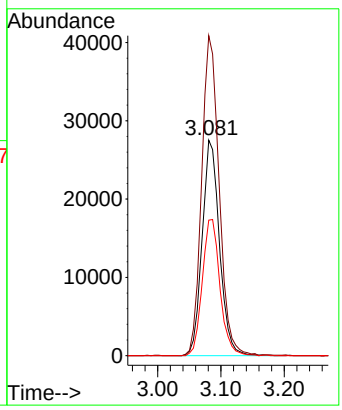


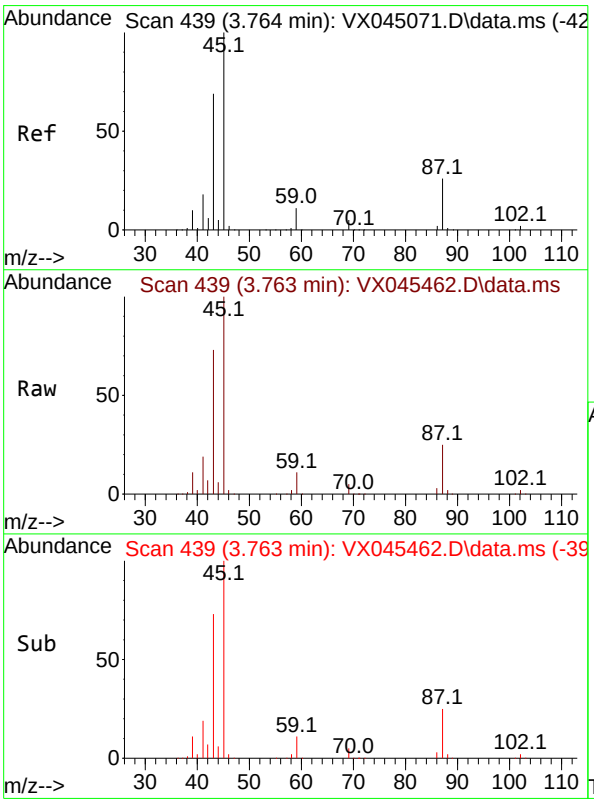
#21
trans-1,2-Dichloroethene
Concen: 52.878 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 96 Resp: 52538

Ion	Ratio	Lower	Upper
96	100		
61	148.4	117.0	175.4
98	62.9	53.4	80.2

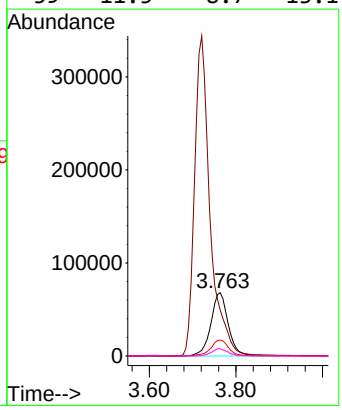


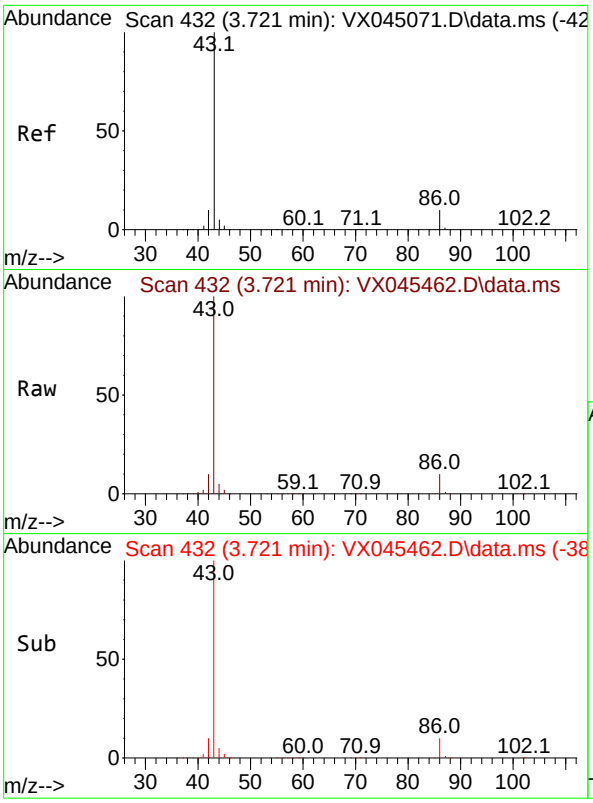


#22
Diisopropyl ether
Concen: 52.178 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 45 Resp: 189973

Ion	Ratio	Lower	Upper
45	100		
43	72.8	54.9	82.3
87	25.1	21.0	31.4
59	11.5	8.7	13.1



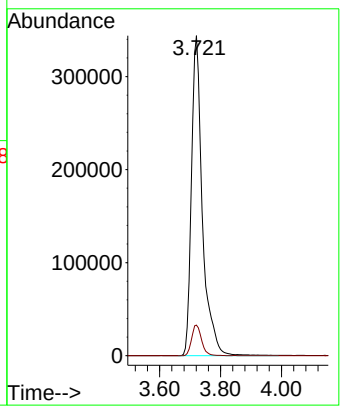


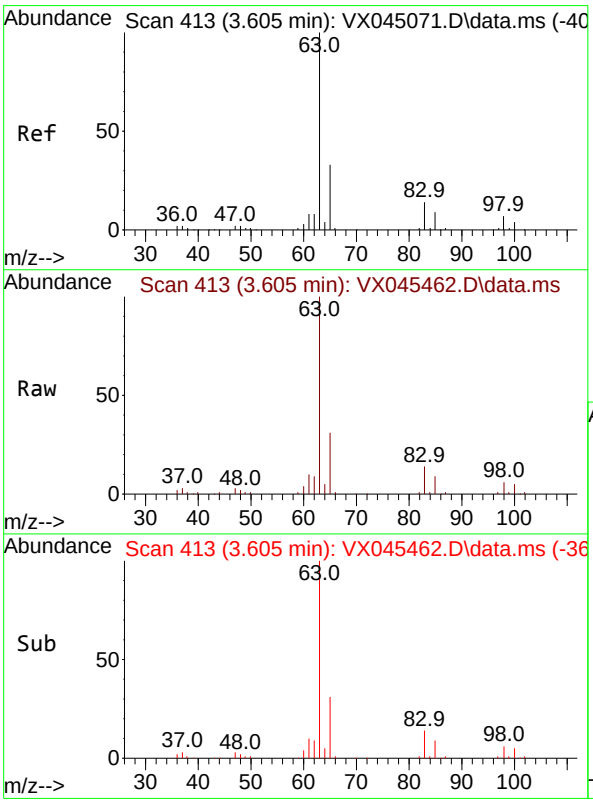
#23
Vinyl Acetate
Concen: 283.012 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 43 Resp: 859885

Ion	Ratio	Lower	Upper
43	100		
86	9.6	8.1	12.1

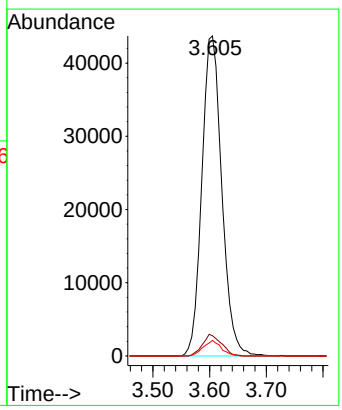


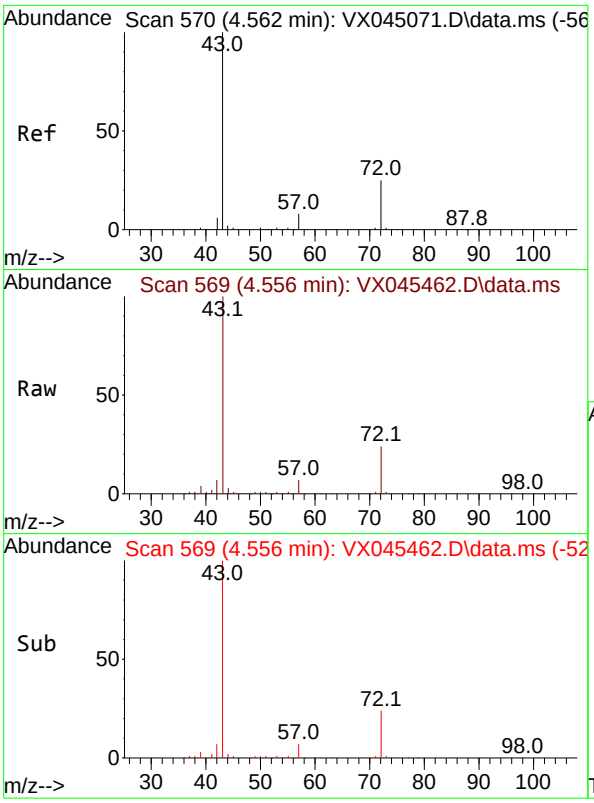


#24
1,1-Dichloroethane
Concen: 52.266 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 63 Resp: 106646

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.4	10.2
100	4.9	2.1	6.5



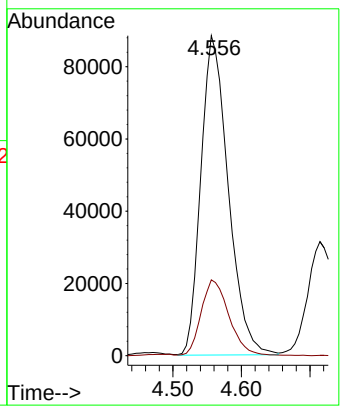


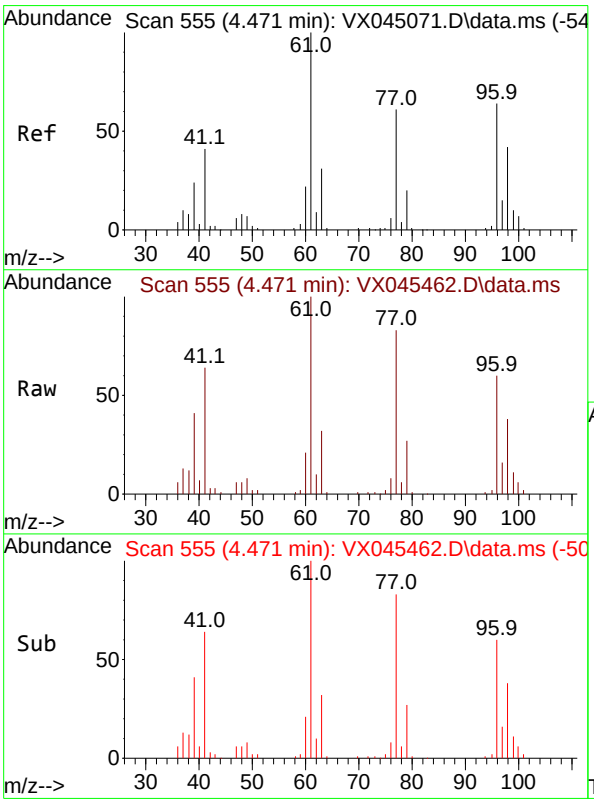
#25
2-Butanone
Concen: 270.113 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 43 Resp: 245592

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.0	30.0

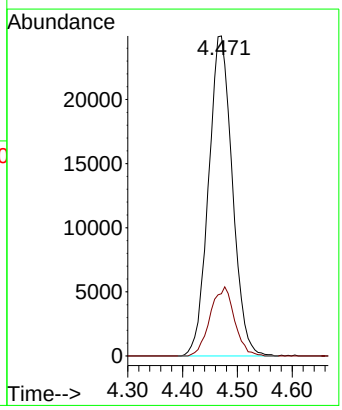


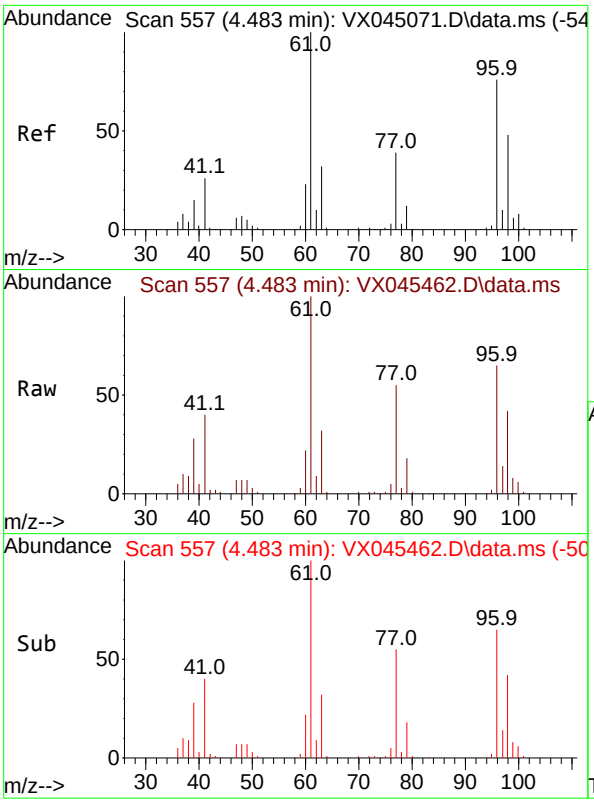


#26
2,2-Dichloropropane
Concen: 78.603 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 77 Resp: 75229

Ion	Ratio	Lower	Upper
77	100		
97	22.0	12.4	37.0



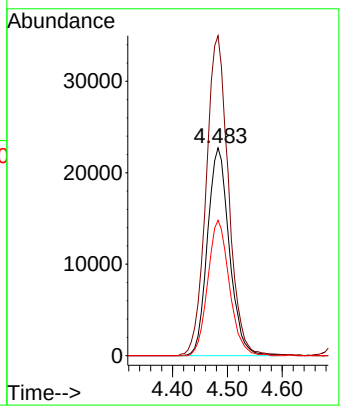


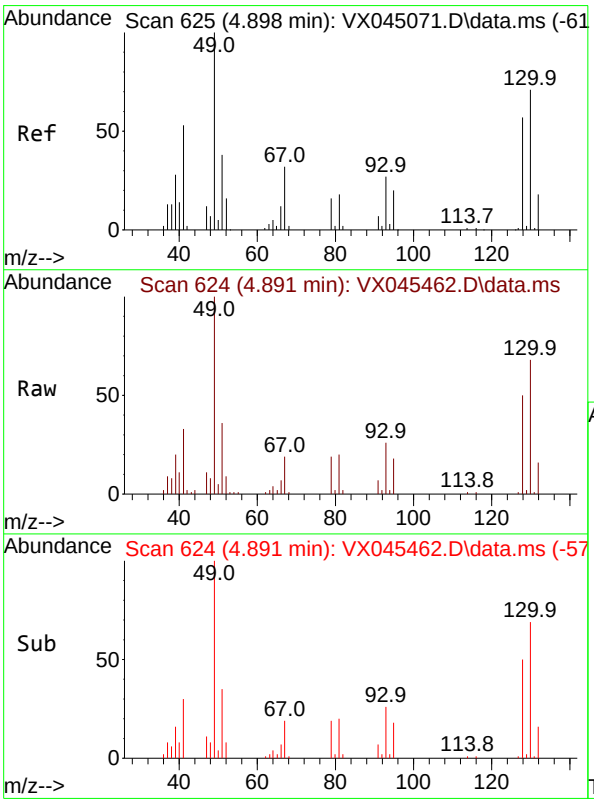
#27
cis-1,2-Dichloroethene
Concen: 51.117 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 96 Resp: 62696

Ion	Ratio	Lower	Upper
96	100		
61	158.1	0.0	283.2
98	64.6	0.0	128.0

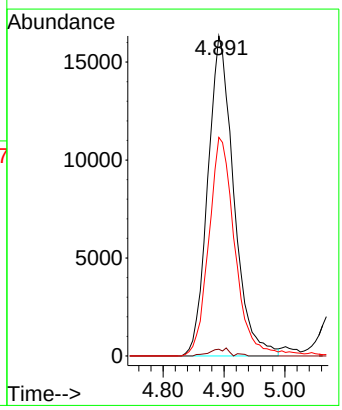


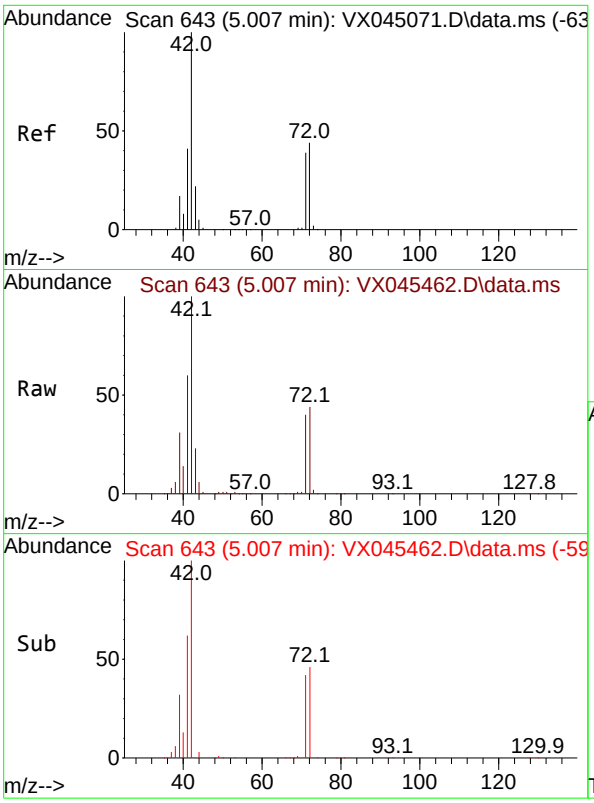


#28
Bromochloromethane
Concen: 49.686 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 49 Resp: 48323

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.4
130	69.0	56.1	84.1



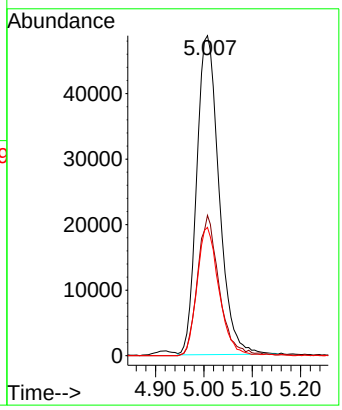


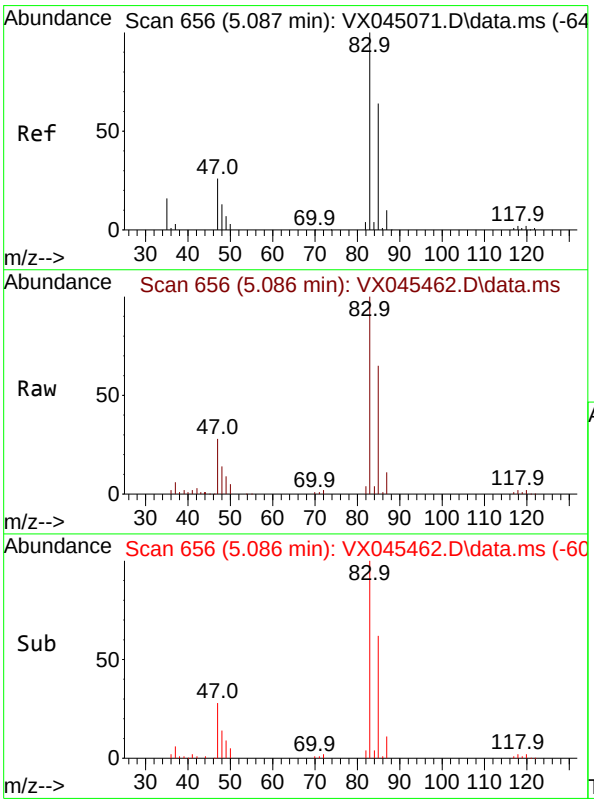
#29
Tetrahydrofuran
Concen: 255.764 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 42 Resp: 156166

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.1	51.1
71	39.6	31.4	47.0

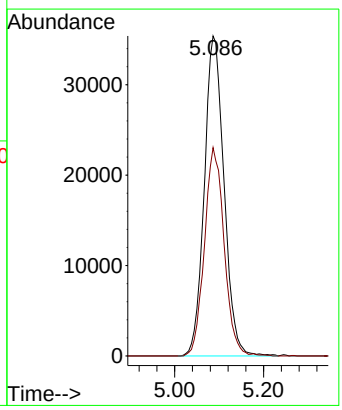


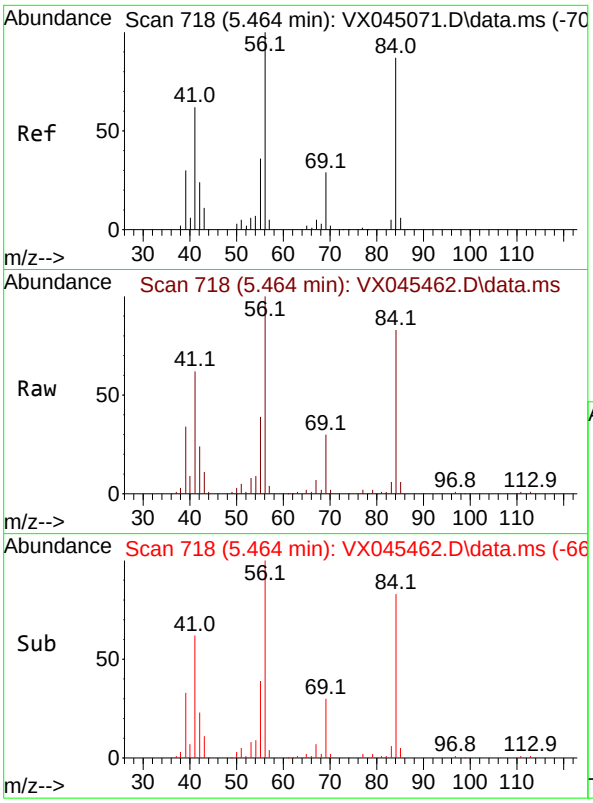


#30
Chloroform
Concen: 53.908 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 83 Resp: 109294

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.4	77.2



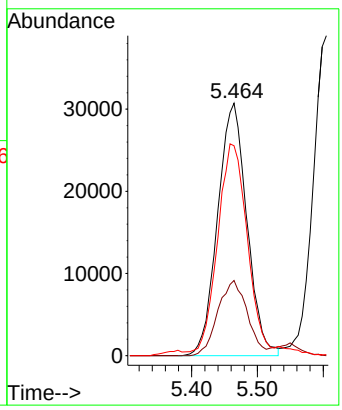


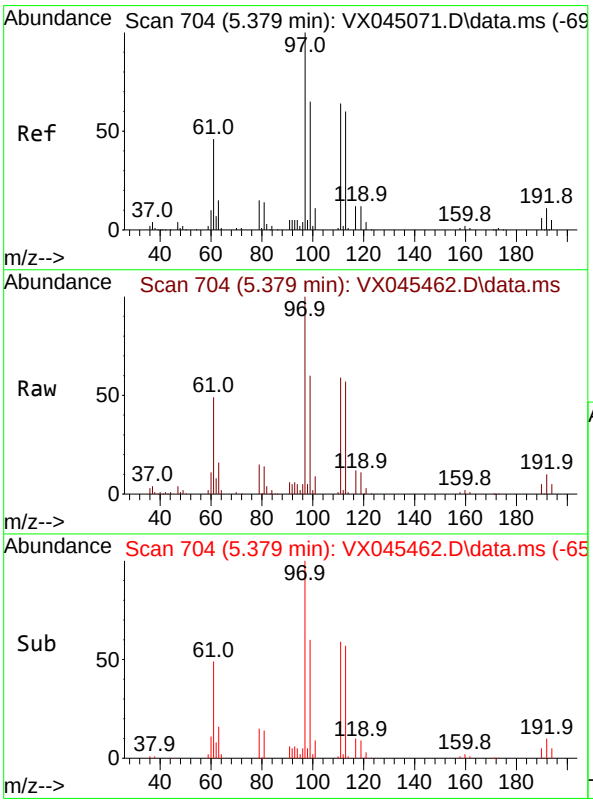
#31
Cyclohexane
Concen: 53.647 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 56 Resp: 95021

Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.4	35.2
84	81.0	69.4	104.2

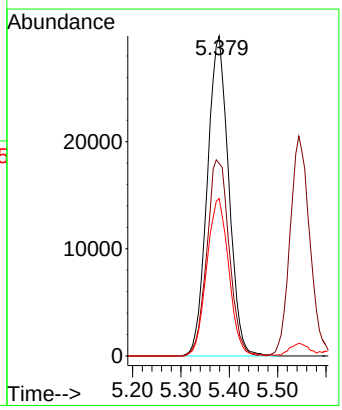


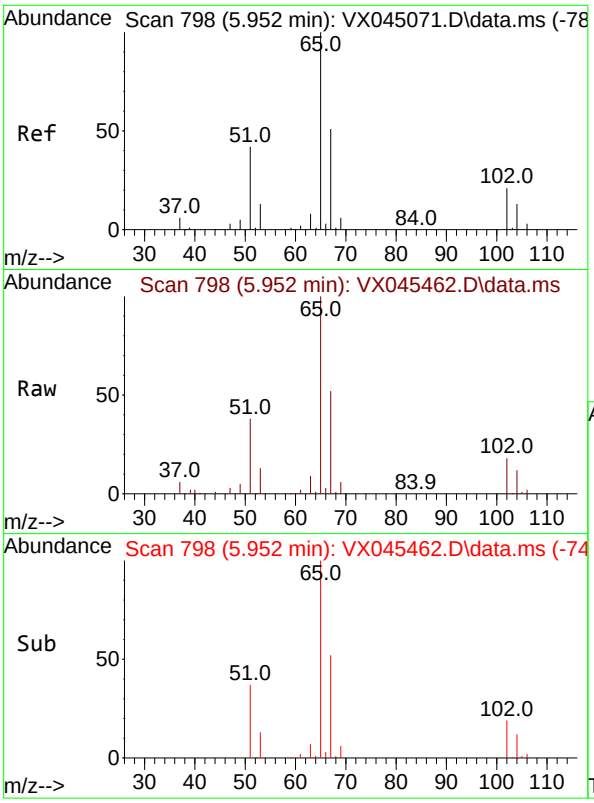


#32
1,1,1-Trichloroethane
Concen: 56.006 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 97 Resp: 91708

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.6	77.4
61	50.9	38.4	57.6



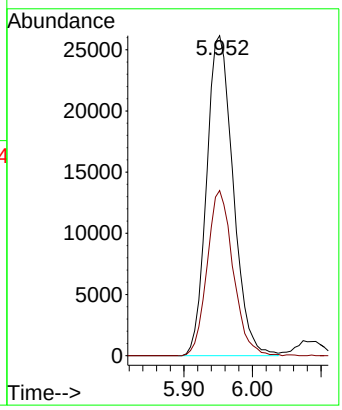


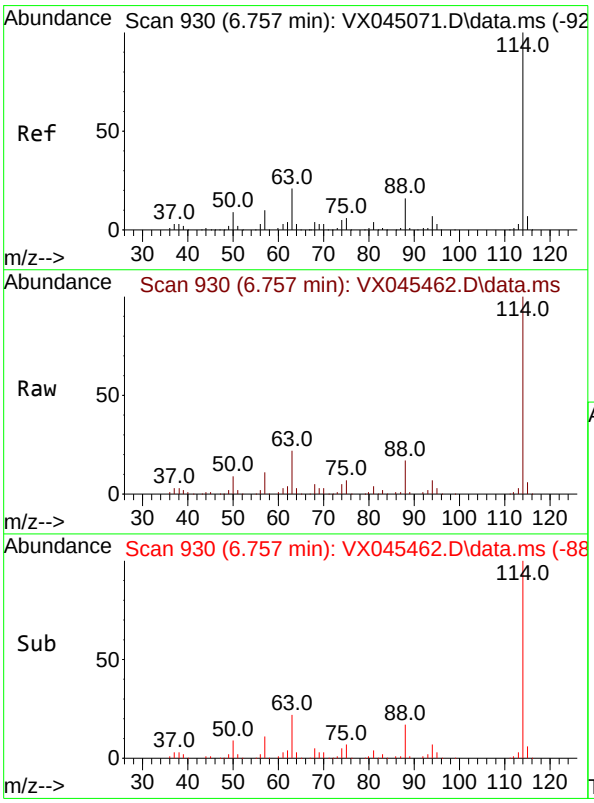
#33
1,2-Dichloroethane-d4
Concen: 54.024 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 65 Resp: 70333

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2

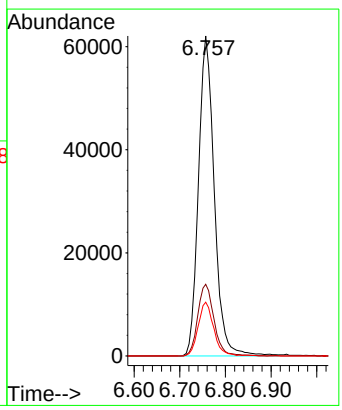


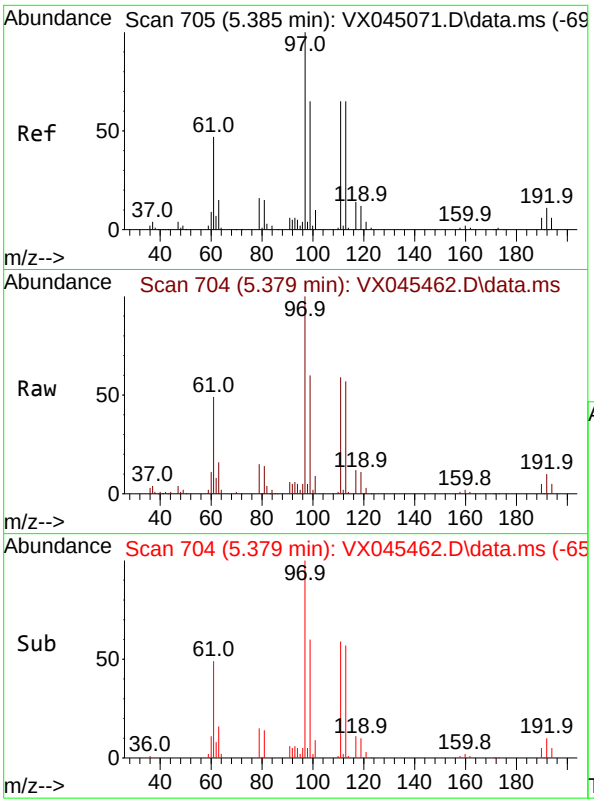


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:114 Resp: 149200

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	41.8
88	16.8	0.0	32.8



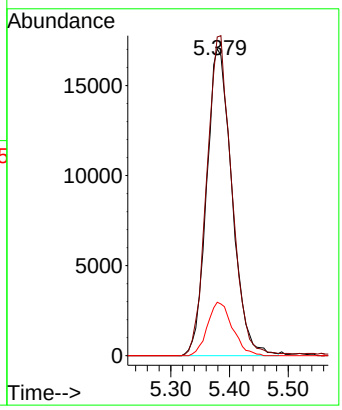


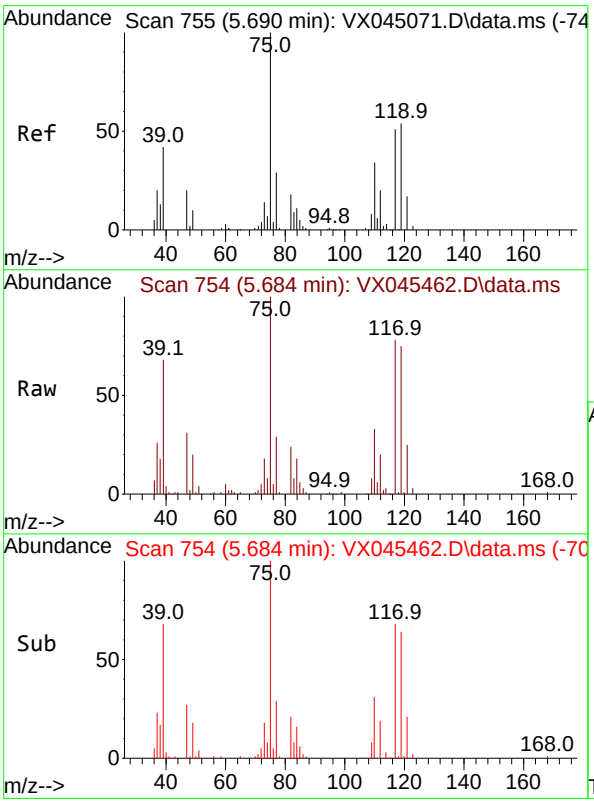
#35
Dibromofluoromethane
Concen: 51.177 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:113 Resp: 51057

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	17.1	14.3	21.5

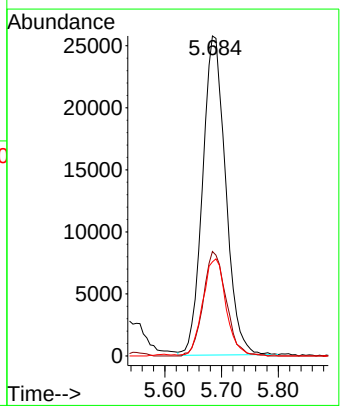


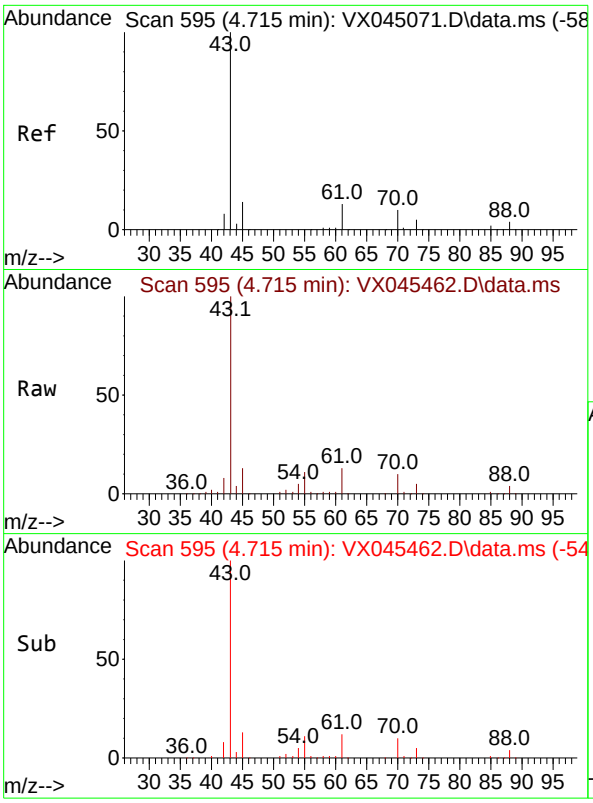


#36
1,1-Dichloropropene
Concen: 53.051 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 75 Resp: 72584

Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.9	50.6
77	30.9	24.5	36.7



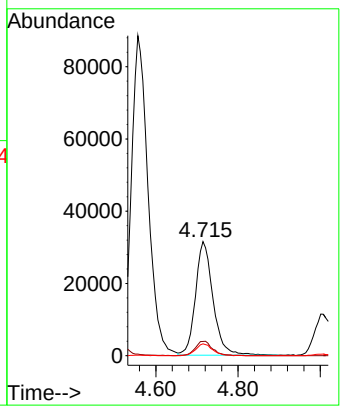


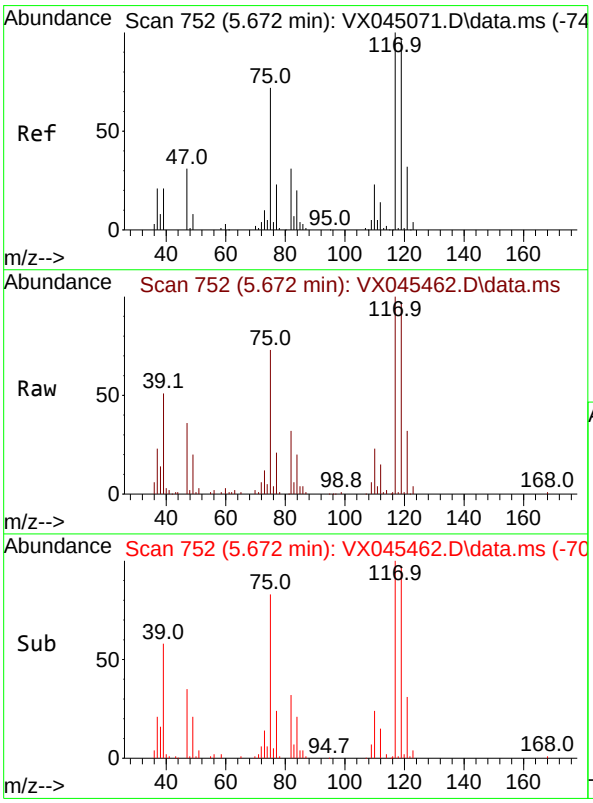
#37
Ethyl Acetate
Concen: 52.741 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 43 Resp: 92982

Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.8	16.2
70	10.0	7.7	11.5

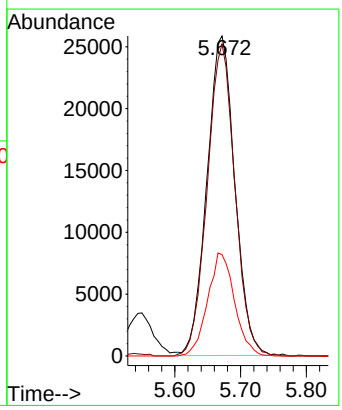


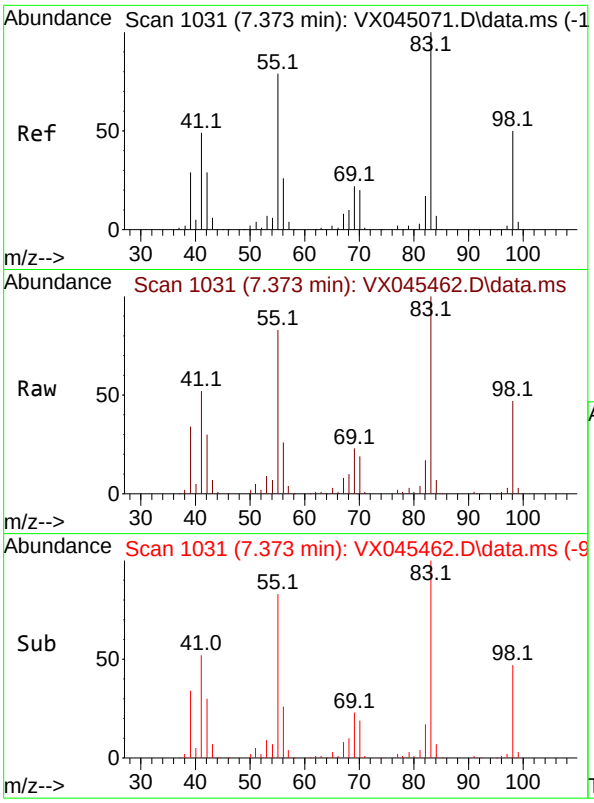


#38
Carbon Tetrachloride
Concen: 54.939 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:117 Resp: 76313

Ion	Ratio	Lower	Upper
117	100		
119	97.4	76.7	115.1
121	31.7	25.5	38.3



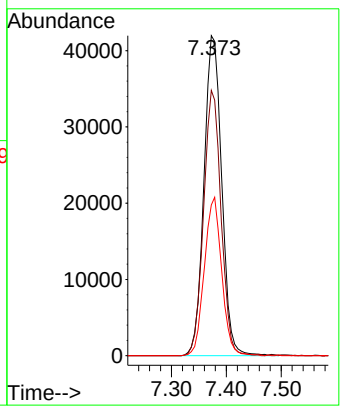


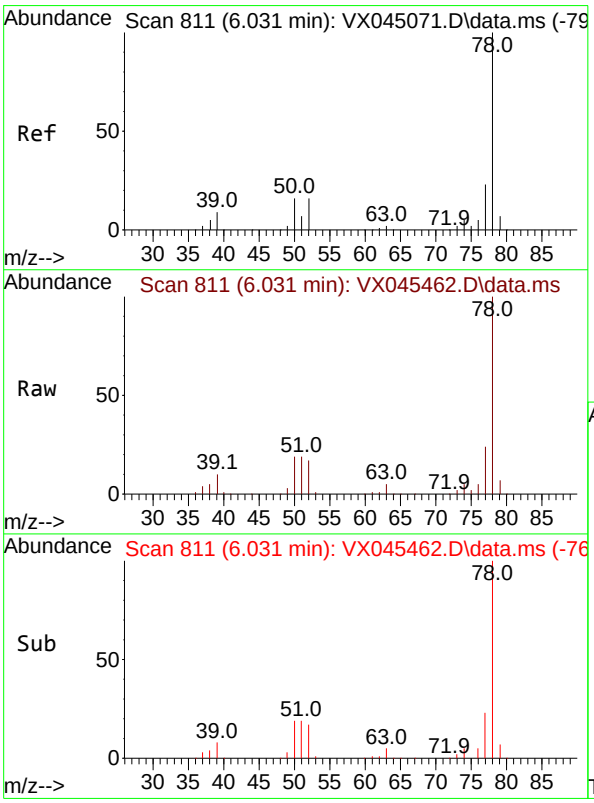
#39
Methylcyclohexane
Concen: 57.508 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 83 Resp: 94279

Ion	Ratio	Lower	Upper
83	100		
55	82.9	63.0	94.4
98	47.1	39.7	59.5

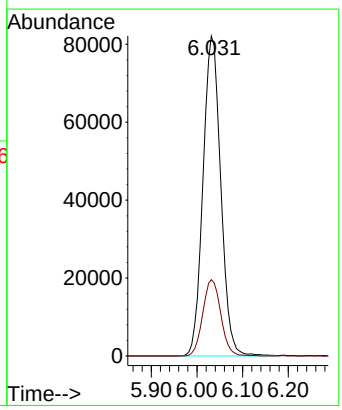


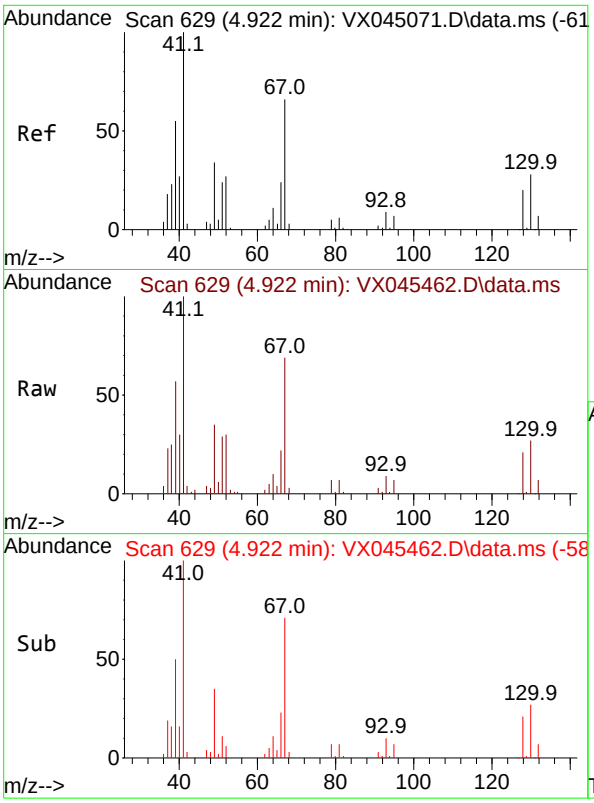


#40
Benzene
Concen: 51.328 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 78 Resp: 221759

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2



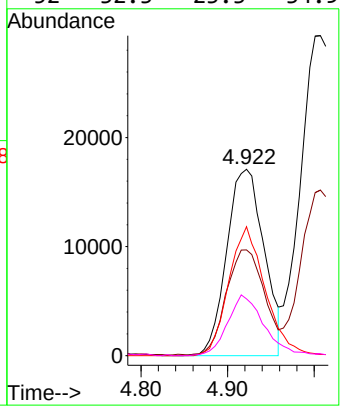


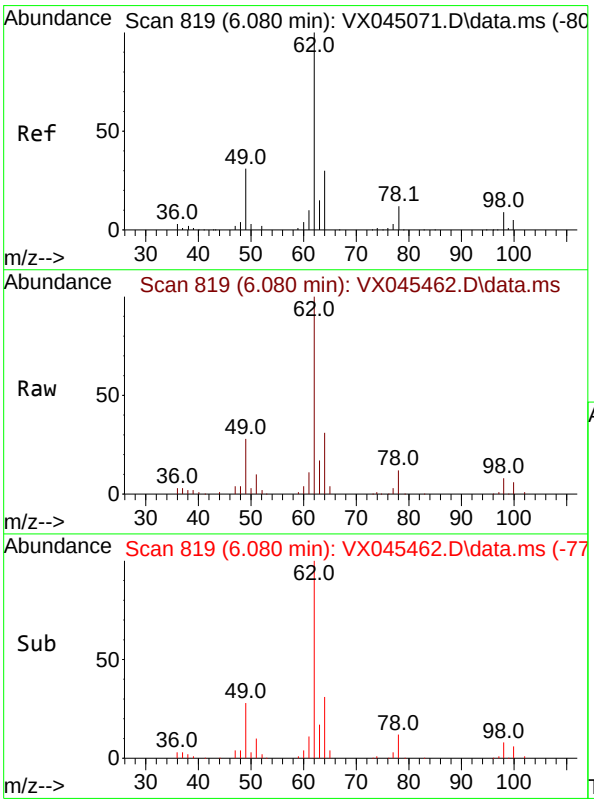
#41
Methacrylonitrile
Concen: 53.741 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 41 Resp: 51231

Ion	Ratio	Lower	Upper
41	100		
39	57.3	44.6	67.0
67	67.7	53.9	80.9
52	32.3	23.3	34.9

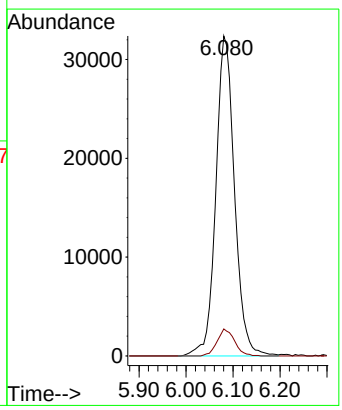


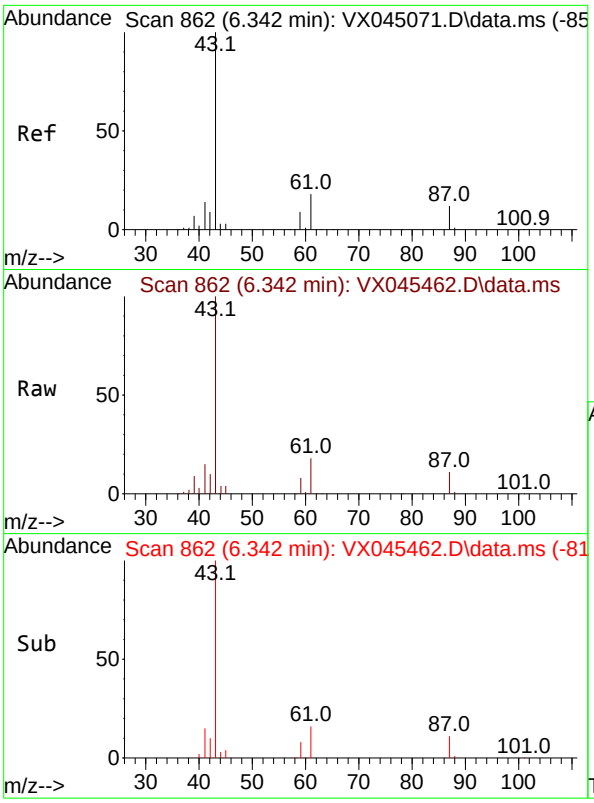


#42
1,2-Dichloroethane
Concen: 57.574 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 62 Resp: 89573

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	18.2



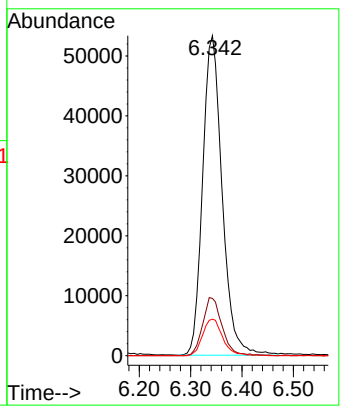


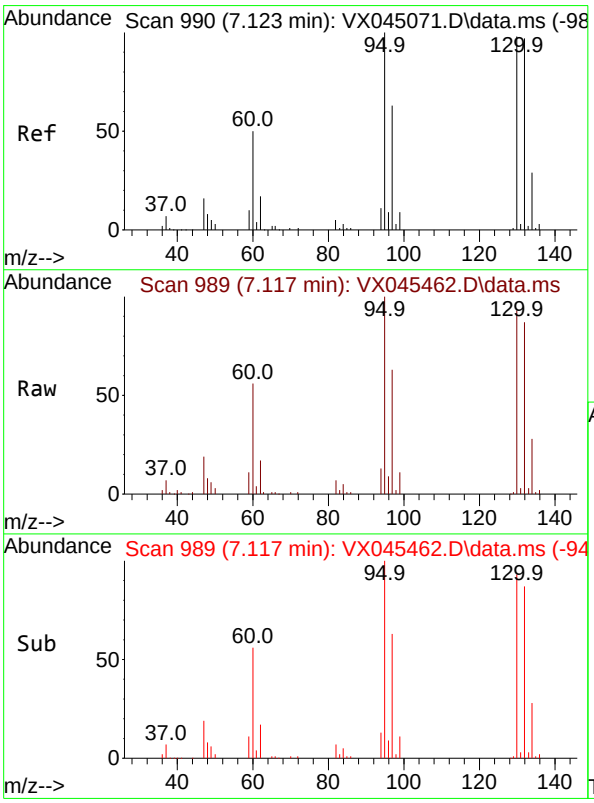
#43
Isopropyl Acetate
Concen: 53.941 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 43 Resp: 140624

Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.9	22.3
87	11.8	9.4	14.2

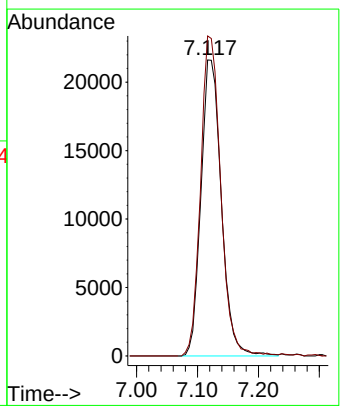


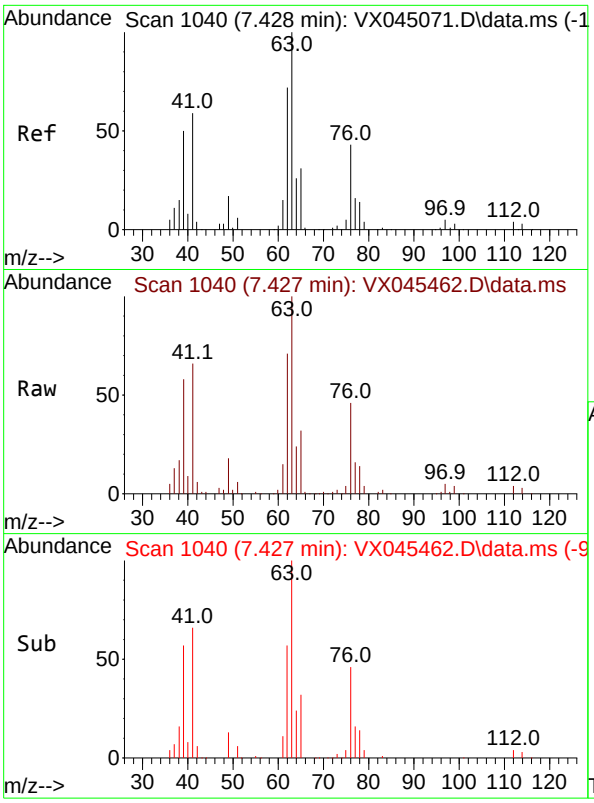


#44
Trichloroethene
Concen: 49.602 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:130 Resp: 50320

Ion	Ratio	Lower	Upper
130	100		
95	108.1	0.0	205.0



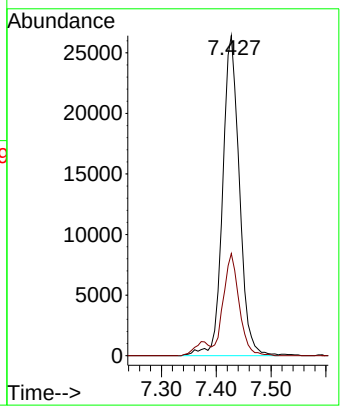


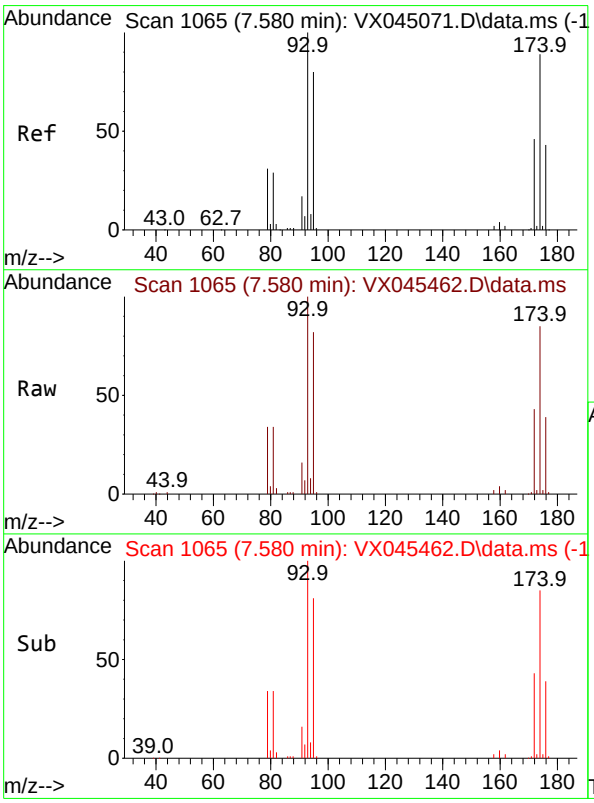
#45
1,2-Dichloropropane
Concen: 50.601 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 63 Resp: 56209

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.7	37.1

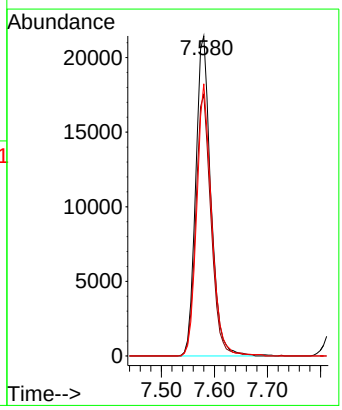


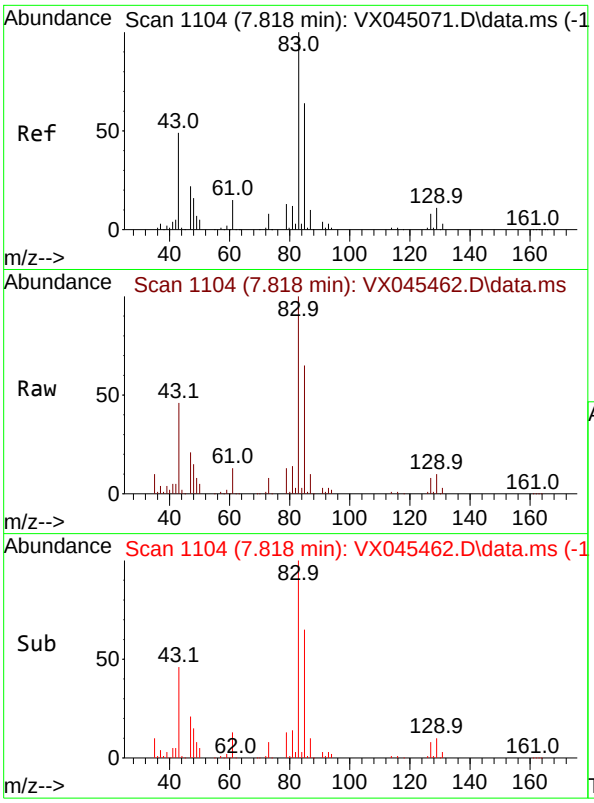


#46
Dibromomethane
Concen: 54.339 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 93 Resp: 42664

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.8	98.8
174	83.6	72.2	108.2



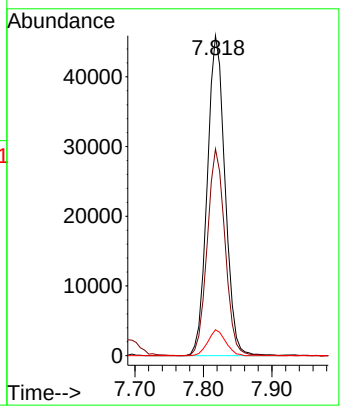


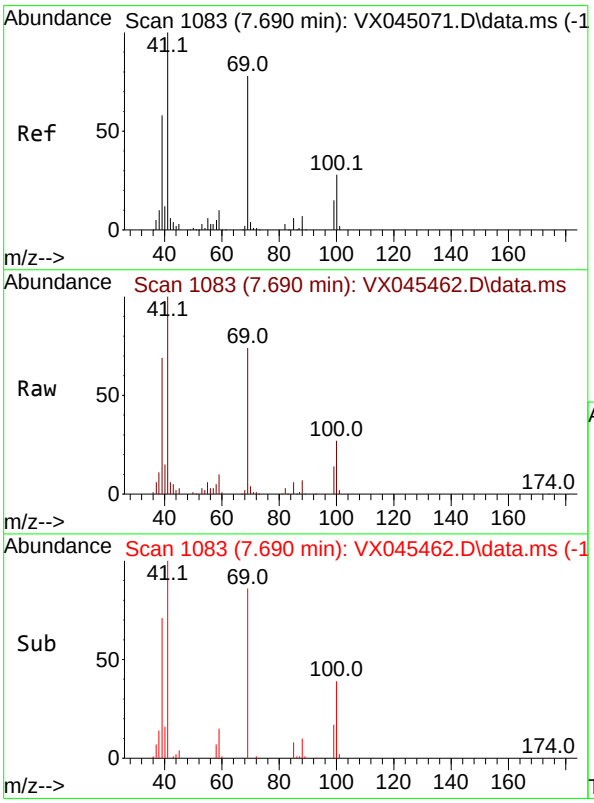
#47
Bromodichloromethane
Concen: 53.857 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 83 Resp: 82942

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.1	76.7
127	8.1	6.4	9.6

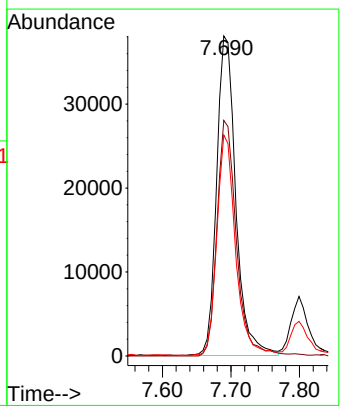


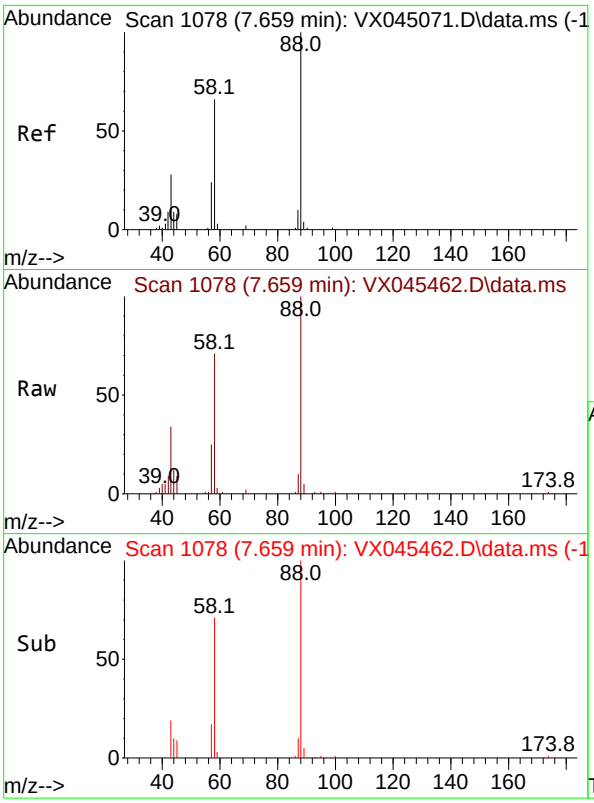


#48
Methyl methacrylate
Concen: 56.494 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 41 Resp: 73888

Ion	Ratio	Lower	Upper
41	100		
69	74.9	63.0	94.6
39	67.1	47.5	71.3



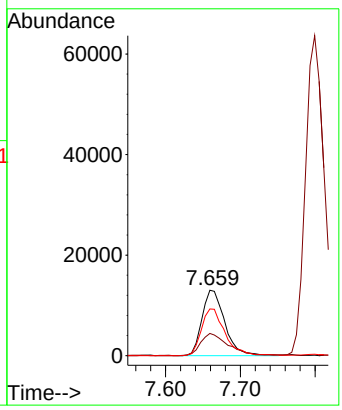


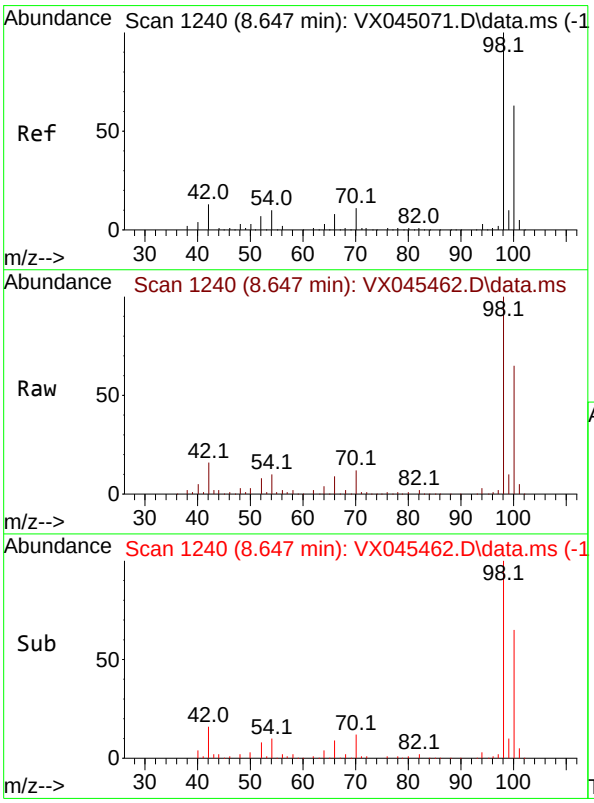
#49
1,4-Dioxane
Concen: 1000.591 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 88 Resp: 27605

Ion	Ratio	Lower	Upper
88	100		
43	40.8	28.7	43.1
58	72.8	55.8	83.8

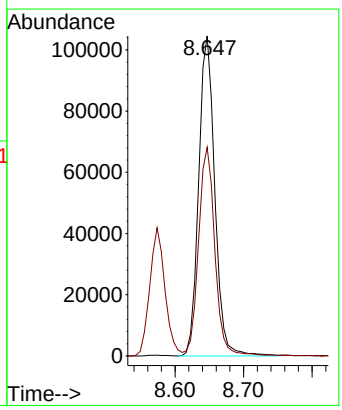


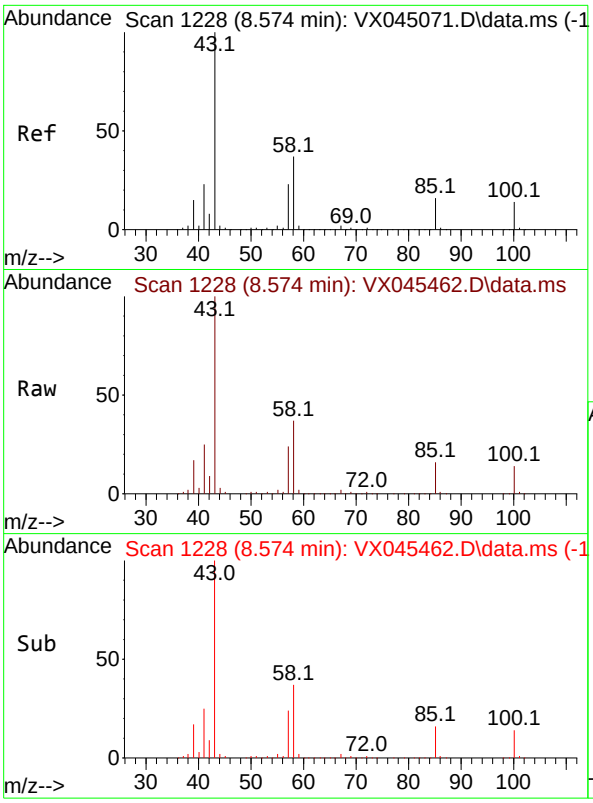


#50
Toluene-d8
Concen: 47.378 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 98 Resp: 171361

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.0	78.0



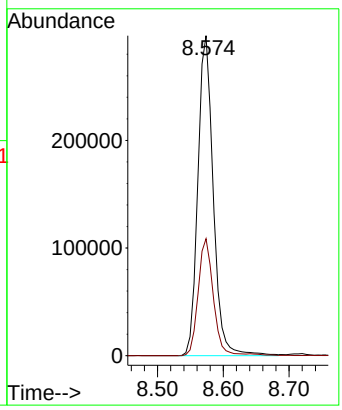


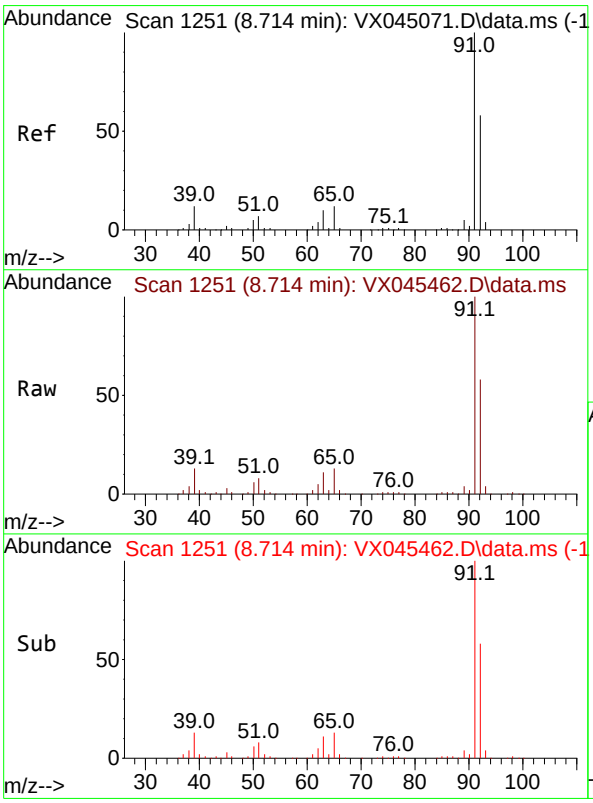
#51
4-Methyl-2-Pentanone
Concen: 277.099 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 43 Resp: 485045

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.2	43.8

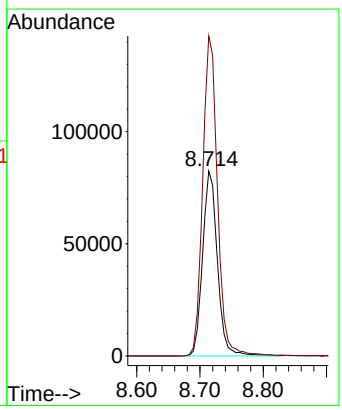


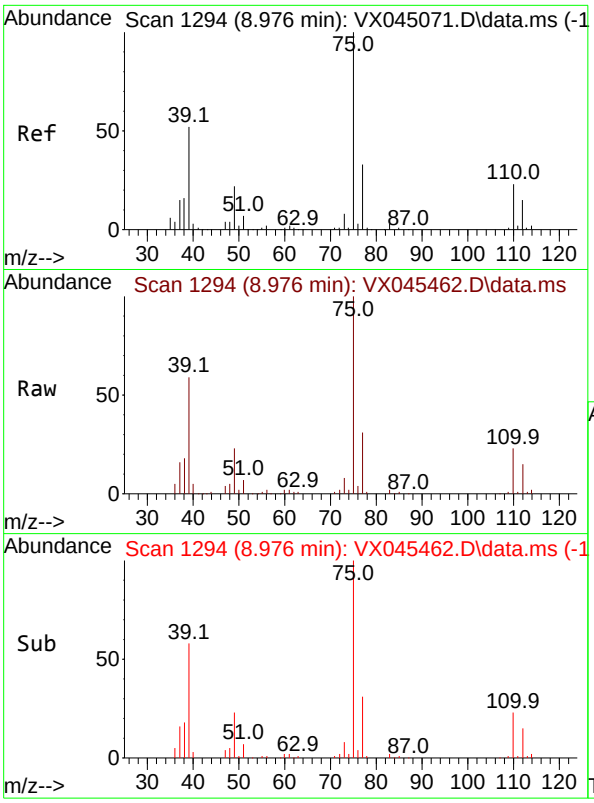


#52
Toluene
Concen: 52.942 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 92 Resp: 134202

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.9	208.3



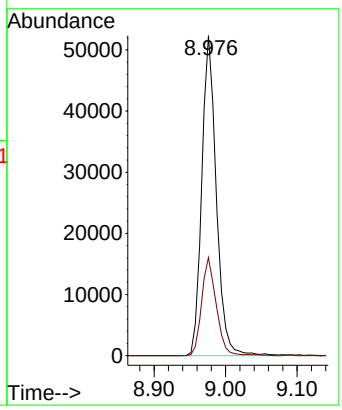


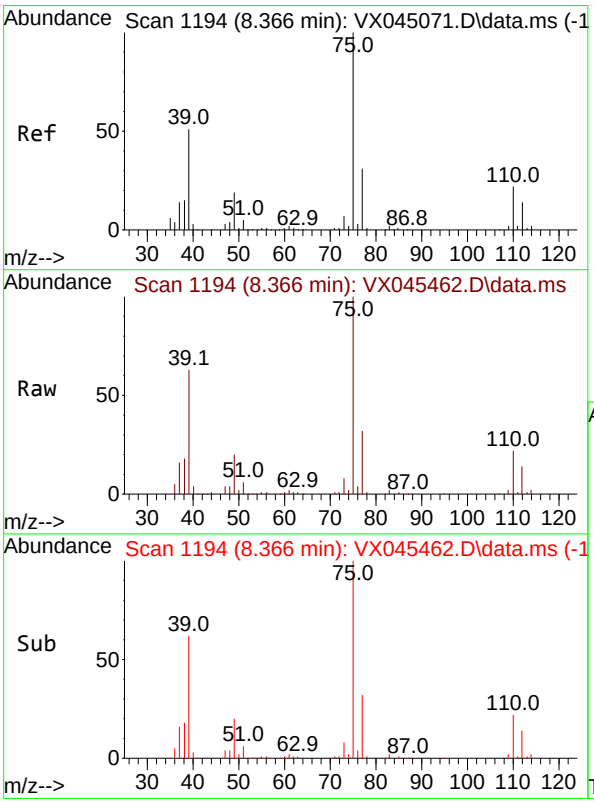
#53
t-1,3-Dichloropropene
Concen: 57.485 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 75 Resp: 74011

Ion	Ratio	Lower	Upper
75	100		
77	30.6	26.5	39.7

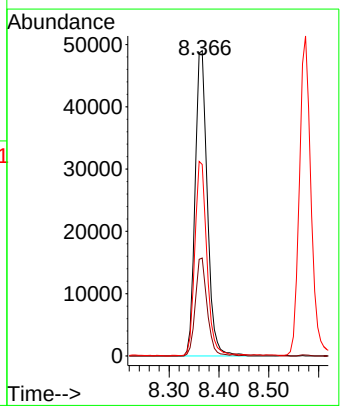


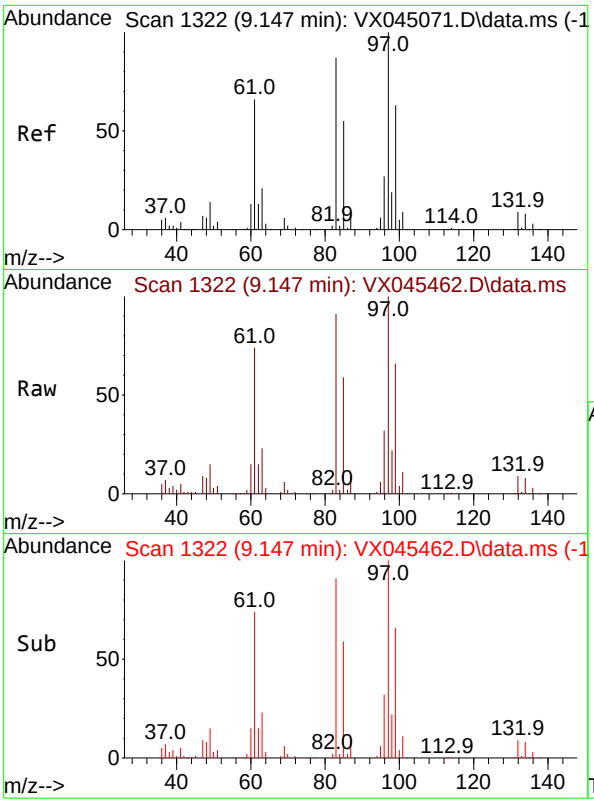


#54
cis-1,3-Dichloropropene
Concen: 55.713 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 75 Resp: 83643

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.7	37.1
39	62.6	40.7	61.1#



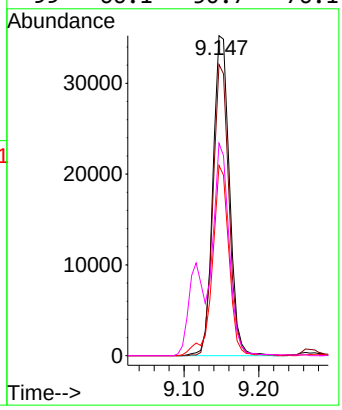


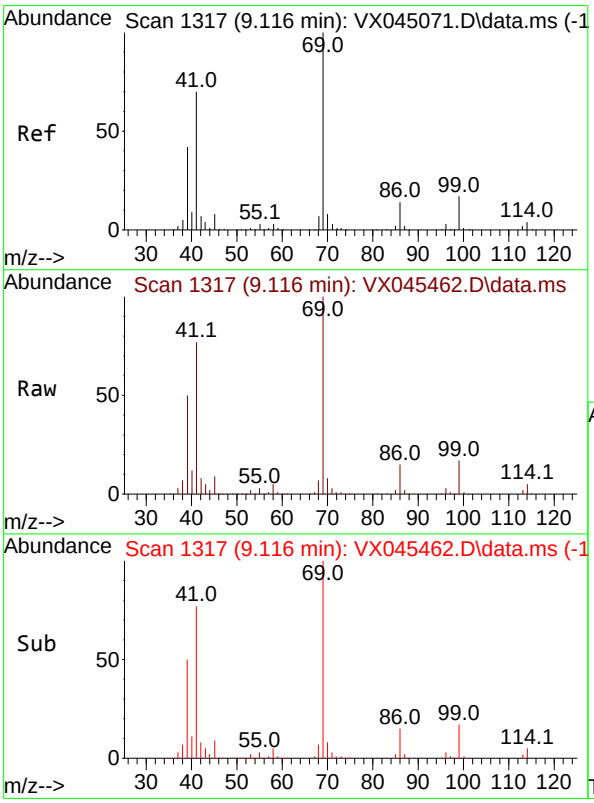
#55
1,1,2-Trichloroethane
Concen: 51.916 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 97 Resp: 54177

Ion	Ratio	Lower	Upper
97	100		
83	91.0	69.4	104.2
85	59.4	44.1	66.1
99	66.1	50.7	76.1

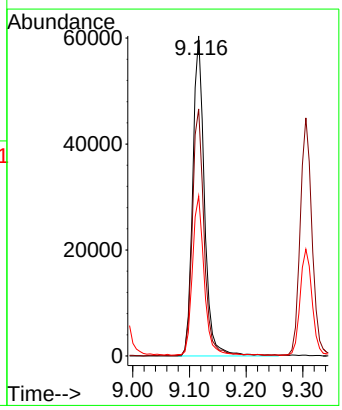


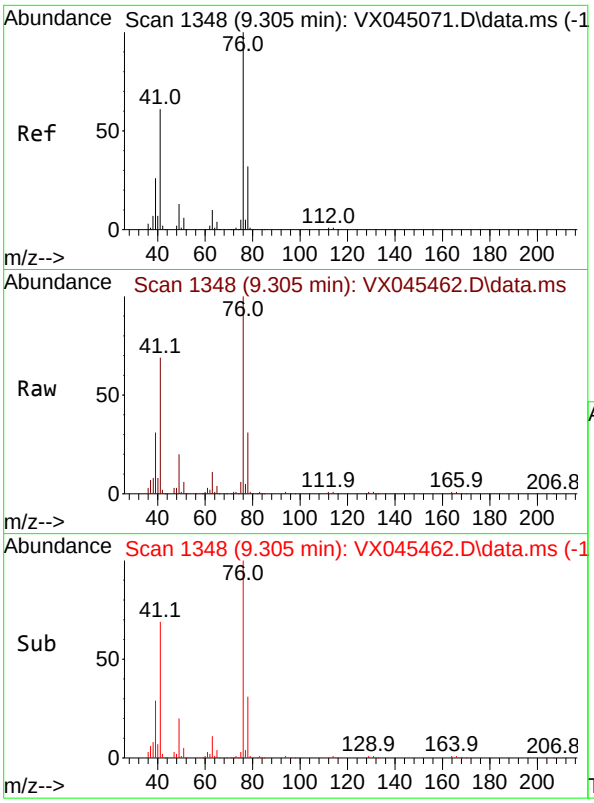


#56
Ethyl methacrylate
Concen: 54.505 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 69 Resp: 86460

Ion	Ratio	Lower	Upper
69	100		
41	77.3	57.0	85.4
39	49.6	34.2	51.4



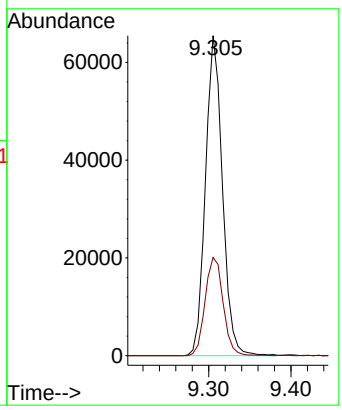


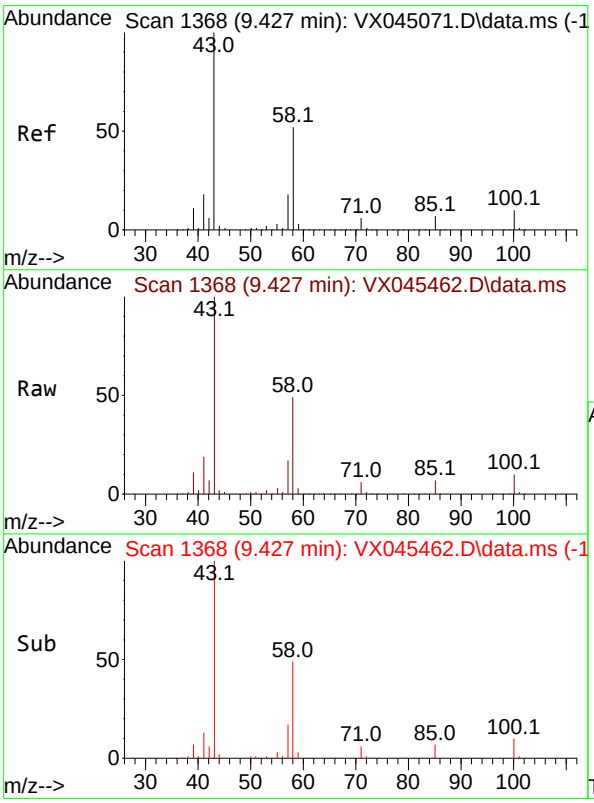
#57
1,3-Dichloropropane
Concen: 51.936 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 76 Resp: 93794

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3

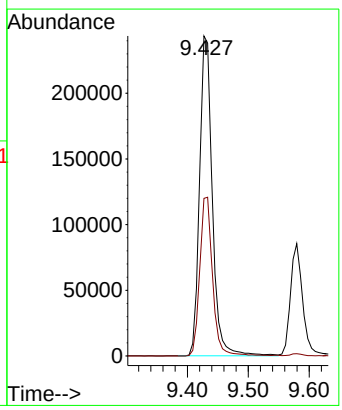


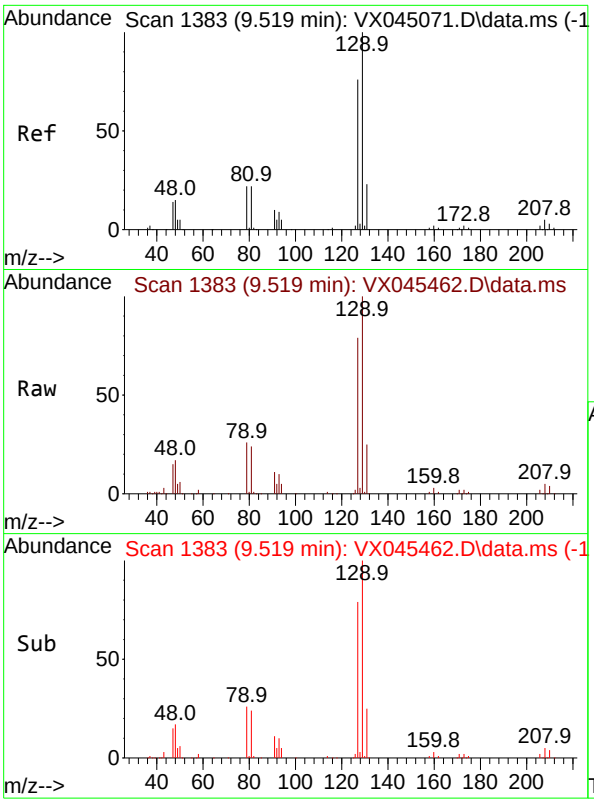


#59
2-Hexanone
Concen: 279.563 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 43 Resp: 354561

Ion	Ratio	Lower	Upper
43	100		
58	50.0	25.9	77.6



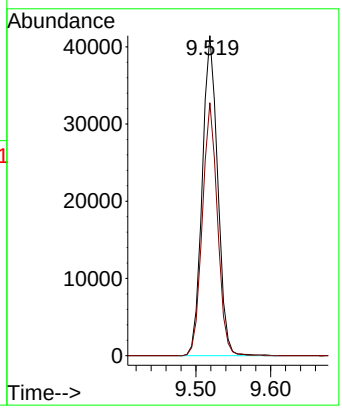


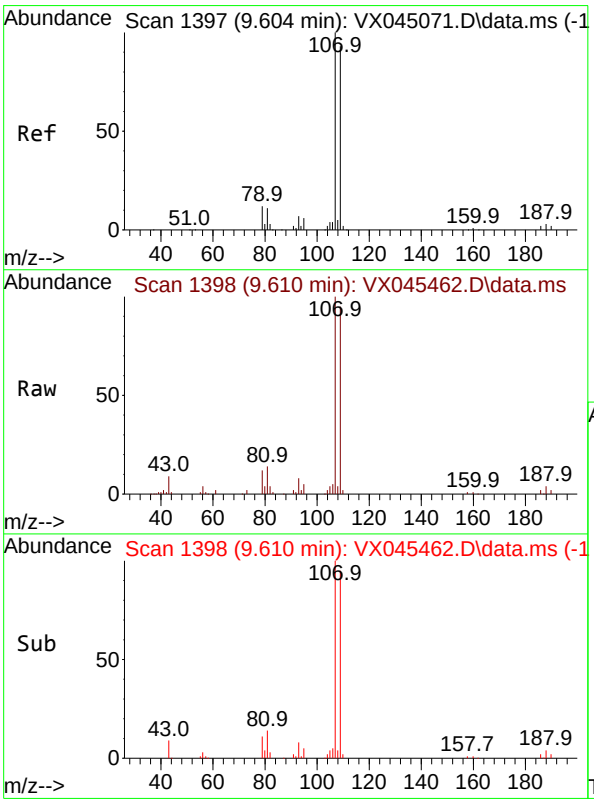
#60
Dibromochloromethane
Concen: 54.391 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:129 Resp: 59348

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5

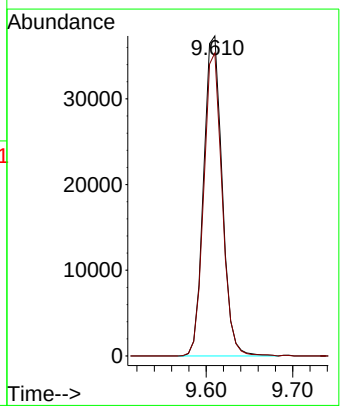


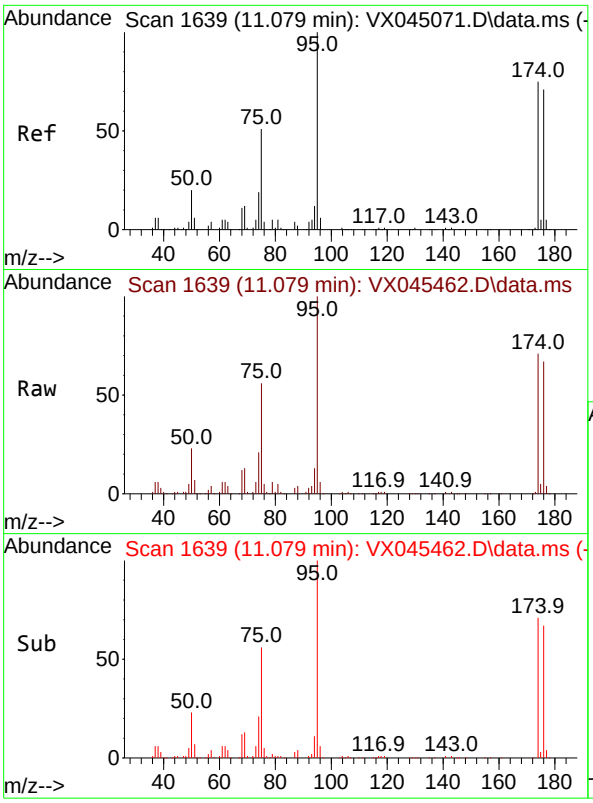


#61
1,2-Dibromoethane
Concen: 53.243 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:107 Resp: 55467

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1



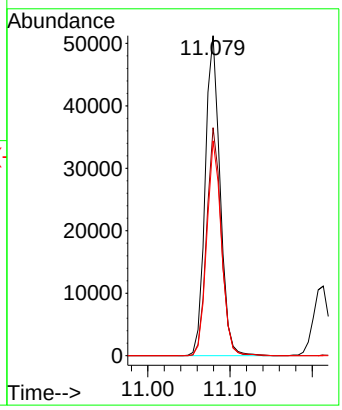


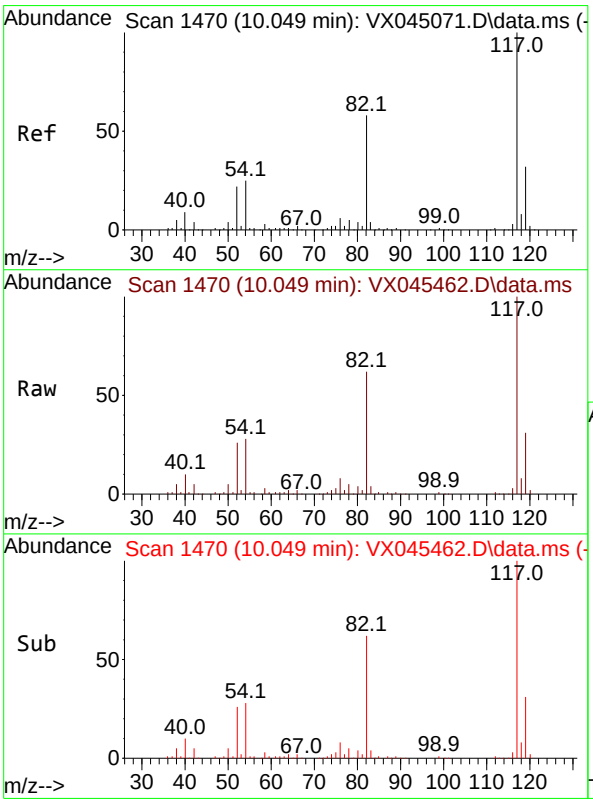
#62
4-Bromofluorobenzene
Concen: 53.525 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 95 Resp: 64151

Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	148.2
176	66.3	0.0	141.4

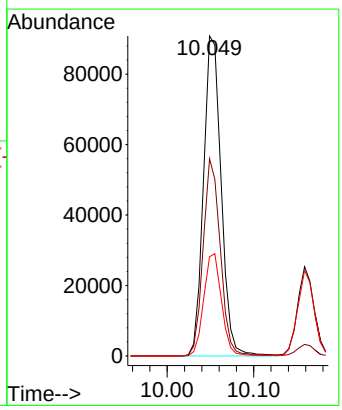


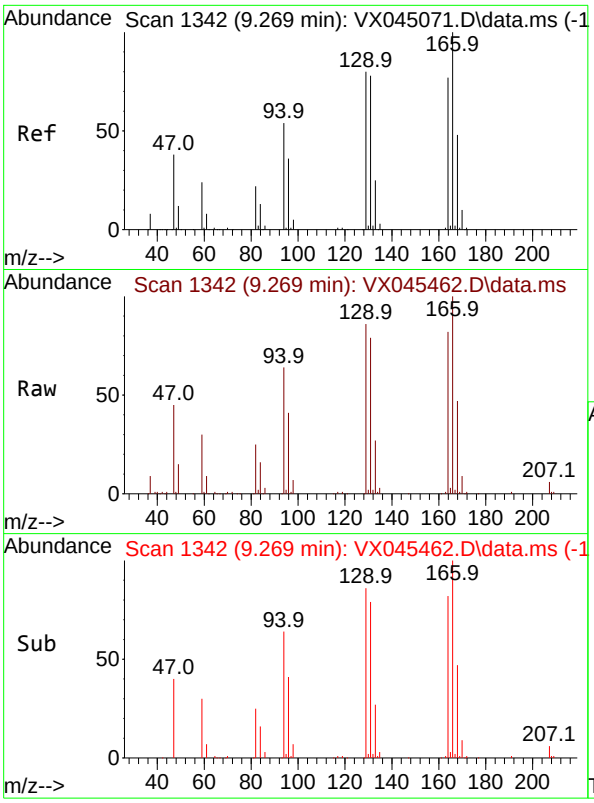


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:117 Resp: 128995

Ion	Ratio	Lower	Upper
117	100		
82	61.7	46.3	69.5
119	31.0	25.7	38.5



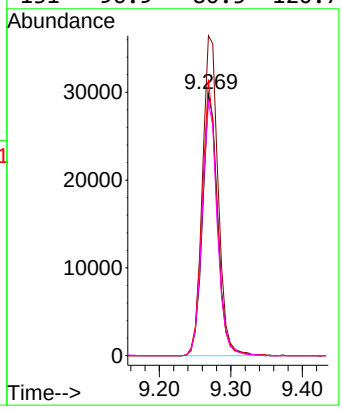


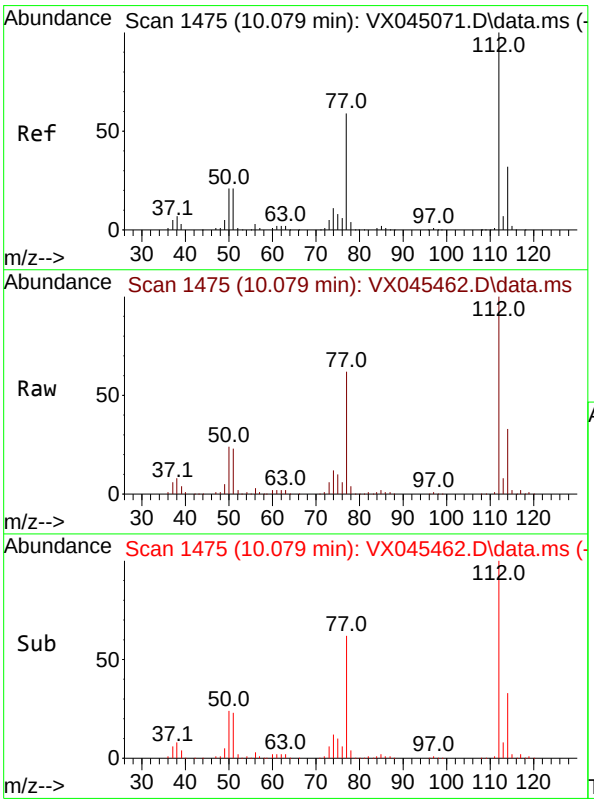
#64
Tetrachloroethene
Concen: 53.180 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:164 Resp: 43935

Ion	Ratio	Lower	Upper
164	100		
166	122.2	103.6	155.4
129	105.4	82.7	124.1
131	96.9	80.5	120.7

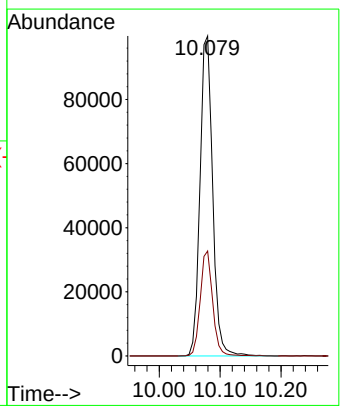


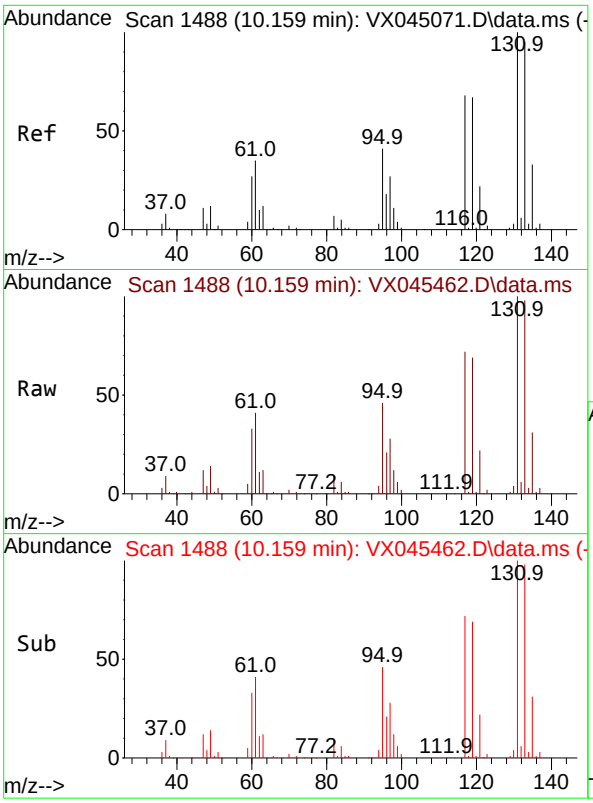


#65
Chlorobenzene
Concen: 52.887 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:112 Resp: 144357

Ion	Ratio	Lower	Upper
112	100		
114	32.8	26.0	39.0



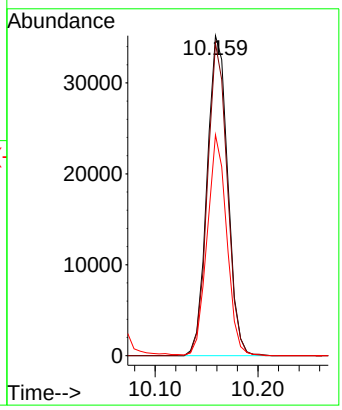


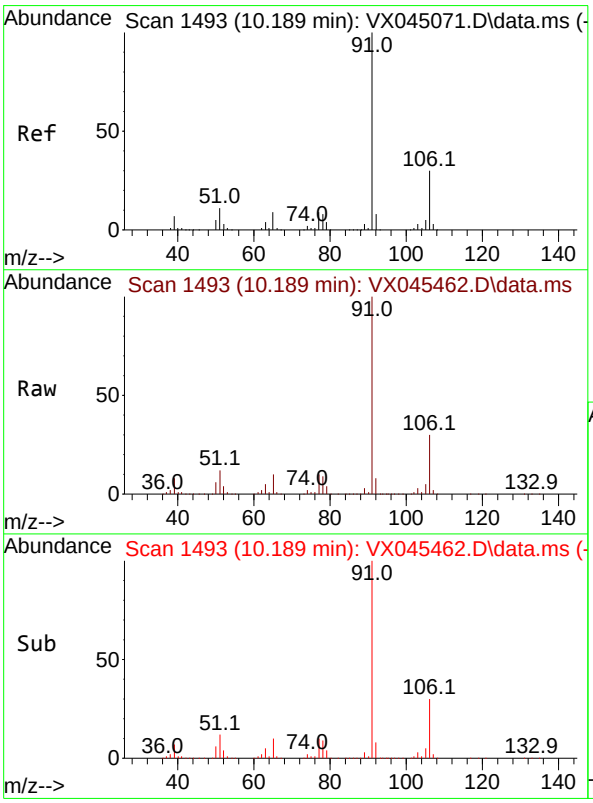
#66
1,1,1,2-Tetrachloroethane
Concen: 53.877 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:131 Resp: 48973

Ion	Ratio	Lower	Upper
131	100		
133	94.2	48.6	145.9
119	65.4	33.9	101.7

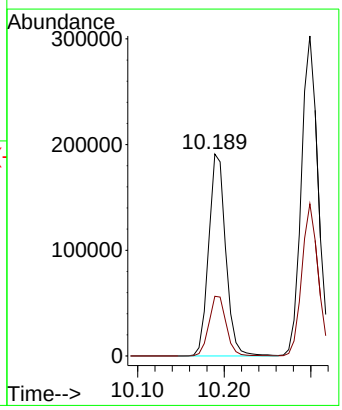


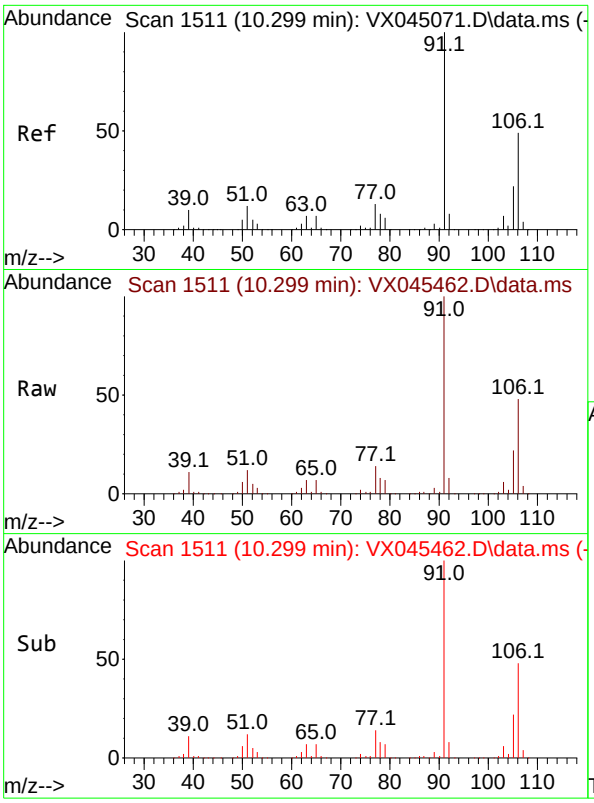


#67
Ethyl Benzene
Concen: 54.944 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 91 Resp: 261313

Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.9	35.9



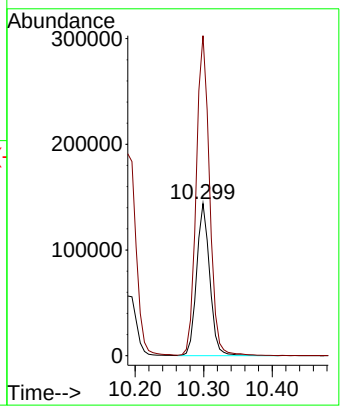


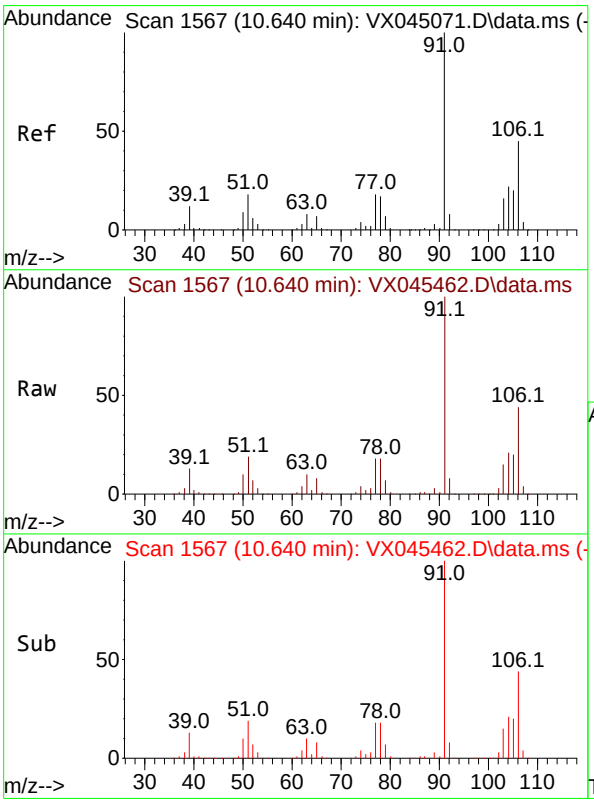
#68
m/p-Xylenes
Concen: 109.870 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:106 Resp: 191289

Ion	Ratio	Lower	Upper
106	100		
91	214.4	165.4	248.0

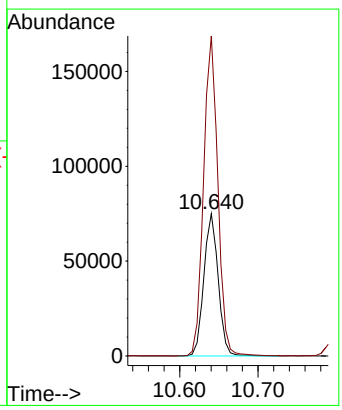


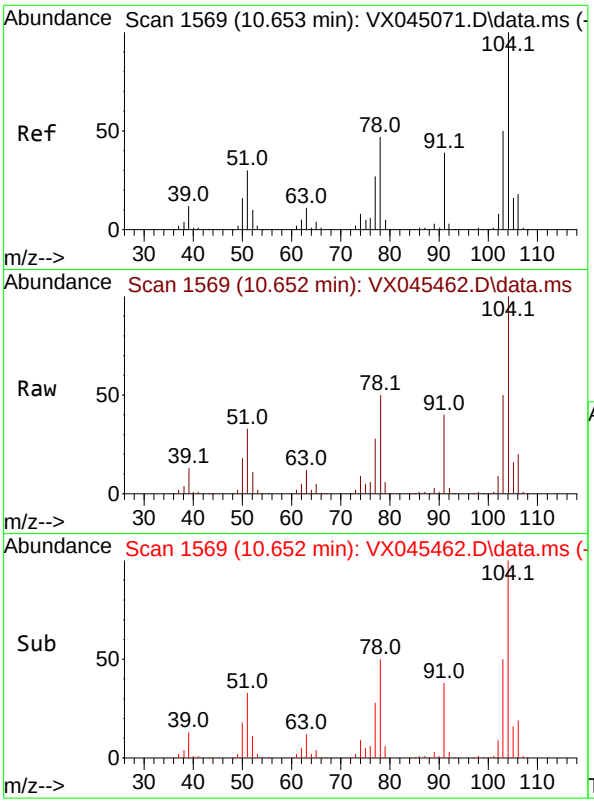


#69
o-Xylene
Concen: 54.099 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:106 Resp: 94995

Ion	Ratio	Lower	Upper
106	100		
91	224.4	109.9	329.6



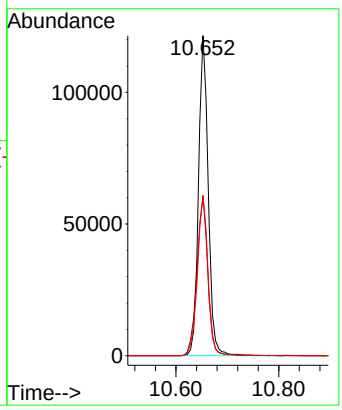


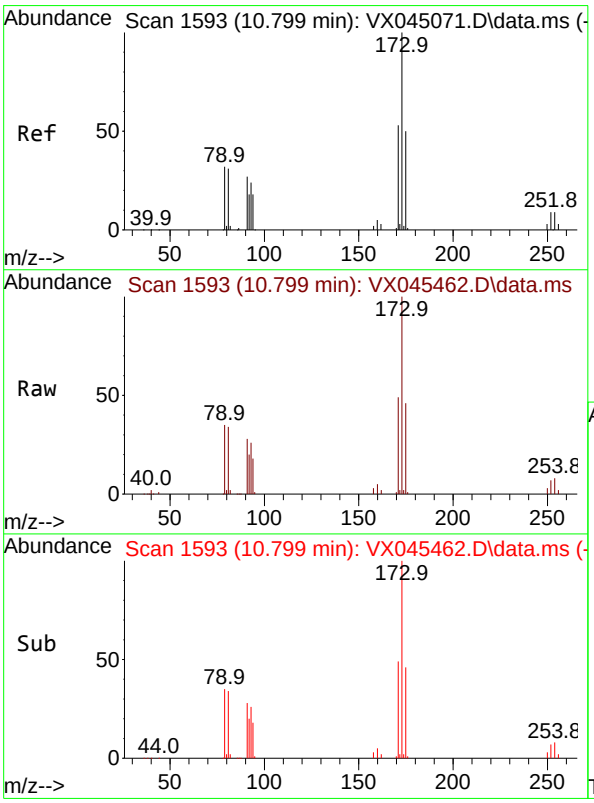
#70
Styrene
Concen: 56.074 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:104 Resp: 159320

Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.2	63.4
103	54.5	43.8	65.8

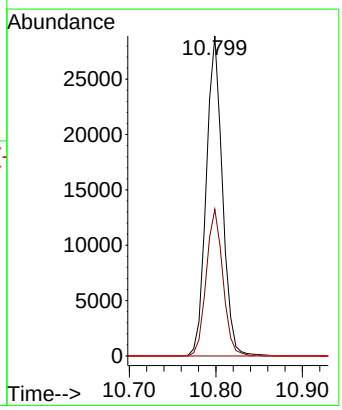


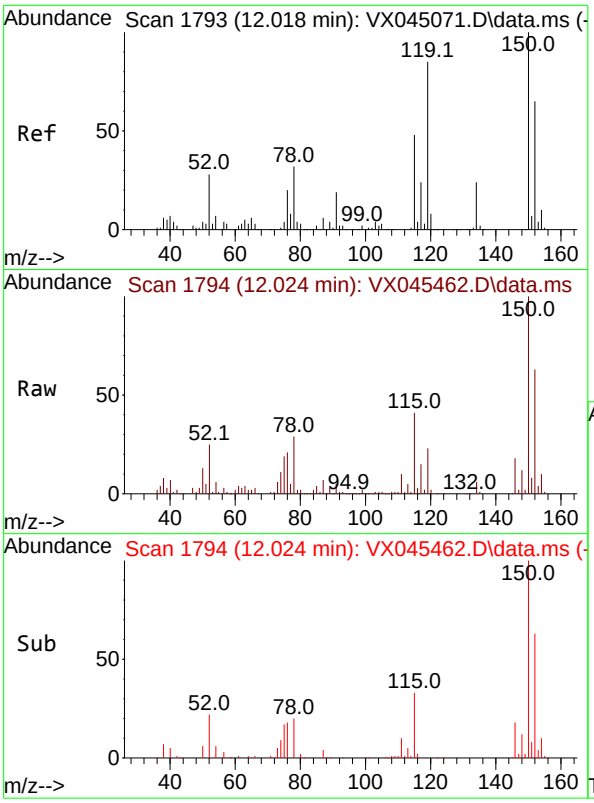


#71
Bromoform
Concen: 54.637 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:173 Resp: 37451

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.6	73.6
254	0.0	0.0	0.0



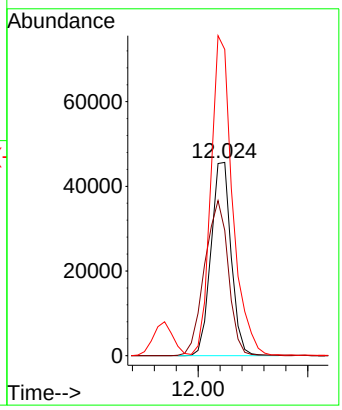


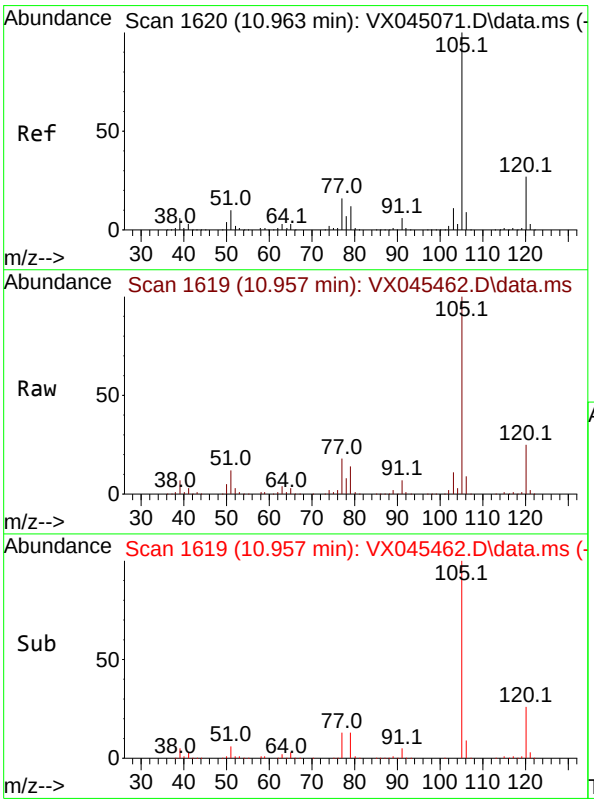
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:152 Resp: 58223

Ion	Ratio	Lower	Upper
152	100		
115	94.6	44.2	132.6
150	177.6	0.0	349.0

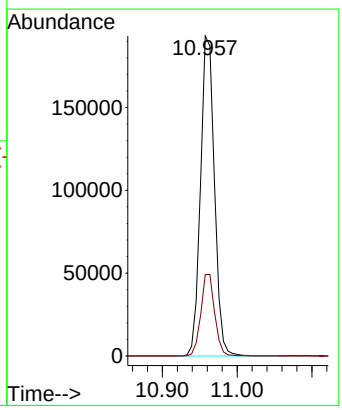


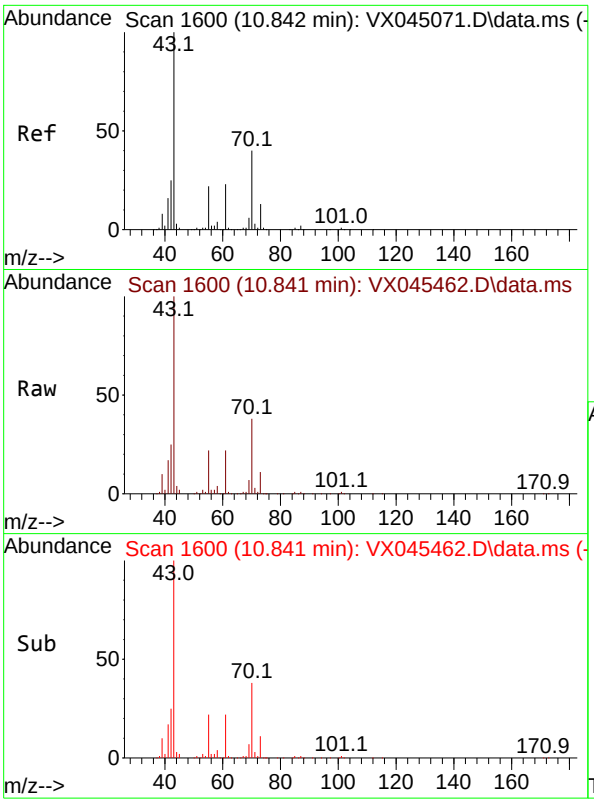


#73
Isopropylbenzene
Concen: 55.108 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:105 Resp: 250437

Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.2	39.5



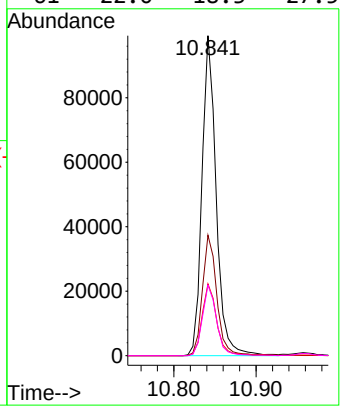


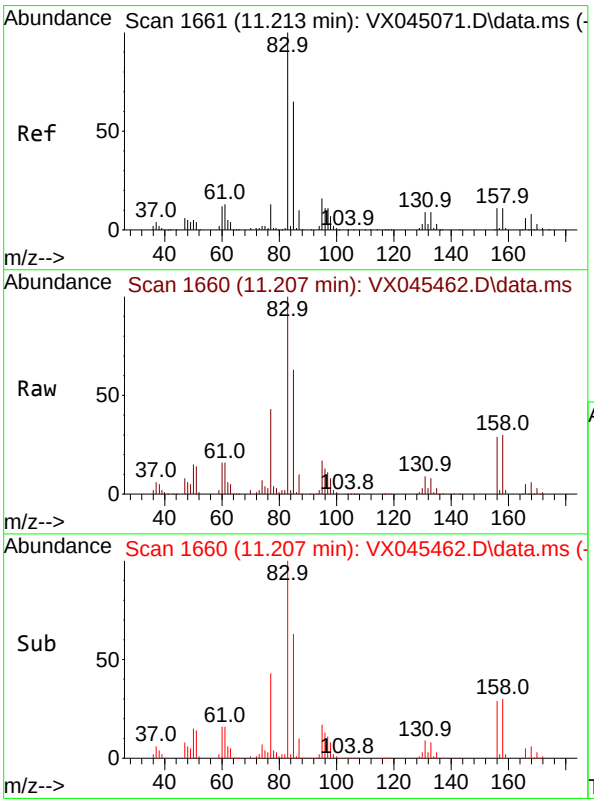
#74
N-amyl acetate
Concen: 55.933 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 43 Resp: 119273

Ion	Ratio	Lower	Upper
43	100		
70	38.5	31.8	47.6
55	23.3	18.3	27.5
61	22.0	18.3	27.5

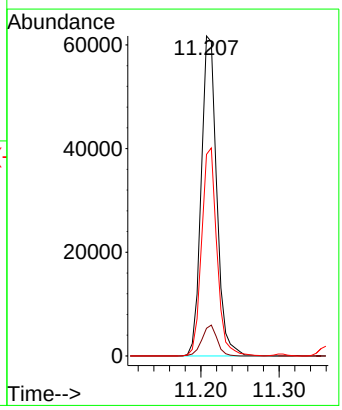


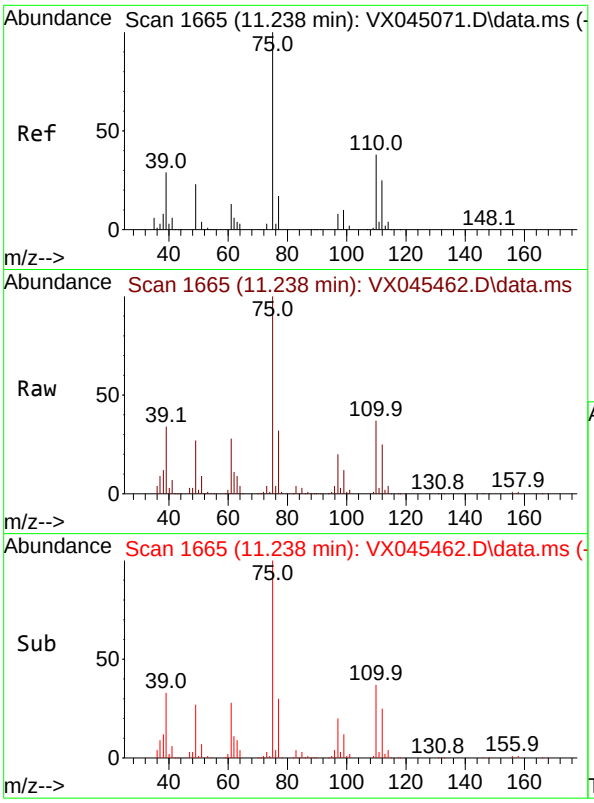


#75
1,1,2,2-Tetrachloroethane
Concen: 50.761 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 83 Resp: 84652

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.5	13.4
85	64.3	31.7	95.1



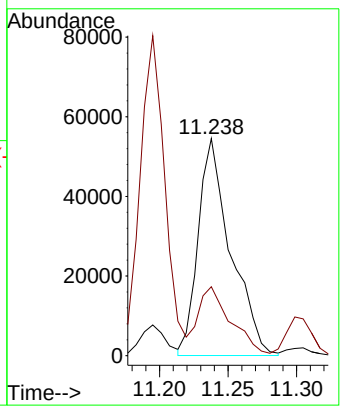


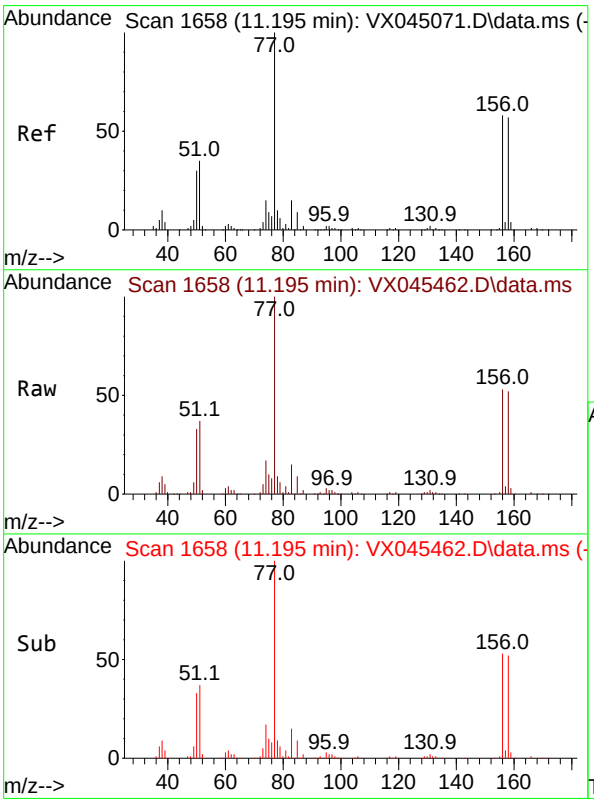
#76
1,2,3-Trichloropropane
Concen: 66.507 ug/l
RT: 11.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 75 Resp: 90126

Ion	Ratio	Lower	Upper
75	100		
77	32.1	20.7	62.1

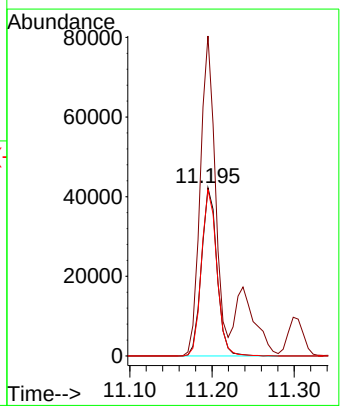


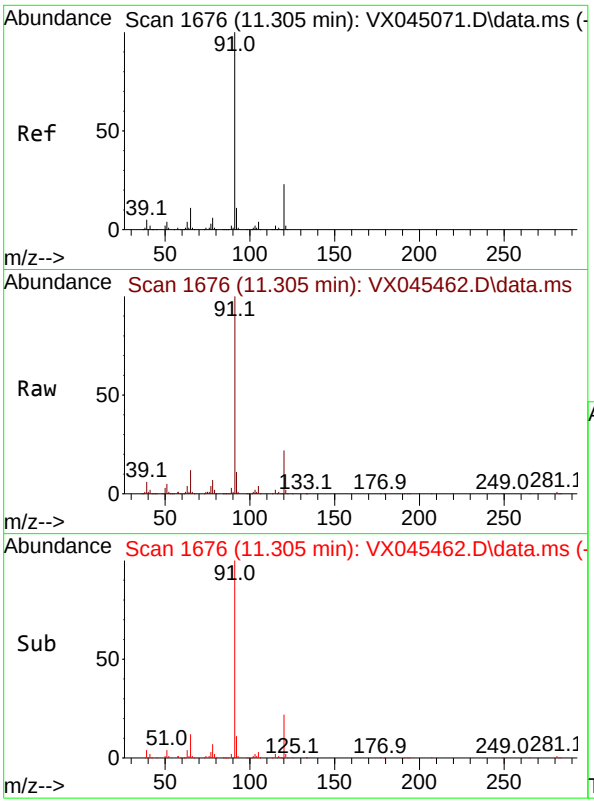


#77
Bromobenzene
Concen: 51.444 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:156 Resp: 55160

Ion	Ratio	Lower	Upper
156	100		
77	184.8	85.8	257.4
158	98.7	48.4	145.2



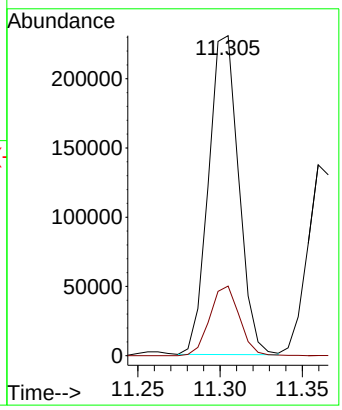


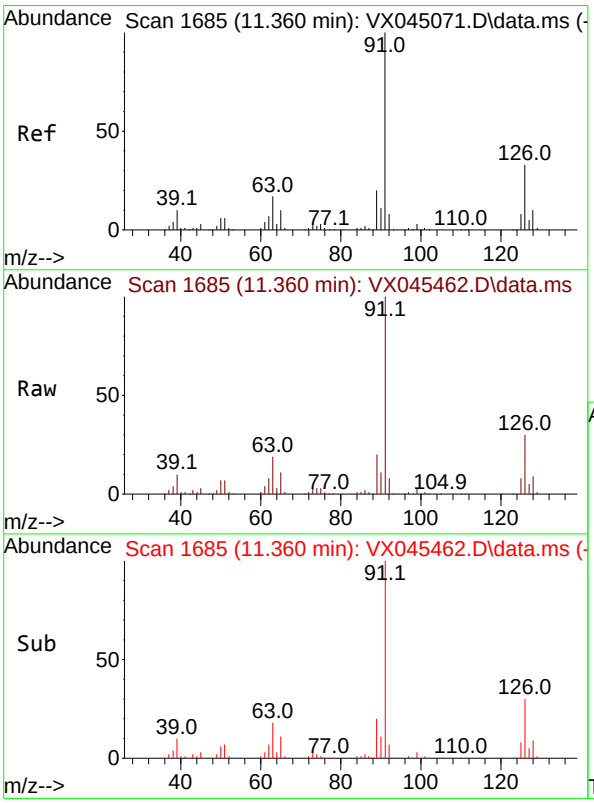
#78
n-propylbenzene
Concen: 57.219 ug/l
RT: 11.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 91 Resp: 293737

Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.2	33.6

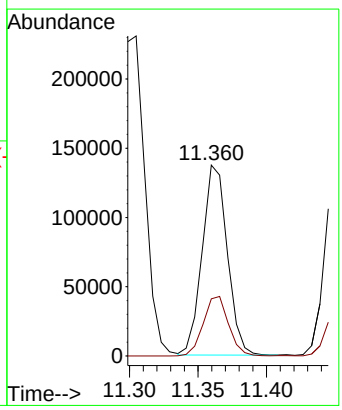


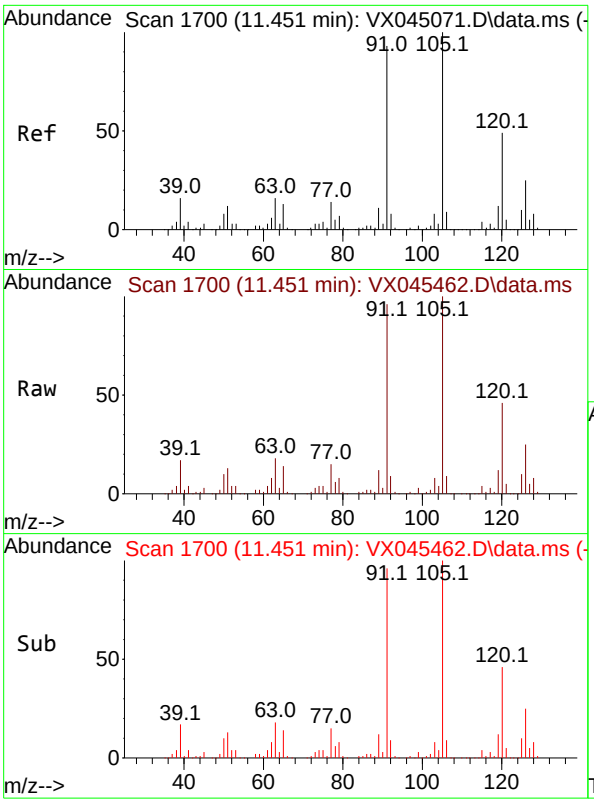


#79
2-Chlorotoluene
Concen: 53.691 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 91 Resp: 175537

Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.4	49.4



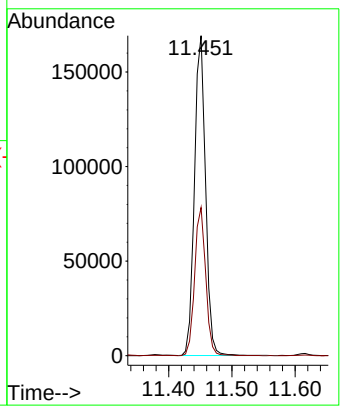


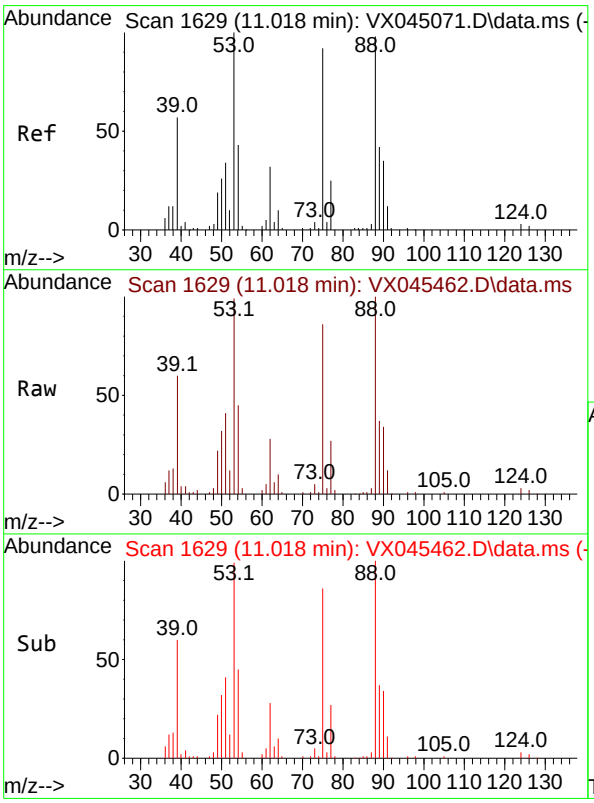
#80
1,3,5-Trimethylbenzene
Concen: 56.177 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:105 Resp: 206424

Ion	Ratio	Lower	Upper
105	100		
120	46.2	24.1	72.2

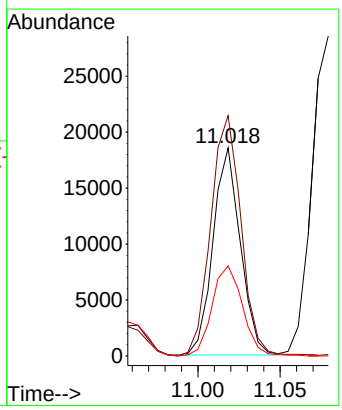


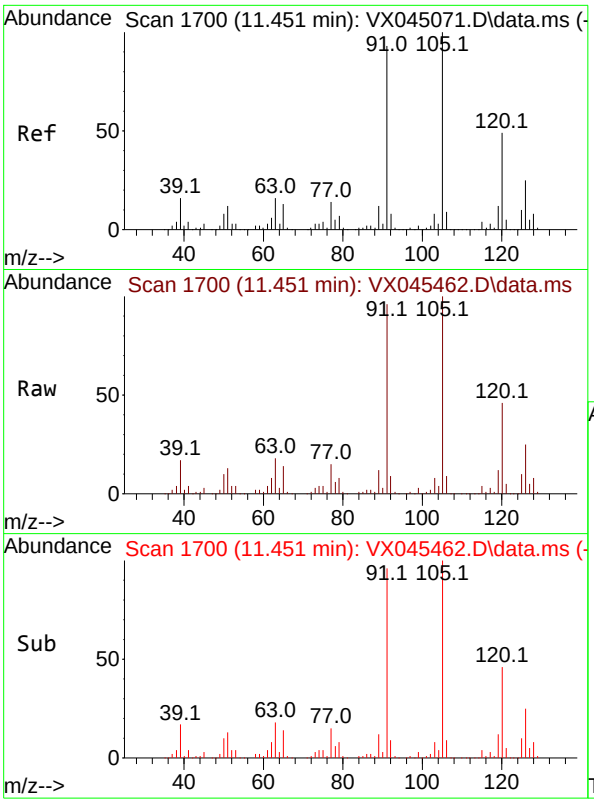


#81
trans-1,4-Dichloro-2-butene
Concen: 54.092 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 75 Resp: 21420

Ion	Ratio	Lower	Upper
75	100		
53	128.6	88.5	132.7
89	48.4	36.2	54.4



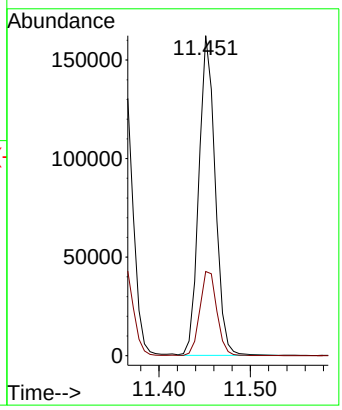


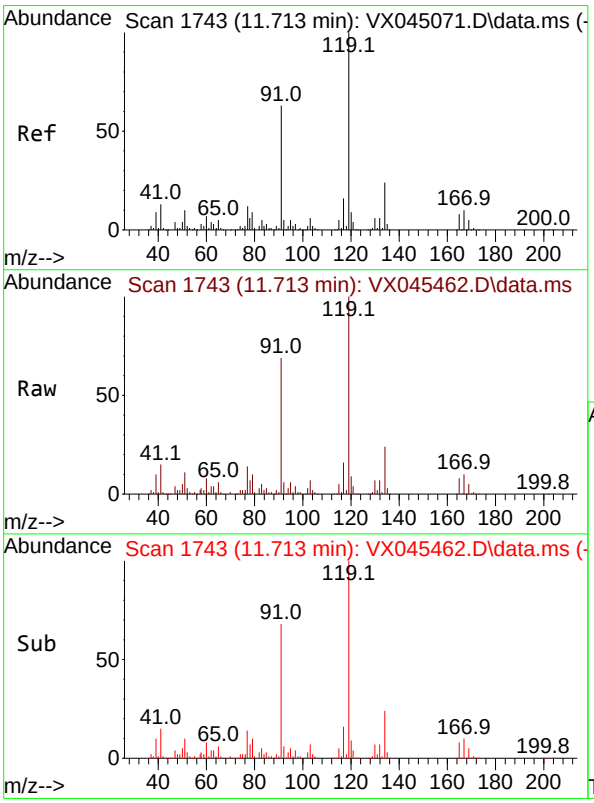
#82
4-Chlorotoluene
Concen: 56.323 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 91 Resp: 200691

Ion	Ratio	Lower	Upper
91	100		
126	27.6	14.1	42.4

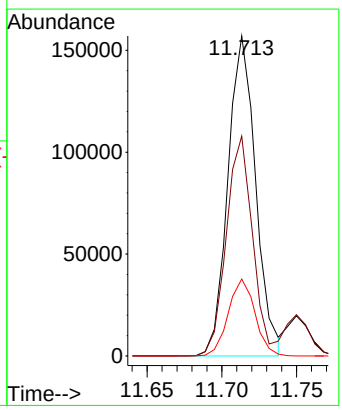


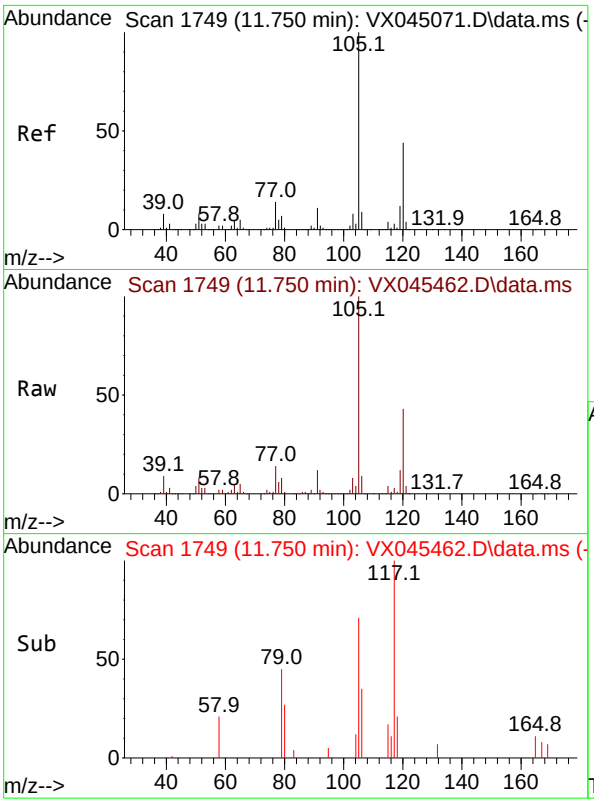


#83
tert-Butylbenzene
Concen: 53.652 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:119 Resp: 202565

Ion	Ratio	Lower	Upper
119	100		
91	65.7	30.7	92.1
134	23.2	11.7	35.0



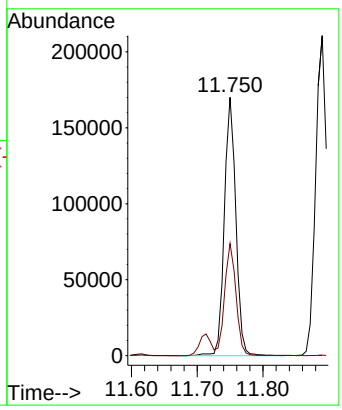


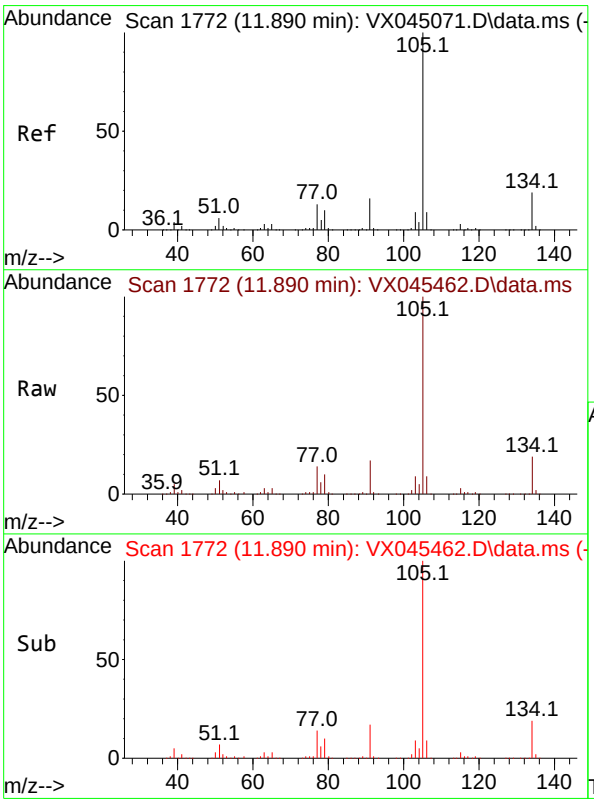
#84
1,2,4-Trimethylbenzene
Concen: 55.934 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:105 Resp: 206804

Ion	Ratio	Lower	Upper
105	100		
120	43.2	22.1	66.1

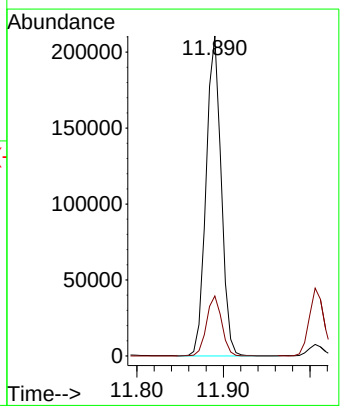


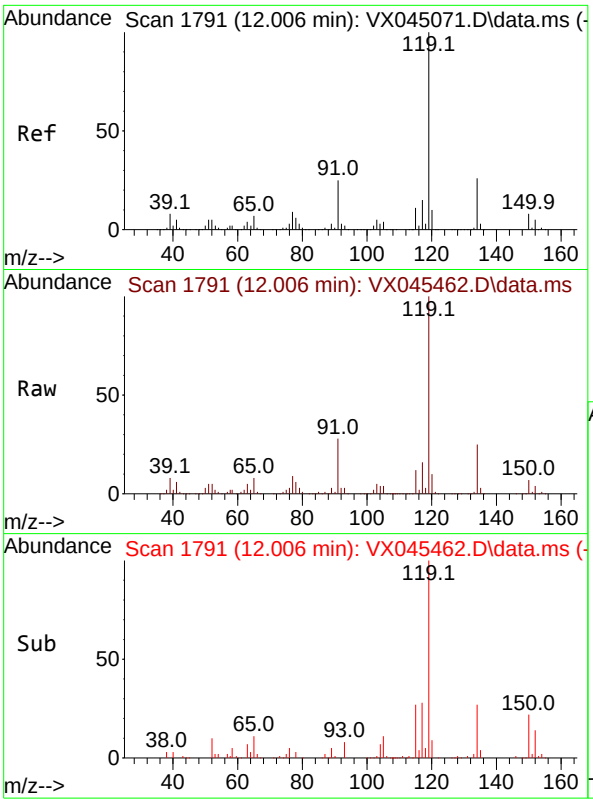


#85
sec-Butylbenzene
Concen: 56.298 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:105 Resp: 254610

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.8	29.4



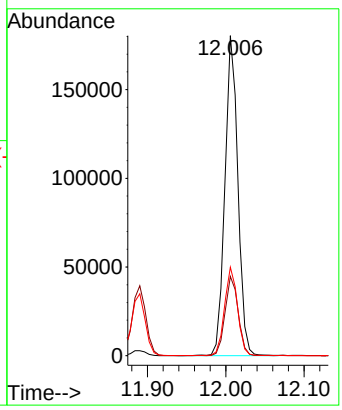


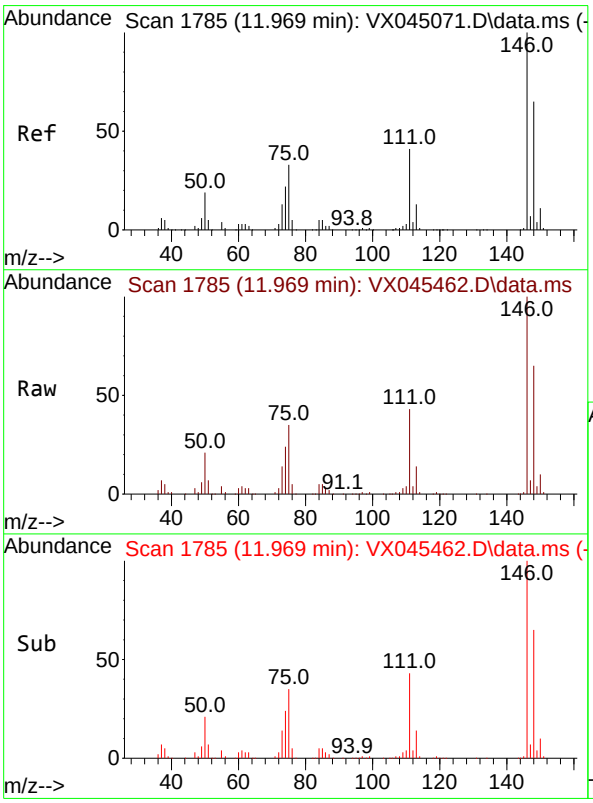
#86
p-Isopropyltoluene
Concen: 56.955 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:119 Resp: 208162

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.9	38.6
91	27.5	12.7	38.0

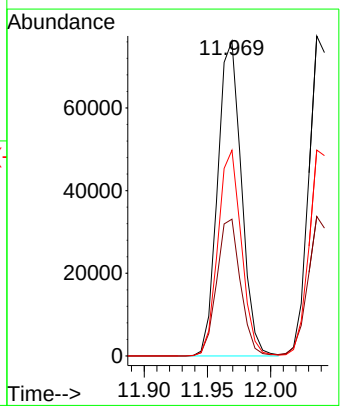


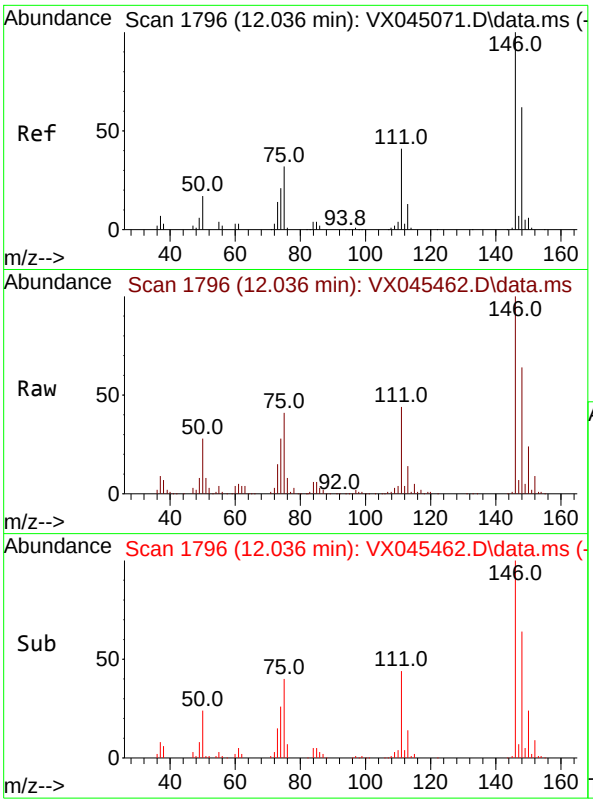


#87
1,3-Dichlorobenzene
Concen: 52.049 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:146 Resp: 99559

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.1	63.4
148	64.5	31.9	95.7



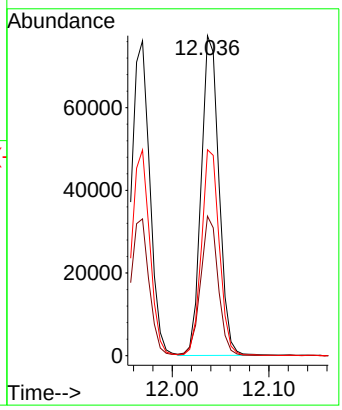


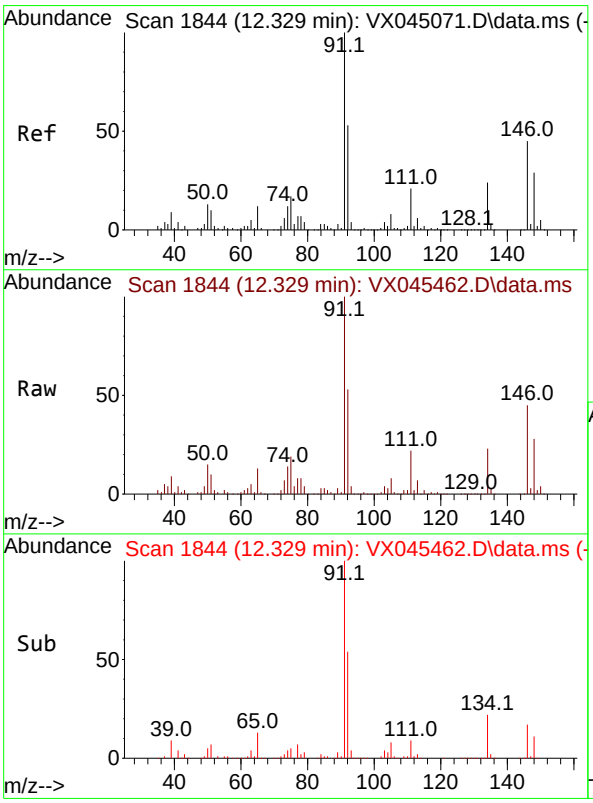
#88
1,4-Dichlorobenzene
Concen: 51.163 ug/l
RT: 12.036 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:146 Resp: 99011

Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.2	60.5
148	64.9	31.9	95.9

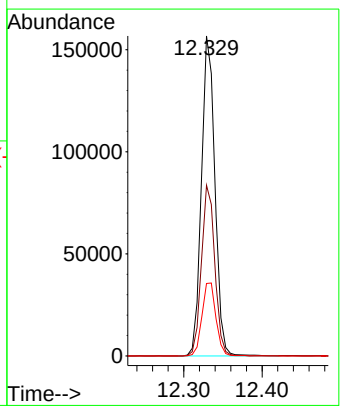


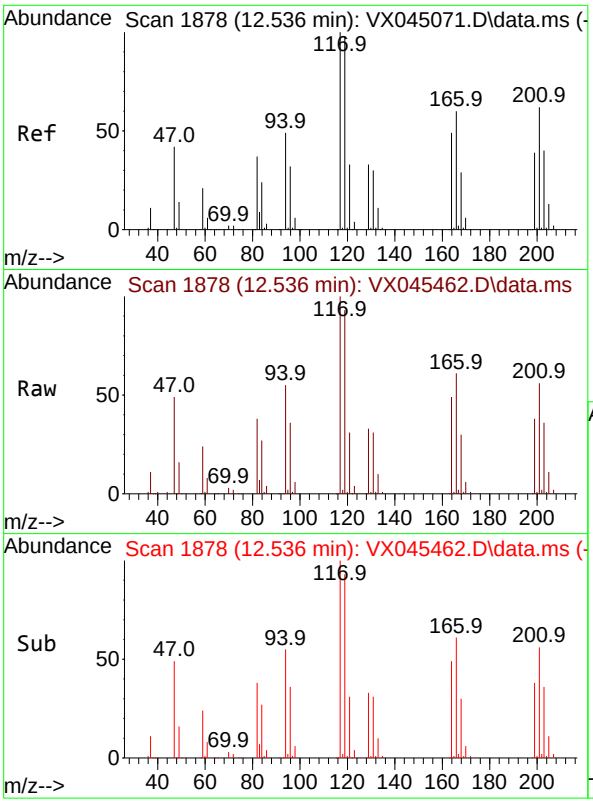


#89
n-Butylbenzene
Concen: 59.401 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion: 91 Resp: 186985

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.7	80.0
134	23.7	12.2	36.6



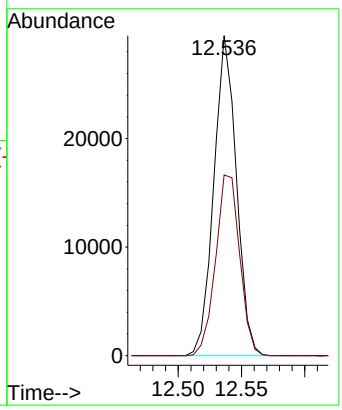


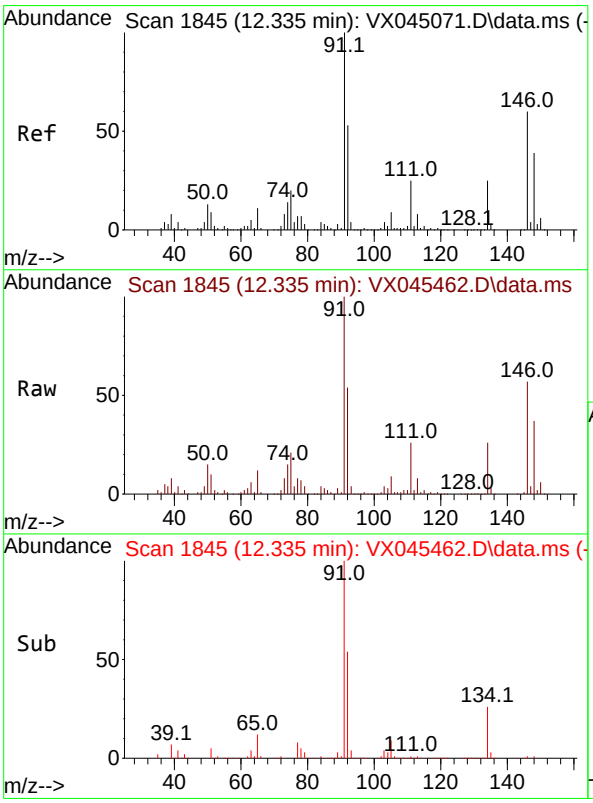
#90
Hexachloroethane
Concen: 55.214 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:117 Resp: 36501

Ion	Ratio	Lower	Upper
117	100		
201	60.4	31.9	95.9

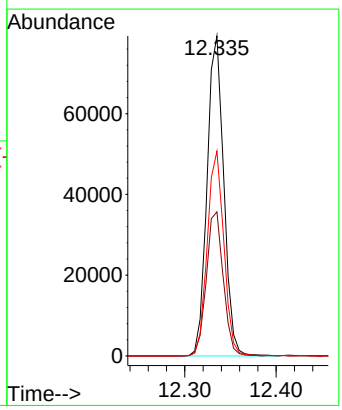


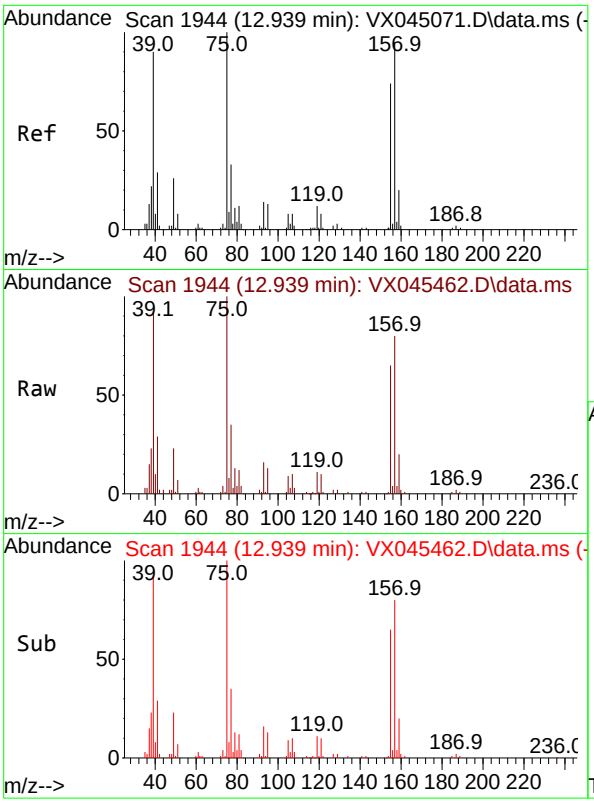


#91
1,2-Dichlorobenzene
Concen: 52.215 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:146 Resp: 100191

Ion	Ratio	Lower	Upper
146	100		
111	45.7	21.6	65.0
148	63.7	31.9	95.9



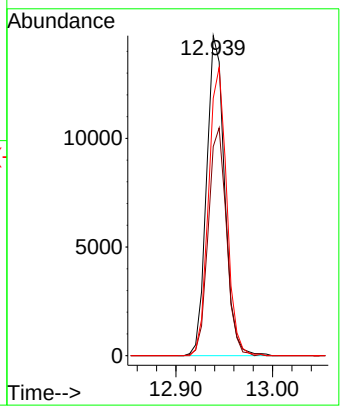


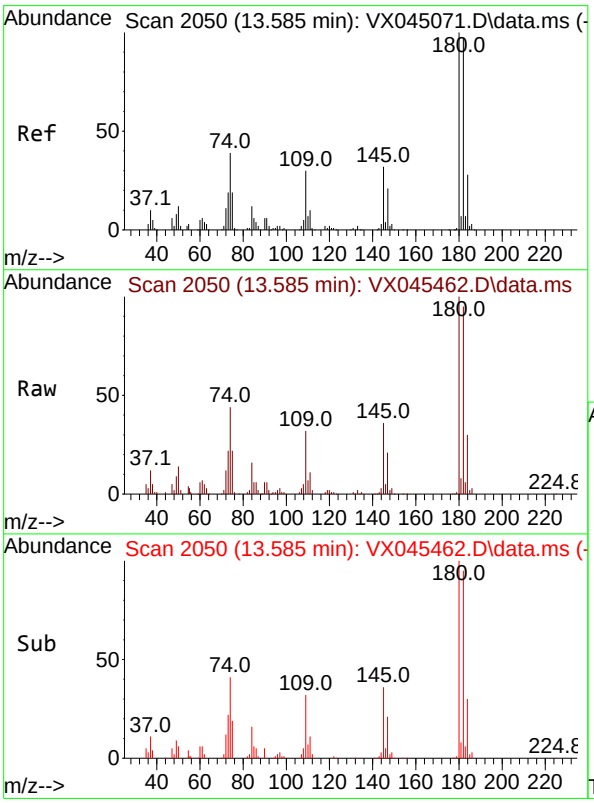
#92
1,2-Dibromo-3-Chloropropane
Concen: 58.851 ug/l
RT: 12.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion: 75 Resp: 19120

Ion	Ratio	Lower	Upper
75	100		
155	71.8	39.6	118.7
157	90.7	51.1	153.4

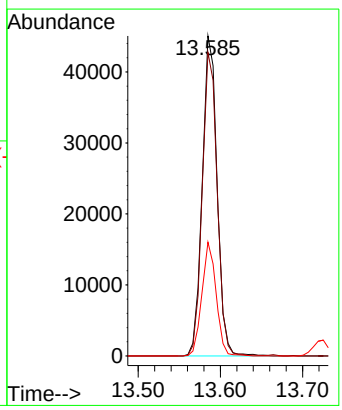


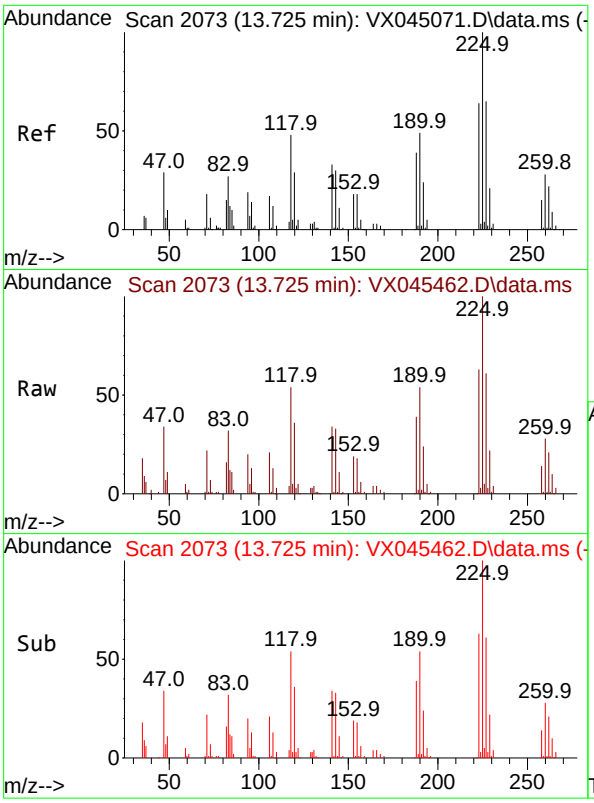


#93
1,2,4-Trichlorobenzene
Concen: 51.723 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:180 Resp: 56512

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.9
145	34.2	16.3	48.9



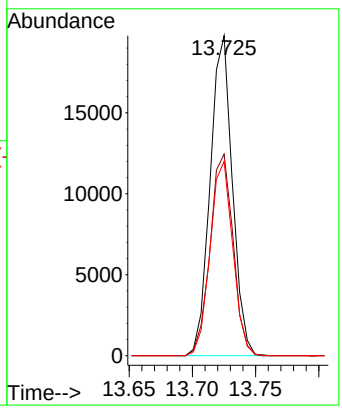


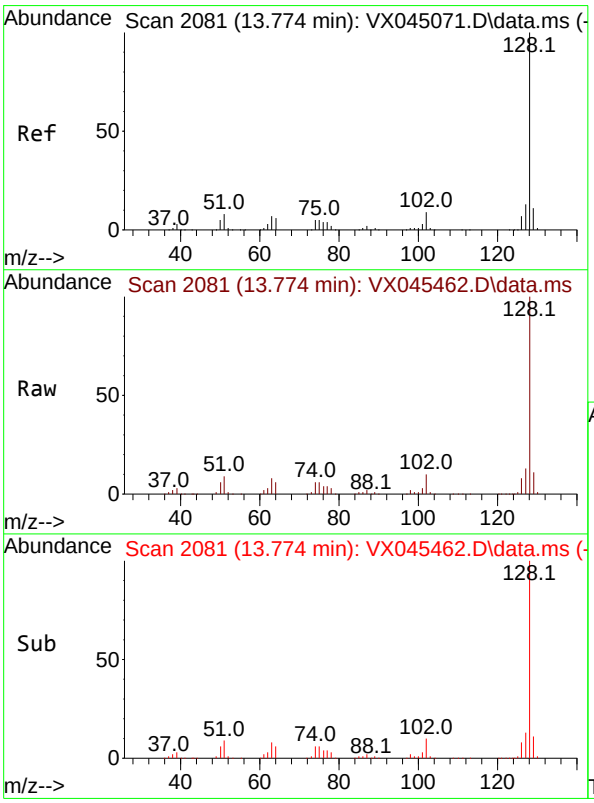
#94
Hexachlorobutadiene
Concen: 53.744 ug/l
RT: 13.725 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:225 Resp: 24074

Ion	Ratio	Lower	Upper
225	100		
223	65.4	31.9	95.7
227	62.1	31.4	94.0

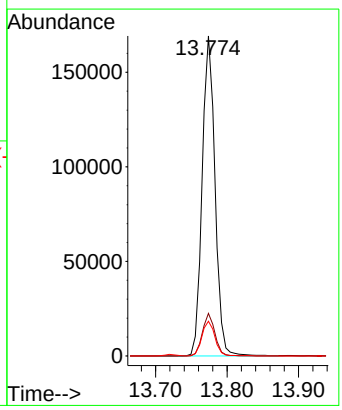


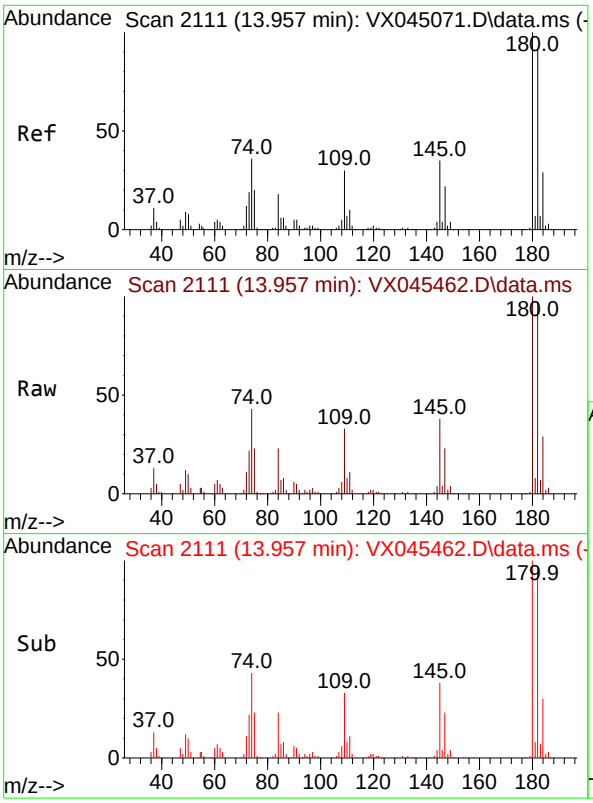


#95
Naphthalene
Concen: 50.432 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Tgt Ion:128 Resp: 211704

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.0	8.7	13.1



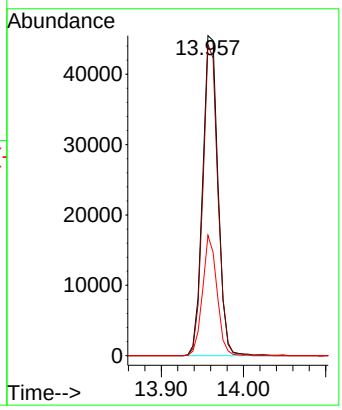


#96
1,2,3-Trichlorobenzene
Concen: 51.264 ug/l
RT: 13.957 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045462.D
Acq: 26 Mar 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MS

Tgt Ion:180 Resp: 59088

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.5	142.6
145	35.3	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	81226	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	143287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	127464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56894	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	54130	41.896	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 83.800%			
35) Dibromofluoromethane	5.379	113	38393	40.071	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 80.140%			
50) Toluene-d8	8.647	98	132471	38.137	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 76.280%#			
62) 4-Bromofluorobenzene	11.079	95	48948	42.526	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	62827	61.448	ug/l	95
3) Chloromethane	1.307	50	60998	48.750	ug/l	97
4) Vinyl Chloride	1.374	62	59665	48.068	ug/l	98
5) Bromomethane	1.593	94	27026	55.386	ug/l	99
6) Chloroethane	1.666	64	32429	56.641	ug/l	96
7) Trichlorofluoromethane	1.874	101	87276	53.113	ug/l	98
8) Diethyl Ether	2.130	74	30049	46.753	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	55084	58.349	ug/l	98
10) Methyl Iodide	2.441	142	67143	56.912	ug/l	94
11) Tert butyl alcohol	2.977	59	54896	224.313	ug/l	96
12) 1,1-Dichloroethene	2.306	96	52797	52.898	ug/l	94
13) Acrolein	2.233	56	74311	262.676	ug/l	98
14) Allyl chloride	2.654	41	100846	56.762	ug/l	94
15) Acrylonitrile	3.062	53	170809	260.418	ug/l	98
16) Acetone	2.386	43	156176	260.529	ug/l	98
17) Carbon Disulfide	2.502	76	132938	50.007	ug/l	99
18) Methyl Acetate	2.703	43	71374	49.493	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	179806	53.696	ug/l	97
20) Methylene Chloride	2.782	84	60050	50.570	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	52377	53.118	ug/l	97
22) Diisopropyl ether	3.764	45	191865	53.100	ug/l	95
23) Vinyl Acetate	3.721	43	878011	291.184	ug/l	100
24) 1,1-Dichloroethane	3.605	63	106777	52.729	ug/l	99
25) 2-Butanone	4.556	43	247432	274.214	ug/l	98
26) 2,2-Dichloropropane	4.471	77	78783	82.944	ug/l	94
27) cis-1,2-Dichloroethene	4.483	96	64385	52.894	ug/l	92
28) Bromochloromethane	4.891	49	46754	48.439	ug/l	99
29) Tetrahydrofuran	5.001	42	157525	259.959	ug/l	99
30) Chloroform	5.086	83	110878	55.106	ug/l	98
31) Cyclohexane	5.464	56	96443	54.865	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	93611	57.604	ug/l	98
36) 1,1-Dichloropropene	5.684	75	74229	56.492	ug/l	99
37) Ethyl Acetate	4.715	43	93308	55.110	ug/l	99
38) Carbon Tetrachloride	5.672	117	78280	58.681	ug/l	99
39) Methylcyclohexane	7.373	83	94425	59.974	ug/l	96
40) Benzene	6.031	78	221537	53.392	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	52151	56.964	ug/l		97
42) 1,2-Dichloroethane	6.080	62	90728	60.723	ug/l		97
43) Isopropyl Acetate	6.342	43	145230	58.007	ug/l		98
44) Trichloroethene	7.123	130	52602	53.991	ug/l		99
45) 1,2-Dichloropropane	7.427	63	57716	54.102	ug/l		98
46) Dibromomethane	7.580	93	42651	56.564	ug/l		97
47) Bromodichloromethane	7.818	83	85122	57.553	ug/l		97
48) Methyl methacrylate	7.690	41	75898	60.425	ug/l		93
49) 1,4-Dioxane	7.659	88	26355	994.704	ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	489781	291.351	ug/l		99
52) Toluene	8.714	92	135507	55.663	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	76527	61.892	ug/l		94
54) cis-1,3-Dichloropropene	8.366	75	85476	59.283	ug/l	#	88
55) 1,1,2-Trichloroethane	9.147	97	54644	54.524	ug/l		96
56) Ethyl methacrylate	9.116	69	90492	59.401	ug/l		92
57) 1,3-Dichloropropane	9.305	76	95623	55.134	ug/l		100
59) 2-Hexanone	9.427	43	363249	298.233	ug/l		98
60) Dibromochloromethane	9.519	129	61294	58.493	ug/l		100
61) 1,2-Dibromoethane	9.610	107	56774	56.746	ug/l		97
64) Tetrachloroethene	9.269	164	43684	53.511	ug/l		99
65) Chlorobenzene	10.079	112	146418	54.287	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	49813	55.459	ug/l		97
67) Ethyl Benzene	10.189	91	265098	56.409	ug/l		100
68) m/p-Xylenes	10.299	106	195632	113.714	ug/l		96
69) o-Xylene	10.640	106	94658	54.554	ug/l		94
70) Styrene	10.653	104	160517	57.174	ug/l		97
71) Bromoform	10.799	173	38315	56.569	ug/l	#	98
73) Isopropylbenzene	10.957	105	251806	56.703	ug/l		100
74) N-amyl acetate	10.842	43	122662	58.866	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	86905	53.329	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	93085	70.295	ug/l		85
77) Bromobenzene	11.195	156	55610	53.075	ug/l		94
78) n-propylbenzene	11.299	91	297497	59.305	ug/l		98
79) 2-Chlorotoluene	11.360	91	178326	55.818	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	207078	57.671	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	22458	58.039	ug/l		87
82) 4-Chlorotoluene	11.451	91	201866	57.976	ug/l		98
83) tert-Butylbenzene	11.713	119	206216	55.895	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	207721	57.494	ug/l		97
85) sec-Butylbenzene	11.890	105	254806	57.657	ug/l		99
86) p-Isopropyltoluene	12.006	119	210975	59.073	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	100092	53.550	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	101089	53.457	ug/l		98
89) n-Butylbenzene	12.329	91	185757	60.389	ug/l		99
90) Hexachloroethane	12.536	117	36360	56.286	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	99842	53.249	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19261	60.670	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	57572	53.924	ug/l		99
94) Hexachlorobutadiene	13.725	225	24099	55.056	ug/l		99
95) Naphthalene	13.774	128	215982	52.653	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	59286	52.637	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

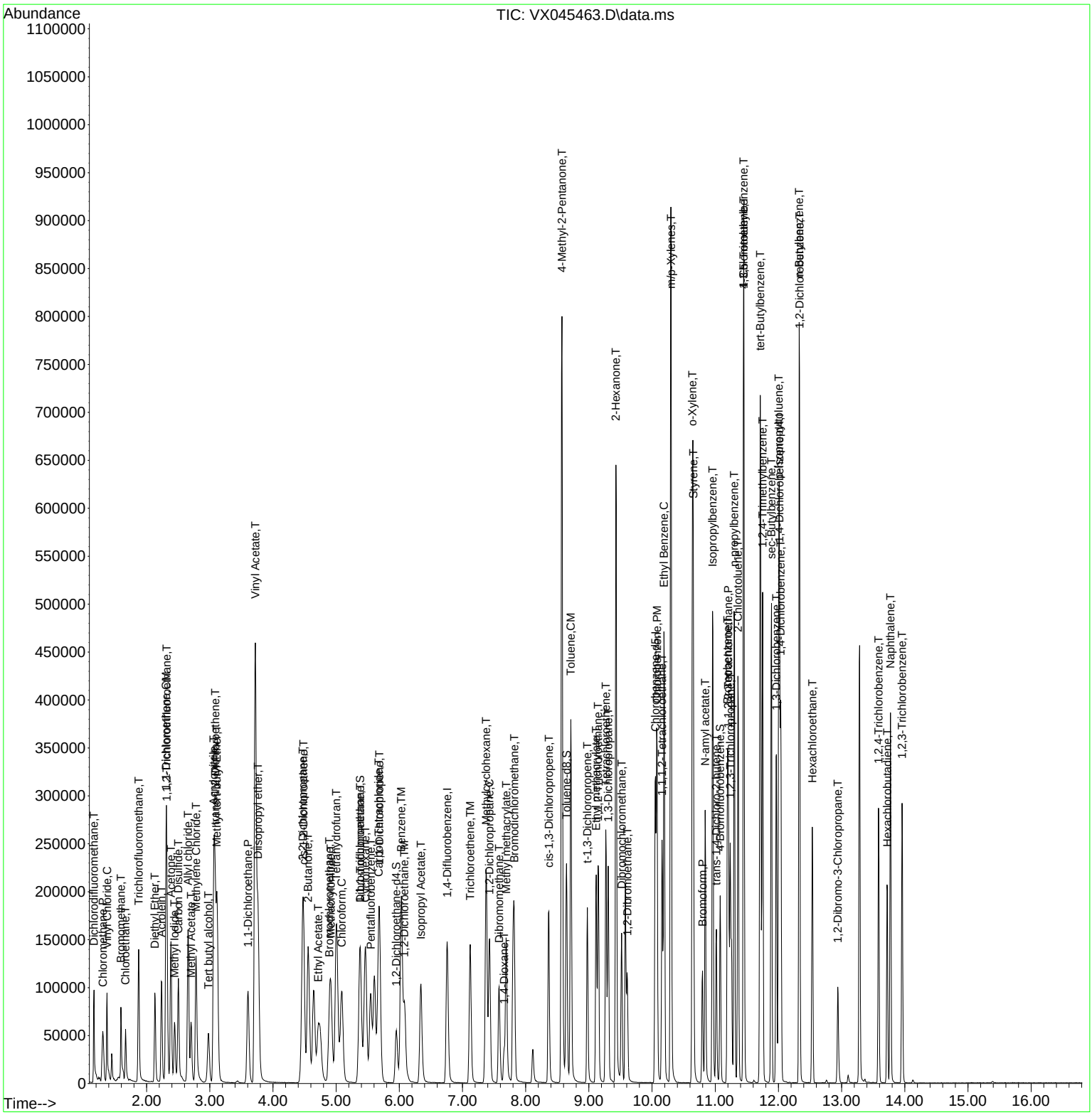
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

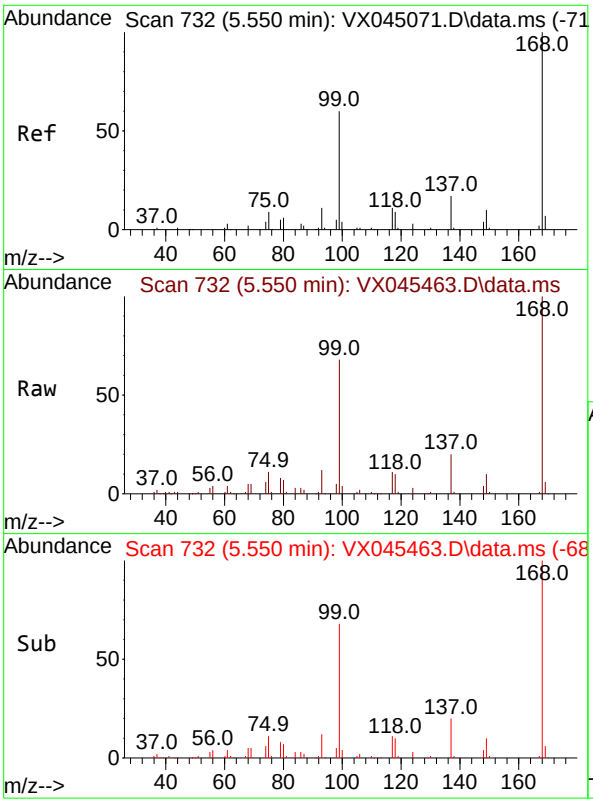
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045463.D
Acq On : 26 Mar 2025 12:33
Operator : JC/MD
Sample : Q1629-16MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Quant Time: Mar 27 01:36:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



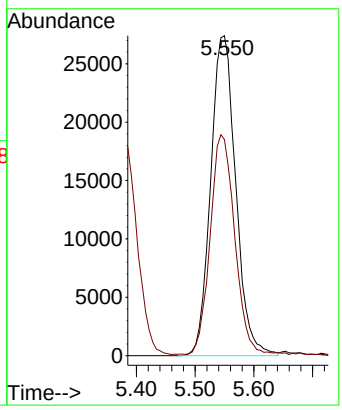


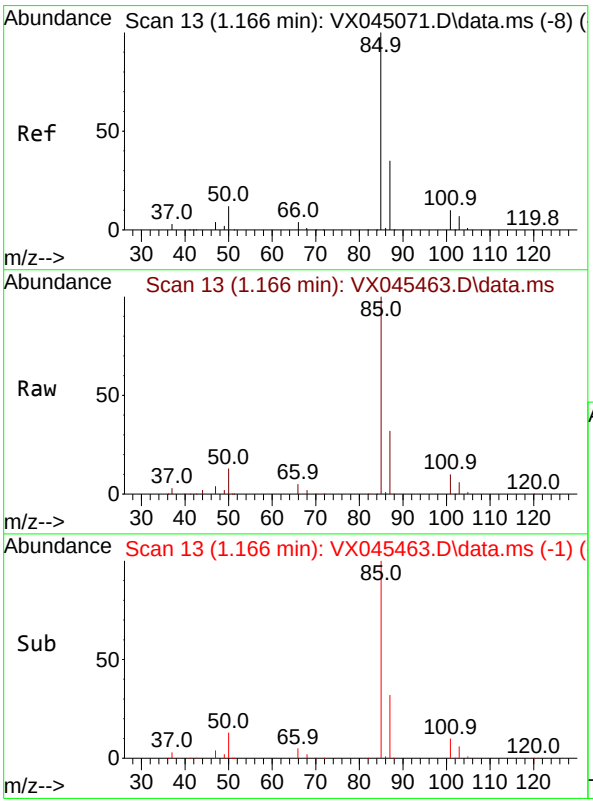
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:168 Resp: 81226

Ion	Ratio	Lower	Upper
168	100		
99	67.1	48.2	72.4

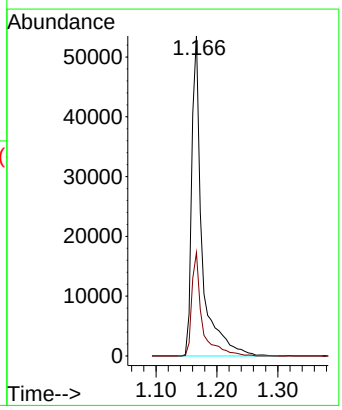


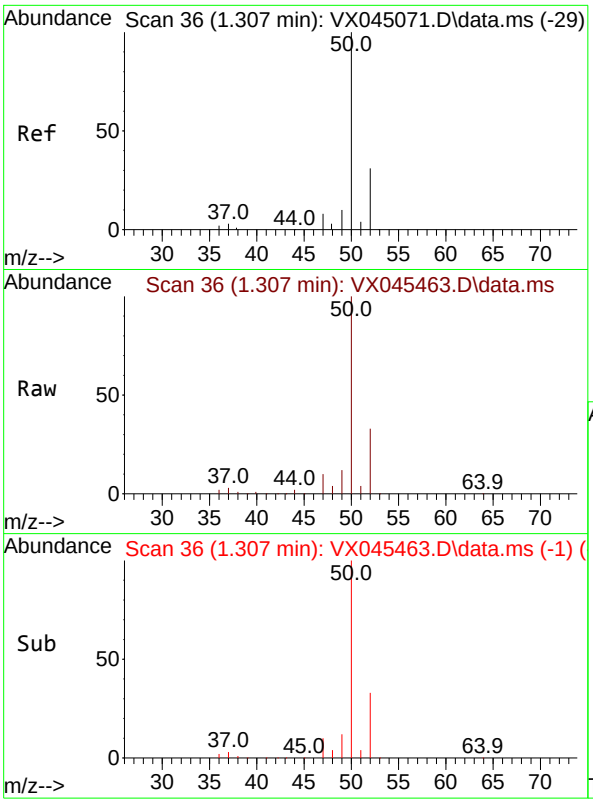


#2
Dichlorodifluoromethane
Concen: 61.448 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 85 Resp: 62827

Ion	Ratio	Lower	Upper
85	100		
87	32.3	17.4	52.3



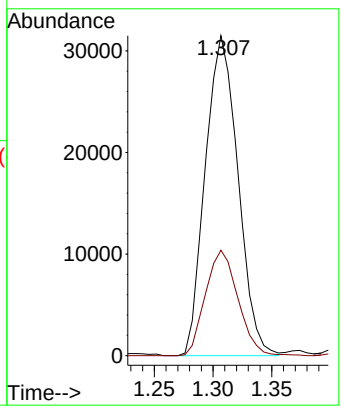


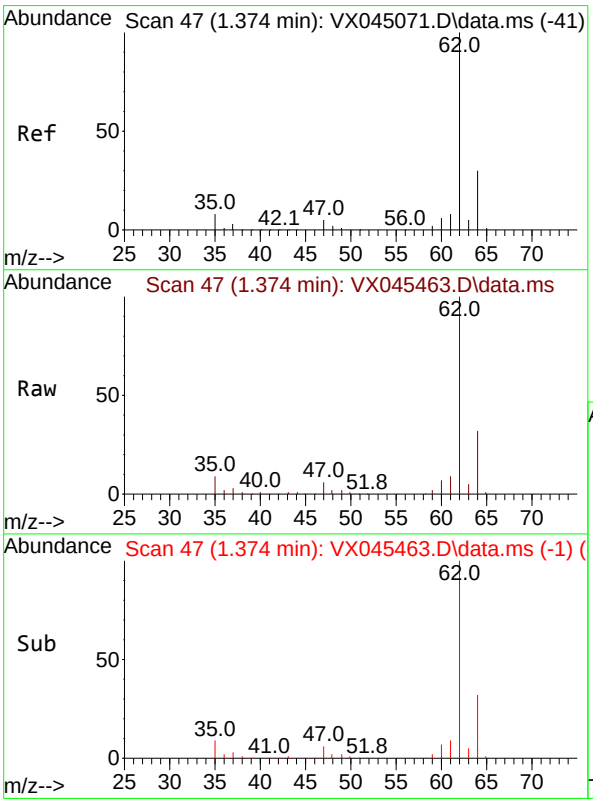
#3
Chloromethane
Concen: 48.750 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 50 Resp: 60998

Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.0	37.4

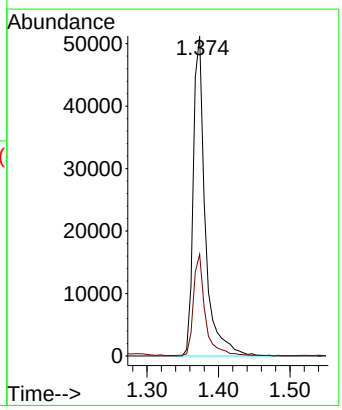


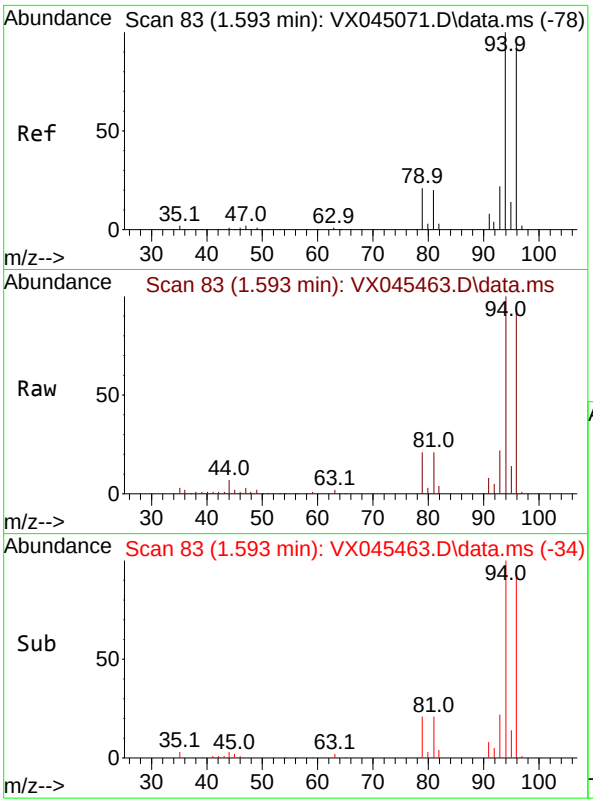


#4
Vinyl Chloride
Concen: 48.068 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 62 Resp: 59665

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.3	36.5



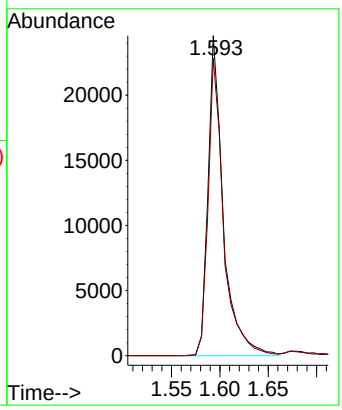


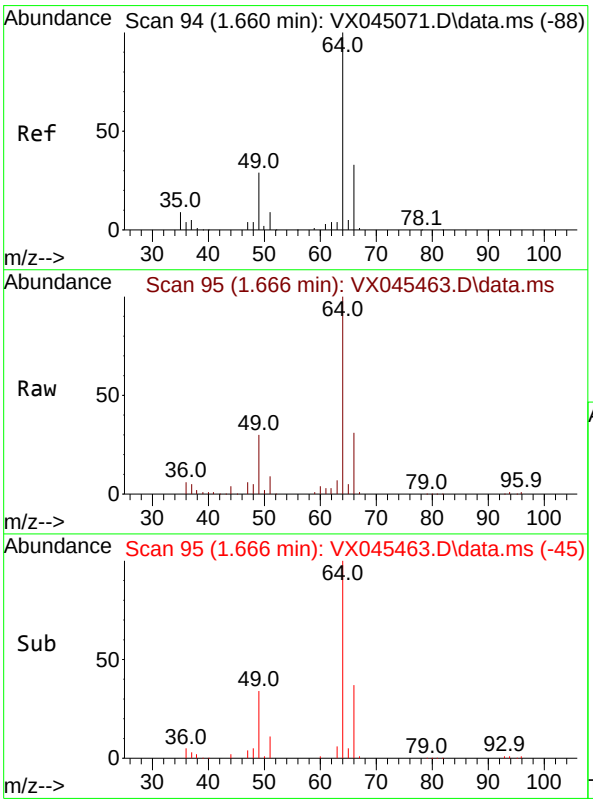
#5
Bromomethane
Concen: 55.386 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 94 Resp: 27026

Ion	Ratio	Lower	Upper
94	100		
96	93.0	75.0	112.4

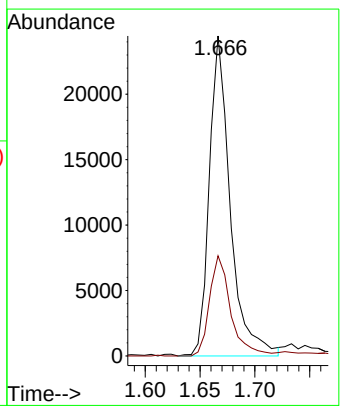


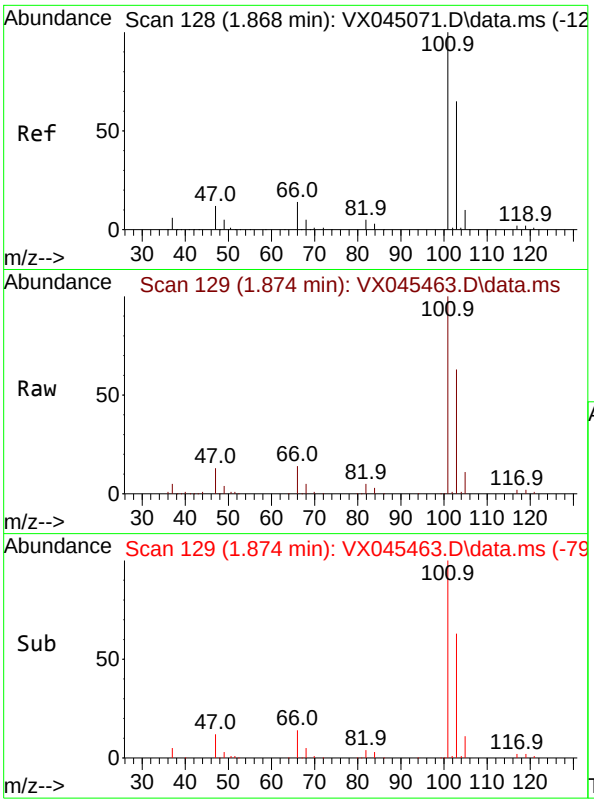


#6
Chloroethane
Concen: 56.641 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 64 Resp: 32429

Ion	Ratio	Lower	Upper
64	100		
66	31.3	26.7	40.1



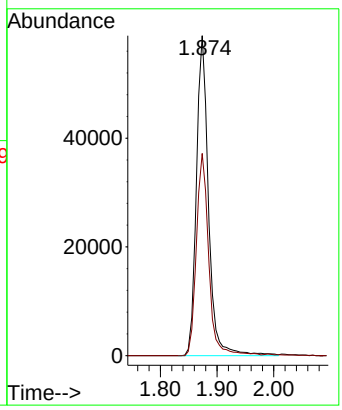


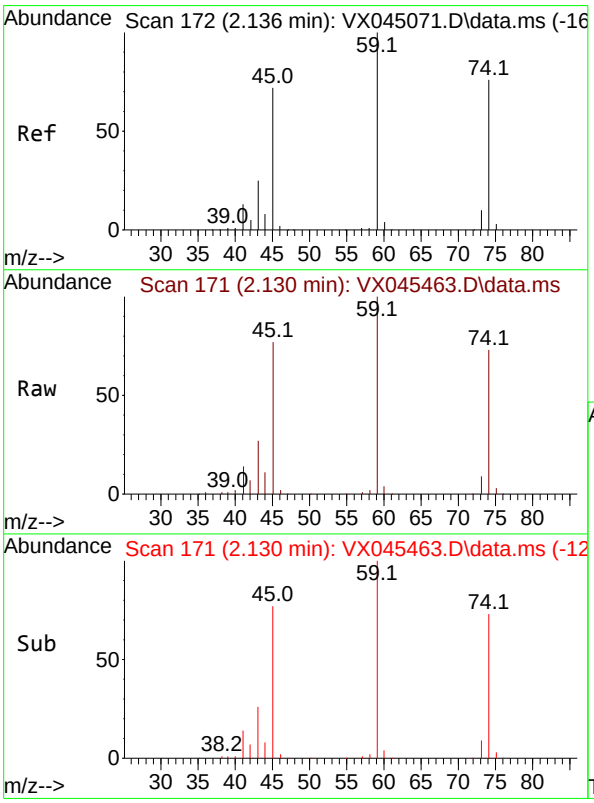
#7
Trichlorofluoromethane
Concen: 53.113 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:101 Resp: 87276

Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.1	78.1

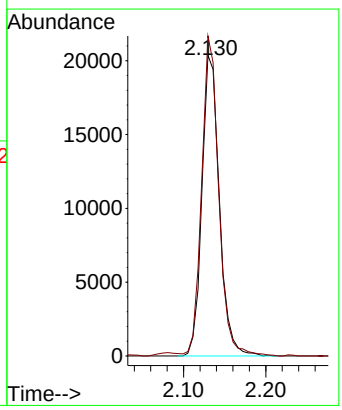


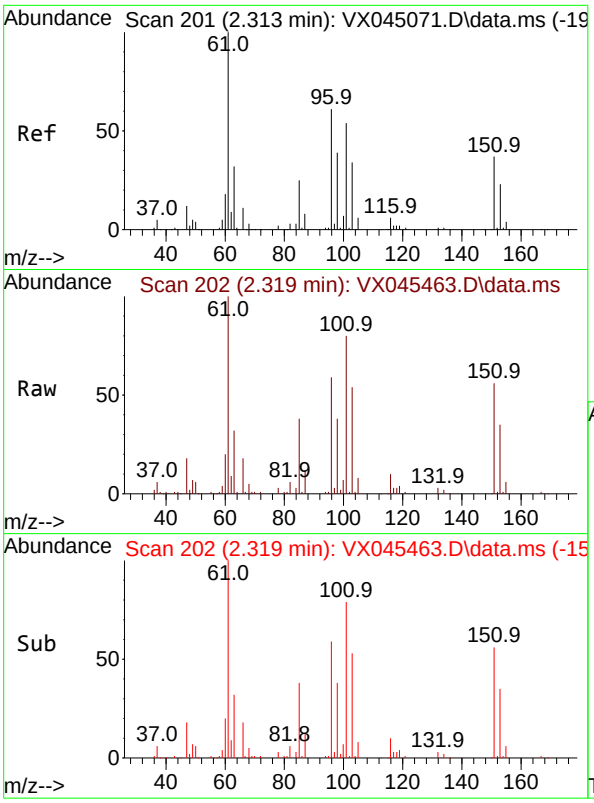


#8
Diethyl Ether
Concen: 46.753 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 74 Resp: 30049

Ion	Ratio	Lower	Upper
74	100		
45	104.1	51.5	154.5



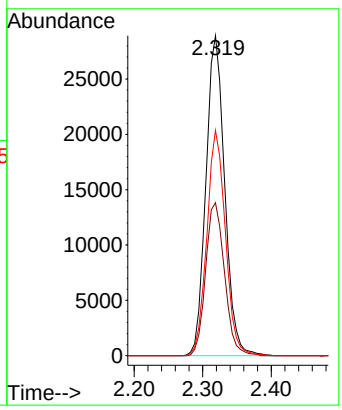


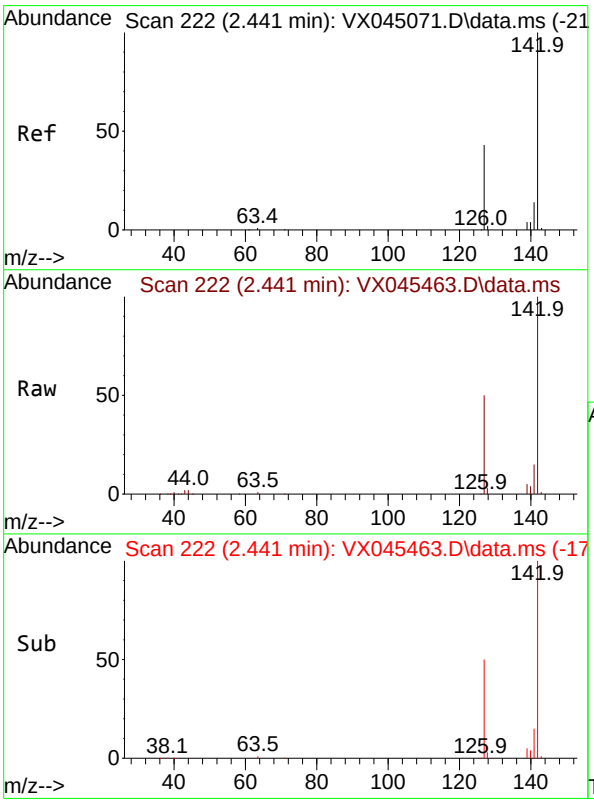
#9
1,1,2-Trichlorotrifluoroethane
Concen: 58.349 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:101 Resp: 55084

Ion	Ratio	Lower	Upper
101	100		
85	48.1	36.2	54.4
151	69.6	56.4	84.6

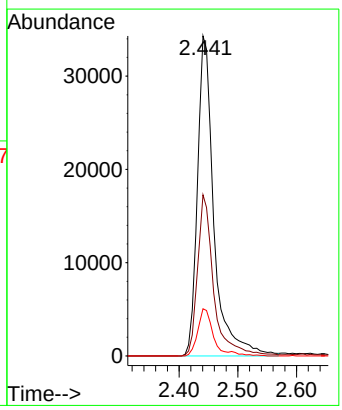


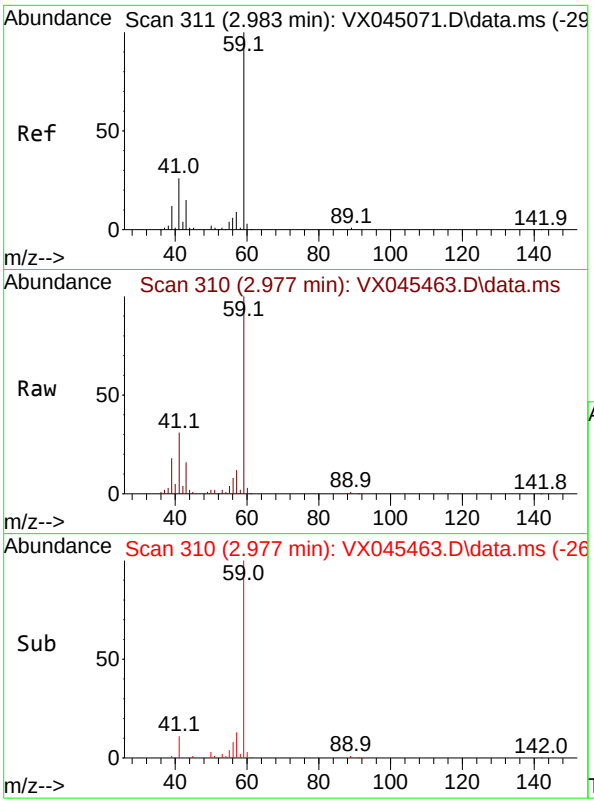


#10
Methyl Iodide
Concen: 56.912 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:142 Resp: 67143

Ion	Ratio	Lower	Upper
142	100		
127	49.5	35.4	53.2
141	14.2	11.6	17.4



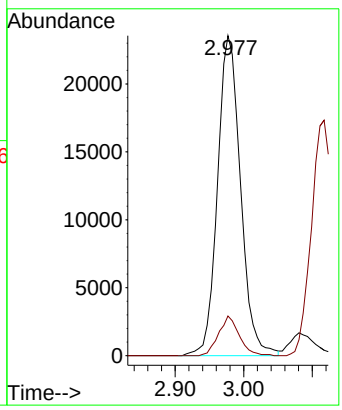


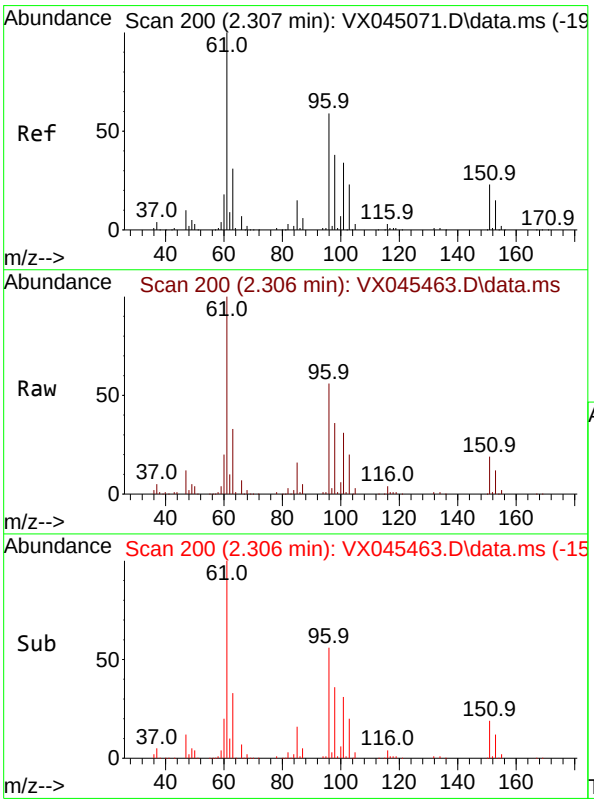
#11
Tert butyl alcohol
Concen: 224.313 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 59 Resp: 54896

Ion	Ratio	Lower	Upper
59	100		
57	11.1	7.8	11.8

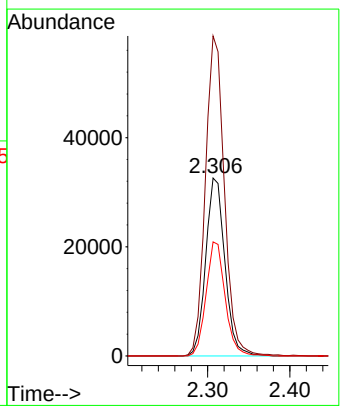


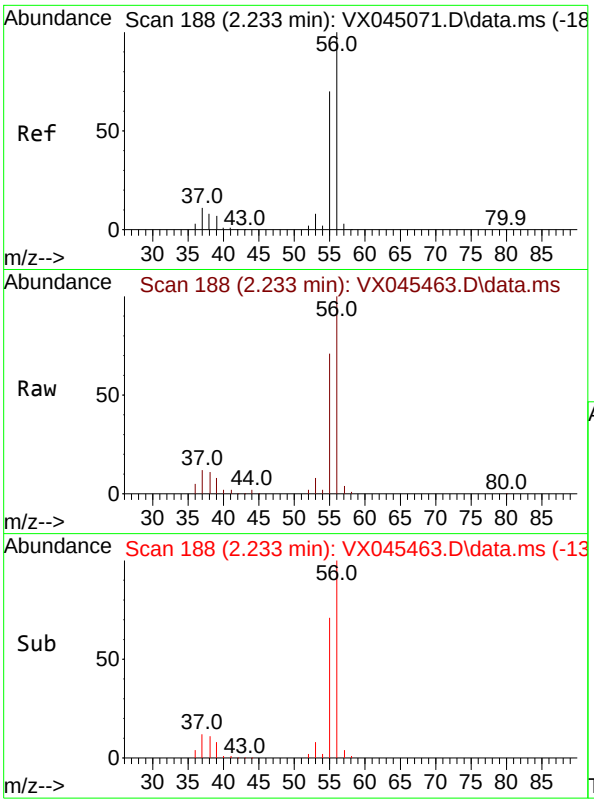


#12
1,1-Dichloroethene
Concen: 52.898 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 96 Resp: 52797

Ion	Ratio	Lower	Upper
96	100		
61	179.8	134.6	202.0
98	64.1	51.0	76.6



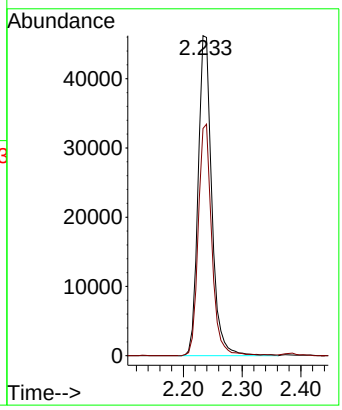


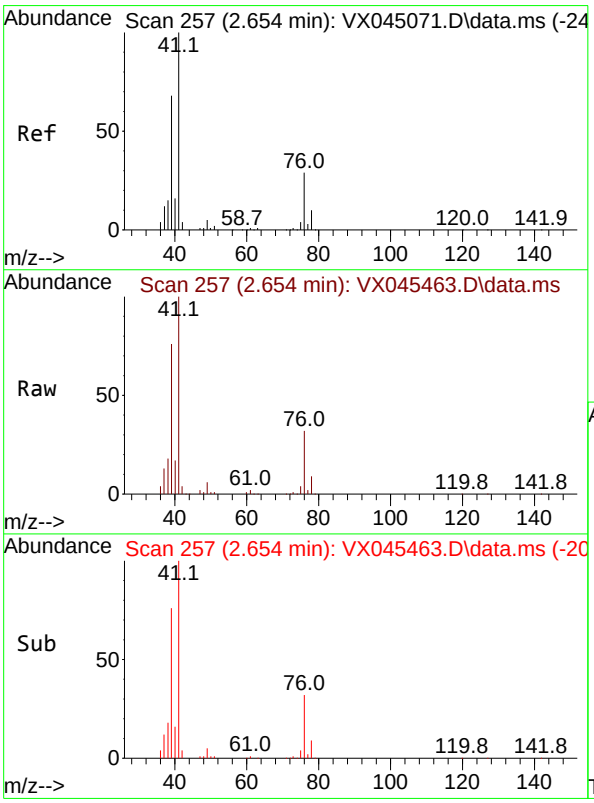
#13
Acrolein
Concen: 262.676 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 56 Resp: 74311

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4

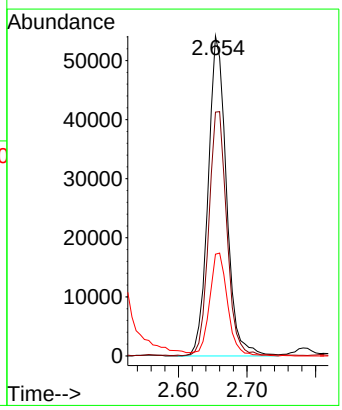


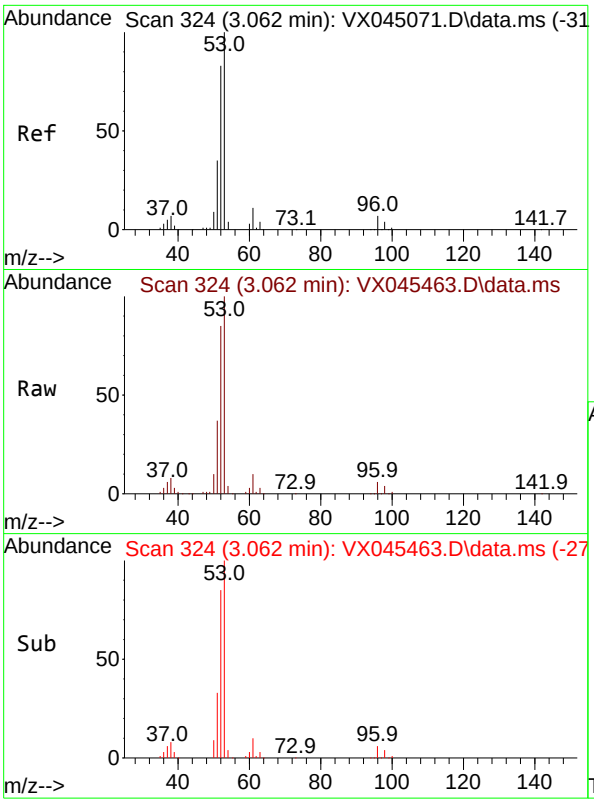


#14
Allyl chloride
Concen: 56.762 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 41 Resp: 100846

Ion	Ratio	Lower	Upper
41	100		
39	74.7	53.8	80.8
76	31.7	25.2	37.8



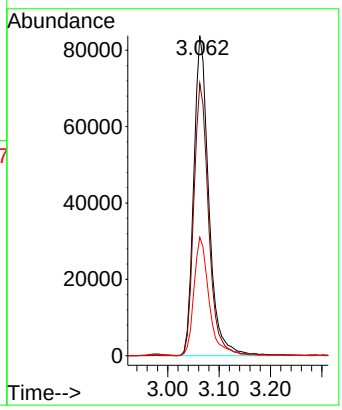


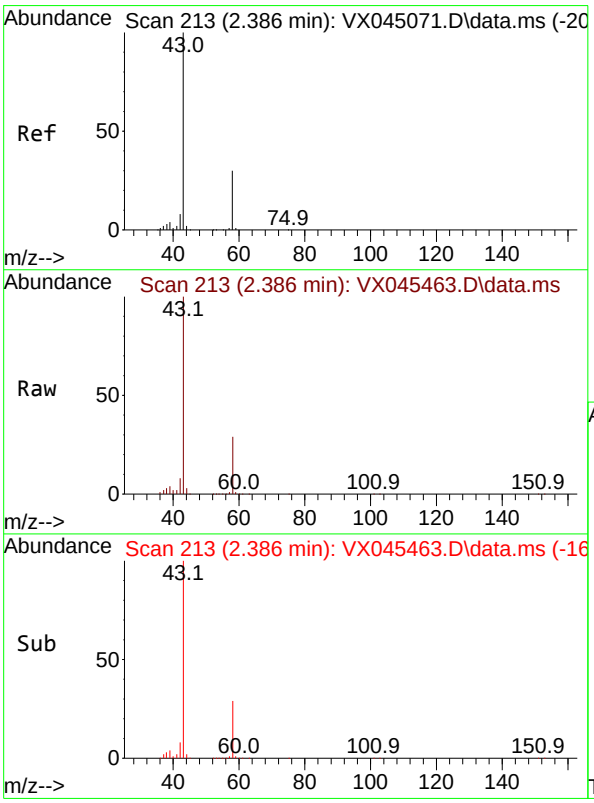
#15
Acrylonitrile
Concen: 260.418 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 53 Resp: 170809

Ion	Ratio	Lower	Upper
53	100		
52	84.2	66.2	99.2
51	37.1	29.0	43.4

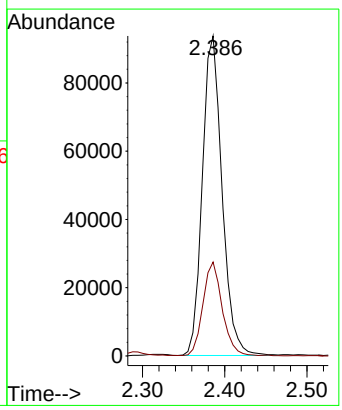


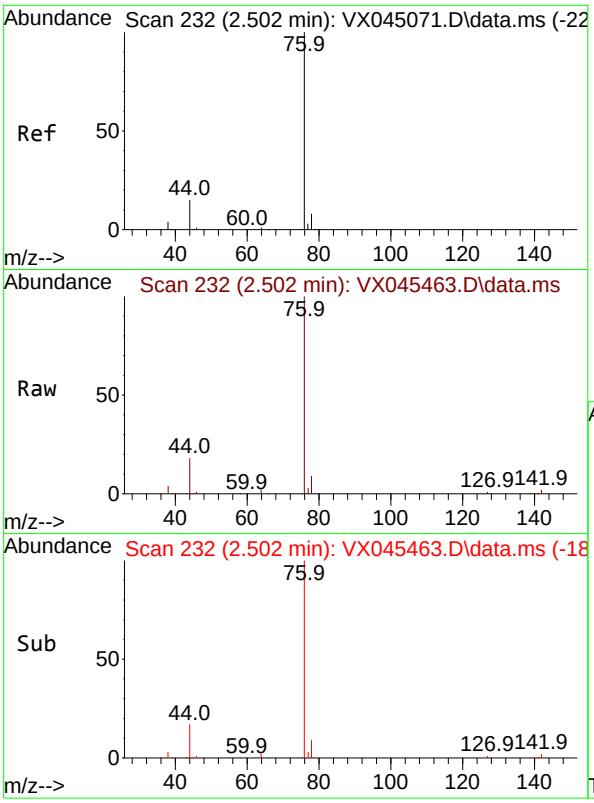


#16
Acetone
Concen: 260.529 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 156176

Ion	Ratio	Lower	Upper
43	100		
58	29.3	24.2	36.4



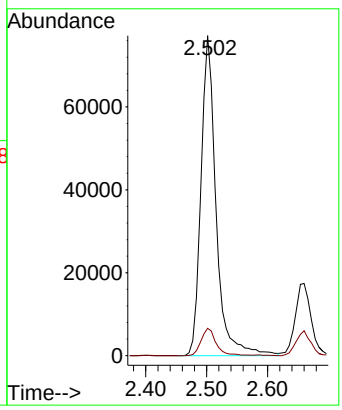


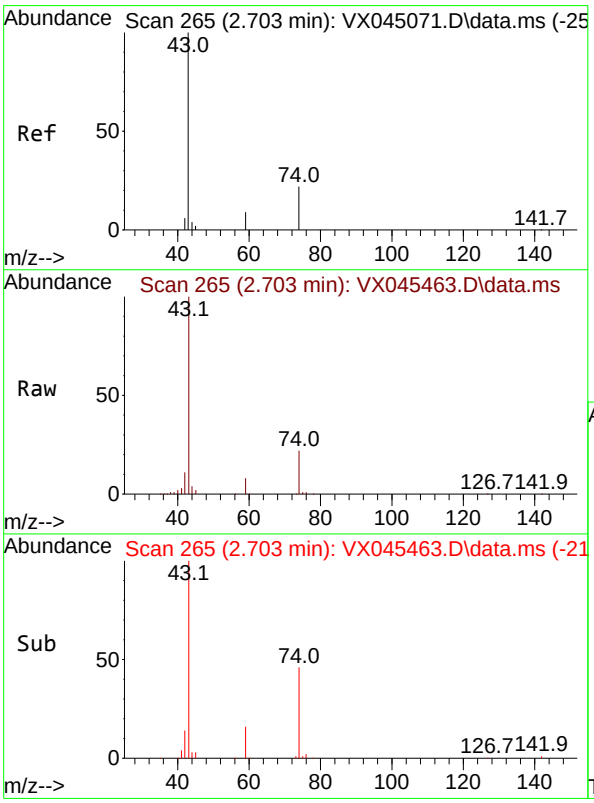
#17
Carbon Disulfide
Concen: 50.007 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 76 Resp: 132938

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.6	9.8

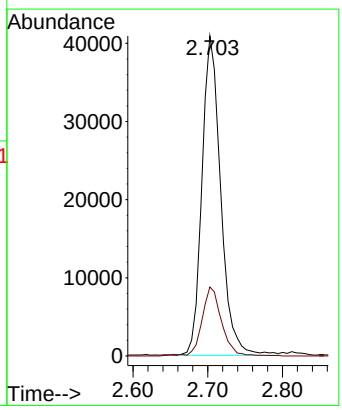


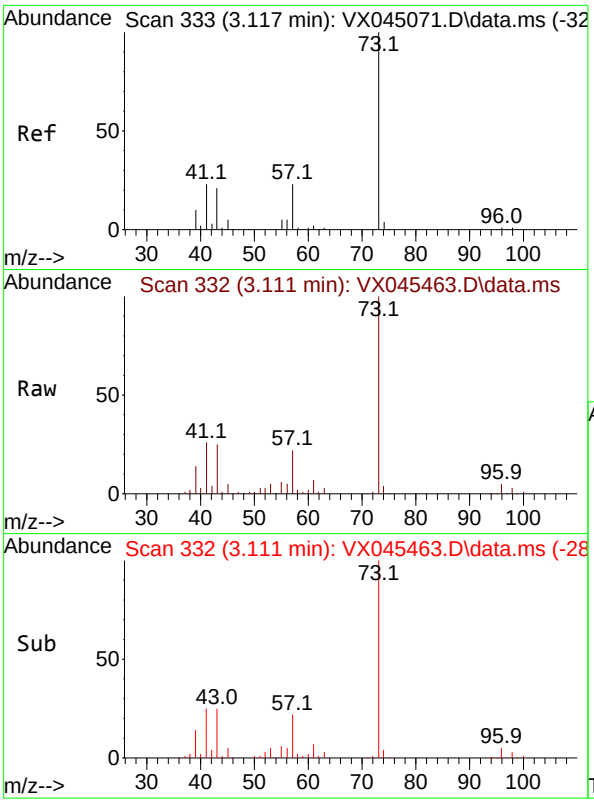


#18
Methyl Acetate
Concen: 49.493 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 71374

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2



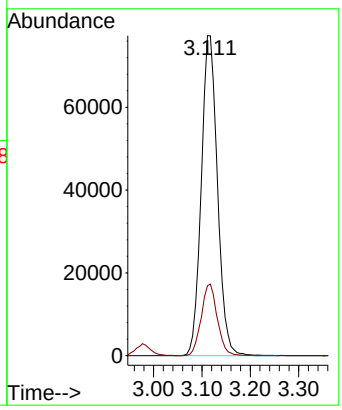


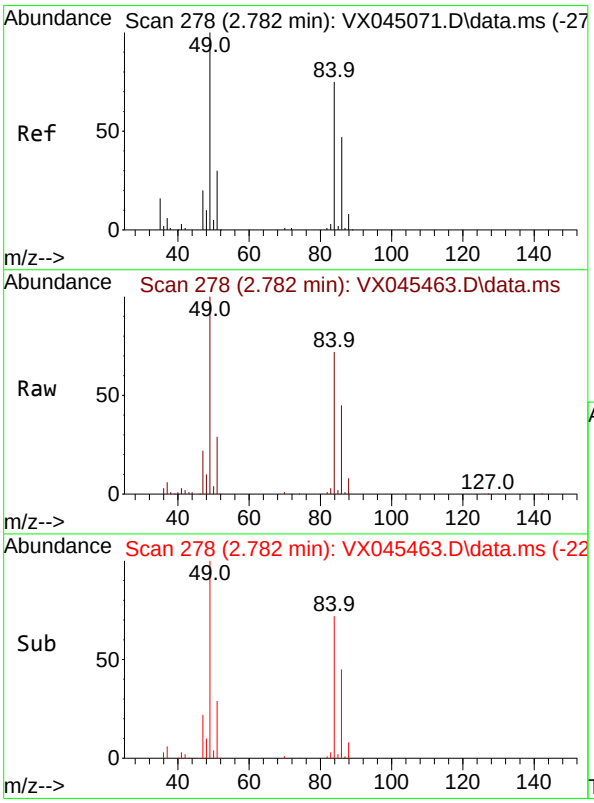
#19
Methyl tert-butyl Ether
Concen: 53.696 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 73 Resp: 179806

Ion	Ratio	Lower	Upper
73	100		
57	21.9	18.5	27.7

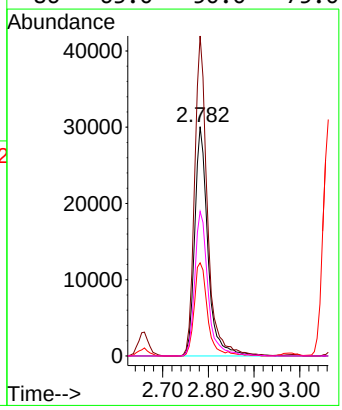


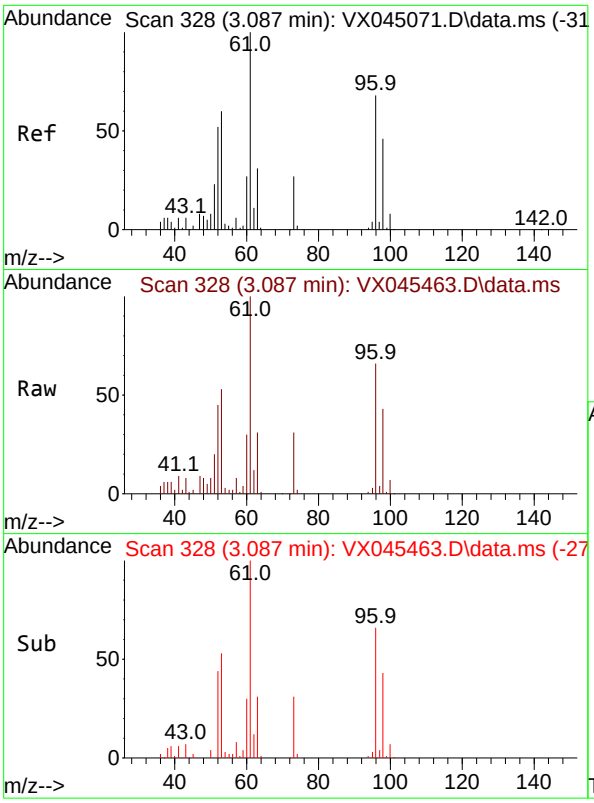


#20
Methylene Chloride
Concen: 50.570 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 84 Resp: 60050

Ion	Ratio	Lower	Upper
84	100		
49	139.5	106.5	159.7
51	40.6	32.1	48.1
86	63.0	50.0	75.0



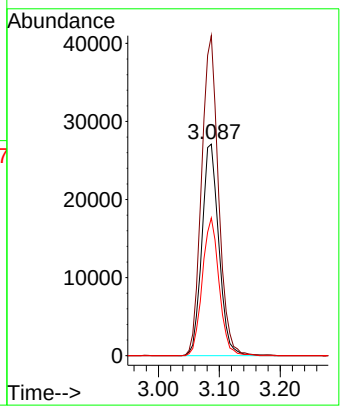


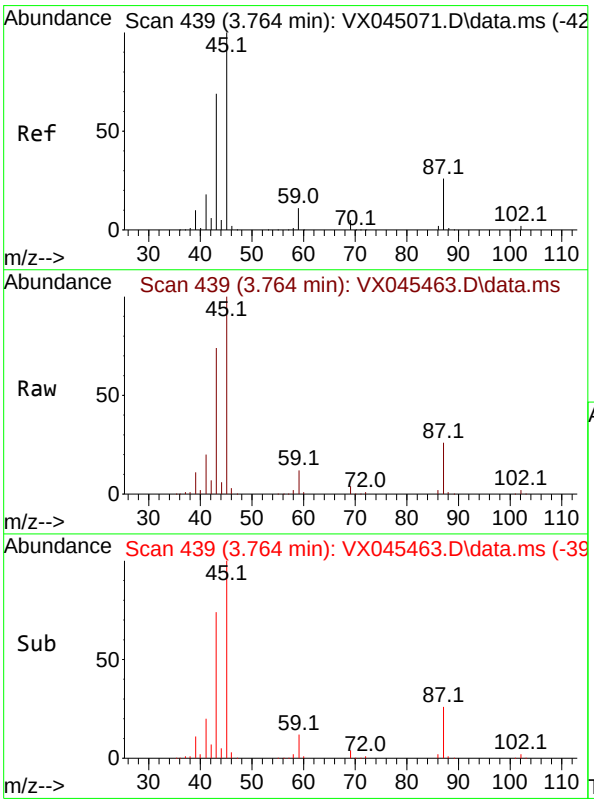
#21
trans-1,2-Dichloroethene
Concen: 53.118 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 96 Resp: 52377

Ion	Ratio	Lower	Upper
96	100		
61	151.2	117.0	175.4
98	65.1	53.4	80.2

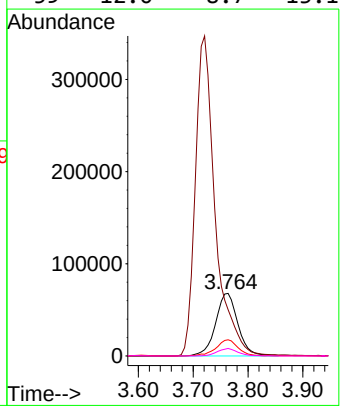


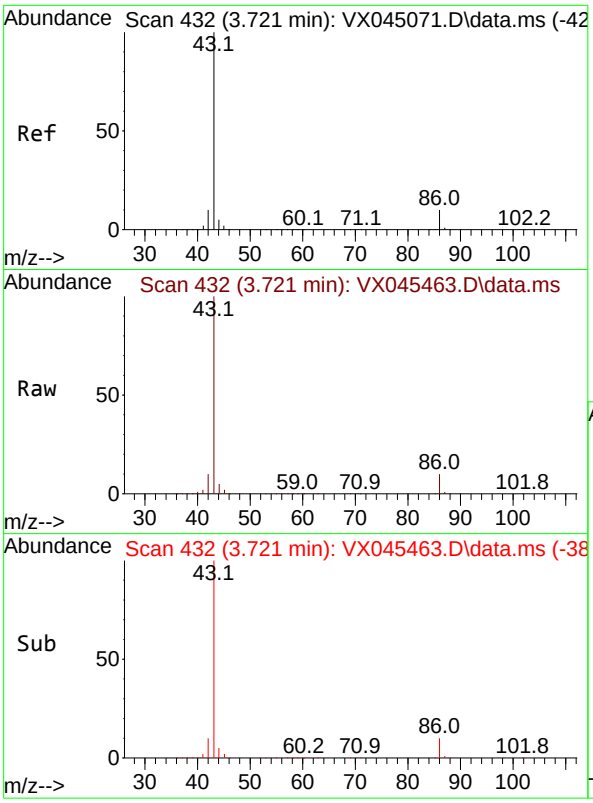


#22
Diisopropyl ether
Concen: 53.100 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 45 Resp: 191865

Ion	Ratio	Lower	Upper
45	100		
43	73.8	54.9	82.3
87	25.7	21.0	31.4
59	12.0	8.7	13.1



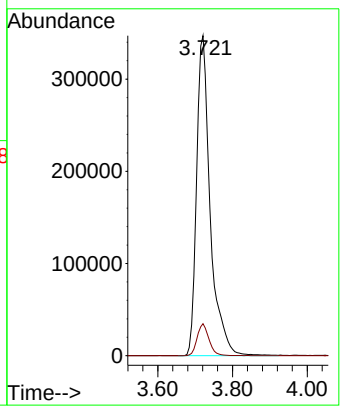


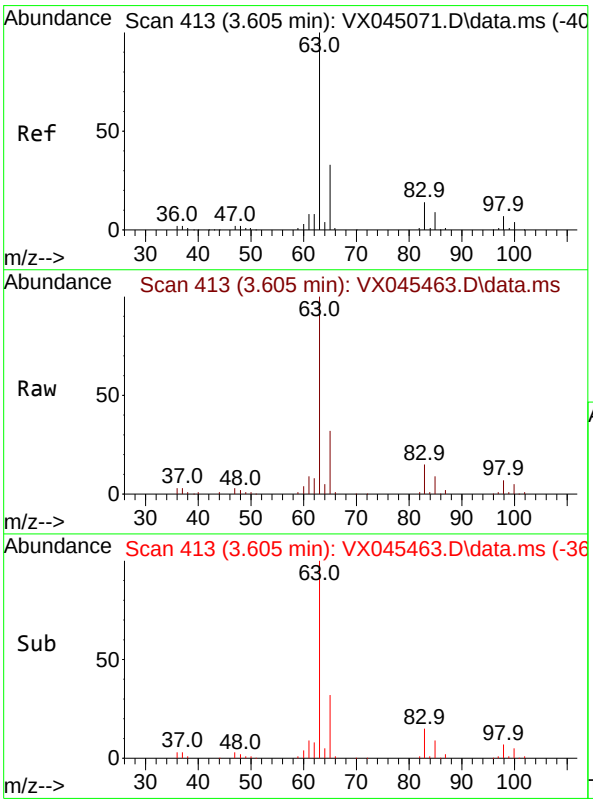
#23
Vinyl Acetate
Concen: 291.184 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 43 Resp: 878011

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

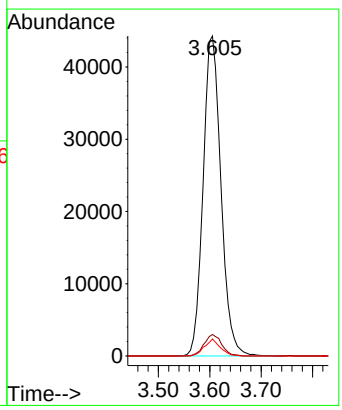


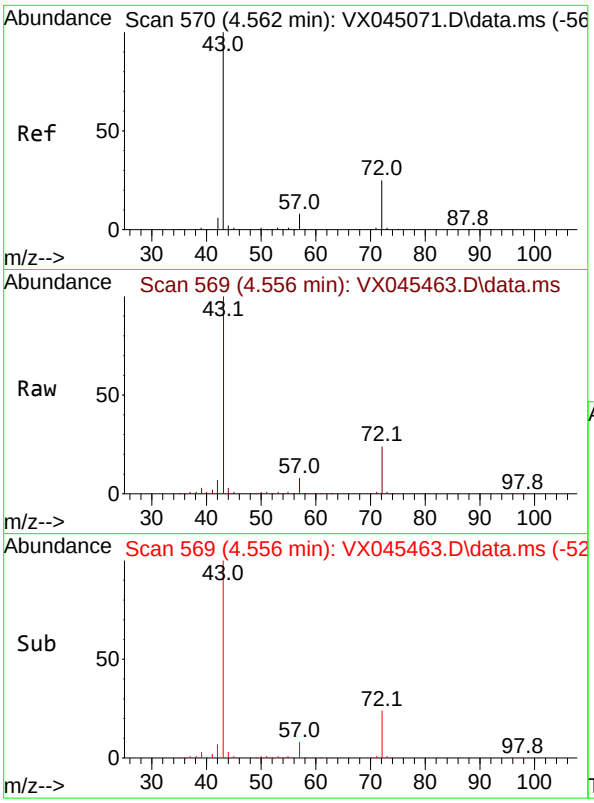


#24
1,1-Dichloroethane
Concen: 52.729 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 63 Resp: 106777

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.4	10.2
100	5.3	2.1	6.5



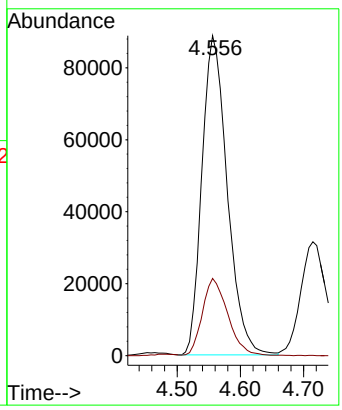


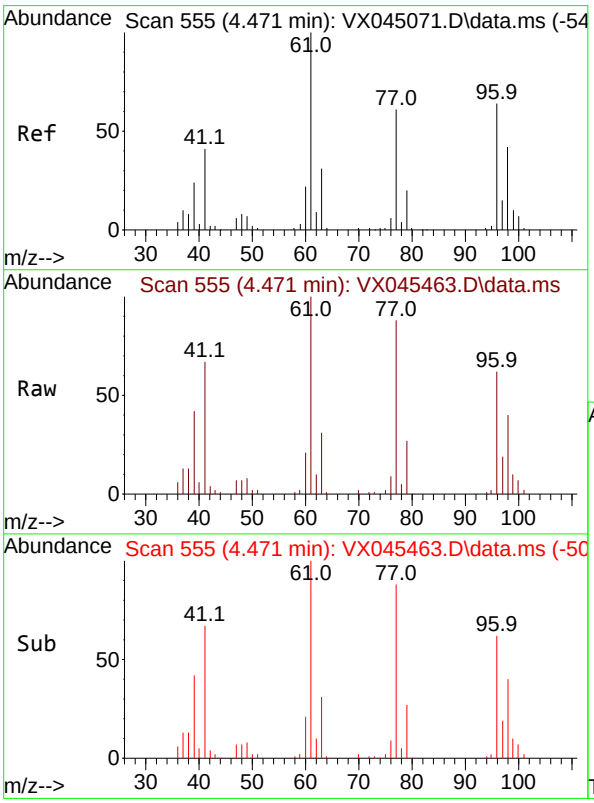
#25
2-Butanone
Concen: 274.214 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 43 Resp: 247432

Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.0	30.0

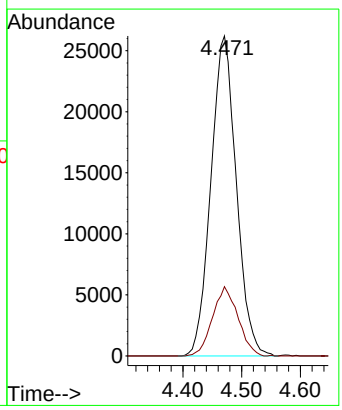


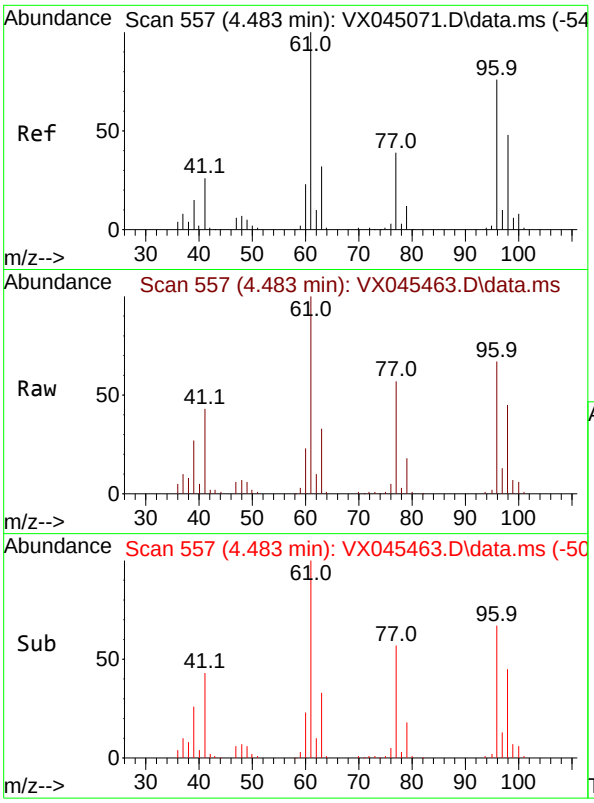


#26
2,2-Dichloropropane
Concen: 82.944 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 77 Resp: 78783

Ion	Ratio	Lower	Upper
77	100		
97	21.6	12.4	37.0



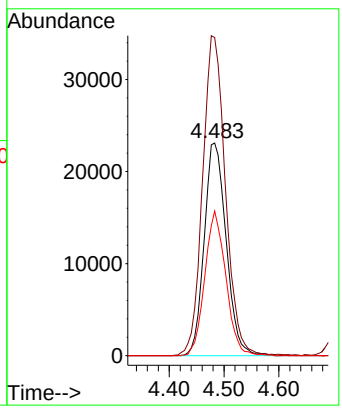


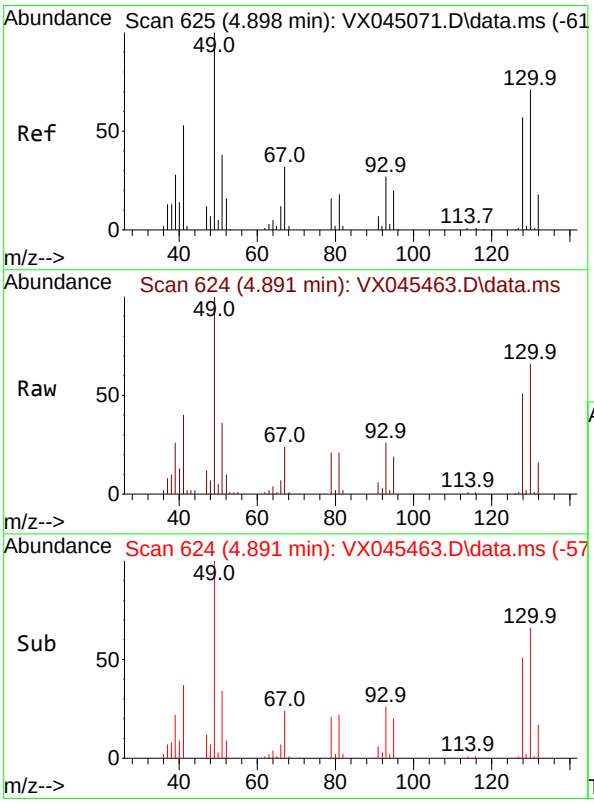
#27
cis-1,2-Dichloroethene
Concen: 52.894 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 96 Resp: 64385

Ion	Ratio	Lower	Upper
96	100		
61	155.9	0.0	283.2
98	65.1	0.0	128.0

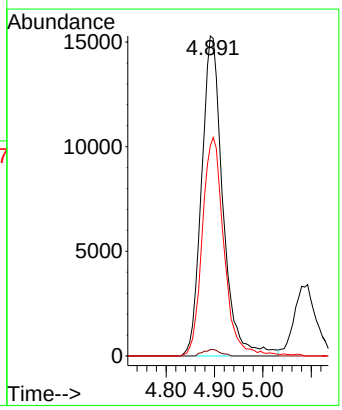


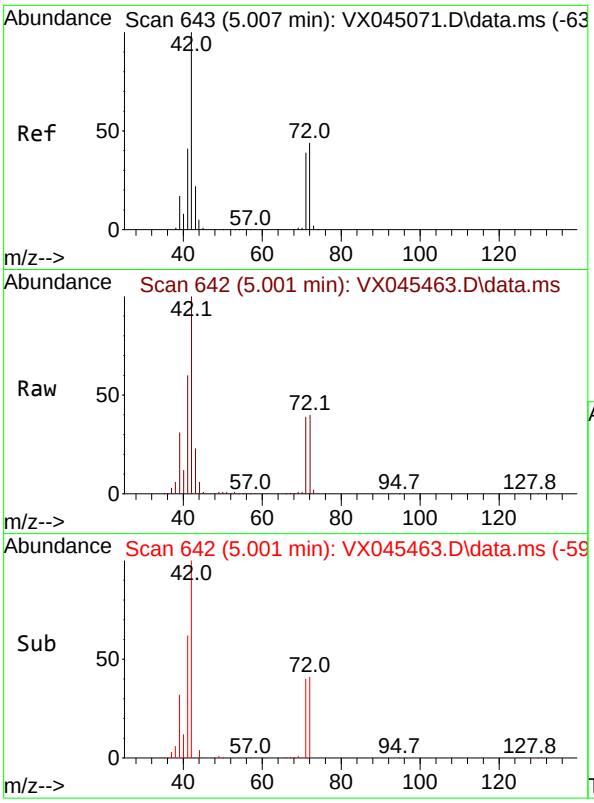


#28
Bromochloromethane
Concen: 48.439 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 49 Resp: 46754

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.4
130	69.5	56.1	84.1



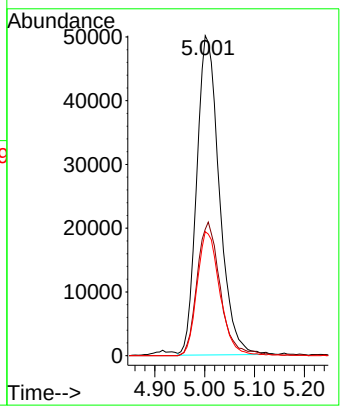


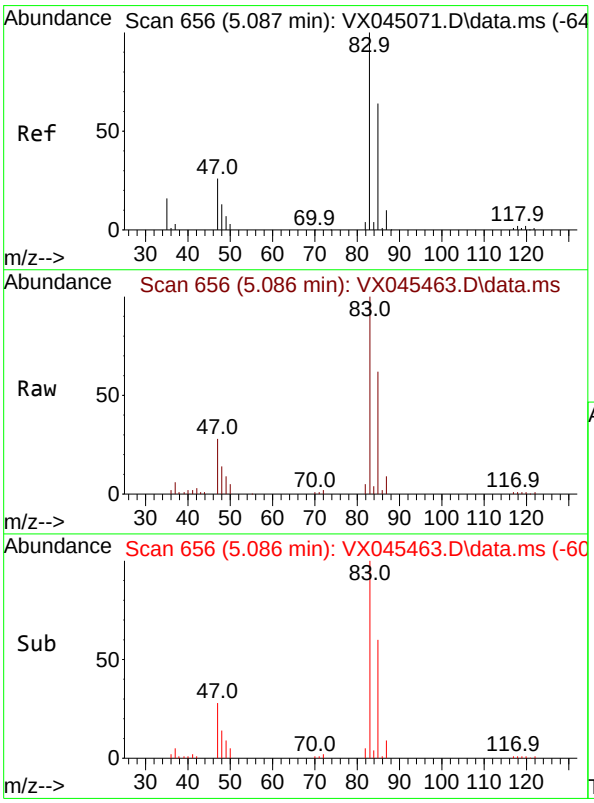
#29
Tetrahydrofuran
Concen: 259.959 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 42 Resp: 157525

Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.1	51.1
71	39.4	31.4	47.0

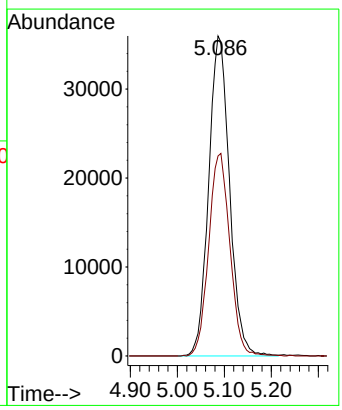


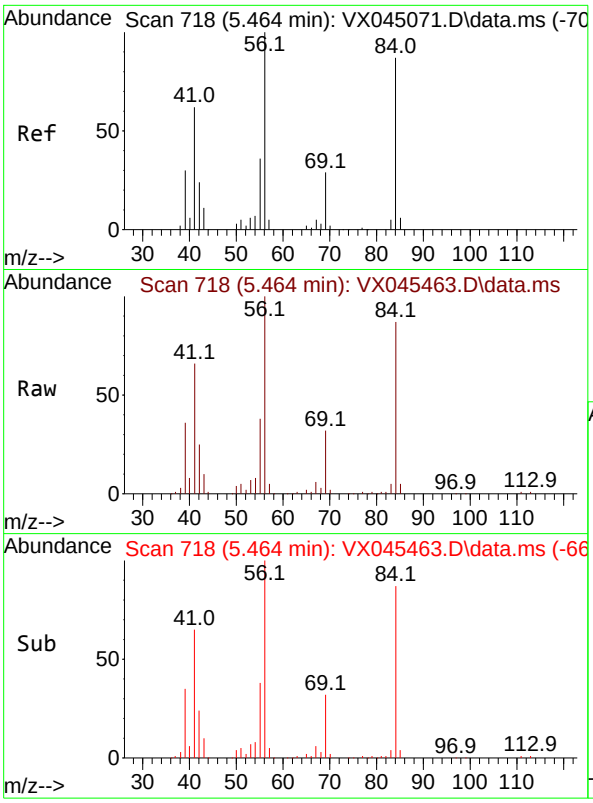


#30
Chloroform
Concen: 55.106 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 83 Resp: 110878

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.4	77.2



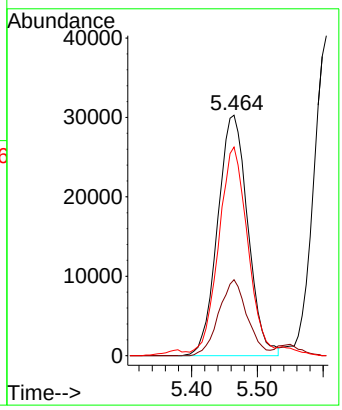


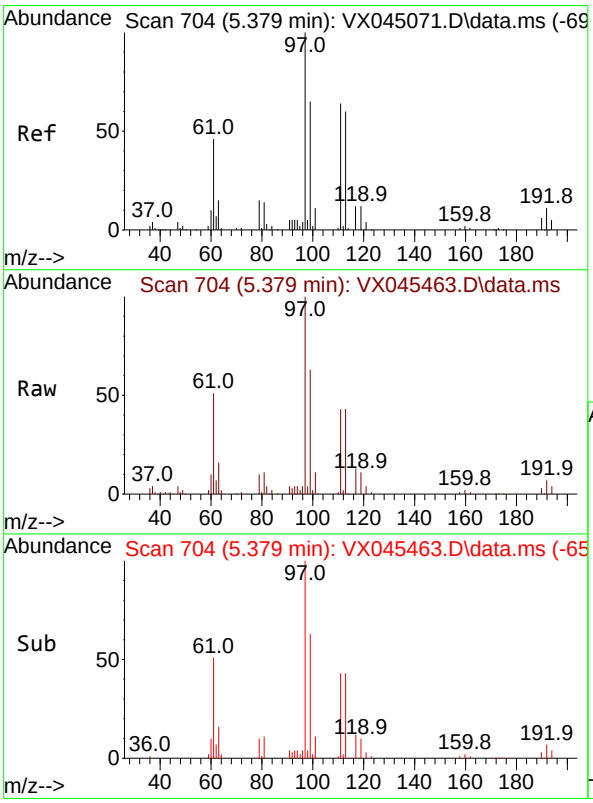
#31
Cyclohexane
Concen: 54.865 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 56 Resp: 96443

Ion	Ratio	Lower	Upper
56	100		
69	31.6	23.4	35.2
84	84.3	69.4	104.2

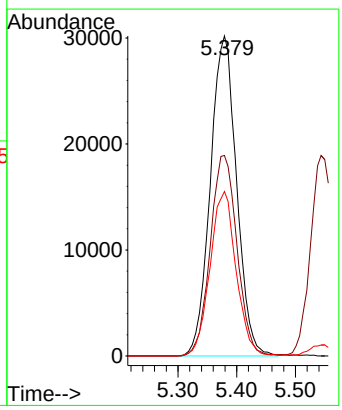


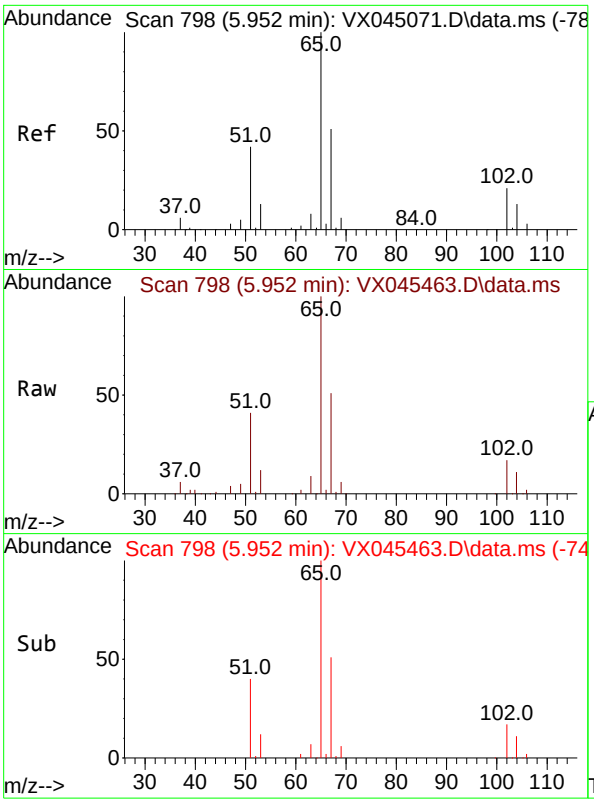


#32
1,1,1-Trichloroethane
Concen: 57.604 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 97 Resp: 93611

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	51.2	38.4	57.6



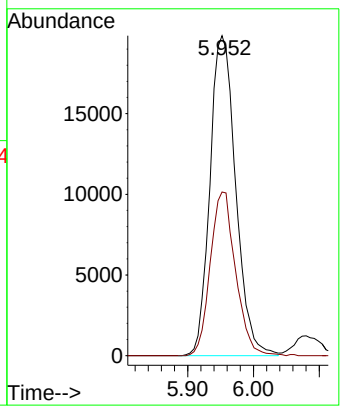


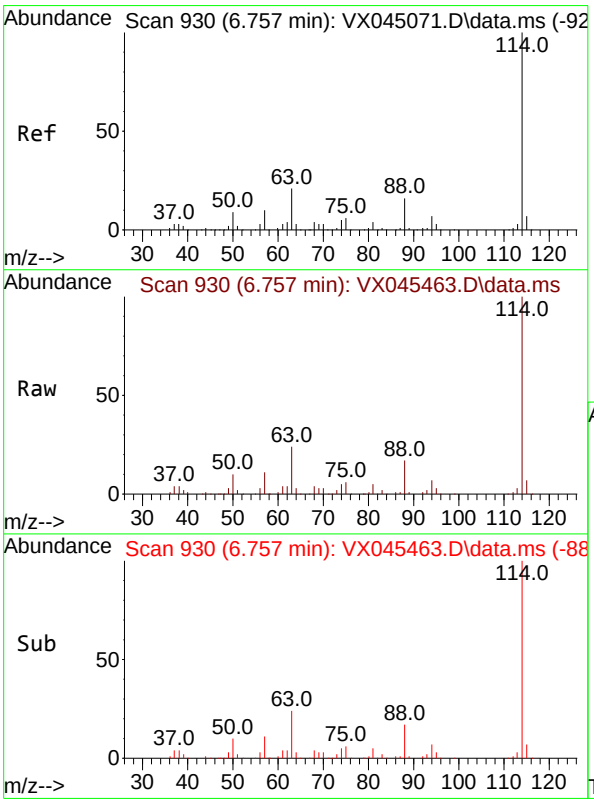
#33
1,2-Dichloroethane-d4
Concen: 41.896 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 65 Resp: 54130

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	106.2

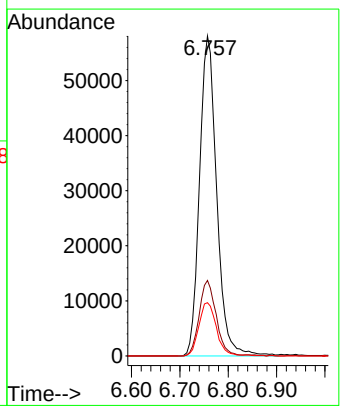


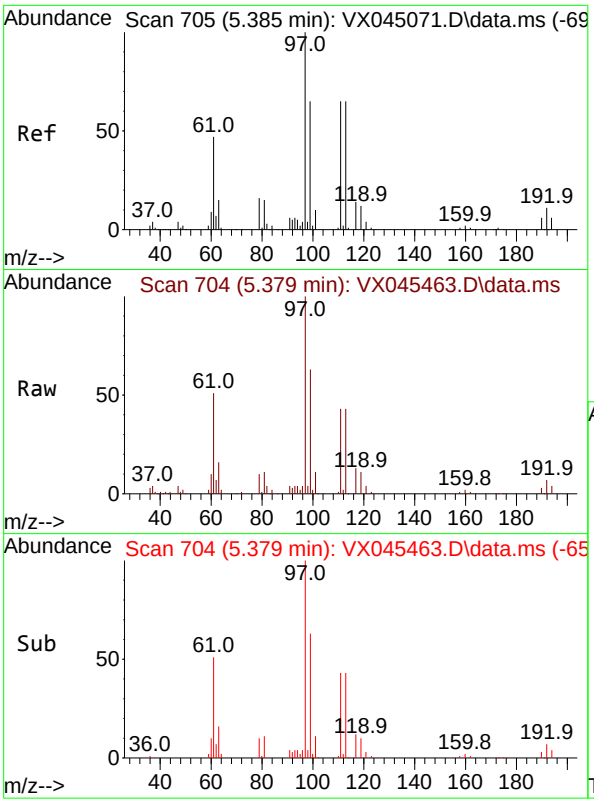


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:114 Resp: 143287

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	41.8
88	16.6	0.0	32.8



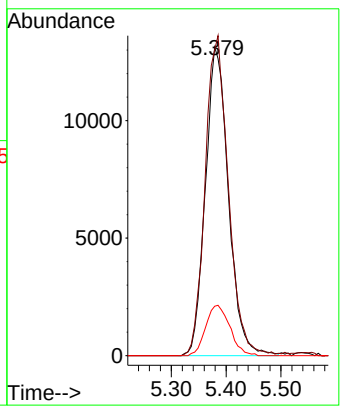


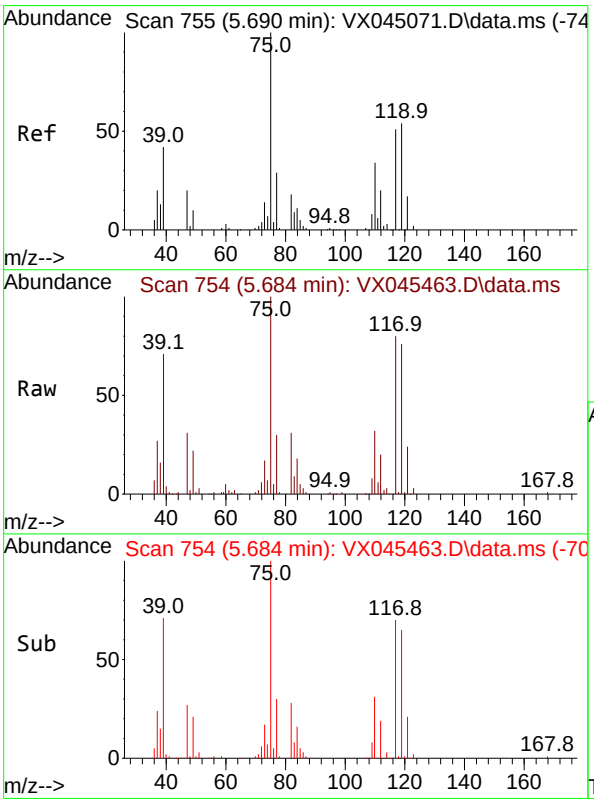
#35
Dibromofluoromethane
Concen: 40.071 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:113 Resp: 38393

Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.8	122.6
192	17.1	14.3	21.5

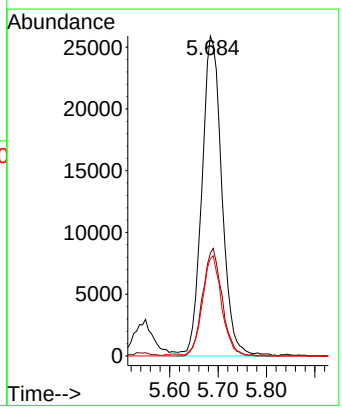


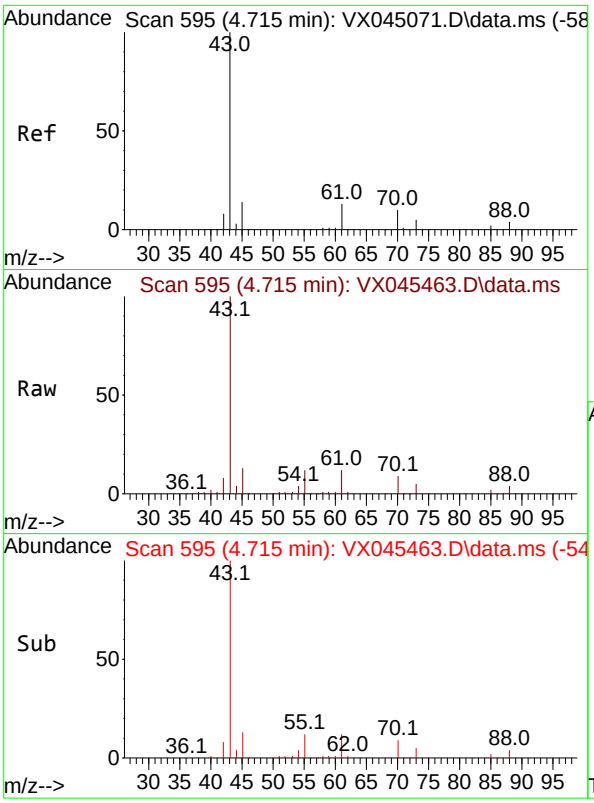


#36
1,1-Dichloropropene
Concen: 56.492 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 74229

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.9	50.6
77	30.1	24.5	36.7



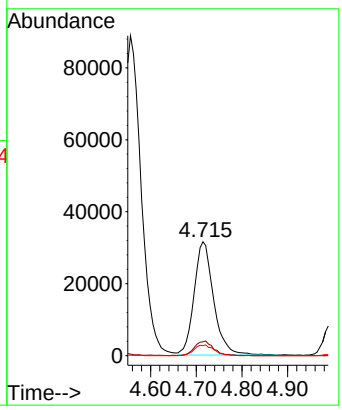


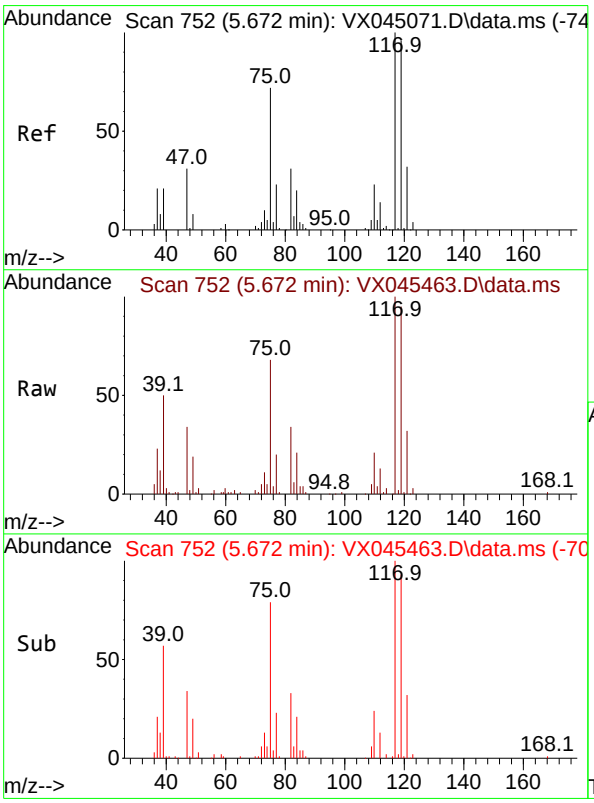
#37
Ethyl Acetate
Concen: 55.110 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 43 Resp: 93308

Ion	Ratio	Lower	Upper
43	100		
61	12.8	10.8	16.2
70	9.7	7.7	11.5

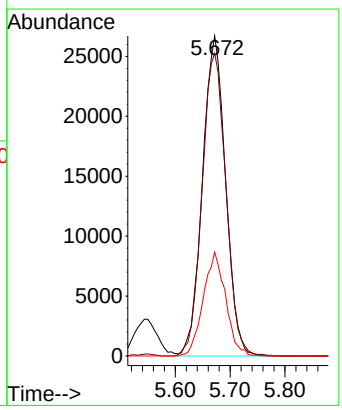


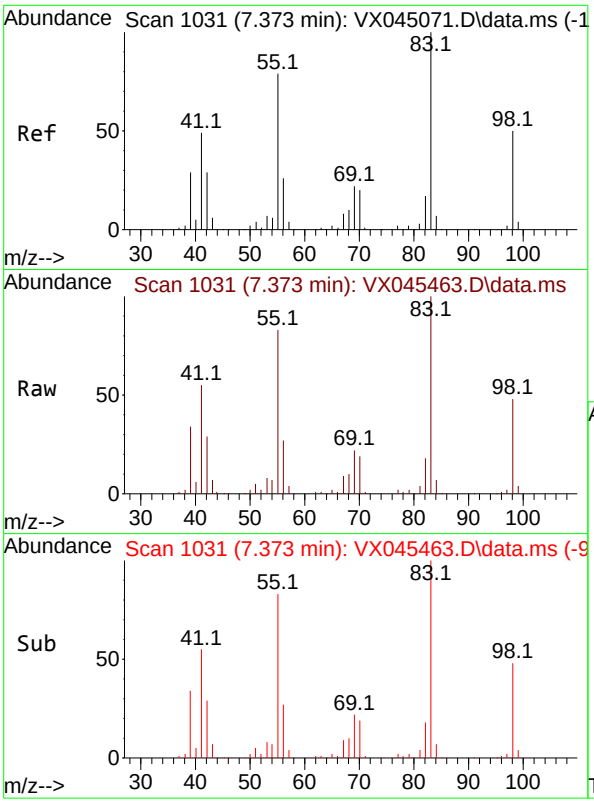


#38
Carbon Tetrachloride
Concen: 58.681 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:117 Resp: 78280

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.7	115.1
121	32.4	25.5	38.3



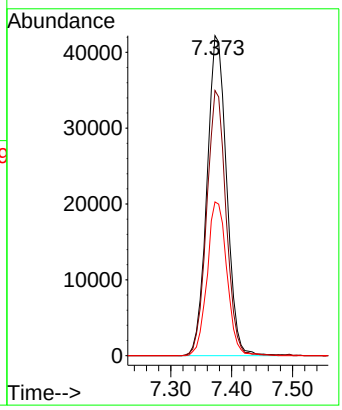


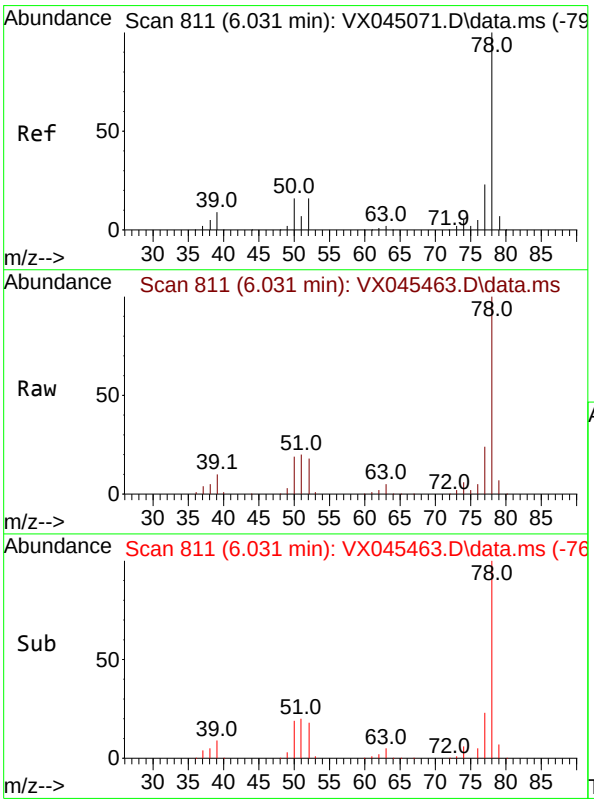
#39
Methylcyclohexane
Concen: 59.974 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 83 Resp: 94425

Ion	Ratio	Lower	Upper
83	100		
55	82.8	63.0	94.4
98	48.1	39.7	59.5

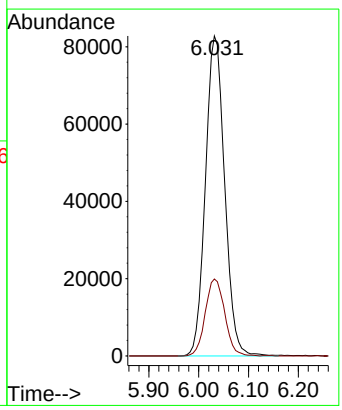


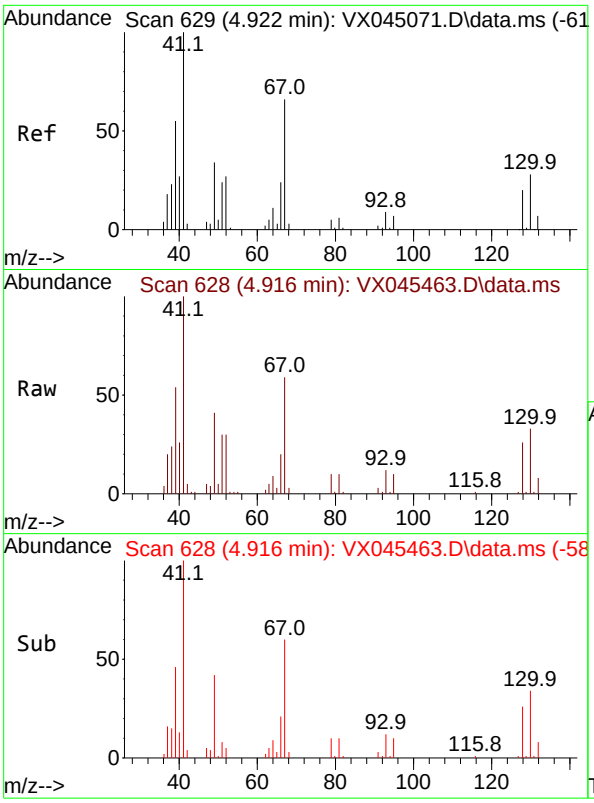


#40
Benzene
Concen: 53.392 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 78 Resp: 221537

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2



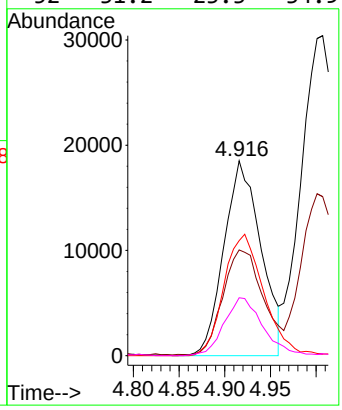


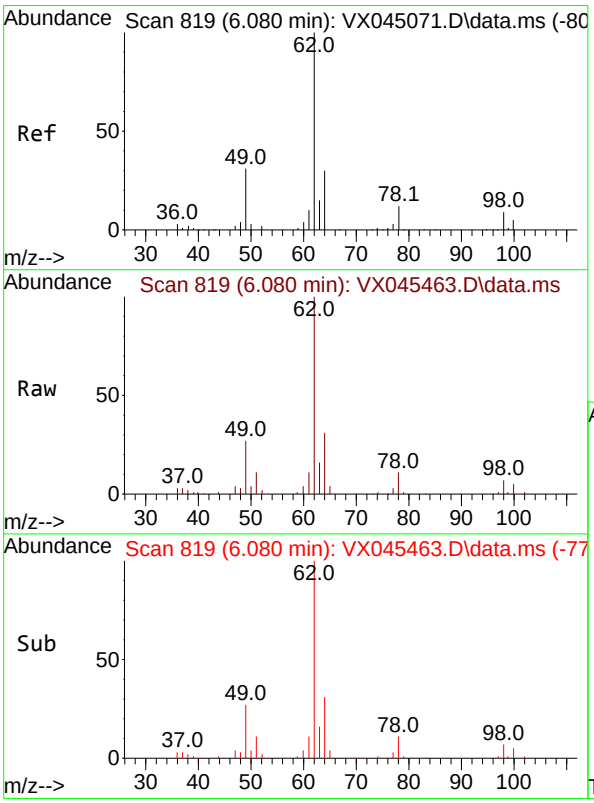
#41
Methacrylonitrile
Concen: 56.964 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 41 Resp: 52151

Ion	Ratio	Lower	Upper
41	100		
39	59.2	44.6	67.0
67	67.7	53.9	80.9
52	31.2	23.3	34.9

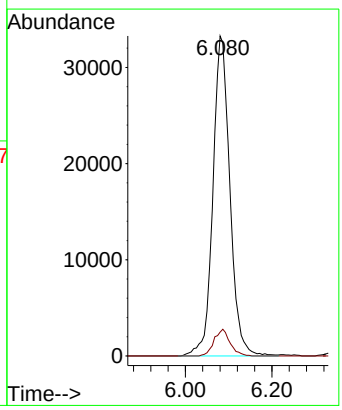


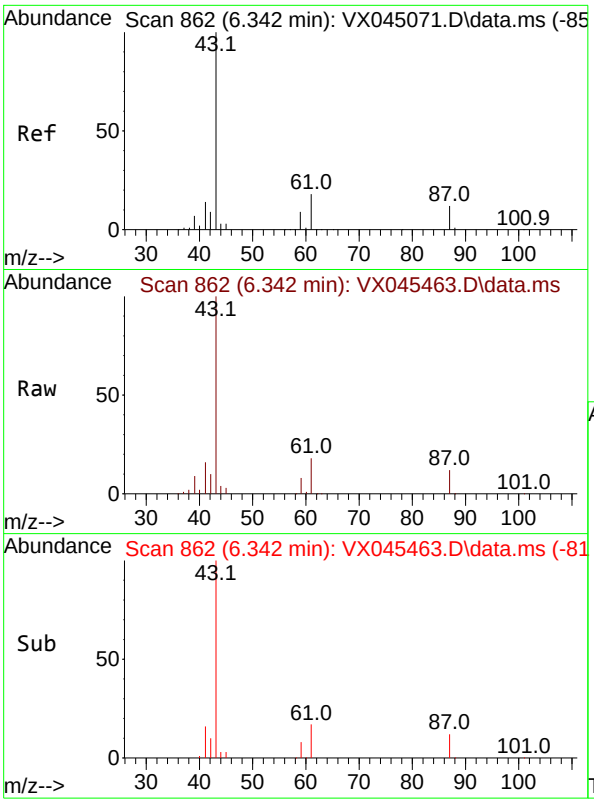


#42
1,2-Dichloroethane
Concen: 60.723 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 62 Resp: 90728

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2



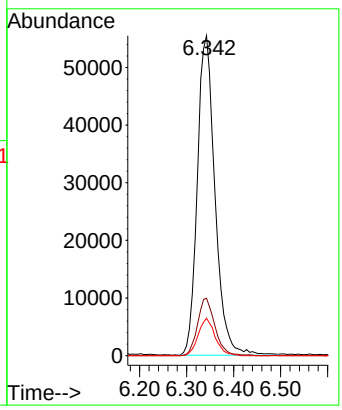


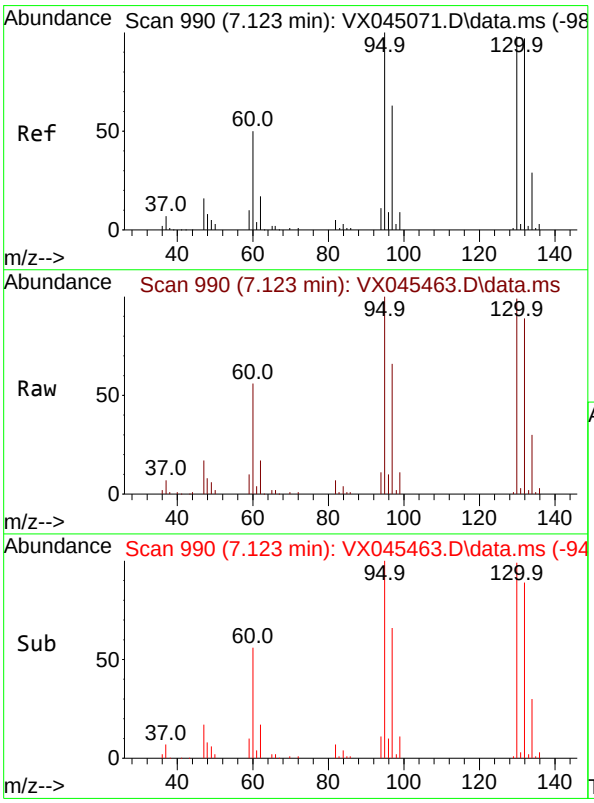
#43
Isopropyl Acetate
Concen: 58.007 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 43 Resp: 145230

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.9	22.3
87	11.2	9.4	14.2

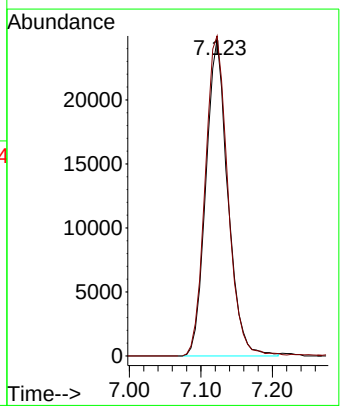


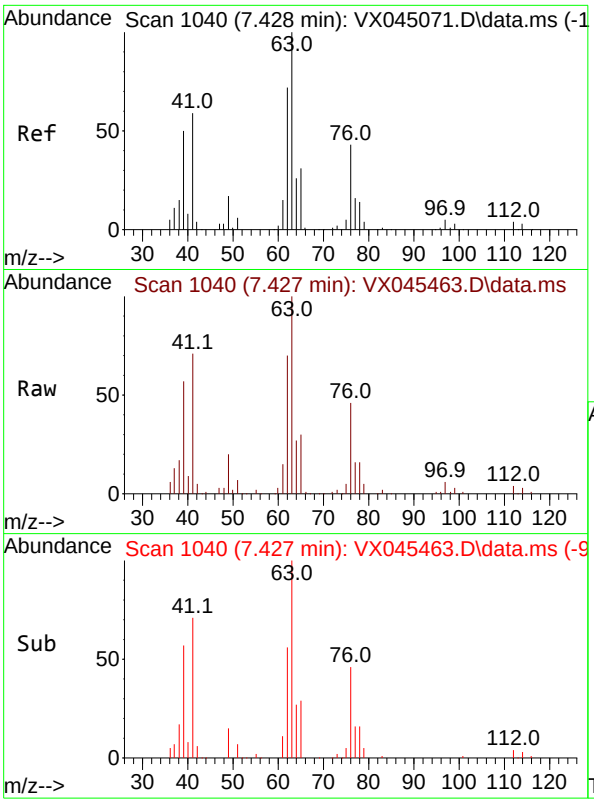


#44
Trichloroethene
Concen: 53.991 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:130 Resp: 52602

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	205.0



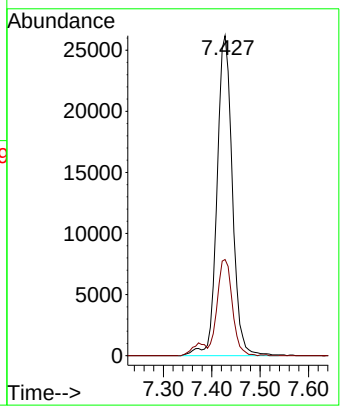


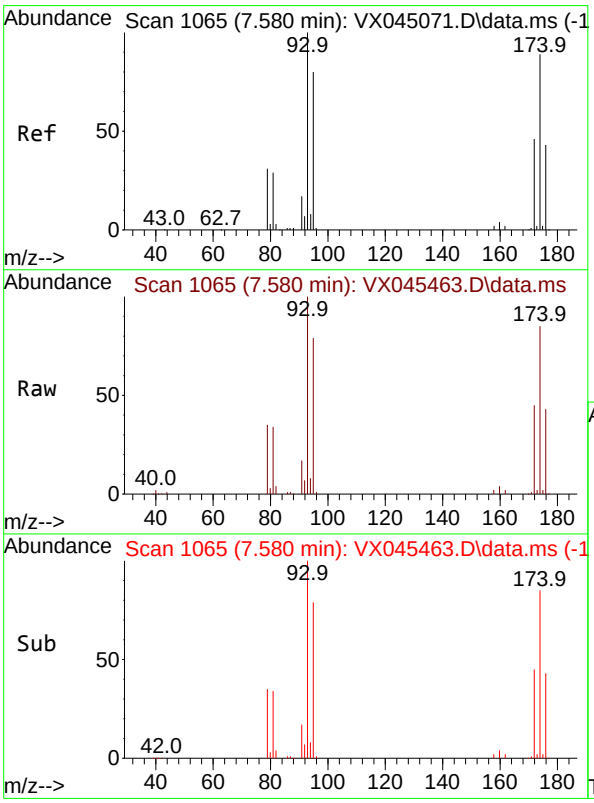
#45
1,2-Dichloropropane
Concen: 54.102 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 63 Resp: 57716

Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.7	37.1

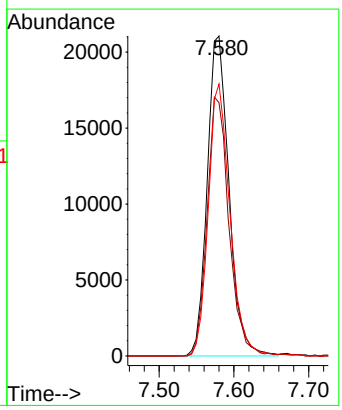


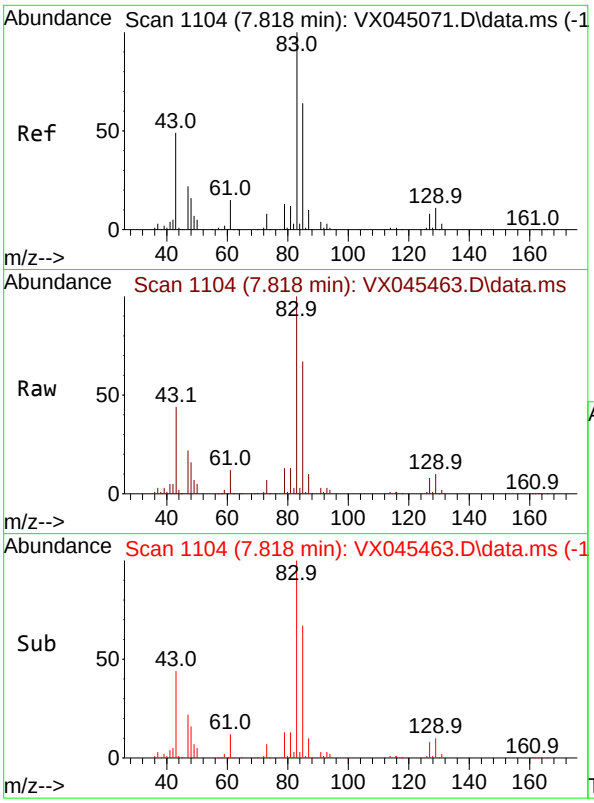


#46
Dibromomethane
Concen: 56.564 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 93 Resp: 42651

Ion	Ratio	Lower	Upper
93	100		
95	81.6	65.8	98.8
174	84.7	72.2	108.2



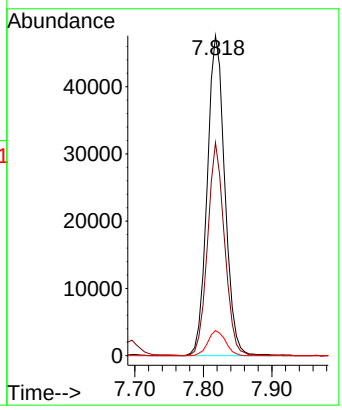


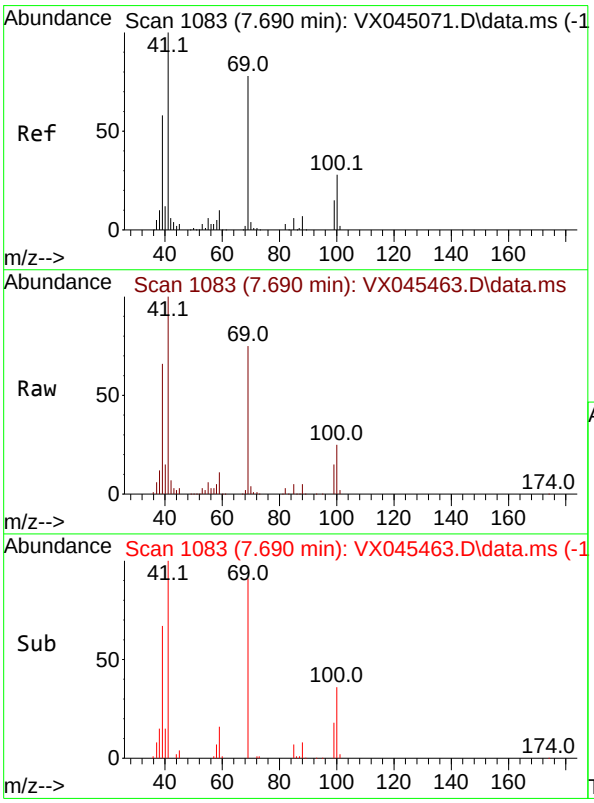
#47
Bromodichloromethane
Concen: 57.553 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 83 Resp: 85122

Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7
127	7.9	6.4	9.6

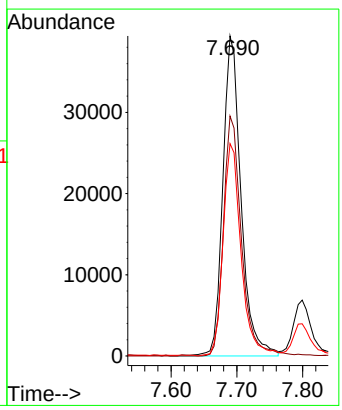


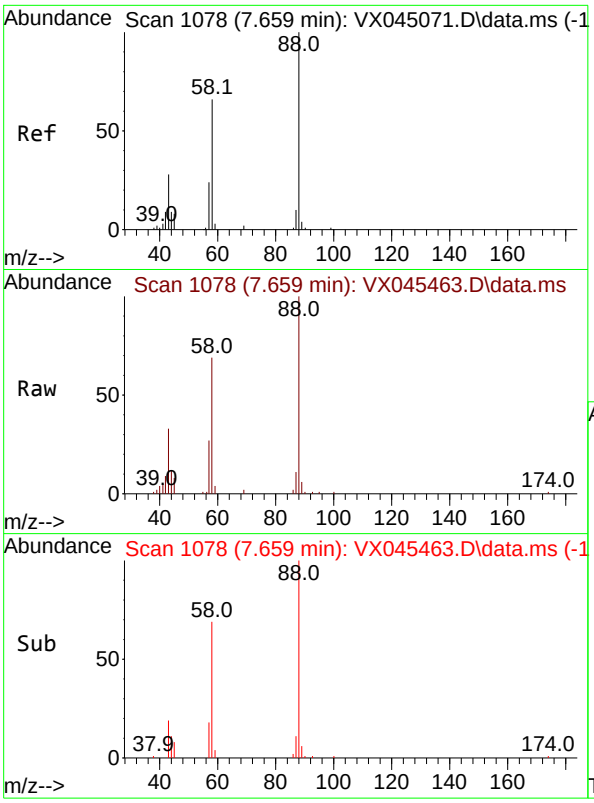


#48
Methyl methacrylate
Concen: 60.425 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 41 Resp: 75898

Ion	Ratio	Lower	Upper
41	100		
69	74.4	63.0	94.6
39	65.9	47.5	71.3



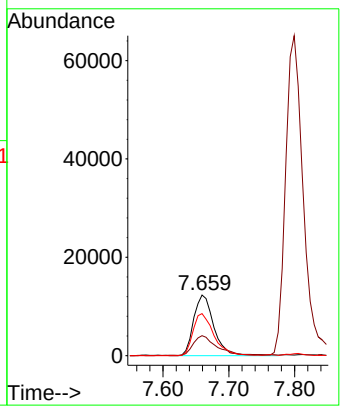


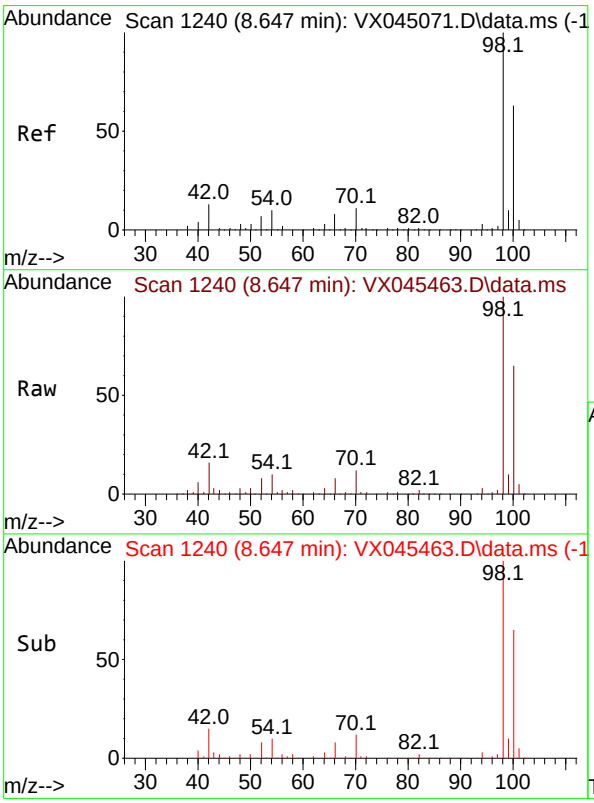
#49
1,4-Dioxane
Concen: 994.704 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 88 Resp: 26355

Ion	Ratio	Lower	Upper
88	100		
43	39.7	28.7	43.1
58	71.6	55.8	83.8

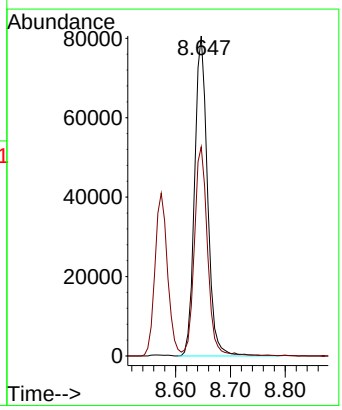


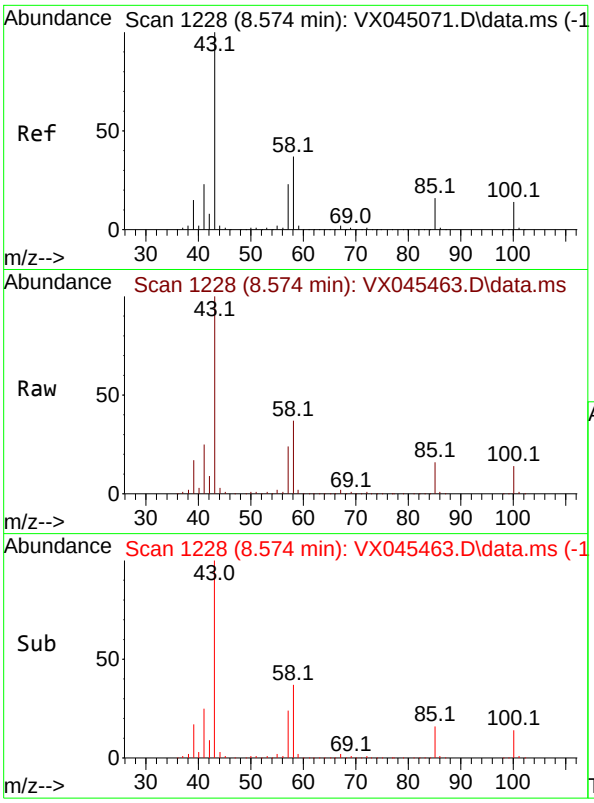


#50
Toluene-d8
Concen: 38.137 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 98 Resp: 132471

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.0	78.0



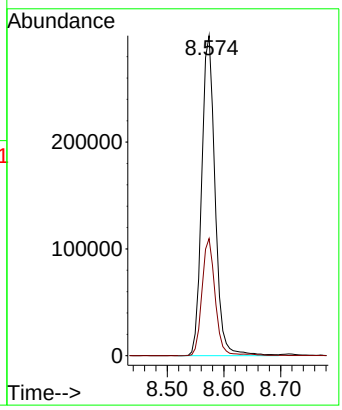


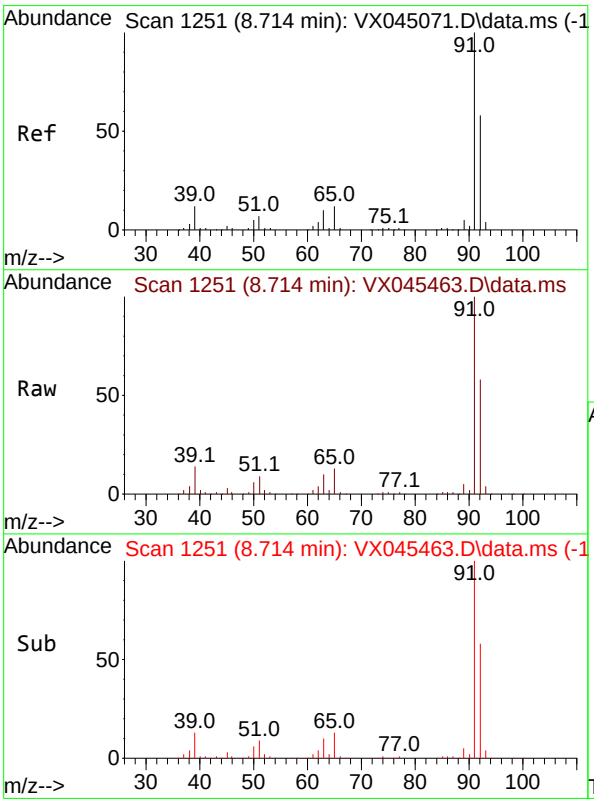
#51
4-Methyl-2-Pentanone
Concen: 291.351 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 43 Resp: 489781

Ion	Ratio	Lower	Upper
43	100		
58	35.6	29.2	43.8

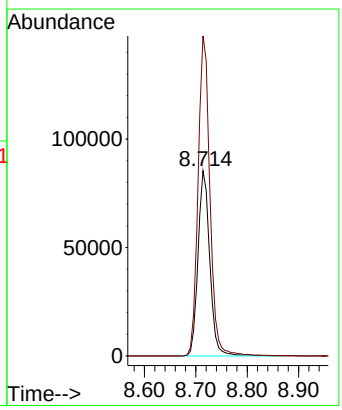


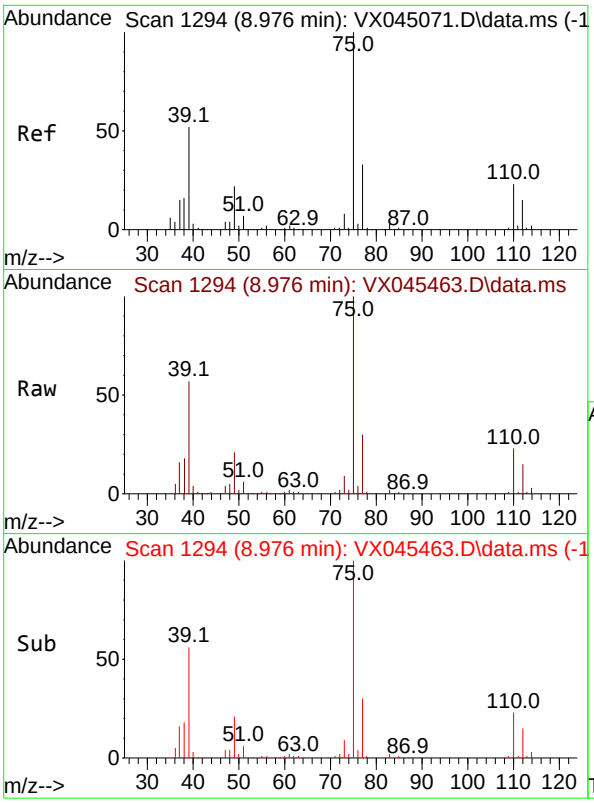


#52
Toluene
Concen: 55.663 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 92 Resp: 135507

Ion	Ratio	Lower	Upper
92	100		
91	174.4	138.9	208.3



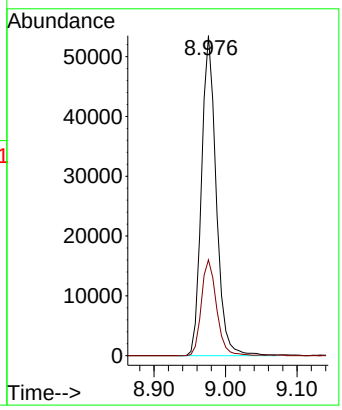


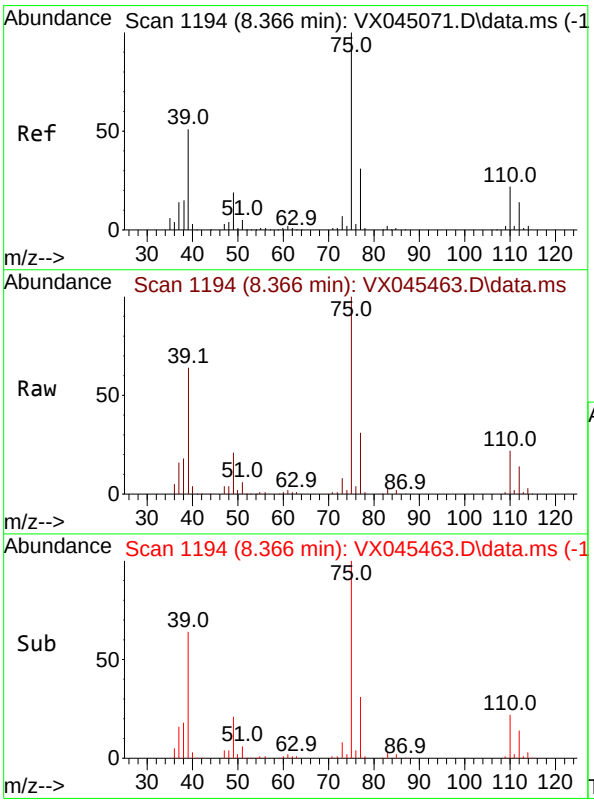
#53
t-1,3-Dichloropropene
Concen: 61.892 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 75 Resp: 76527

Ion	Ratio	Lower	Upper
75	100		
77	30.0	26.5	39.7

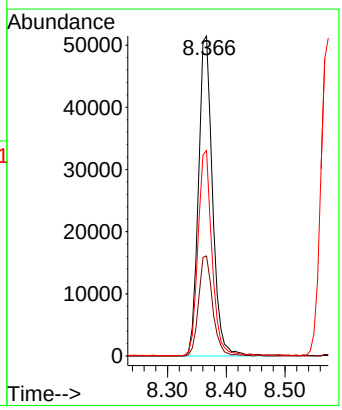


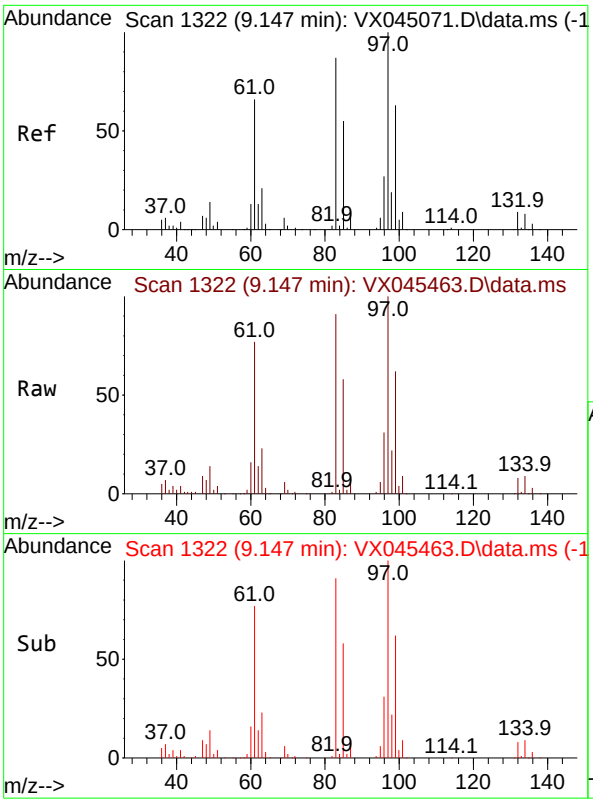


#54
cis-1,3-Dichloropropene
Concen: 59.283 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 85476

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.7	37.1
39	64.0	40.7	61.1#



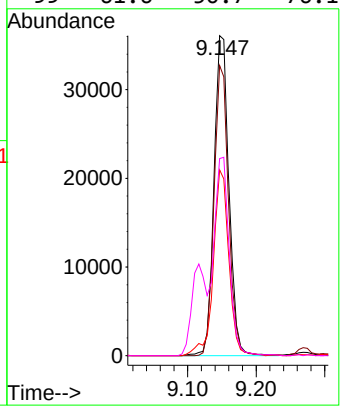


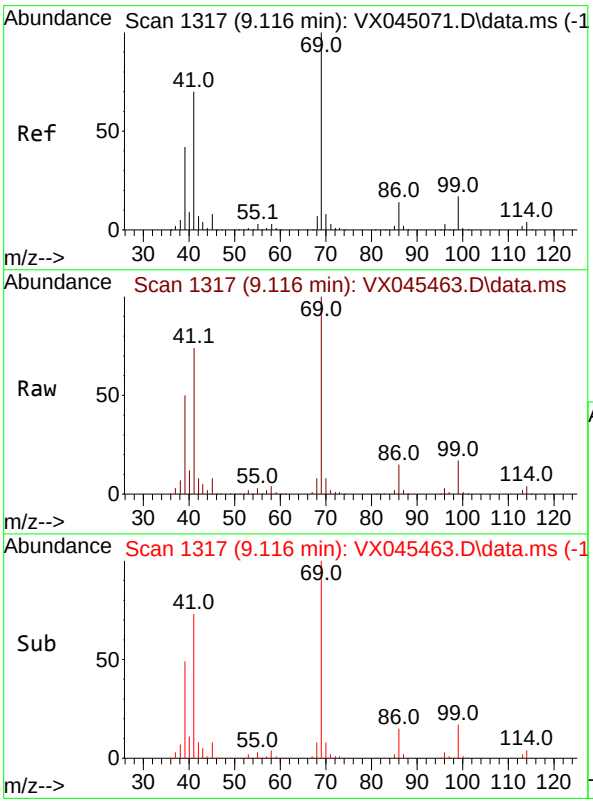
#55
1,1,2-Trichloroethane
Concen: 54.524 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 97 Resp: 54644

Ion	Ratio	Lower	Upper
97	100		
83	90.7	69.4	104.2
85	58.0	44.1	66.1
99	61.6	50.7	76.1

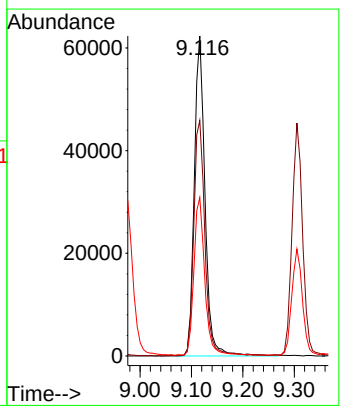


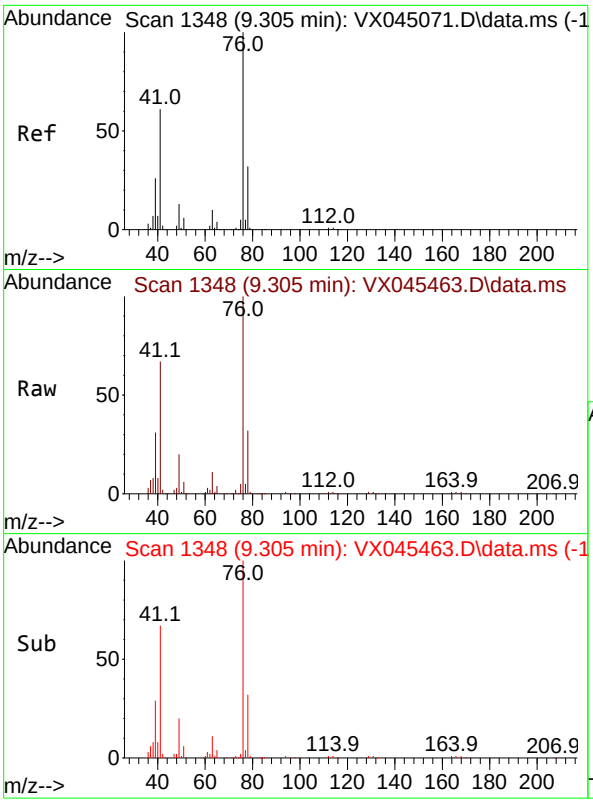


#56
Ethyl methacrylate
Concen: 59.401 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 69 Resp: 90492

Ion	Ratio	Lower	Upper
69	100		
41	76.3	57.0	85.4
39	50.2	34.2	51.4



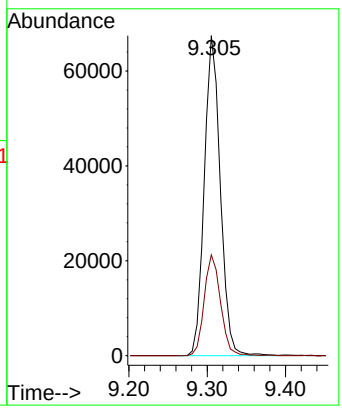


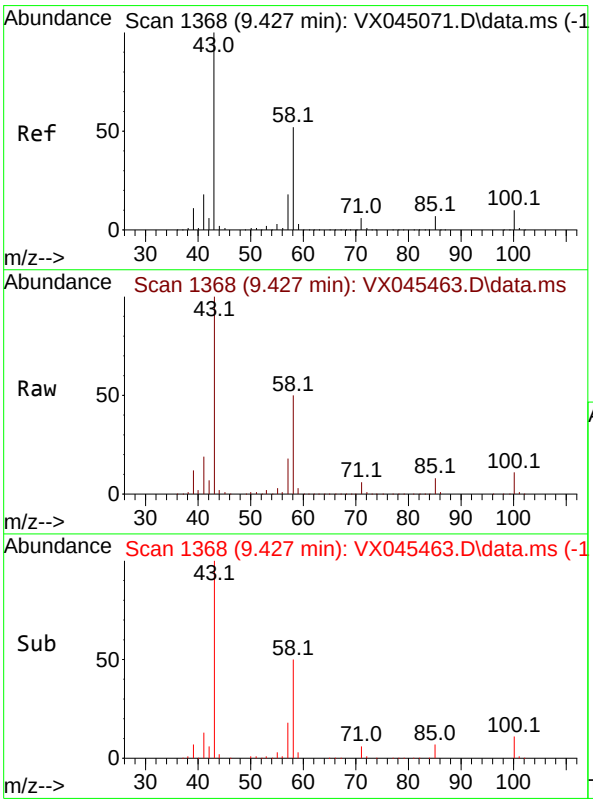
#57
1,3-Dichloropropane
Concen: 55.134 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 76 Resp: 95623

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.5	38.3

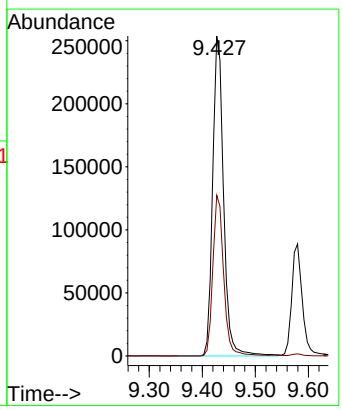


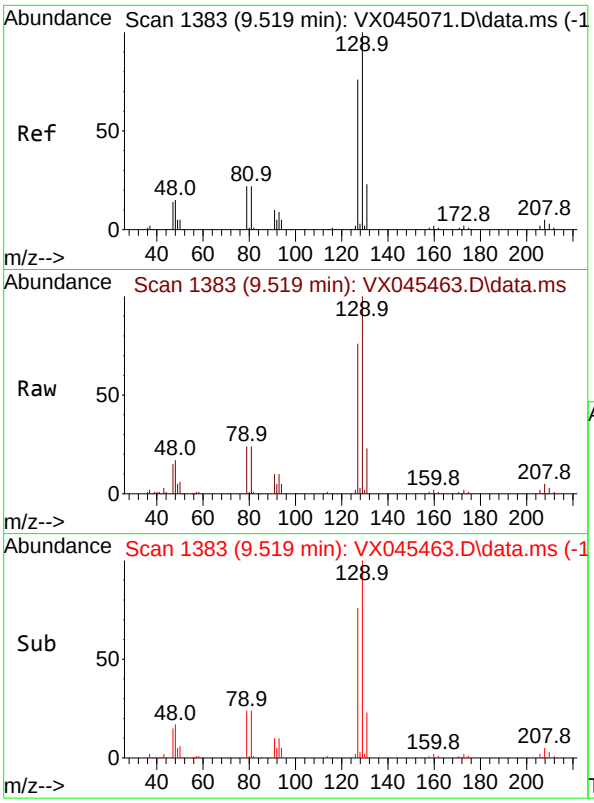


#59
2-Hexanone
Concen: 298.233 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 43 Resp: 363249

Ion	Ratio	Lower	Upper
43	100		
58	50.1	25.9	77.6



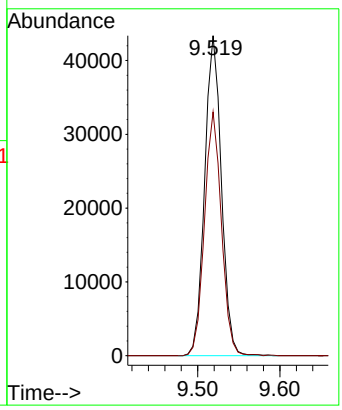


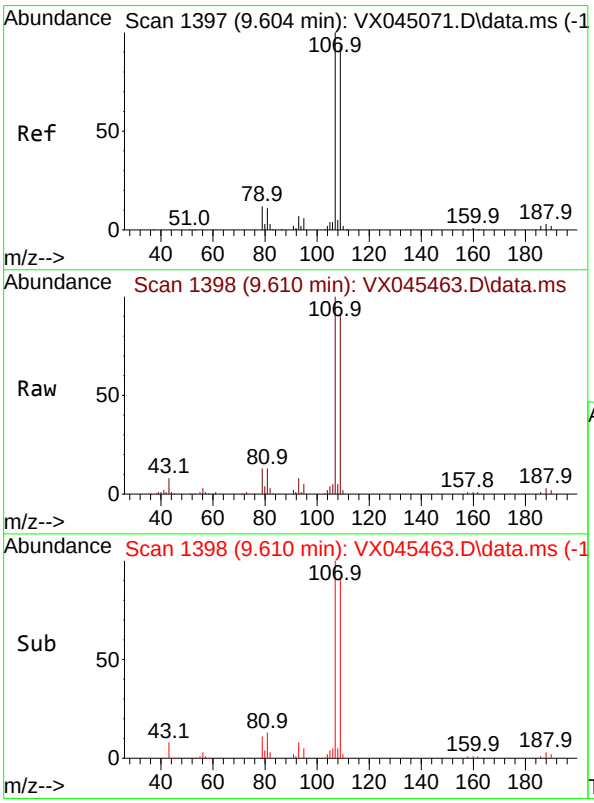
#60
Dibromochloromethane
Concen: 58.493 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:129 Resp: 61294

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5

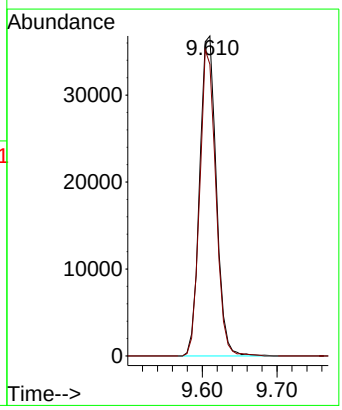


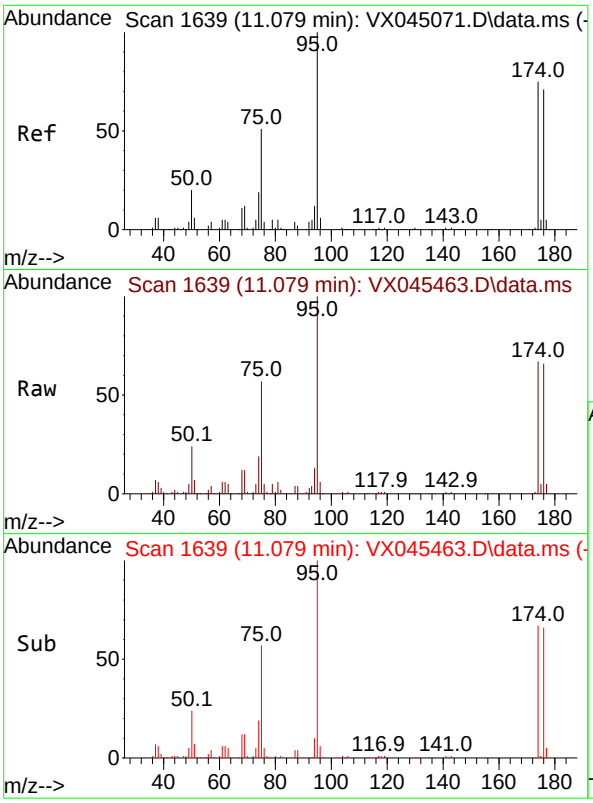


#61
1,2-Dibromoethane
Concen: 56.746 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:107 Resp: 56774

Ion	Ratio	Lower	Upper
107	100		
109	92.6	76.1	114.1



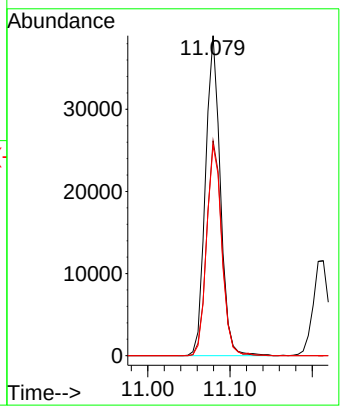


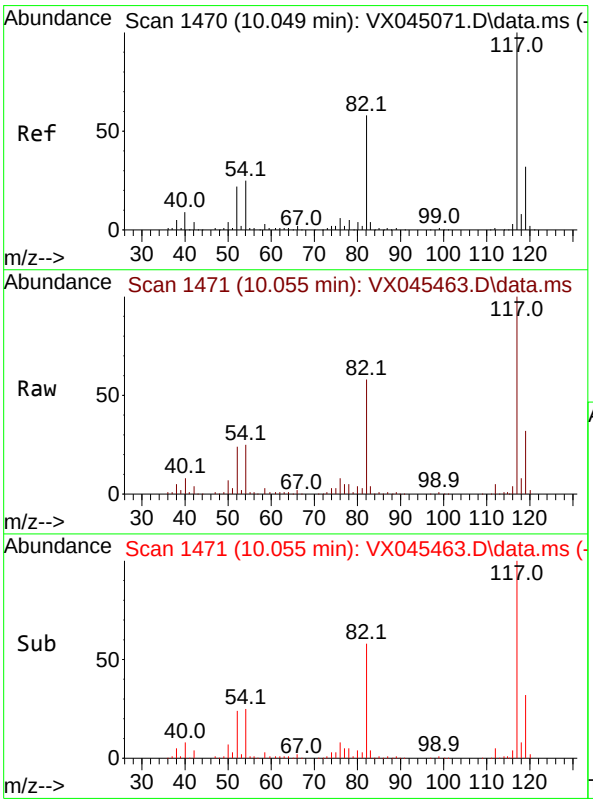
#62
4-Bromofluorobenzene
Concen: 42.526 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 95 Resp: 48948

Ion	Ratio	Lower	Upper
95	100		
174	68.5	0.0	148.2
176	66.9	0.0	141.4

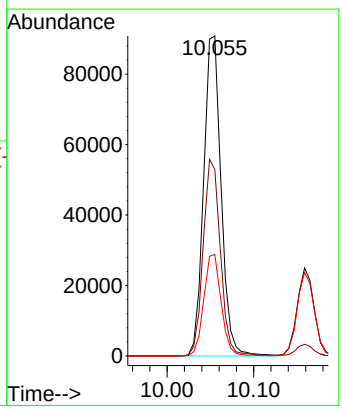


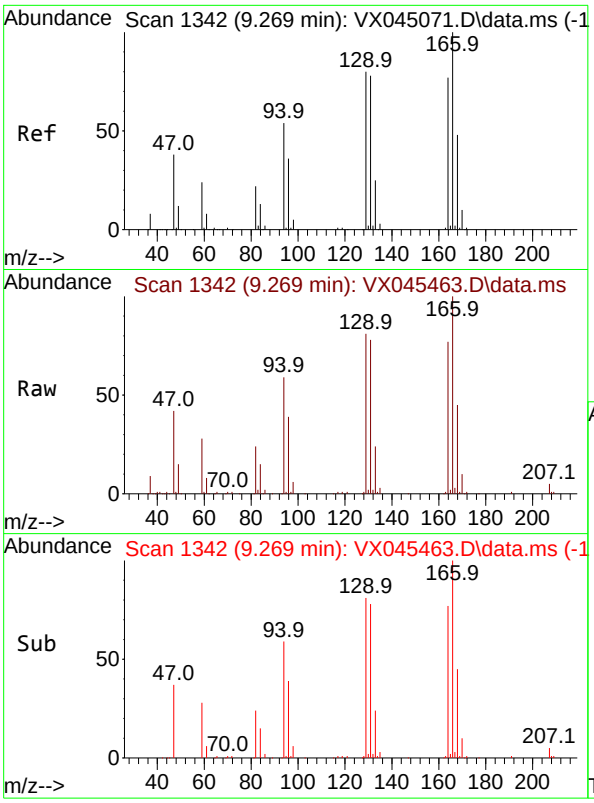


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:117 Resp: 127464

Ion	Ratio	Lower	Upper
117	100		
82	58.3	46.3	69.5
119	31.7	25.7	38.5



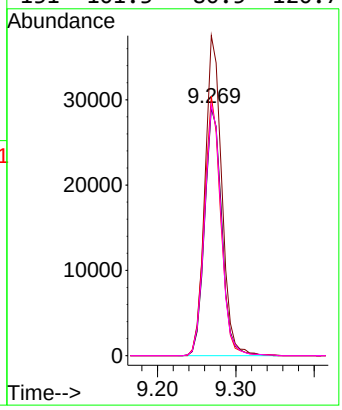


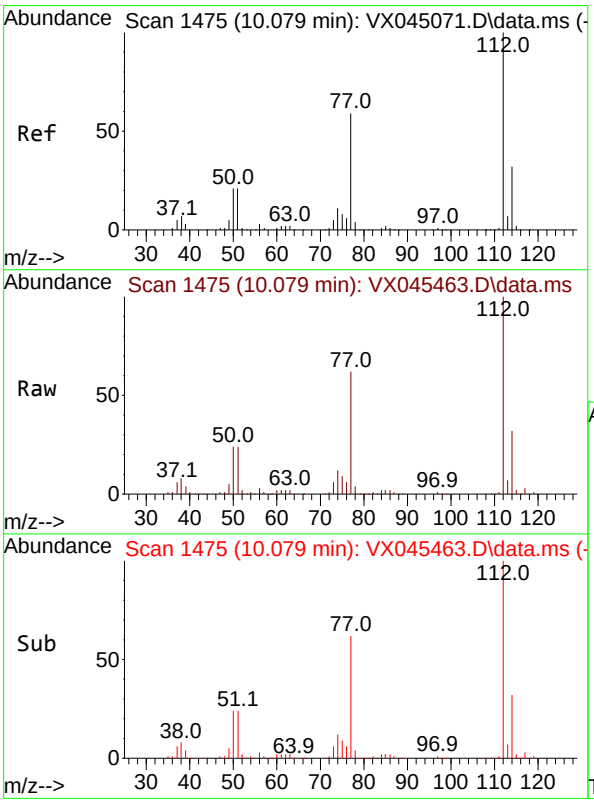
#64
Tetrachloroethene
Concen: 53.511 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:164 Resp: 43684

Ion	Ratio	Lower	Upper
164	100		
166	129.3	103.6	155.4
129	105.0	82.7	124.1
131	101.3	80.5	120.7

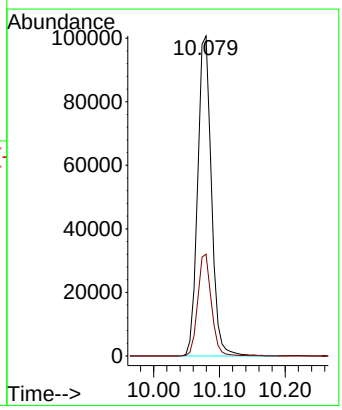


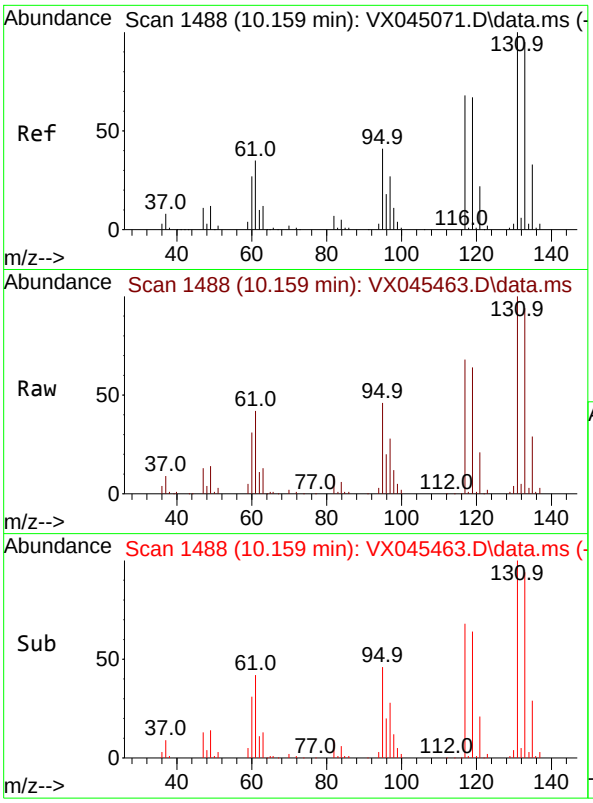


#65
Chlorobenzene
Concen: 54.287 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:112 Resp: 146418

Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.0	39.0



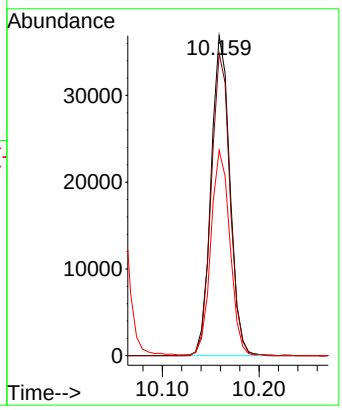


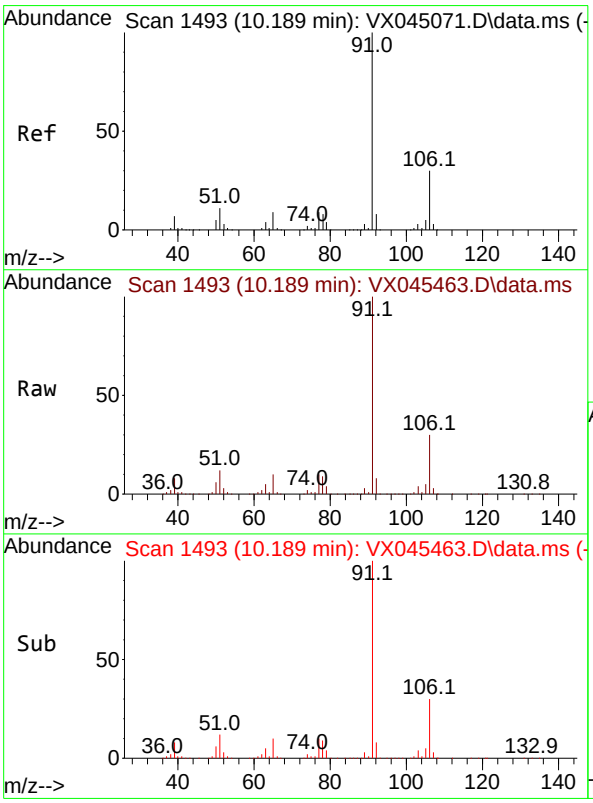
#66
1,1,1,2-Tetrachloroethane
Concen: 55.459 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:131 Resp: 49813

Ion	Ratio	Lower	Upper
131	100		
133	94.4	48.6	145.9
119	65.3	33.9	101.7

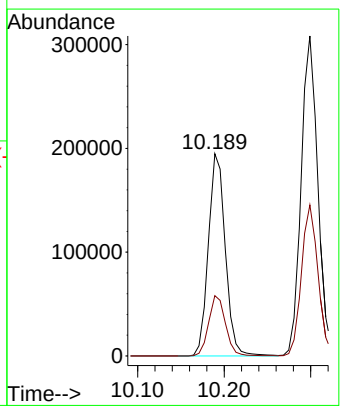


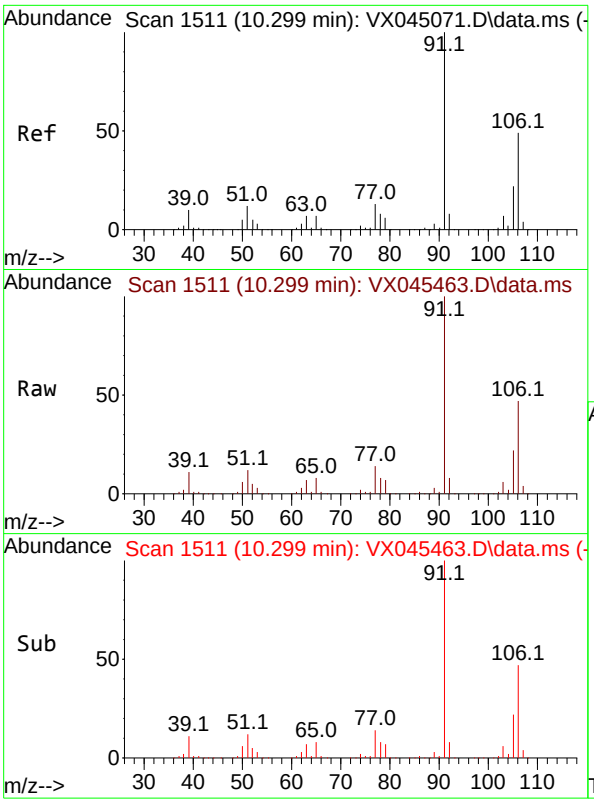


#67
Ethyl Benzene
Concen: 56.409 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 91 Resp: 265098

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.9	35.9



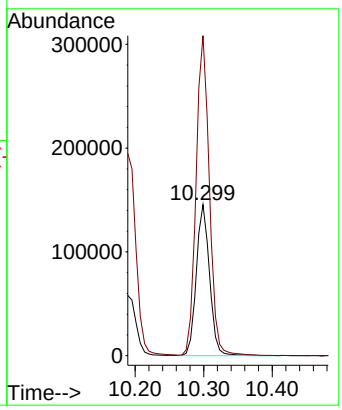


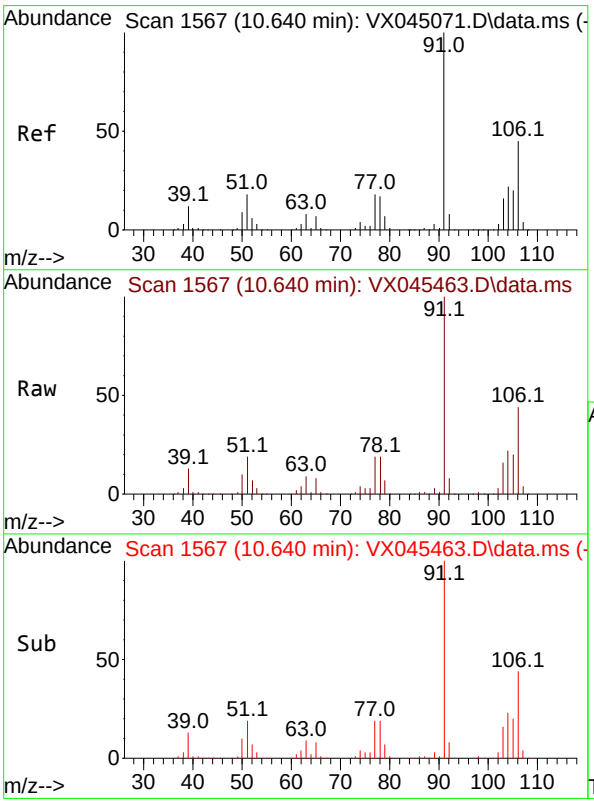
#68
m/p-Xylenes
Concen: 113.714 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:106 Resp: 195632

Ion	Ratio	Lower	Upper
106	100		
91	212.7	165.4	248.0

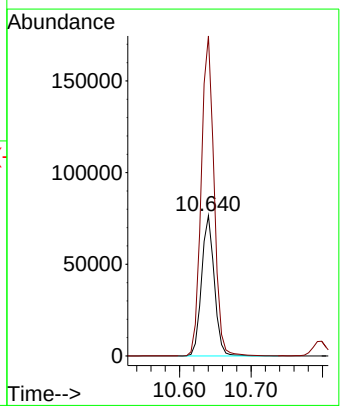


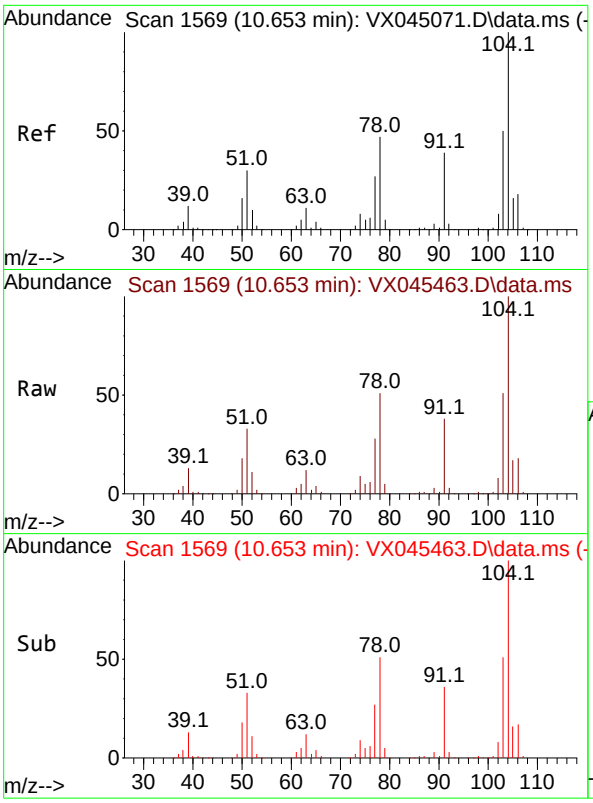


#69
o-Xylene
Concen: 54.554 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:106 Resp: 94658

Ion	Ratio	Lower	Upper
106	100		
91	229.7	109.9	329.6



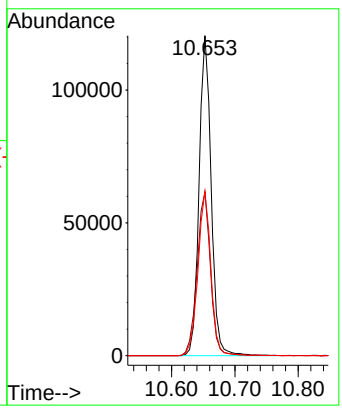


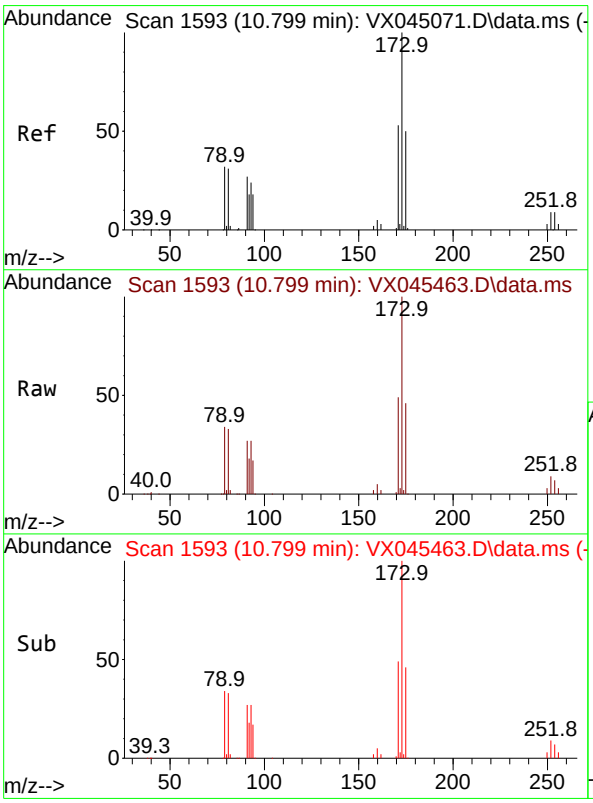
#70
Styrene
Concen: 57.174 ug/l
RT: 10.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:104 Resp: 160517

Ion	Ratio	Lower	Upper
104	100		
78	56.7	42.2	63.4
103	54.9	43.8	65.8

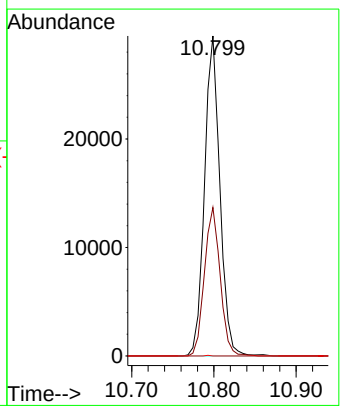


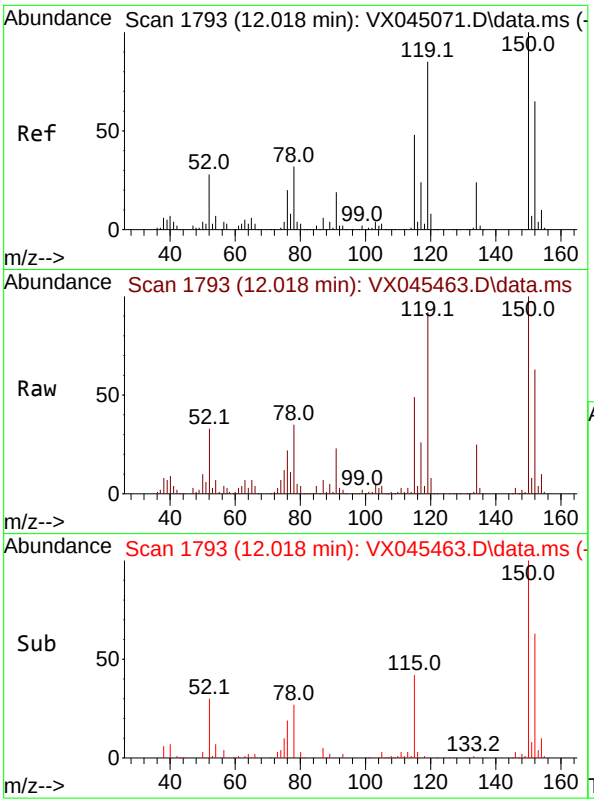


#71
Bromoform
Concen: 56.569 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:173 Resp: 38315

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.6
254	0.1	0.0	0.0#



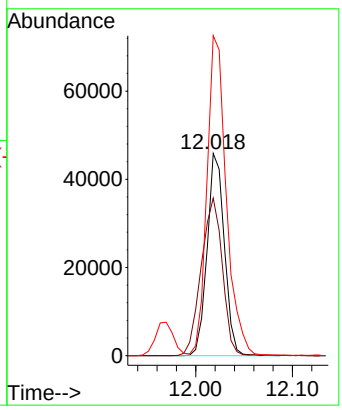


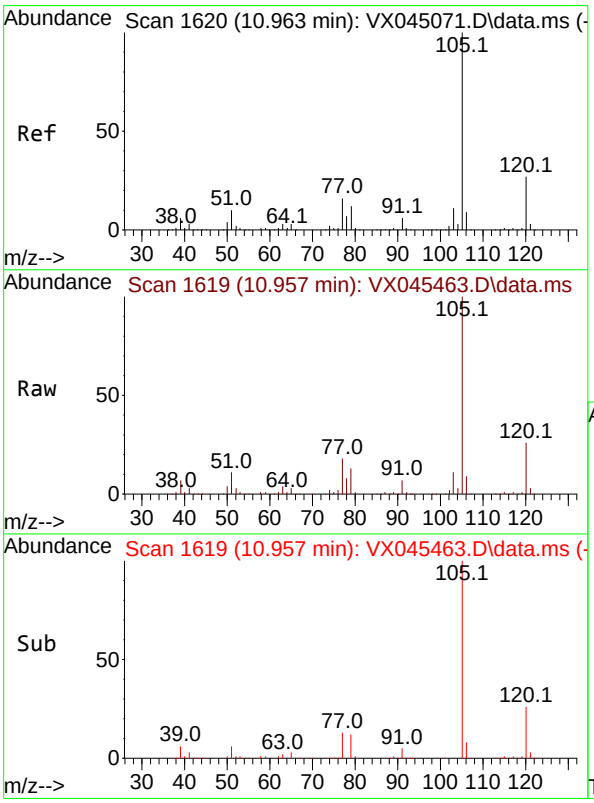
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:152 Resp: 56894

Ion	Ratio	Lower	Upper
152	100		
115	95.4	44.2	132.6
150	177.1	0.0	349.0

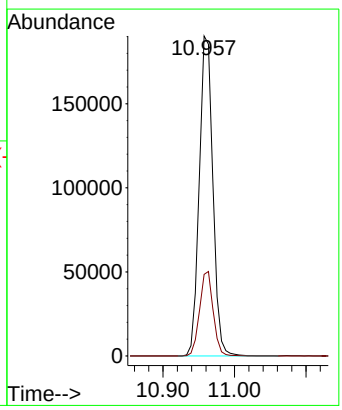


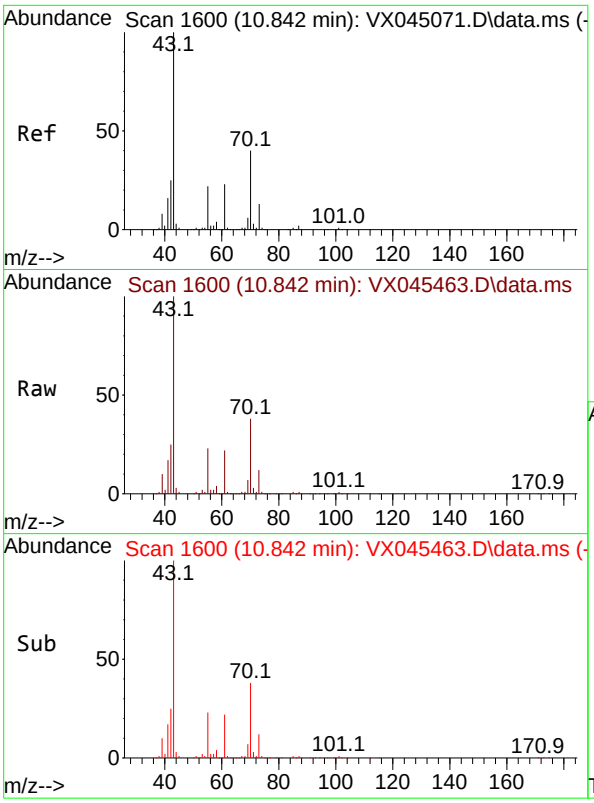


#73
Isopropylbenzene
Concen: 56.703 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:105 Resp: 251806

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5



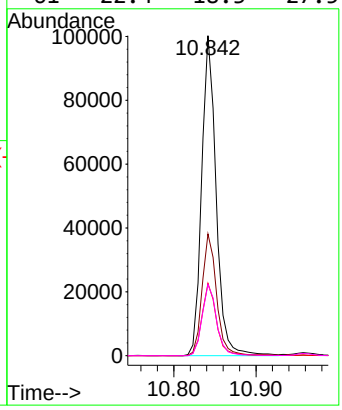


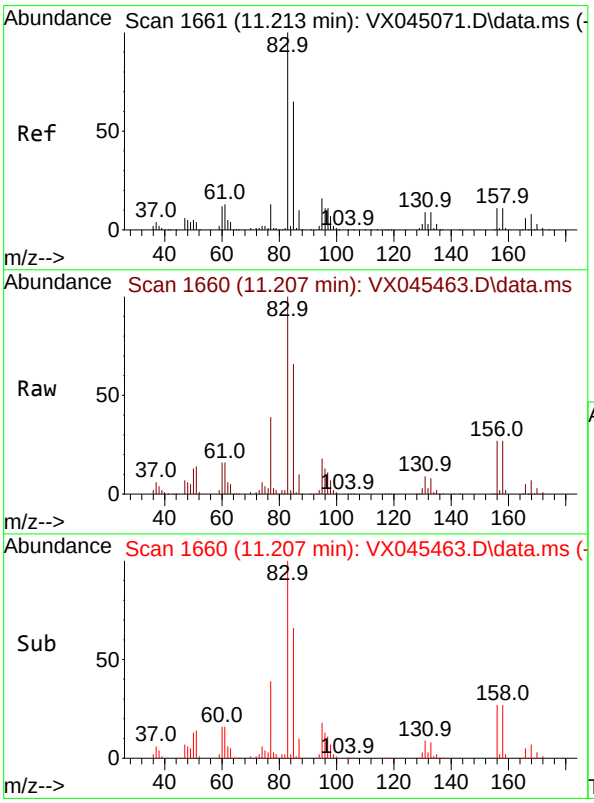
#74
N-amyl acetate
Concen: 58.866 ug/l
RT: 10.842 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 43 Resp: 122662

Ion	Ratio	Lower	Upper
43	100		
70	38.3	31.8	47.6
55	22.6	18.3	27.5
61	22.4	18.3	27.5

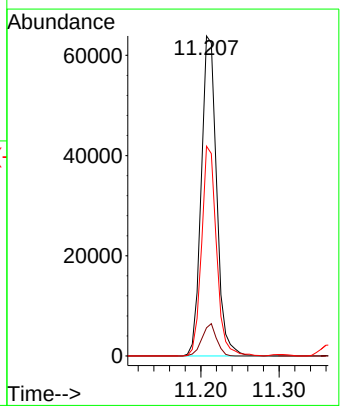


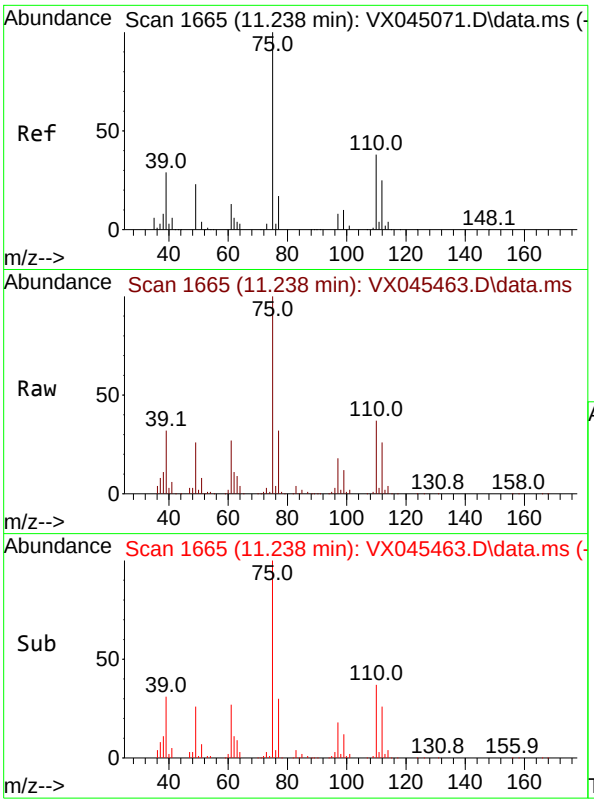


#75
1,1,2,2-Tetrachloroethane
Concen: 53.329 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 83 Resp: 86905

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.4
85	63.7	31.7	95.1



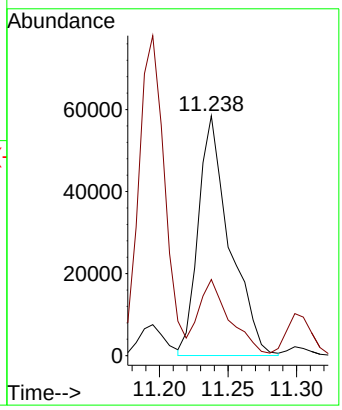


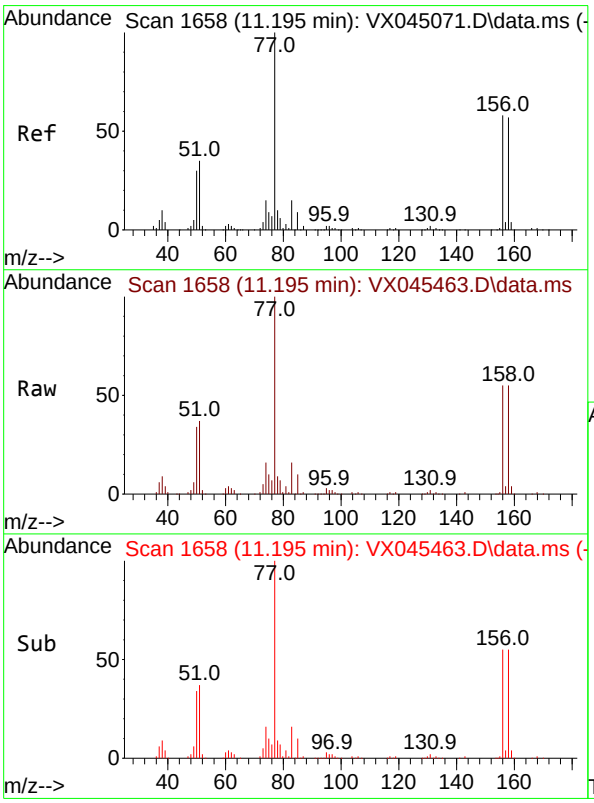
#76
1,2,3-Trichloropropane
Concen: 70.295 ug/l
RT: 11.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 75 Resp: 93085

Ion	Ratio	Lower	Upper
75	100		
77	31.8	20.7	62.1

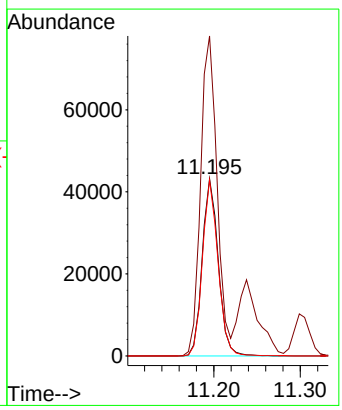


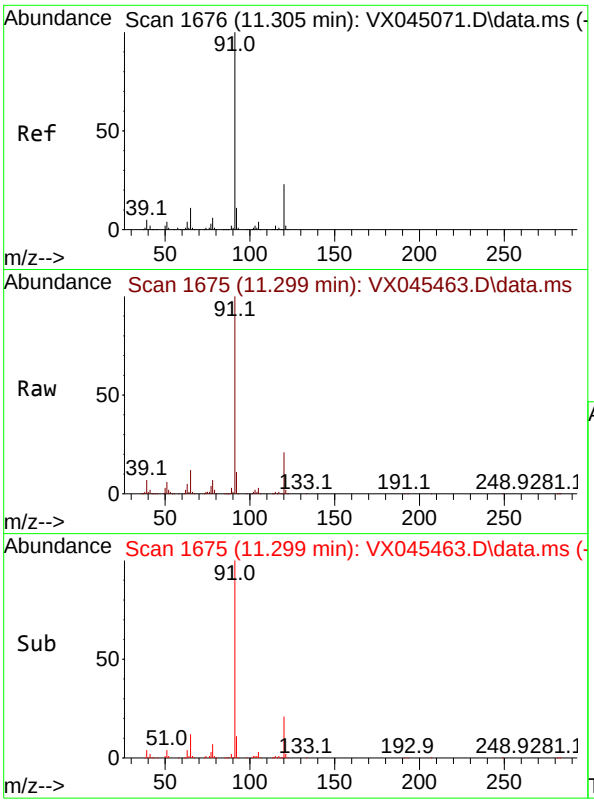


#77
Bromobenzene
Concen: 53.075 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:156 Resp: 55610

Ion	Ratio	Lower	Upper
156	100		
77	184.8	85.8	257.4
158	96.9	48.4	145.2



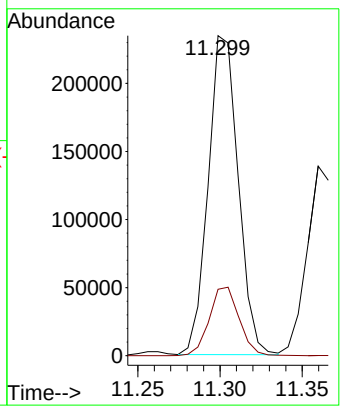


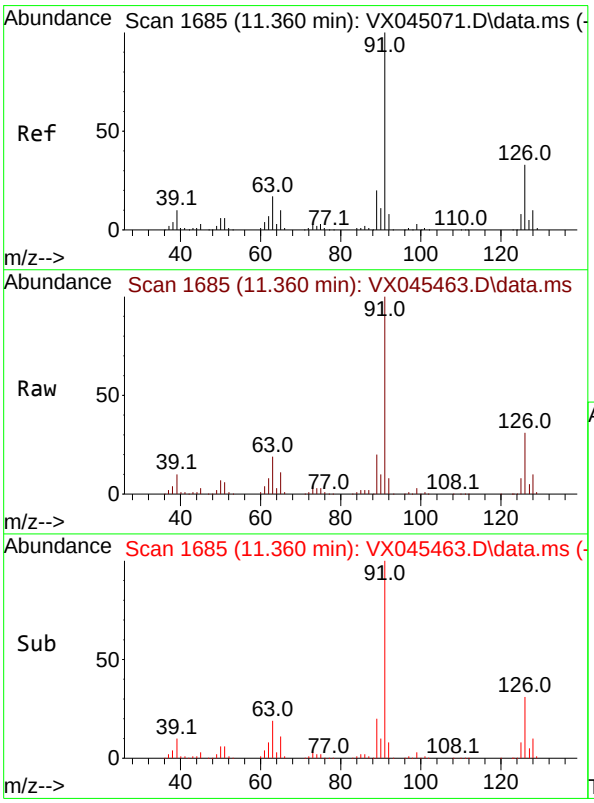
#78
n-propylbenzene
Concen: 59.305 ug/l
RT: 11.299 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 91 Resp: 297497

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6

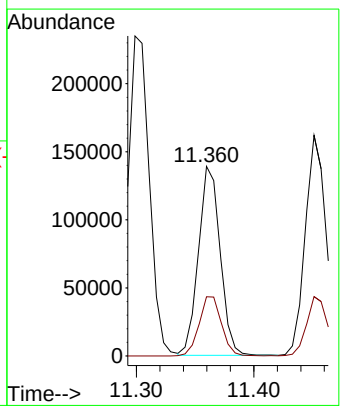


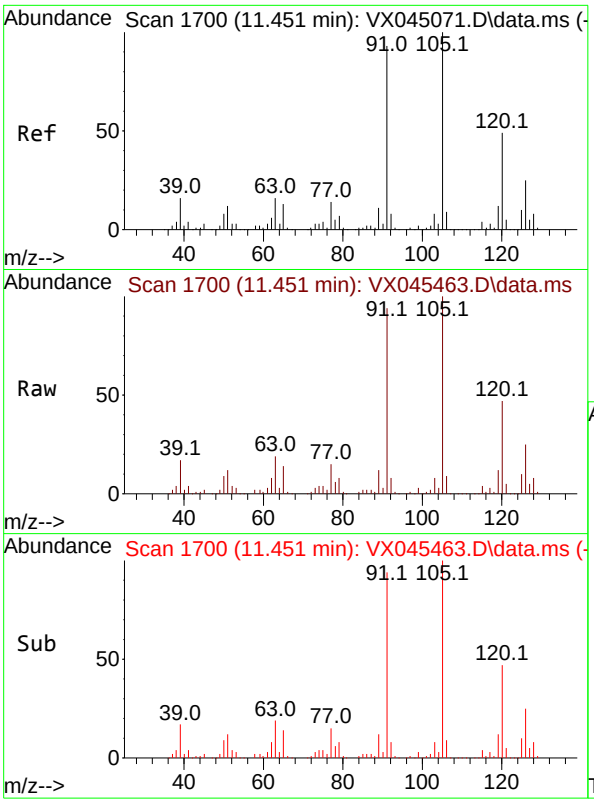


#79
2-Chlorotoluene
Concen: 55.818 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 91 Resp: 178326

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.4	49.4



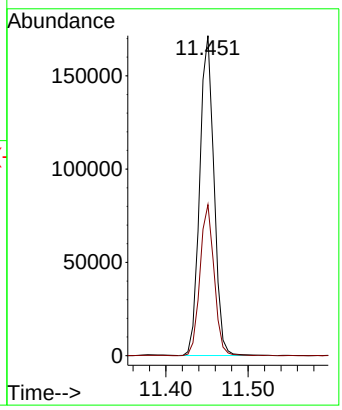


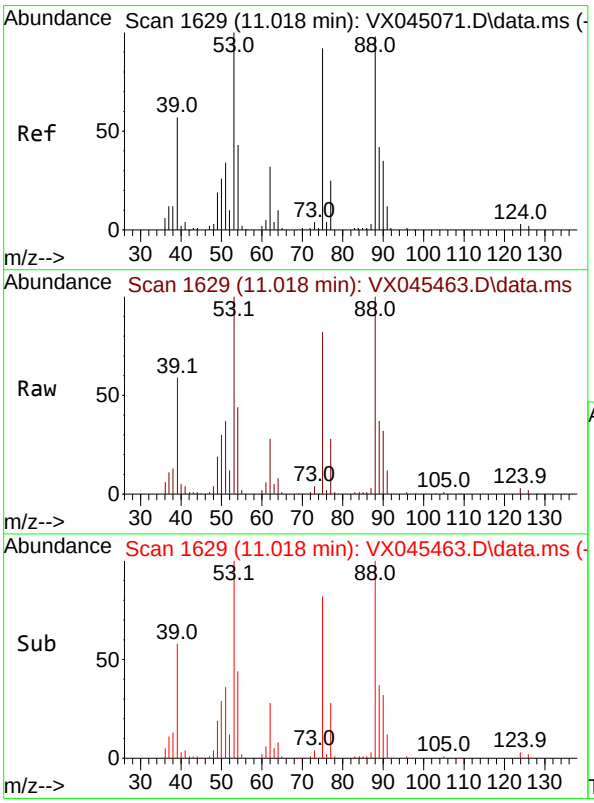
#80
1,3,5-Trimethylbenzene
Concen: 57.671 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:105 Resp: 207078

Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.2

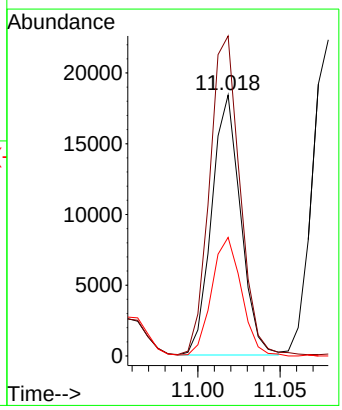


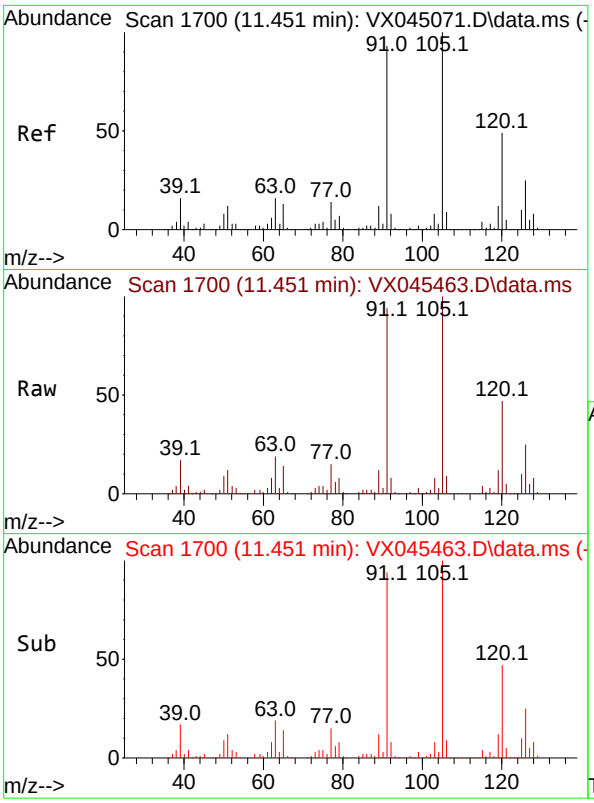


#81
trans-1,4-Dichloro-2-butene
Concen: 58.039 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 75 Resp: 22458

Ion	Ratio	Lower	Upper
75	100		
53	128.5	88.5	132.7
89	47.0	36.2	54.4



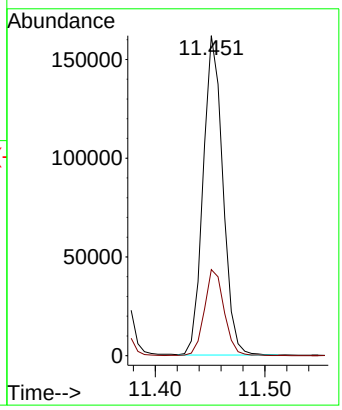


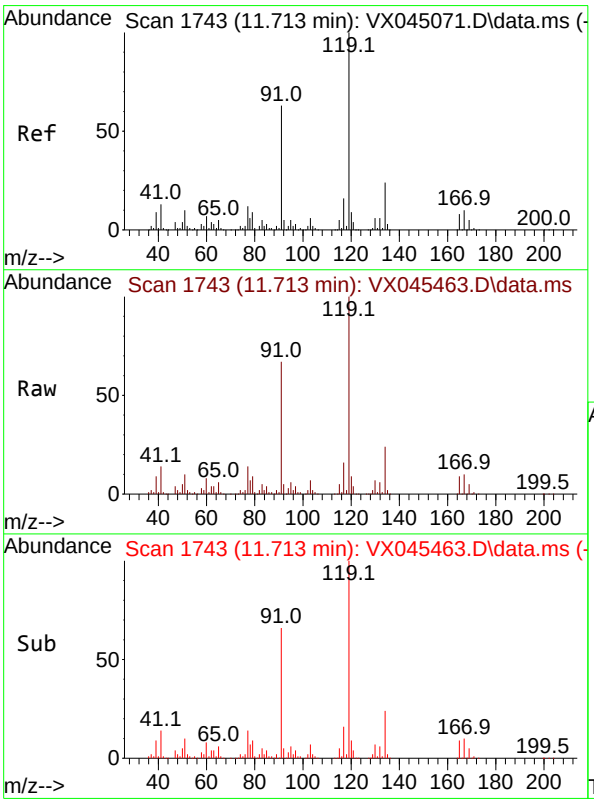
#82
4-Chlorotoluene
Concen: 57.976 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 91 Resp: 201866

Ion	Ratio	Lower	Upper
91	100		
126	27.2	14.1	42.4

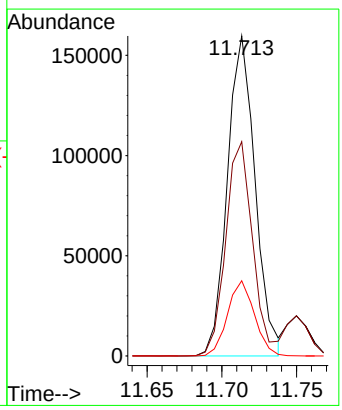


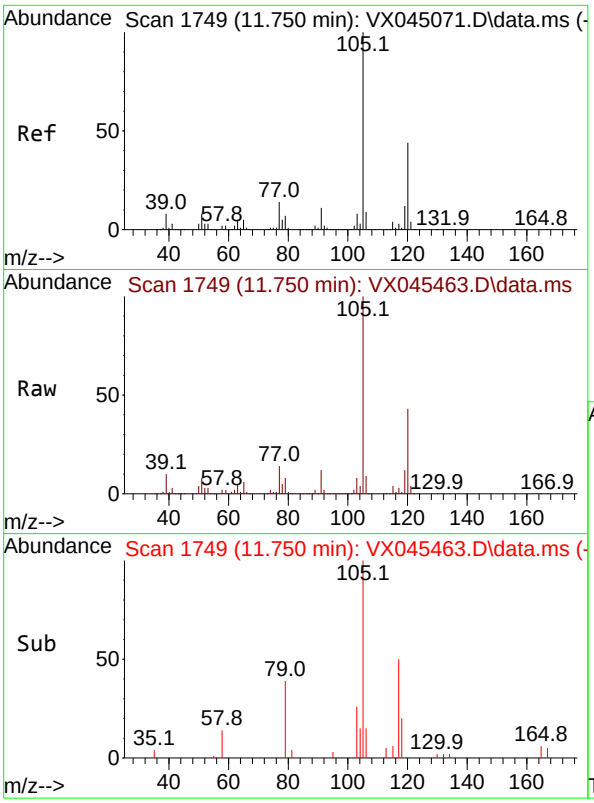


#83
tert-Butylbenzene
Concen: 55.895 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:119 Resp: 206216

Ion	Ratio	Lower	Upper
119	100		
91	65.3	30.7	92.1
134	22.8	11.7	35.0



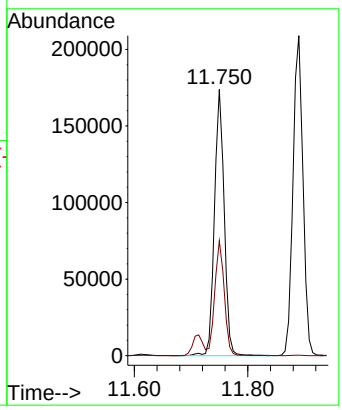


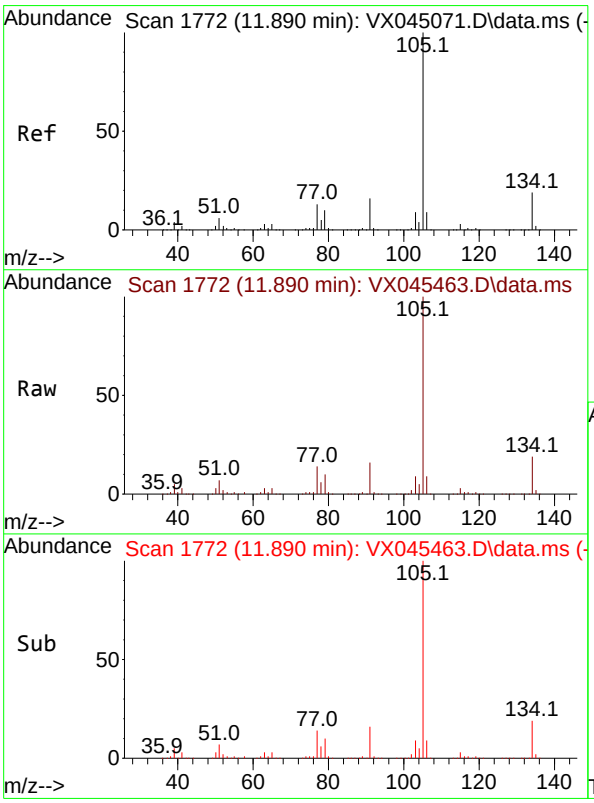
#84
1,2,4-Trimethylbenzene
Concen: 57.494 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:105 Resp: 207721

Ion	Ratio	Lower	Upper
105	100		
120	42.4	22.1	66.1

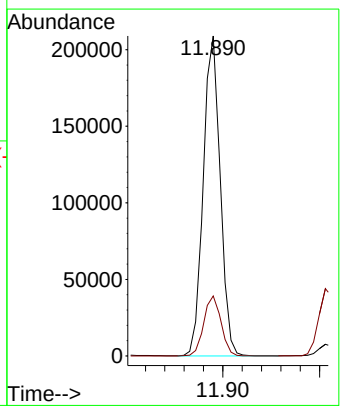


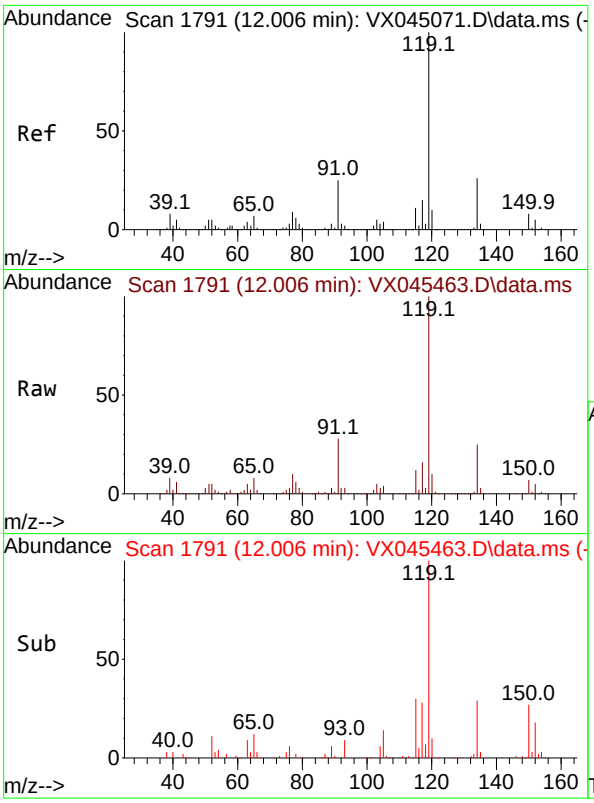


#85
sec-Butylbenzene
Concen: 57.657 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:105 Resp: 254806

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.4



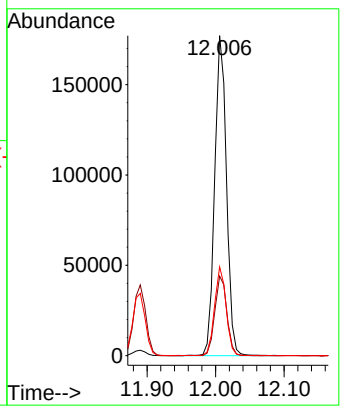


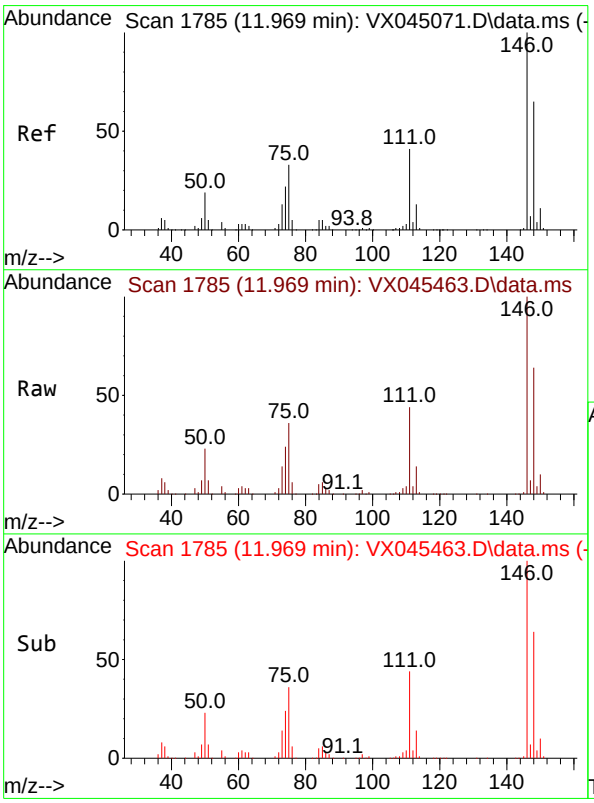
#86
p-Isopropyltoluene
Concen: 59.073 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:119 Resp: 210975

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.9	38.6
91	27.2	12.7	38.0

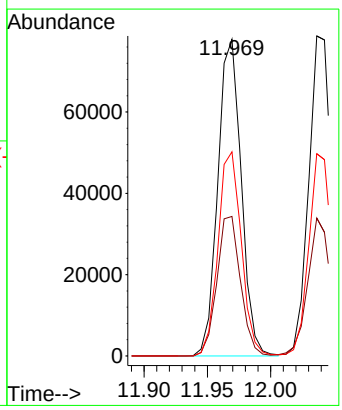


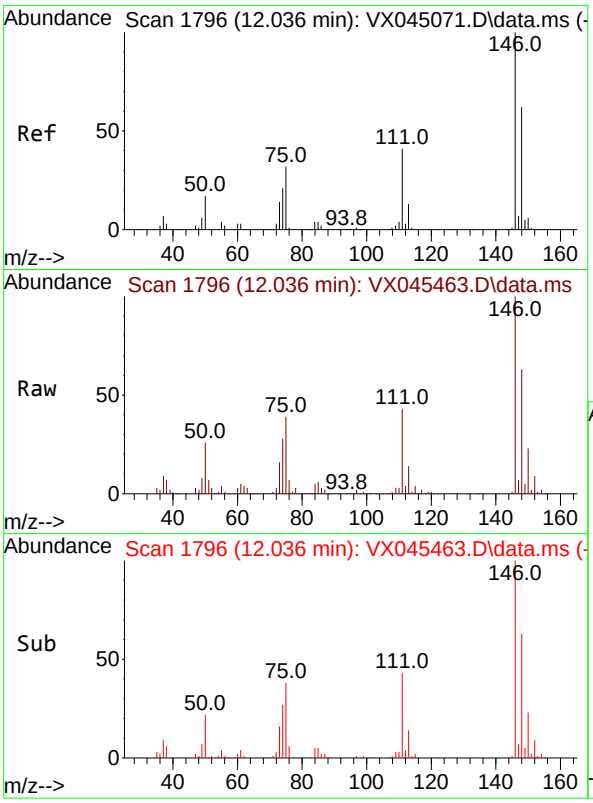


#87
1,3-Dichlorobenzene
Concen: 53.550 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:146 Resp: 100092

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.1	63.4
148	64.2	31.9	95.7



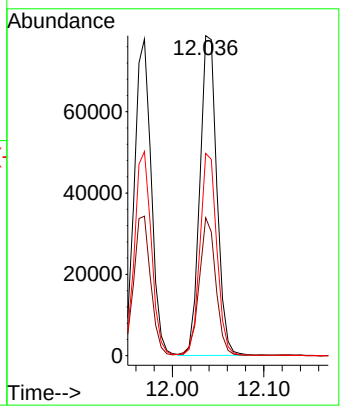


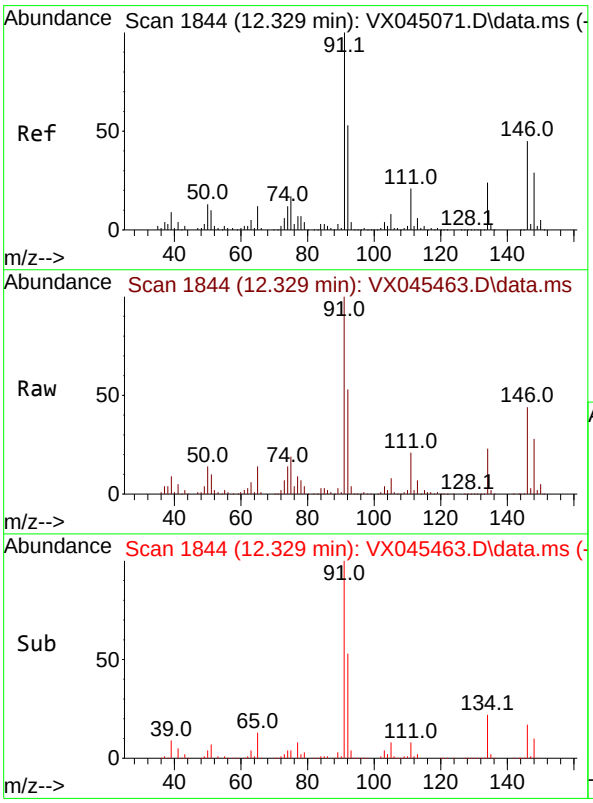
#88
1,4-Dichlorobenzene
Concen: 53.457 ug/l
RT: 12.036 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:146 Resp: 101089

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	62.9	31.9	95.9

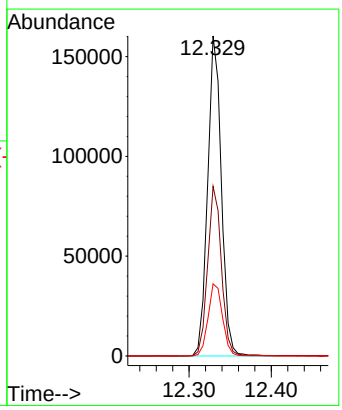


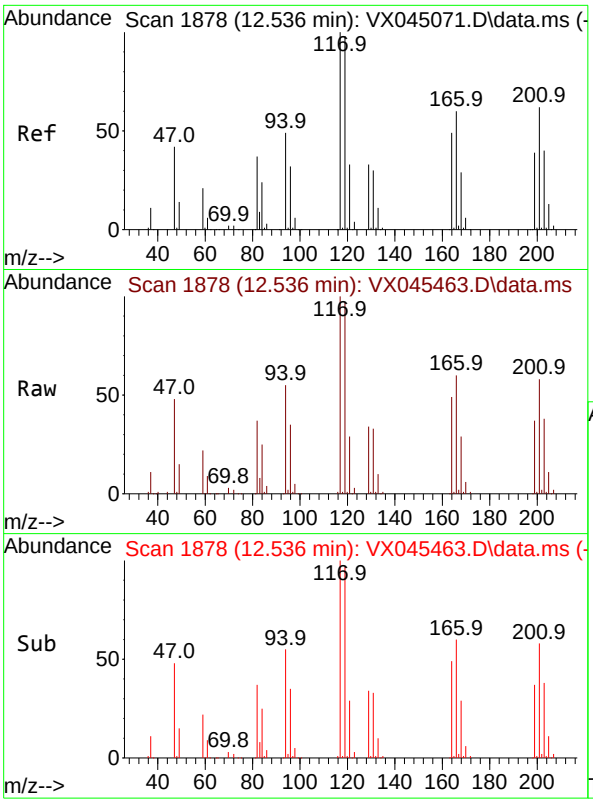


#89
n-Butylbenzene
Concen: 60.389 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion: 91 Resp: 185757

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.0
134	23.7	12.2	36.6



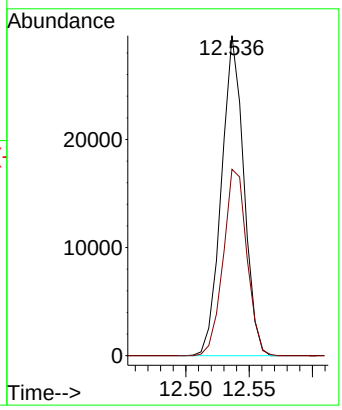


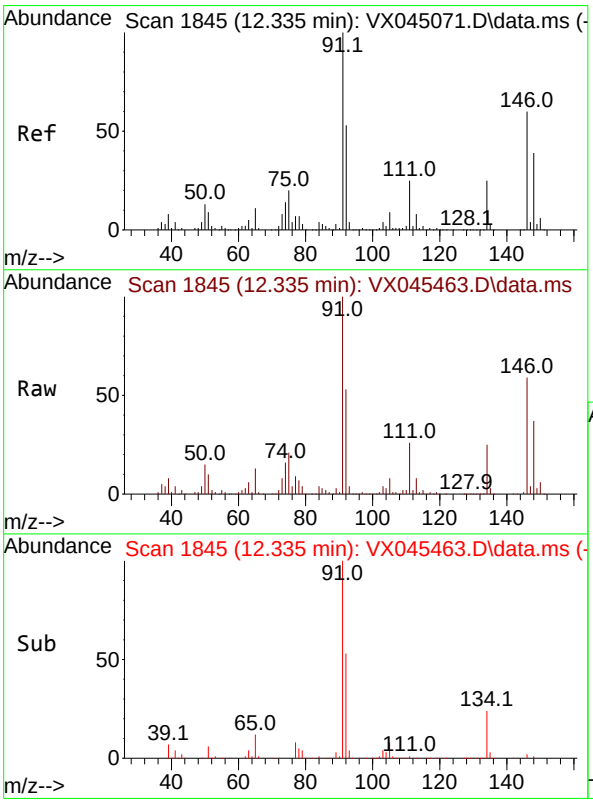
#90
Hexachloroethane
Concen: 56.286 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:117 Resp: 36360

Ion	Ratio	Lower	Upper
117	100		
201	61.5	31.9	95.9

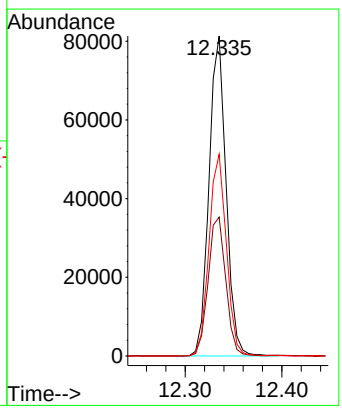


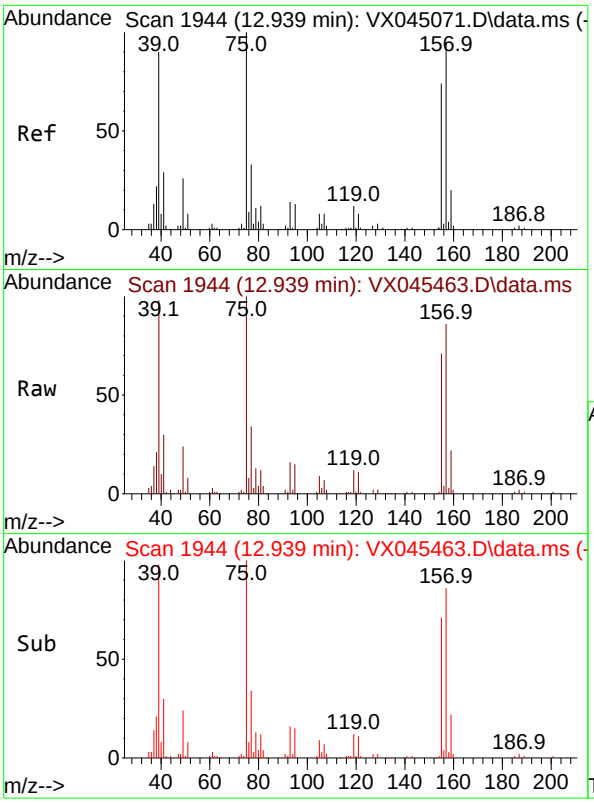


#91
1,2-Dichlorobenzene
Concen: 53.249 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:146 Resp: 99842

Ion	Ratio	Lower	Upper
146	100		
111	45.0	21.6	65.0
148	64.2	31.9	95.9



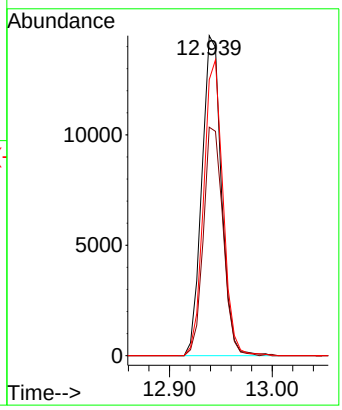


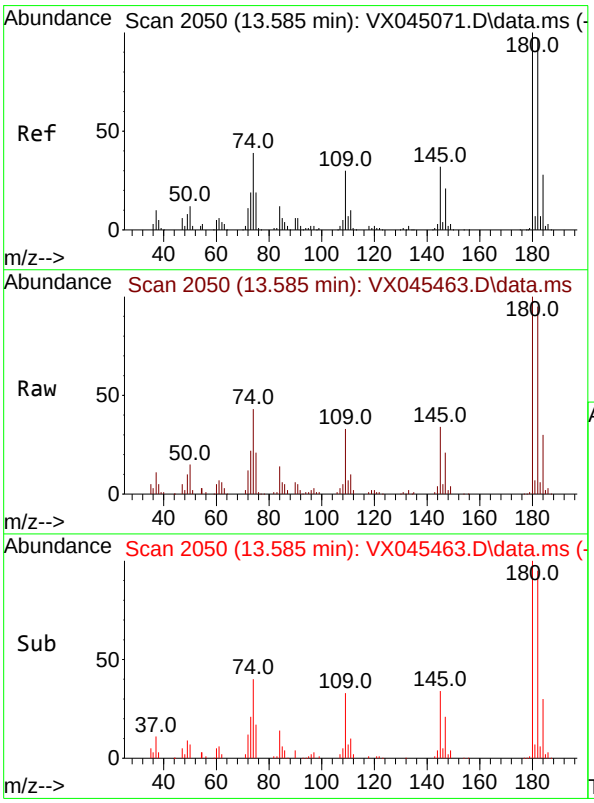
#92
1,2-Dibromo-3-Chloropropane
Concen: 60.670 ug/l
RT: 12.939 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion: 75 Resp: 19261

Ion	Ratio	Lower	Upper
75	100		
155	71.4	39.6	118.7
157	90.8	51.1	153.4

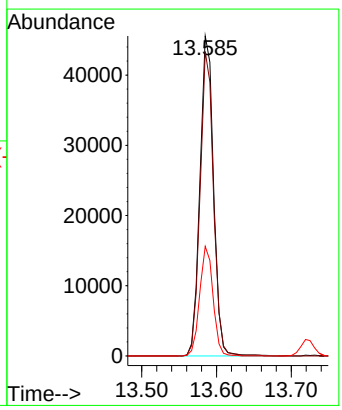


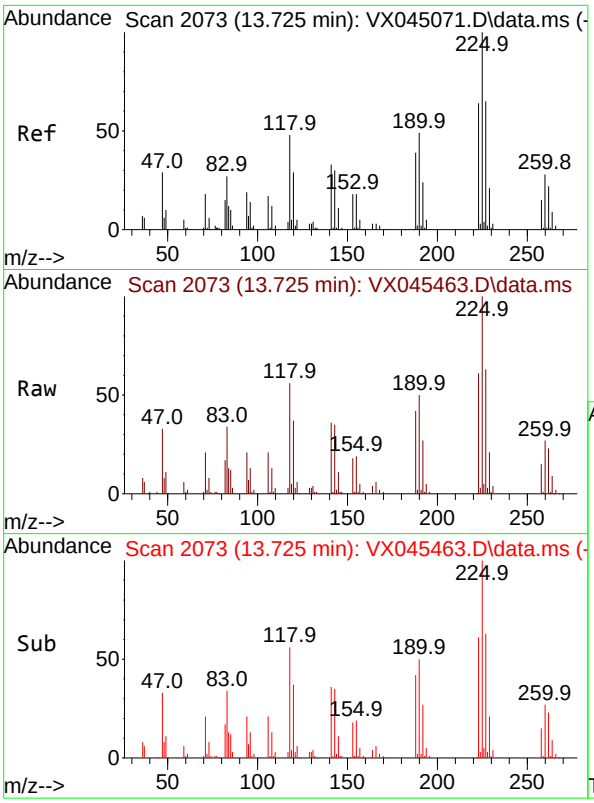


#93
1,2,4-Trichlorobenzene
Concen: 53.924 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:180 Resp: 57572

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.3	141.9
145	33.6	16.3	48.9



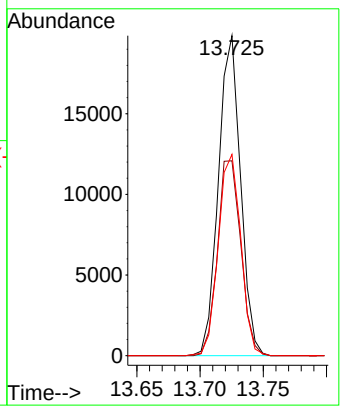


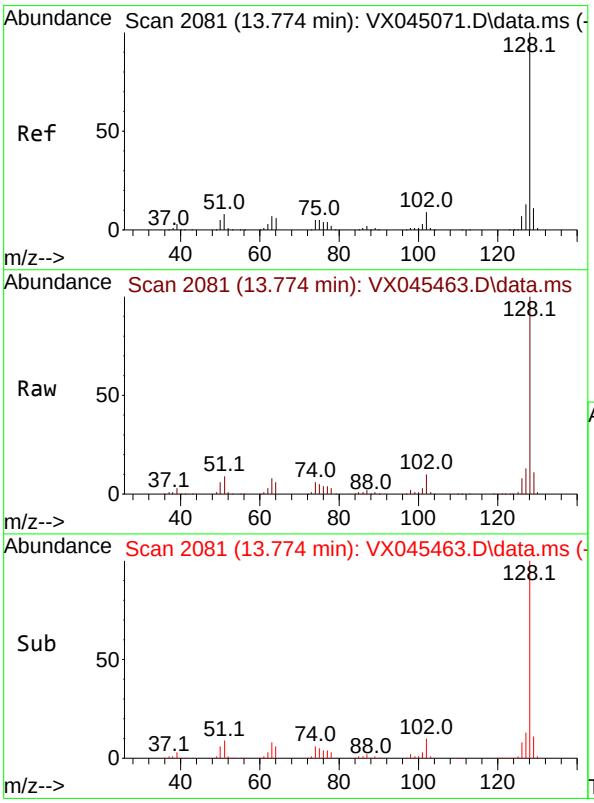
#94
Hexachlorobutadiene
Concen: 55.056 ug/l
RT: 13.725 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:225 Resp: 24099

Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.9	95.7
227	64.0	31.4	94.0

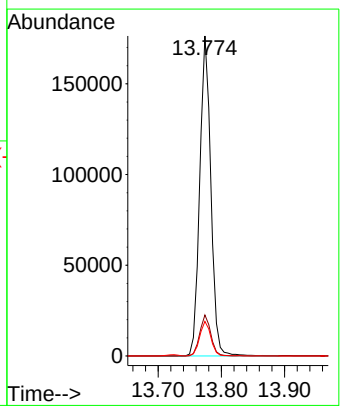


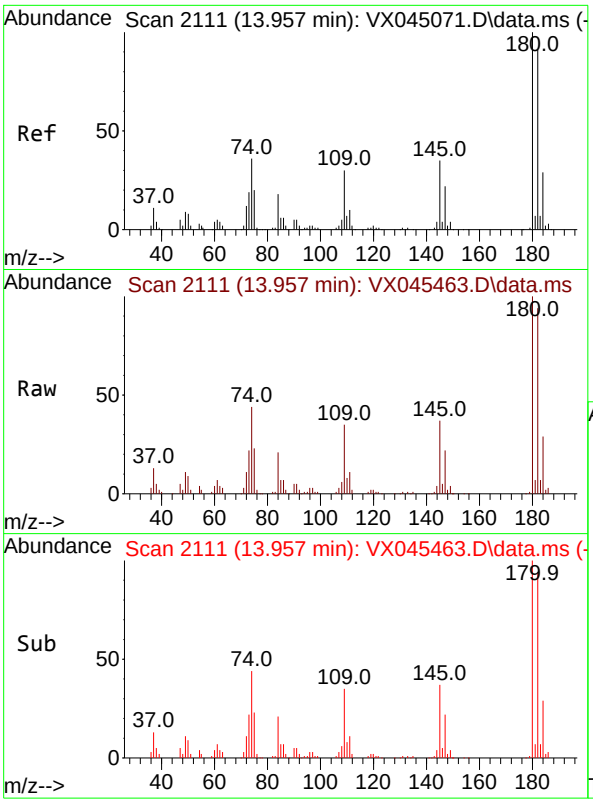


#95
Naphthalene
Concen: 52.653 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Tgt Ion:128 Resp: 215982

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.8	8.7	13.1



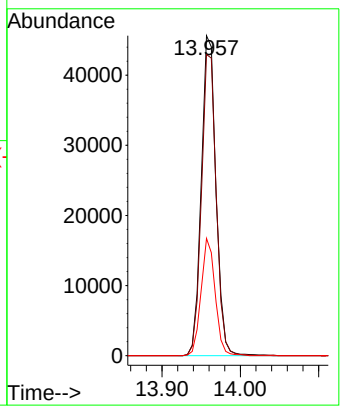


#96
1,2,3-Trichlorobenzene
Concen: 52.637 ug/l
RT: 13.957 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045463.D
Acq: 26 Mar 2025 12:33

Instrument :
MSVOA_X
ClientSampleId :
RW09-MW01S-20250320MSD

Tgt Ion:180 Resp: 59286

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.5	142.6
145	35.2	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	79755	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	146350	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	128351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58769	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68108	53.687	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.380%			
35) Dibromofluoromethane	5.379	113	48275	49.330	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.660%			
50) Toluene-d8	8.647	98	164889	46.477	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.960%			
62) 4-Bromofluorobenzene	11.079	95	60102	51.123	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	46532	46.350	ug/l	98
3) Chloromethane	1.301	50	50060	40.746	ug/l	96
4) Vinyl Chloride	1.374	62	49466	40.586	ug/l	98
5) Bromomethane	1.593	94	22020	45.959	ug/l	96
6) Chloroethane	1.660	64	24283	43.195	ug/l	97
7) Trichlorofluoromethane	1.867	101	75513	46.802	ug/l	99
8) Diethyl Ether	2.136	74	28463	45.102	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.313	101	50794	54.797	ug/l	98
10) Methyl Iodide	2.441	142	57932	50.010	ug/l	93
11) Tert butyl alcohol	2.995	59	60816	253.087	ug/l	98
12) 1,1-Dichloroethene	2.306	96	46906	47.862	ug/l	91
13) Acrolein	2.239	56	77953	280.632	ug/l	99
14) Allyl chloride	2.654	41	91634	52.528	ug/l	94
15) Acrylonitrile	3.068	53	175382	272.322	ug/l	99
16) Acetone	2.386	43	165202	280.669	ug/l	95
17) Carbon Disulfide	2.495	76	89593	34.324	ug/l	99
18) Methyl Acetate	2.709	43	101259	71.511	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	177897	54.106	ug/l	96
20) Methylene Chloride	2.782	84	57196	49.055	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	46380	47.904	ug/l	95
22) Diisopropyl ether	3.763	45	190132	53.591	ug/l	97
23) Vinyl Acetate	3.721	43	761827	257.312	ug/l	100
24) 1,1-Dichloroethane	3.605	63	104747	52.681	ug/l	100
25) 2-Butanone	4.562	43	256278	289.256	ug/l	98
26) 2,2-Dichloropropane	4.465	77	68798	73.768	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	60400	50.536	ug/l	91
28) Bromochloromethane	4.891	49	50738	53.536	ug/l	98
29) Tetrahydrofuran	5.007	42	157811	265.234	ug/l	100
30) Chloroform	5.086	83	109031	55.188	ug/l	97
31) Cyclohexane	5.464	56	79780	46.223	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	88281	55.326	ug/l	98
36) 1,1-Dichloropropene	5.684	75	65083	48.495	ug/l	99
37) Ethyl Acetate	4.715	43	87939	50.852	ug/l	98
38) Carbon Tetrachloride	5.672	117	72318	53.077	ug/l	99
39) Methylcyclohexane	7.373	83	78668	48.920	ug/l	95
40) Benzene	6.031	78	210492	49.669	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	53883	57.624	ug/l		99
42) 1,2-Dichloroethane	6.080	62	89136	58.409	ug/l		96
43) Isopropyl Acetate	6.342	43	139297	54.473	ug/l		99
44) Trichloroethene	7.123	130	53208	53.470	ug/l		97
45) 1,2-Dichloropropane	7.427	63	55967	51.364	ug/l		96
46) Dibromomethane	7.580	93	42626	55.348	ug/l		95
47) Bromodichloromethane	7.818	83	85047	56.299	ug/l		98
48) Methyl methacrylate	7.690	41	75585	58.917	ug/l		93
49) 1,4-Dioxane	7.665	88	31254	1154.916	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	495132	288.370	ug/l		99
52) Toluene	8.714	92	128286	51.594	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	71333	56.484	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	81244	55.168	ug/l		91
55) 1,1,2-Trichloroethane	9.153	97	54781	53.517	ug/l		99
56) Ethyl methacrylate	9.116	69	88064	56.598	ug/l		92
57) 1,3-Dichloropropane	9.305	76	94297	53.232	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.171	63	257	0.339	ug/l	#	48
59) 2-Hexanone	9.433	43	369120	296.710	ug/l		98
60) Dibromochloromethane	9.519	129	60161	56.210	ug/l		99
61) 1,2-Dibromoethane	9.610	107	54681	53.511	ug/l		98
64) Tetrachloroethene	9.269	164	40543	49.320	ug/l		97
65) Chlorobenzene	10.079	112	140765	51.830	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	48742	53.892	ug/l		97
67) Ethyl Benzene	10.189	91	251811	53.212	ug/l		98
68) m/p-Xylenes	10.299	106	179991	103.899	ug/l		94
69) o-Xylene	10.640	106	90251	51.655	ug/l		96
70) Styrene	10.652	104	152690	54.010	ug/l		97
71) Bromoform	10.799	173	37444	54.901	ug/l	#	99
73) Isopropylbenzene	10.957	105	237533	51.783	ug/l		100
74) N-amyl acetate	10.841	43	114520	53.205	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	87521	51.994	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	91074	66.582	ug/l		88
77) Bromobenzene	11.195	156	53862	49.767	ug/l		95
78) n-propylbenzene	11.305	91	274062	52.890	ug/l		98
79) 2-Chlorotoluene	11.360	91	169636	51.404	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	196564	52.996	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	20862	52.194	ug/l	#	82
82) 4-Chlorotoluene	11.451	91	190526	52.974	ug/l		98
83) tert-Butylbenzene	11.713	119	198359	52.050	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	198088	53.078	ug/l		96
85) sec-Butylbenzene	11.890	105	244804	53.627	ug/l		99
86) p-Isopropyltoluene	12.006	119	197358	53.497	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	97338	50.415	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	97630	49.981	ug/l		98
89) n-Butylbenzene	12.329	91	172306	54.229	ug/l		99
90) Hexachloroethane	12.536	117	35355	52.984	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	101203	52.253	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19915	60.728	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	57177	51.846	ug/l		99
94) Hexachlorobutadiene	13.725	225	23184	51.276	ug/l		99
95) Naphthalene	13.774	128	219209	51.735	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	59466	51.113	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

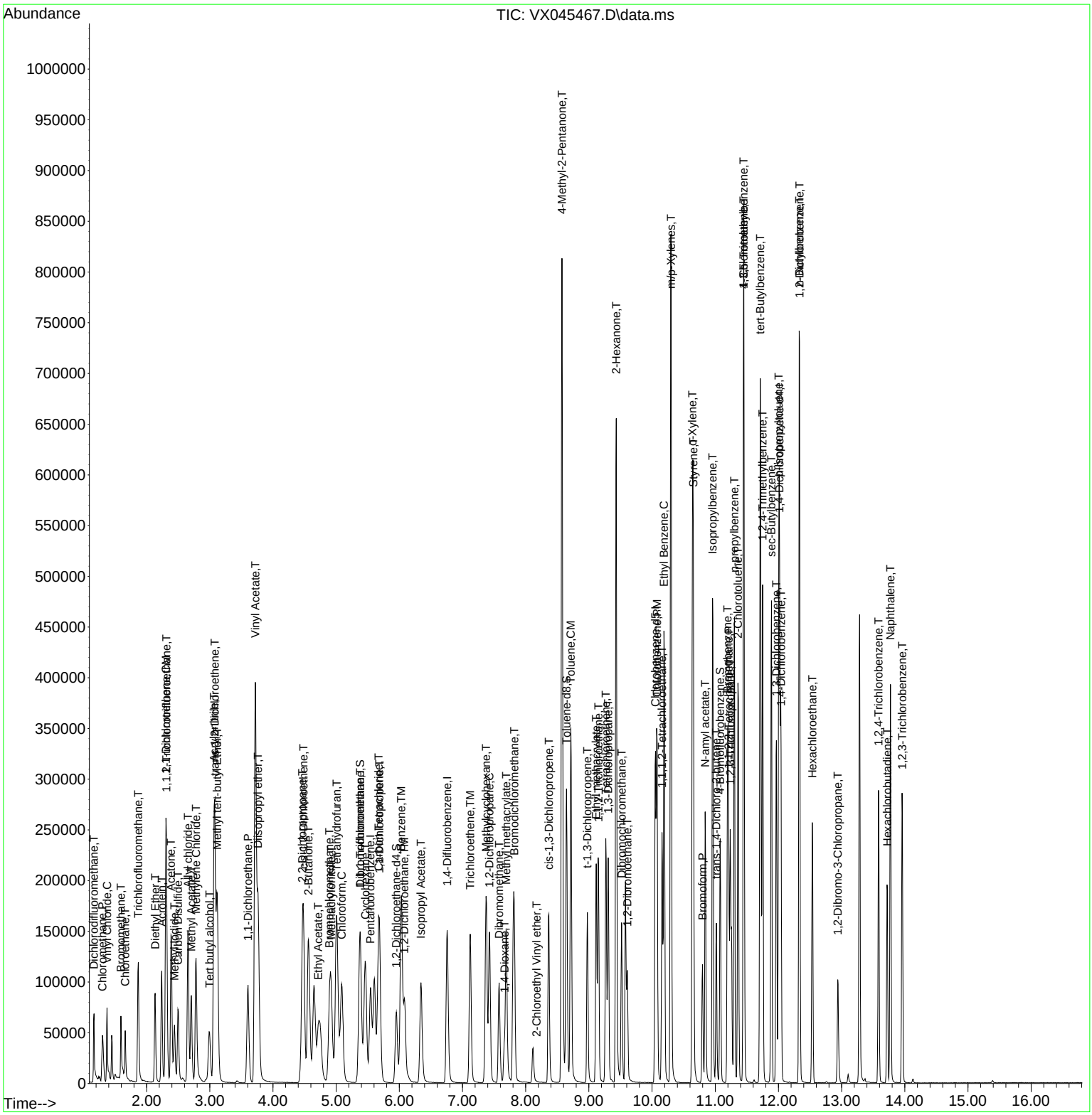
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

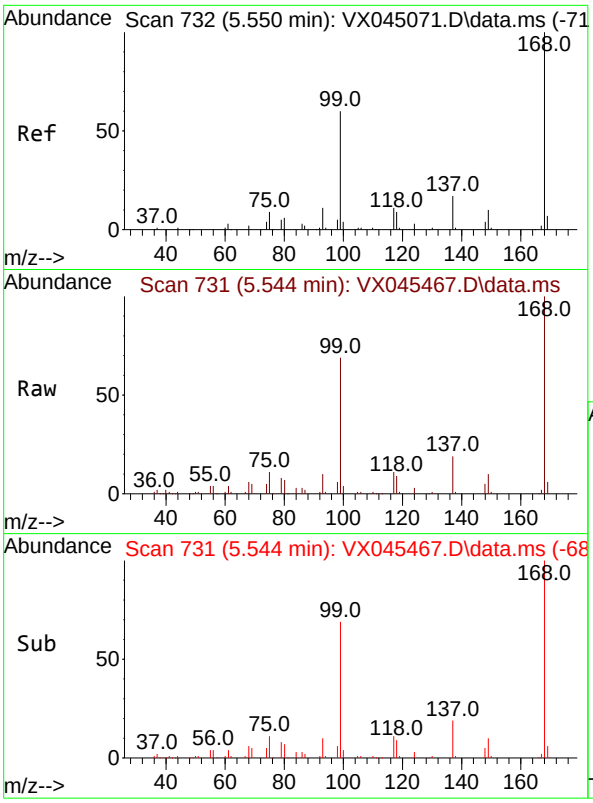
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045467.D
Acq On : 26 Mar 2025 14:06
Operator : JC/MD
Sample : Q1629-04MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Quant Time: Mar 27 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



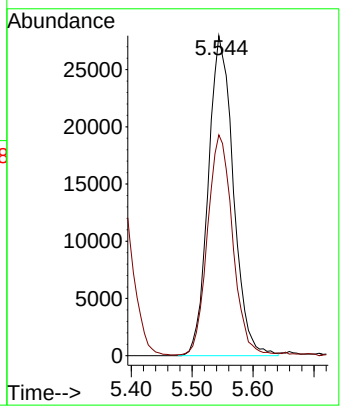


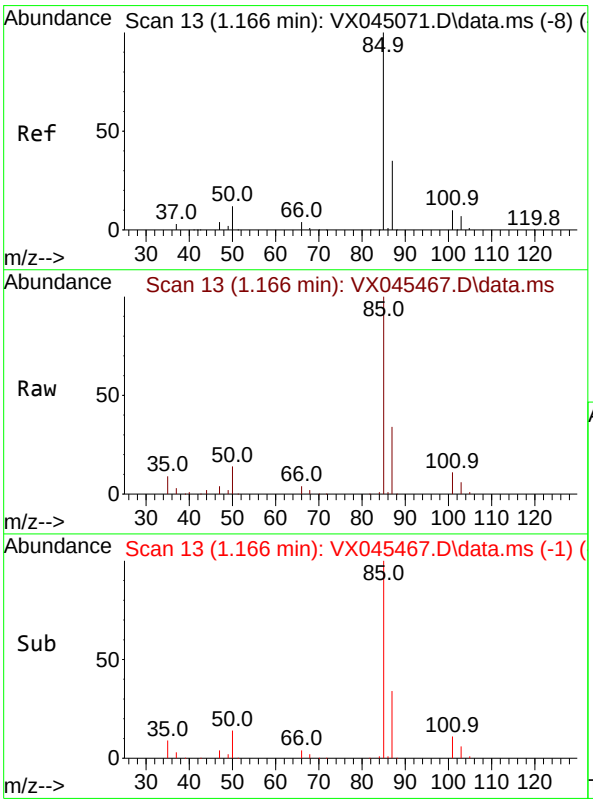
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:168 Resp: 79755

Ion	Ratio	Lower	Upper
168	100		
99	68.7	48.2	72.4

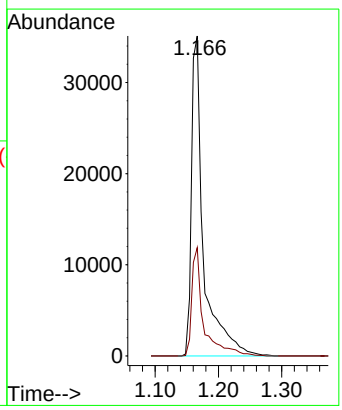


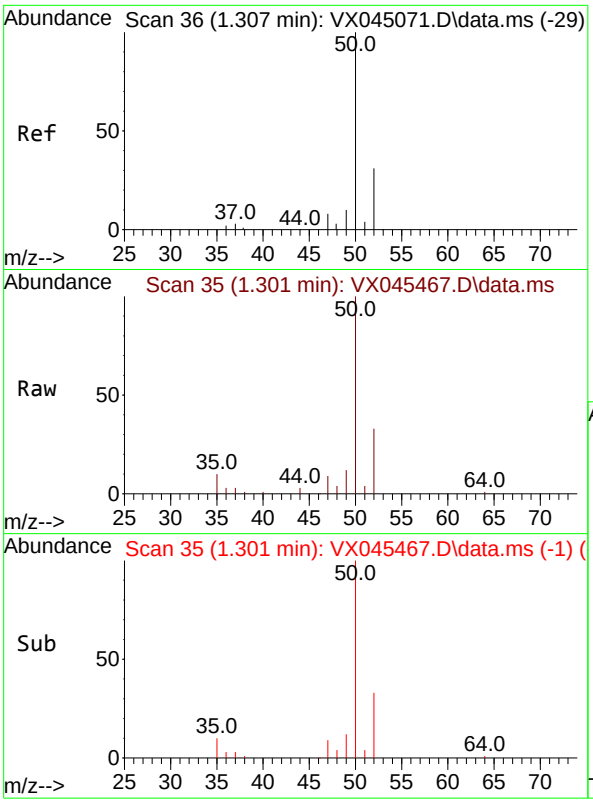


#2
Dichlorodifluoromethane
Concen: 46.350 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 85 Resp: 46532

Ion	Ratio	Lower	Upper
85	100		
87	33.8	17.4	52.3



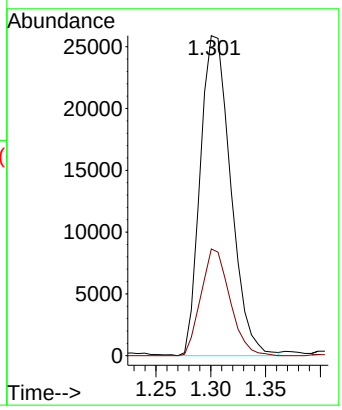


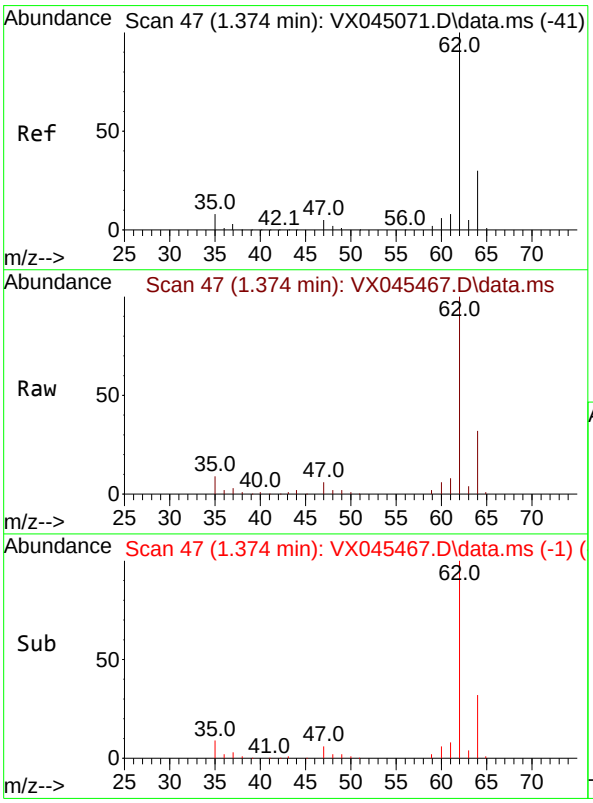
#3
Chloromethane
Concen: 40.746 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 50 Resp: 50060

Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.4

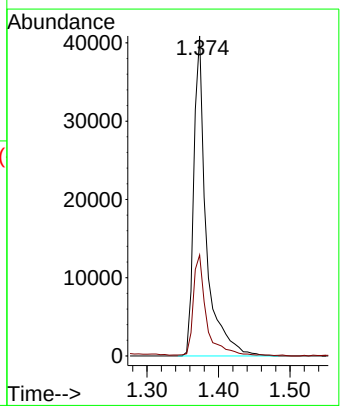


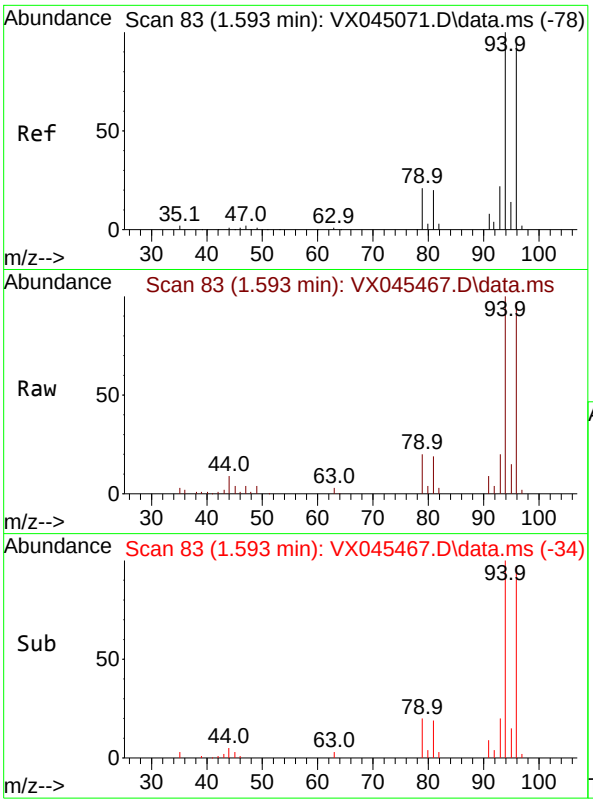


#4
Vinyl Chloride
Concen: 40.586 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 62 Resp: 49466

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.3	36.5



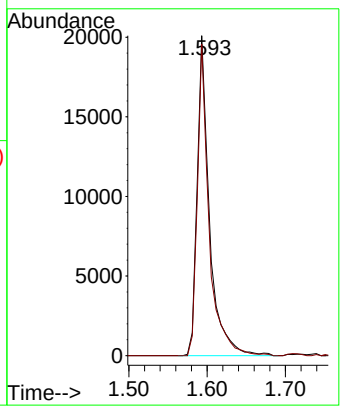


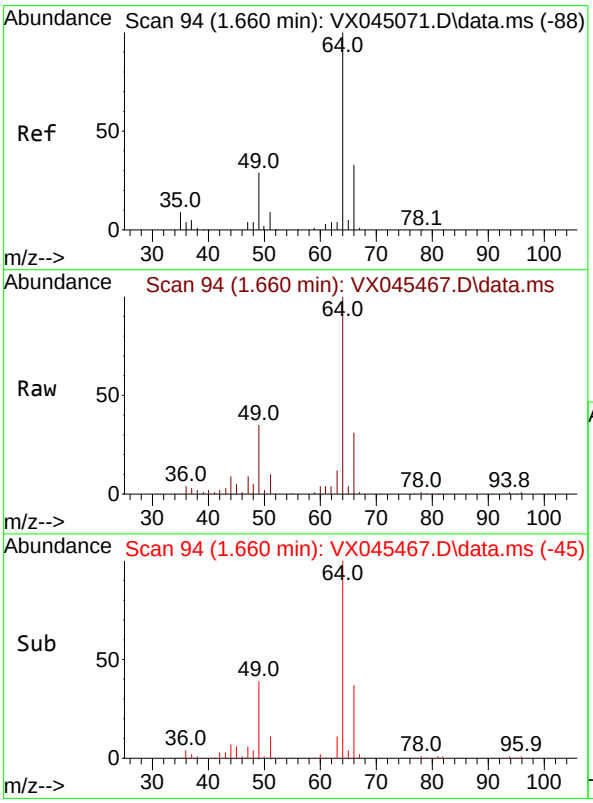
#5
Bromomethane
Concen: 45.959 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 94 Resp: 22020

Ion	Ratio	Lower	Upper
94	100		
96	97.4	75.0	112.4

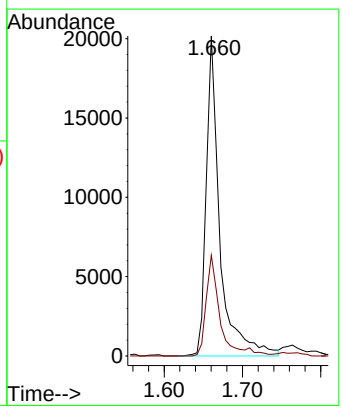


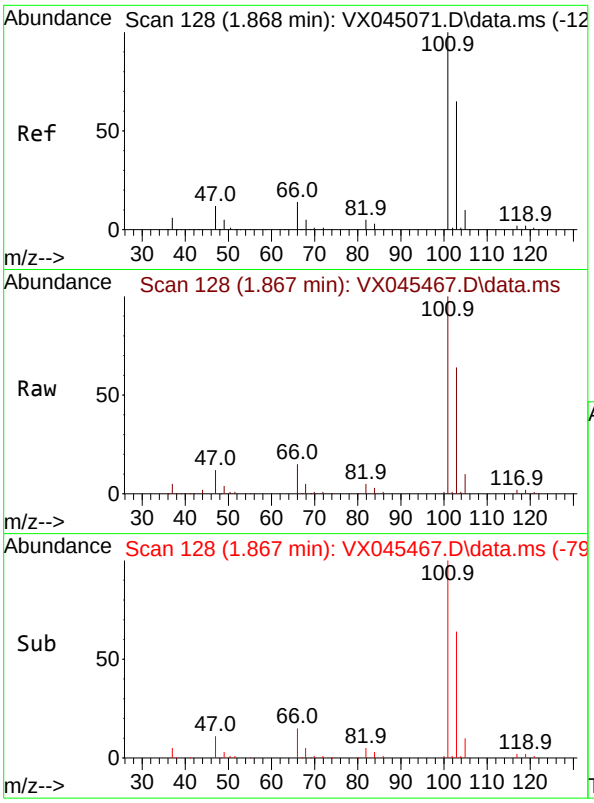


#6
Chloroethane
Concen: 43.195 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 64 Resp: 24283

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.7	40.1



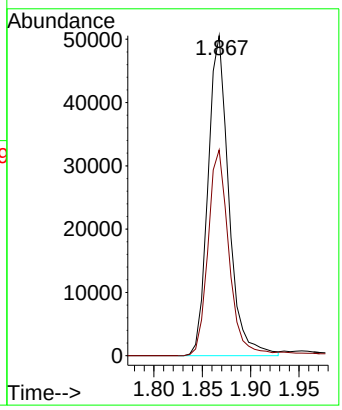


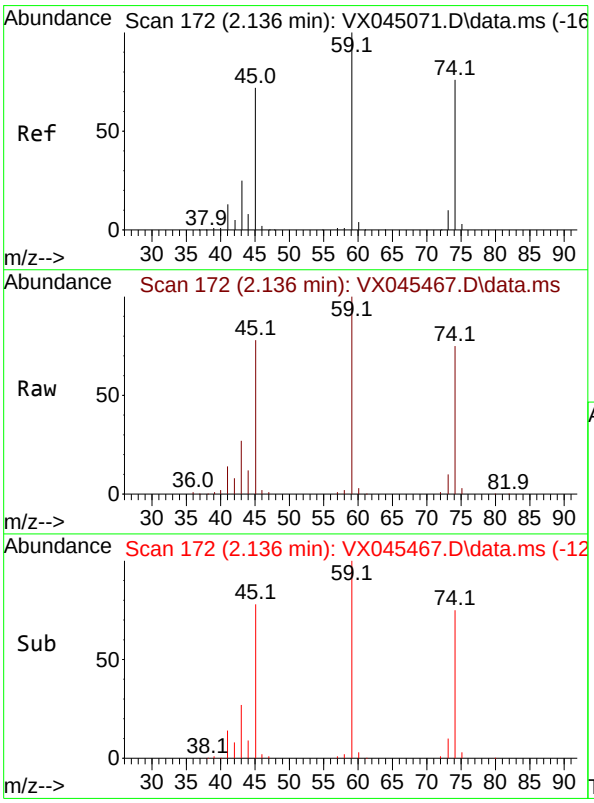
#7
Trichlorofluoromethane
Concen: 46.802 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:101 Resp: 75513

Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.1	78.1

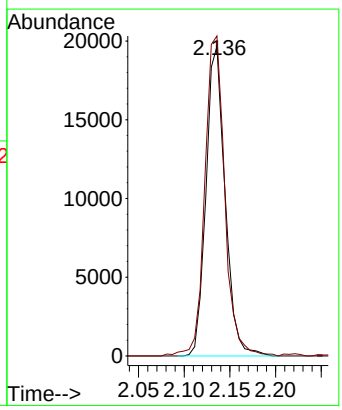


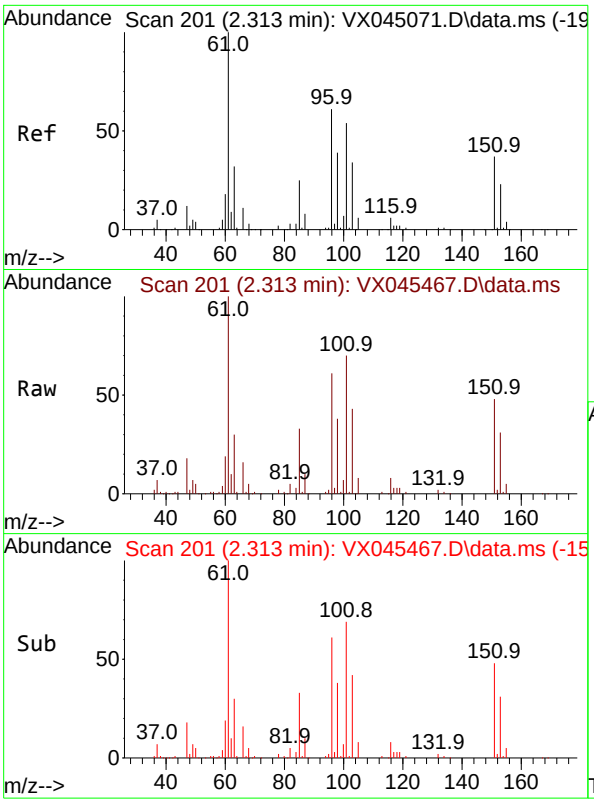


#8
Diethyl Ether
Concen: 45.102 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 74 Resp: 28463

Ion	Ratio	Lower	Upper
74	100		
45	107.8	51.5	154.5



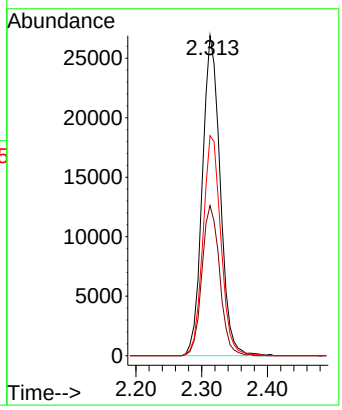


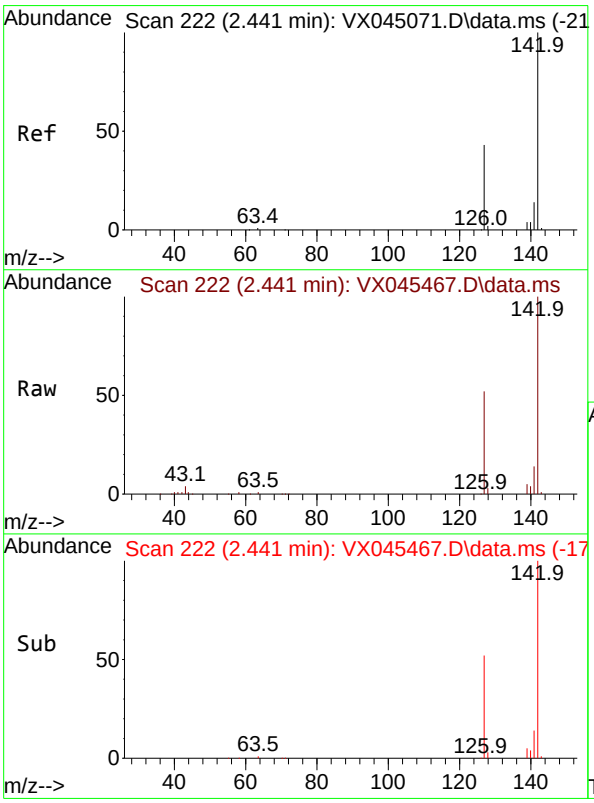
#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.797 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:101 Resp: 50794

Ion	Ratio	Lower	Upper
101	100		
85	46.6	36.2	54.4
151	69.0	56.4	84.6

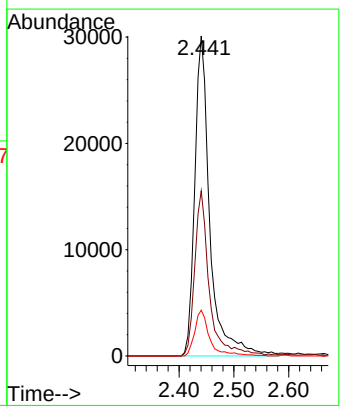


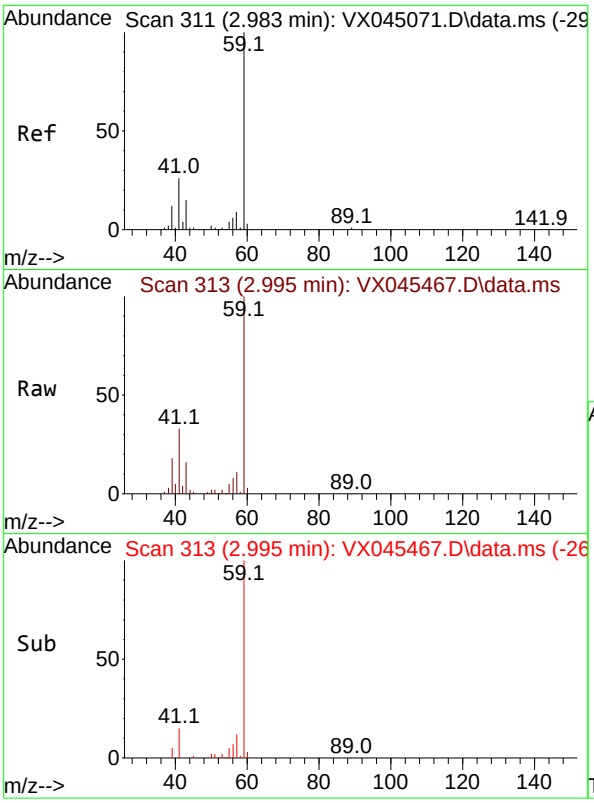


#10
Methyl Iodide
Concen: 50.010 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:142 Resp: 57932

Ion	Ratio	Lower	Upper
142	100		
127	49.9	35.4	53.2
141	14.2	11.6	17.4



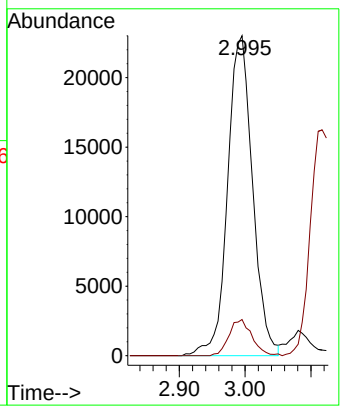


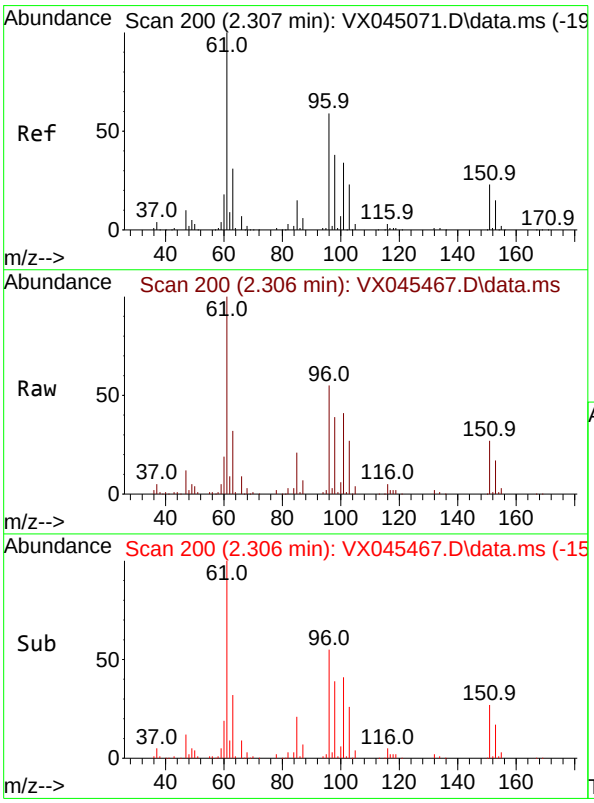
#11
Tert butyl alcohol
Concen: 253.087 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 59 Resp: 60816

Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8

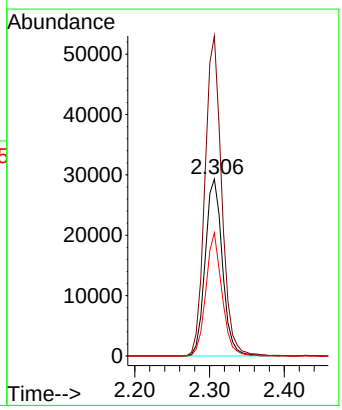


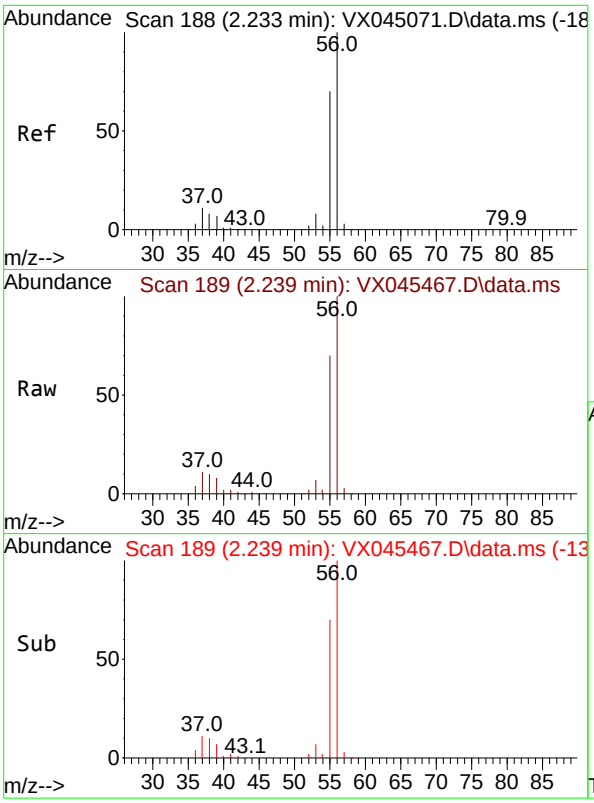


#12
1,1-Dichloroethene
Concen: 47.862 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 96 Resp: 46906

Ion	Ratio	Lower	Upper
96	100		
61	180.8	134.6	202.0
98	69.6	51.0	76.6



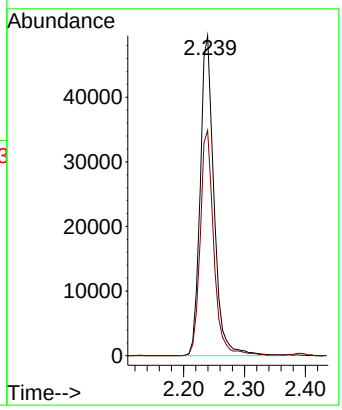


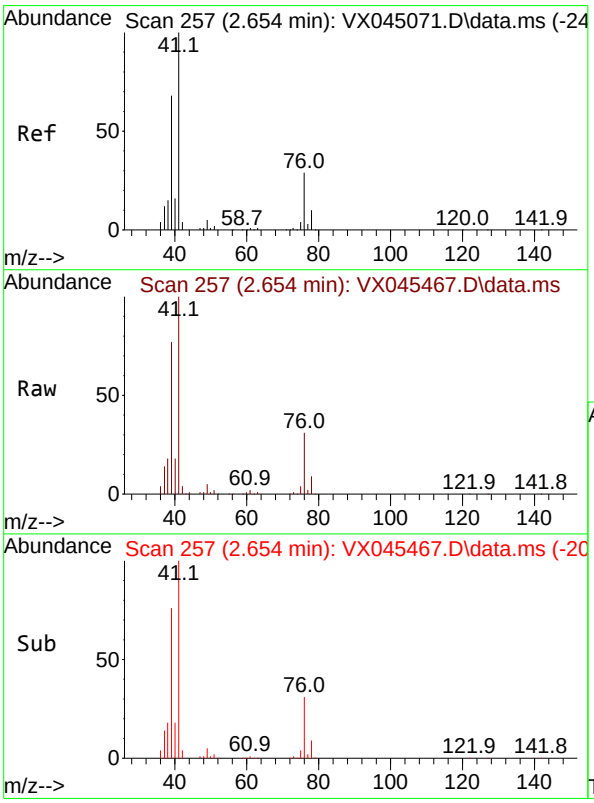
#13
Acrolein
Concen: 280.632 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 56 Resp: 77953

Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.2	84.4

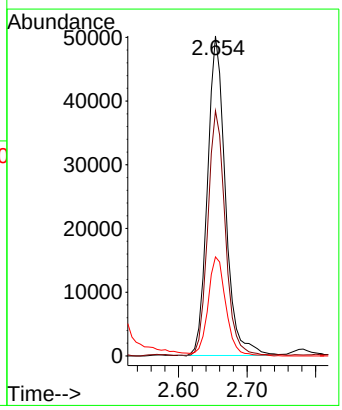


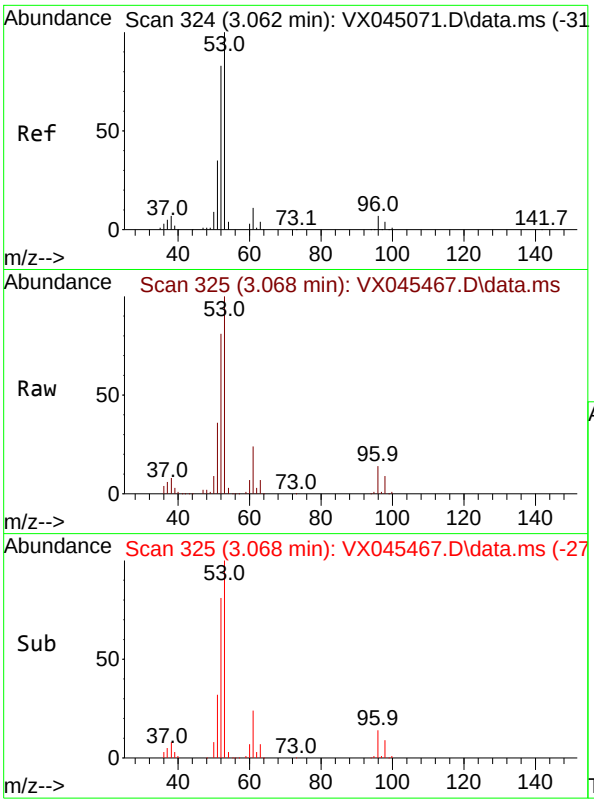


#14
Allyl chloride
Concen: 52.528 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 41 Resp: 91634

Ion	Ratio	Lower	Upper
41	100		
39	73.8	53.8	80.8
76	30.8	25.2	37.8



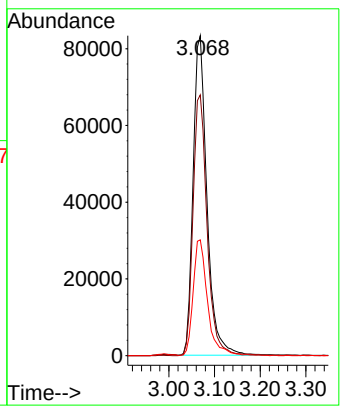


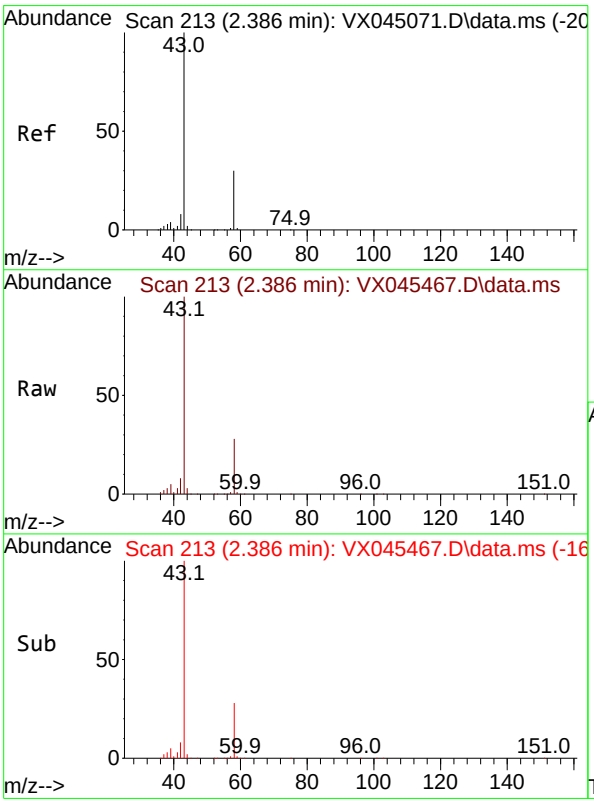
#15
Acrylonitrile
Concen: 272.322 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 53 Resp: 175382

Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.2	99.2
51	37.8	29.0	43.4

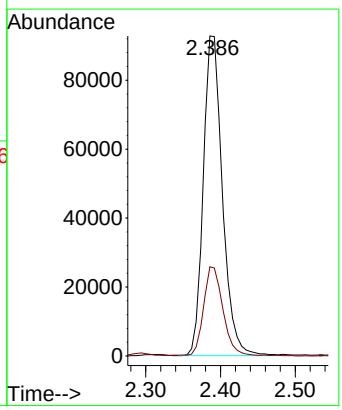


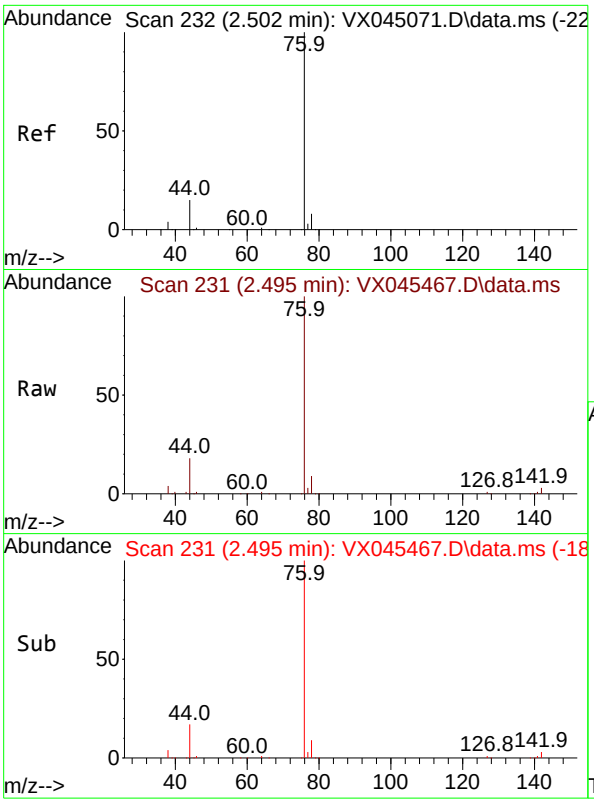


#16
Acetone
Concen: 280.669 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 165202

Ion	Ratio	Lower	Upper
43	100		
58	27.7	24.2	36.4



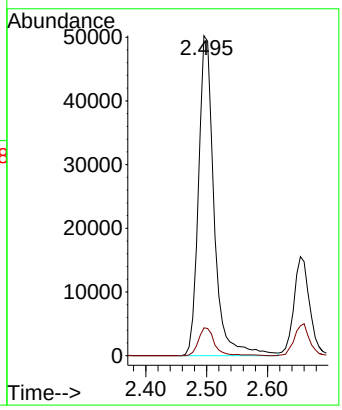


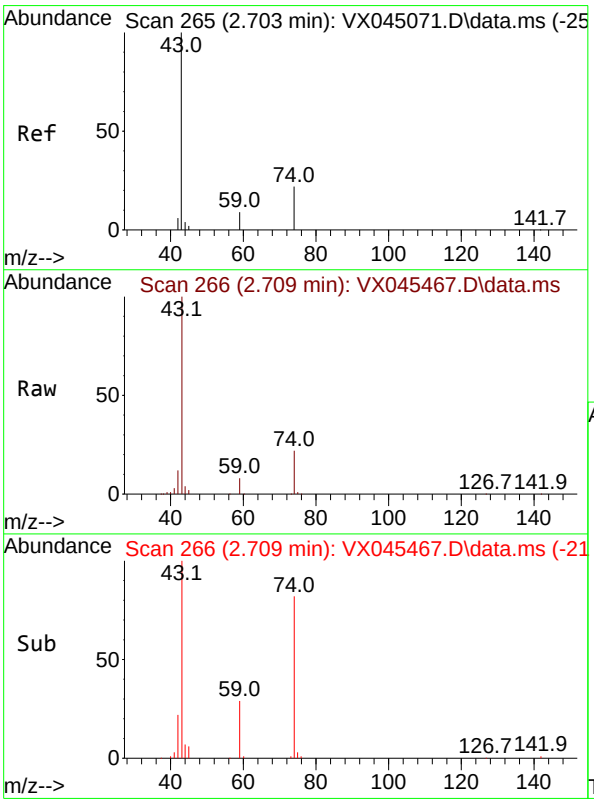
#17
Carbon Disulfide
Concen: 34.324 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 76 Resp: 89593

Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.6	9.8

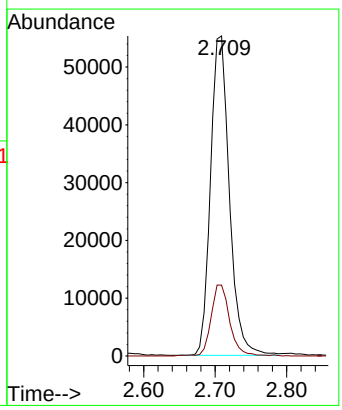


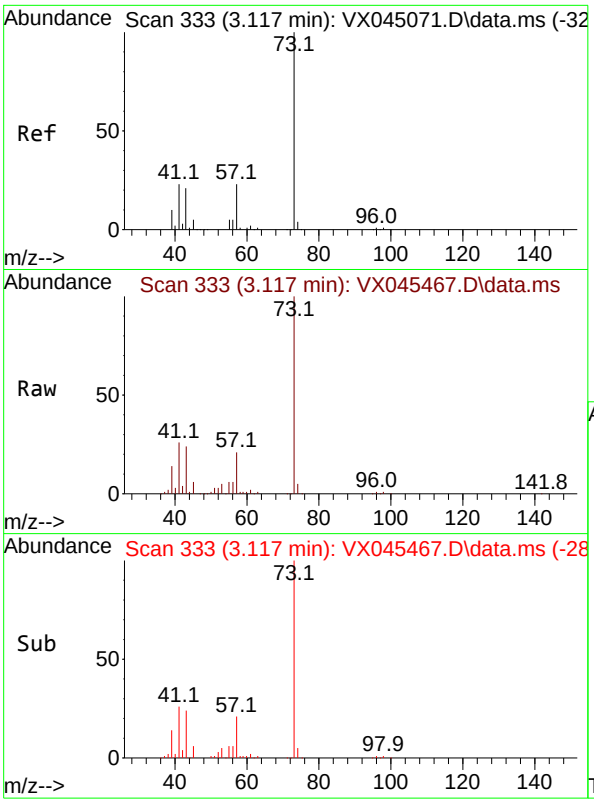


#18
Methyl Acetate
Concen: 71.511 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 101259

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2



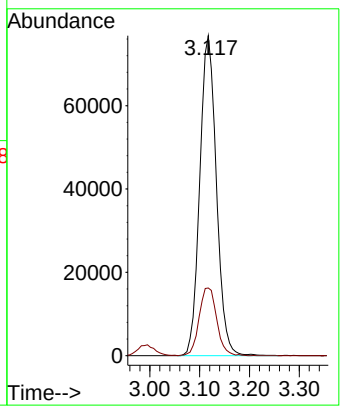


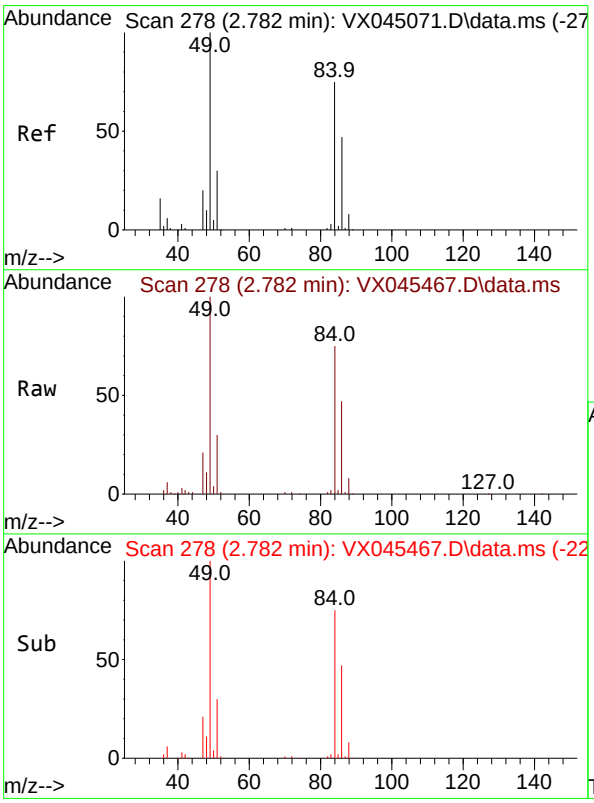
#19
Methyl tert-butyl Ether
Concen: 54.106 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 73 Resp: 177897

Ion	Ratio	Lower	Upper
73	100		
57	21.1	18.5	27.7

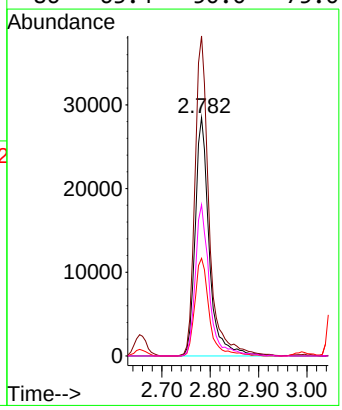


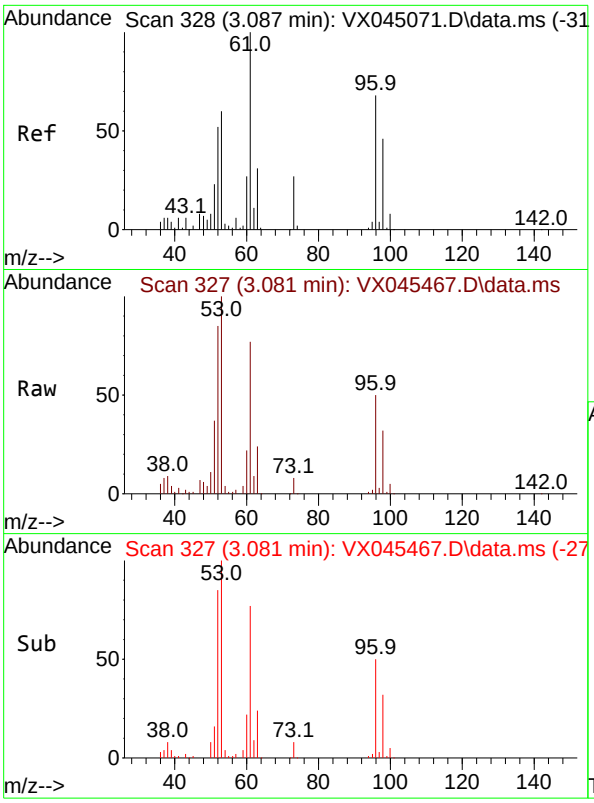


#20
Methylene Chloride
Concen: 49.055 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 84 Resp: 57196

Ion	Ratio	Lower	Upper
84	100		
49	134.2	106.5	159.7
51	40.9	32.1	48.1
86	63.4	50.0	75.0



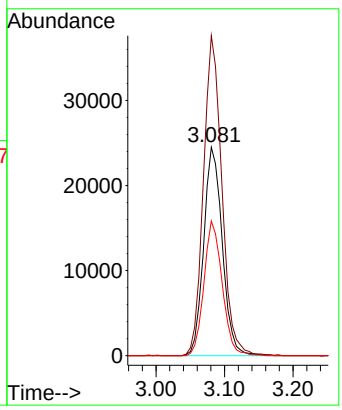


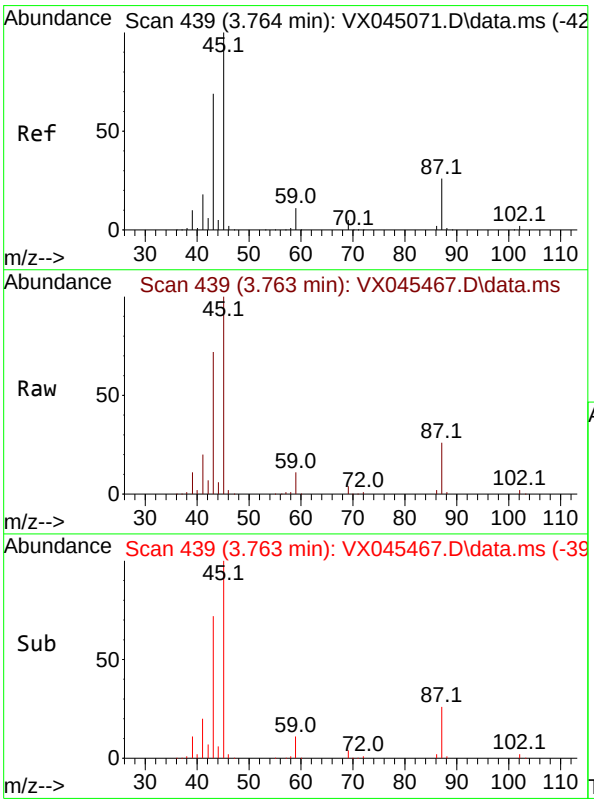
#21
trans-1,2-Dichloroethene
Concen: 47.904 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 96 Resp: 46380

Ion	Ratio	Lower	Upper
96	100		
61	153.5	117.0	175.4
98	64.6	53.4	80.2

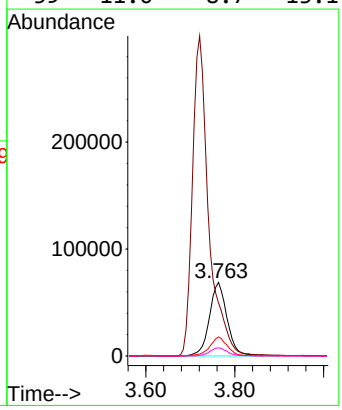


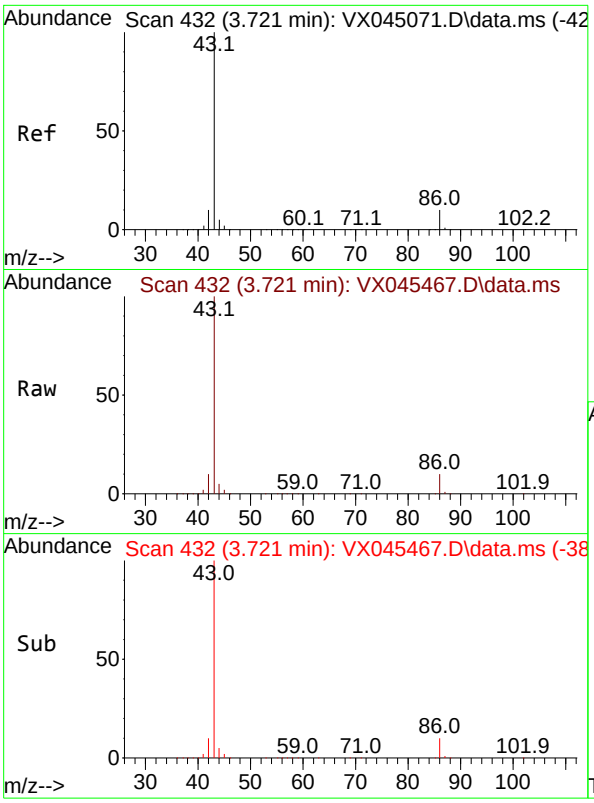


#22
Diisopropyl ether
Concen: 53.591 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 45 Resp: 190132

Ion	Ratio	Lower	Upper
45	100		
43	72.0	54.9	82.3
87	25.8	21.0	31.4
59	11.0	8.7	13.1



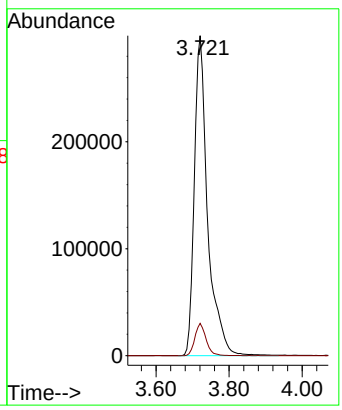


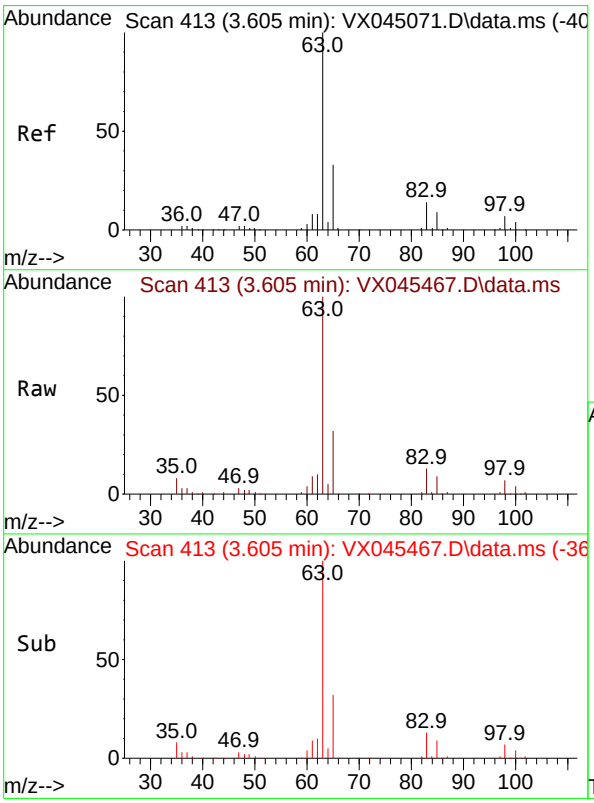
#23
Vinyl Acetate
Concen: 257.312 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 43 Resp: 761827

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

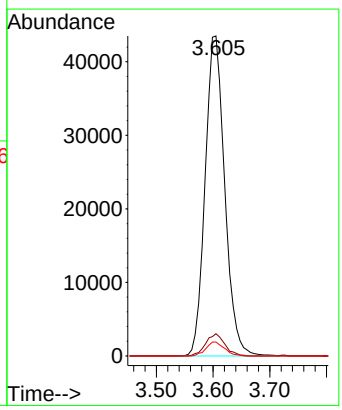


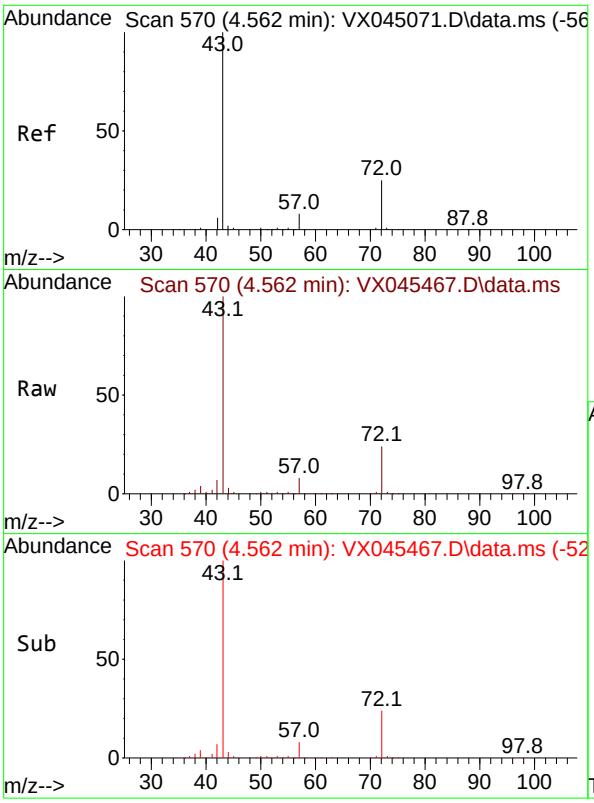


#24
1,1-Dichloroethane
Concen: 52.681 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 63 Resp: 104747

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.4	10.2
100	4.3	2.1	6.5



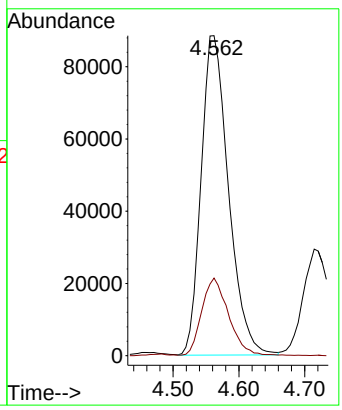


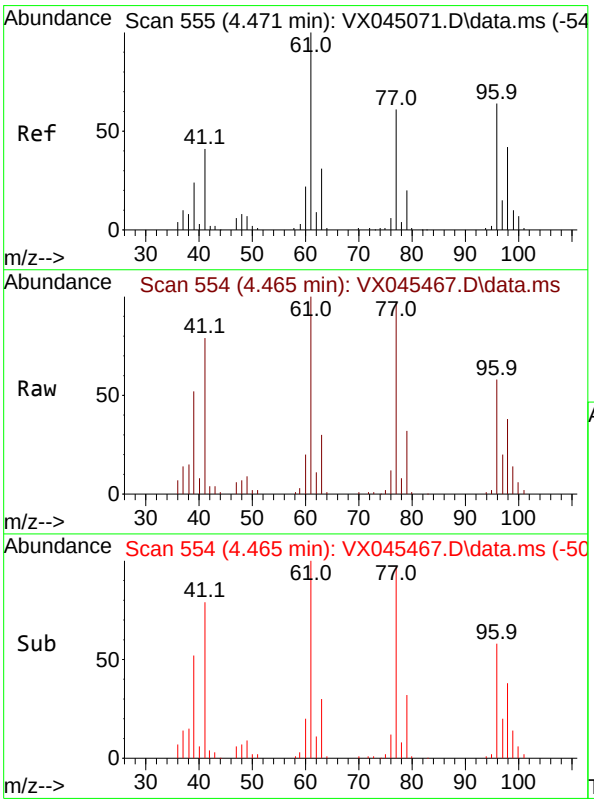
#25
2-Butanone
Concen: 289.256 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 43 Resp: 256278

Ion	Ratio	Lower	Upper
43	100		
72	24.2	20.0	30.0

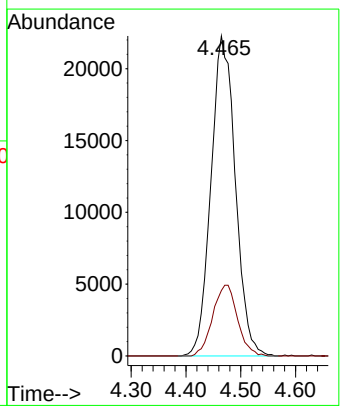


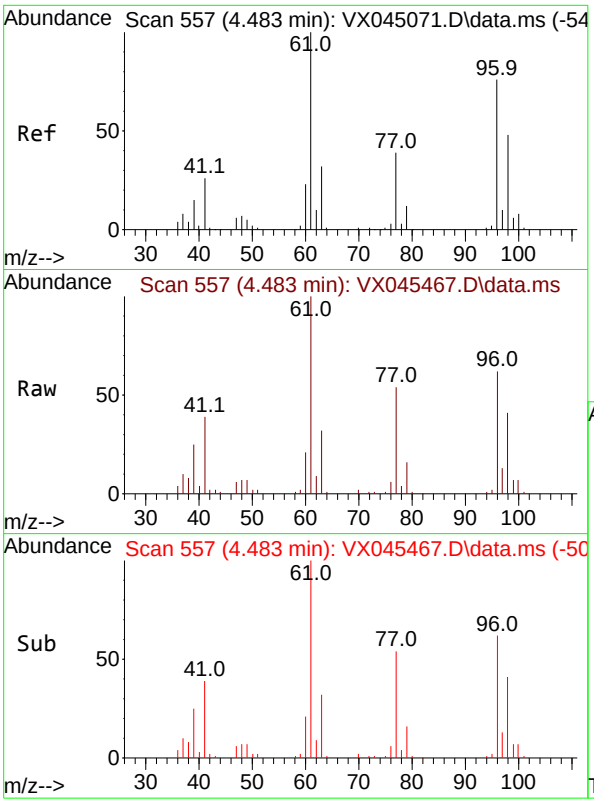


#26
2,2-Dichloropropane
Concen: 73.768 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 77 Resp: 68798

Ion	Ratio	Lower	Upper
77	100		
97	22.5	12.4	37.0



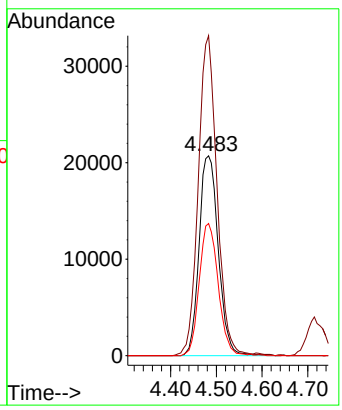


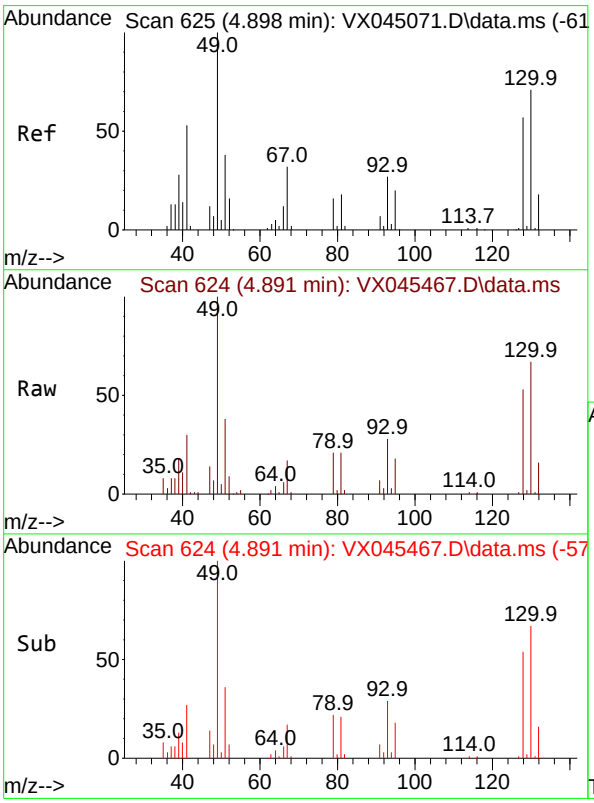
#27
cis-1,2-Dichloroethene
Concen: 50.536 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 96 Resp: 60400

Ion	Ratio	Lower	Upper
96	100		
61	156.0	0.0	283.2
98	65.5	0.0	128.0

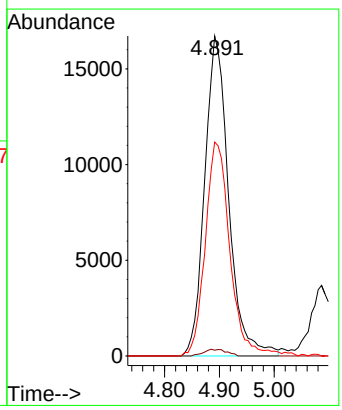


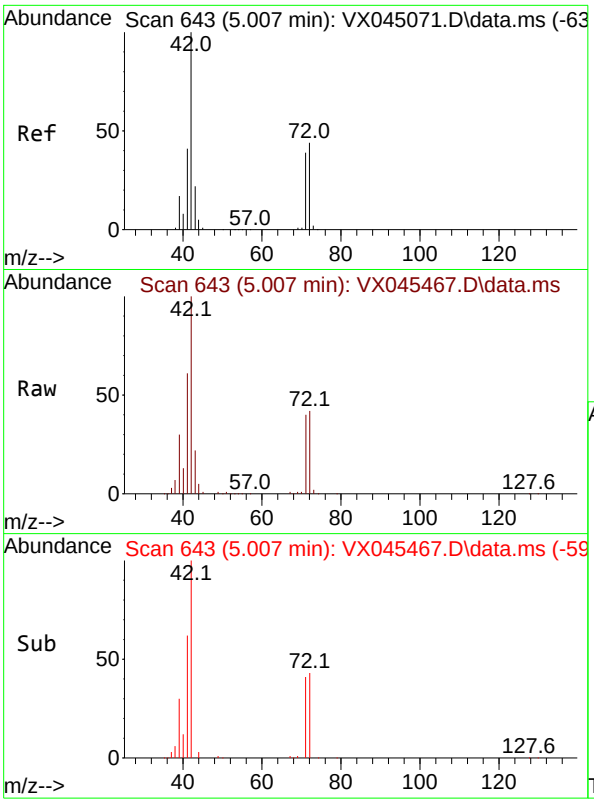


#28
Bromochloromethane
Concen: 53.536 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 49 Resp: 50738

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	68.5	56.1	84.1



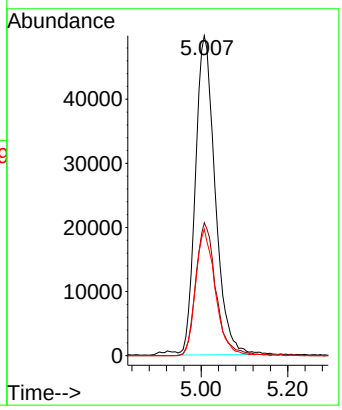


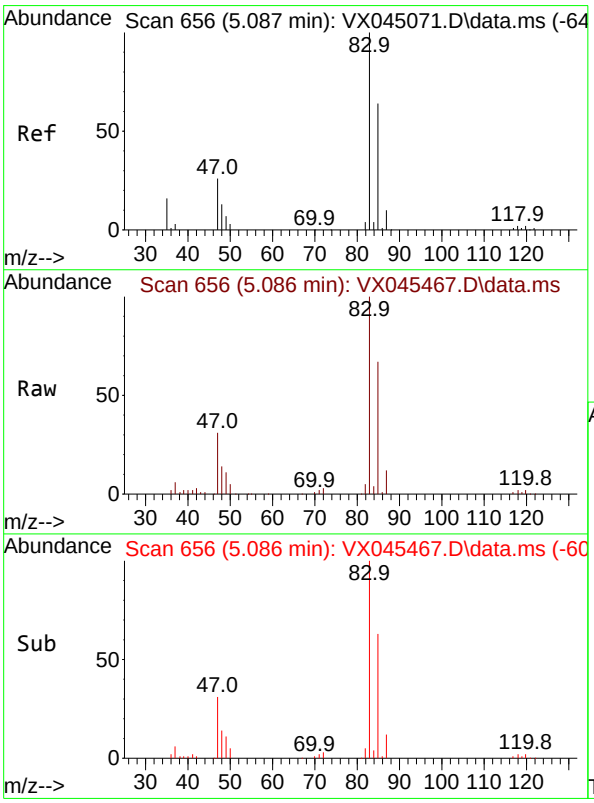
#29
Tetrahydrofuran
Concen: 265.234 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 42 Resp: 157811

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.1	51.1
71	39.3	31.4	47.0

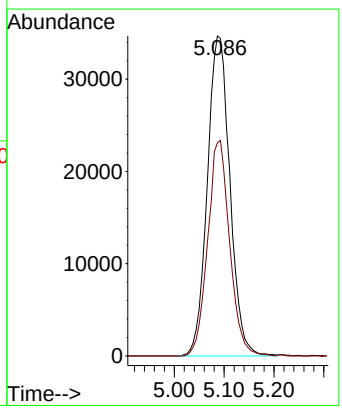


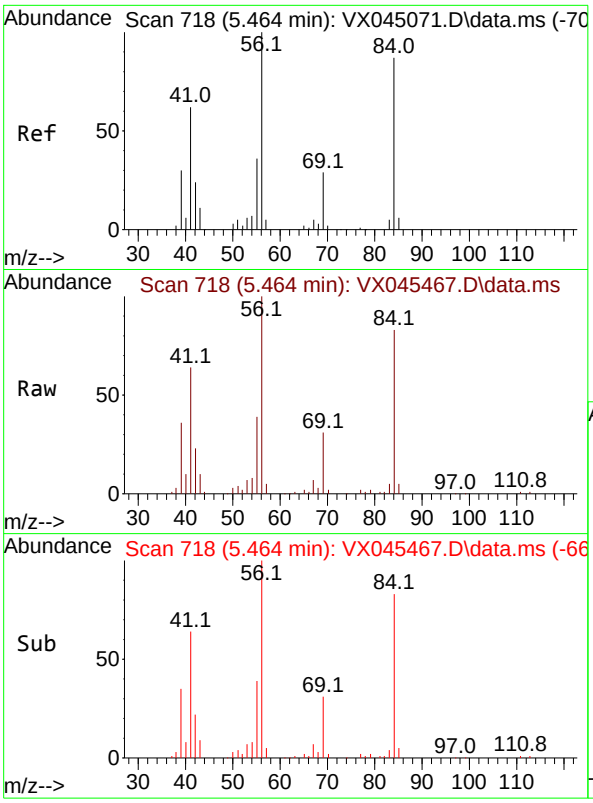


#30
Chloroform
Concen: 55.188 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 83 Resp: 109031

Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.4	77.2



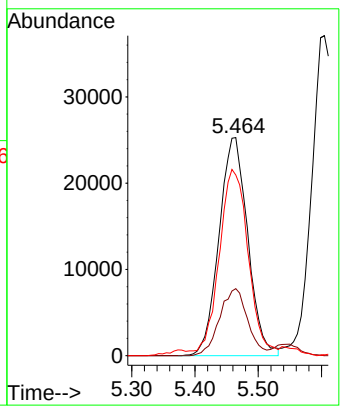


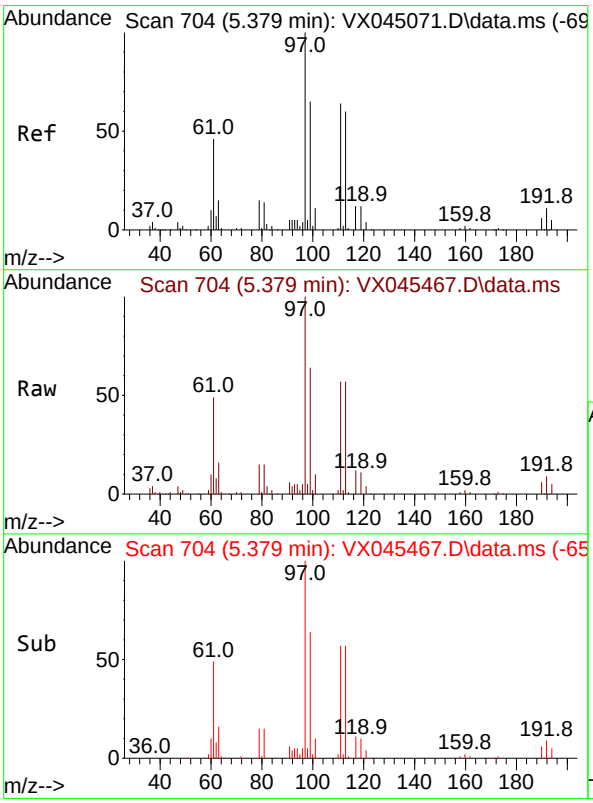
#31
Cyclohexane
Concen: 46.223 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 56 Resp: 79780

Ion	Ratio	Lower	Upper
56	100		
69	30.7	23.4	35.2
84	80.2	69.4	104.2

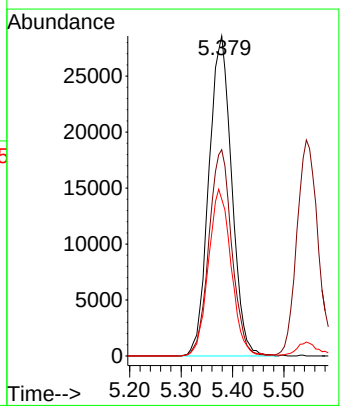


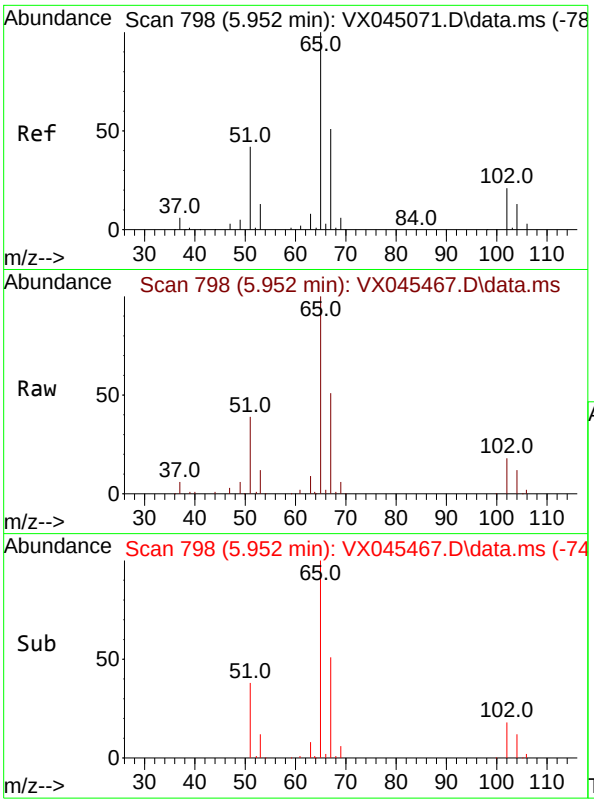


#32
1,1,1-Trichloroethane
Concen: 55.326 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 97 Resp: 88281

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	51.9	38.4	57.6



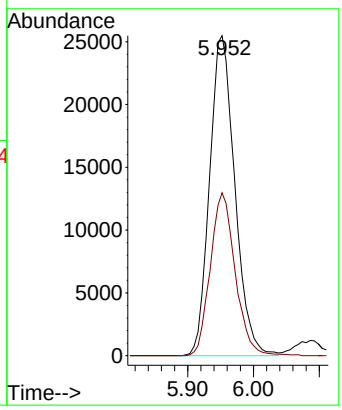


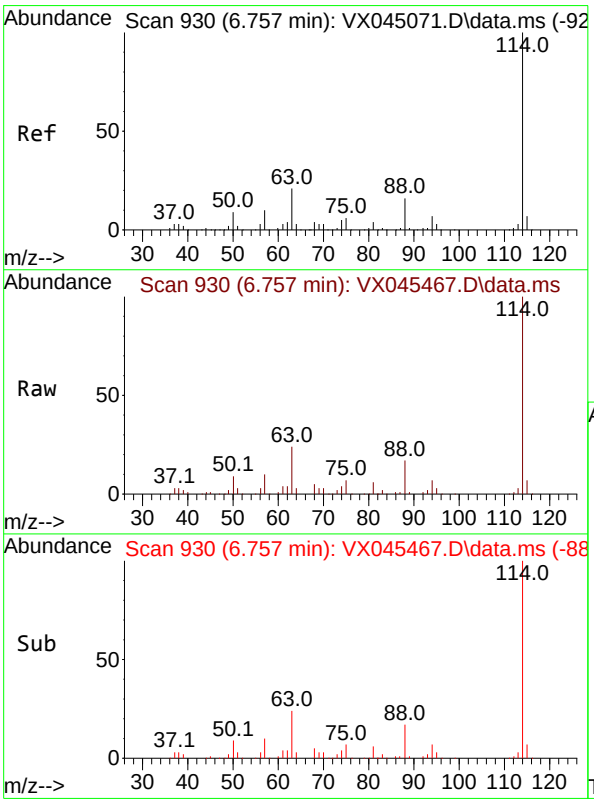
#33
1,2-Dichloroethane-d4
Concen: 53.687 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 65 Resp: 68108

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	106.2

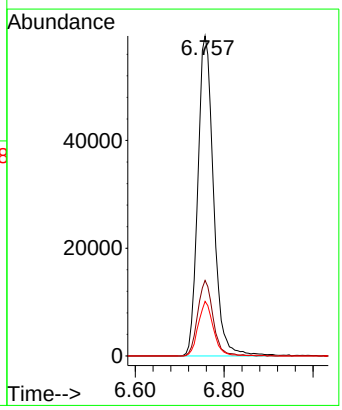


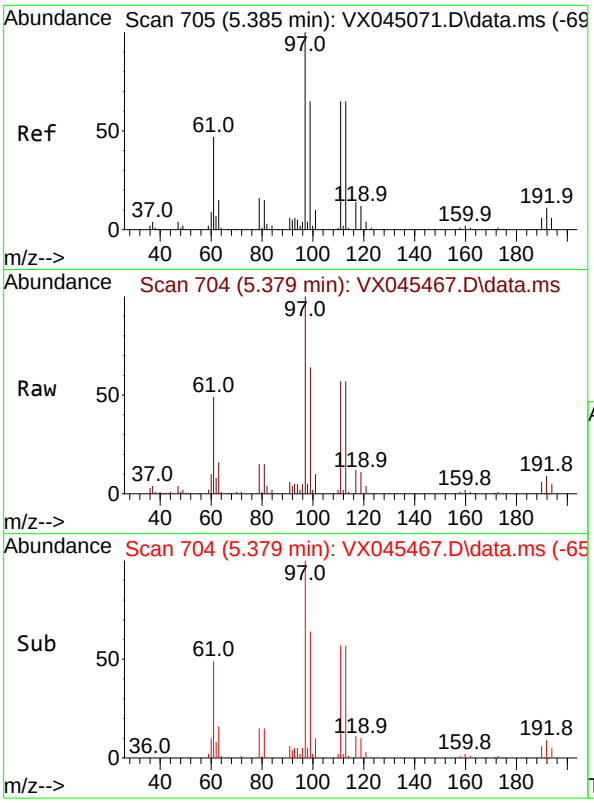


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:114 Resp: 146350

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	41.8
88	17.0	0.0	32.8



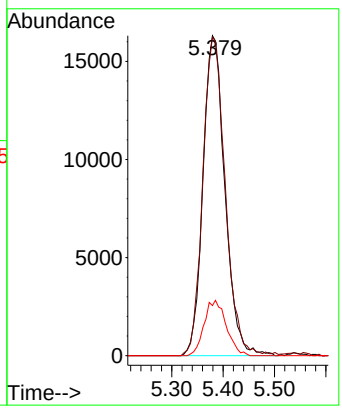


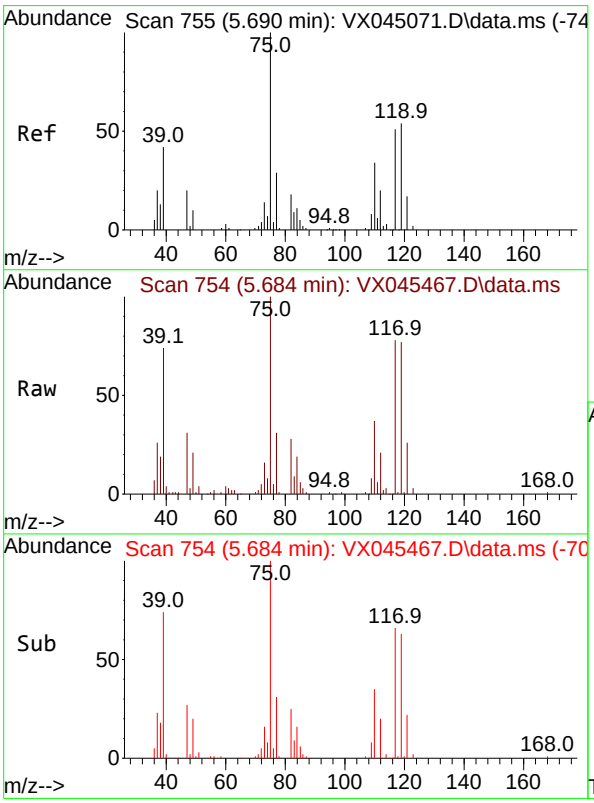
#35
Dibromofluoromethane
Concen: 49.330 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:113 Resp: 48275

Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.6
192	17.5	14.3	21.5

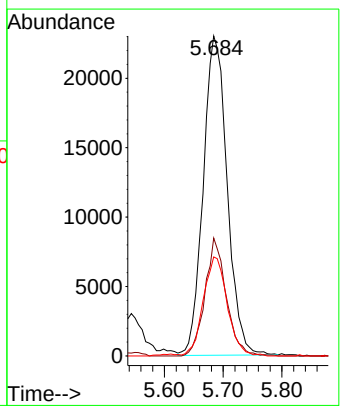


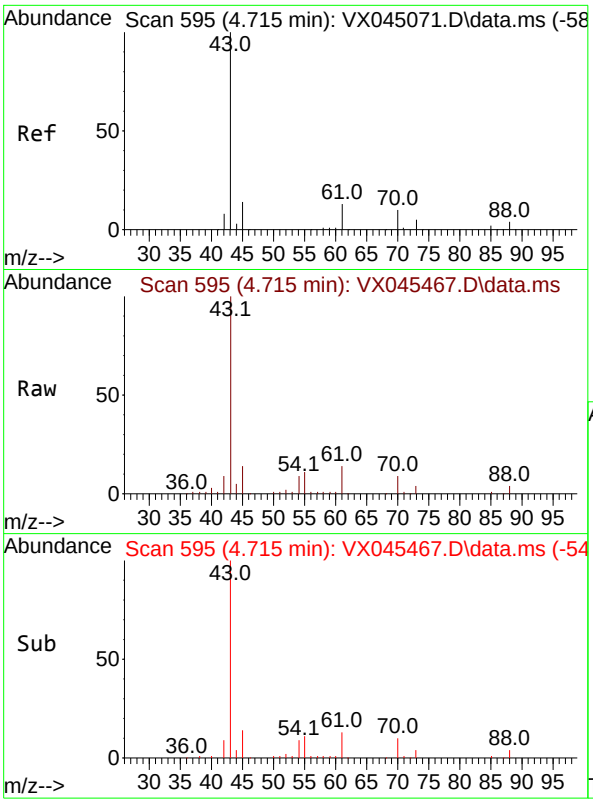


#36
1,1-Dichloropropene
Concen: 48.495 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 65083

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.9	50.6
77	31.0	24.5	36.7



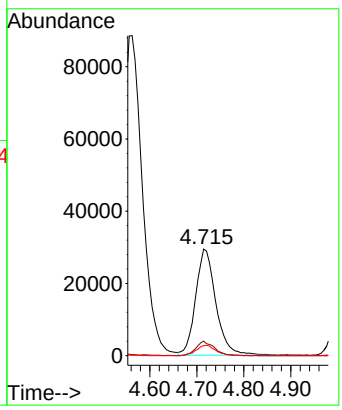


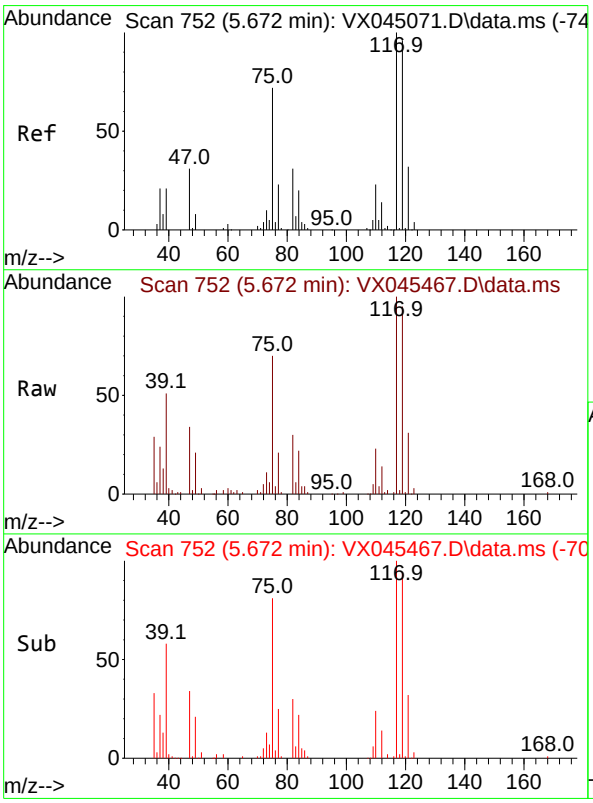
#37
Ethyl Acetate
Concen: 50.852 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 43 Resp: 87939

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.8	16.2
70	9.5	7.7	11.5

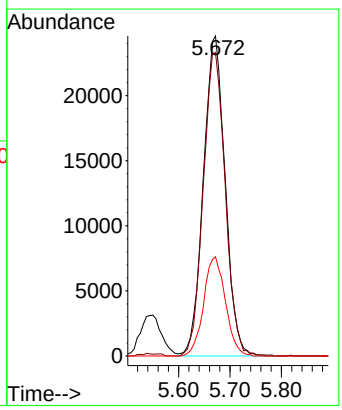


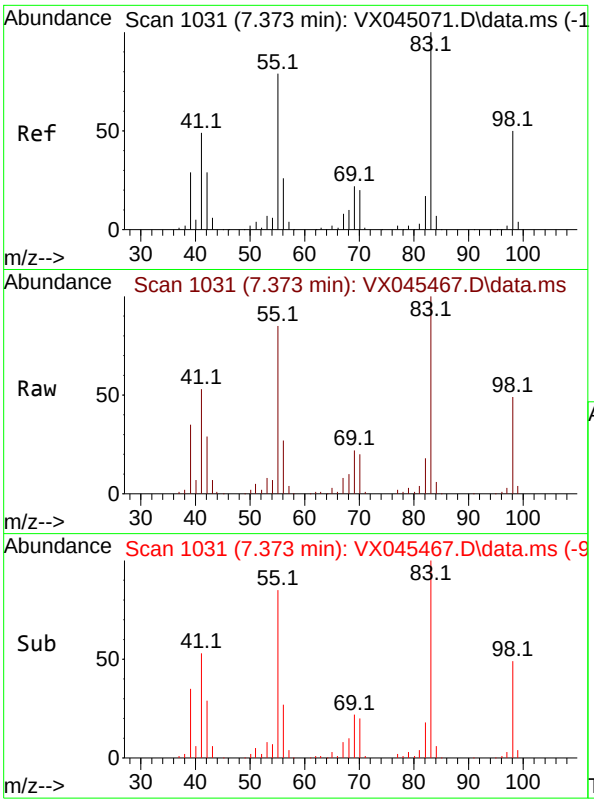


#38
Carbon Tetrachloride
Concen: 53.077 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:117 Resp: 72318

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.7	115.1
121	31.0	25.5	38.3



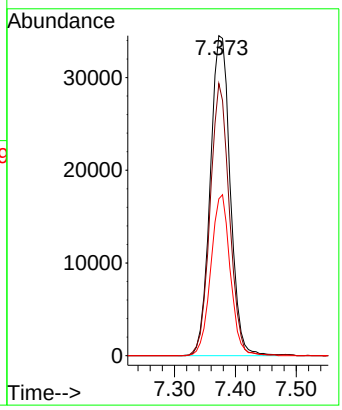


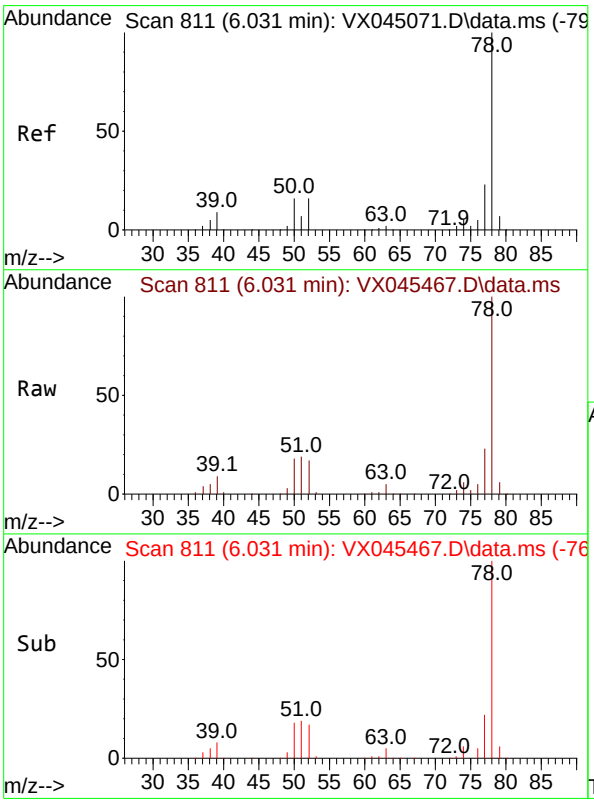
#39
Methylcyclohexane
Concen: 48.920 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 83 Resp: 78668

Ion	Ratio	Lower	Upper
83	100		
55	85.1	63.0	94.4
98	49.0	39.7	59.5

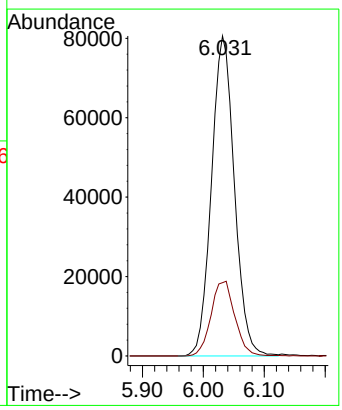


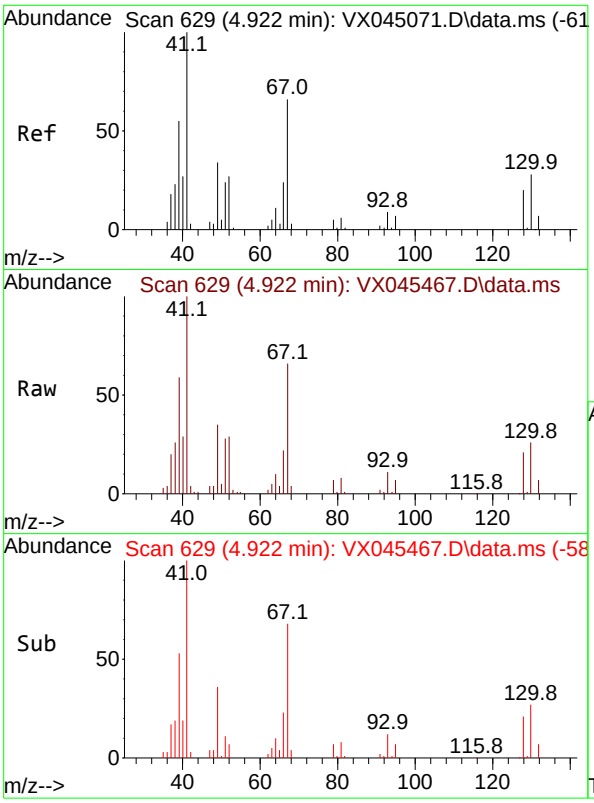


#40
Benzene
Concen: 49.669 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 78 Resp: 210492

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.8	28.2



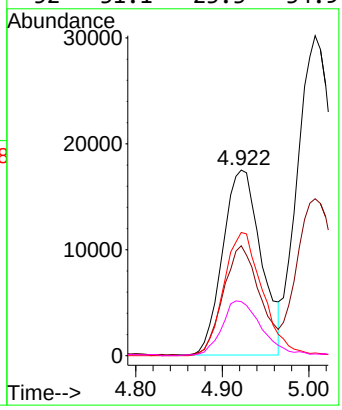


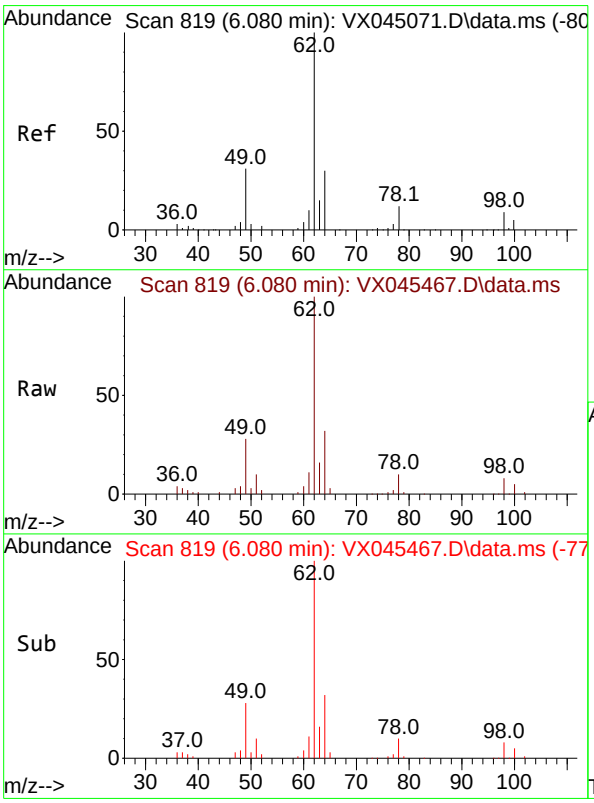
#41
Methacrylonitrile
Concen: 57.624 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 41 Resp: 53883

Ion	Ratio	Lower	Upper
41	100		
39	56.5	44.6	67.0
67	67.6	53.9	80.9
52	31.1	23.3	34.9

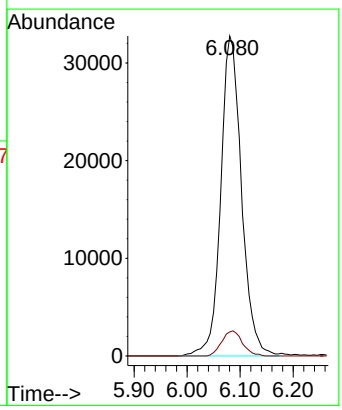


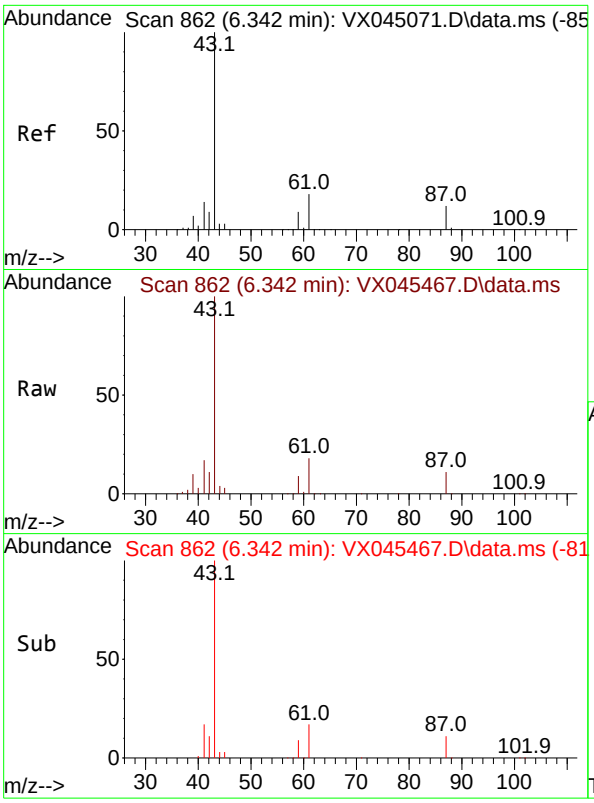


#42
1,2-Dichloroethane
Concen: 58.409 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 62 Resp: 89136

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	18.2



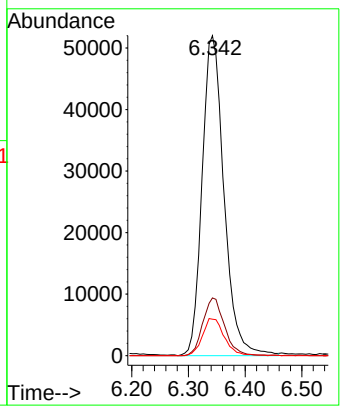


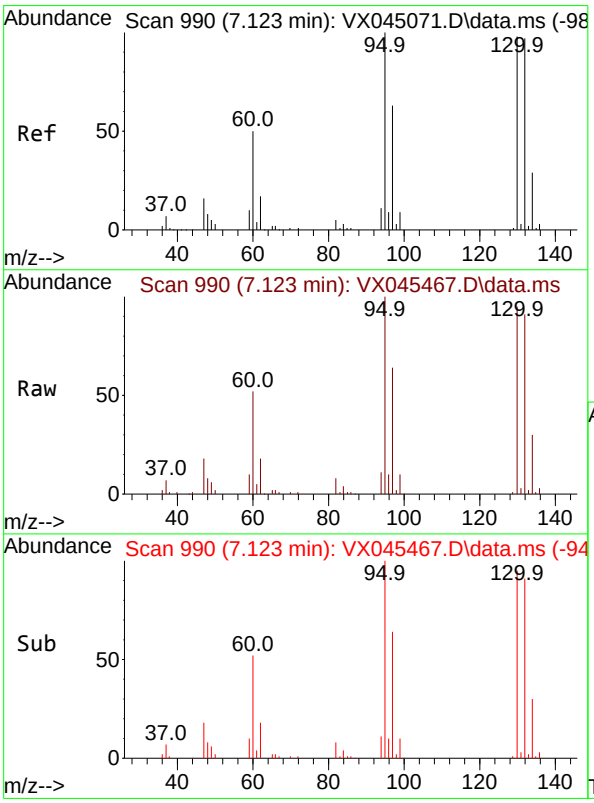
#43
Isopropyl Acetate
Concen: 54.473 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 43 Resp: 139297

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.9	22.3
87	11.6	9.4	14.2

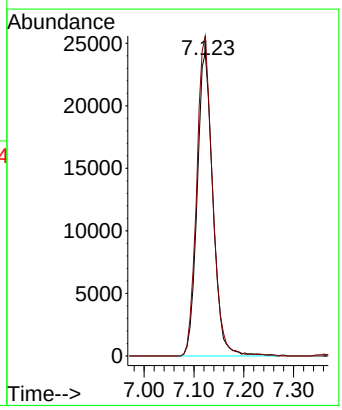


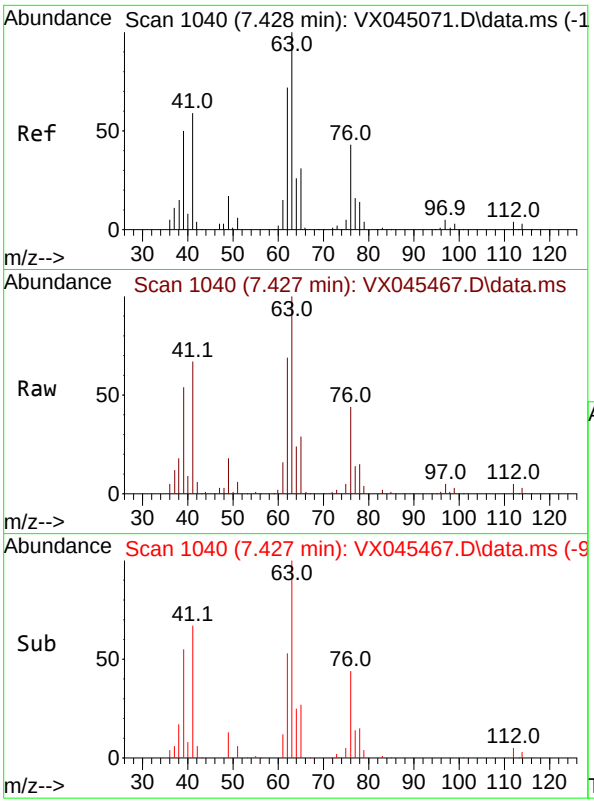


#44
Trichloroethene
Concen: 53.470 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:130 Resp: 53208

Ion	Ratio	Lower	Upper
130	100		
95	105.5	0.0	205.0



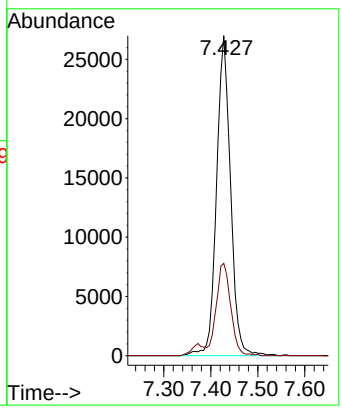


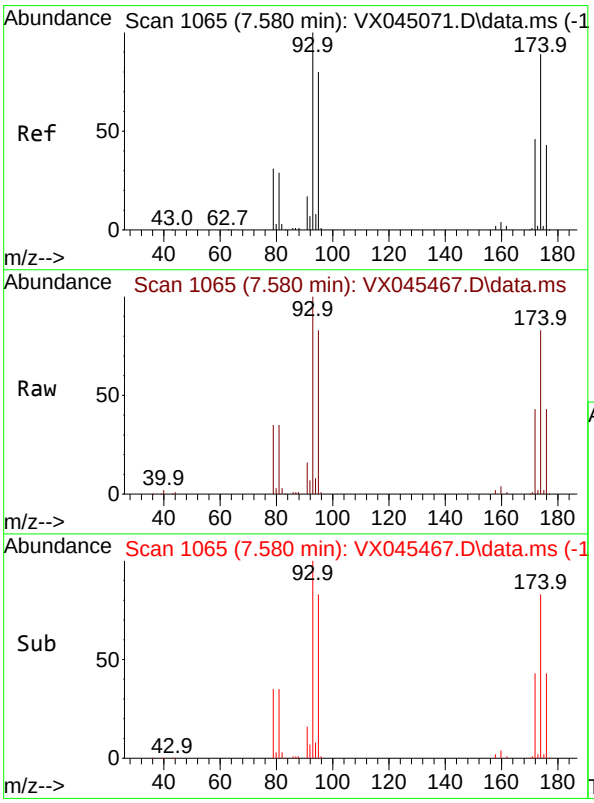
#45
1,2-Dichloropropane
Concen: 51.364 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 63 Resp: 55967

Ion	Ratio	Lower	Upper
63	100		
65	28.9	24.7	37.1

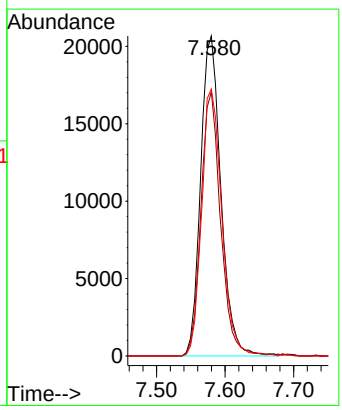


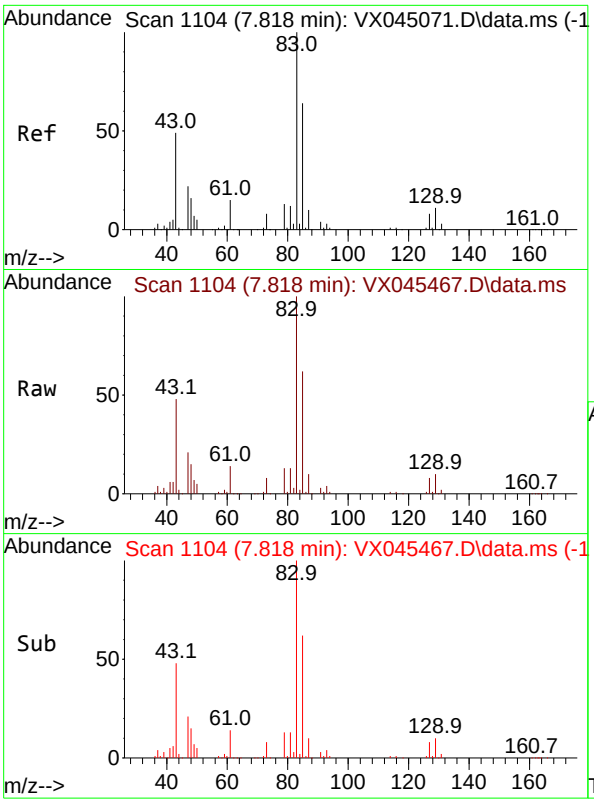


#46
Dibromomethane
Concen: 55.348 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 93 Resp: 42626

Ion	Ratio	Lower	Upper
93	100		
95	80.2	65.8	98.8
174	83.2	72.2	108.2



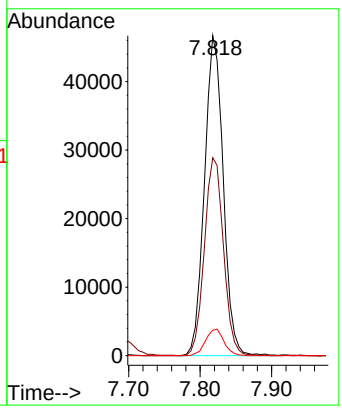


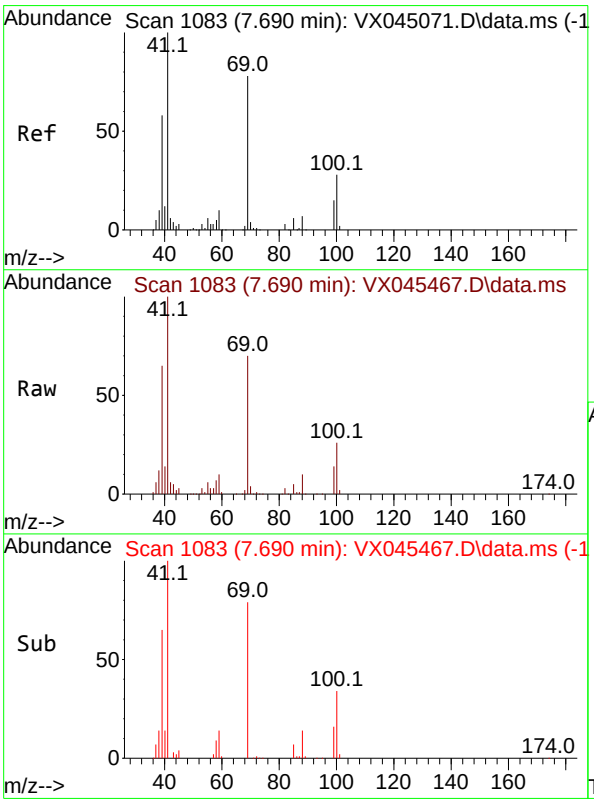
#47
Bromodichloromethane
Concen: 56.299 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 83 Resp: 85047

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	8.0	6.4	9.6

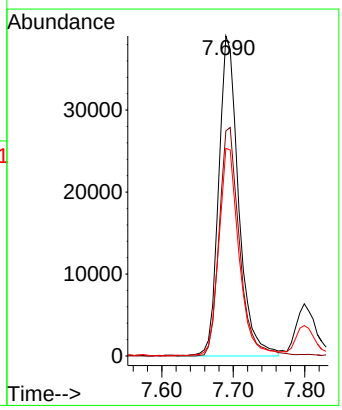


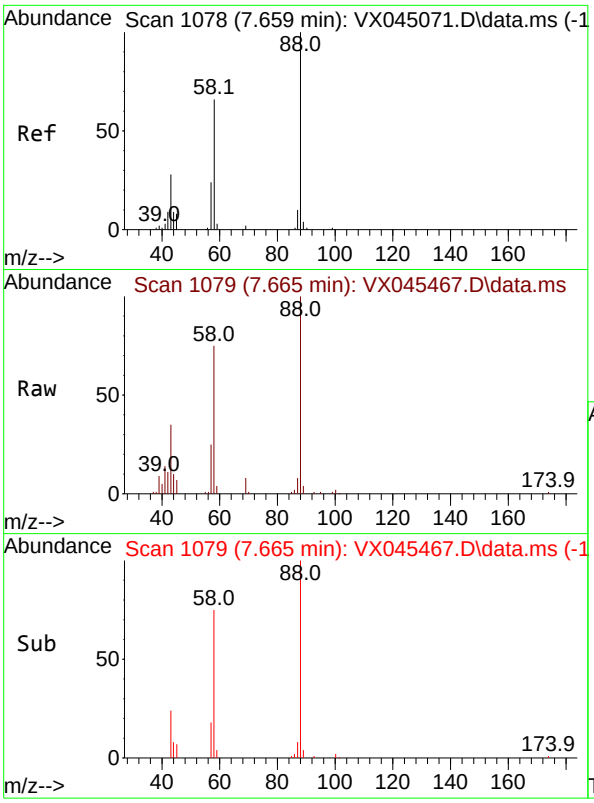


#48
Methyl methacrylate
Concen: 58.917 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 41 Resp: 75585

Ion	Ratio	Lower	Upper
41	100		
69	72.6	63.0	94.6
39	65.4	47.5	71.3



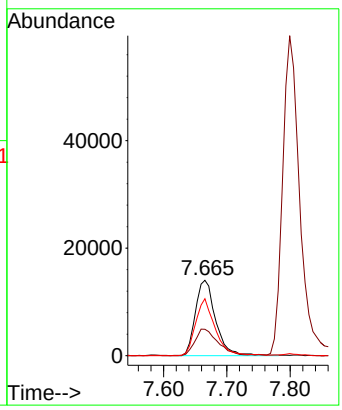


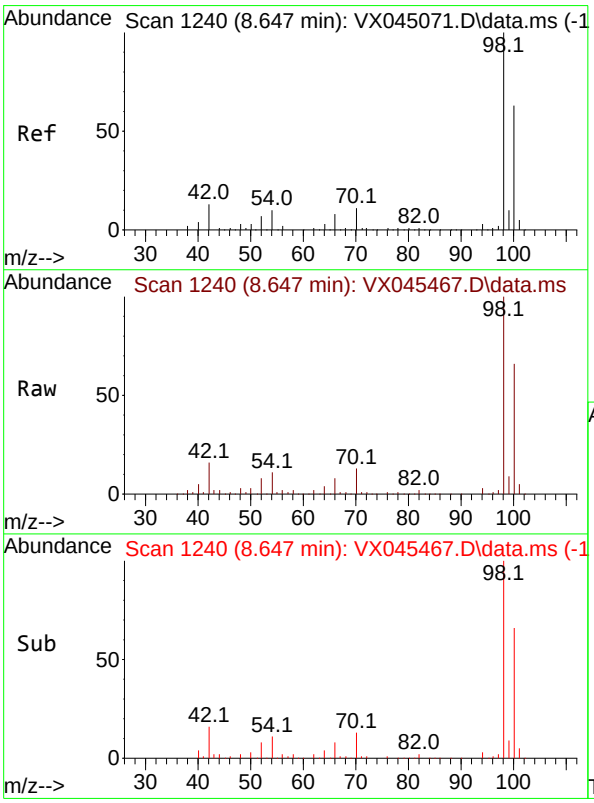
#49
1,4-Dioxane
Concen: 1154.916 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 88 Resp: 31254

Ion	Ratio	Lower	Upper
88	100		
43	40.4	28.7	43.1
58	72.7	55.8	83.8

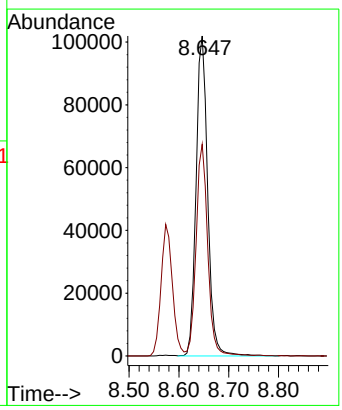


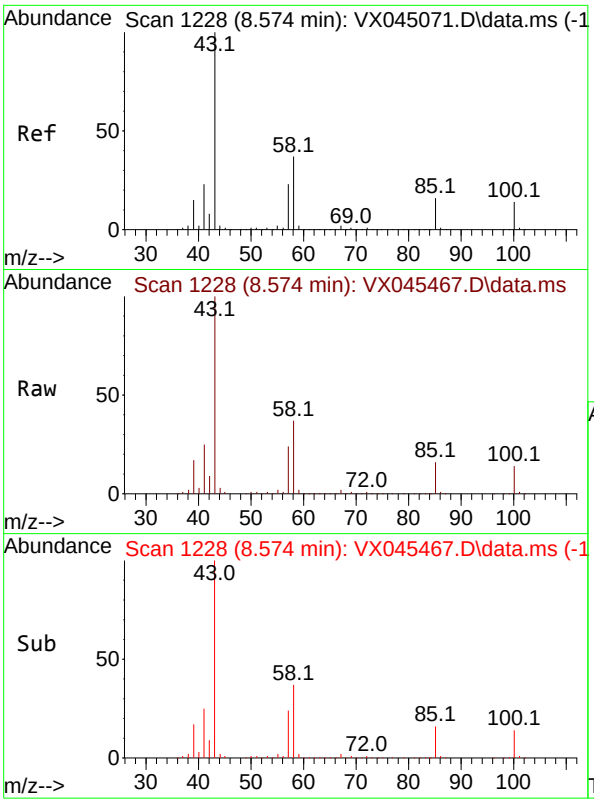


#50
Toluene-d8
Concen: 46.477 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 98 Resp: 164889

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.0	78.0



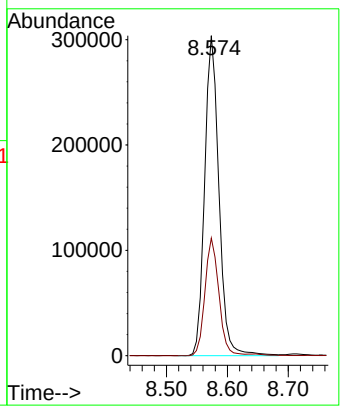


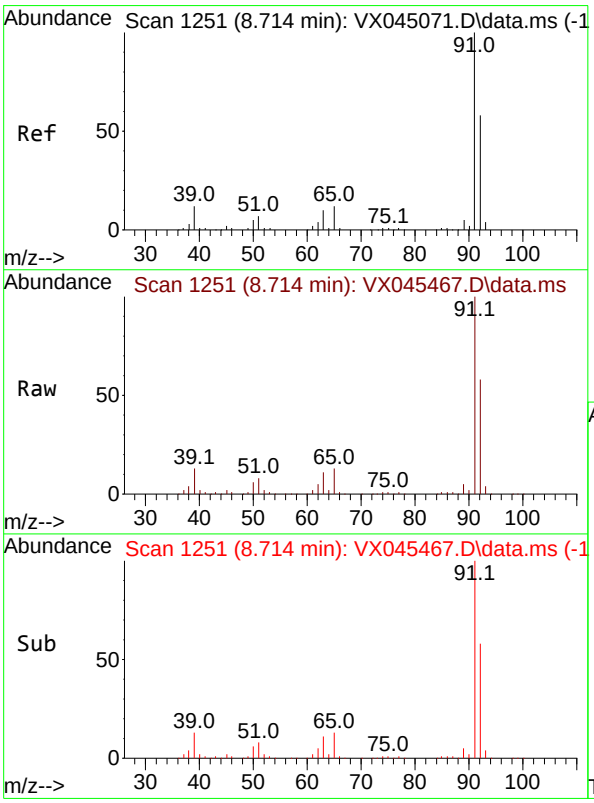
#51
4-Methyl-2-Pentanone
Concen: 288.370 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 43 Resp: 495132

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.2	43.8

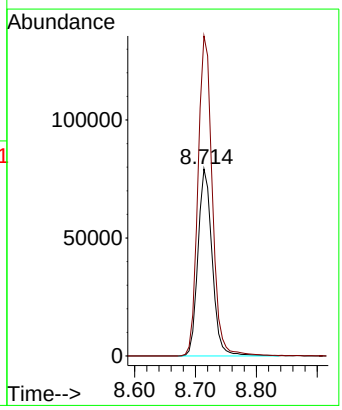


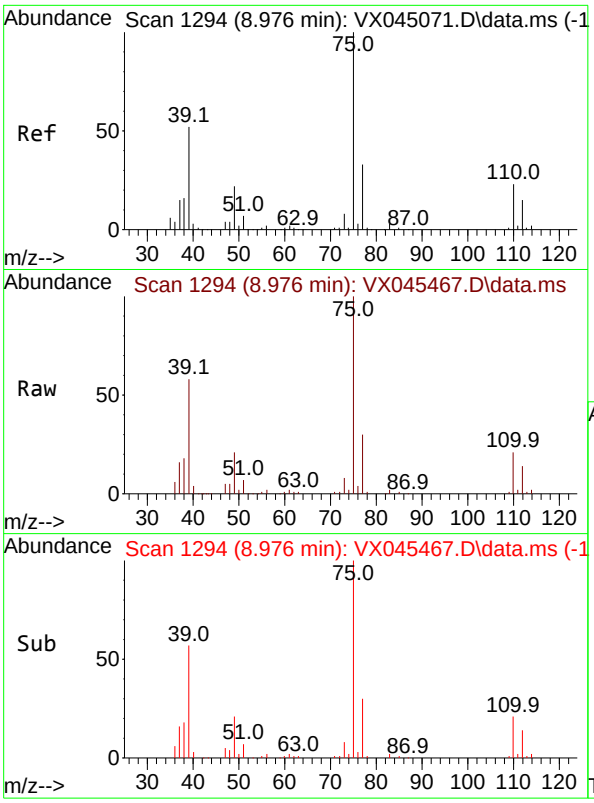


#52
Toluene
Concen: 51.594 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 92 Resp: 128286

Ion	Ratio	Lower	Upper
92	100		
91	173.0	138.9	208.3



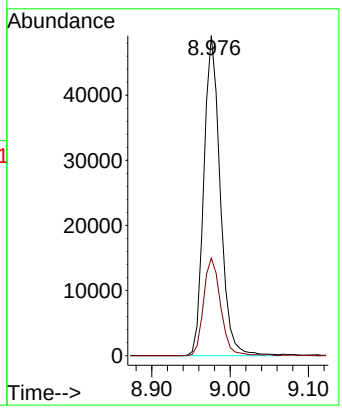


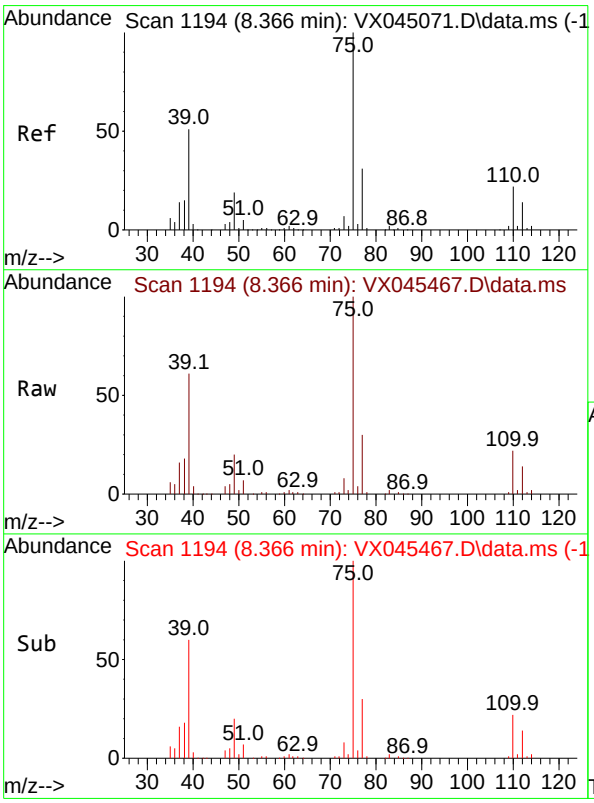
#53
t-1,3-Dichloropropene
Concen: 56.484 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 75 Resp: 71333

Ion	Ratio	Lower	Upper
75	100		
77	30.5	26.5	39.7

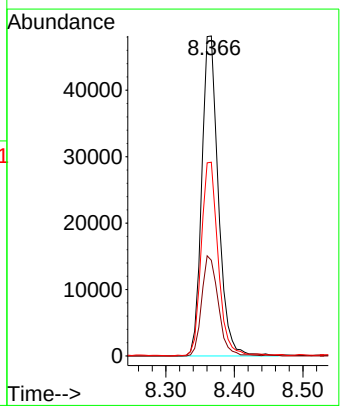


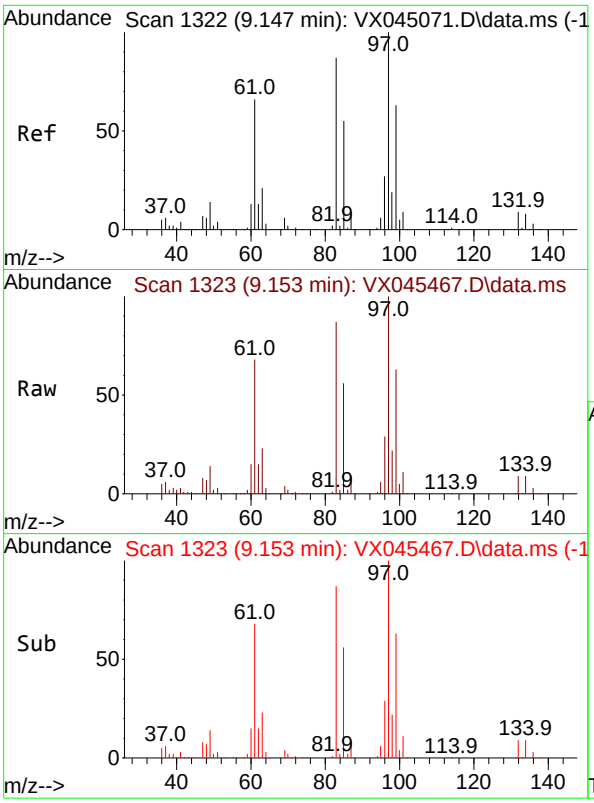


#54
cis-1,3-Dichloropropene
Concen: 55.168 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 81244

Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.7	37.1
39	60.3	40.7	61.1



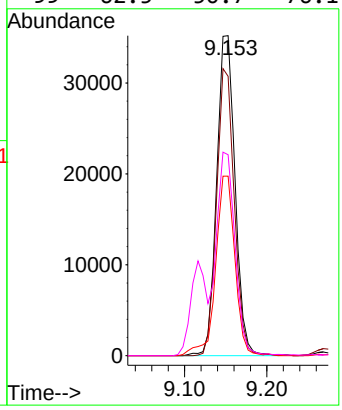


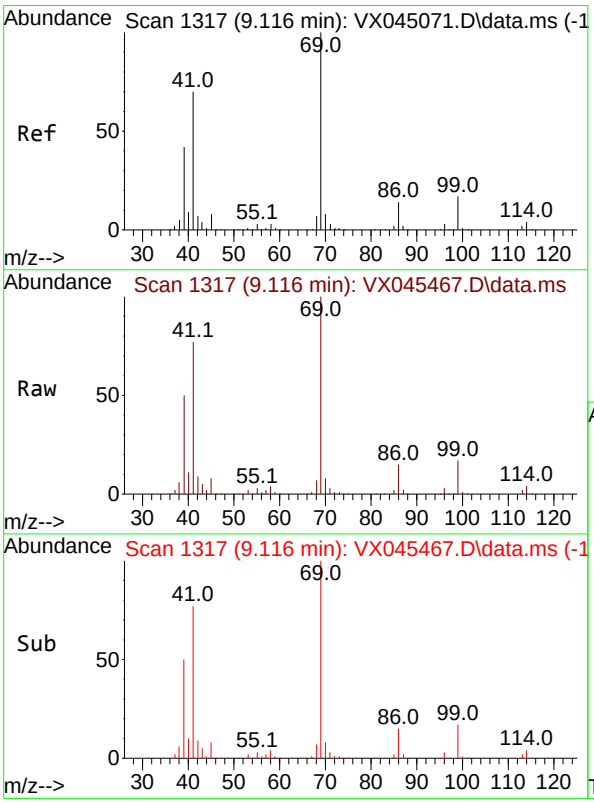
#55
1,1,2-Trichloroethane
Concen: 53.517 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 97 Resp: 54781

Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.4	104.2
85	56.1	44.1	66.1
99	62.5	50.7	76.1

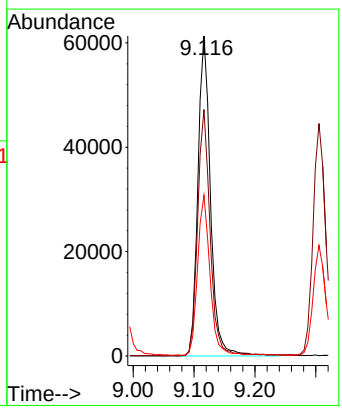


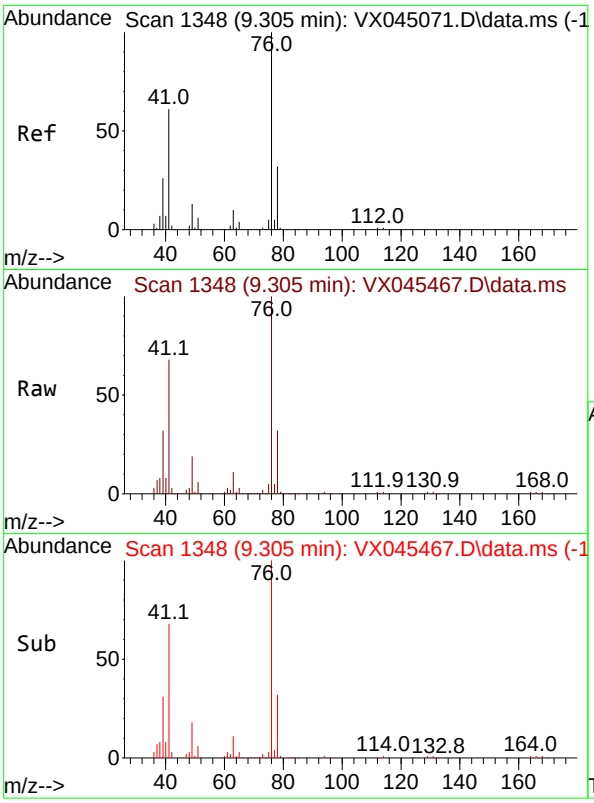


#56
Ethyl methacrylate
Concen: 56.598 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 69 Resp: 88064

Ion	Ratio	Lower	Upper
69	100		
41	77.1	57.0	85.4
39	49.2	34.2	51.4



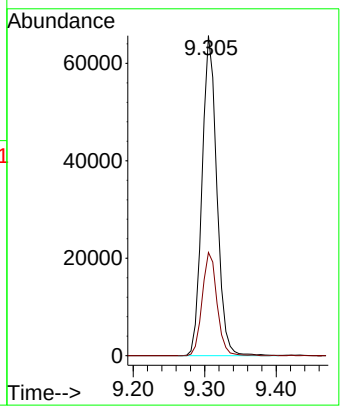


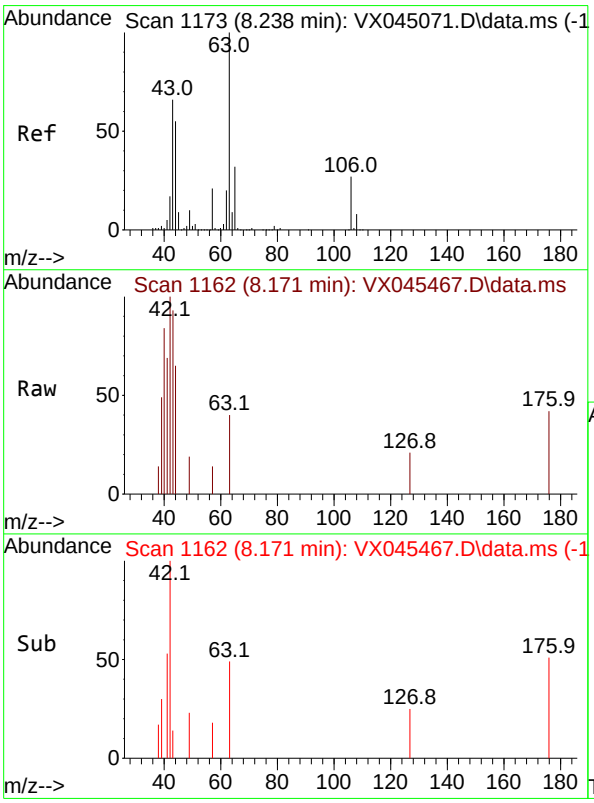
#57
1,3-Dichloropropane
Concen: 53.232 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 76 Resp: 94297

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.5	38.3

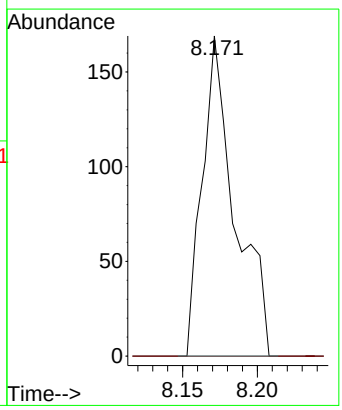


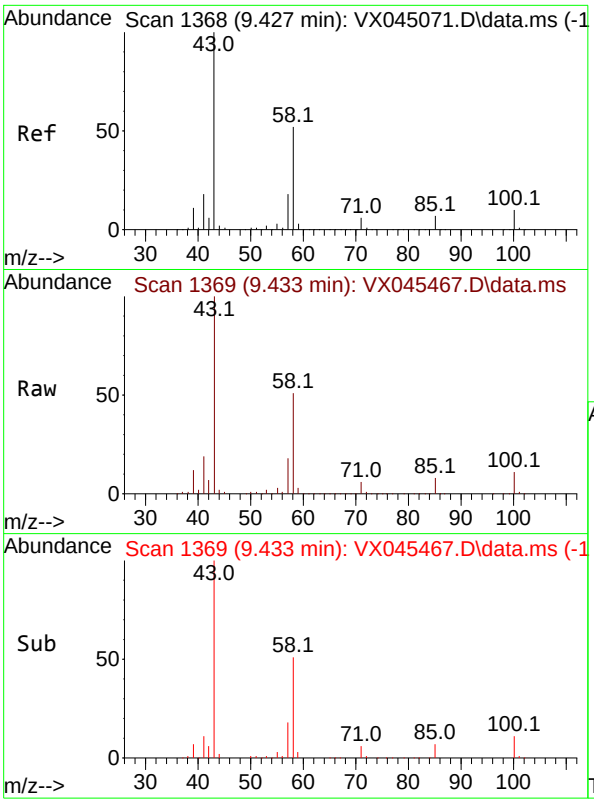


#58
2-Chloroethyl Vinyl ether
Concen: 0.339 ug/l
RT: 8.171 min Scan# 1162
Delta R.T. -0.067 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 63 Resp: 257

Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.5	32.3#



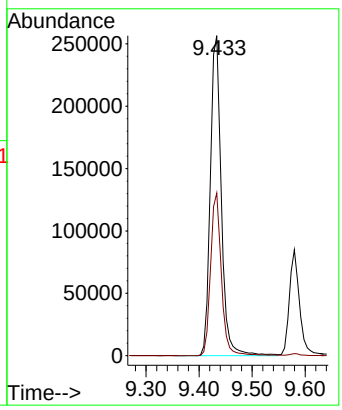


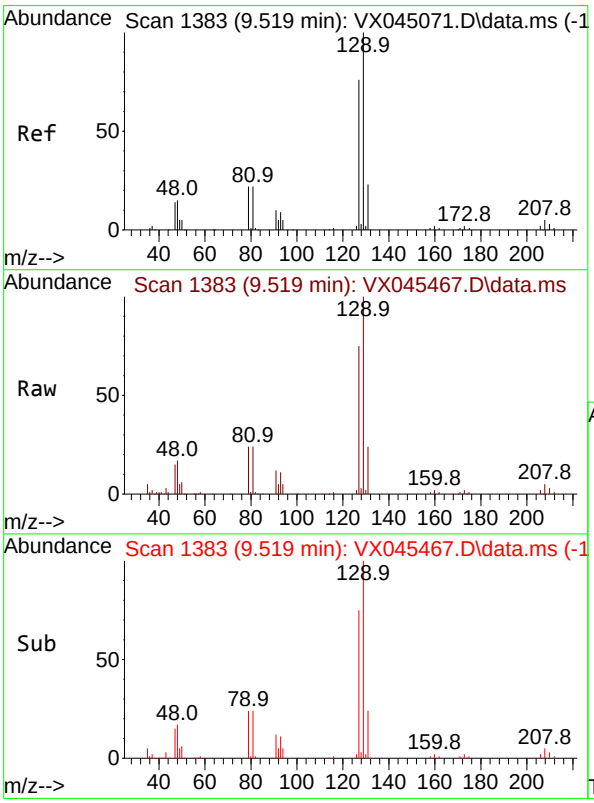
#59
2-Hexanone
Concen: 296.710 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 43 Resp: 369120

Ion	Ratio	Lower	Upper
43	100		
58	50.0	25.9	77.6

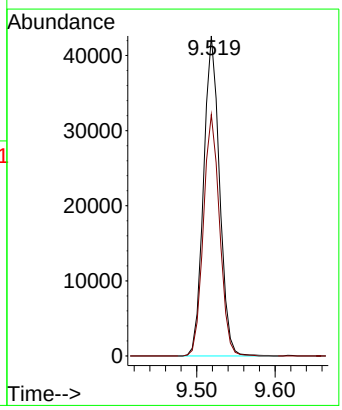


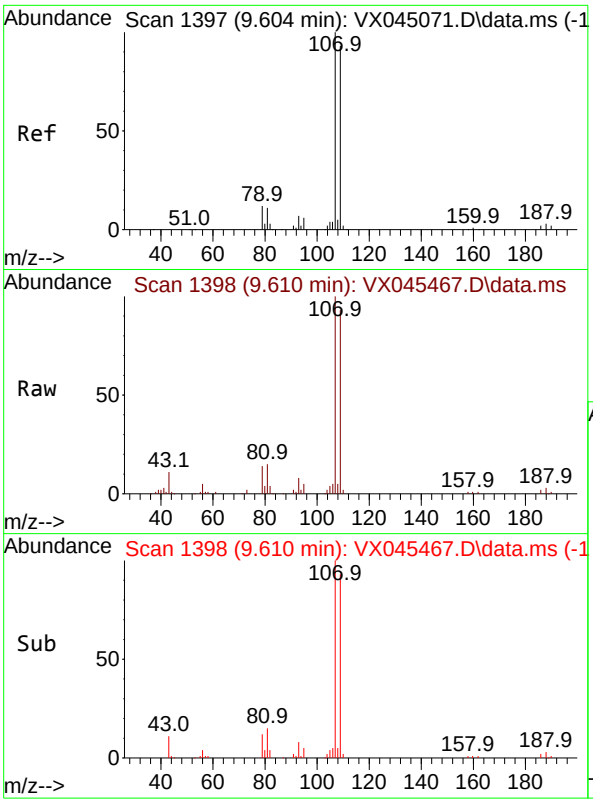


#60
Dibromochloromethane
Concen: 56.210 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:129 Resp: 60161

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.5	115.5



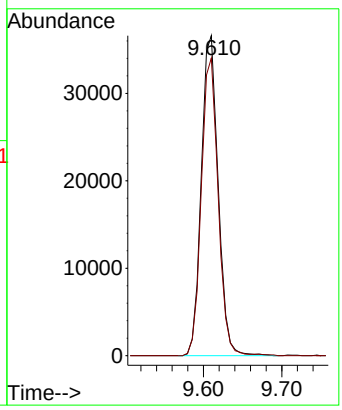


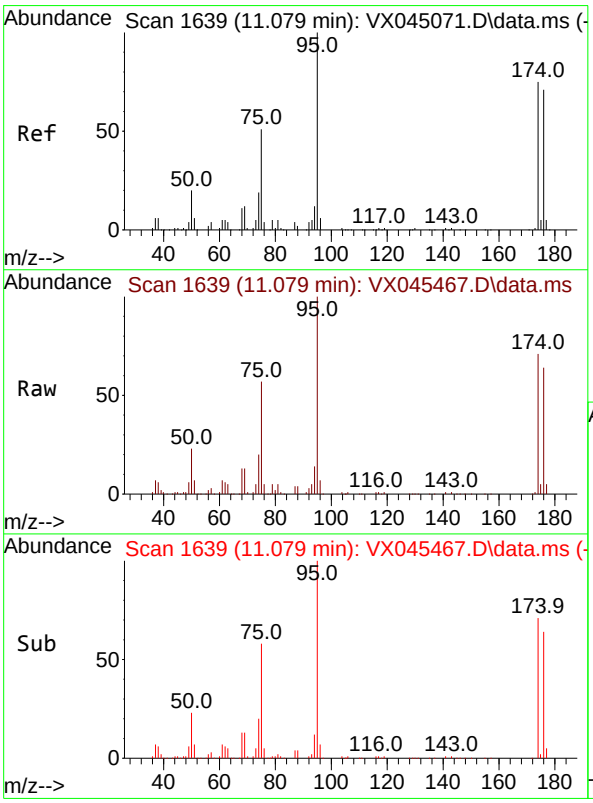
#61
1,2-Dibromoethane
Concen: 53.511 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:107 Resp: 54681

Ion	Ratio	Lower	Upper
107	100		
109	92.8	76.1	114.1

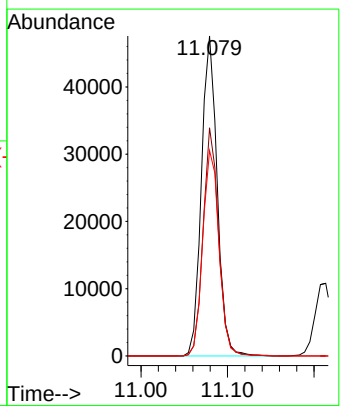


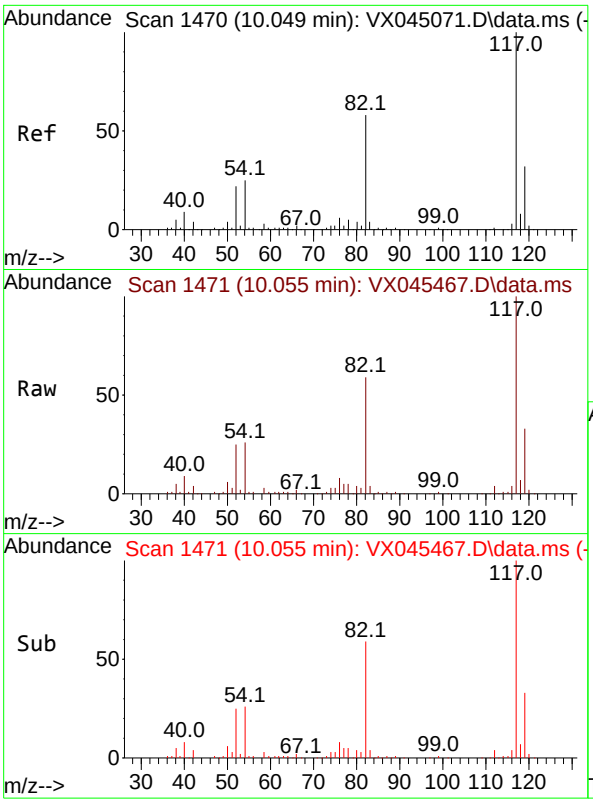


#62
4-Bromofluorobenzene
Concen: 51.123 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 95 Resp: 60102

Ion	Ratio	Lower	Upper
95	100		
174	70.1	0.0	148.2
176	66.6	0.0	141.4



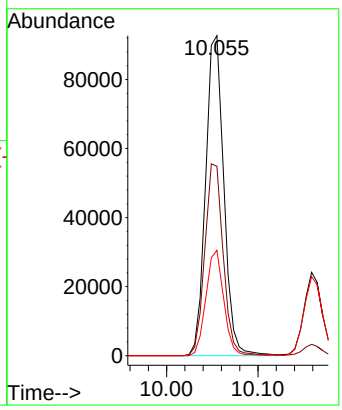


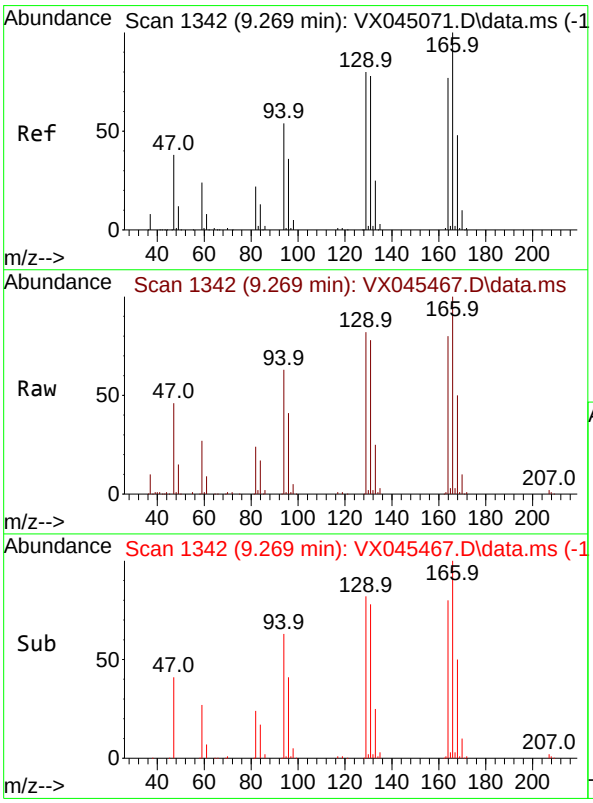
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:117 Resp: 128351

Ion	Ratio	Lower	Upper
117	100		
82	59.2	46.3	69.5
119	33.0	25.7	38.5

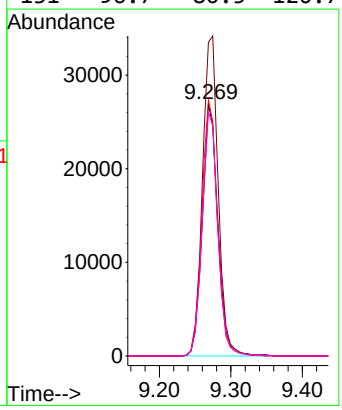


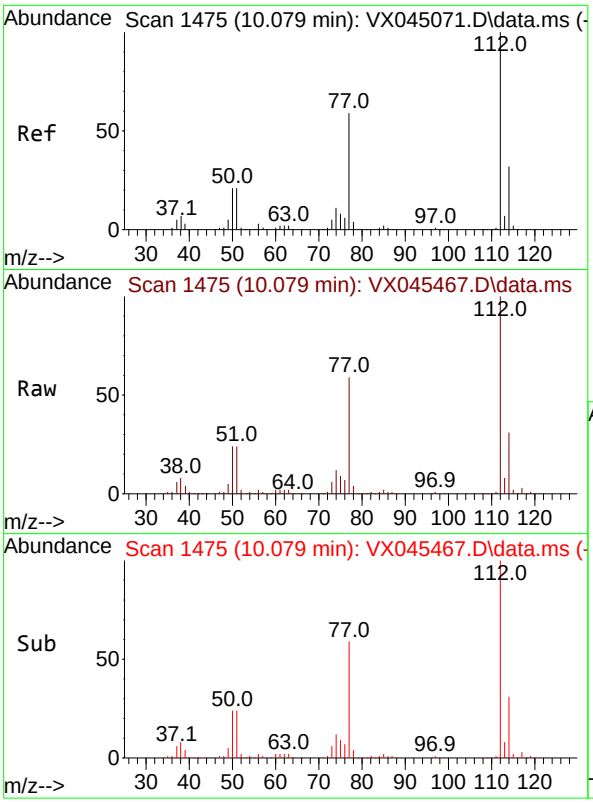


#64
Tetrachloroethene
Concen: 49.320 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:164 Resp: 40543

Ion	Ratio	Lower	Upper
164	100		
166	124.5	103.6	155.4
129	101.5	82.7	124.1
131	96.7	80.5	120.7



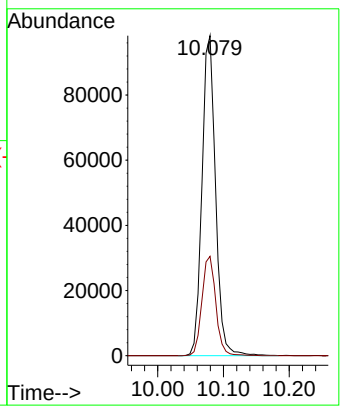


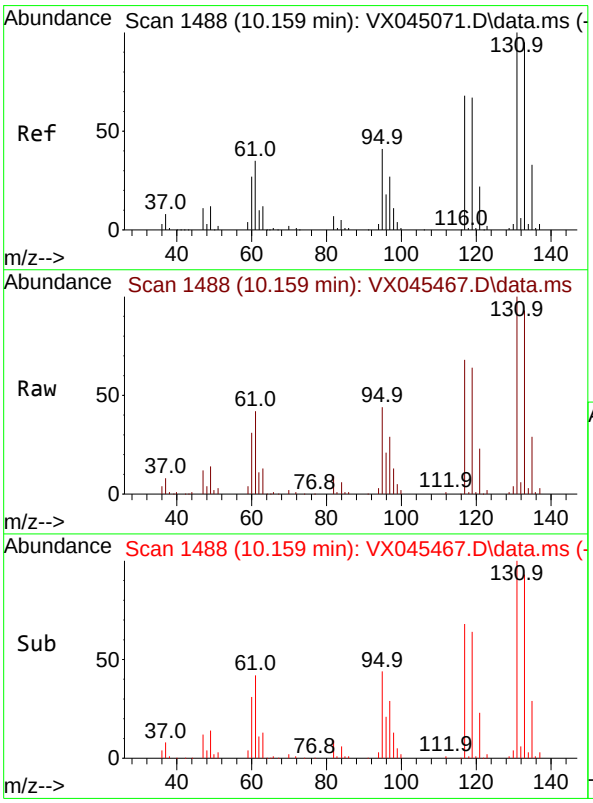
#65
Chlorobenzene
Concen: 51.830 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:112 Resp: 140765

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.0	39.0

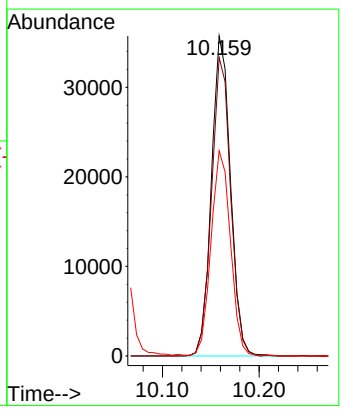


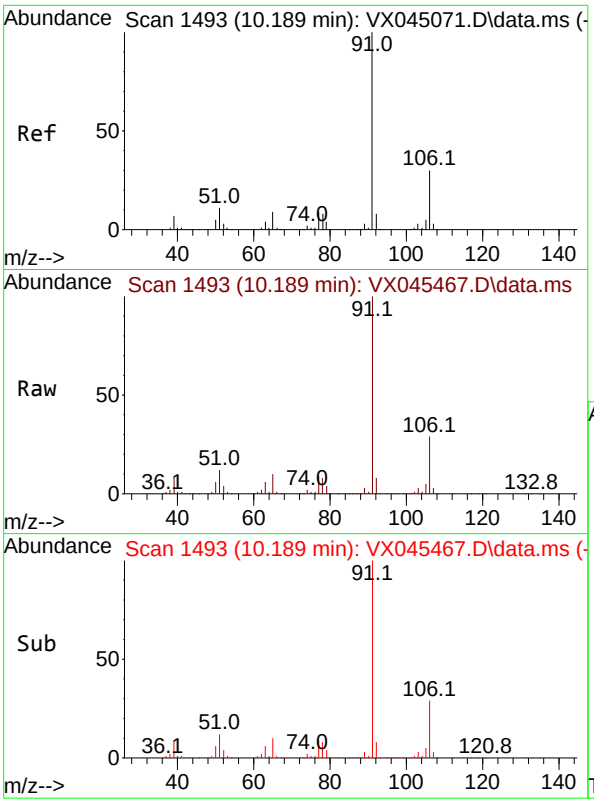


#66
1,1,1,2-Tetrachloroethane
Concen: 53.892 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:131 Resp: 48742

Ion	Ratio	Lower	Upper
131	100		
133	93.7	48.6	145.9
119	65.5	33.9	101.7



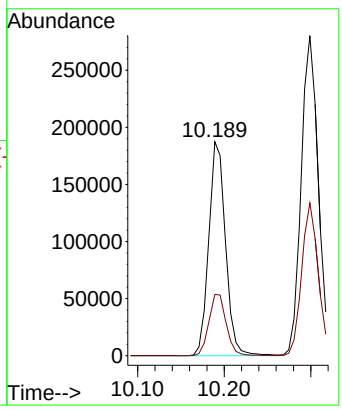


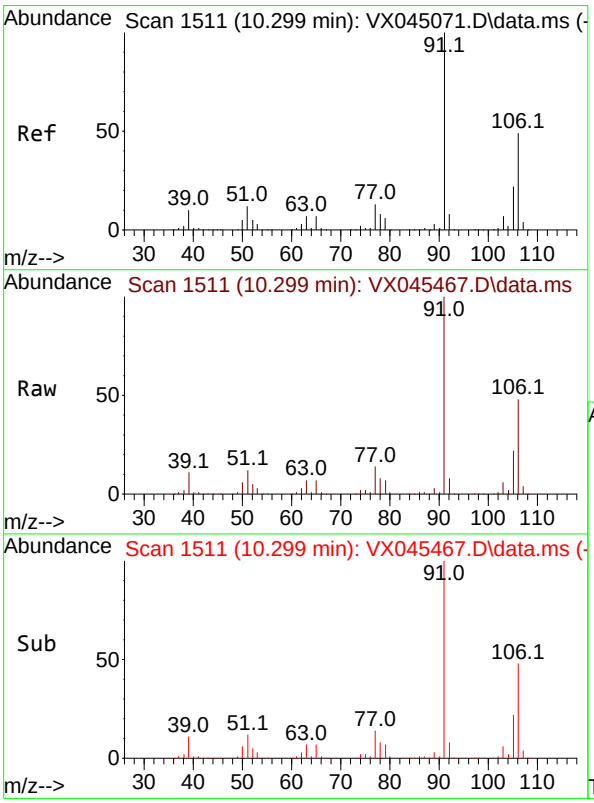
#67
Ethyl Benzene
Concen: 53.212 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 91 Resp: 251811

Ion	Ratio	Lower	Upper
91	100		
106	28.6	23.9	35.9

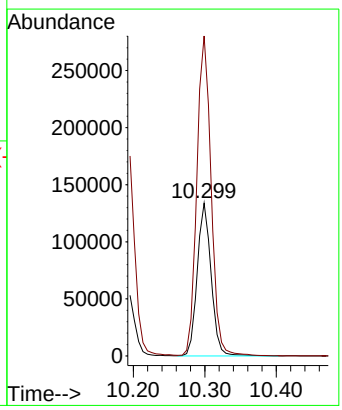


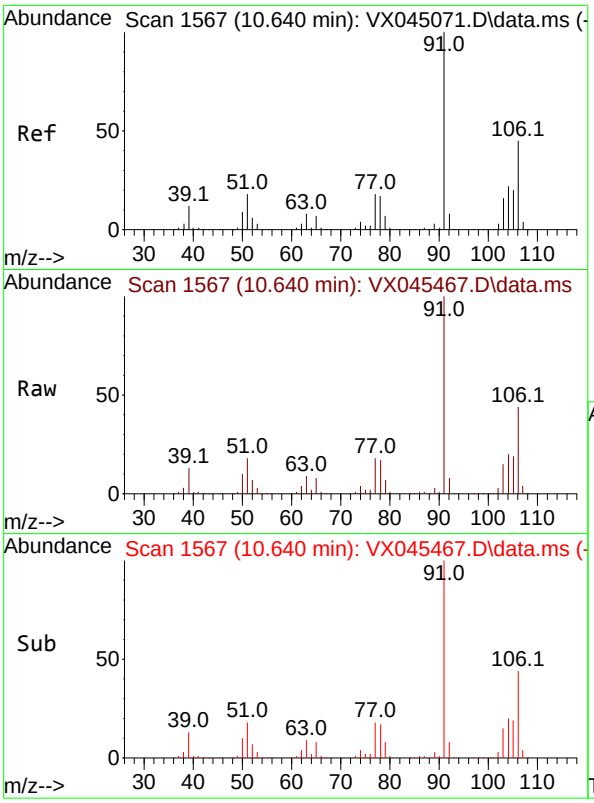


#68
m/p-Xylenes
Concen: 103.899 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:106 Resp: 179991

Ion	Ratio	Lower	Upper
106	100		
91	215.8	165.4	248.0



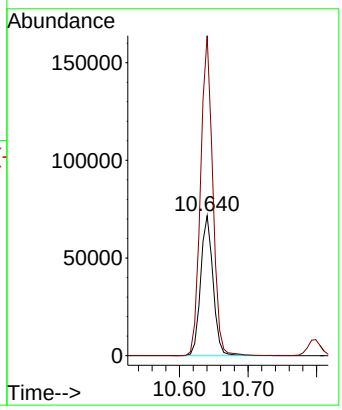


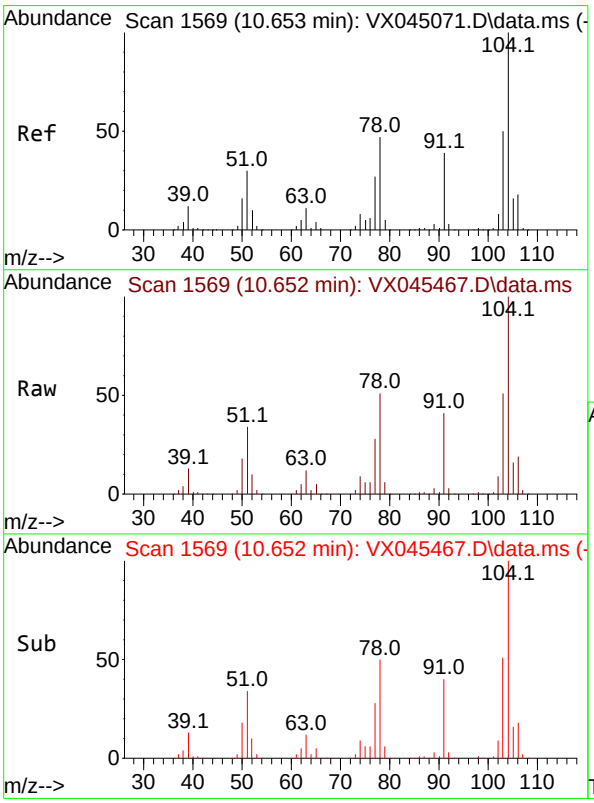
#69
o-Xylene
Concen: 51.655 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:106 Resp: 90251

Ion	Ratio	Lower	Upper
106	100		
91	225.4	109.9	329.6

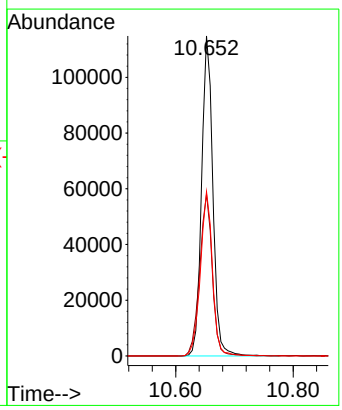


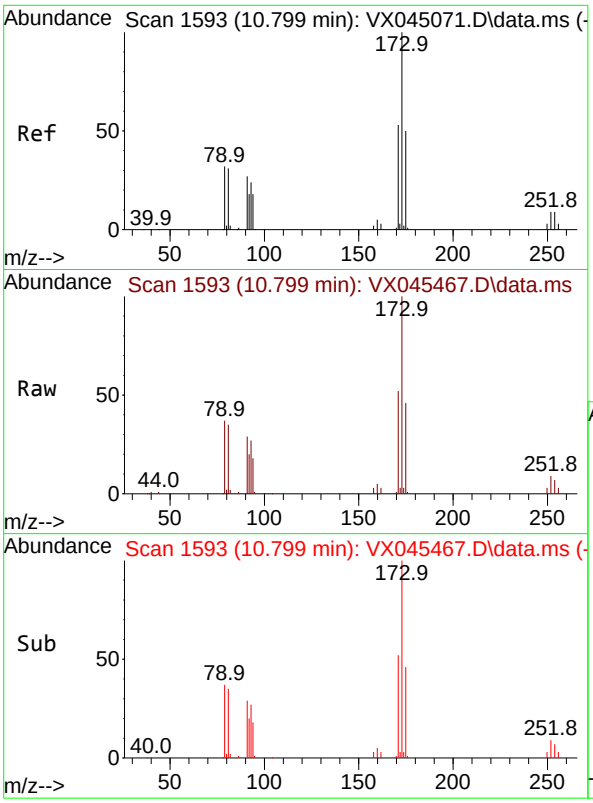


#70
Styrene
Concen: 54.010 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:104 Resp: 152690

Ion	Ratio	Lower	Upper
104	100		
78	56.5	42.2	63.4
103	55.2	43.8	65.8



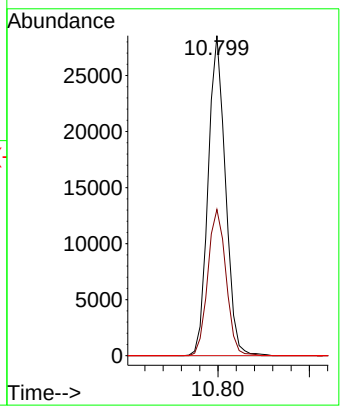


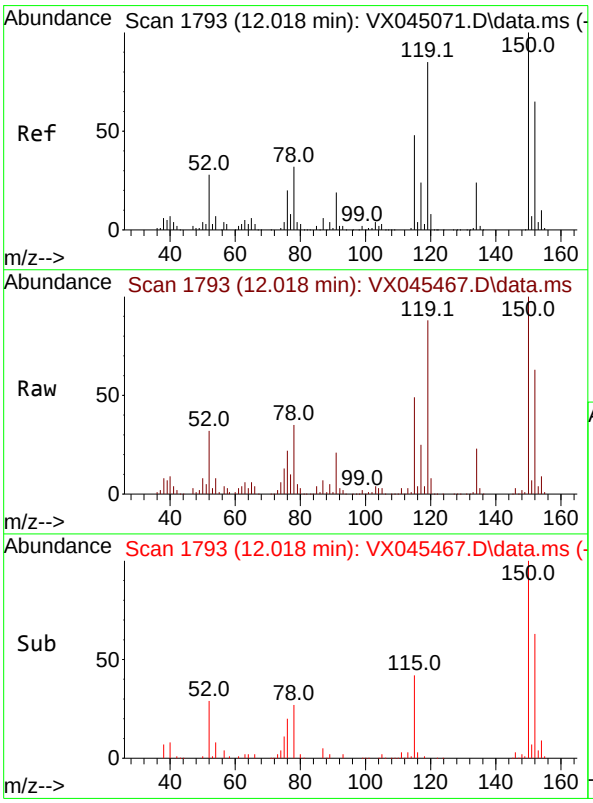
#71
Bromoform
Concen: 54.901 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:173 Resp: 37444

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.6	73.6
254	0.0	0.0	0.0

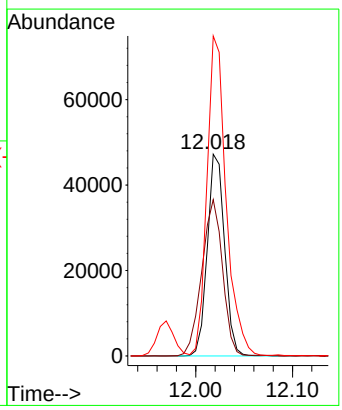


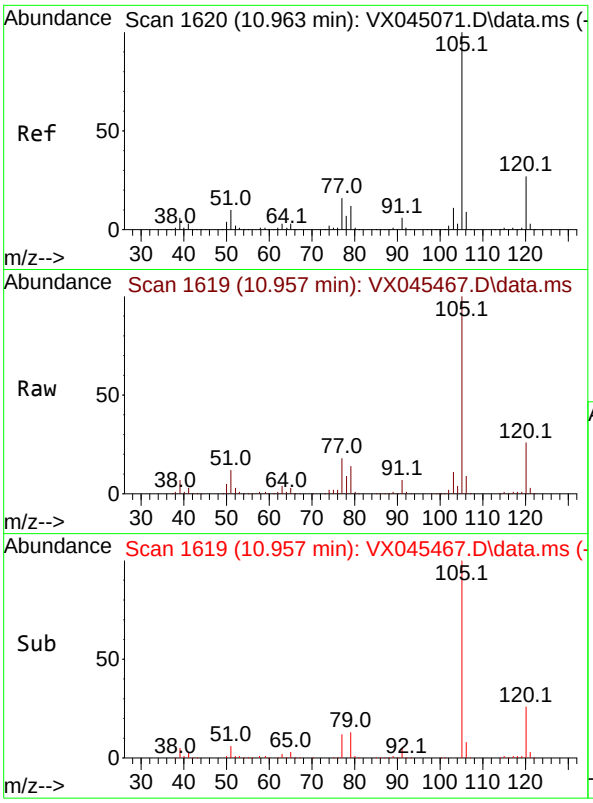


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:152 Resp: 58769

Ion	Ratio	Lower	Upper
152	100		
115	93.0	44.2	132.6
150	175.0	0.0	349.0



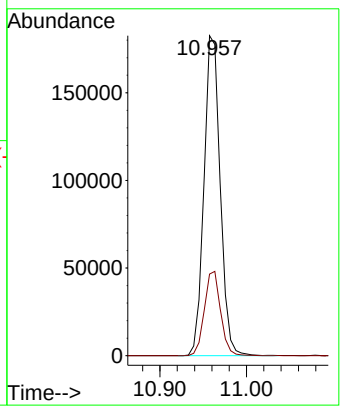


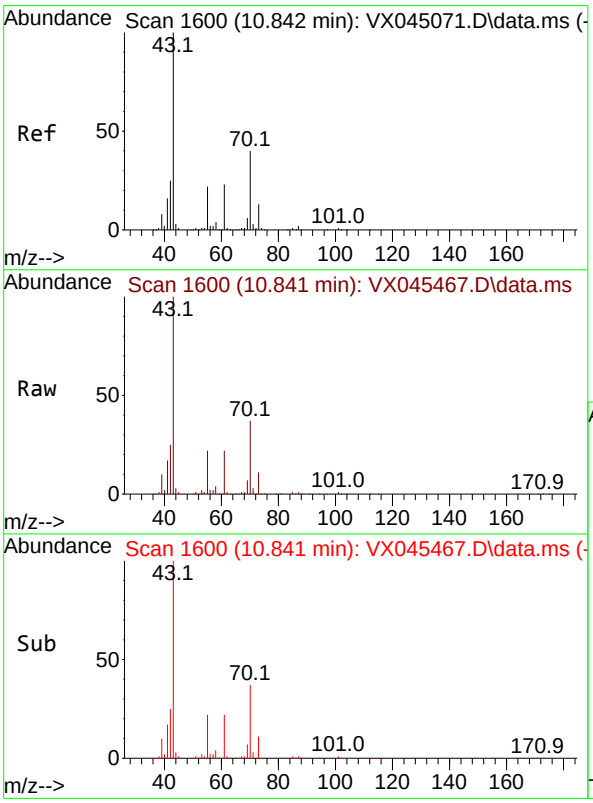
#73
Isopropylbenzene
Concen: 51.783 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:105 Resp: 237533

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

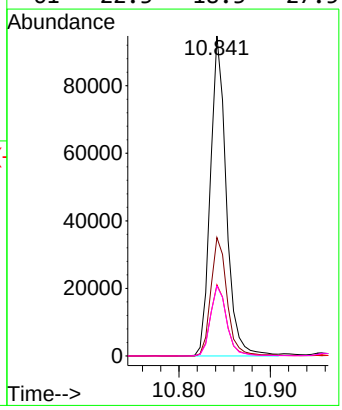


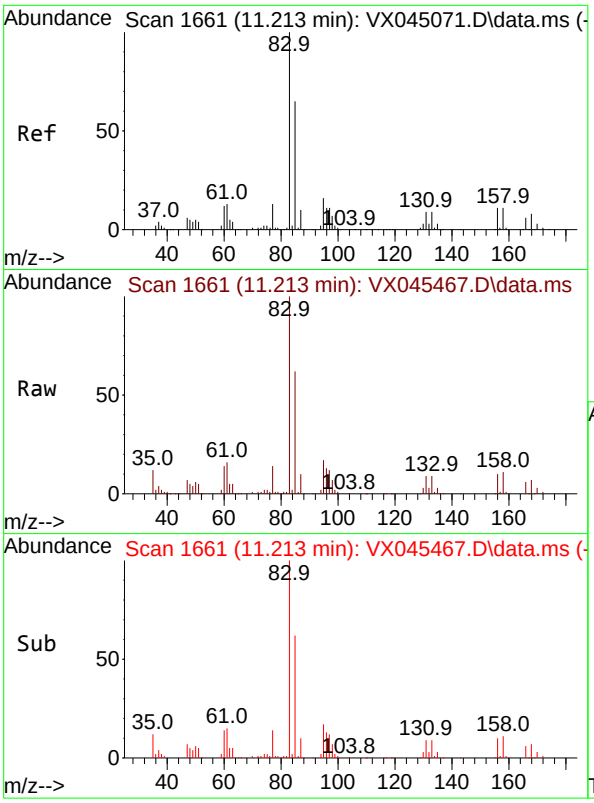


#74
N-amyl acetate
Concen: 53.205 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 43 Resp: 114520

Ion	Ratio	Lower	Upper
43	100		
70	38.0	31.8	47.6
55	22.9	18.3	27.5
61	22.3	18.3	27.5



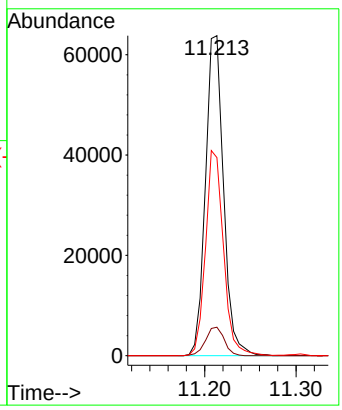


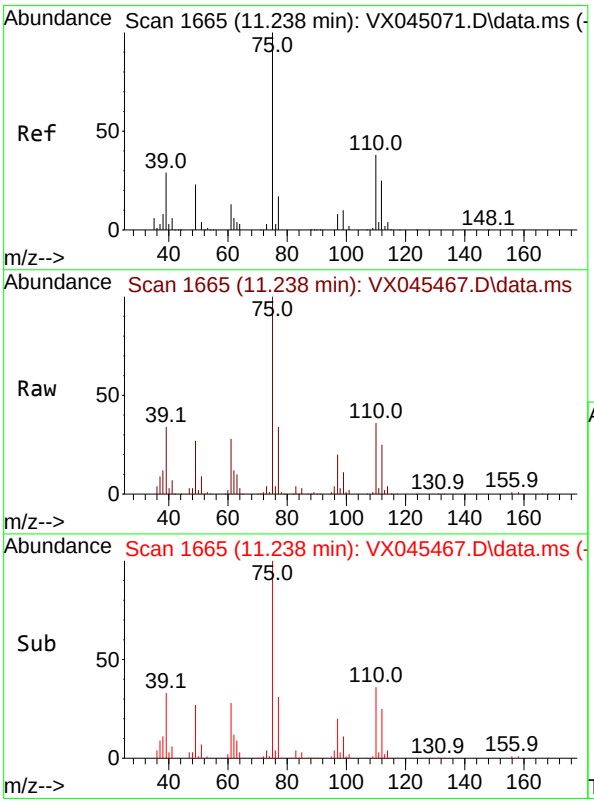
#75
1,1,2,2-Tetrachloroethane
Concen: 51.994 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 83 Resp: 87521

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	63.7	31.7	95.1

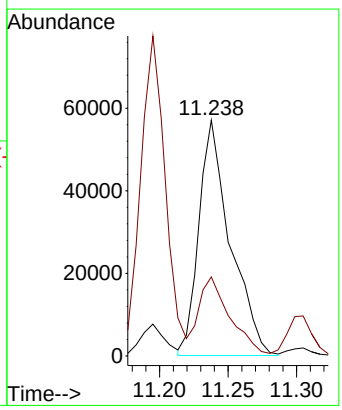


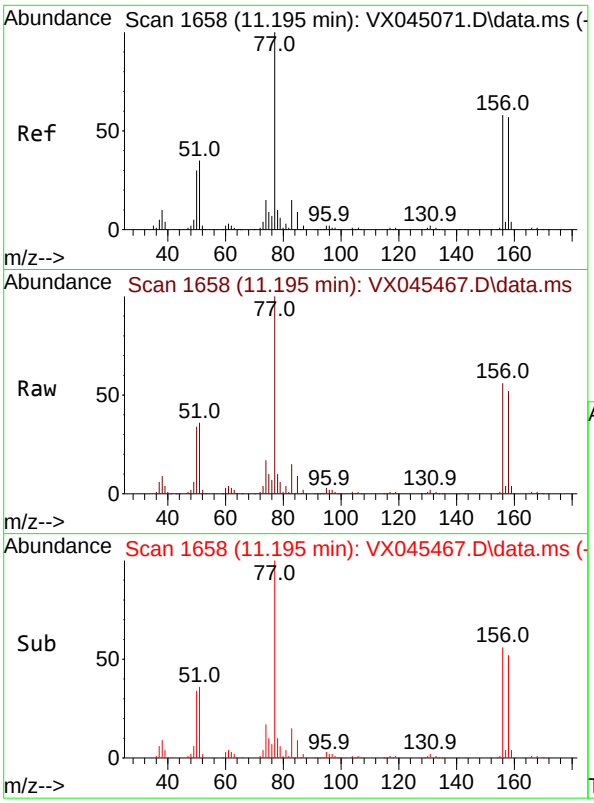


#76
1,2,3-Trichloropropane
Concen: 66.582 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 91074

Ion	Ratio	Lower	Upper
75	100		
77	33.7	20.7	62.1



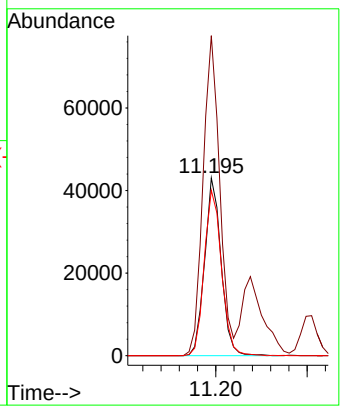


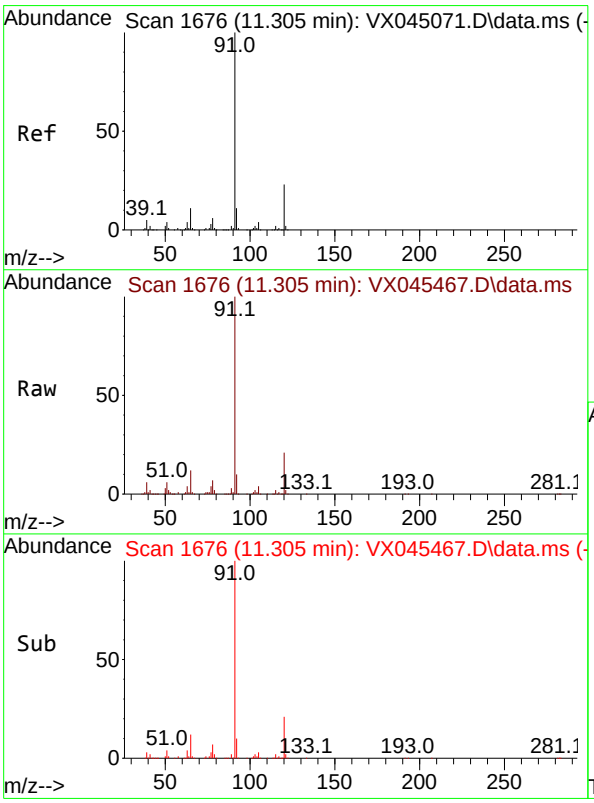
#77
Bromobenzene
Concen: 49.767 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:156 Resp: 53862

Ion	Ratio	Lower	Upper
156	100		
77	181.9	85.8	257.4
158	97.7	48.4	145.2

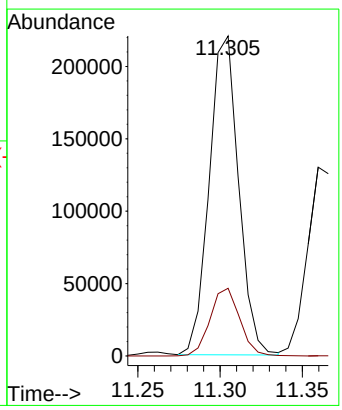


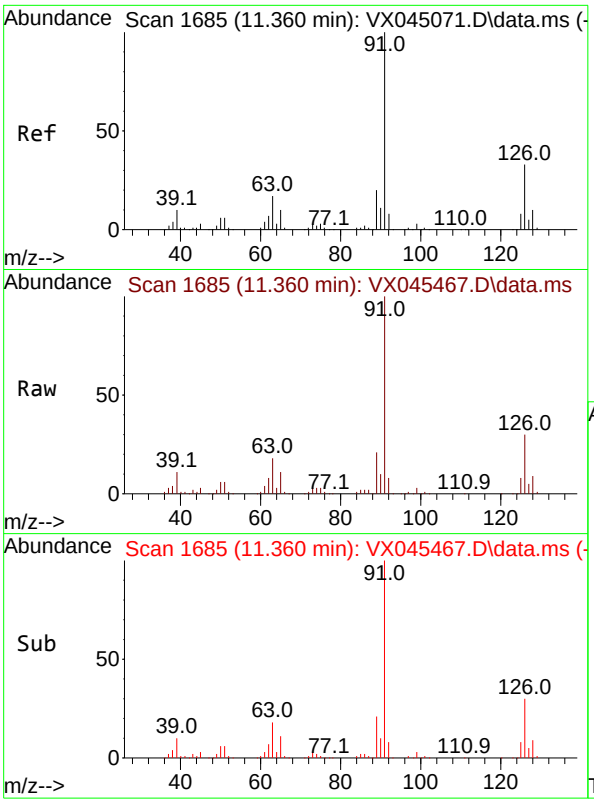


#78
n-propylbenzene
Concen: 52.890 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 91 Resp: 274062

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6



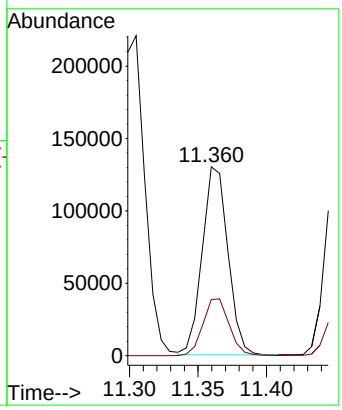


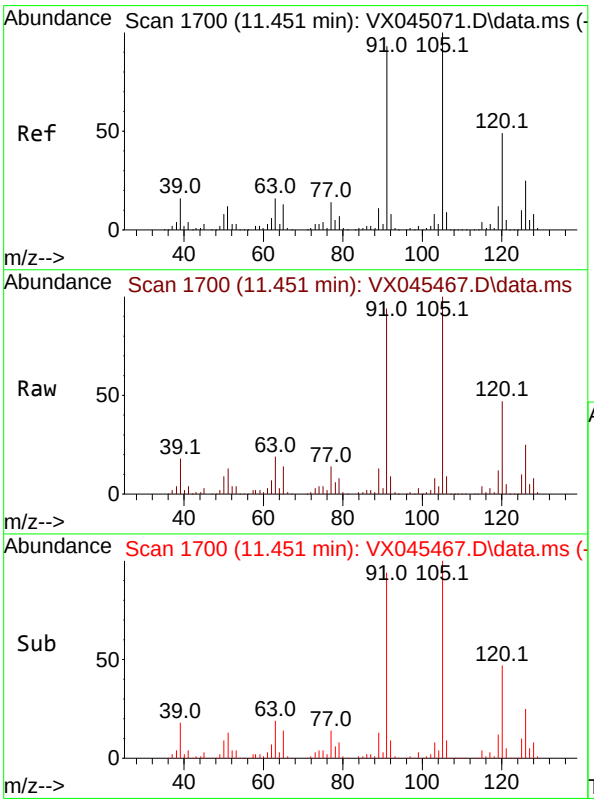
#79
2-Chlorotoluene
Concen: 51.404 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 91 Resp: 169636

Ion	Ratio	Lower	Upper
91	100		
126	31.0	16.4	49.4

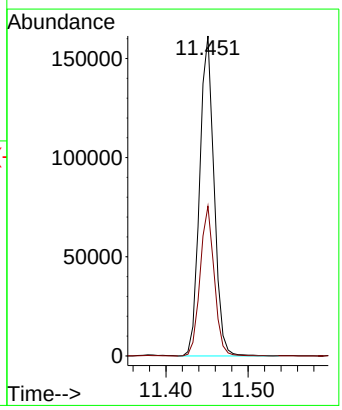


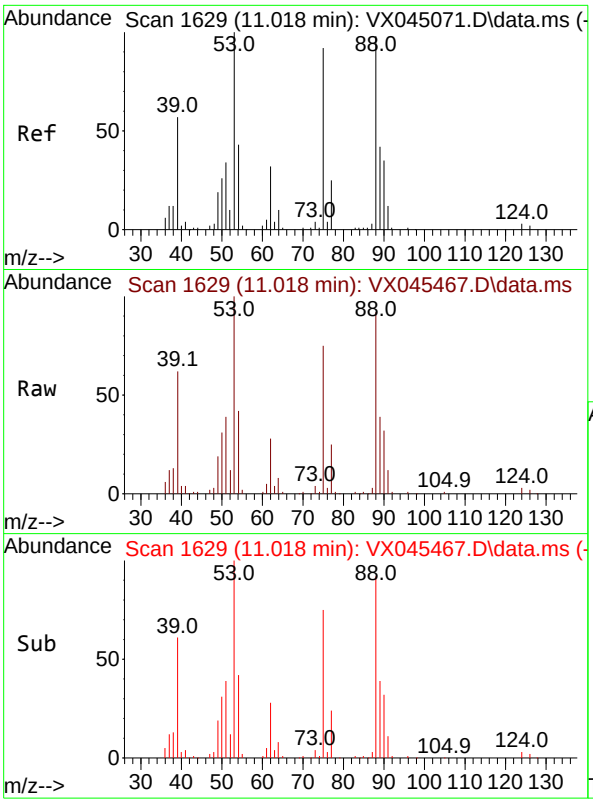


#80
1,3,5-Trimethylbenzene
Concen: 52.996 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:105 Resp: 196564

Ion	Ratio	Lower	Upper
105	100		
120	45.9	24.1	72.2



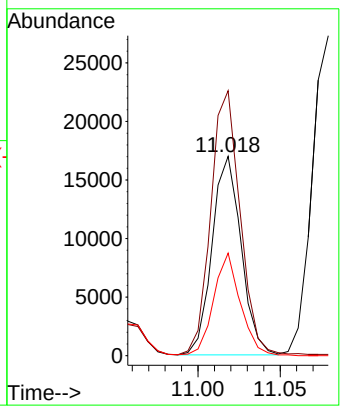


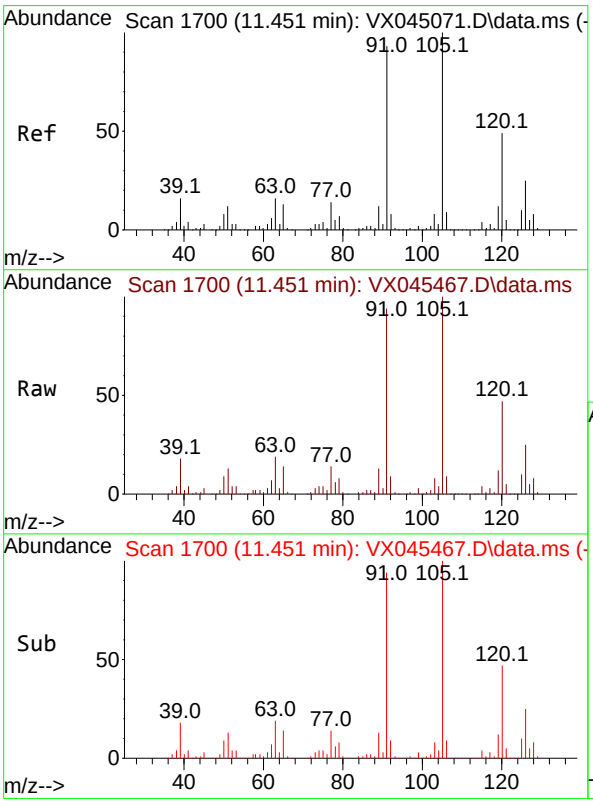
#81
trans-1,4-Dichloro-2-butene
Concen: 52.194 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 75 Resp: 20862

Ion	Ratio	Lower	Upper
75	100		
53	136.2	88.5	132.7#
89	47.8	36.2	54.4

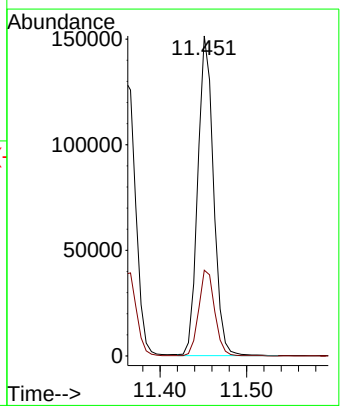


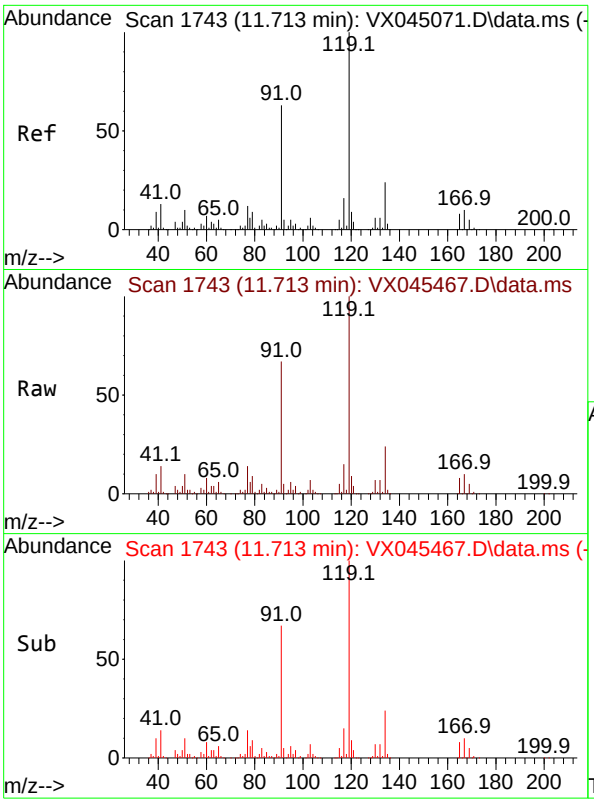


#82
4-Chlorotoluene
Concen: 52.974 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 91 Resp: 190526

Ion	Ratio	Lower	Upper
91	100		
126	27.5	14.1	42.4



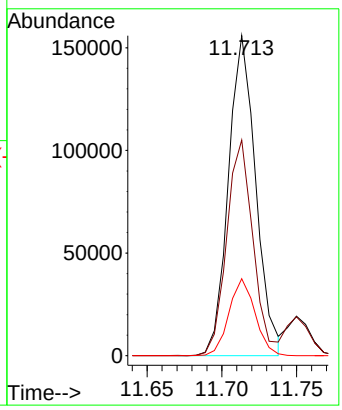


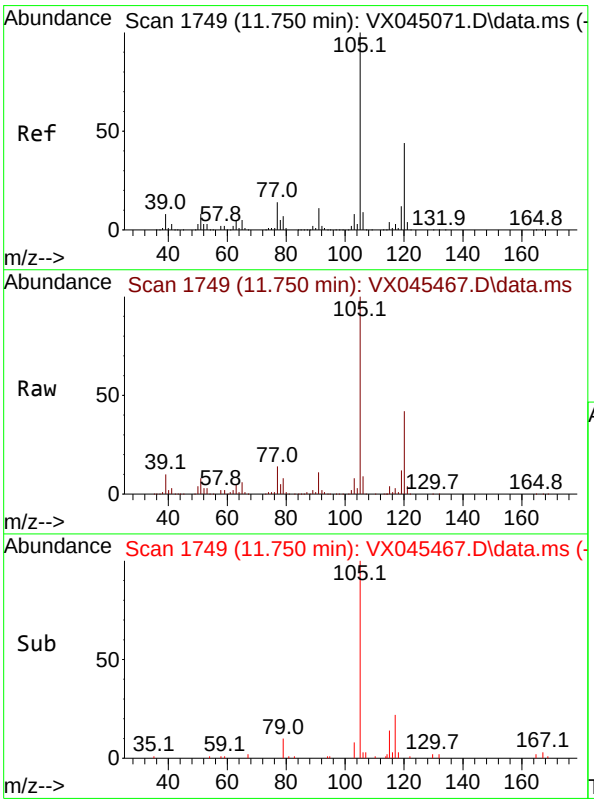
#83
tert-Butylbenzene
Concen: 52.050 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:119 Resp: 198359

Ion	Ratio	Lower	Upper
119	100		
91	65.1	30.7	92.1
134	23.0	11.7	35.0

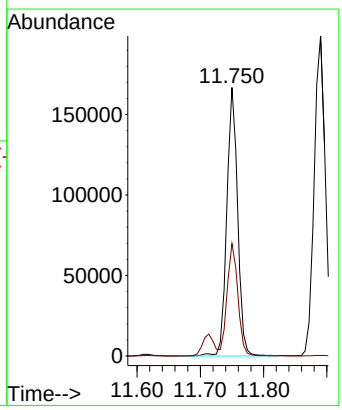


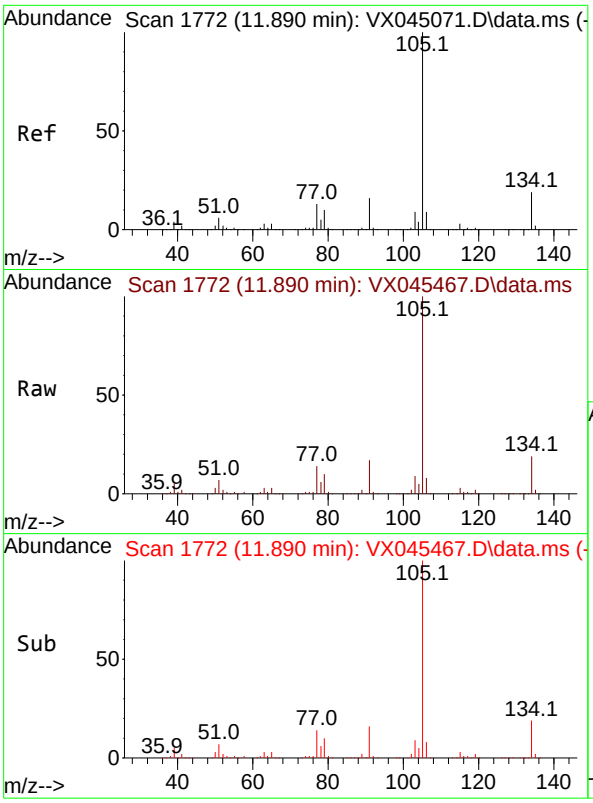


#84
1,2,4-Trimethylbenzene
Concen: 53.078 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:105 Resp: 198088

Ion	Ratio	Lower	Upper
105	100		
120	41.5	22.1	66.1



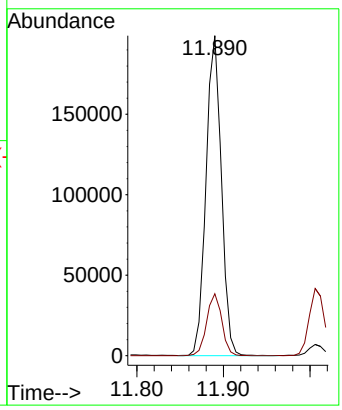


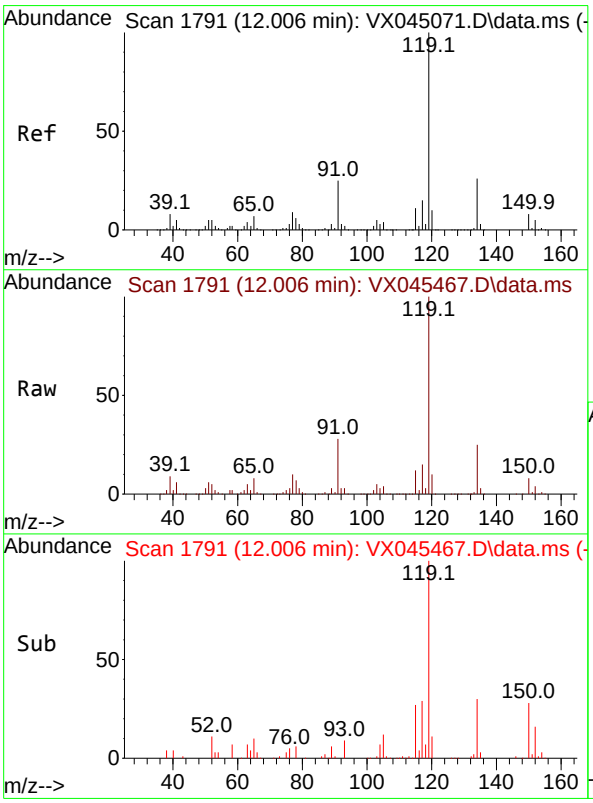
#85
sec-Butylbenzene
Concen: 53.627 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:105 Resp: 244804

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.4

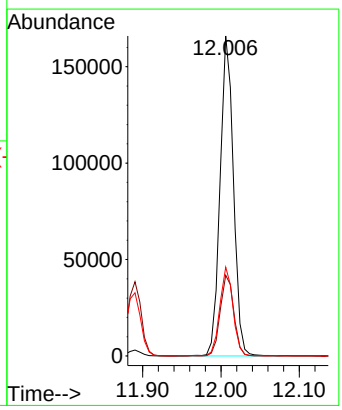


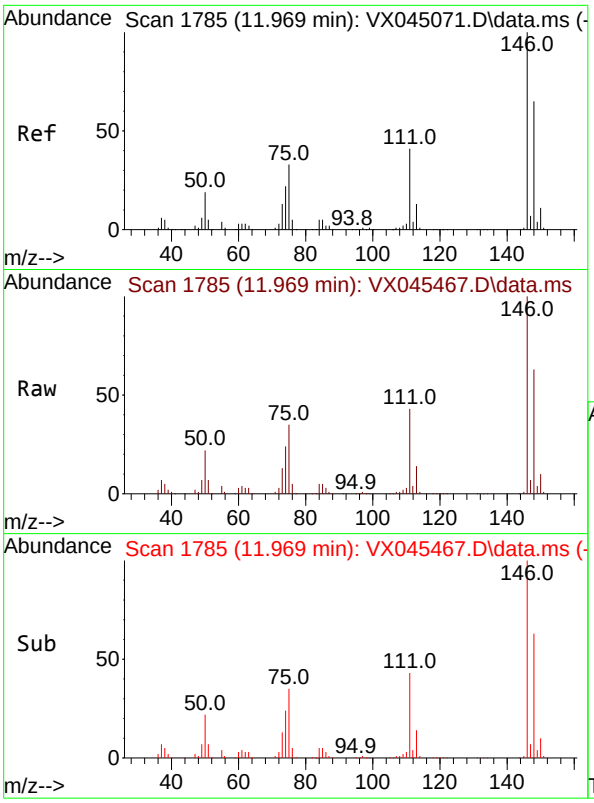


#86
p-Isopropyltoluene
Concen: 53.497 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:119 Resp: 197358

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.6
91	27.4	12.7	38.0



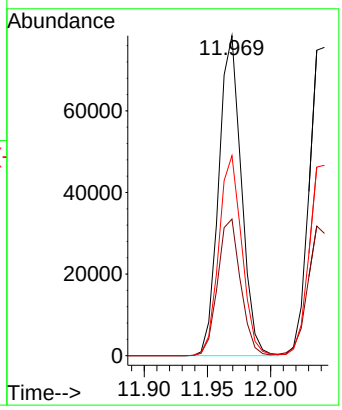


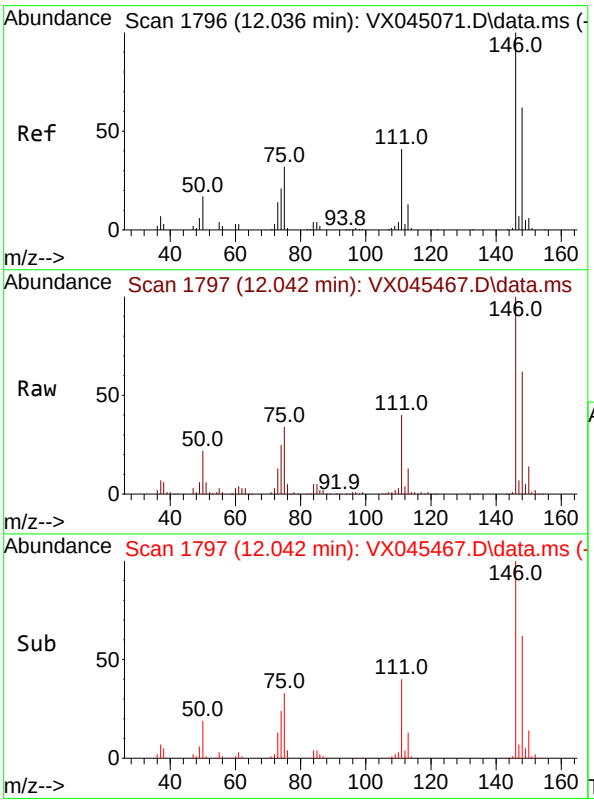
#87
1,3-Dichlorobenzene
Concen: 50.415 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:146 Resp: 97338

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.1	63.4
148	63.5	31.9	95.7

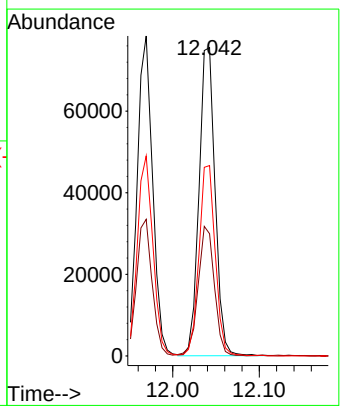


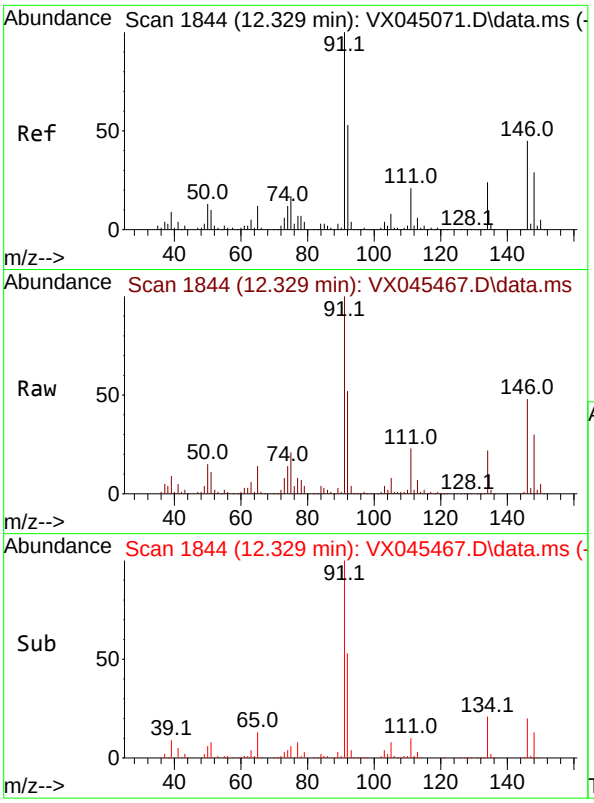


#88
1,4-Dichlorobenzene
Concen: 49.981 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:146 Resp: 97630

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.2	60.5
148	62.6	31.9	95.9



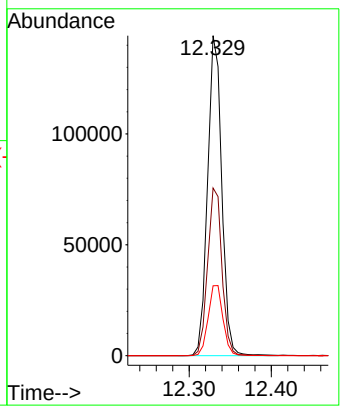


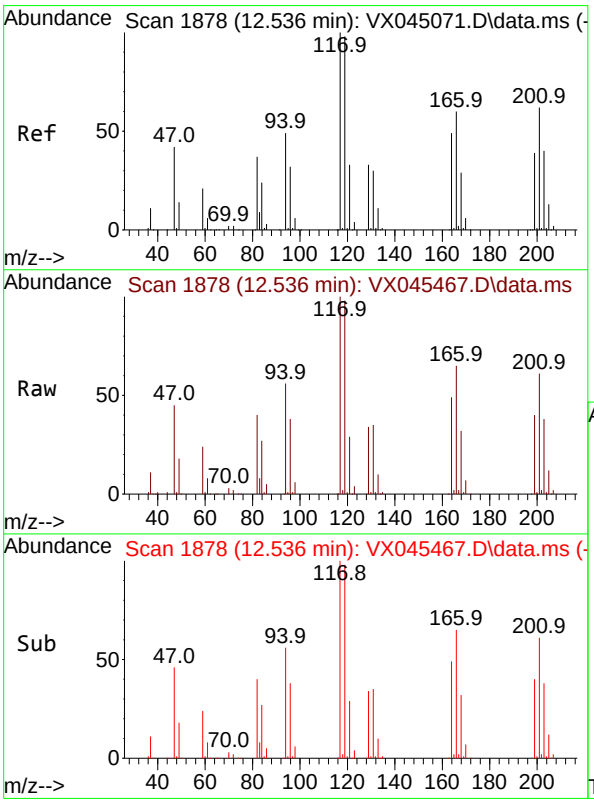
#89
n-Butylbenzene
Concen: 54.229 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion: 91 Resp: 172306

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.7	80.0
134	23.0	12.2	36.6

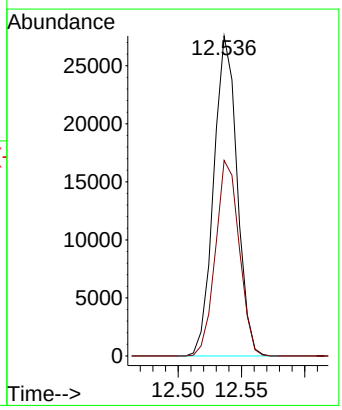


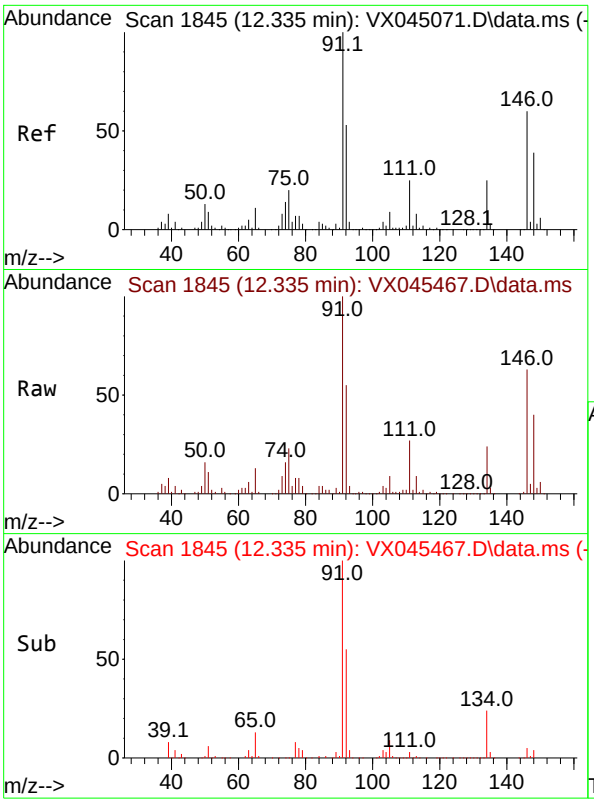


#90
Hexachloroethane
Concen: 52.984 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:117 Resp: 35355

Ion	Ratio	Lower	Upper
117	100		
201	62.1	31.9	95.9



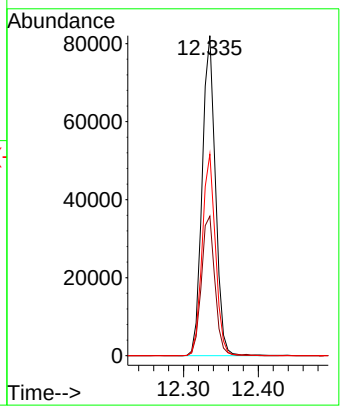


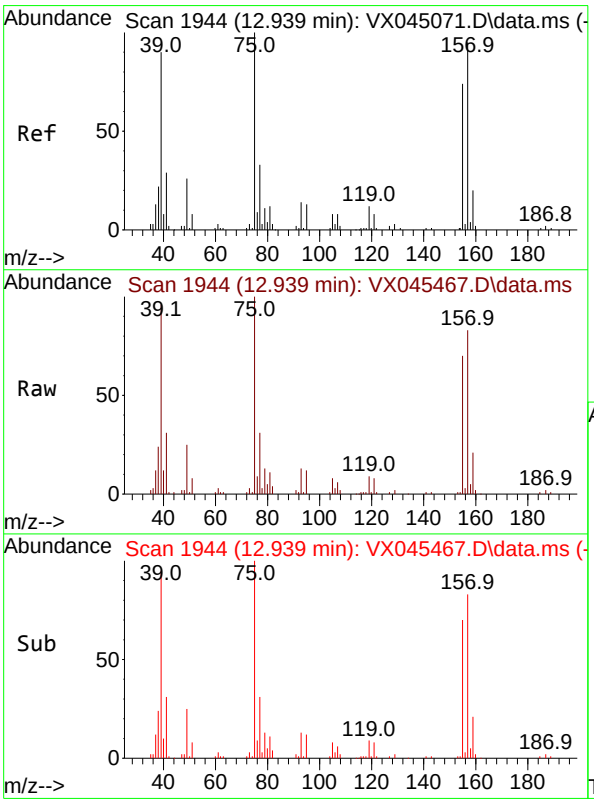
#91
1,2-Dichlorobenzene
Concen: 52.253 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:146 Resp: 101203

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.6	65.0
148	63.0	31.9	95.9

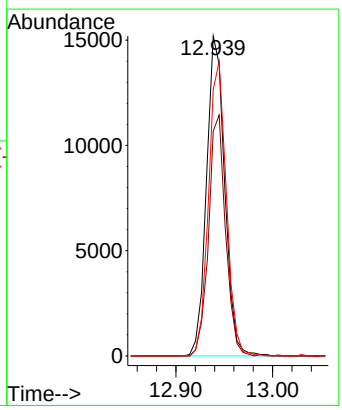


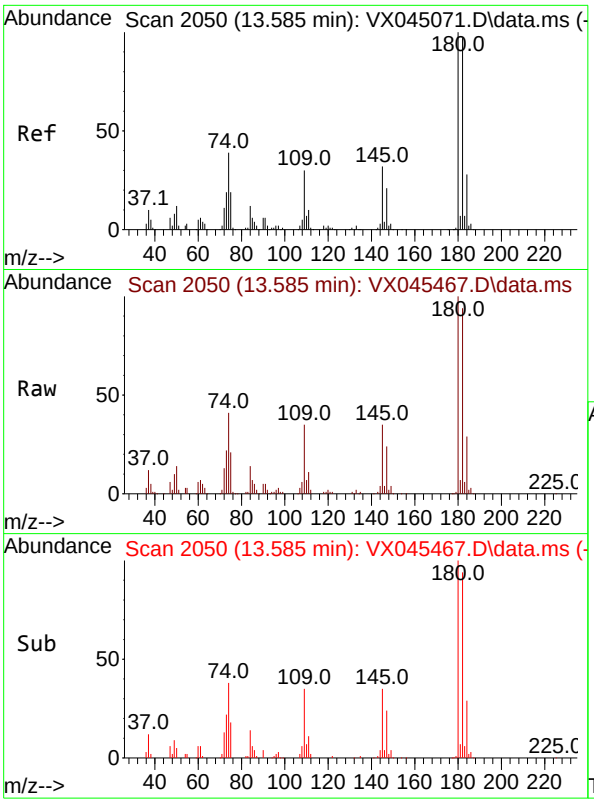


#92
1,2-Dibromo-3-Chloropropane
Concen: 60.728 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion: 75 Resp: 19915

Ion	Ratio	Lower	Upper
75	100		
155	70.2	39.6	118.7
157	90.0	51.1	153.4



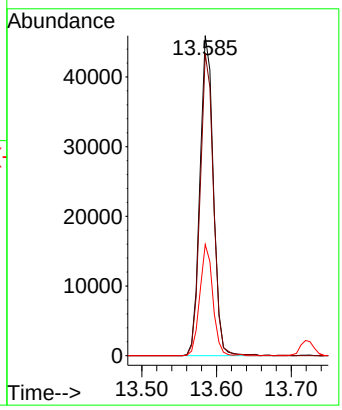


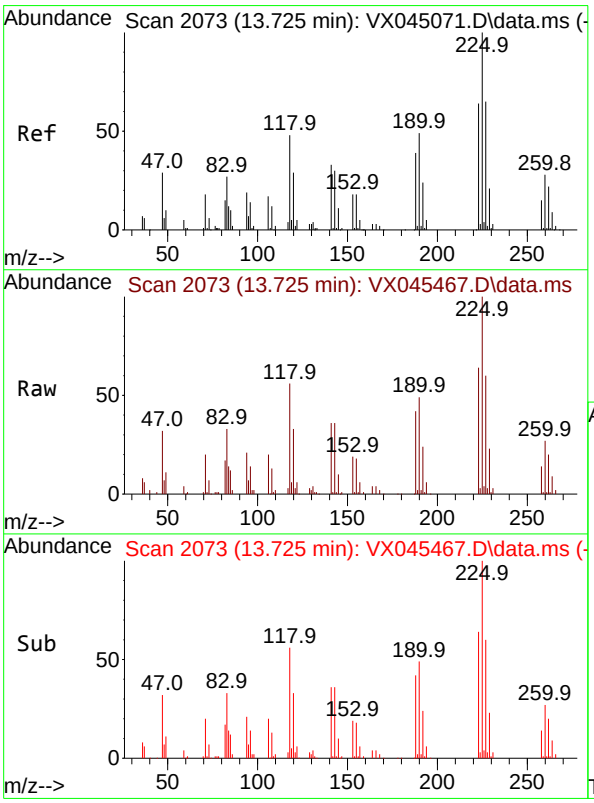
#93
1,2,4-Trichlorobenzene
Concen: 51.846 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:180 Resp: 57177

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	141.9
145	33.8	16.3	48.9

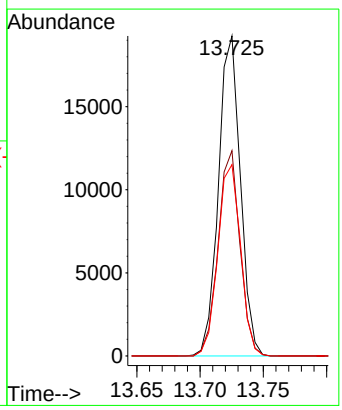


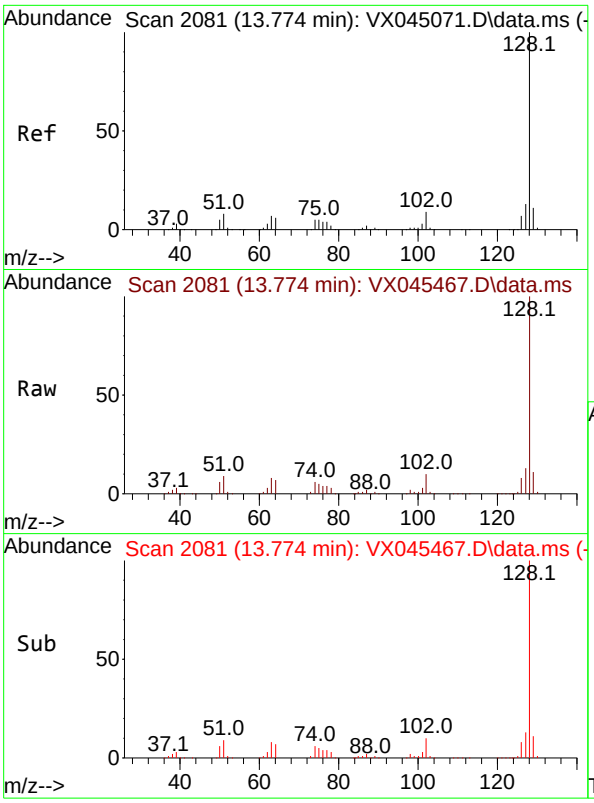


#94
Hexachlorobutadiene
Concen: 51.276 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:225 Resp: 23184

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.9	95.7
227	61.9	31.4	94.0



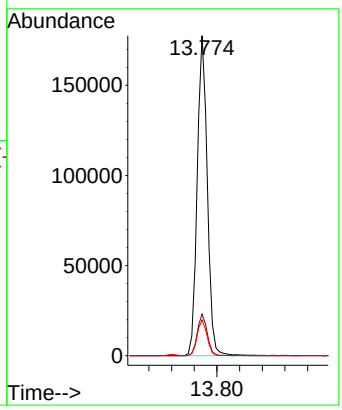


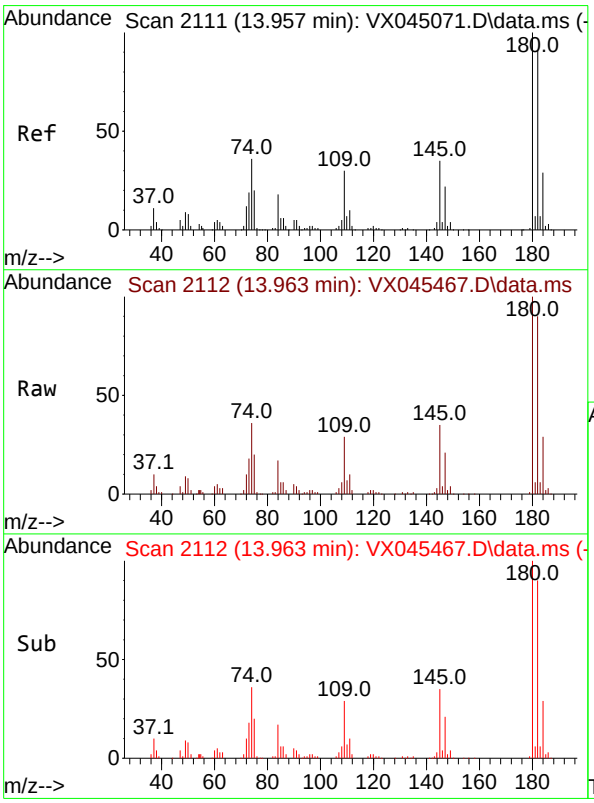
#95
Naphthalene
Concen: 51.735 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MS

Tgt Ion:128 Resp: 219209

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	11.0	8.7	13.1

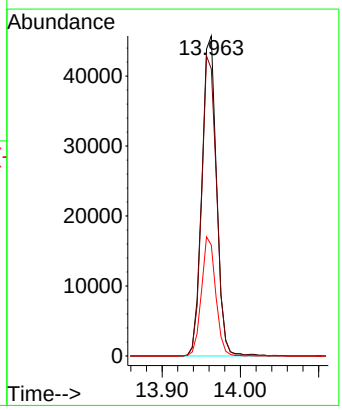




#96
1,2,3-Trichlorobenzene
Concen: 51.113 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045467.D
Acq: 26 Mar 2025 14:06

Tgt Ion:180 Resp: 59466

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.5	142.6
145	36.0	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	78228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	141777	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	126420	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	70110	56.344	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.680%			
35) Dibromofluoromethane	5.379	113	50243	52.997	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.000%			
50) Toluene-d8	8.647	98	172507	50.192	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.380%			
62) 4-Bromofluorobenzene	11.079	95	65522	57.531	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 115.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	63976	64.970	ug/l	96
3) Chloromethane	1.307	50	66586	55.255	ug/l	98
4) Vinyl Chloride	1.374	62	62230	52.056	ug/l	98
5) Bromomethane	1.593	94	28172	59.947	ug/l	98
6) Chloroethane	1.660	64	30146	54.671	ug/l	97
7) Trichlorofluoromethane	1.868	101	90306	57.064	ug/l	98
8) Diethyl Ether	2.136	74	30648	49.512	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.313	101	57678	63.438	ug/l	98
10) Methyl Iodide	2.441	142	71045	62.527	ug/l	95
11) Tert butyl alcohol	2.989	59	65545	278.091	ug/l	98
12) 1,1-Dichloroethene	2.307	96	54875	57.087	ug/l	90
13) Acrolein	2.239	56	68260	250.534	ug/l	99
14) Allyl chloride	2.654	41	104862	61.284	ug/l	94
15) Acrylonitrile	3.062	53	182139	288.335	ug/l	98
16) Acetone	2.386	43	174752	302.689	ug/l	95
17) Carbon Disulfide	2.502	76	134555	52.555	ug/l	97
18) Methyl Acetate	2.703	43	71126	51.211	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	188109	58.328	ug/l	99
20) Methylene Chloride	2.782	84	62947	55.042	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	54567	57.460	ug/l	94
22) Diisopropyl ether	3.764	45	202733	58.258	ug/l	94
23) Vinyl Acetate	3.721	43	846377	291.450	ug/l	99
24) 1,1-Dichloroethane	3.605	63	112537	57.703	ug/l	100
25) 2-Butanone	4.562	43	265671	305.711	ug/l	98
26) 2,2-Dichloropropane	4.471	77	75408	82.434	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	66711	56.906	ug/l	93
28) Bromochloromethane	4.898	49	46062	49.551	ug/l	98
29) Tetrahydrofuran	5.007	42	168372	288.508	ug/l	99
30) Chloroform	5.087	83	115410	59.557	ug/l	98
31) Cyclohexane	5.458	56	98225	58.020	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	97027	61.995	ug/l	97
36) 1,1-Dichloropropene	5.690	75	74241	57.103	ug/l	99
37) Ethyl Acetate	4.715	43	92572	55.257	ug/l	98
38) Carbon Tetrachloride	5.672	117	80831	61.239	ug/l	97
39) Methylcyclohexane	7.373	83	95012	60.989	ug/l	96
40) Benzene	6.031	78	231971	56.503	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	56406	62.268	ug/l		98
42) 1,2-Dichloroethane	6.086	62	95787	64.791	ug/l		96
43) Isopropyl Acetate	6.342	43	146559	59.161	ug/l		99
44) Trichloroethene	7.123	130	58258	60.433	ug/l		98
45) 1,2-Dichloropropane	7.428	63	59906	56.753	ug/l		99
46) Dibromomethane	7.580	93	45521	61.013	ug/l		96
47) Bromodichloromethane	7.818	83	89304	61.024	ug/l		99
48) Methyl methacrylate	7.690	41	80811	65.022	ug/l		94
49) 1,4-Dioxane	7.659	88	32939	1256.441	ug/l		94
51) 4-Methyl-2-Pentanone	8.574	43	525454	315.900	ug/l		99
52) Toluene	8.714	92	142393	59.114	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	79170	64.712	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	89949	63.050	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	57314	57.798	ug/l		97
56) Ethyl methacrylate	9.116	69	96679	64.139	ug/l		93
57) 1,3-Dichloropropane	9.305	76	101131	58.931	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.171	63	510	0.694	ug/l	#	48
59) 2-Hexanone	9.433	43	392557	325.728	ug/l		98
60) Dibromochloromethane	9.519	129	63988	61.714	ug/l		99
61) 1,2-Dibromoethane	9.610	107	58855	59.453	ug/l		99
64) Tetrachloroethene	9.269	164	45897	56.686	ug/l		97
65) Chlorobenzene	10.079	112	156019	58.324	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	52764	59.230	ug/l		96
67) Ethyl Benzene	10.189	91	278593	59.770	ug/l		97
68) m/p-Xylenes	10.299	106	202838	118.876	ug/l		94
69) o-Xylene	10.640	106	101021	58.702	ug/l		96
70) Styrene	10.653	104	169533	60.884	ug/l		97
71) Bromoform	10.799	173	40637	60.492	ug/l	#	100
73) Isopropylbenzene	10.957	105	265519	58.007	ug/l		98
74) N-amyl acetate	10.842	43	124302	57.873	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	92728	55.205	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	98126	71.890	ug/l		85
77) Bromobenzene	11.195	156	59315	54.922	ug/l		94
78) n-propylbenzene	11.305	91	309849	59.924	ug/l		98
79) 2-Chlorotoluene	11.360	91	188852	57.349	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	222054	59.996	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	23021	57.718	ug/l		86
82) 4-Chlorotoluene	11.451	91	213558	59.504	ug/l		98
83) tert-Butylbenzene	11.713	119	219401	57.694	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	221950	59.599	ug/l		98
85) sec-Butylbenzene	11.890	105	273244	59.984	ug/l		98
86) p-Isopropyltoluene	12.006	119	221416	60.146	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	107816	55.961	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	106898	54.842	ug/l		98
89) n-Butylbenzene	12.329	91	196457	61.962	ug/l		99
90) Hexachloroethane	12.536	117	38979	58.539	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	109816	56.821	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21122	64.546	ug/l		91
93) 1,2,4-Trichlorobenzene	13.585	180	61430	55.821	ug/l		99
94) Hexachlorobutadiene	13.725	225	25376	56.244	ug/l		98
95) Naphthalene	13.774	128	238208	56.338	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	63386	54.598	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

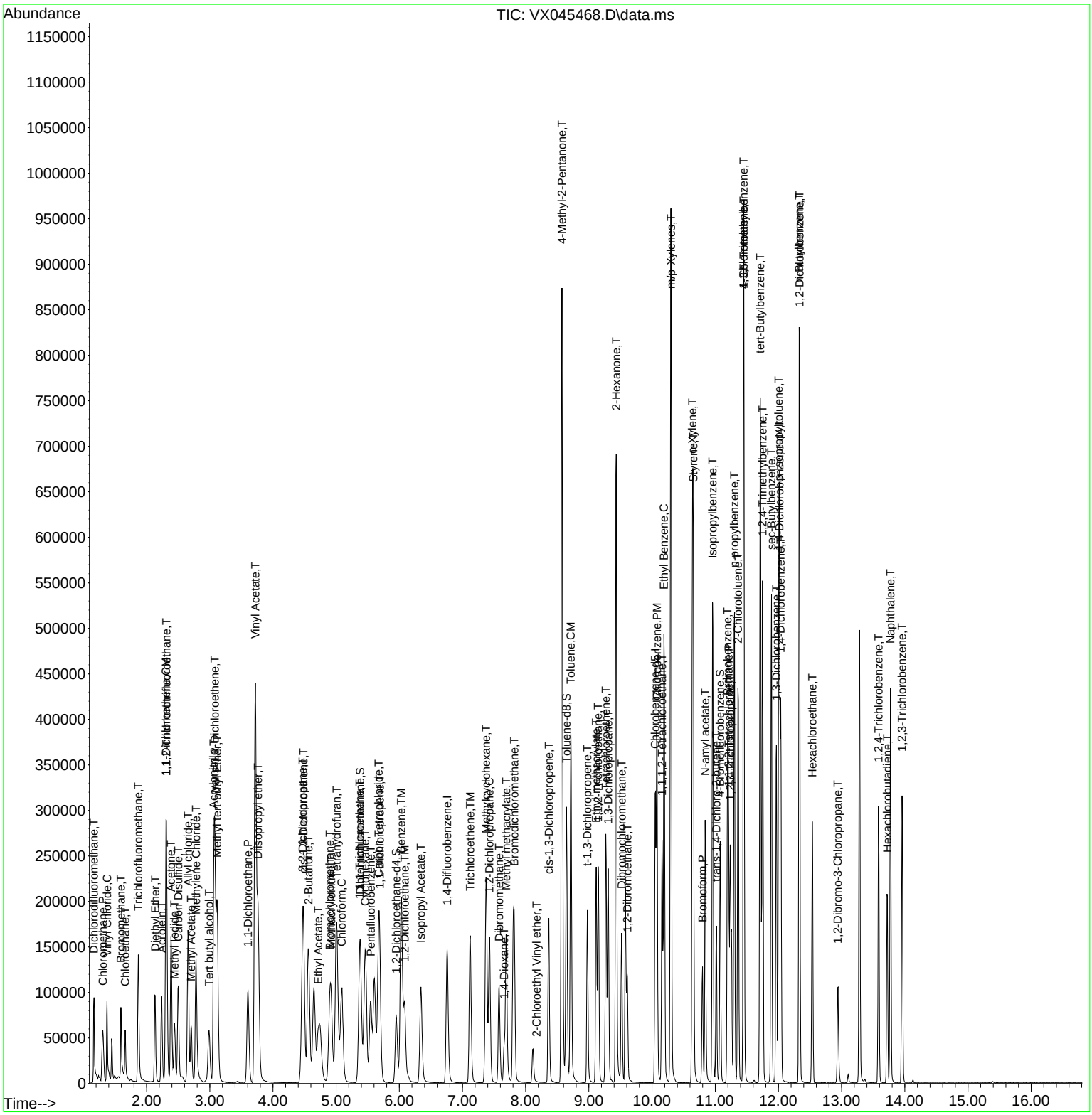
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

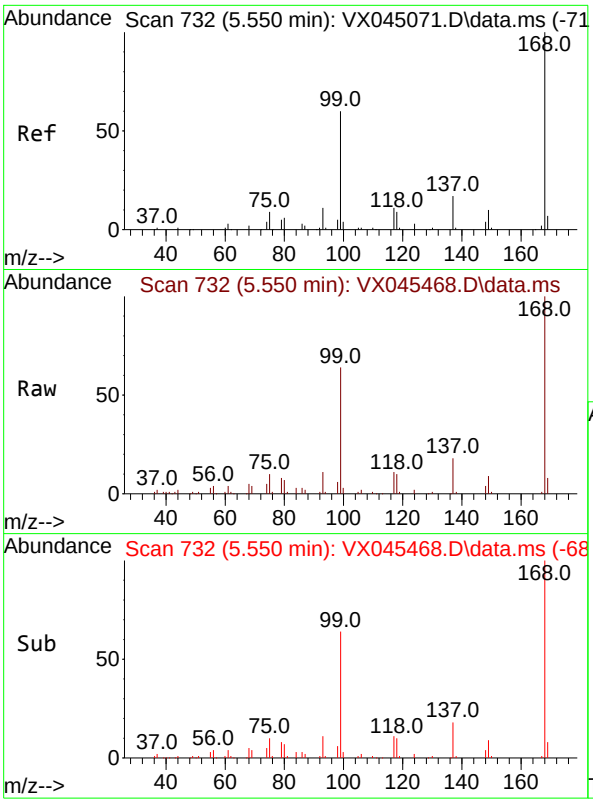
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045468.D
Acq On : 26 Mar 2025 14:29
Operator : JC/MD
Sample : Q1629-05MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Quant Time: Mar 27 01:39:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



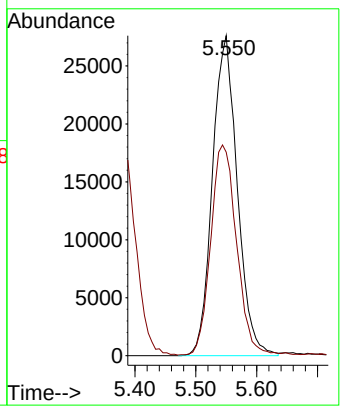


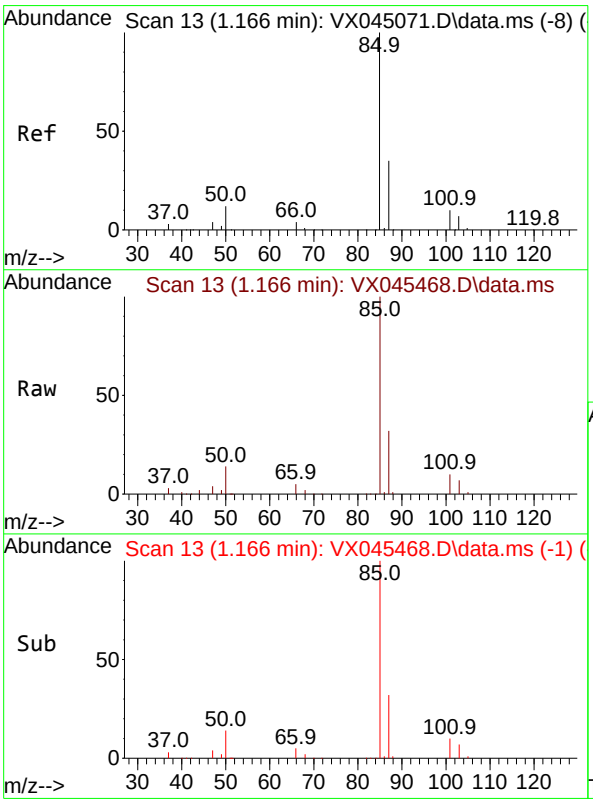
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:168 Resp: 78228

Ion	Ratio	Lower	Upper
168	100		
99	63.4	48.2	72.4

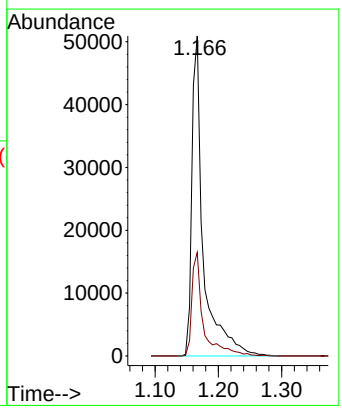


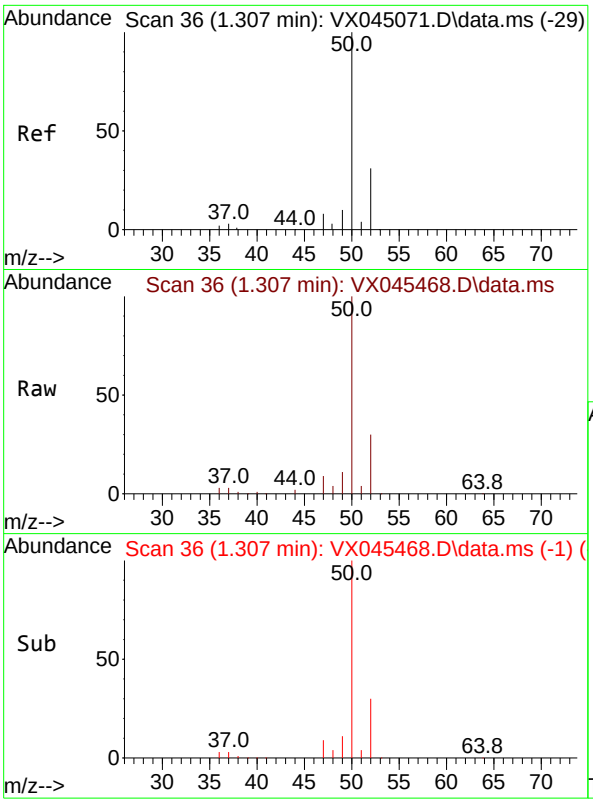


#2
Dichlorodifluoromethane
Concen: 64.970 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 85 Resp: 63976

Ion	Ratio	Lower	Upper
85	100		
87	32.3	17.4	52.3



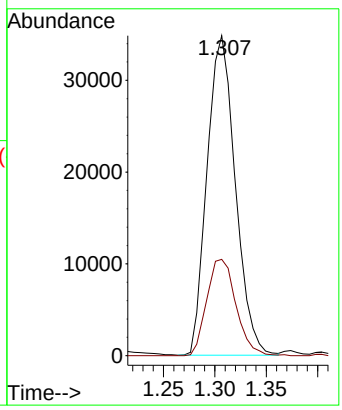


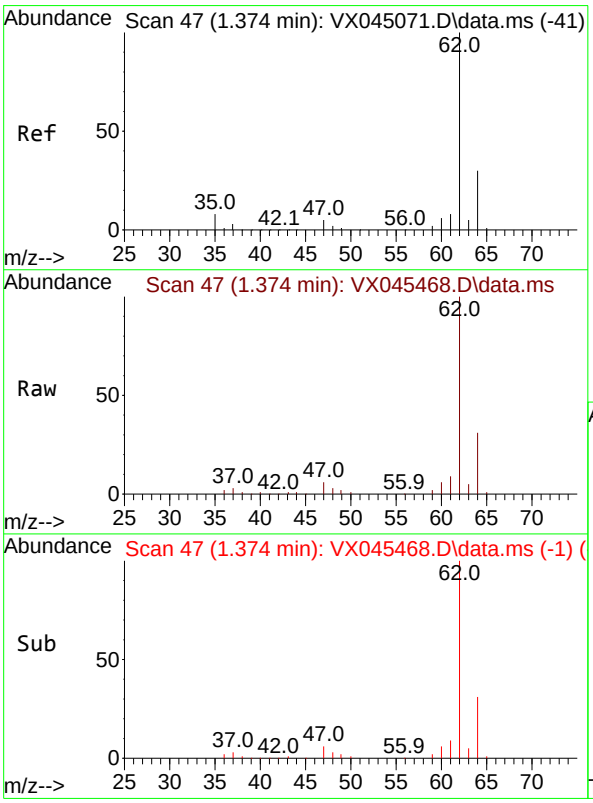
#3
Chloromethane
Concen: 55.255 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 50 Resp: 66586

Ion	Ratio	Lower	Upper
50	100		
52	30.2	25.0	37.4

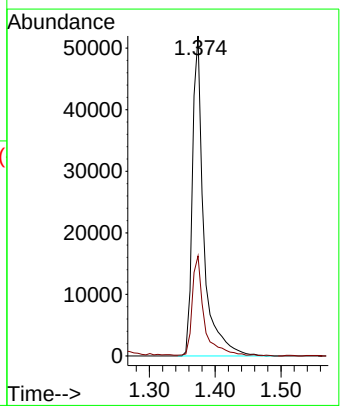


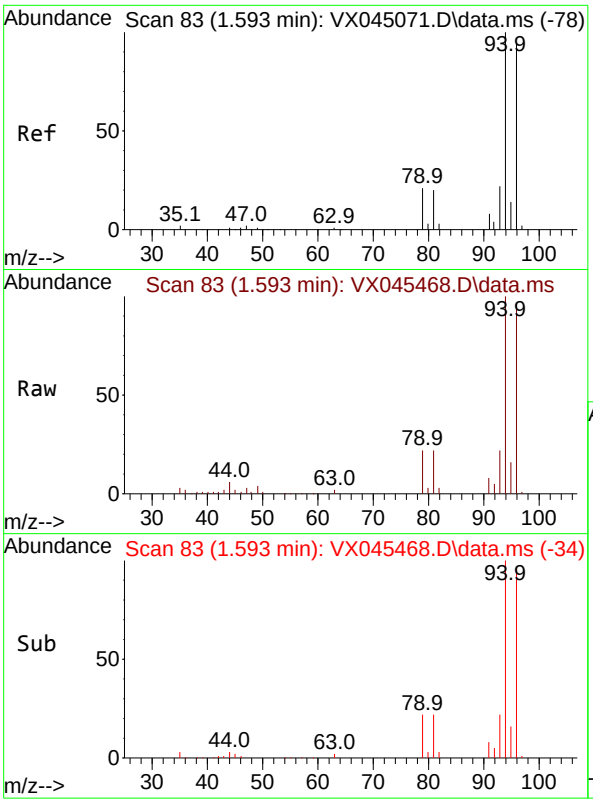


#4
Vinyl Chloride
Concen: 52.056 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 62 Resp: 62230

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.3	36.5



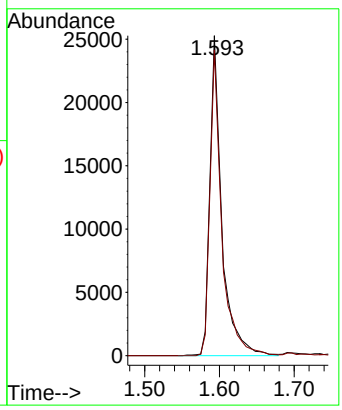


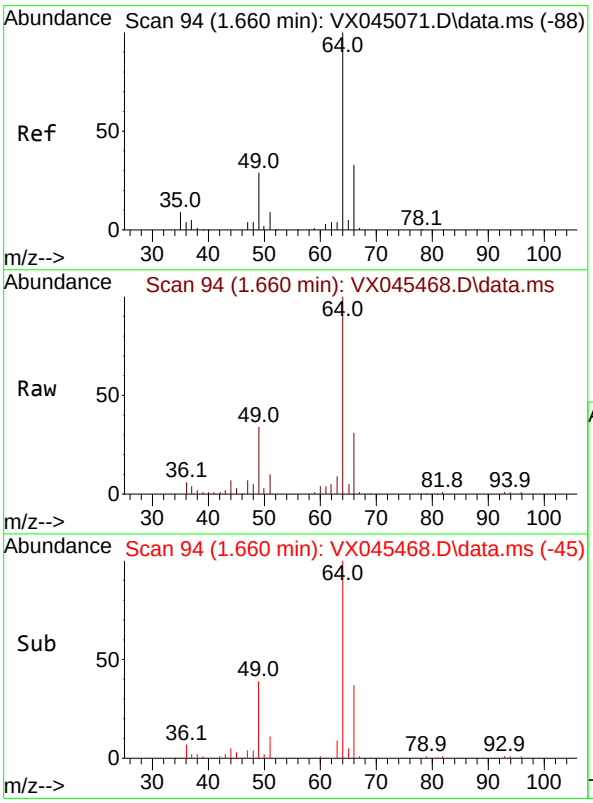
#5
Bromomethane
Concen: 59.947 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 94 Resp: 28172

Ion	Ratio	Lower	Upper
94	100		
96	95.6	75.0	112.4

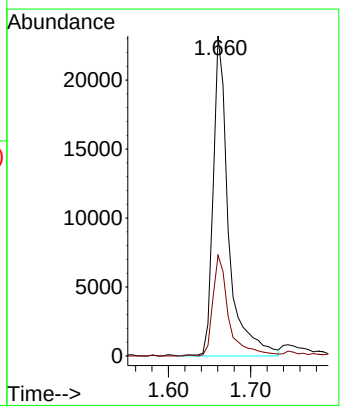


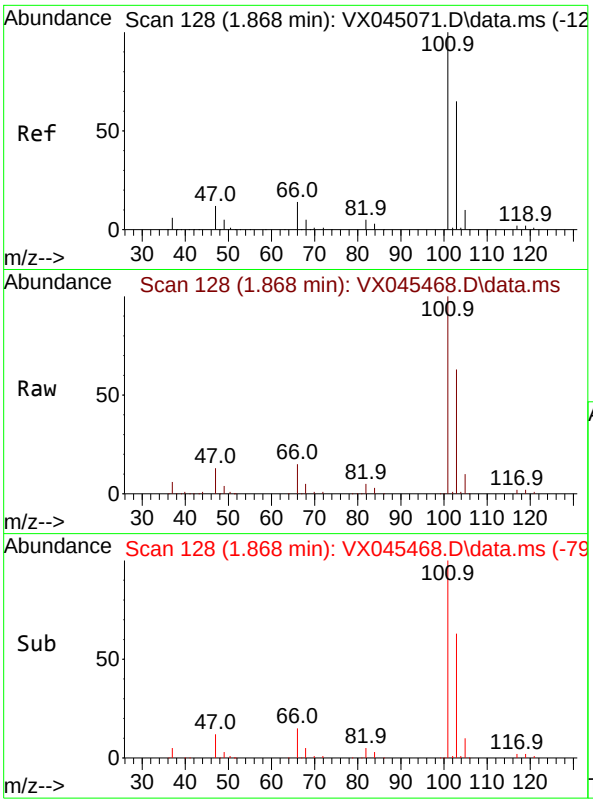


#6
Chloroethane
Concen: 54.671 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 64 Resp: 30146

Ion	Ratio	Lower	Upper
64	100		
66	31.4	26.7	40.1



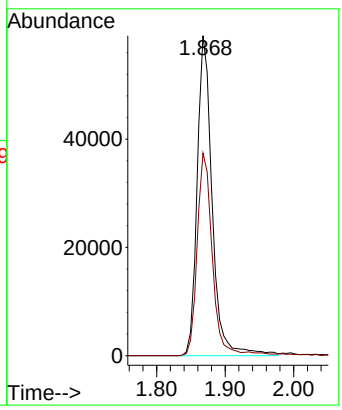


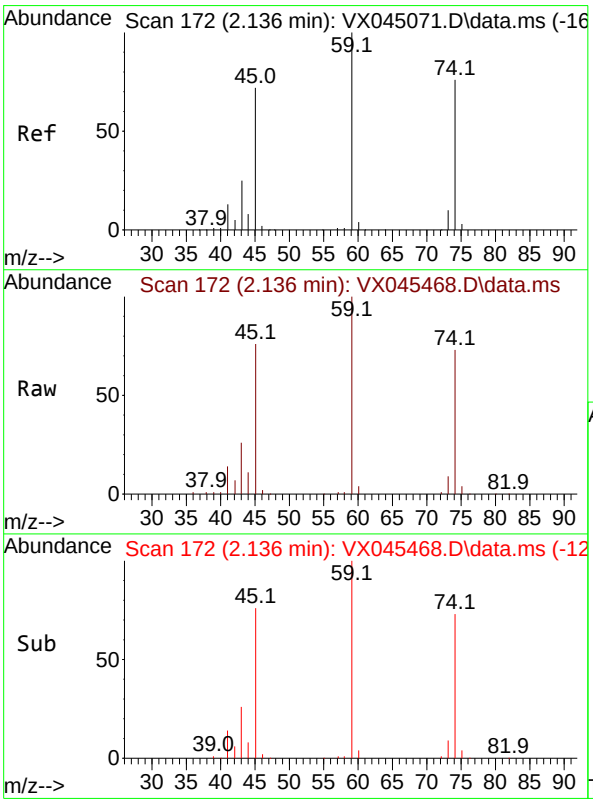
#7
Trichlorofluoromethane
Concen: 57.064 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:101 Resp: 90306

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.1	78.1

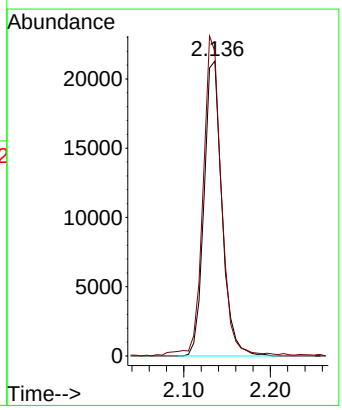


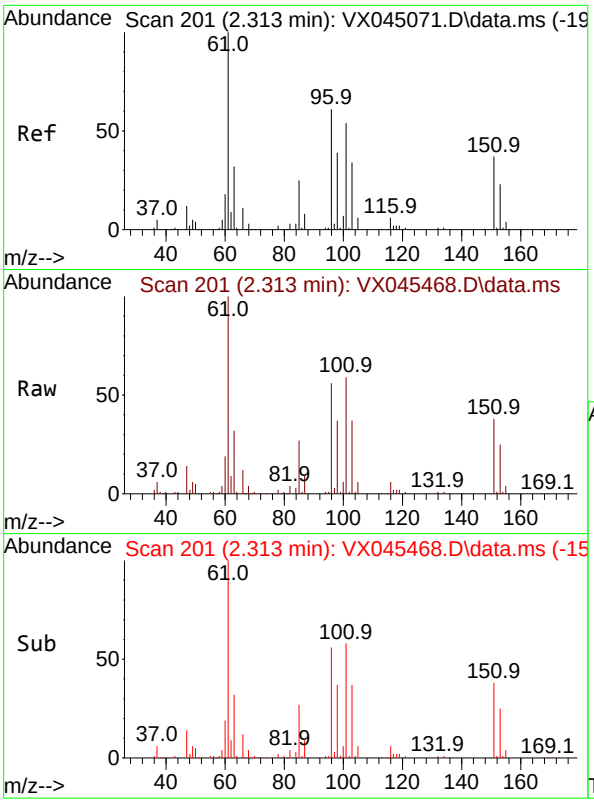


#8
Diethyl Ether
Concen: 49.512 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 74 Resp: 30648

Ion	Ratio	Lower	Upper
74	100		
45	111.1	51.5	154.5



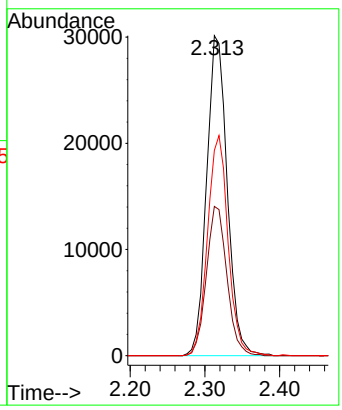


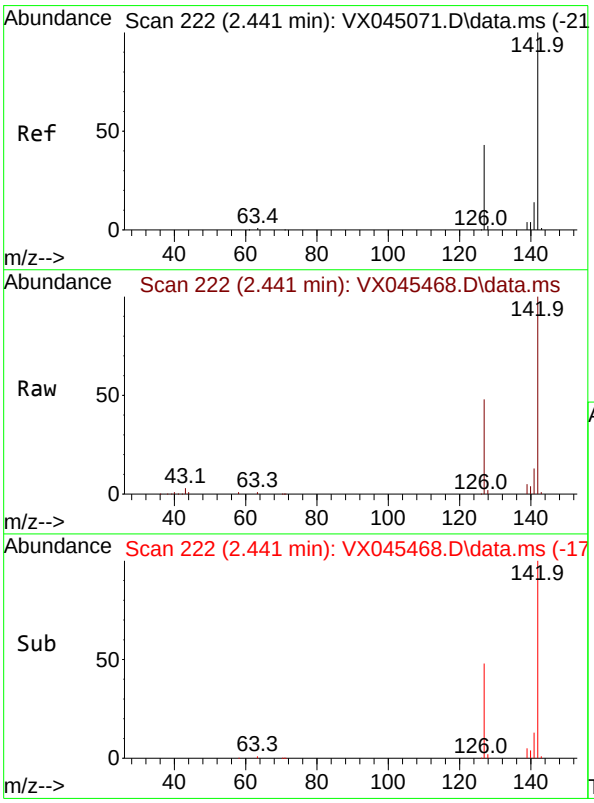
#9
1,1,2-Trichlorotrifluoroethane
Concen: 63.438 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:101 Resp: 57678

Ion	Ratio	Lower	Upper
101	100		
85	46.6	36.2	54.4
151	68.6	56.4	84.6

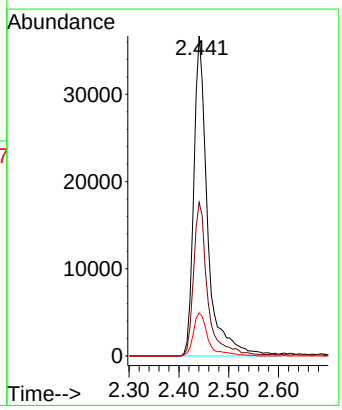


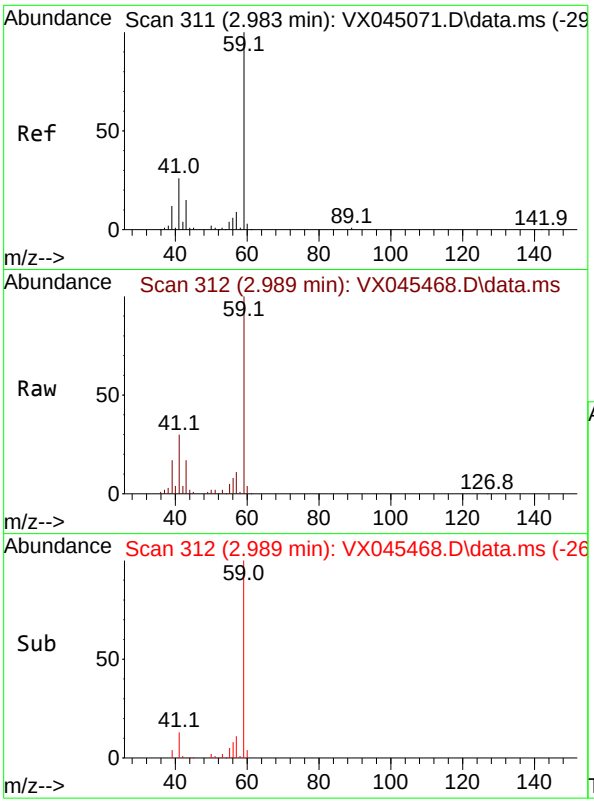


#10
Methyl Iodide
Concen: 62.527 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:142 Resp: 71045

Ion	Ratio	Lower	Upper
142	100		
127	48.7	35.4	53.2
141	14.4	11.6	17.4



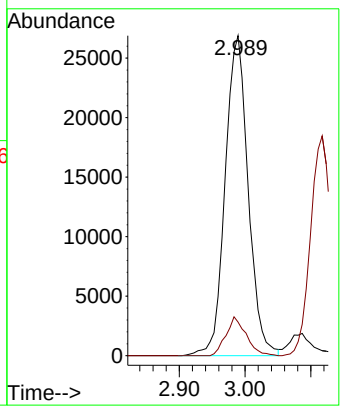


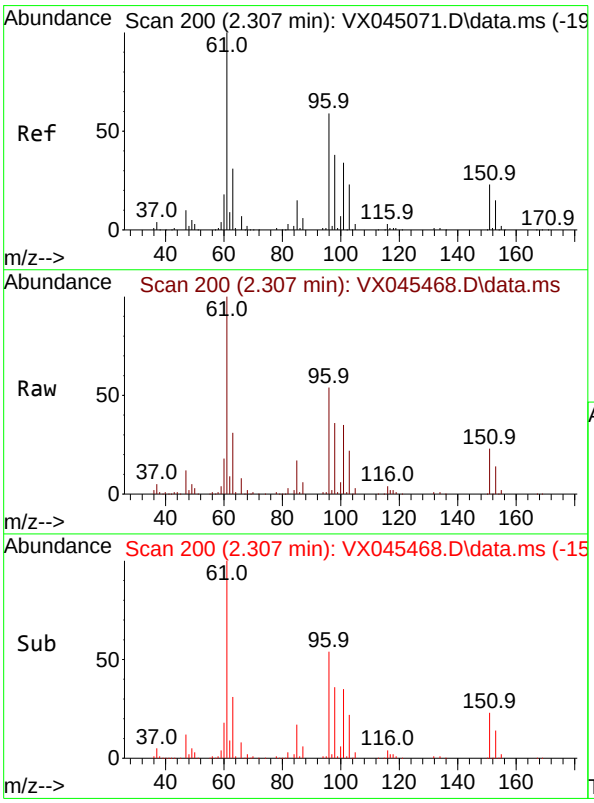
#11
Tert butyl alcohol
Concen: 278.091 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 59 Resp: 65545

Ion	Ratio	Lower	Upper
59	100		
57	10.7	7.8	11.8

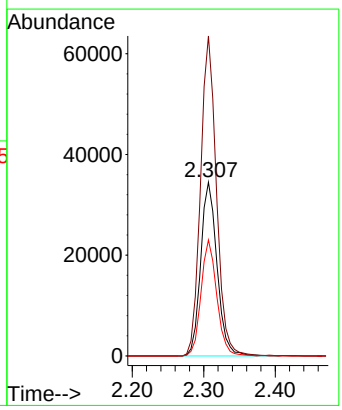


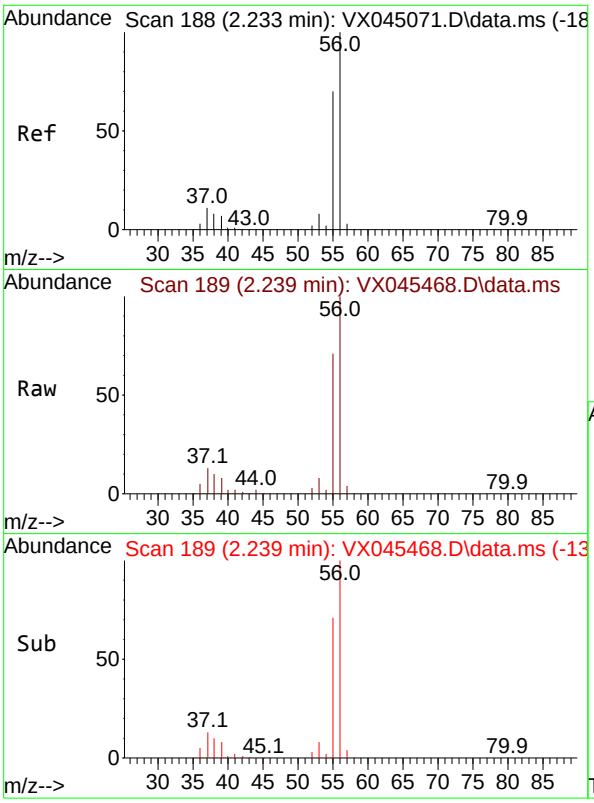


#12
1,1-Dichloroethene
Concen: 57.087 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 96 Resp: 54875

Ion	Ratio	Lower	Upper
96	100		
61	184.2	134.6	202.0
98	66.8	51.0	76.6



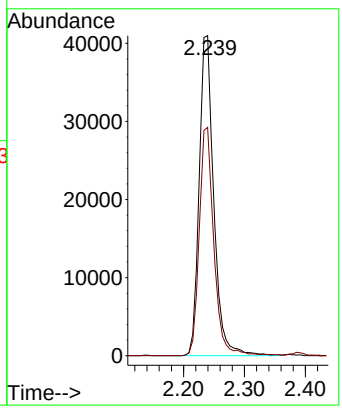


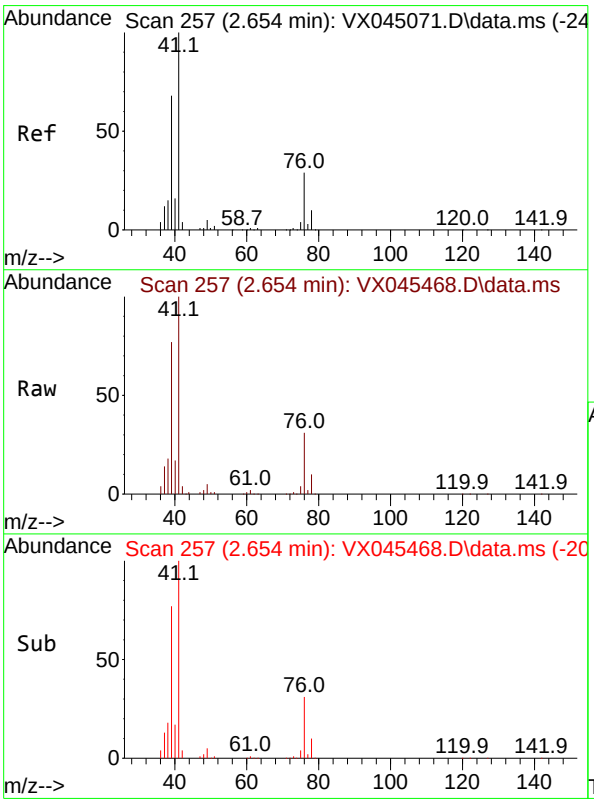
#13
Acrolein
Concen: 250.534 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 56 Resp: 68260

Ion	Ratio	Lower	Upper
56	100		
55	71.5	56.2	84.4

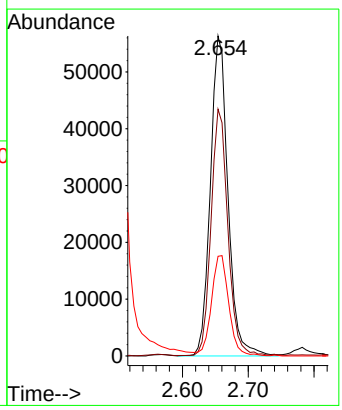


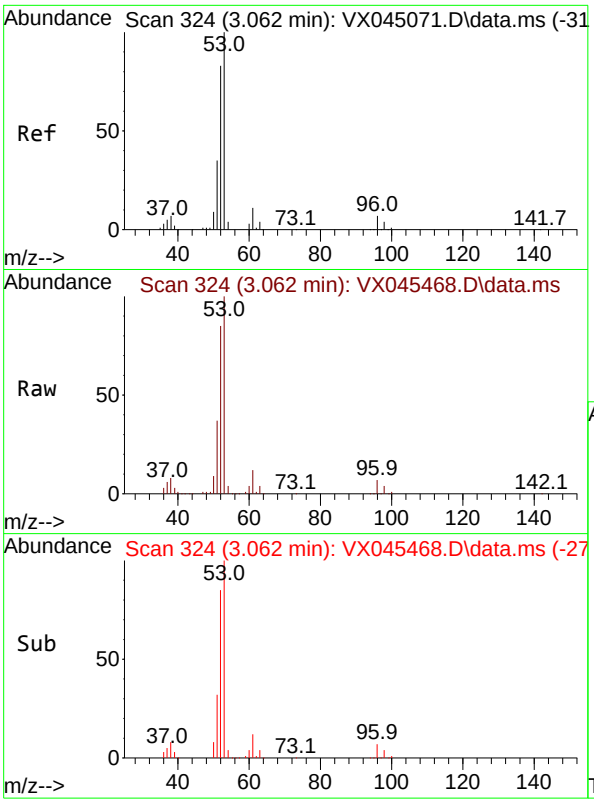


#14
Allyl chloride
Concen: 61.284 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 41 Resp: 104862

Ion	Ratio	Lower	Upper
41	100		
39	73.3	53.8	80.8
76	30.8	25.2	37.8



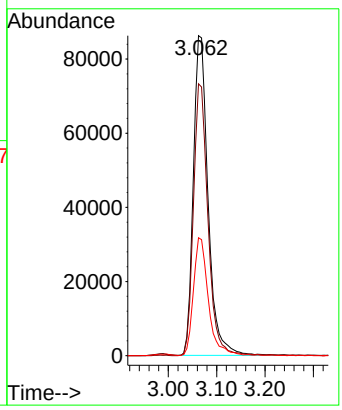


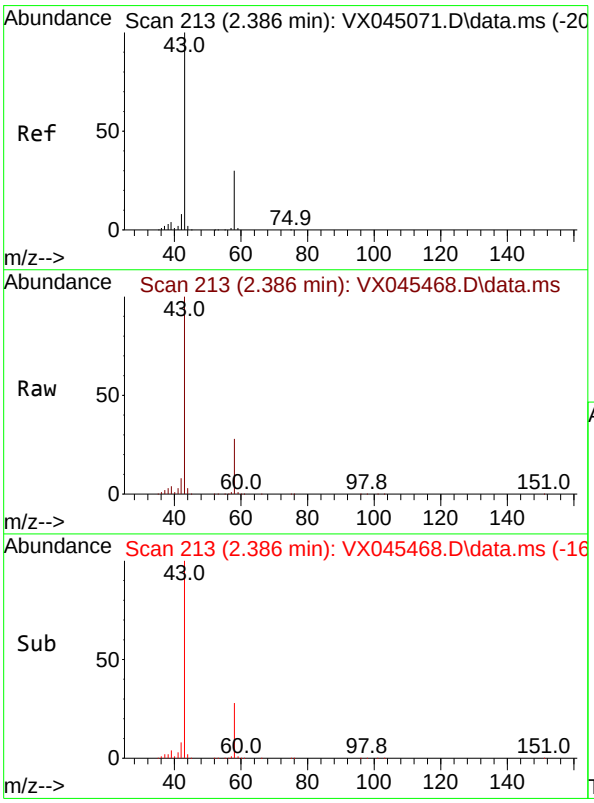
#15
Acrylonitrile
Concen: 288.335 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 53 Resp: 182139

Ion	Ratio	Lower	Upper
53	100		
52	84.0	66.2	99.2
51	37.3	29.0	43.4

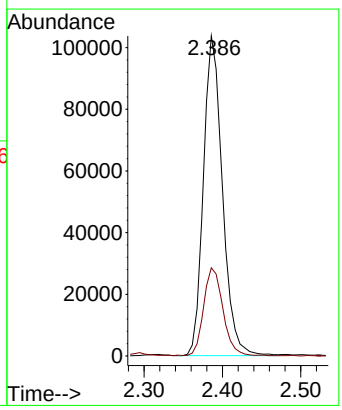


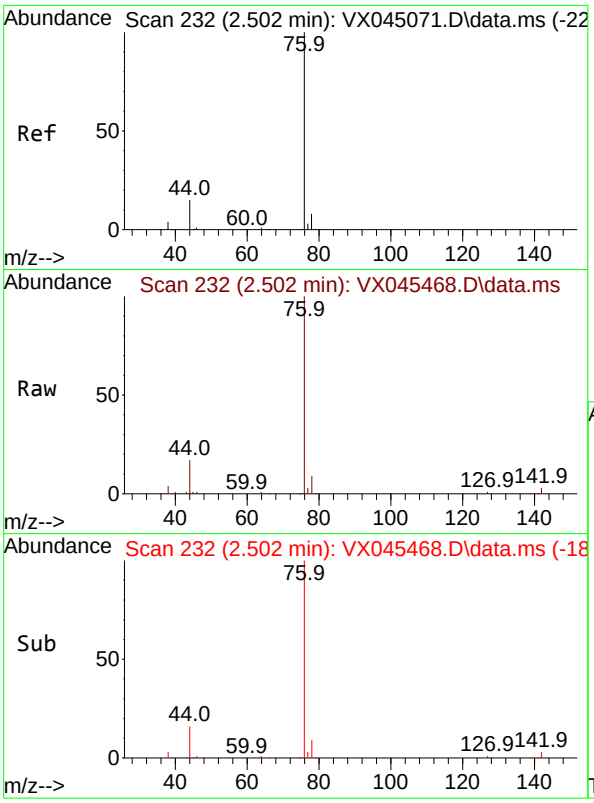


#16
Acetone
Concen: 302.689 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 174752

Ion	Ratio	Lower	Upper
43	100		
58	27.5	24.2	36.4



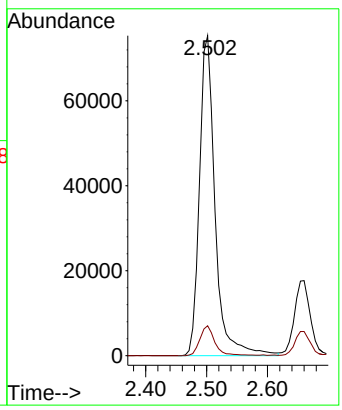


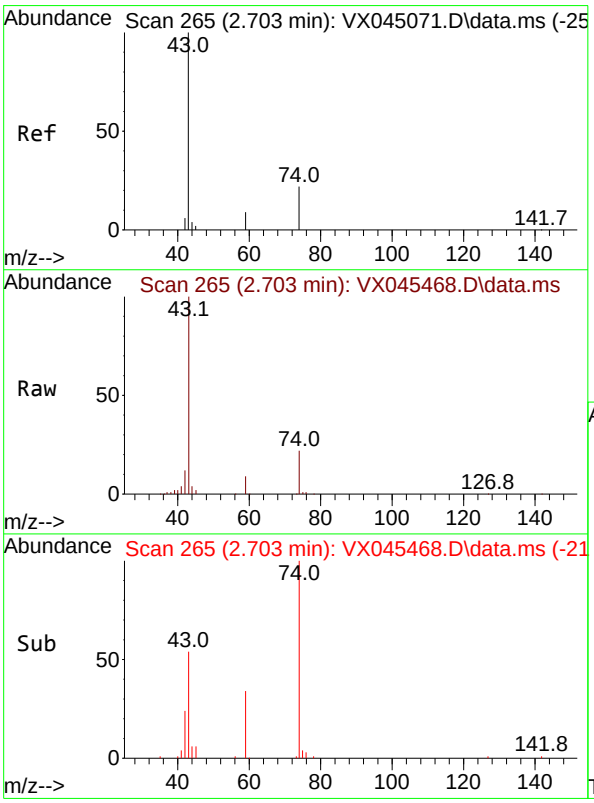
#17
Carbon Disulfide
Concen: 52.555 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 76 Resp: 134555

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.6	9.8

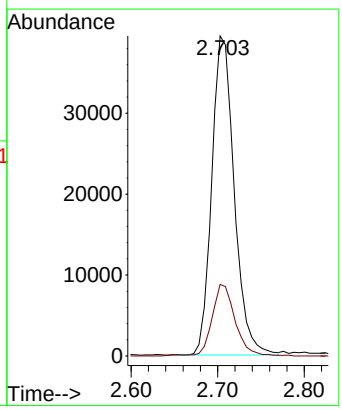


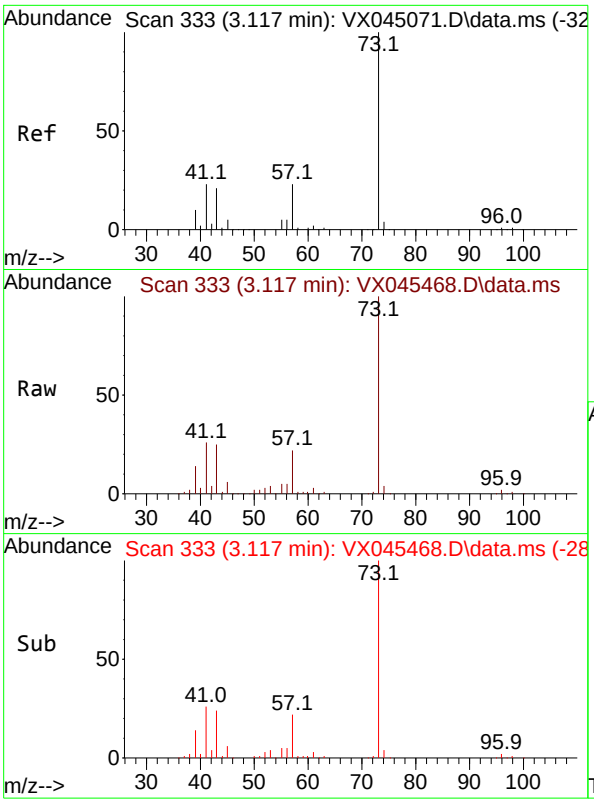


#18
Methyl Acetate
Concen: 51.211 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 71126

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2



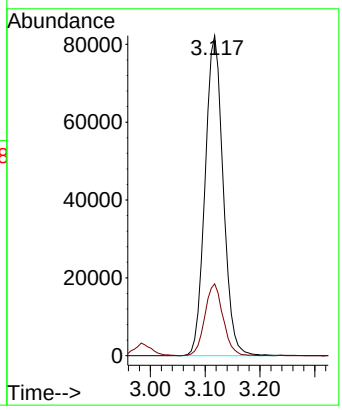


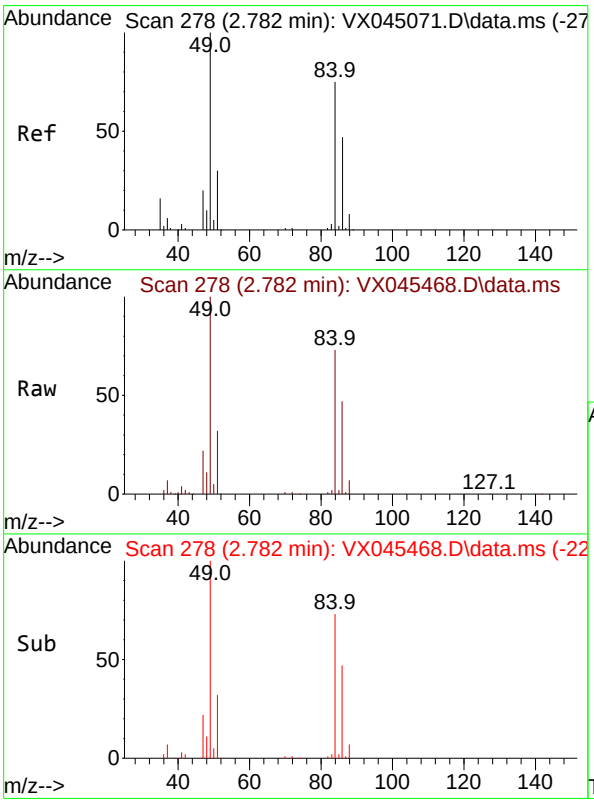
#19
Methyl tert-butyl Ether
Concen: 58.328 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 73 Resp: 188109

Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.5	27.7

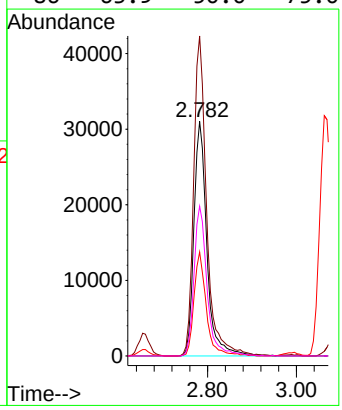


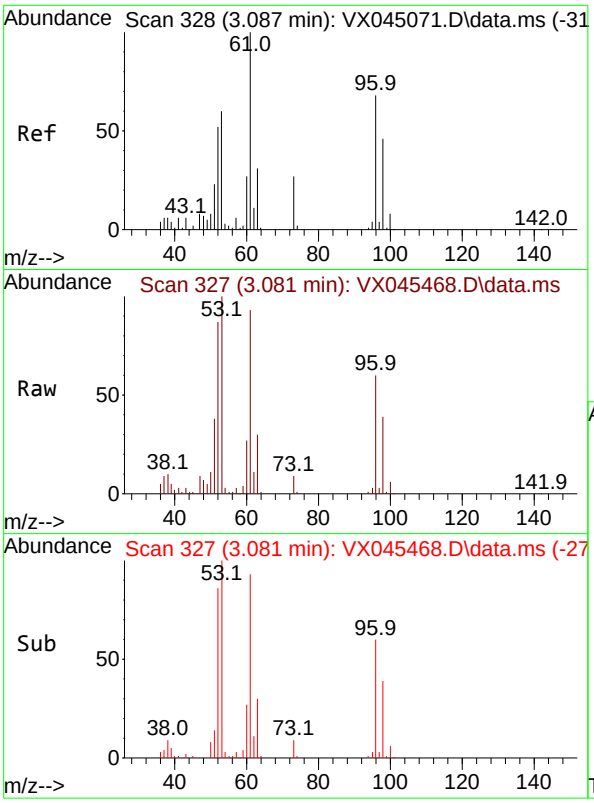


#20
Methylene Chloride
Concen: 55.042 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 84 Resp: 62947

Ion	Ratio	Lower	Upper
84	100		
49	136.5	106.5	159.7
51	44.3	32.1	48.1
86	63.9	50.0	75.0



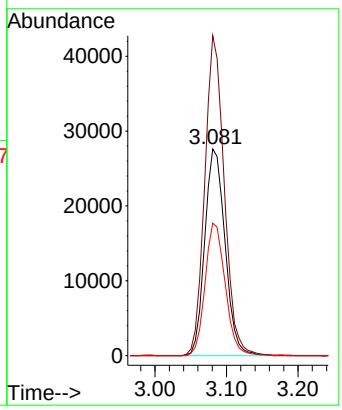


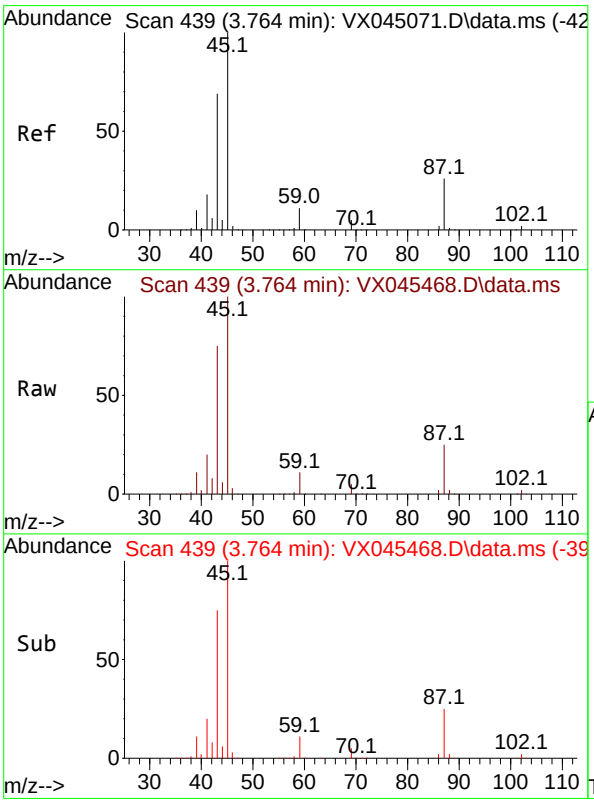
#21
trans-1,2-Dichloroethene
Concen: 57.460 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 96 Resp: 54567

Ion	Ratio	Lower	Upper
96	100		
61	154.9	117.0	175.4
98	64.1	53.4	80.2

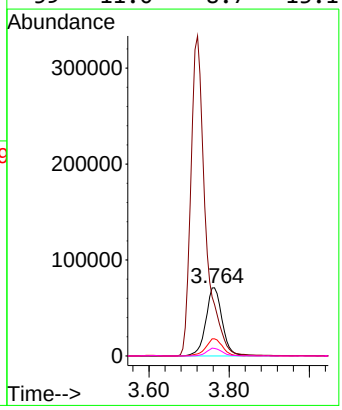


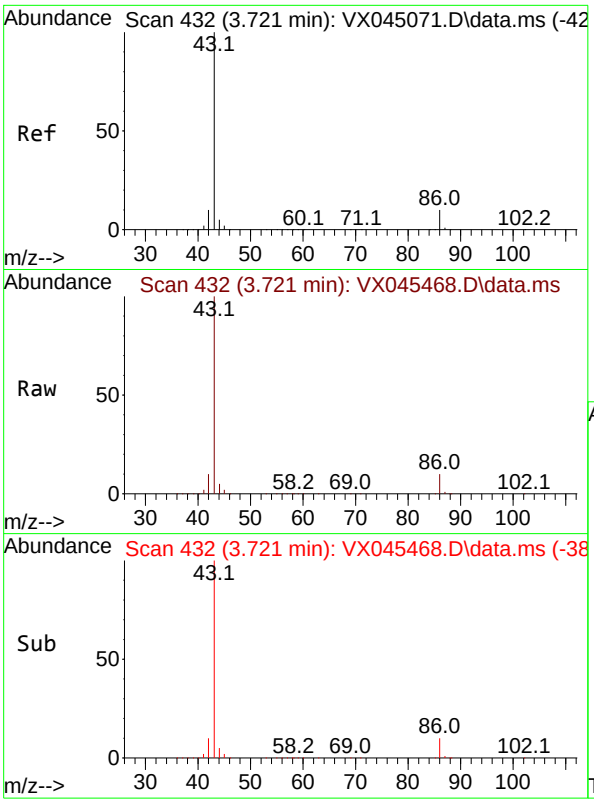


#22
Diisopropyl ether
Concen: 58.258 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 45 Resp: 202733

Ion	Ratio	Lower	Upper
45	100		
43	75.3	54.9	82.3
87	25.1	21.0	31.4
59	11.0	8.7	13.1



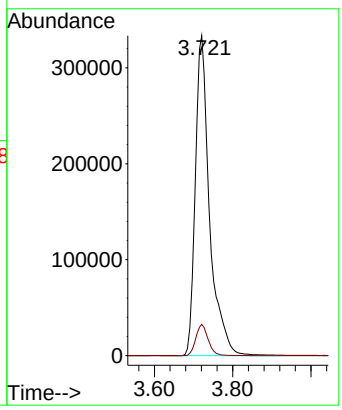


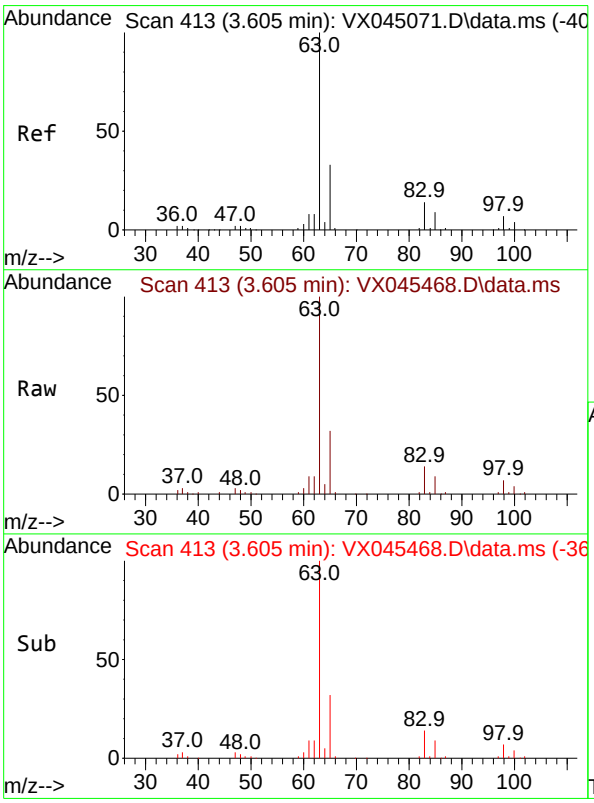
#23
Vinyl Acetate
Concen: 291.450 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 43 Resp: 846377

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1

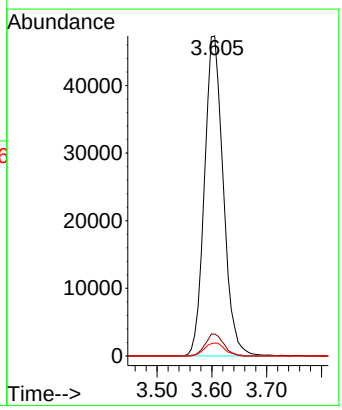


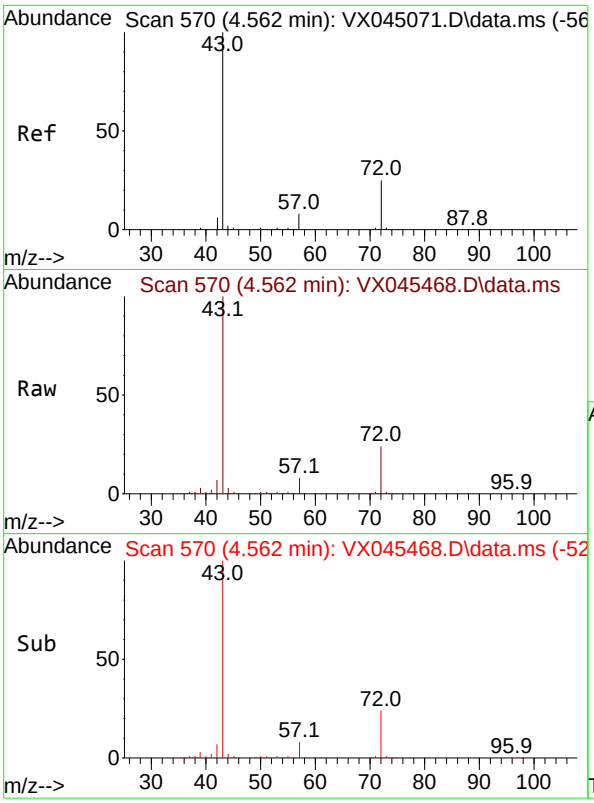


#24
1,1-Dichloroethane
Concen: 57.703 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 63 Resp: 112537

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.4	10.2
100	4.1	2.1	6.5



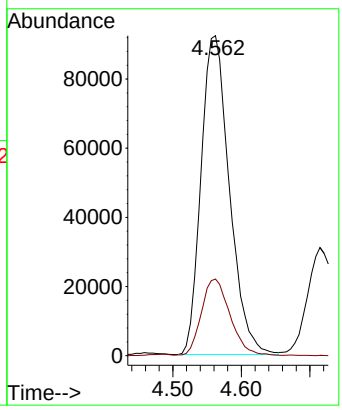


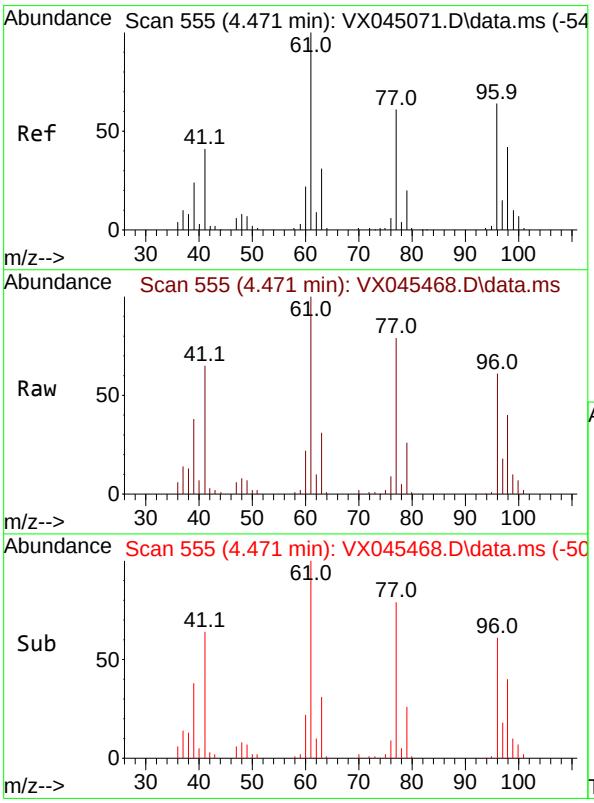
#25
2-Butanone
Concen: 305.711 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 43 Resp: 265671

Ion	Ratio	Lower	Upper
43	100		
72	23.9	20.0	30.0

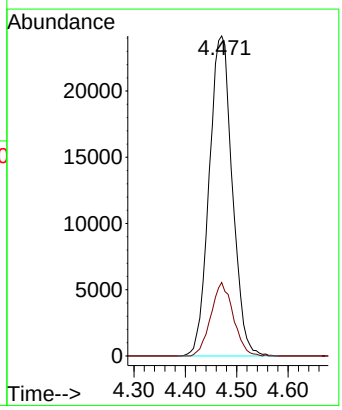


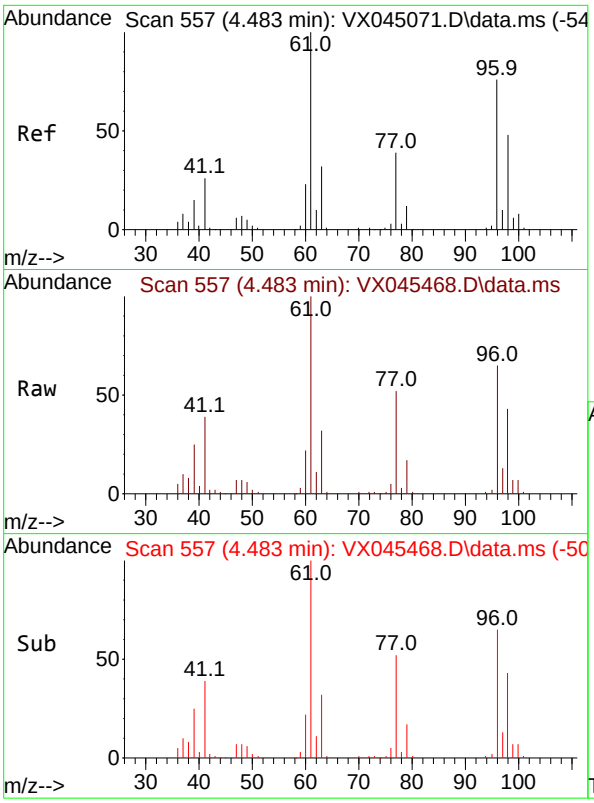


#26
2,2-Dichloropropane
Concen: 82.434 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 77 Resp: 75408

Ion	Ratio	Lower	Upper
77	100		
97	22.3	12.4	37.0



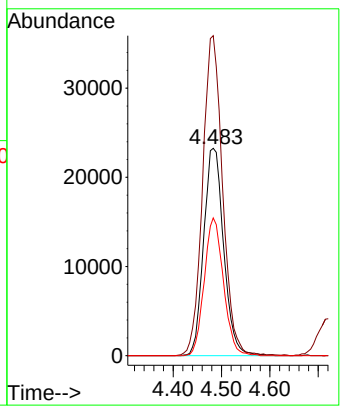


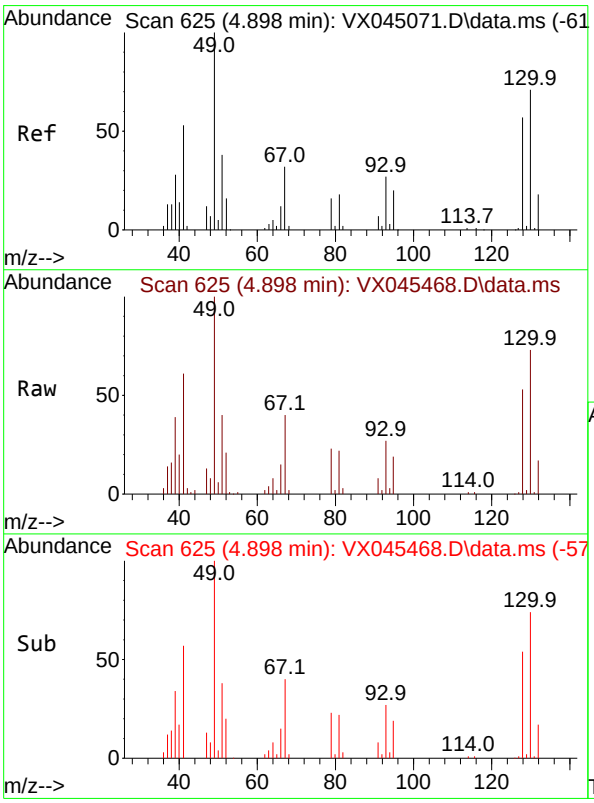
#27
cis-1,2-Dichloroethene
Concen: 56.906 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 96 Resp: 66711

Ion	Ratio	Lower	Upper
96	100		
61	154.5	0.0	283.2
98	63.8	0.0	128.0

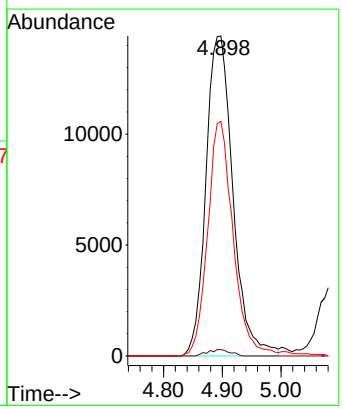


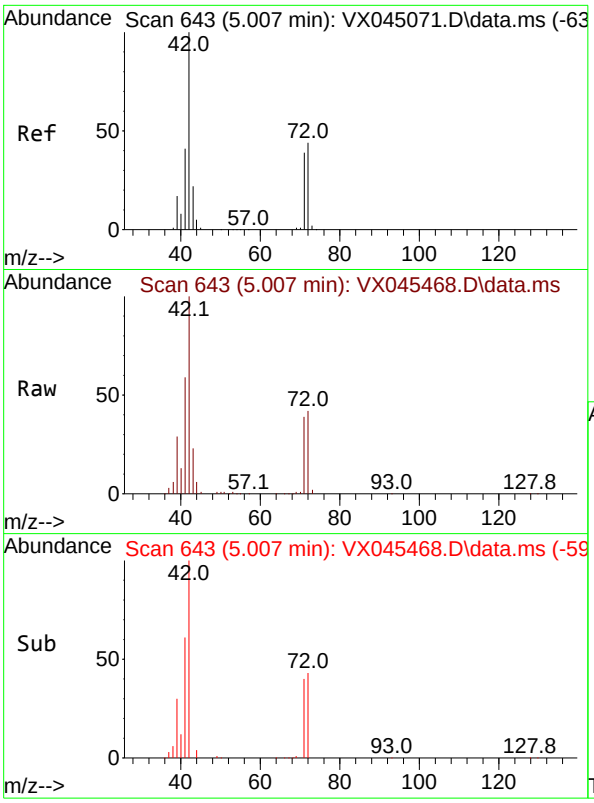


#28
Bromochloromethane
Concen: 49.551 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 49 Resp: 46062

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	68.8	56.1	84.1



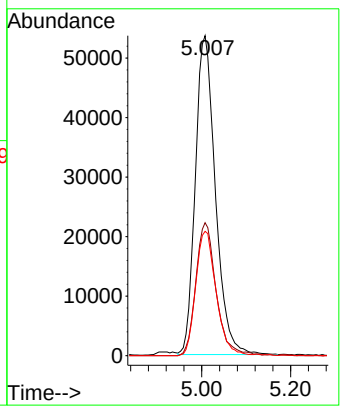


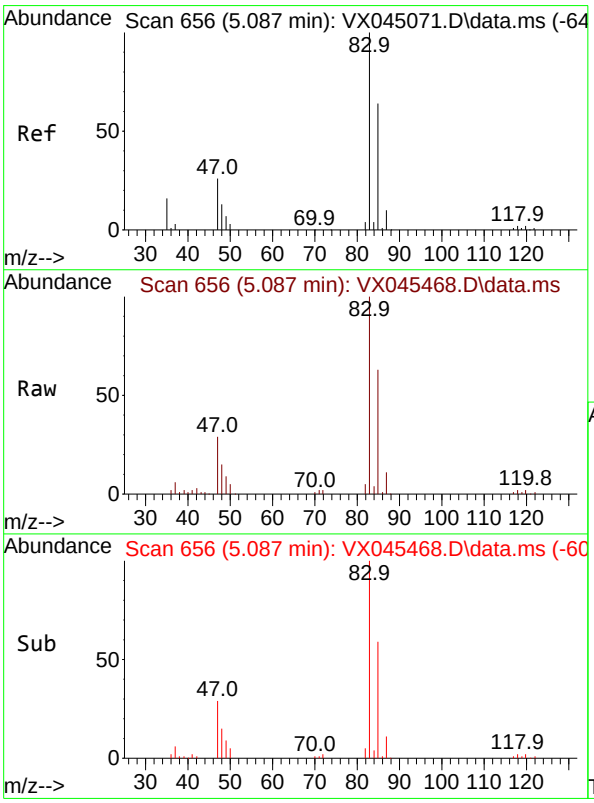
#29
Tetrahydrofuran
Concen: 288.508 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 42 Resp: 168372

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.1	51.1
71	39.6	31.4	47.0

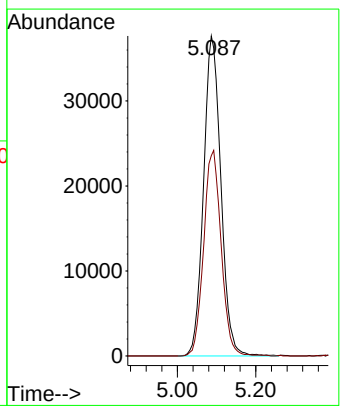


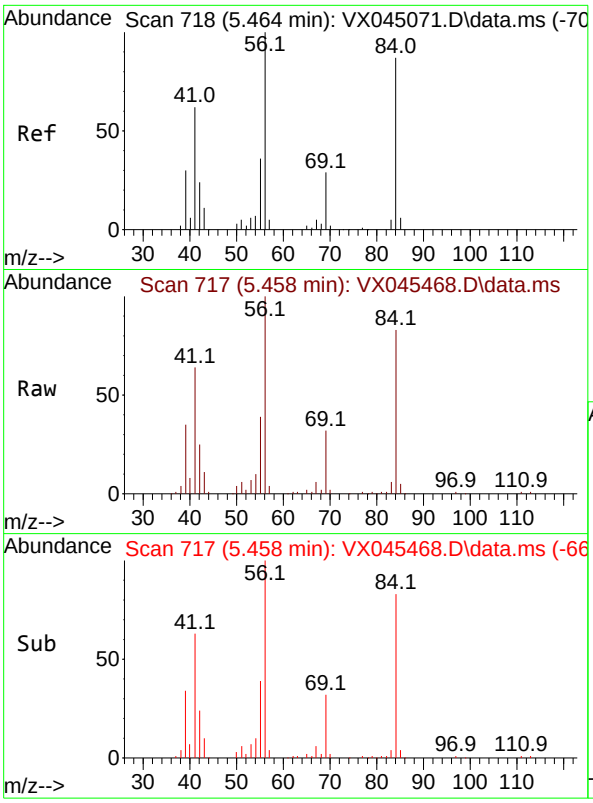


#30
Chloroform
Concen: 59.557 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 83 Resp: 115410

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.4	77.2



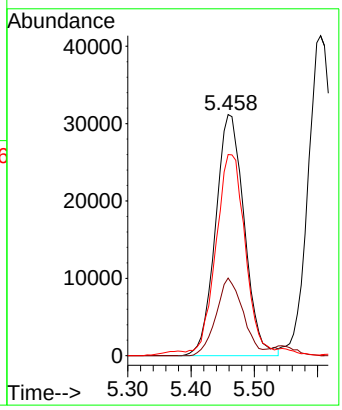


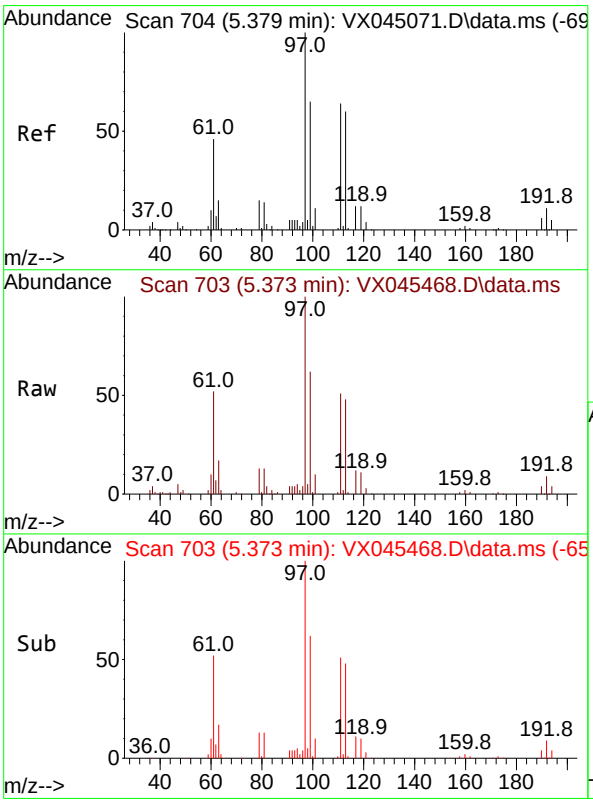
#31
Cyclohexane
Concen: 58.020 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 56 Resp: 98225

Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.4	35.2
84	81.5	69.4	104.2

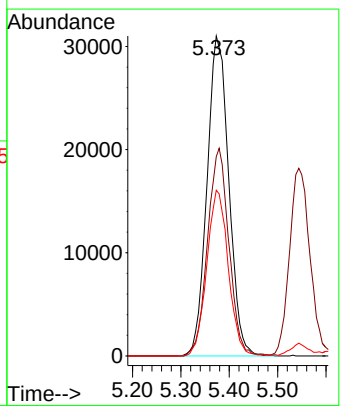


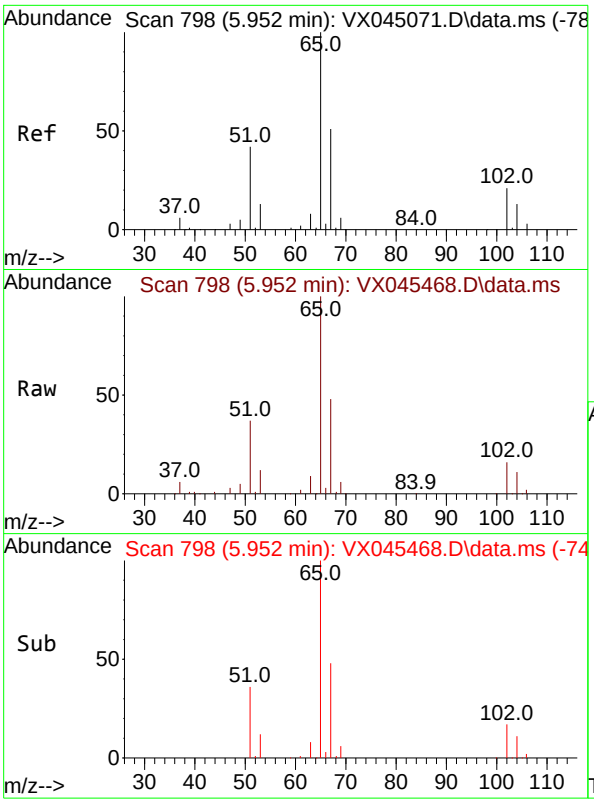


#32
1,1,1-Trichloroethane
Concen: 61.995 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 97 Resp: 97027

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.6	77.4
61	51.3	38.4	57.6



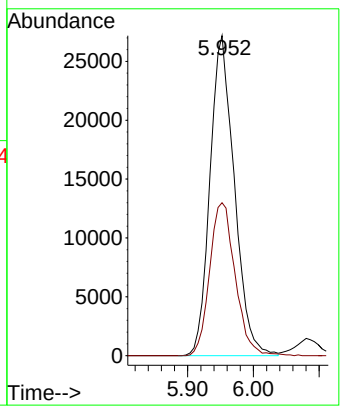


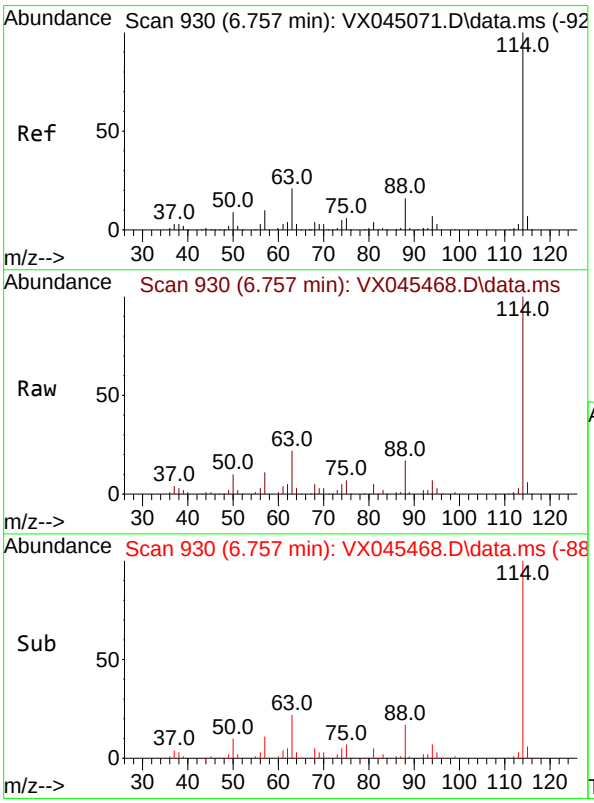
#33
1,2-Dichloroethane-d4
Concen: 56.344 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 65 Resp: 70110

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	106.2

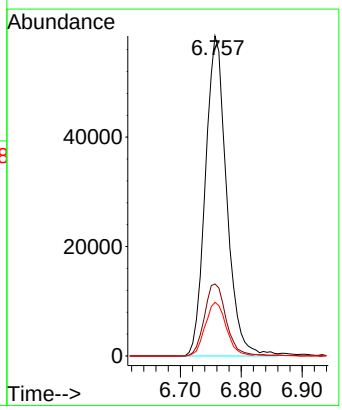


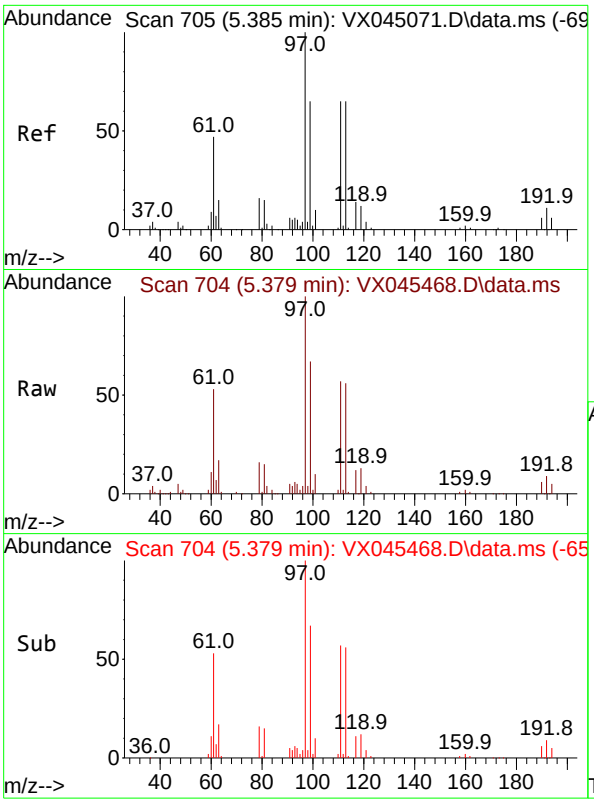


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:114 Resp: 141777

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	41.8
88	16.8	0.0	32.8



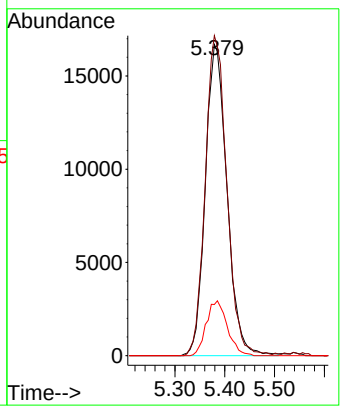


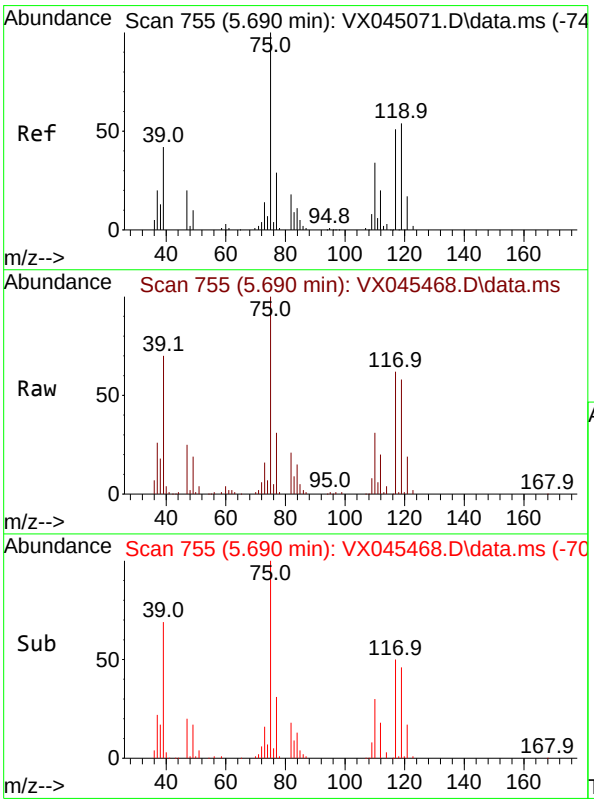
#35
Dibromofluoromethane
Concen: 52.997 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:113 Resp: 50243

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.6
192	17.1	14.3	21.5

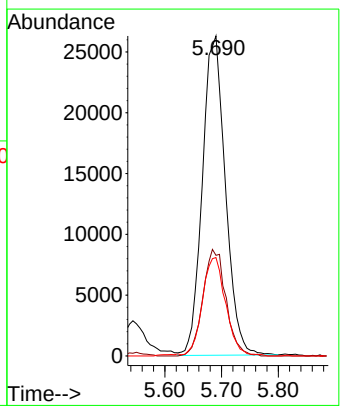


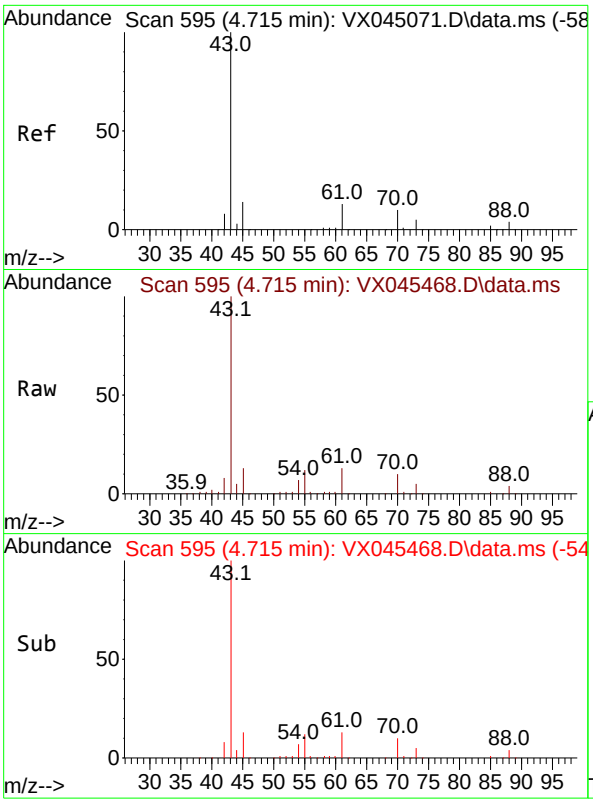


#36
1,1-Dichloropropene
Concen: 57.103 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 74241

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.9	50.6
77	31.6	24.5	36.7



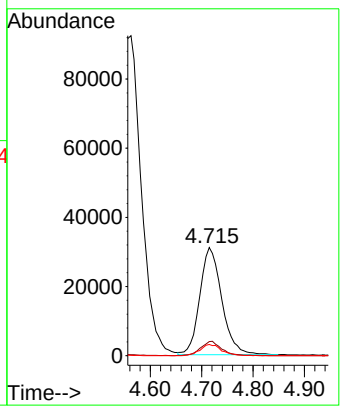


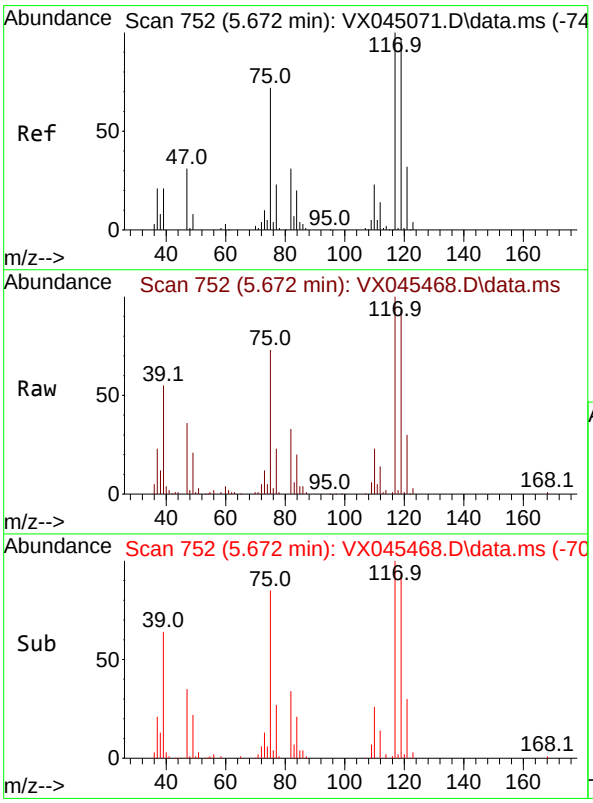
#37
Ethyl Acetate
Concen: 55.257 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 43 Resp: 92572

Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.8	16.2
70	10.0	7.7	11.5

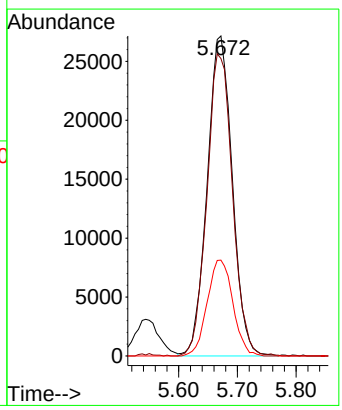


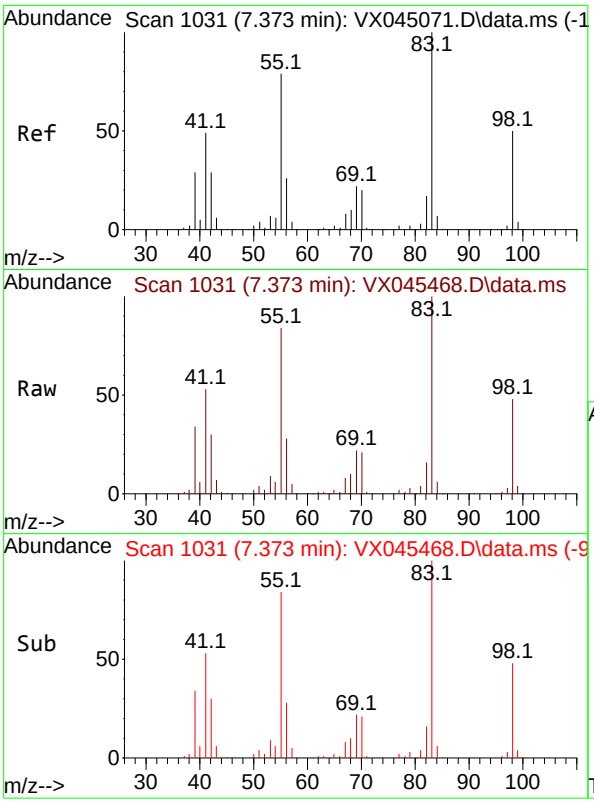


#38
Carbon Tetrachloride
Concen: 61.239 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:117 Resp: 80831

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.7	115.1
121	30.0	25.5	38.3



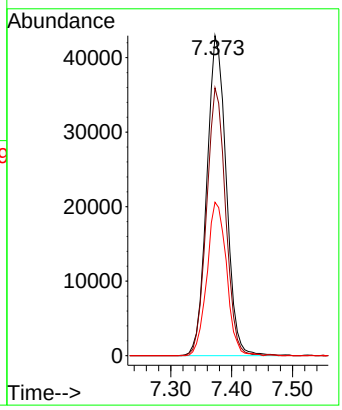


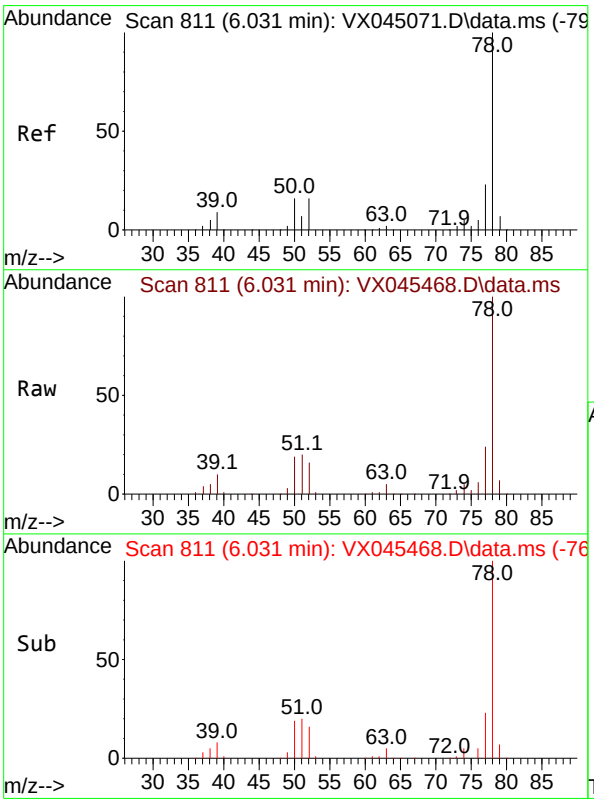
#39
Methylcyclohexane
Concen: 60.989 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 83 Resp: 95012

Ion	Ratio	Lower	Upper
83	100		
55	83.7	63.0	94.4
98	47.9	39.7	59.5

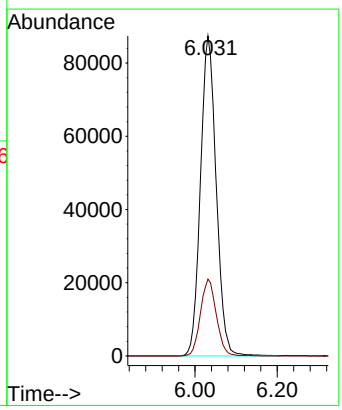


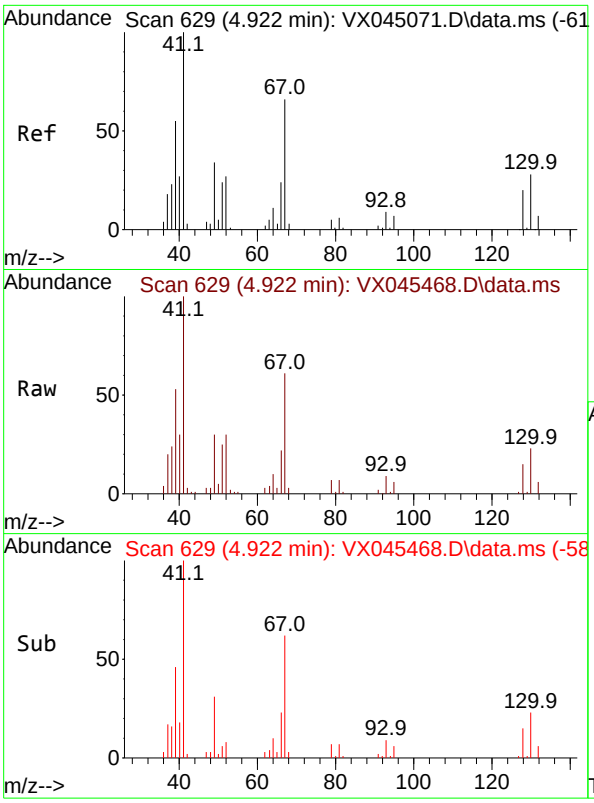


#40
Benzene
Concen: 56.503 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 78 Resp: 231971

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2



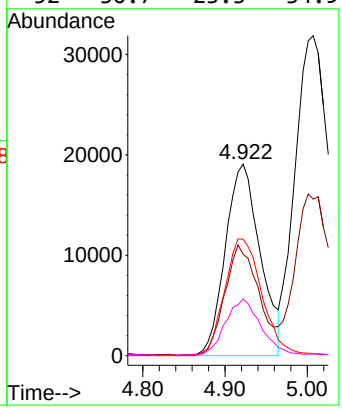


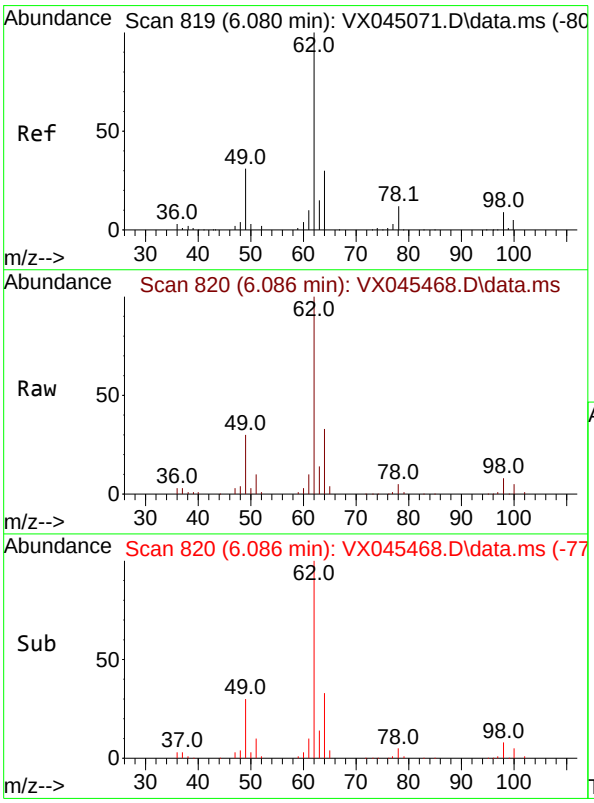
#41
Methacrylonitrile
Concen: 62.268 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 41 Resp: 56406

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.6	67.0
67	65.2	53.9	80.9
52	30.7	23.3	34.9

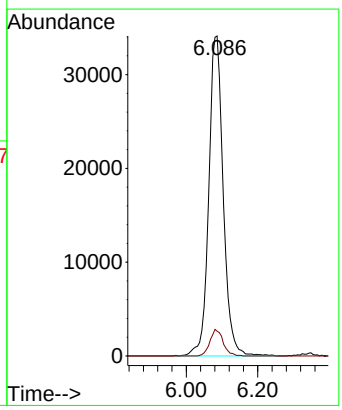


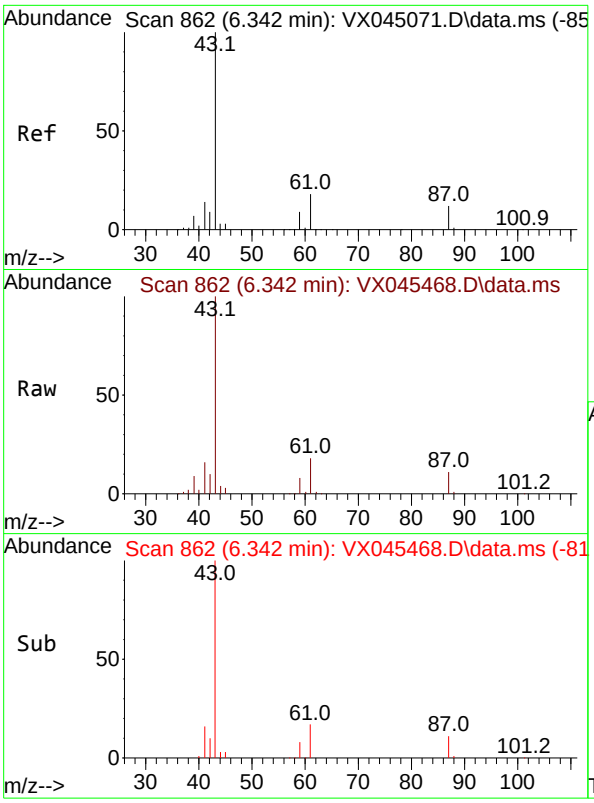


#42
1,2-Dichloroethane
Concen: 64.791 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 62 Resp: 95787

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	18.2



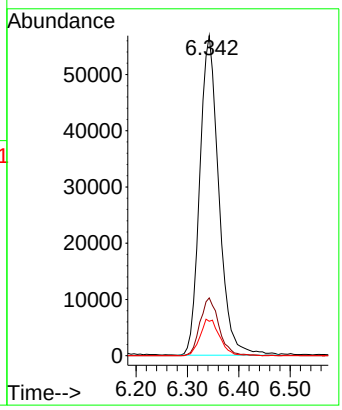


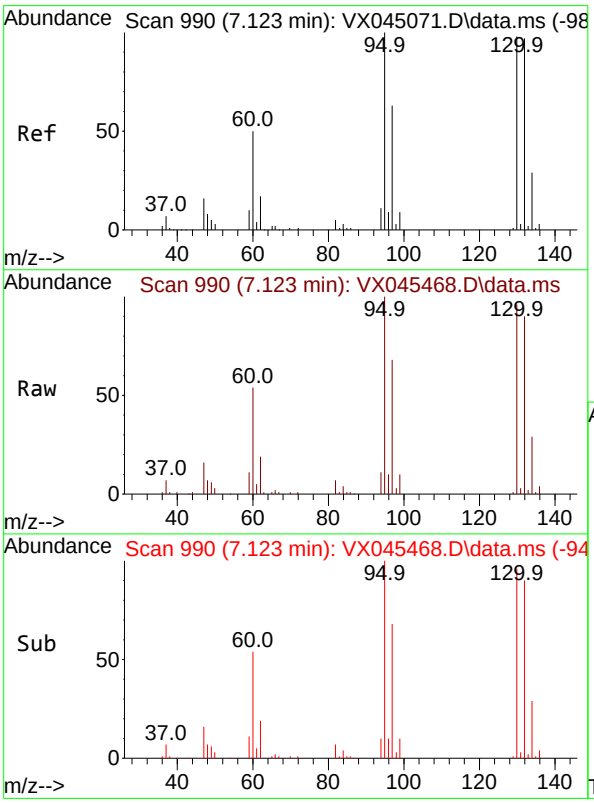
#43
Isopropyl Acetate
Concen: 59.161 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 43 Resp: 146559

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.9	22.3
87	11.5	9.4	14.2

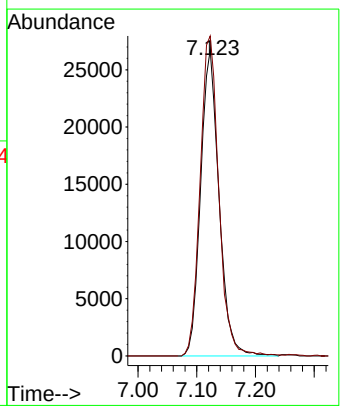


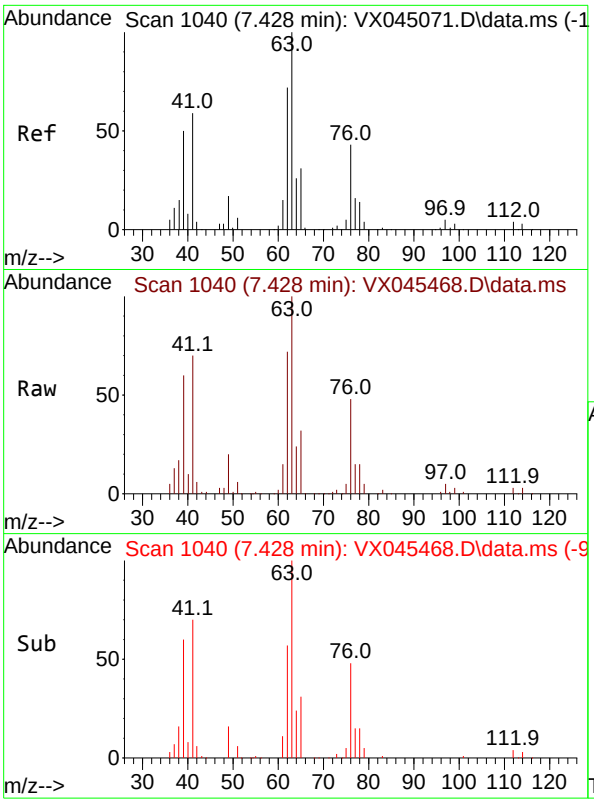


#44
Trichloroethene
Concen: 60.433 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:130 Resp: 58258

Ion	Ratio	Lower	Upper
130	100		
95	104.5	0.0	205.0



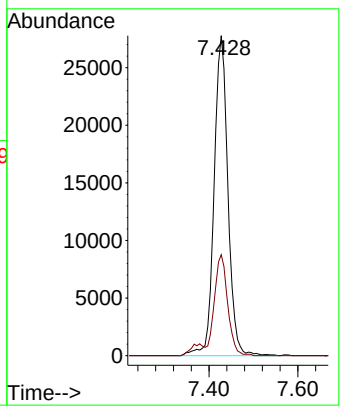


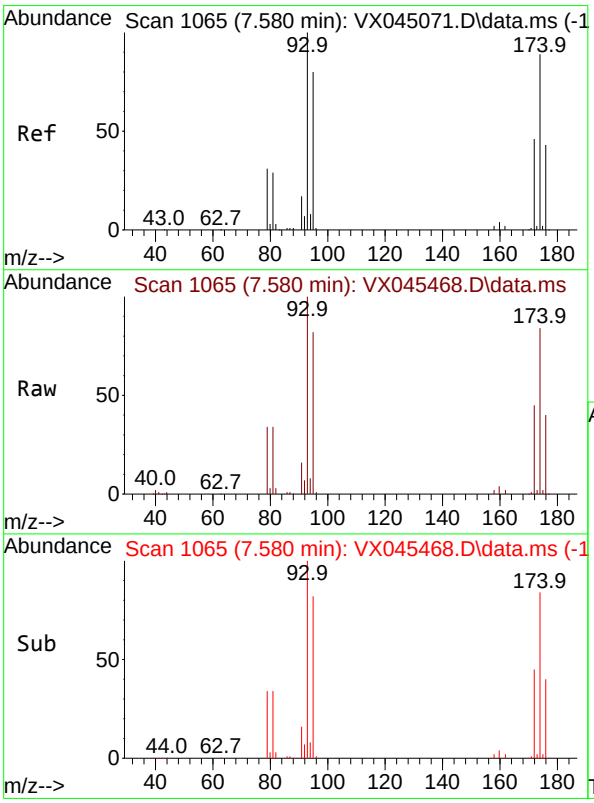
#45
1,2-Dichloropropane
Concen: 56.753 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 63 Resp: 59906

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

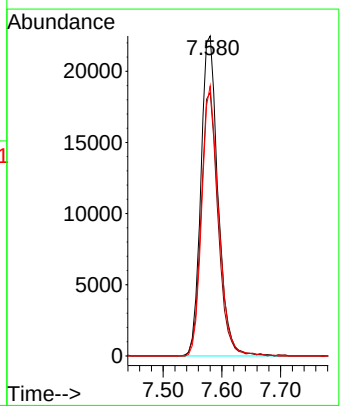


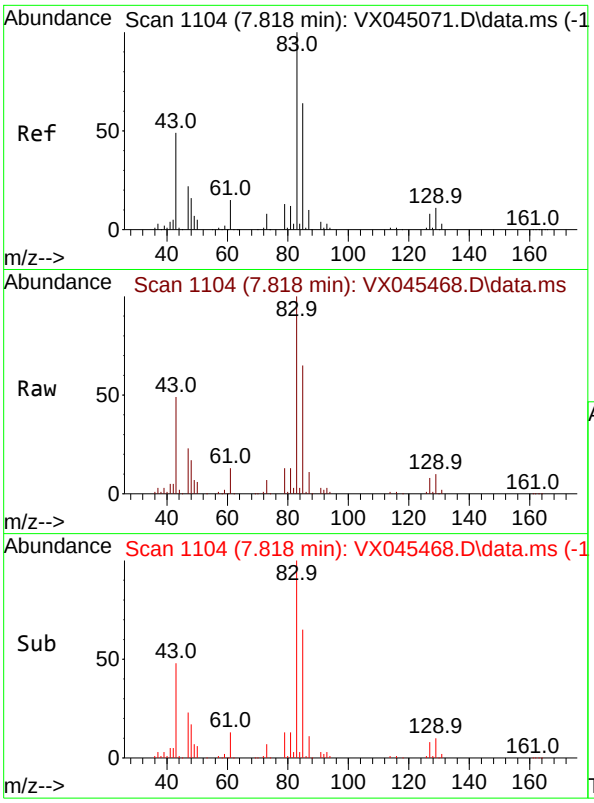


#46
Dibromomethane
Concen: 61.013 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 93 Resp: 45521

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.8	98.8
174	83.2	72.2	108.2



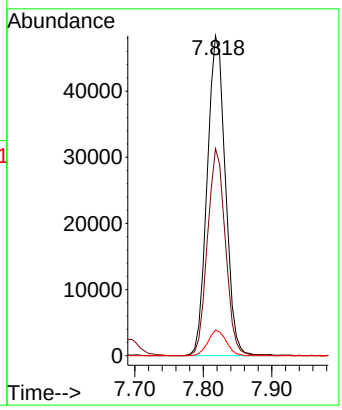


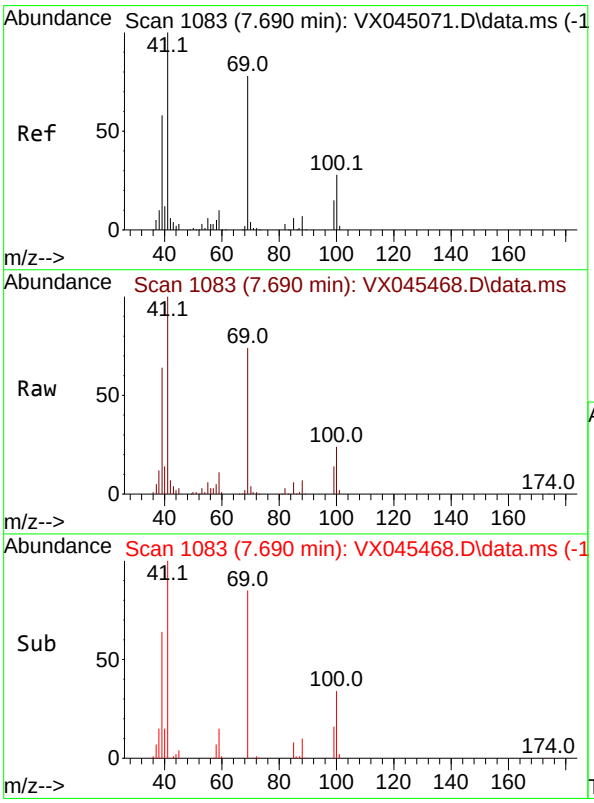
#47
Bromodichloromethane
Concen: 61.024 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 83 Resp: 89304

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.1	76.7
127	8.0	6.4	9.6

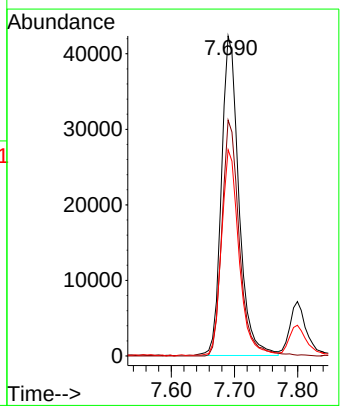


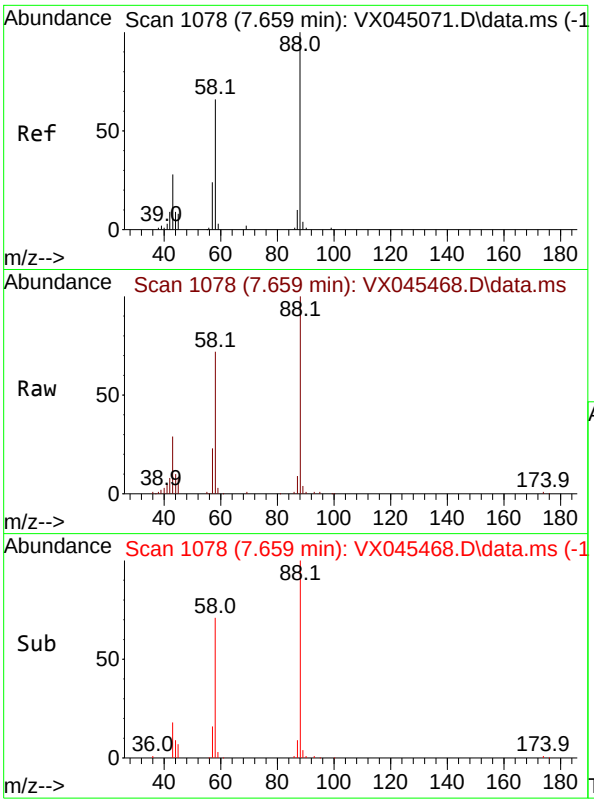


#48
Methyl methacrylate
Concen: 65.022 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 41 Resp: 80811

Ion	Ratio	Lower	Upper
41	100		
69	73.8	63.0	94.6
39	64.5	47.5	71.3



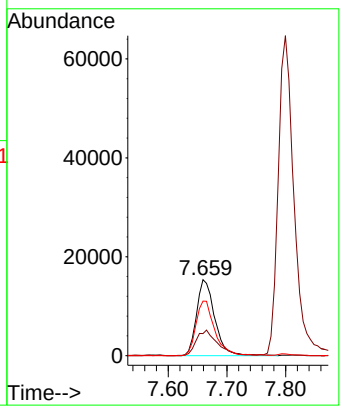


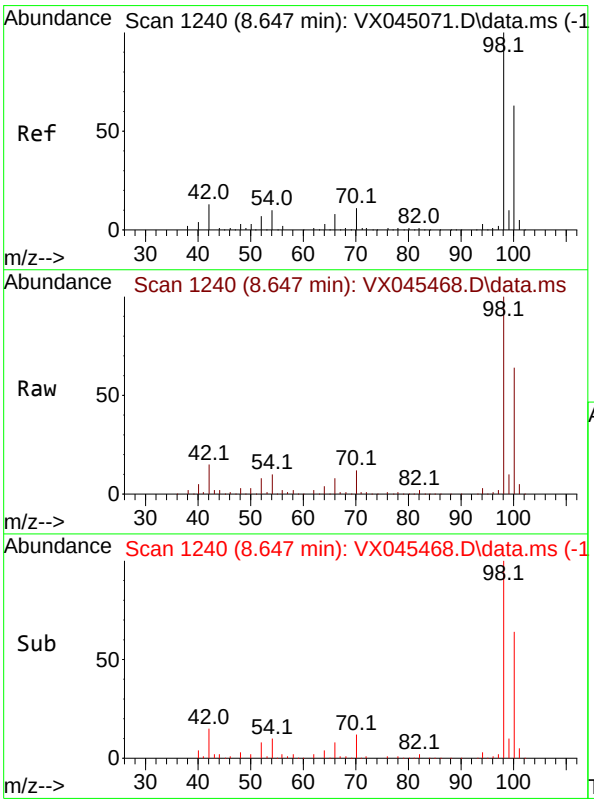
#49
1,4-Dioxane
Concen: 1256.441 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 88 Resp: 32939

Ion	Ratio	Lower	Upper
88	100		
43	39.8	28.7	43.1
58	73.9	55.8	83.8

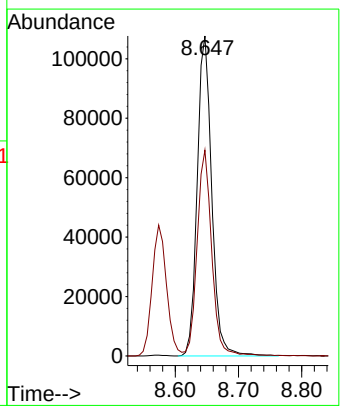


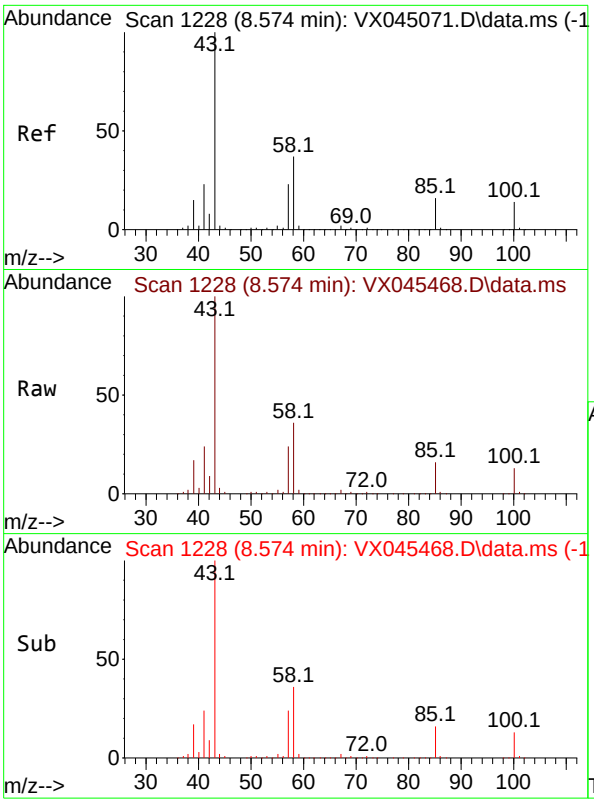


#50
Toluene-d8
Concen: 50.192 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 98 Resp: 172507

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0



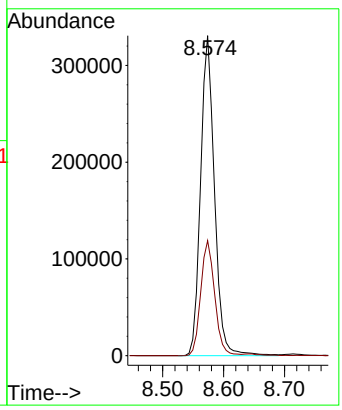


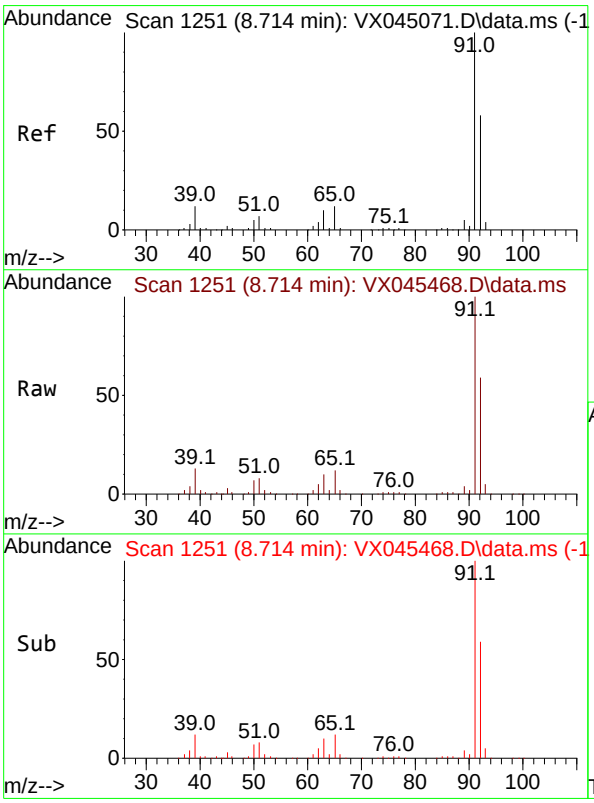
#51
4-Methyl-2-Pentanone
Concen: 315.900 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 43 Resp: 525454

Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.2	43.8

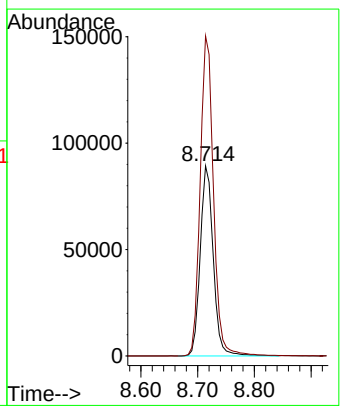


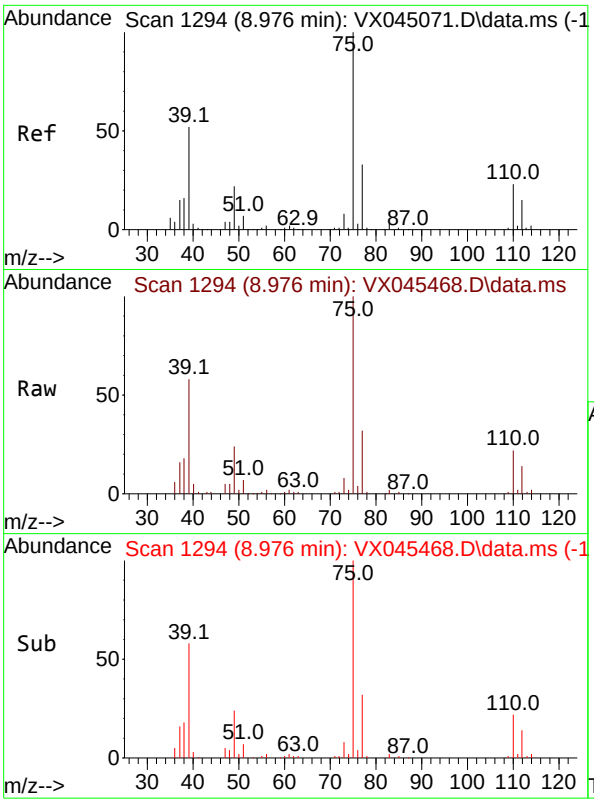


#52
Toluene
Concen: 59.114 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 92 Resp: 142393

Ion	Ratio	Lower	Upper
92	100		
91	171.7	138.9	208.3



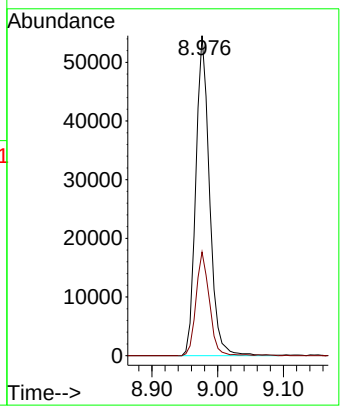


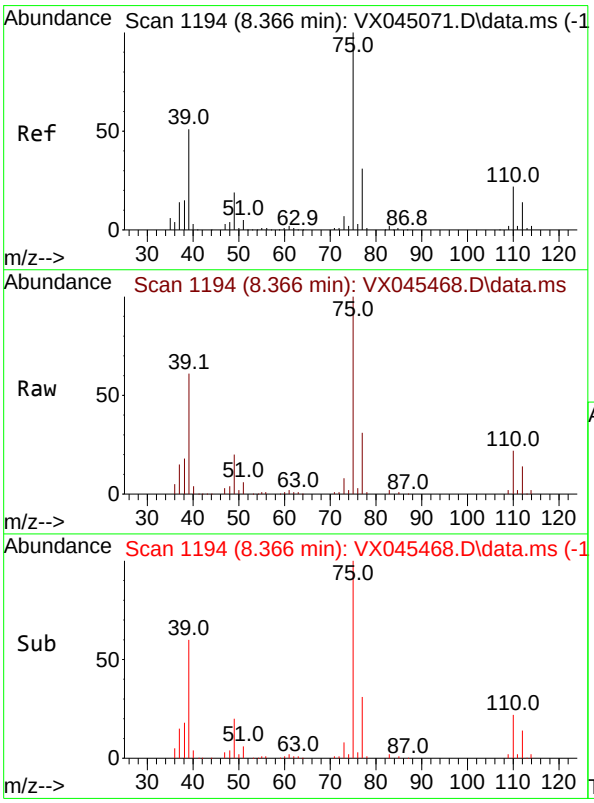
#53
t-1,3-Dichloropropene
Concen: 64.712 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 75 Resp: 79170

Ion	Ratio	Lower	Upper
75	100		
77	32.4	26.5	39.7

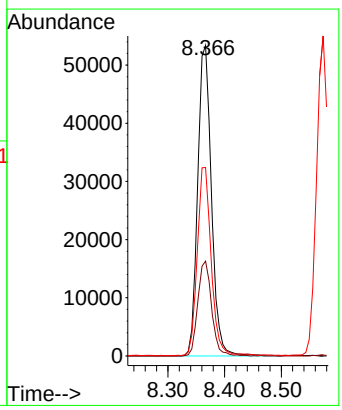


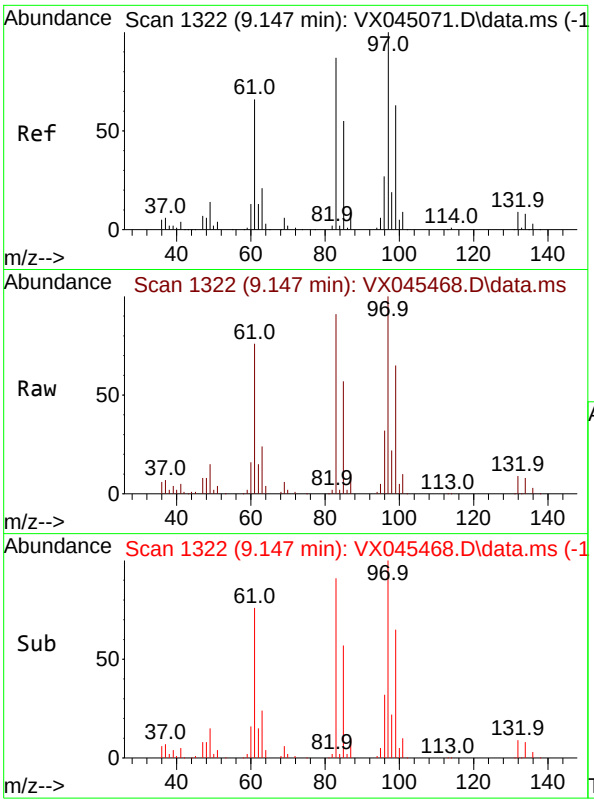


#54
cis-1,3-Dichloropropene
Concen: 63.050 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 89949

Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.7	37.1
39	60.5	40.7	61.1



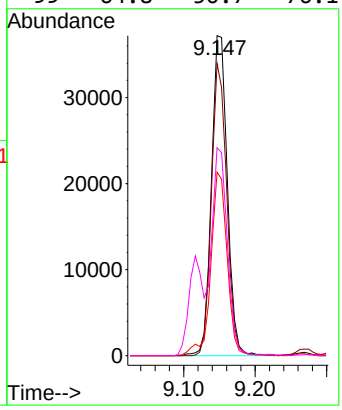


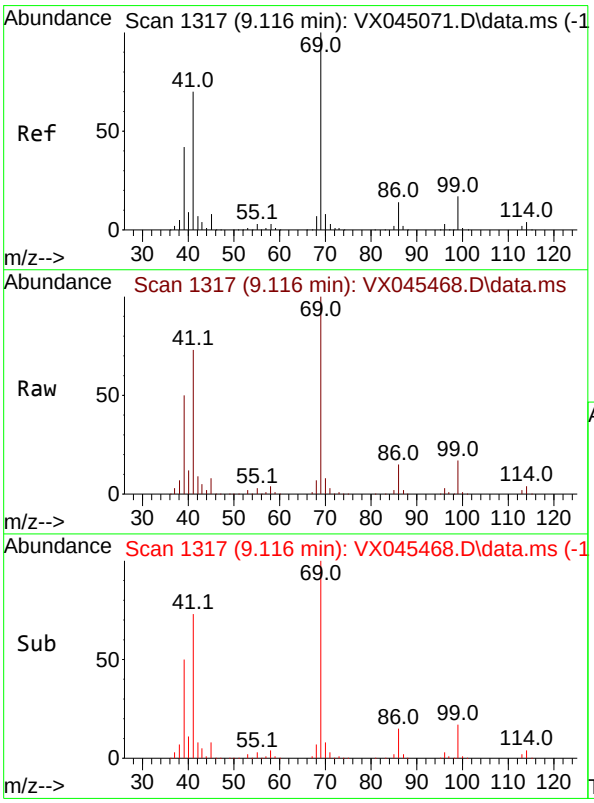
#55
1,1,2-Trichloroethane
Concen: 57.798 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 97 Resp: 57314

Ion	Ratio	Lower	Upper
97	100		
83	91.3	69.4	104.2
85	57.2	44.1	66.1
99	64.8	50.7	76.1

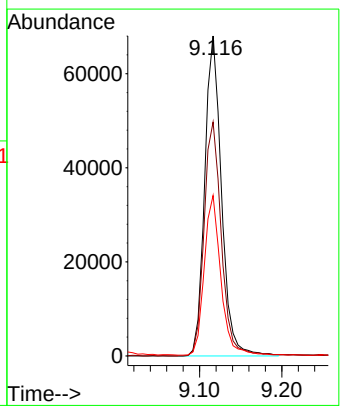


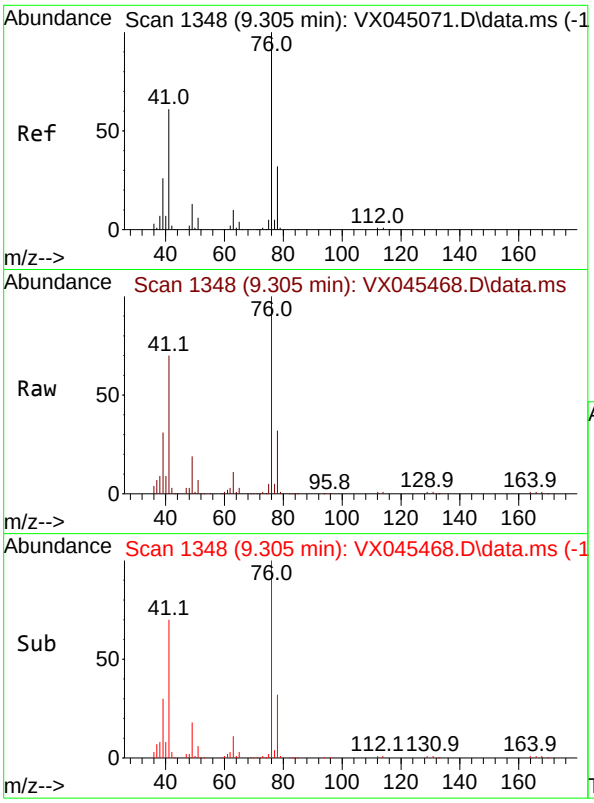


#56
Ethyl methacrylate
Concen: 64.139 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 69 Resp: 96679

Ion	Ratio	Lower	Upper
69	100		
41	75.9	57.0	85.4
39	49.3	34.2	51.4



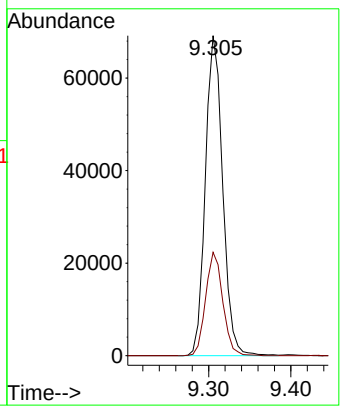


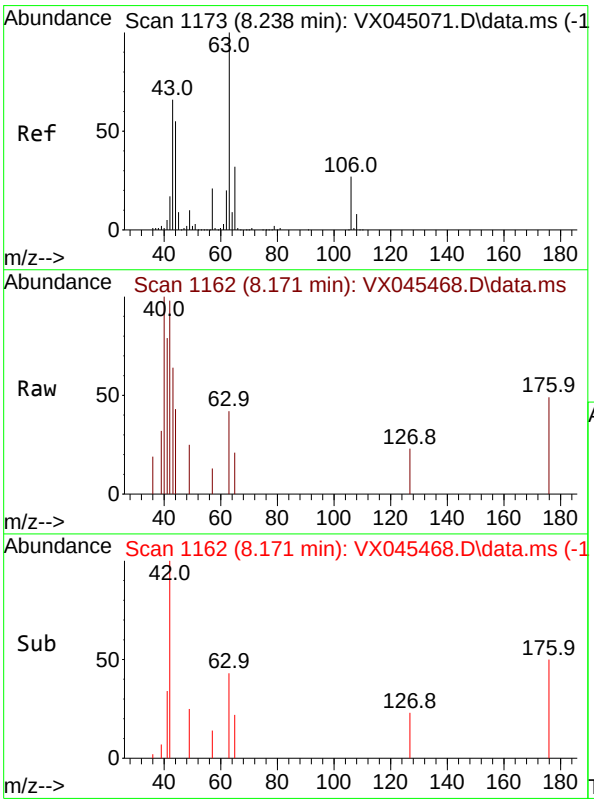
#57
1,3-Dichloropropane
Concen: 58.931 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 76 Resp: 101131

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

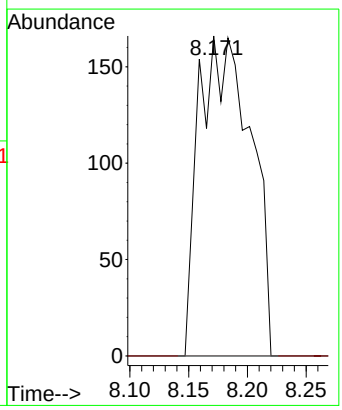


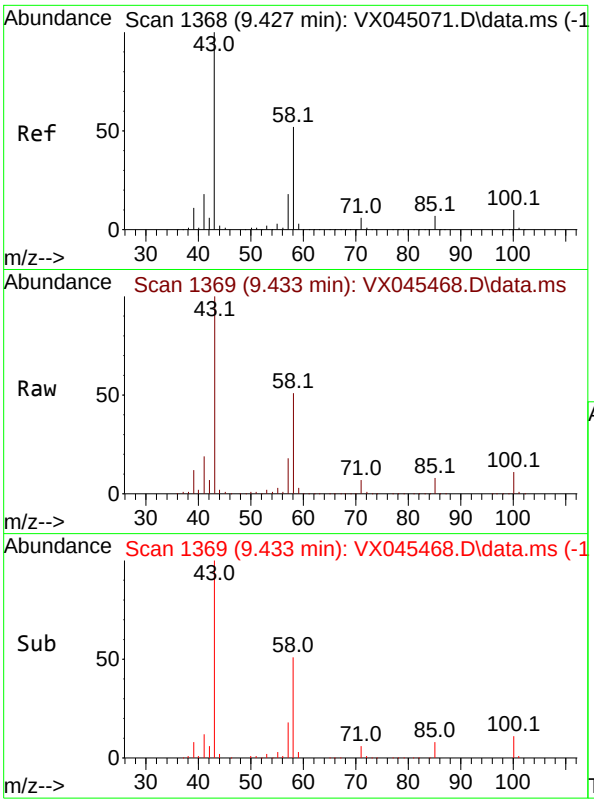


#58
2-Chloroethyl Vinyl ether
Concen: 0.694 ug/l
RT: 8.171 min Scan# 1162
Delta R.T. -0.067 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 63 Resp: 510

Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.5	32.3#



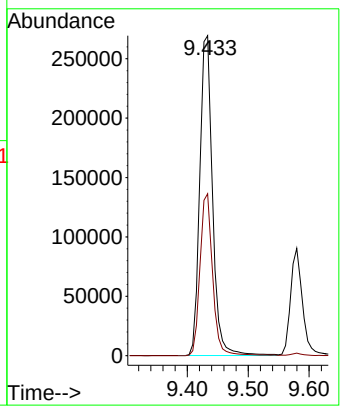


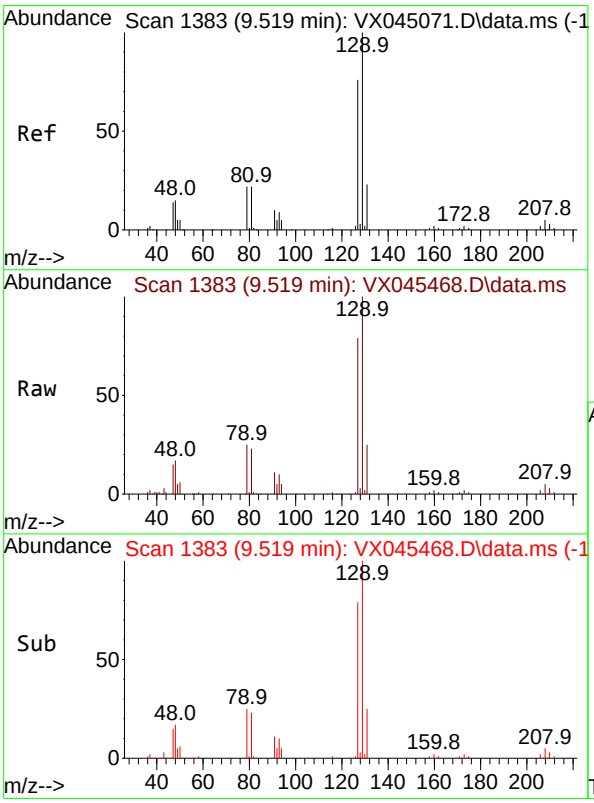
#59
2-Hexanone
Concen: 325.728 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 43 Resp: 392557

Ion	Ratio	Lower	Upper
43	100		
58	50.1	25.9	77.6

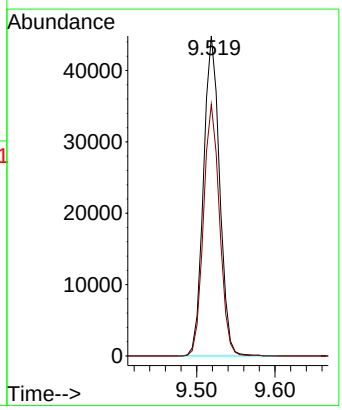


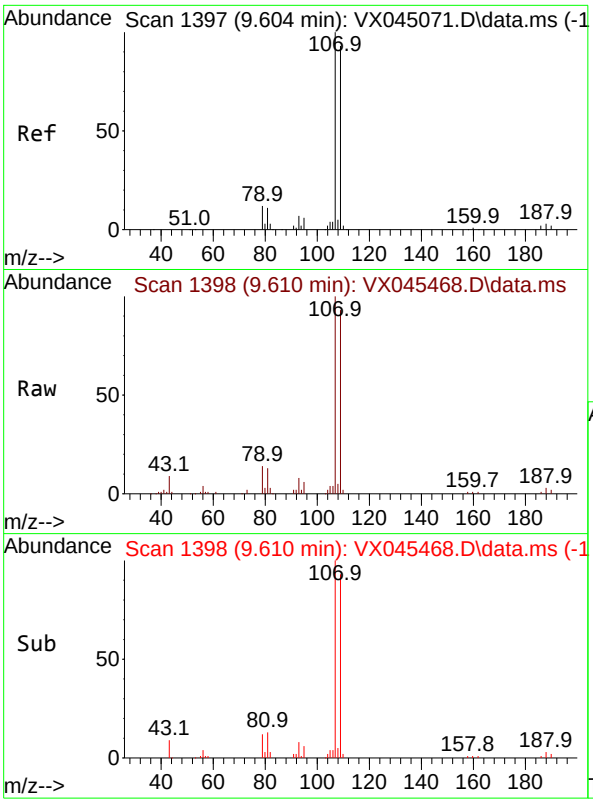


#60
Dibromochloromethane
Concen: 61.714 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:129 Resp: 63988

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.5	115.5



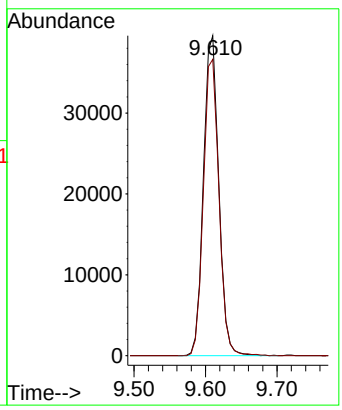


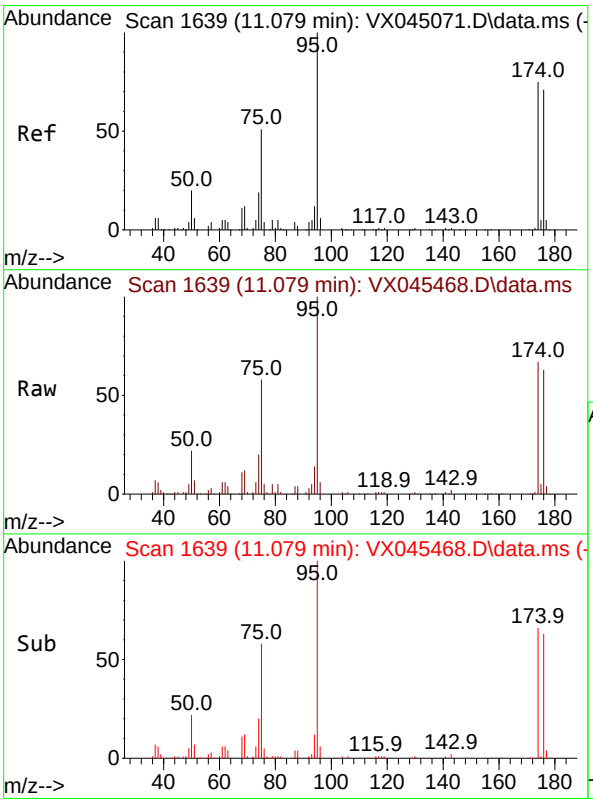
#61
1,2-Dibromoethane
Concen: 59.453 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:107 Resp: 58855

Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.1	114.1

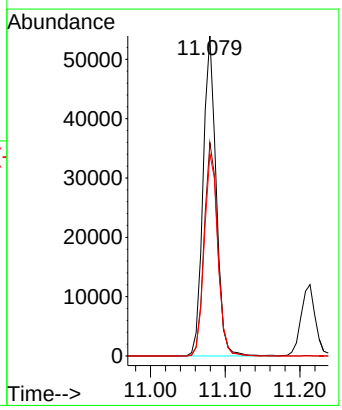


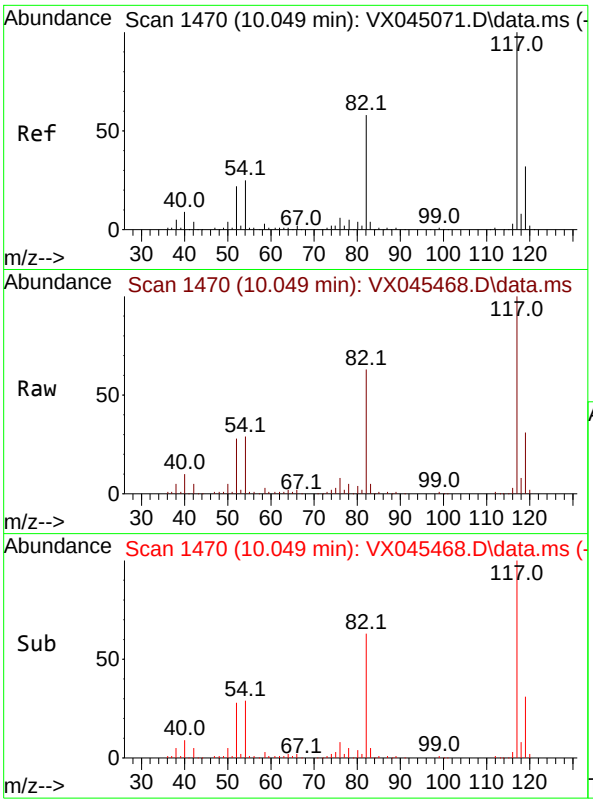


#62
4-Bromofluorobenzene
Concen: 57.531 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 95 Resp: 65522

Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	148.2
176	65.6	0.0	141.4



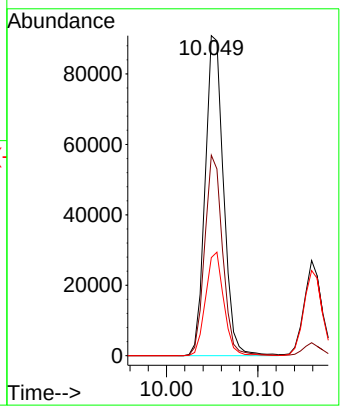


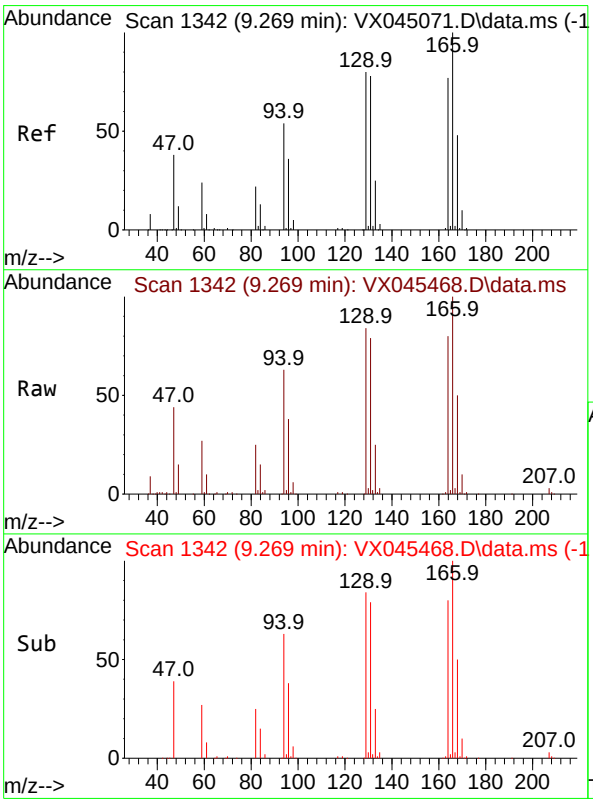
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:117 Resp: 126420

Ion	Ratio	Lower	Upper
117	100		
82	62.6	46.3	69.5
119	30.6	25.7	38.5

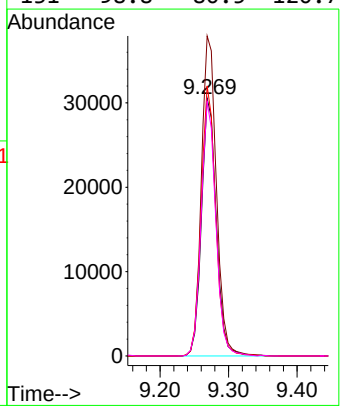


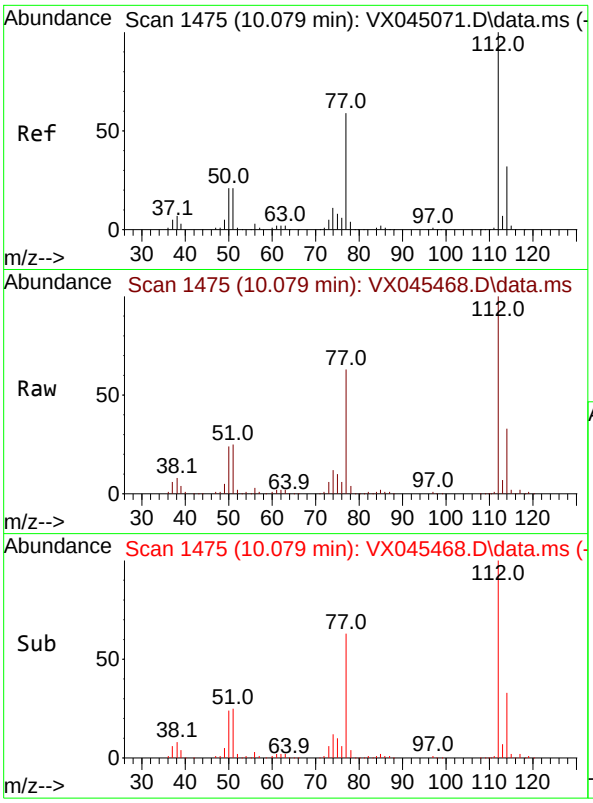


#64
Tetrachloroethene
Concen: 56.686 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:164 Resp: 45897

Ion	Ratio	Lower	Upper
164	100		
166	124.3	103.6	155.4
129	104.9	82.7	124.1
131	98.8	80.5	120.7



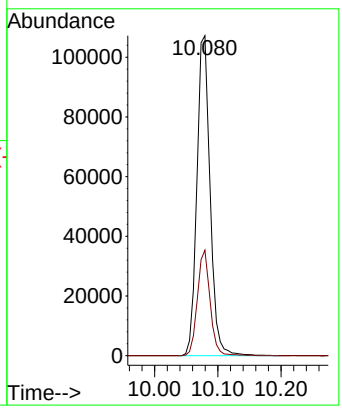


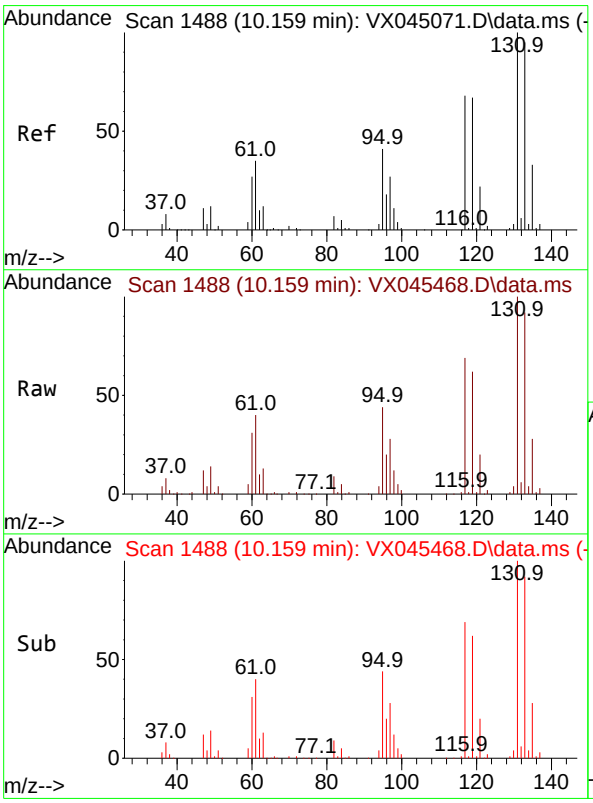
#65
Chlorobenzene
Concen: 58.324 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:112 Resp: 156019

Ion	Ratio	Lower	Upper
112	100		
114	32.9	26.0	39.0

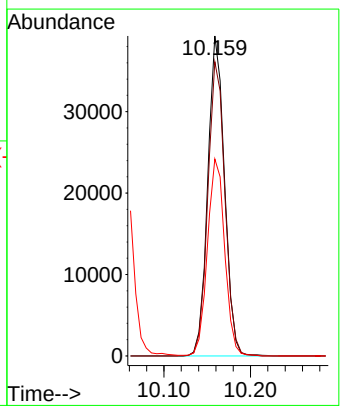


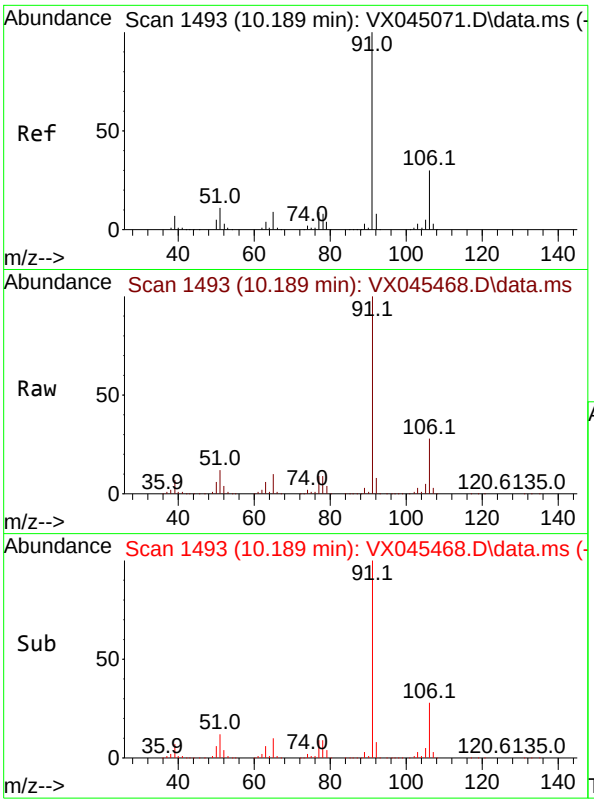


#66
1,1,1,2-Tetrachloroethane
Concen: 59.230 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:131 Resp: 52764

Ion	Ratio	Lower	Upper
131	100		
133	93.8	48.6	145.9
119	63.6	33.9	101.7



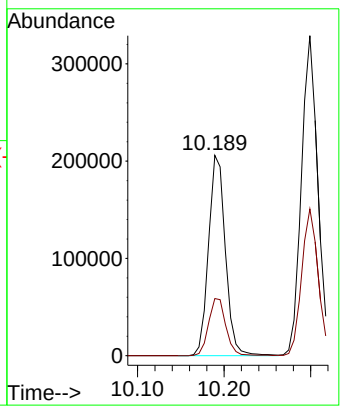


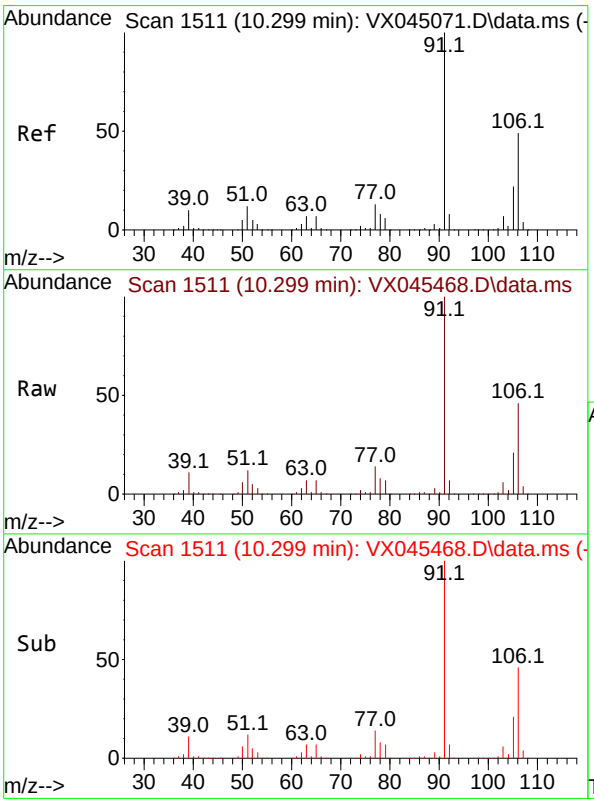
#67
Ethyl Benzene
Concen: 59.770 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 91 Resp: 278593

Ion	Ratio	Lower	Upper
91	100		
106	28.5	23.9	35.9

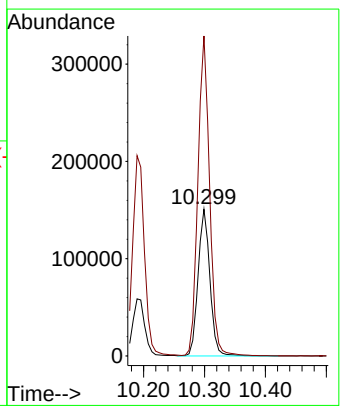


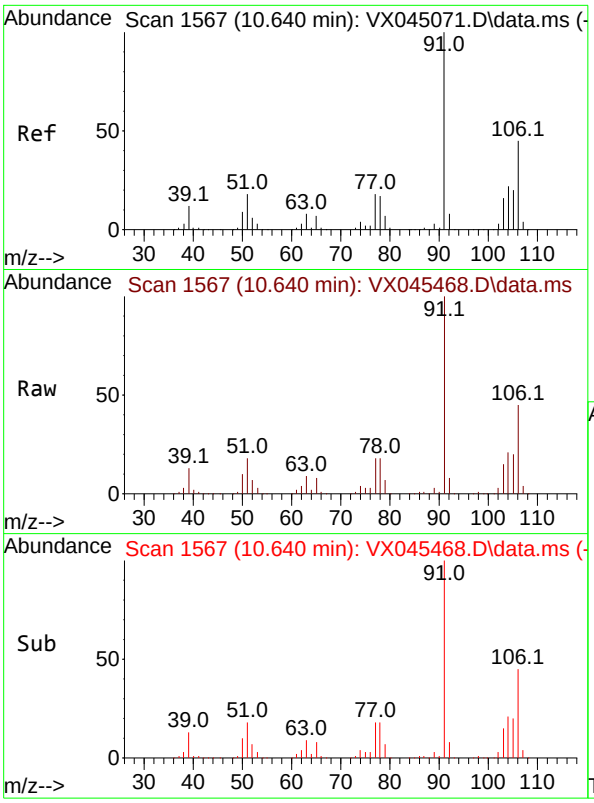


#68
m/p-Xylenes
Concen: 118.876 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:106 Resp: 202838

Ion	Ratio	Lower	Upper
106	100		
91	216.4	165.4	248.0



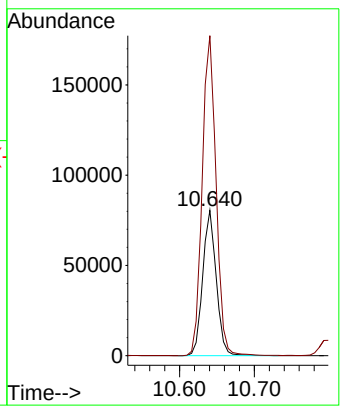


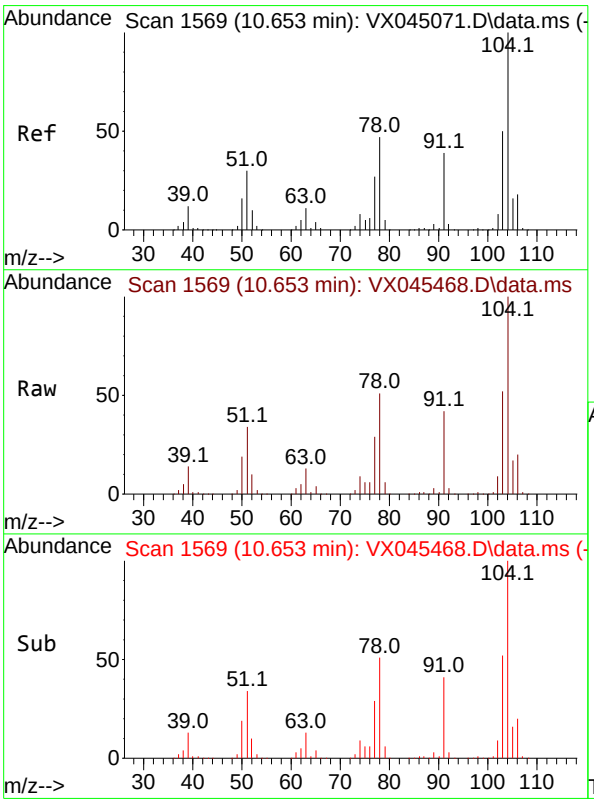
#69
o-Xylene
Concen: 58.702 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:106 Resp: 101021

Ion	Ratio	Lower	Upper
106	100		
91	226.2	109.9	329.6

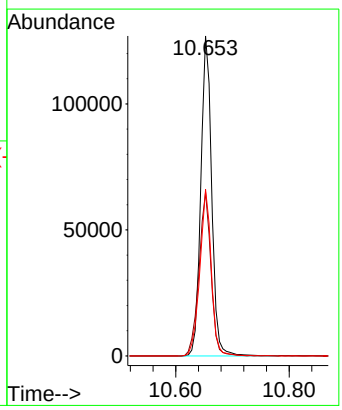


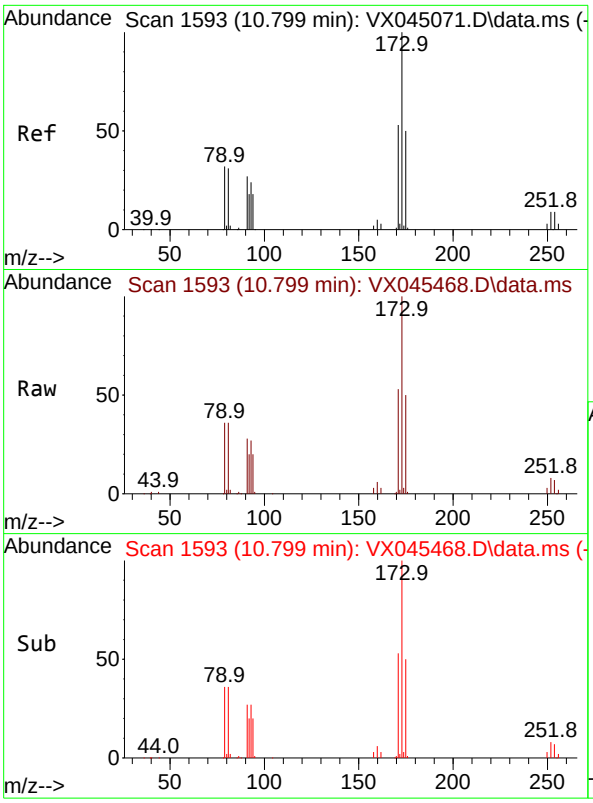


#70
Styrene
Concen: 60.884 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:104 Resp: 169533

Ion	Ratio	Lower	Upper
104	100		
78	56.7	42.2	63.4
103	55.0	43.8	65.8



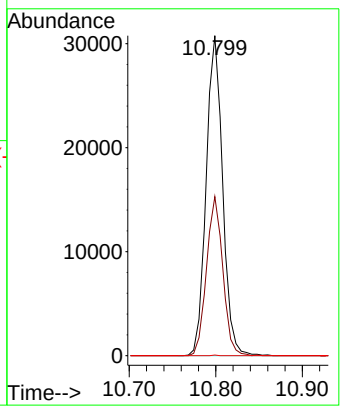


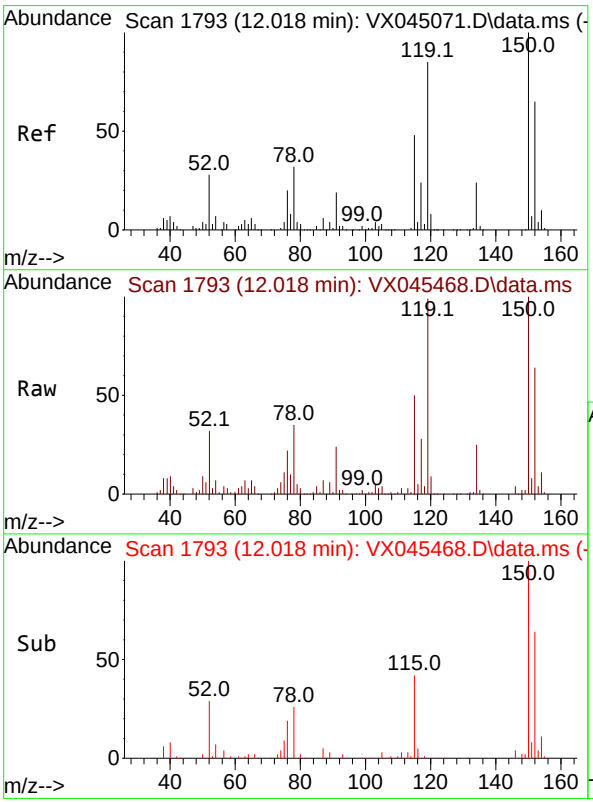
#71
Bromoform
Concen: 60.492 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:173 Resp: 40637

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.6	73.6
254	0.0	0.0	0.0#

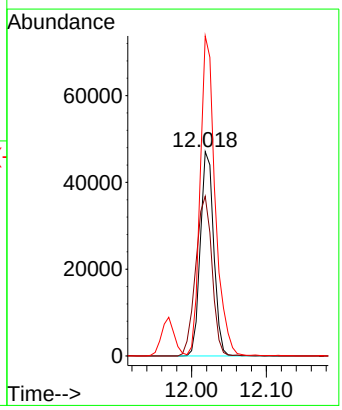


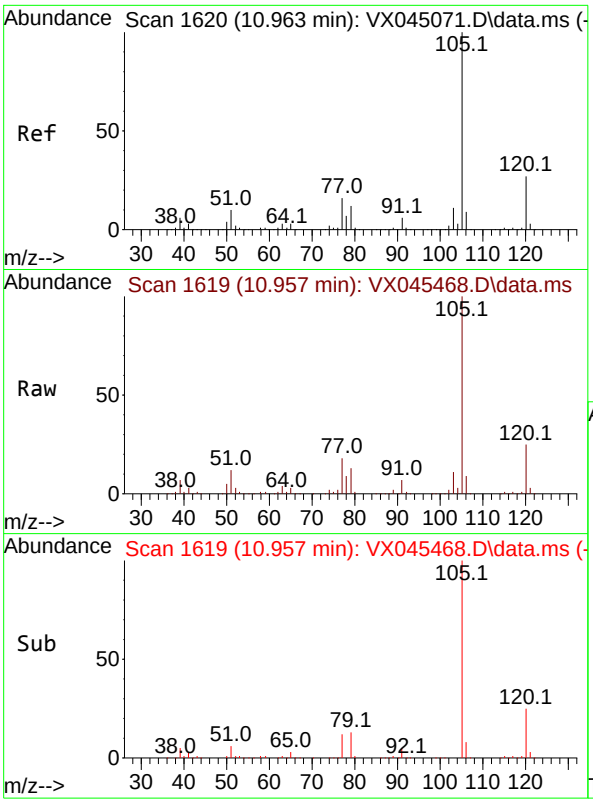


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:152 Resp: 58644

Ion	Ratio	Lower	Upper
152	100		
115	95.2	44.2	132.6
150	174.3	0.0	349.0



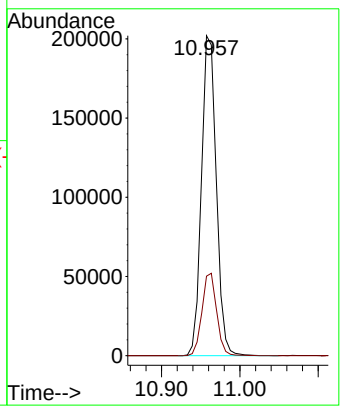


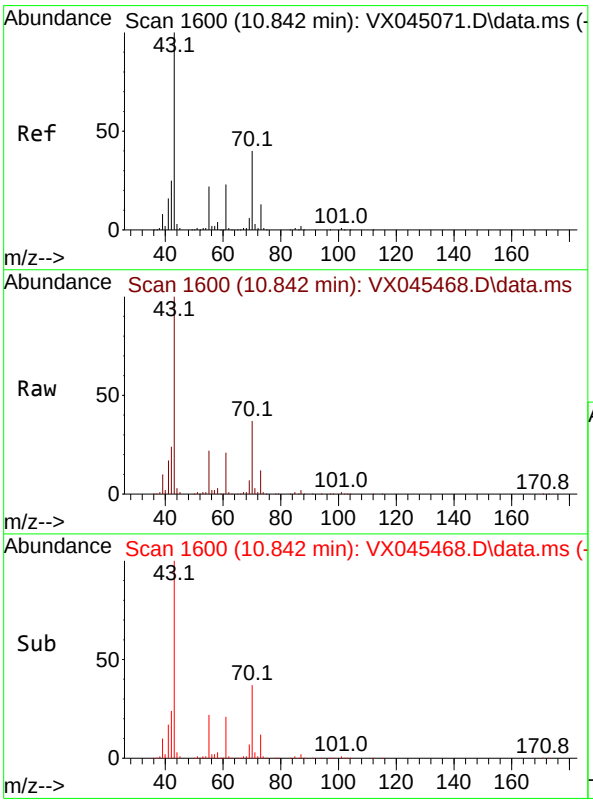
#73
Isopropylbenzene
Concen: 58.007 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:105 Resp: 265519

Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.2	39.5

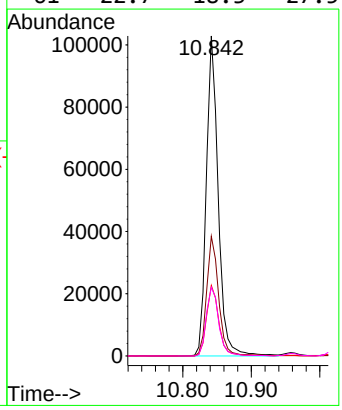


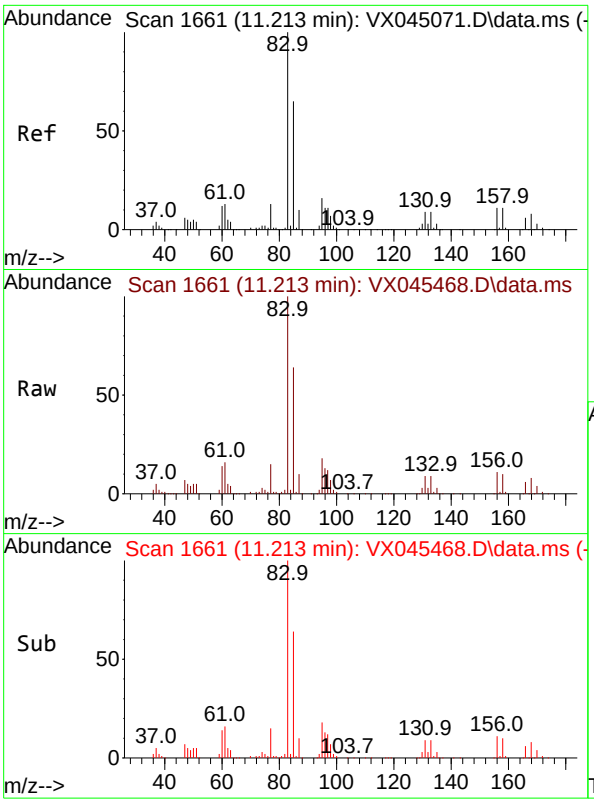


#74
N-amyl acetate
Concen: 57.873 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 43 Resp: 124302

Ion	Ratio	Lower	Upper
43	100		
70	37.8	31.8	47.6
55	22.7	18.3	27.5
61	22.7	18.3	27.5



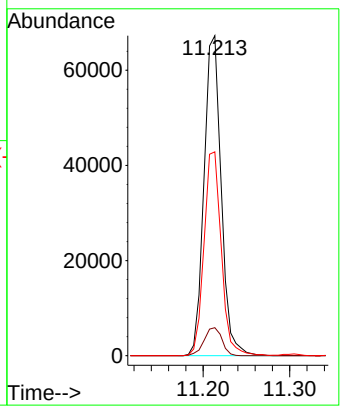


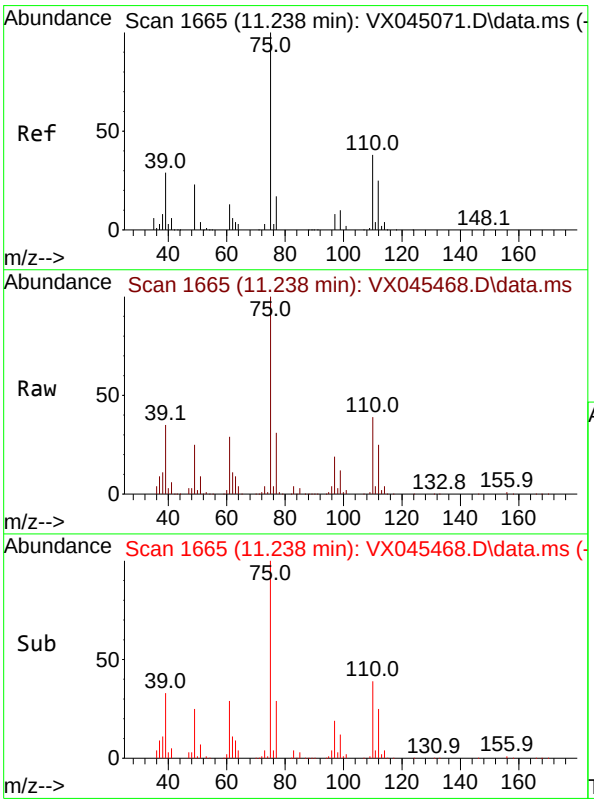
#75
1,1,2,2-Tetrachloroethane
Concen: 55.205 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 83 Resp: 92728

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.4
85	64.2	31.7	95.1

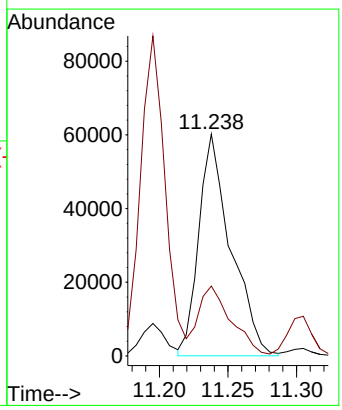


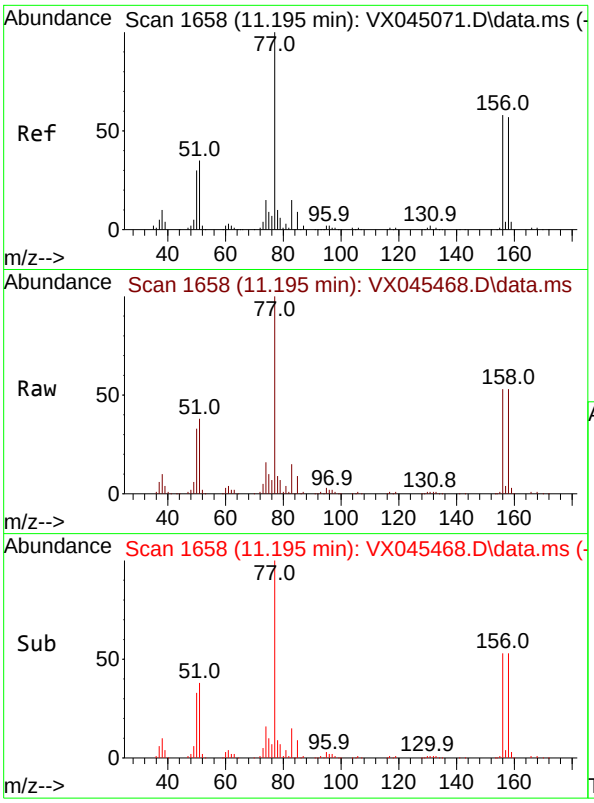


#76
1,2,3-Trichloropropane
Concen: 71.890 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 98126

Ion	Ratio	Lower	Upper
75	100		
77	32.2	20.7	62.1



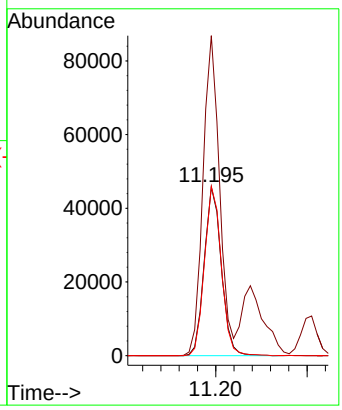


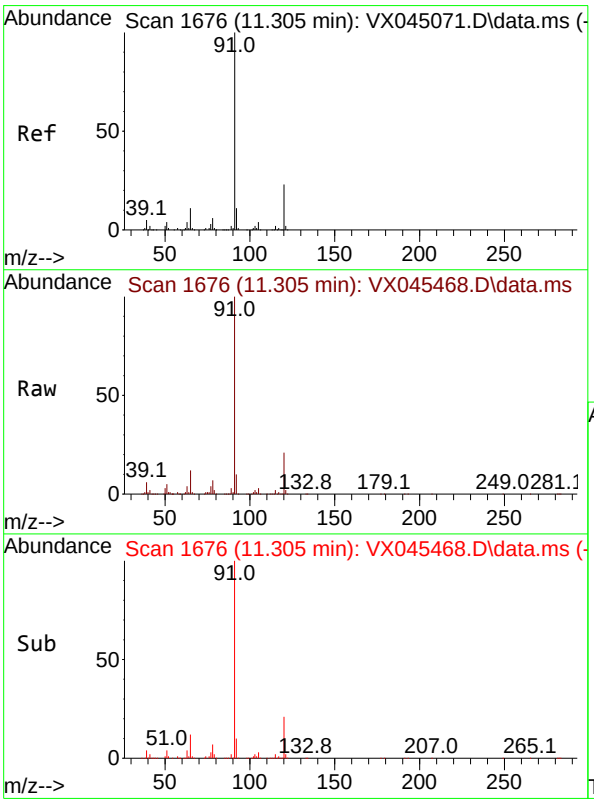
#77
Bromobenzene
Concen: 54.922 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:156 Resp: 59315

Ion	Ratio	Lower	Upper
156	100		
77	183.6	85.8	257.4
158	99.2	48.4	145.2

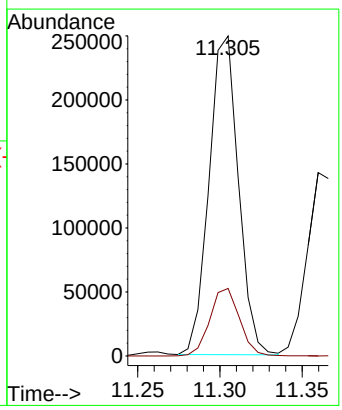


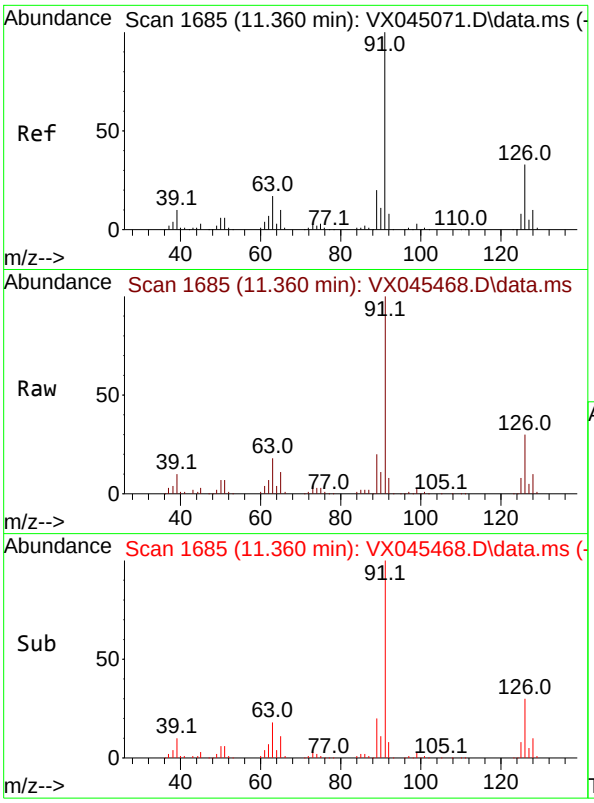


#78
n-propylbenzene
Concen: 59.924 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 91 Resp: 309849

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6



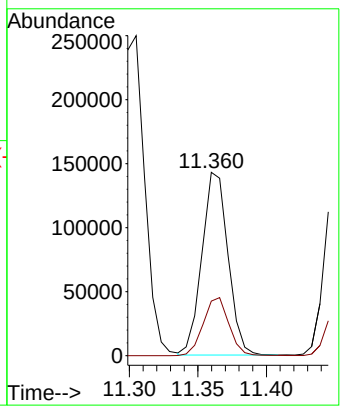


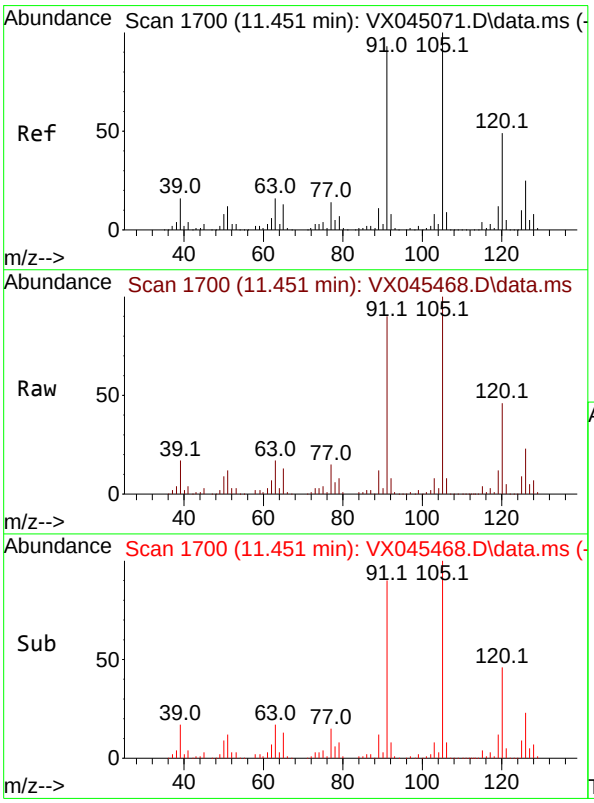
#79
2-Chlorotoluene
Concen: 57.349 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 91 Resp: 188852

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.4	49.4

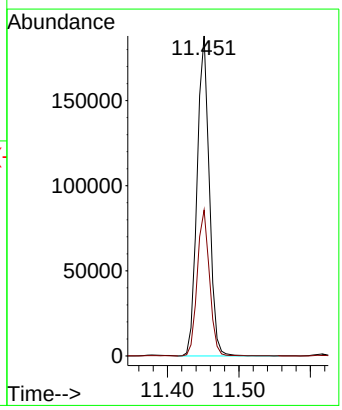


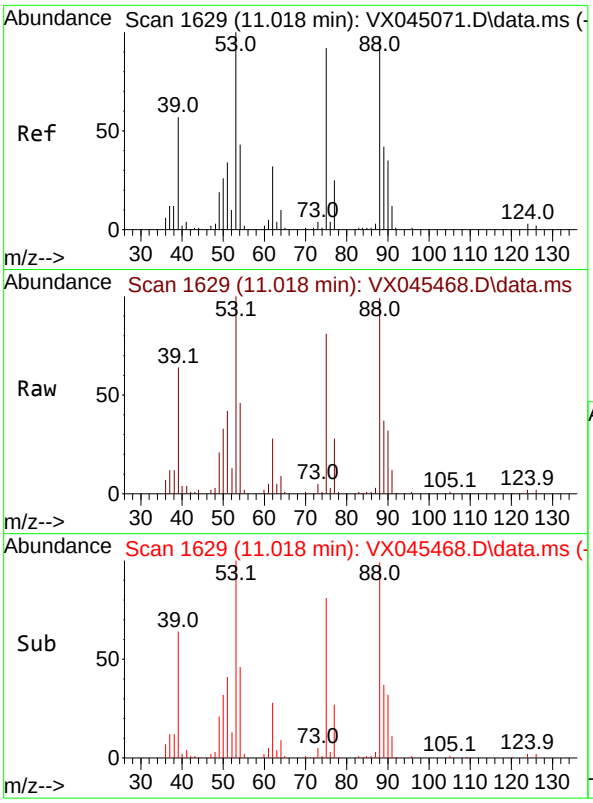


#80
1,3,5-Trimethylbenzene
Concen: 59.996 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:105 Resp: 222054

Ion	Ratio	Lower	Upper
105	100		
120	45.8	24.1	72.2



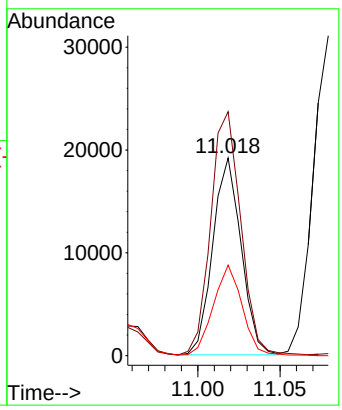


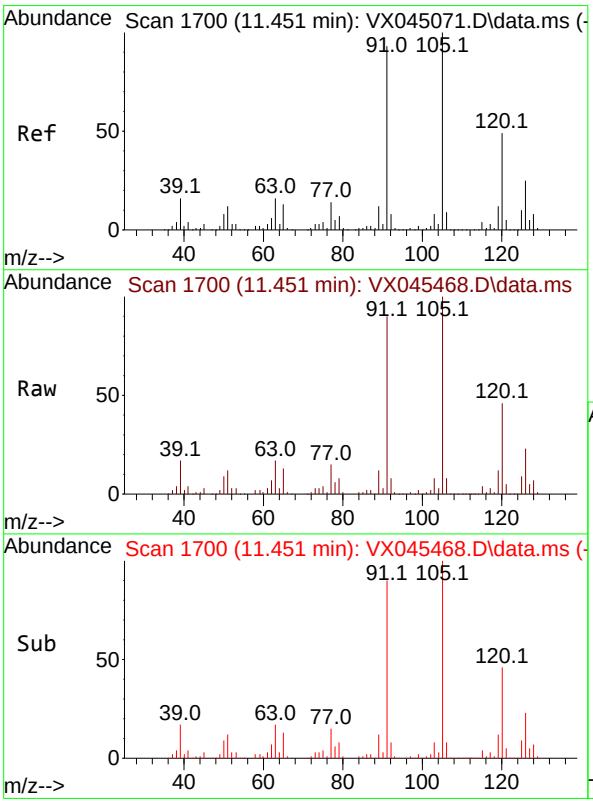
#81
trans-1,4-Dichloro-2-butene
Concen: 57.718 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 75 Resp: 23021

Ion	Ratio	Lower	Upper
75	100		
53	130.6	88.5	132.7
89	47.1	36.2	54.4

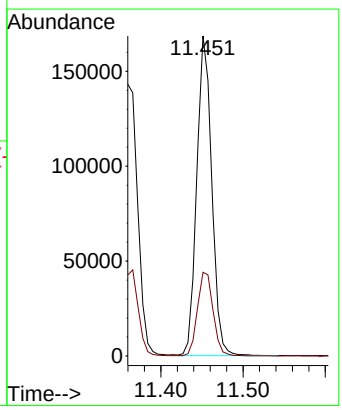


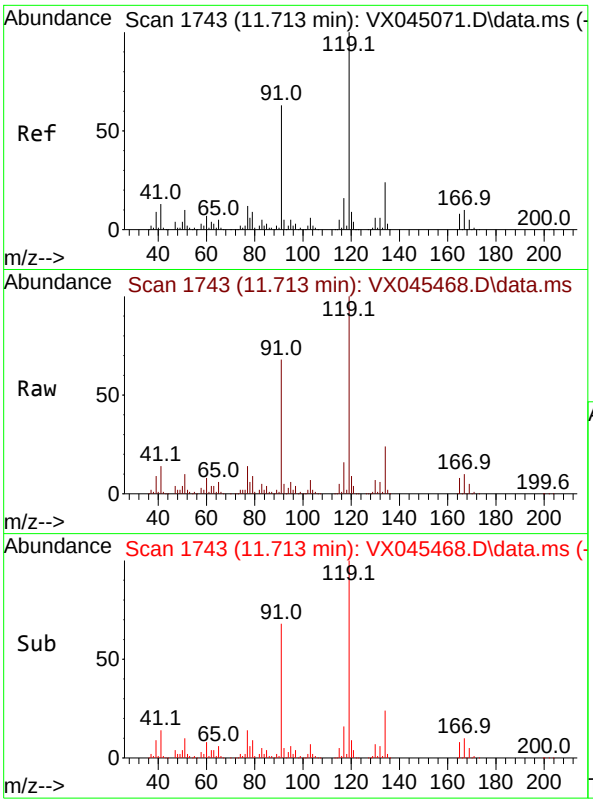


#82
4-Chlorotoluene
Concen: 59.504 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 91 Resp: 213558

Ion	Ratio	Lower	Upper
91	100		
126	27.4	14.1	42.4



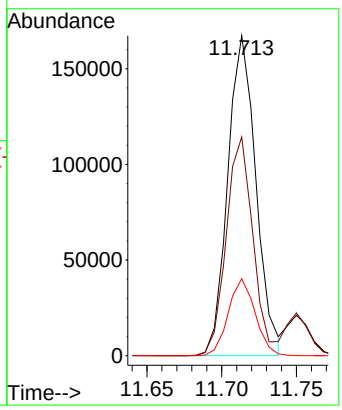


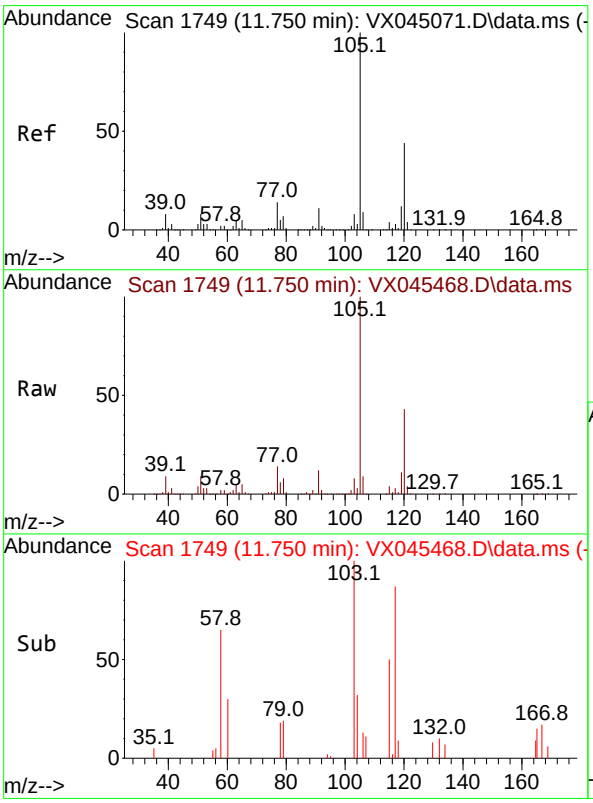
#83
tert-Butylbenzene
Concen: 57.694 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:119 Resp: 219401

Ion	Ratio	Lower	Upper
119	100		
91	65.1	30.7	92.1
134	22.9	11.7	35.0

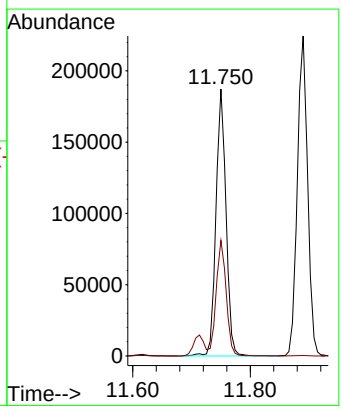


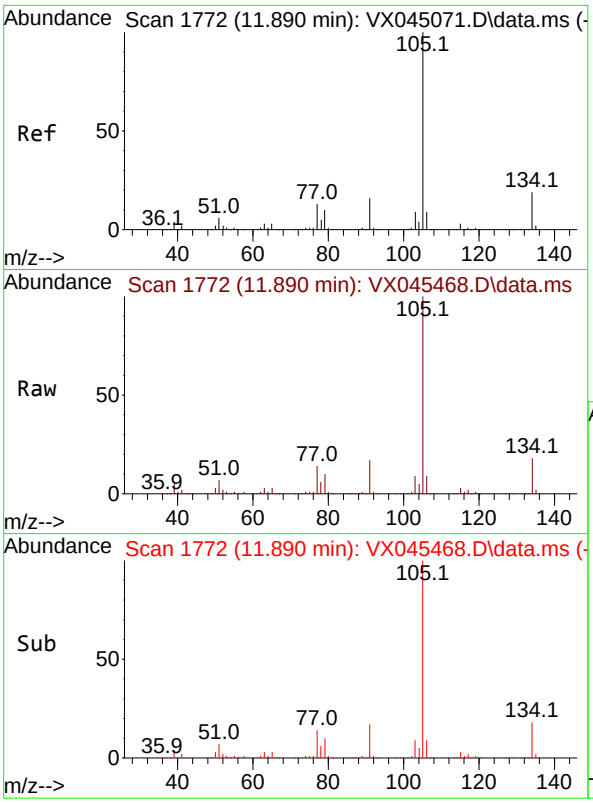


#84
1,2,4-Trimethylbenzene
Concen: 59.599 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:105 Resp: 221950

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.1	66.1



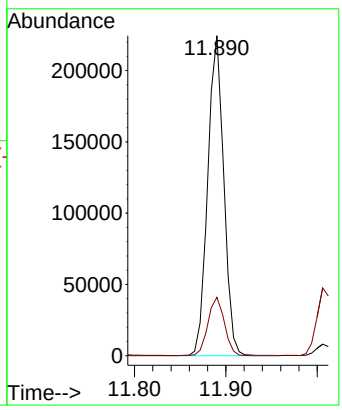


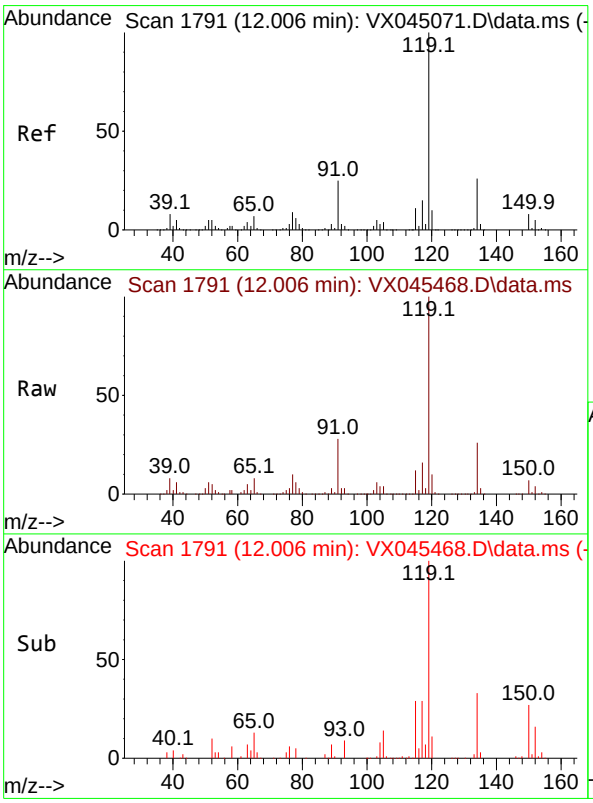
#85
sec-Butylbenzene
Concen: 59.984 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:105 Resp: 273244

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.4

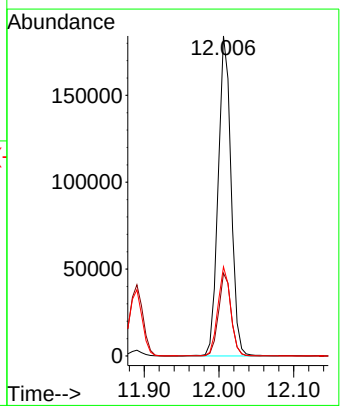


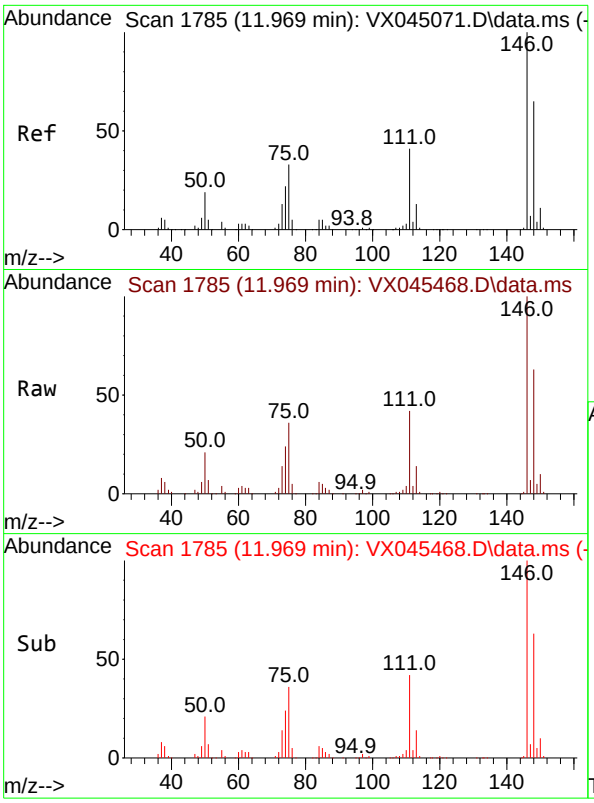


#86
p-Isopropyltoluene
Concen: 60.146 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:119 Resp: 221416

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.9	38.6
91	27.3	12.7	38.0



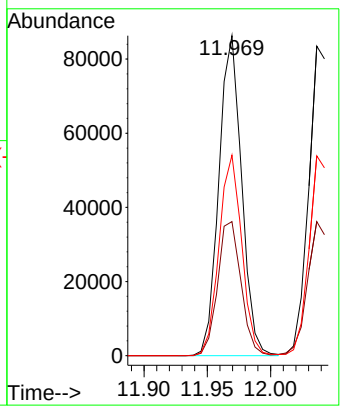


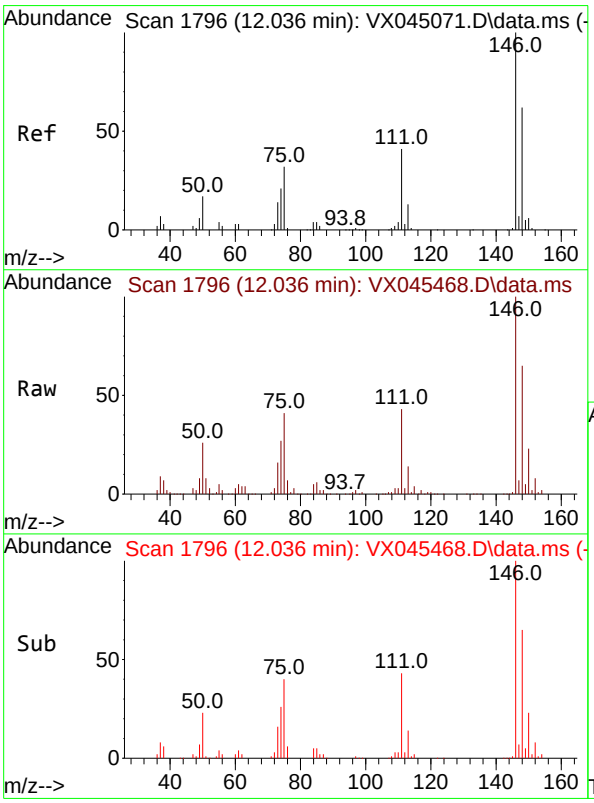
#87
1,3-Dichlorobenzene
Concen: 55.961 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:146 Resp: 107816

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.4
148	62.7	31.9	95.7

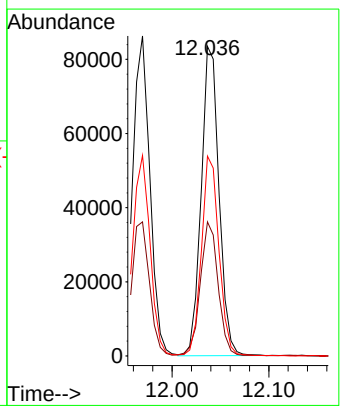


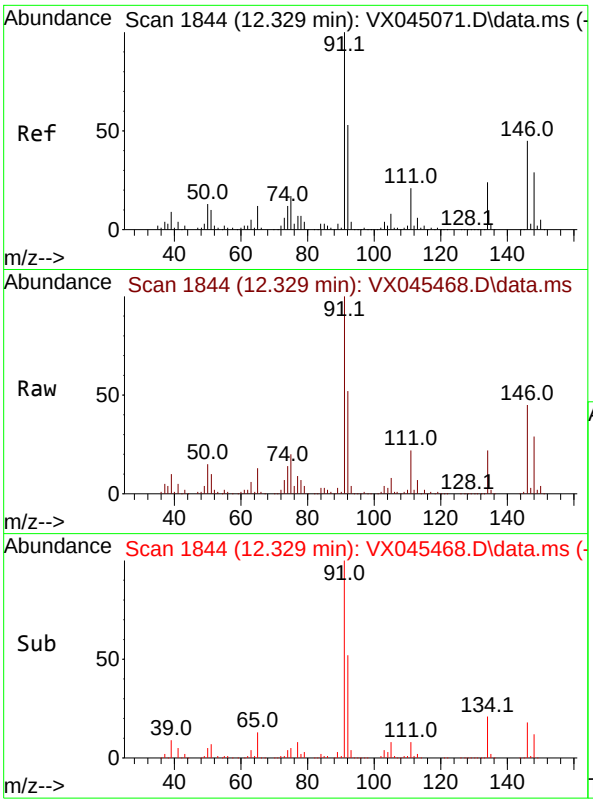


#88
1,4-Dichlorobenzene
Concen: 54.842 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:146 Resp: 106898

Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.2	60.5
148	63.8	31.9	95.9



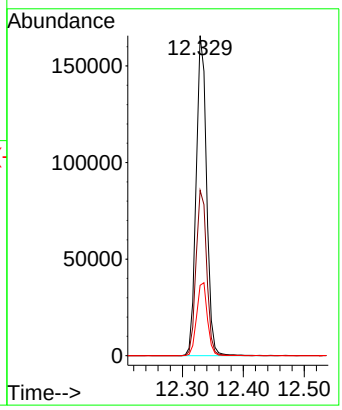


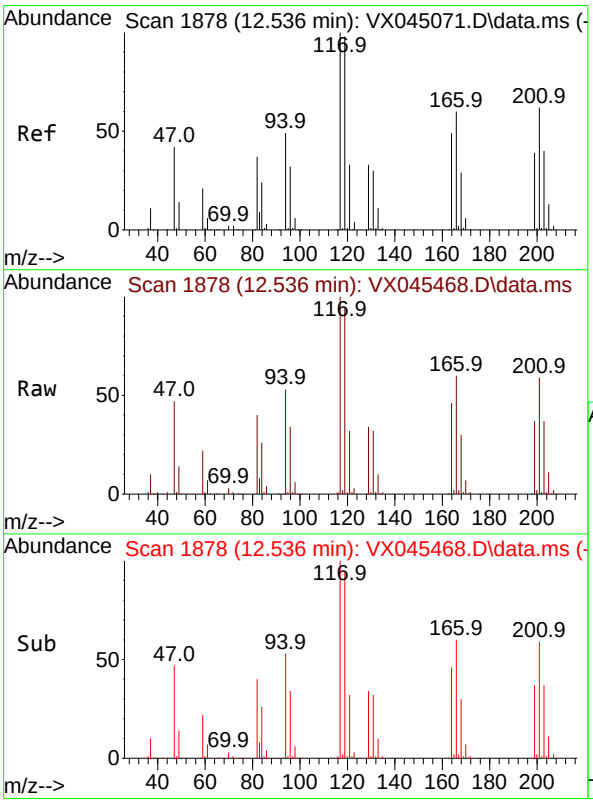
#89
n-Butylbenzene
Concen: 61.962 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion: 91 Resp: 196457

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.7	80.0
134	23.5	12.2	36.6

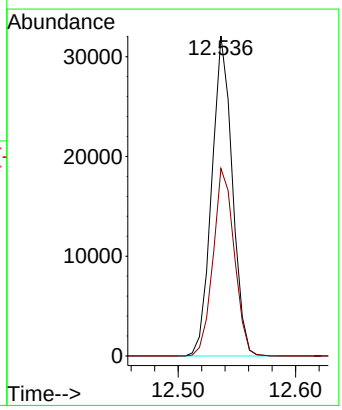


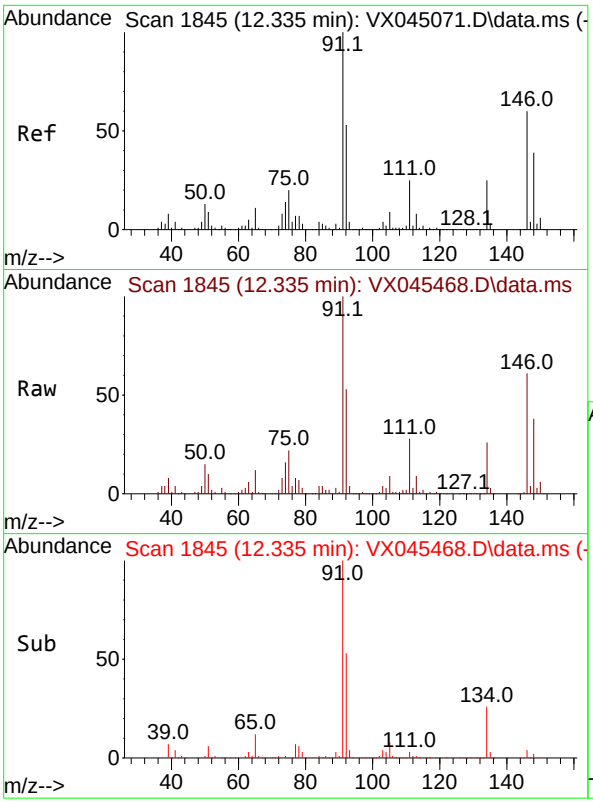


#90
Hexachloroethane
Concen: 58.539 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:117 Resp: 38979

Ion	Ratio	Lower	Upper
117	100		
201	60.3	31.9	95.9



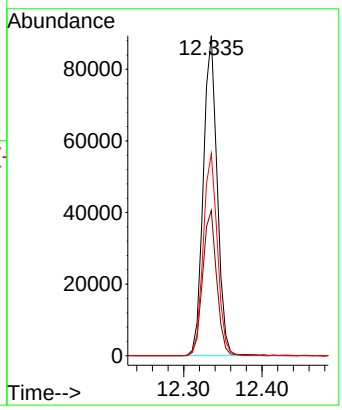


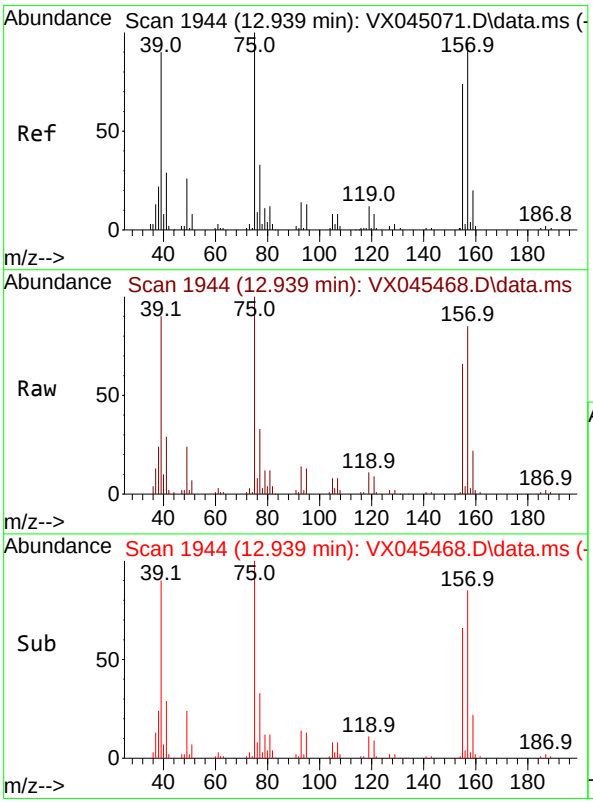
#91
1,2-Dichlorobenzene
Concen: 56.821 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:146 Resp: 109816

Ion	Ratio	Lower	Upper
146	100		
111	45.6	21.6	65.0
148	64.4	31.9	95.9

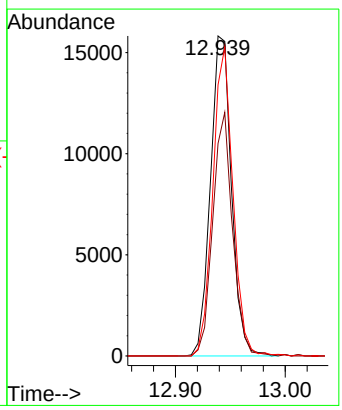


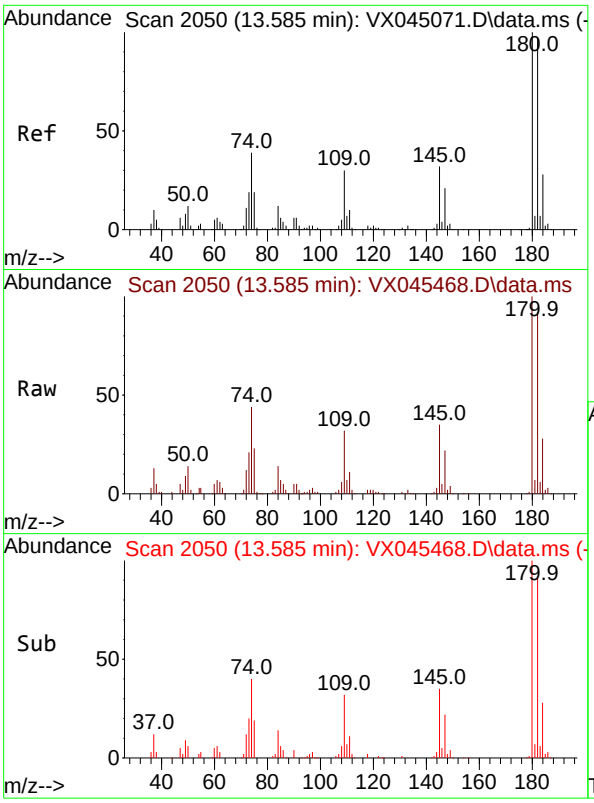


#92
1,2-Dibromo-3-Chloropropane
Concen: 64.546 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion: 75 Resp: 21122

Ion	Ratio	Lower	Upper
75	100		
155	72.0	39.6	118.7
157	92.5	51.1	153.4



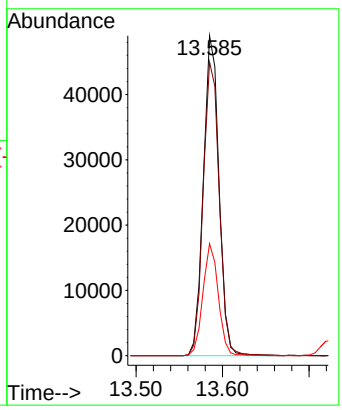


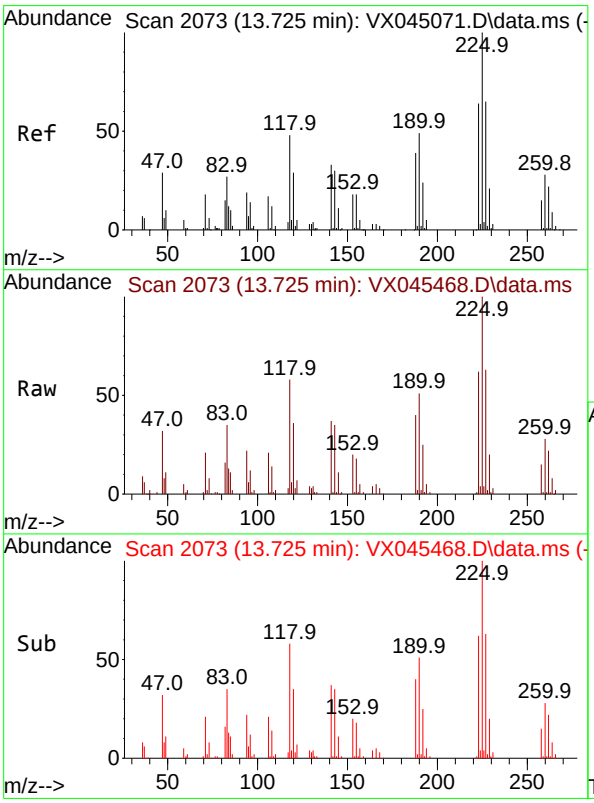
#93
1,2,4-Trichlorobenzene
Concen: 55.821 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:180 Resp: 61430

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.3	141.9
145	34.5	16.3	48.9

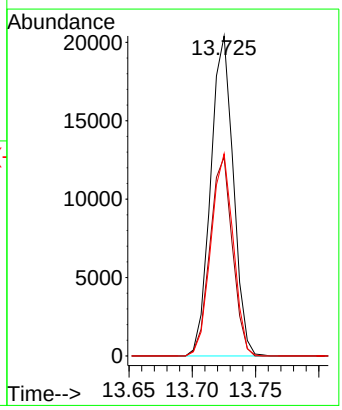


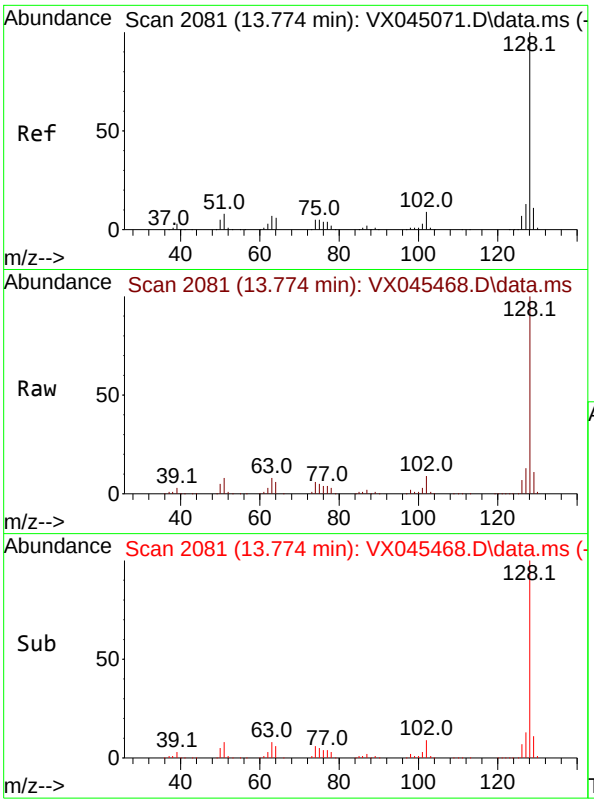


#94
Hexachlorobutadiene
Concen: 56.244 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:225 Resp: 25376

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.9	95.7
227	62.3	31.4	94.0



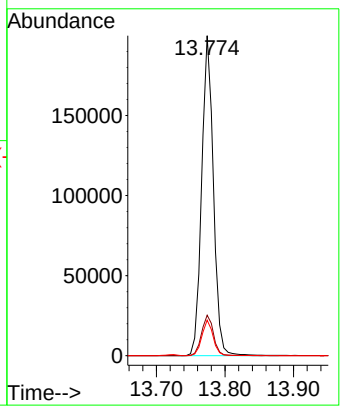


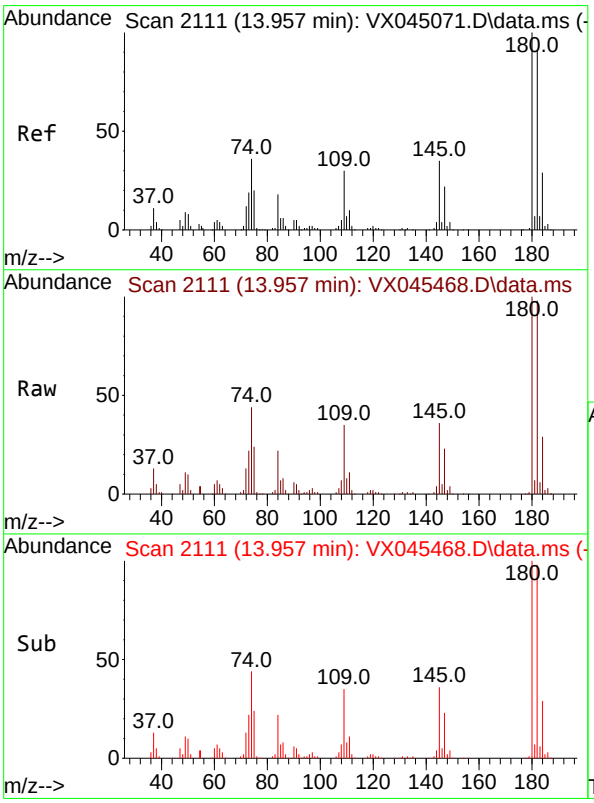
#95
Naphthalene
Concen: 56.338 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
TT188S1-20250320MSD

Tgt Ion:128 Resp: 238208

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.7	8.7	13.1

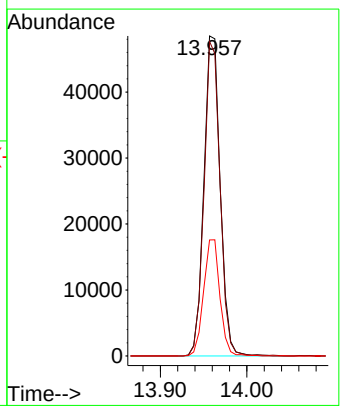




#96
1,2,3-Trichlorobenzene
Concen: 54.598 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045468.D
Acq: 26 Mar 2025 14:29

Tgt Ion:180 Resp: 63386

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.6
145	36.3	17.0	50.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	84345	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	144626	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	126386	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57791	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	65921	49.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.260%			
35) Dibromofluoromethane	5.379	113	48382	50.029	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.060%			
50) Toluene-d8	8.641	98	162016	46.211	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.420%			
62) 4-Bromofluorobenzene	11.079	95	60080	51.714	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	71350	67.203	ug/l	96
3) Chloromethane	1.307	50	66647	51.295	ug/l	96
4) Vinyl Chloride	1.374	62	64556	50.085	ug/l	99
5) Bromomethane	1.593	94	30298	59.795	ug/l	97
6) Chloroethane	1.666	64	35200	59.207	ug/l	95
7) Trichlorofluoromethane	1.874	101	98682	57.834	ug/l	99
8) Diethyl Ether	2.130	74	32384	48.523	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	63716	64.996	ug/l	98
10) Methyl Iodide	2.441	142	72226	58.957	ug/l	94
11) Tert butyl alcohol	2.971	59	51894	204.206	ug/l	97
12) 1,1-Dichloroethene	2.307	96	58768	56.703	ug/l	93
13) Acrolein	2.233	56	82546	280.996	ug/l	99
14) Allyl chloride	2.654	41	108681	58.910	ug/l	92
15) Acrylonitrile	3.062	53	180476	264.982	ug/l	98
16) Acetone	2.380	43	184795	296.871	ug/l	96
17) Carbon Disulfide	2.502	76	146850	53.198	ug/l	98
18) Methyl Acetate	2.703	43	75783	50.607	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	194684	55.989	ug/l	99
20) Methylene Chloride	2.782	84	65778	53.346	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	58514	57.147	ug/l	97
22) Diisopropyl ether	3.757	45	211696	56.422	ug/l	94
23) Vinyl Acetate	3.715	43	959622	306.481	ug/l	99
24) 1,1-Dichloroethane	3.599	63	117697	55.973	ug/l	99
25) 2-Butanone	4.550	43	261690	279.291	ug/l	96
26) 2,2-Dichloropropane	4.465	77	87389	88.603	ug/l	94
27) cis-1,2-Dichloroethene	4.477	96	69978	55.363	ug/l	91
28) Bromochloromethane	4.885	49	50712	50.597	ug/l	99
29) Tetrahydrofuran	4.995	42	162120	257.649	ug/l	100
30) Chloroform	5.080	83	119560	57.224	ug/l	97
31) Cyclohexane	5.458	56	106330	58.253	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	102345	60.650	ug/l	97
36) 1,1-Dichloropropene	5.684	75	80834	60.949	ug/l	99
37) Ethyl Acetate	4.708	43	98735	57.775	ug/l	99
38) Carbon Tetrachloride	5.666	117	86948	64.575	ug/l	96
39) Methylcyclohexane	7.373	83	106496	67.014	ug/l	98
40) Benzene	6.025	78	245023	58.506	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	55588	60.156	ug/l		98
42) 1,2-Dichloroethane	6.080	62	98034	65.005	ug/l		97
43) Isopropyl Acetate	6.330	43	154848	61.276	ug/l		98
44) Trichloroethene	7.117	130	56755	57.714	ug/l		98
45) 1,2-Dichloropropane	7.421	63	62399	57.950	ug/l		98
46) Dibromomethane	7.574	93	46224	60.735	ug/l		97
47) Bromodichloromethane	7.812	83	92342	61.857	ug/l		98
48) Methyl methacrylate	7.690	41	79394	62.623	ug/l		92
49) 1,4-Dioxane	7.659	88	24856	929.442	ug/l		93
51) 4-Methyl-2-Pentanone	8.568	43	501625	295.634	ug/l		99
52) Toluene	8.714	92	148581	60.468	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	84155	67.431	ug/l		94
54) cis-1,3-Dichloropropene	8.360	75	96166	66.080	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	57660	57.001	ug/l		97
56) Ethyl methacrylate	9.110	69	95827	62.321	ug/l		92
57) 1,3-Dichloropropane	9.305	76	102439	58.517	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	232271	309.665	ug/l		99
59) 2-Hexanone	9.427	43	368887	300.058	ug/l		98
60) Dibromochloromethane	9.519	129	65450	61.881	ug/l		98
61) 1,2-Dibromoethane	9.604	107	59785	59.203	ug/l		99
64) Tetrachloroethene	9.269	164	50166	61.975	ug/l		94
65) Chlorobenzene	10.073	112	156914	58.675	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	53138	59.666	ug/l		99
67) Ethyl Benzene	10.189	91	286839	61.556	ug/l		99
68) m/p-Xylenes	10.299	106	210779	123.563	ug/l		95
69) o-Xylene	10.640	106	101992	59.282	ug/l		95
70) Styrene	10.653	104	174051	62.523	ug/l		98
71) Bromoform	10.799	173	40682	60.576	ug/l	#	98
73) Isopropylbenzene	10.957	105	275801	61.143	ug/l		99
74) N-amyl acetate	10.842	43	129374	61.124	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	87921	53.116	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	96034	71.396	ug/l		85
77) Bromobenzene	11.195	156	59754	56.145	ug/l		94
78) n-propylbenzene	11.299	91	324320	63.648	ug/l		99
79) 2-Chlorotoluene	11.360	91	190484	58.698	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	224971	61.682	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	23459	59.684	ug/l		86
82) 4-Chlorotoluene	11.451	91	218741	61.848	ug/l		97
83) tert-Butylbenzene	11.713	119	222490	59.370	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	224111	61.068	ug/l		98
85) sec-Butylbenzene	11.890	105	281972	62.814	ug/l		99
86) p-Isopropyltoluene	12.006	119	230417	63.515	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	108247	57.014	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	108707	56.594	ug/l		98
89) n-Butylbenzene	12.329	91	208754	66.812	ug/l		99
90) Hexachloroethane	12.536	117	39837	60.711	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	104966	55.113	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19035	59.027	ug/l		92
93) 1,2,4-Trichlorobenzene	13.585	180	63082	58.168	ug/l		99
94) Hexachlorobutadiene	13.725	225	27031	60.796	ug/l		99
95) Naphthalene	13.774	128	228638	54.873	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	63287	55.317	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

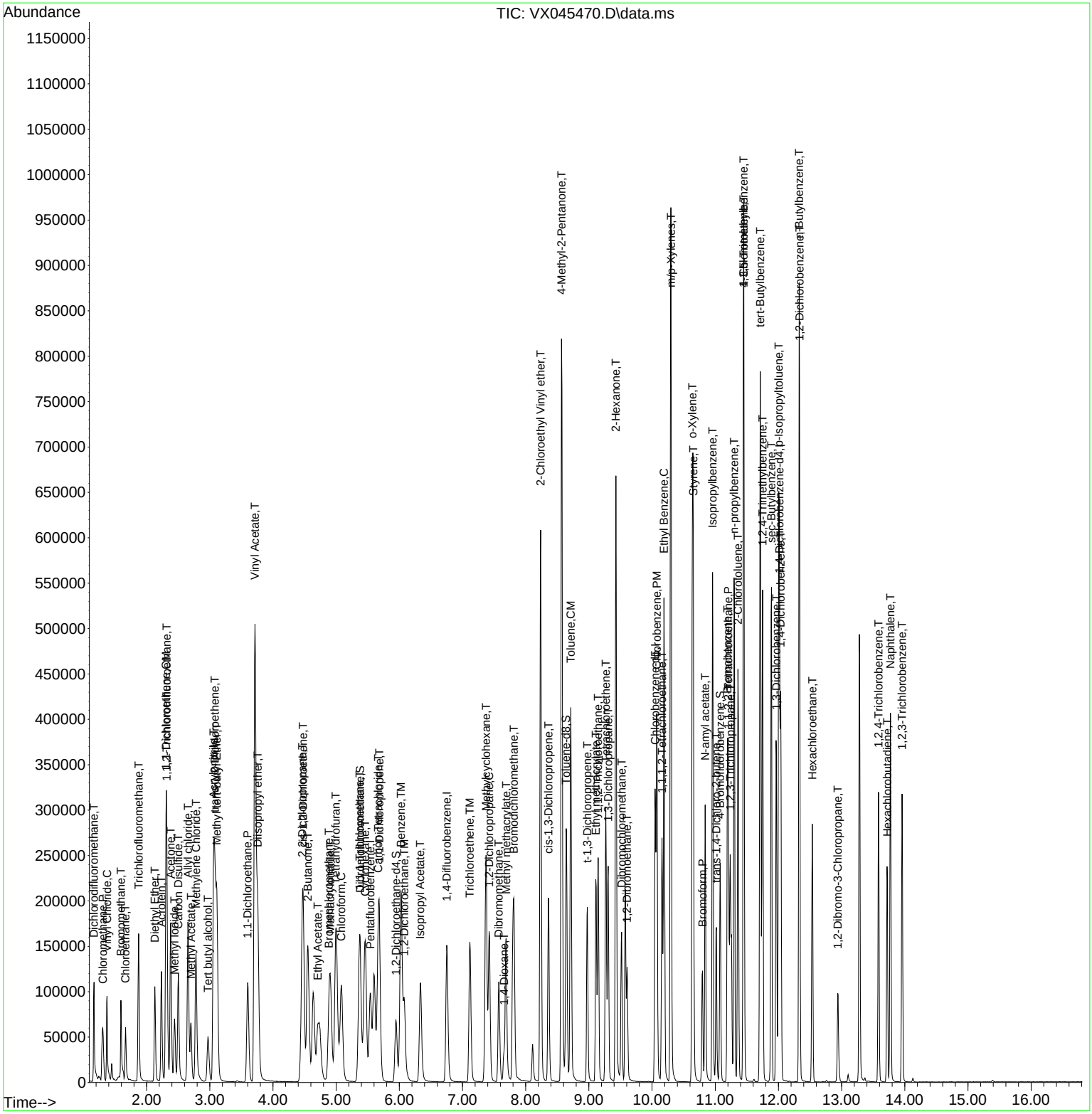
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

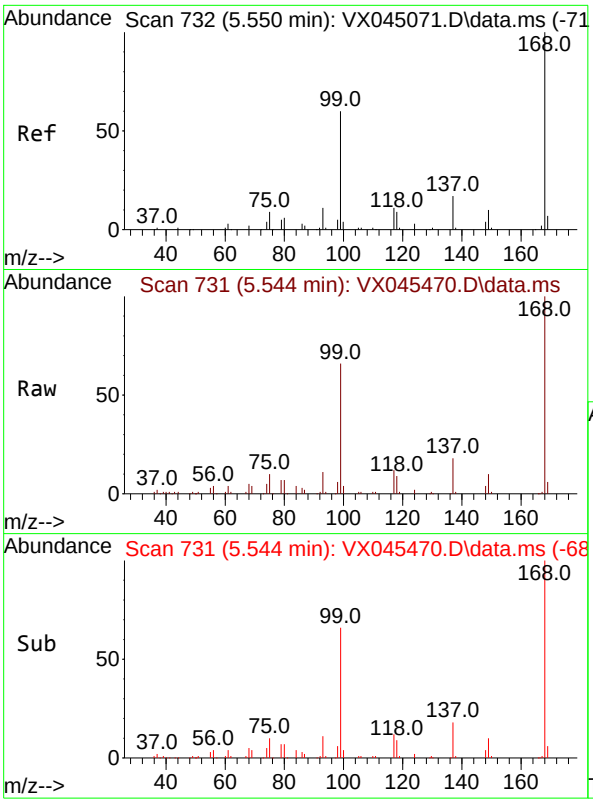
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032625\
Data File : VX045470.D
Acq On : 26 Mar 2025 15:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Mar 27 01:41:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



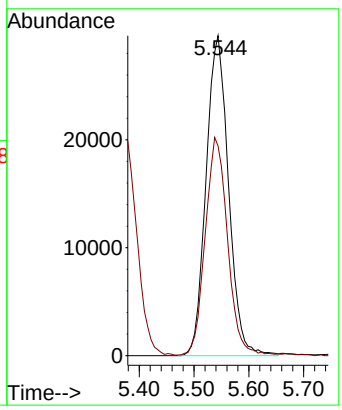


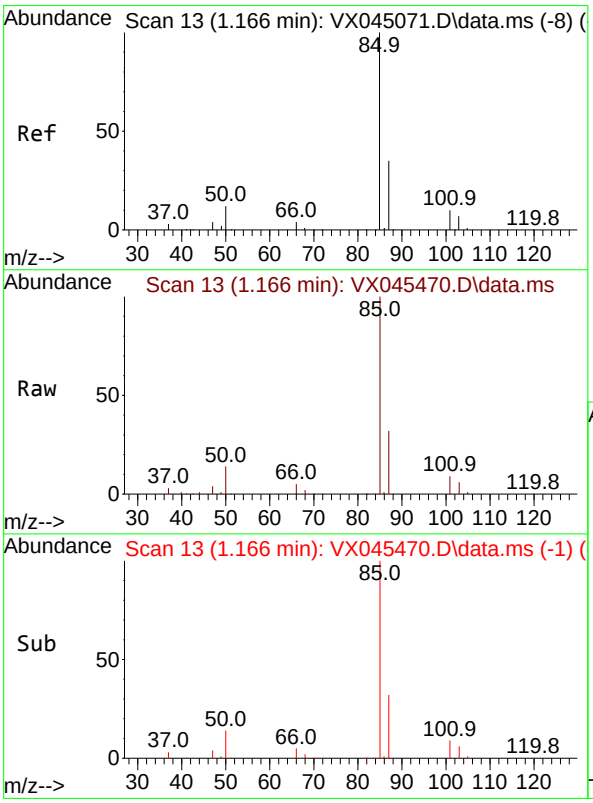
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 84345

Ion	Ratio	Lower	Upper
168	100		
99	65.3	48.2	72.4

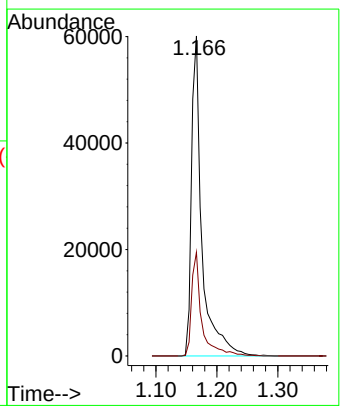


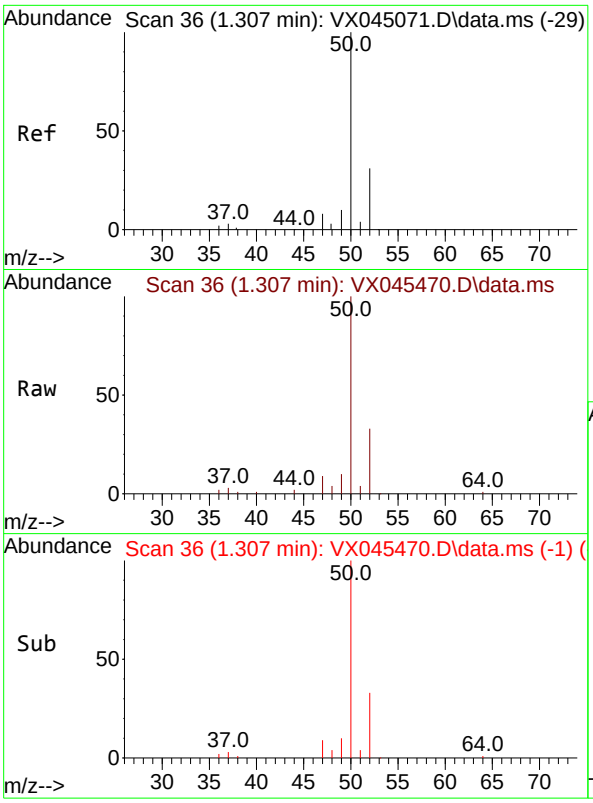


#2
Dichlorodifluoromethane
Concen: 67.203 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 85 Resp: 71350

Ion	Ratio	Lower	Upper
85	100		
87	32.4	17.4	52.3



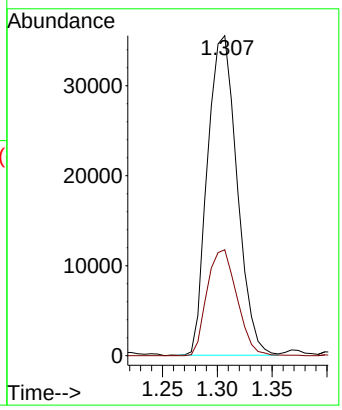


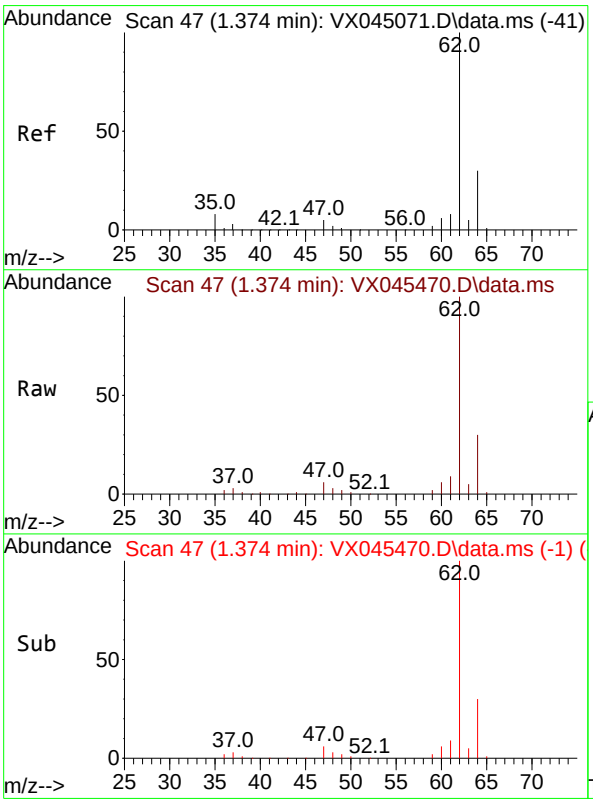
#3
Chloromethane
Concen: 51.295 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 66647

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.0	37.4

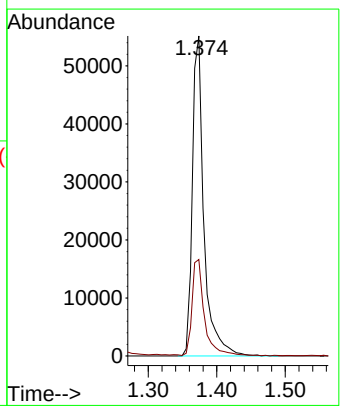


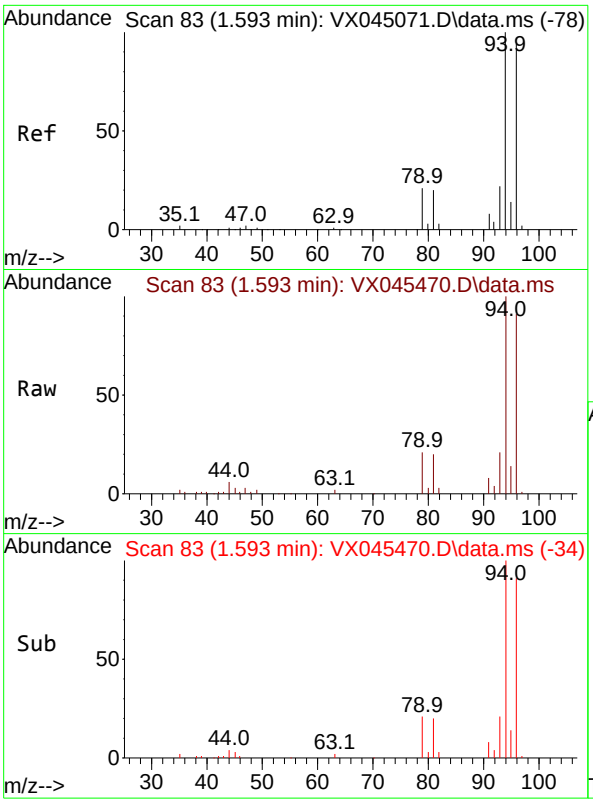


#4
Vinyl Chloride
Concen: 50.085 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 62 Resp: 64556

Ion	Ratio	Lower	Upper
62	100		
64	30.0	24.3	36.5



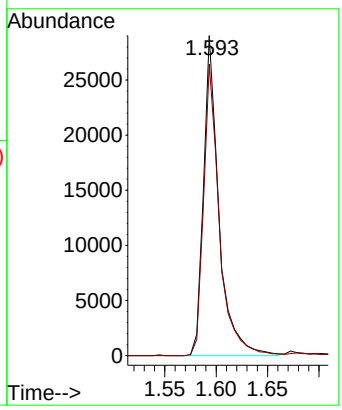


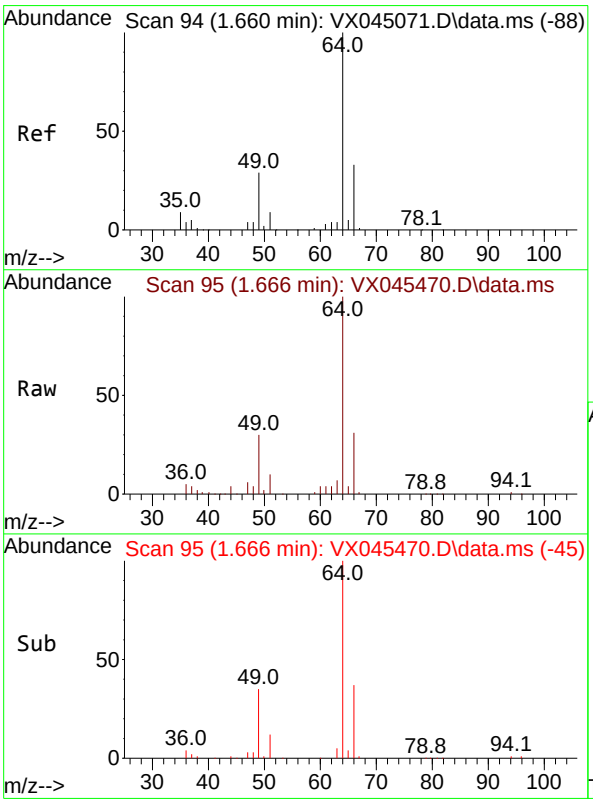
#5
Bromomethane
Concen: 59.795 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 30298

Ion	Ratio	Lower	Upper
94	100		
96	91.0	75.0	112.4

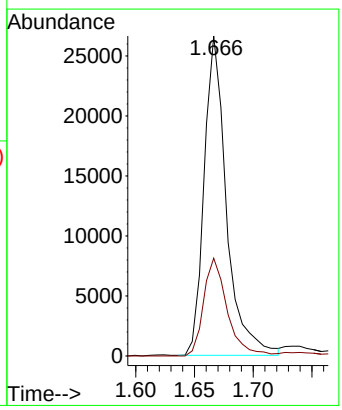


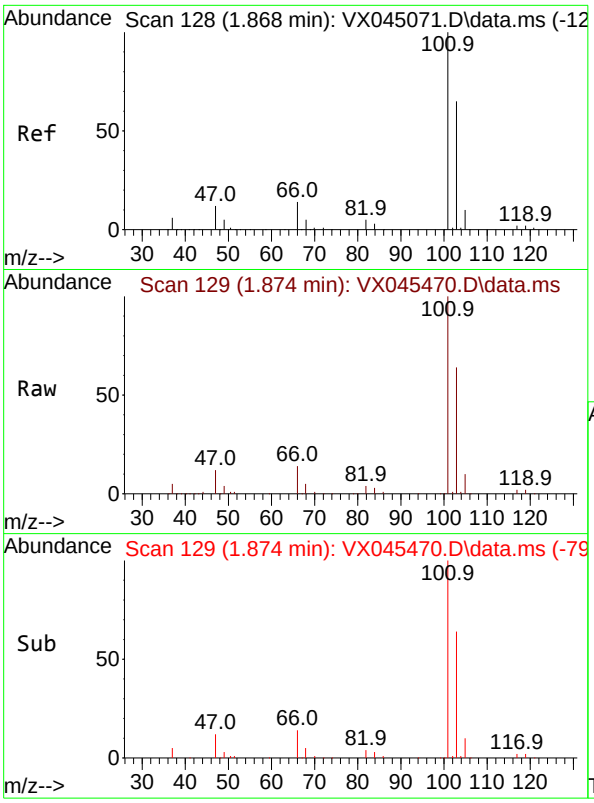


#6
Chloroethane
Concen: 59.207 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 64 Resp: 35200

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.7	40.1



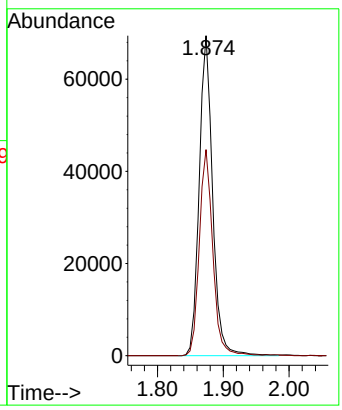


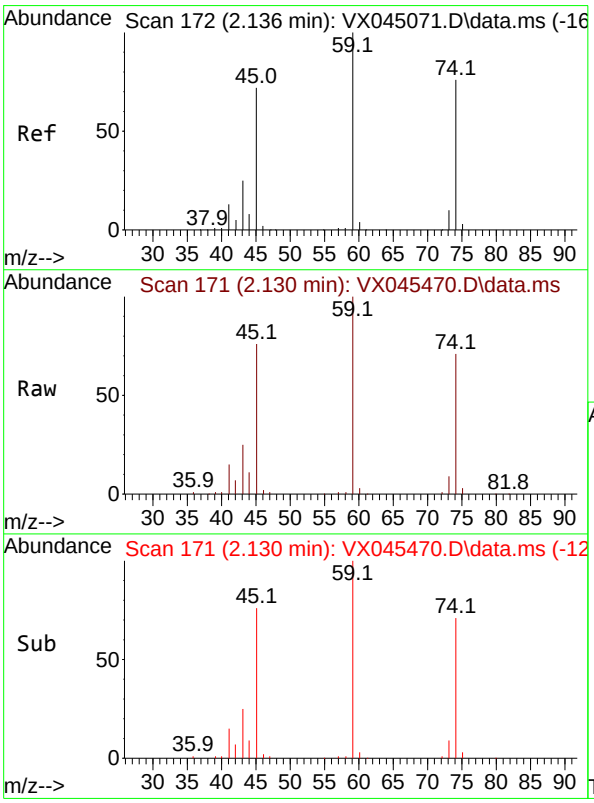
#7
Trichlorofluoromethane
Concen: 57.834 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 98682

Ion	Ratio	Lower	Upper
101	100		
103	64.4	52.1	78.1

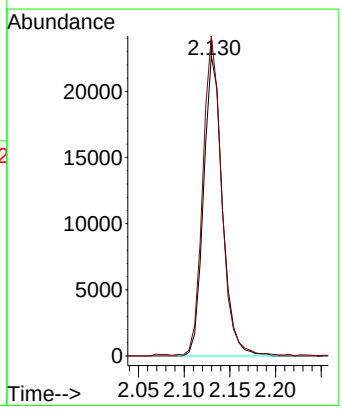


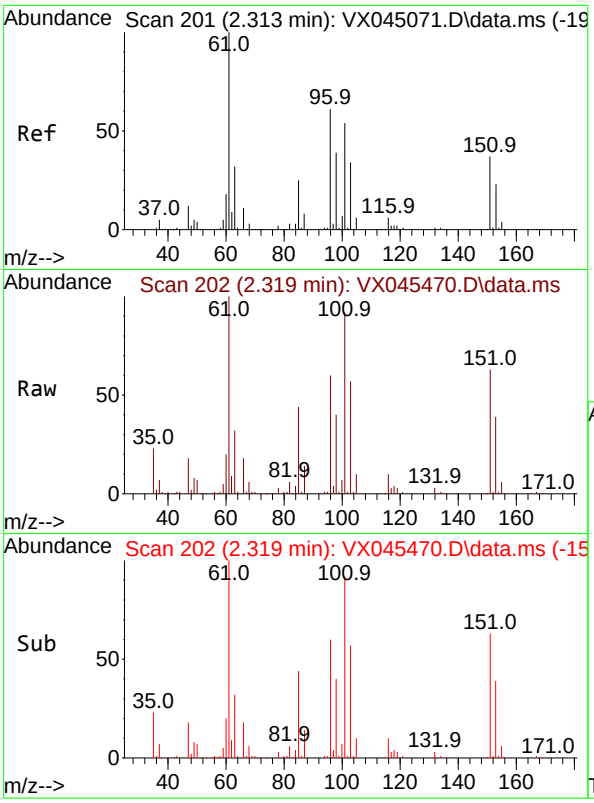


#8
Diethyl Ether
Concen: 48.523 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 74 Resp: 32384

Ion	Ratio	Lower	Upper
74	100		
45	107.3	51.5	154.5



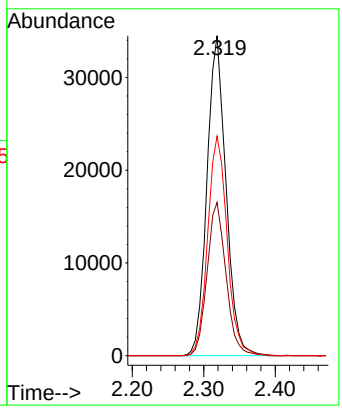


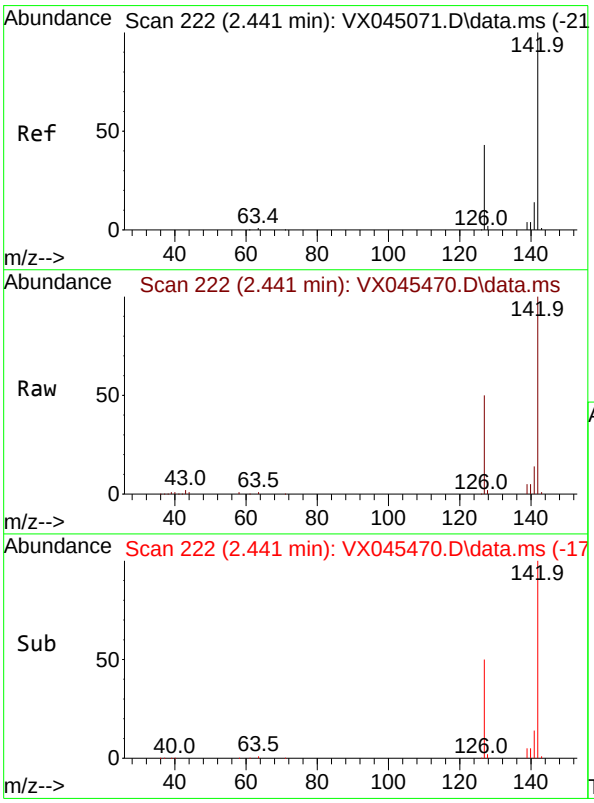
#9
1,1,2-Trichlorotrifluoroethane
Concen: 64.996 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 63716

Ion	Ratio	Lower	Upper
101	100		
85	47.6	36.2	54.4
151	70.2	56.4	84.6

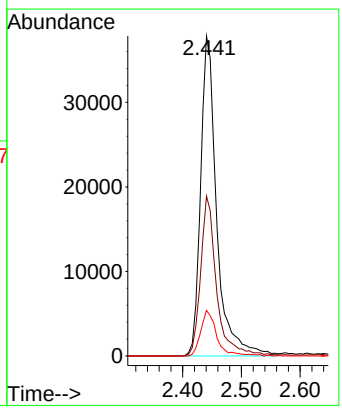


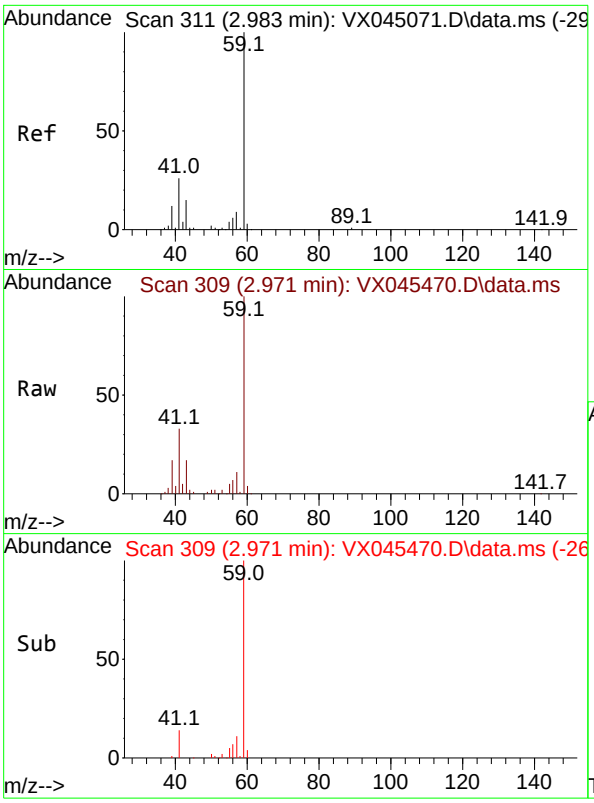


#10
Methyl Iodide
Concen: 58.957 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:142 Resp: 72226

Ion	Ratio	Lower	Upper
142	100		
127	49.6	35.4	53.2
141	14.2	11.6	17.4



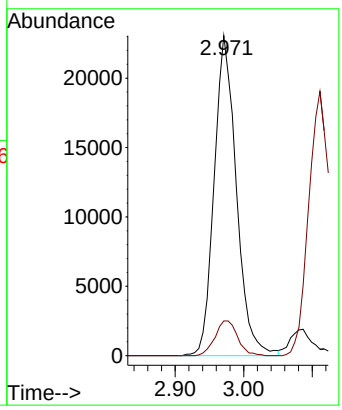


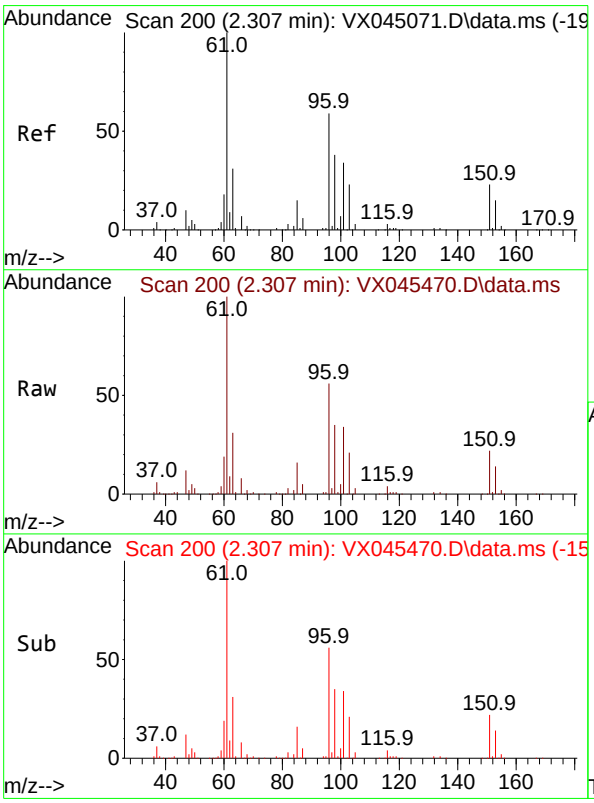
#11
Tert butyl alcohol
Concen: 204.206 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 51894

Ion	Ratio	Lower	Upper
59	100		
57	11.1	7.8	11.8

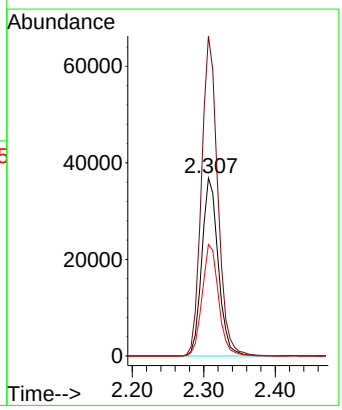


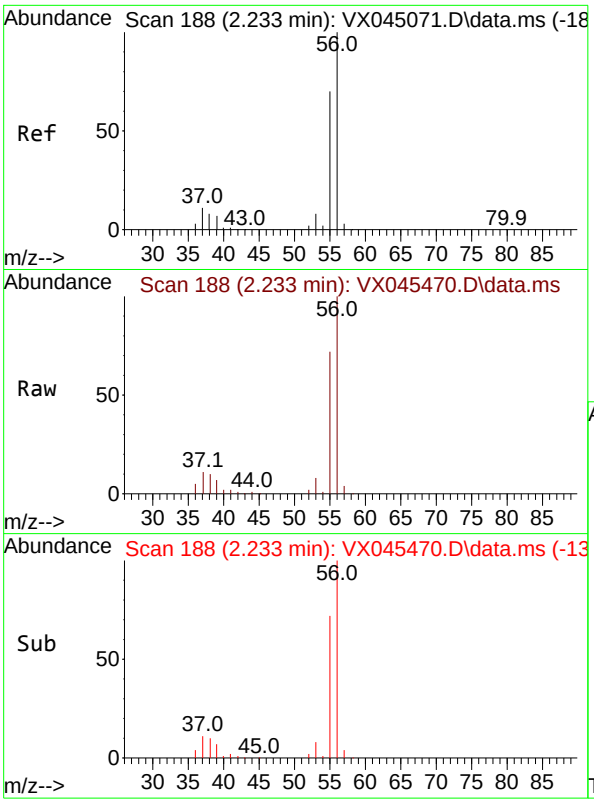


#12
1,1-Dichloroethene
Concen: 56.703 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 96 Resp: 58768

Ion	Ratio	Lower	Upper
96	100		
61	179.8	134.6	202.0
98	62.7	51.0	76.6



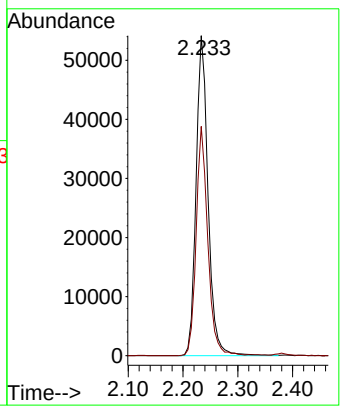


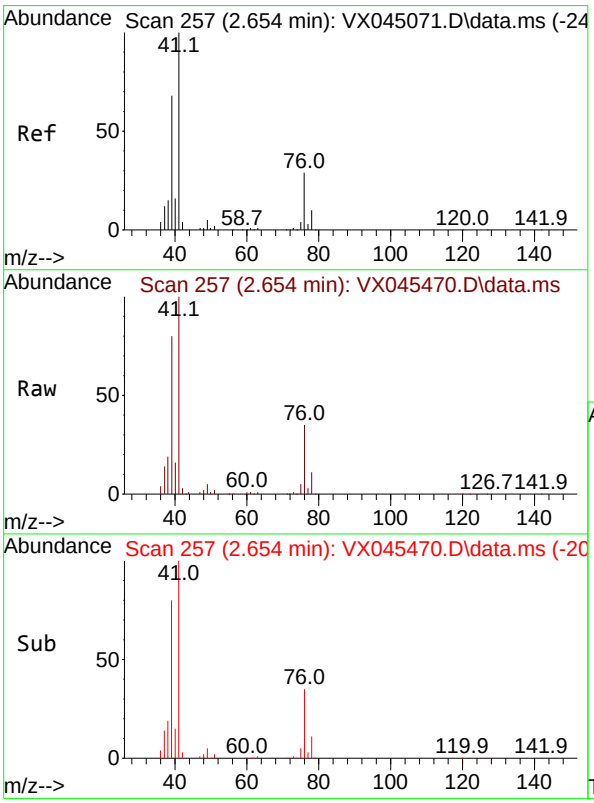
#13
Acrolein
Concen: 280.996 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 82546

Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.2	84.4

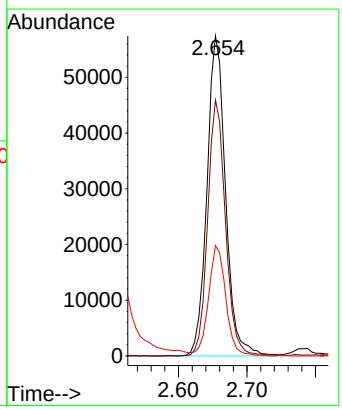


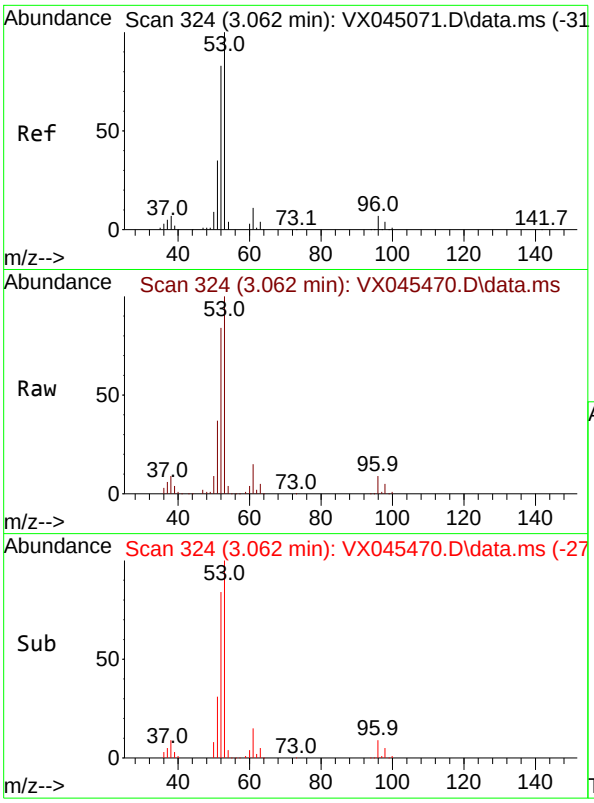


#14
Allyl chloride
Concen: 58.910 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 41 Resp: 108681

Ion	Ratio	Lower	Upper
41	100		
39	76.4	53.8	80.8
76	32.1	25.2	37.8



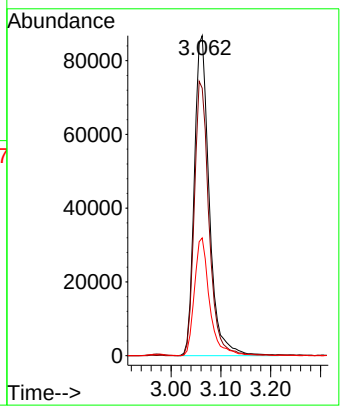


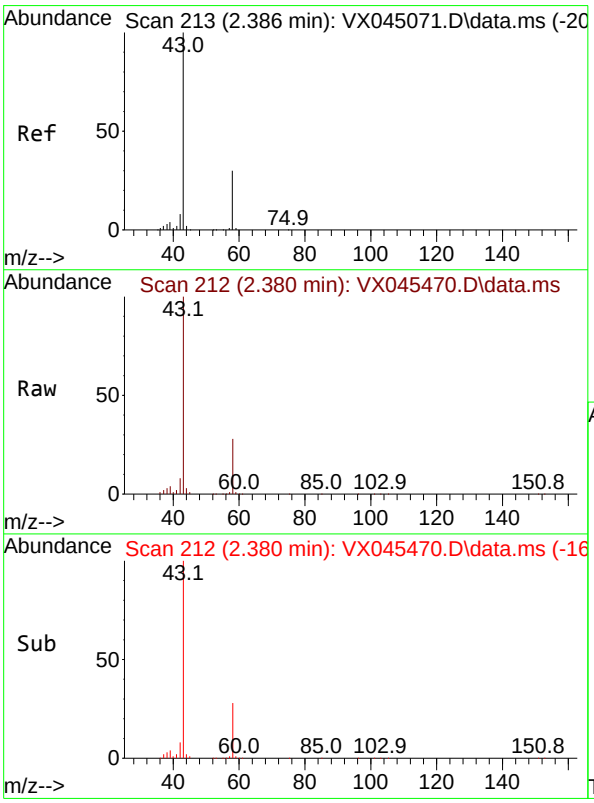
#15
Acrylonitrile
Concen: 264.982 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 180476

Ion	Ratio	Lower	Upper
53	100		
52	84.4	66.2	99.2
51	37.5	29.0	43.4

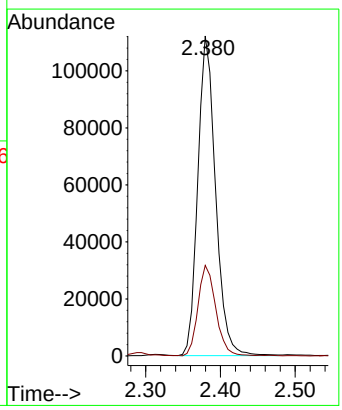


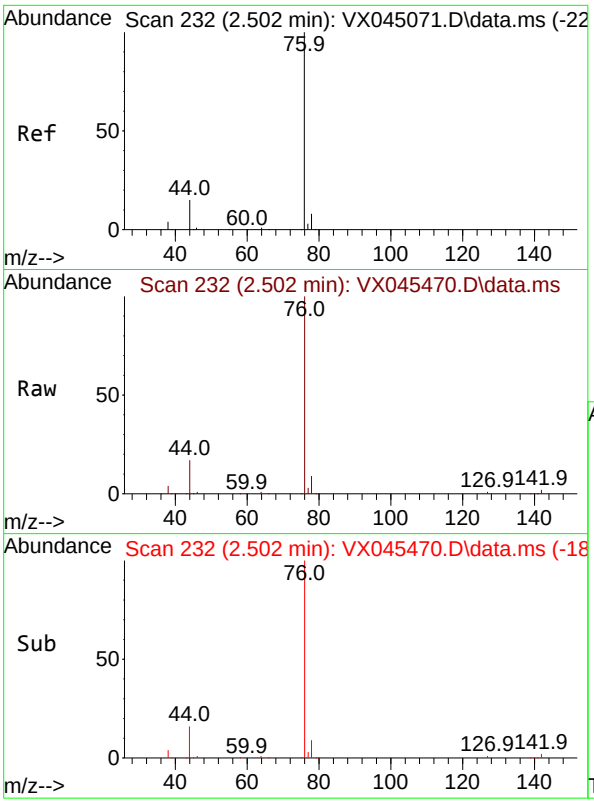


#16
Acetone
Concen: 296.871 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 184795

Ion	Ratio	Lower	Upper
43	100		
58	28.2	24.2	36.4



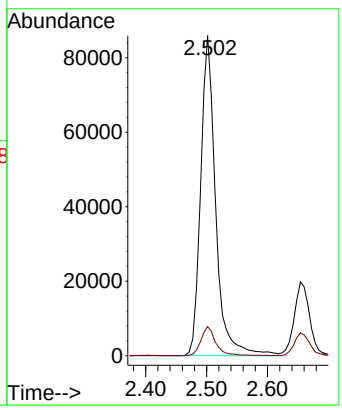


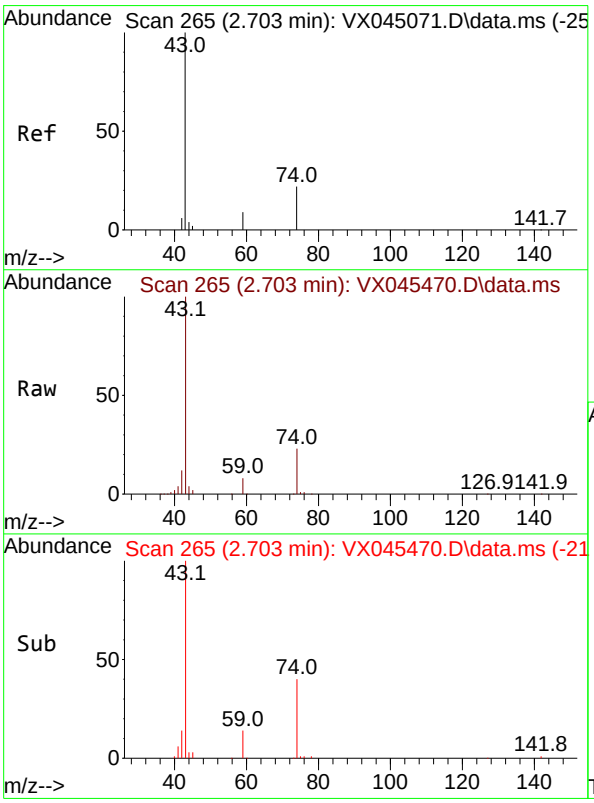
#17
Carbon Disulfide
Concen: 53.198 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 146850

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.6	9.8

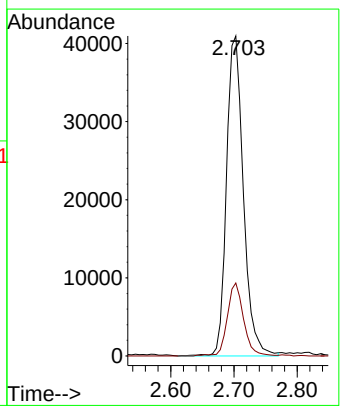


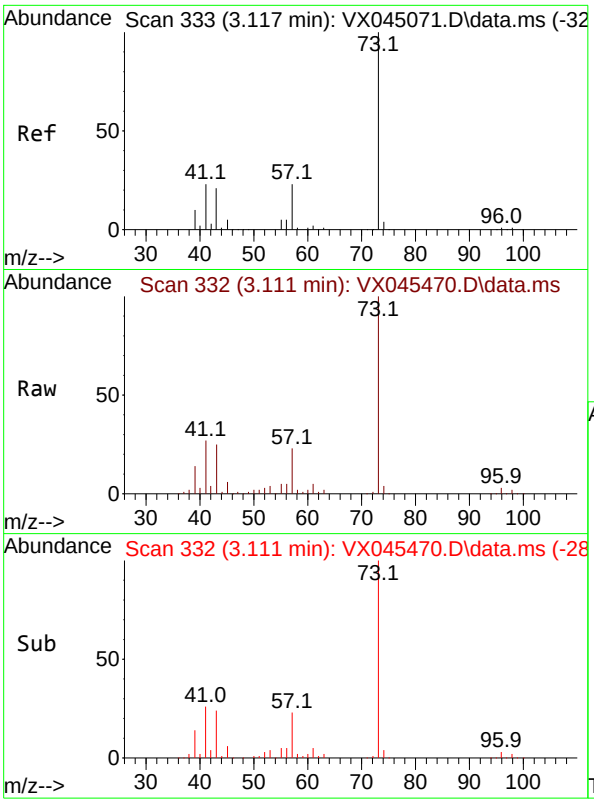


#18
Methyl Acetate
Concen: 50.607 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 75783

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



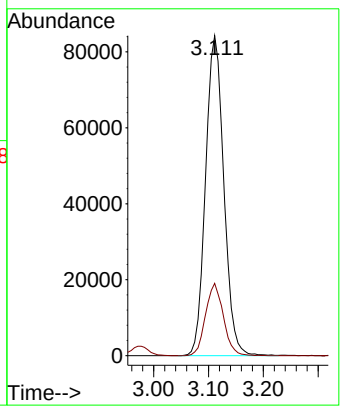


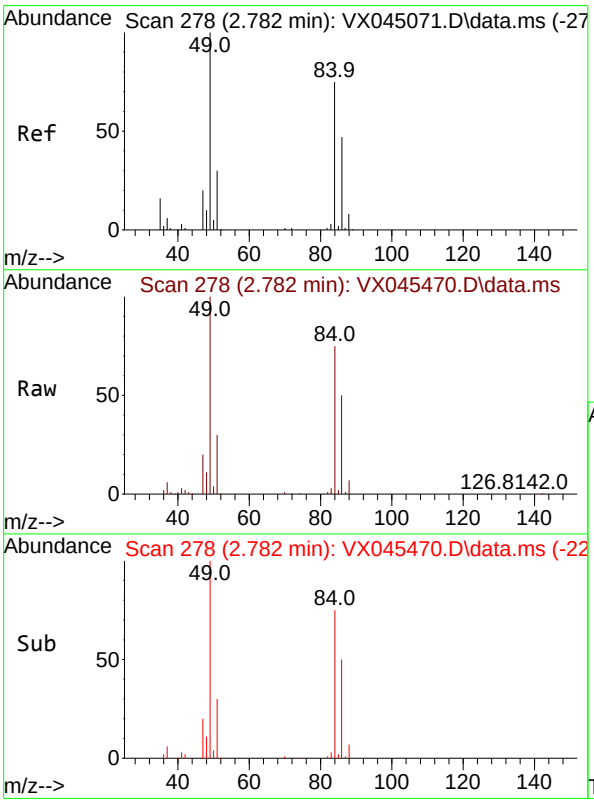
#19
Methyl tert-butyl Ether
Concen: 55.989 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 194684

Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.5	27.7

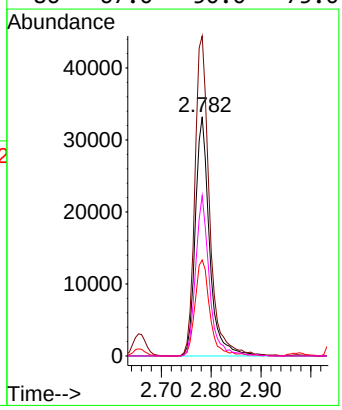


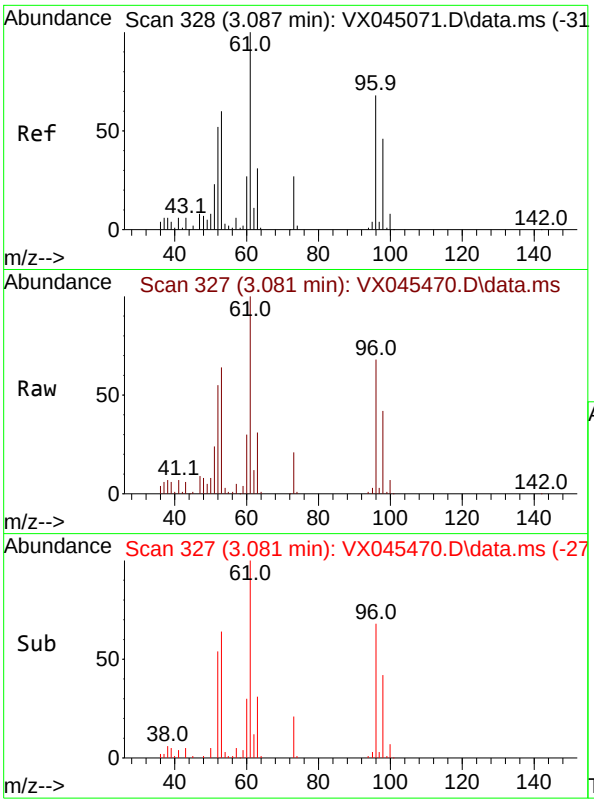


#20
Methylene Chloride
Concen: 53.346 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 84 Resp: 65778

Ion	Ratio	Lower	Upper
84	100		
49	133.8	106.5	159.7
51	40.1	32.1	48.1
86	67.0	50.0	75.0



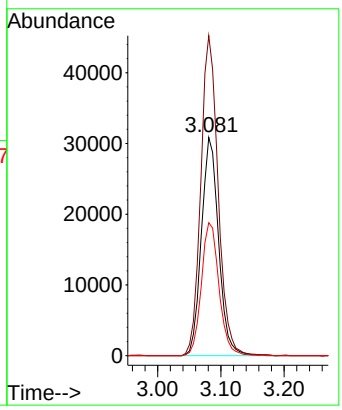


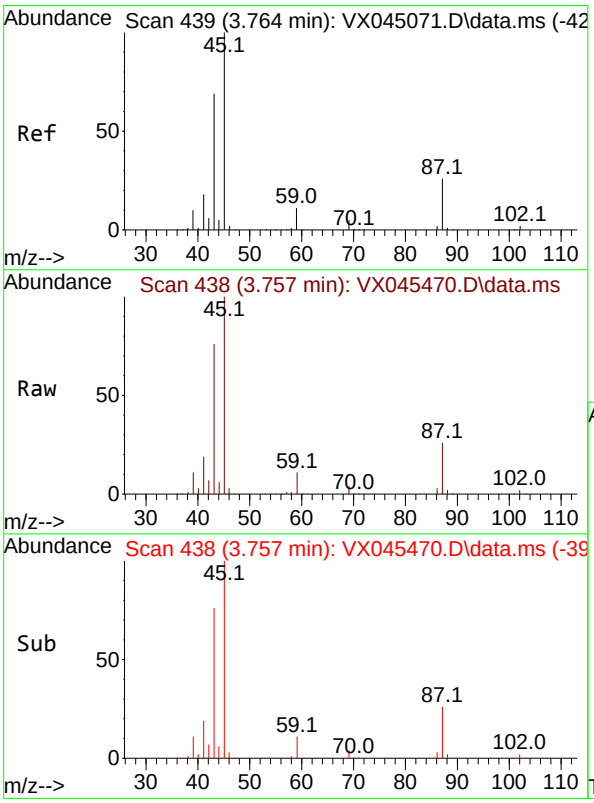
#21
trans-1,2-Dichloroethene
Concen: 57.147 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 58514

Ion	Ratio	Lower	Upper
96	100		
61	146.6	117.0	175.4
98	61.0	53.4	80.2

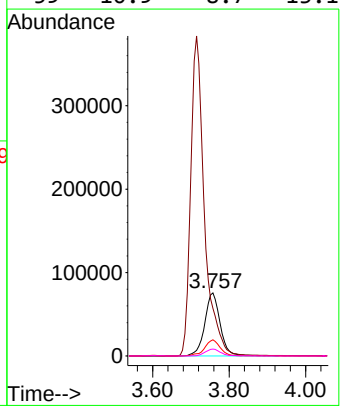


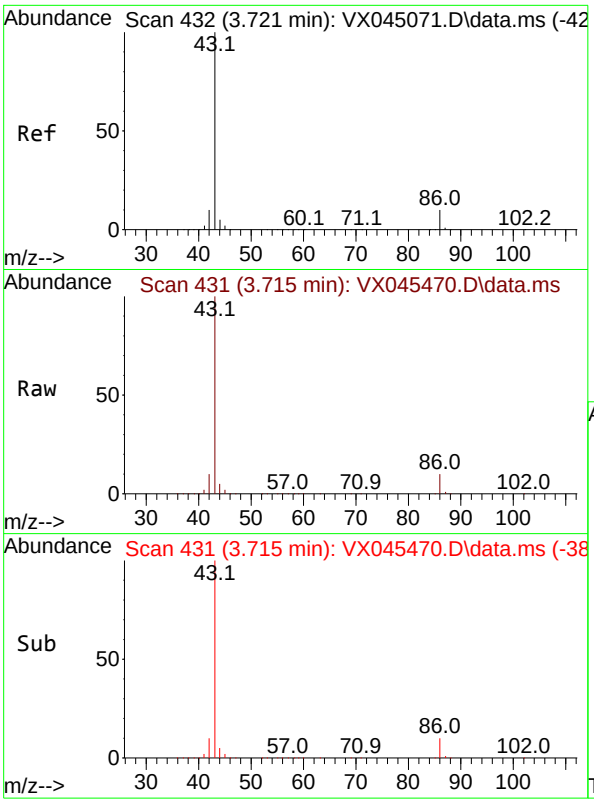


#22
Diisopropyl ether
Concen: 56.422 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 45 Resp: 211696

Ion	Ratio	Lower	Upper
45	100		
43	75.4	54.9	82.3
87	25.6	21.0	31.4
59	10.9	8.7	13.1



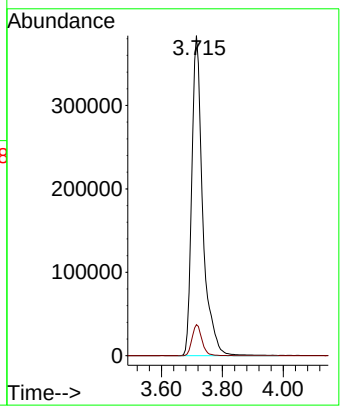


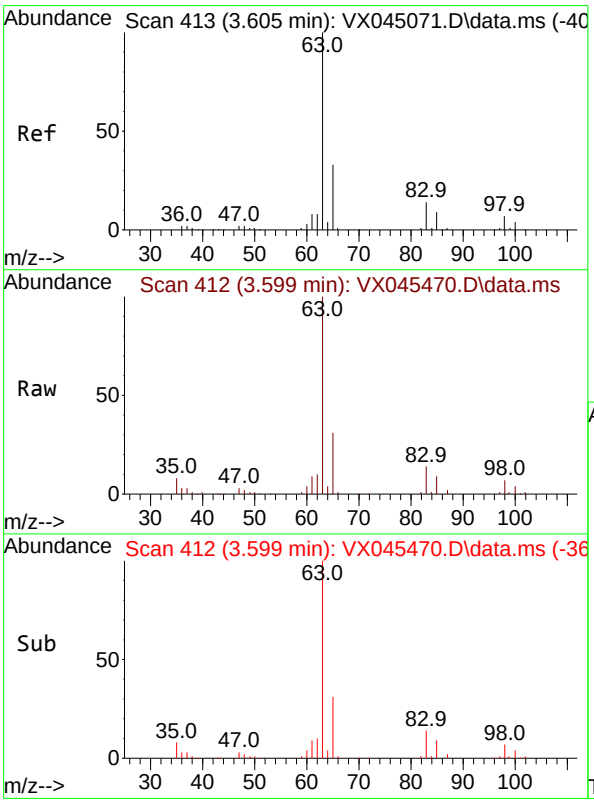
#23
Vinyl Acetate
Concen: 306.481 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 959622

Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.1	12.1

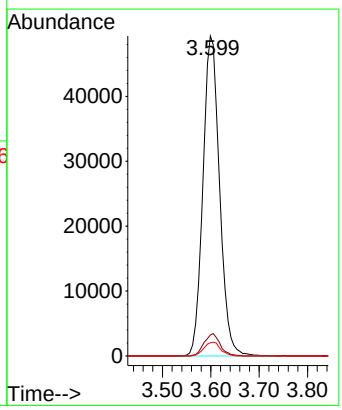


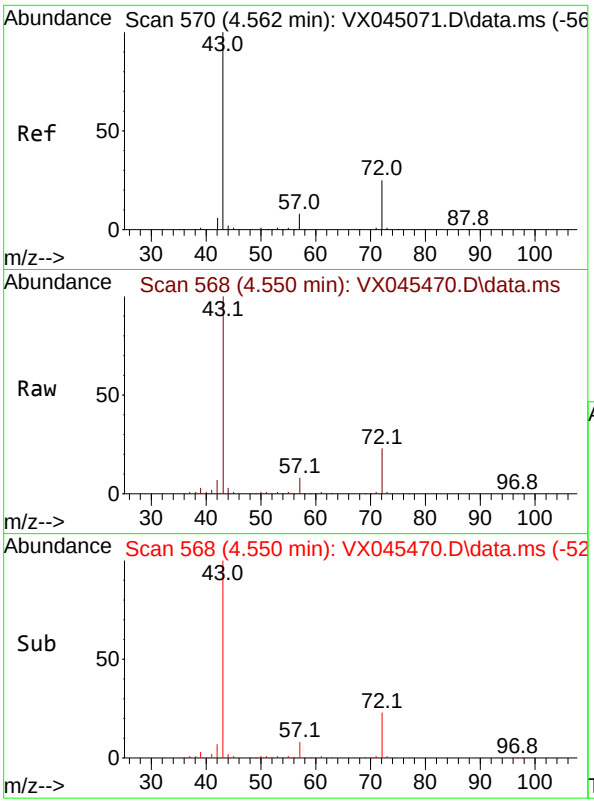


#24
1,1-Dichloroethane
Concen: 55.973 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 63 Resp: 117697

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.4	10.2
100	4.1	2.1	6.5



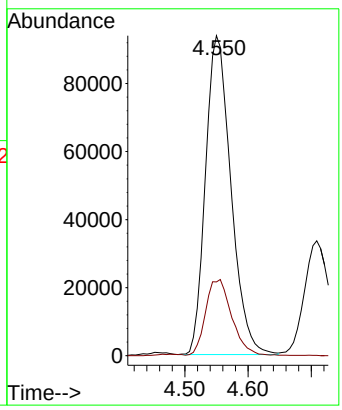


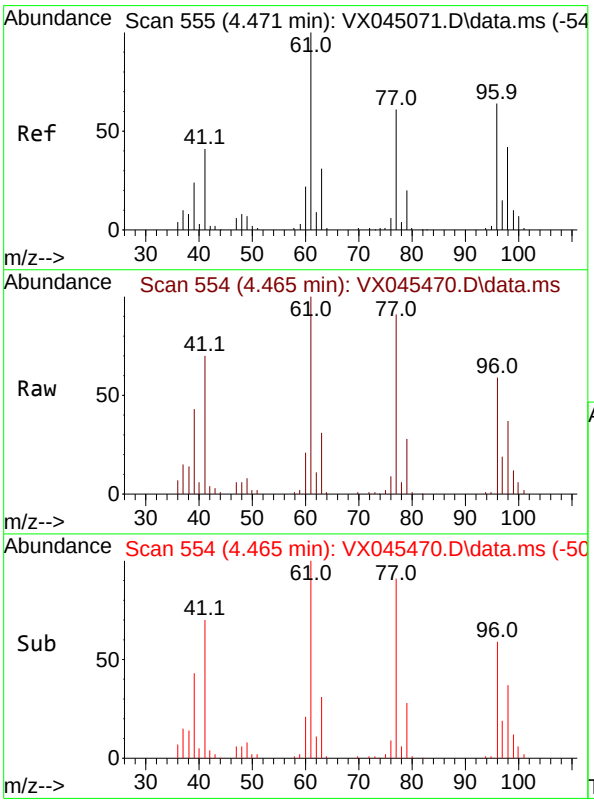
#25
2-Butanone
Concen: 279.291 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 261690

Ion	Ratio	Lower	Upper
43	100		
72	23.0	20.0	30.0

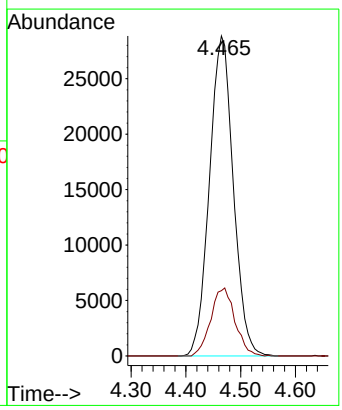


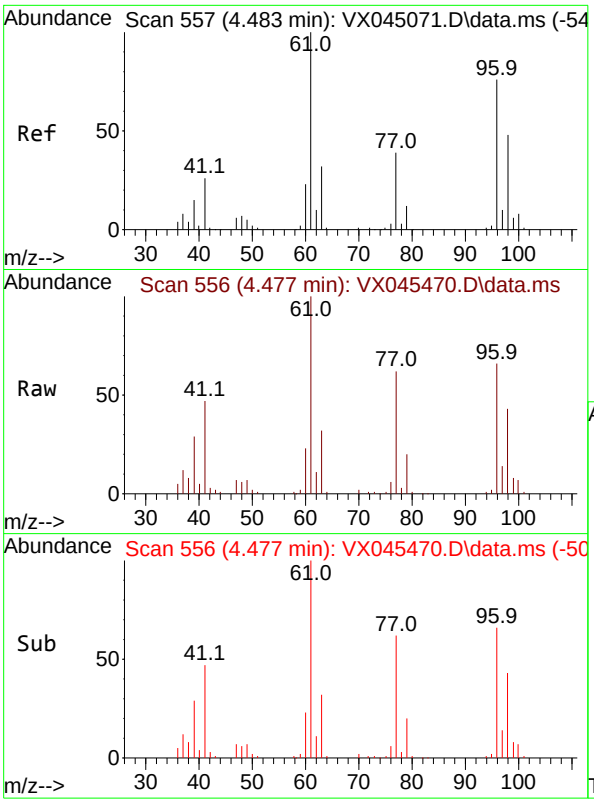


#26
2,2-Dichloropropane
Concen: 88.603 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 77 Resp: 87389

Ion	Ratio	Lower	Upper
77	100		
97	21.5	12.4	37.0



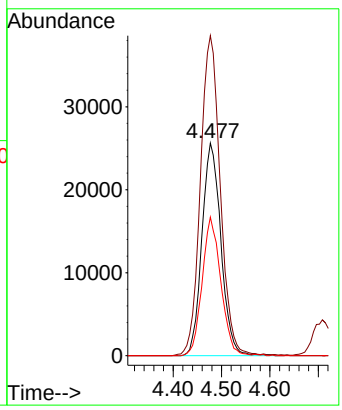


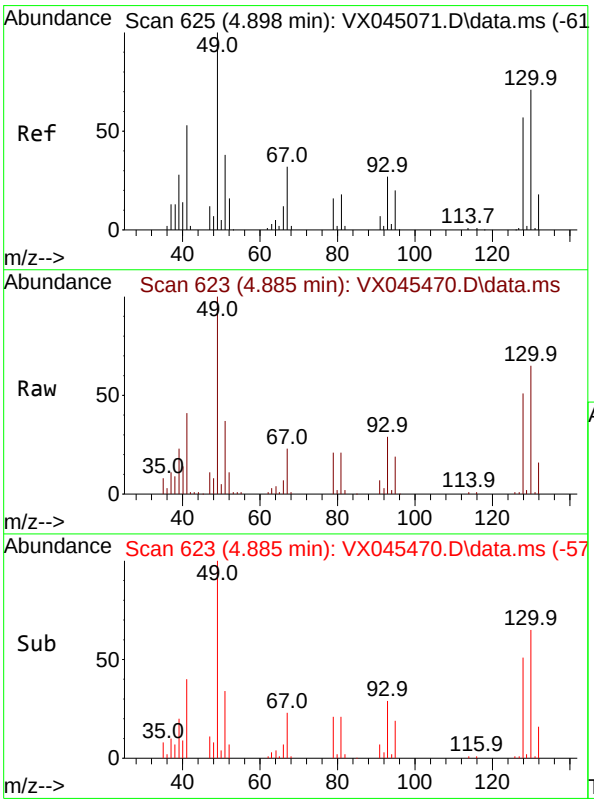
#27
cis-1,2-Dichloroethene
Concen: 55.363 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 69978

Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	283.2
98	63.8	0.0	128.0

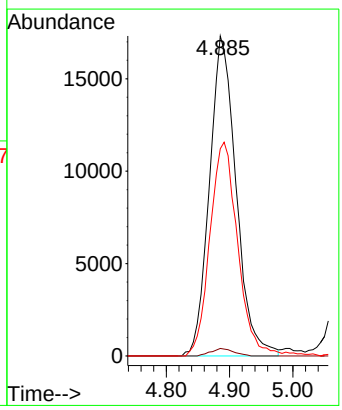


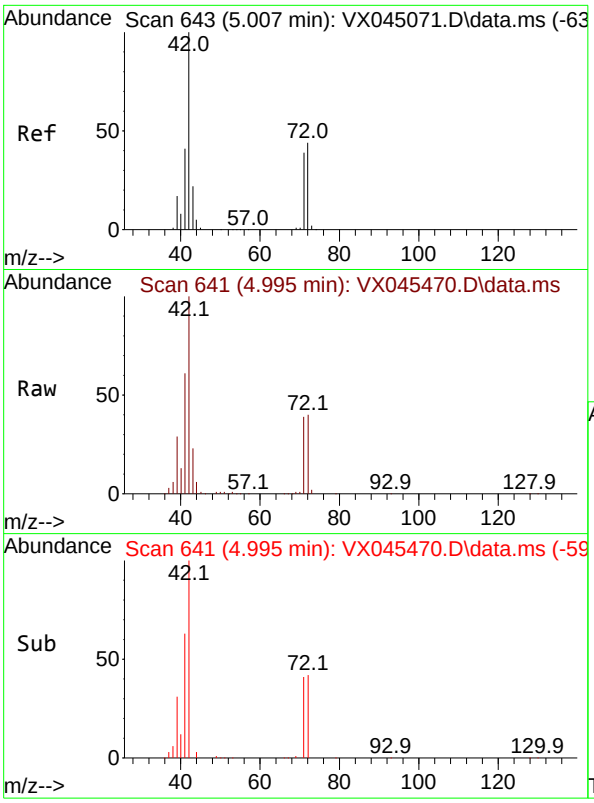


#28
Bromochloromethane
Concen: 50.597 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 49 Resp: 50712

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	69.2	56.1	84.1



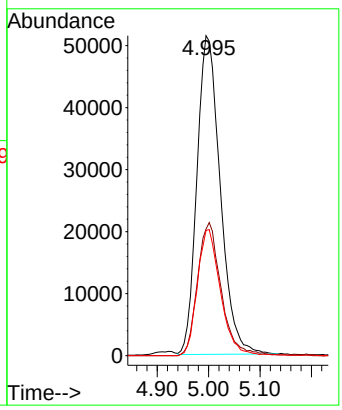


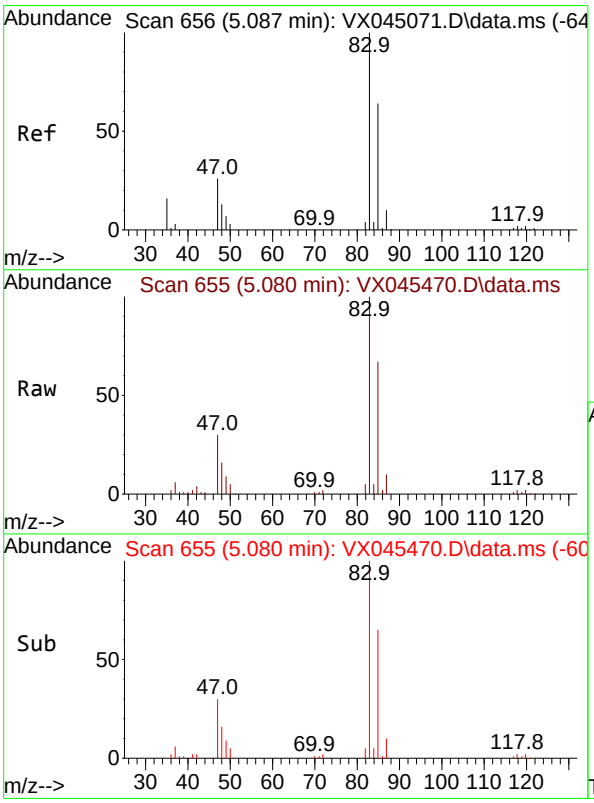
#29
Tetrahydrofuran
Concen: 257.649 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 162120

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.1	51.1
71	39.4	31.4	47.0

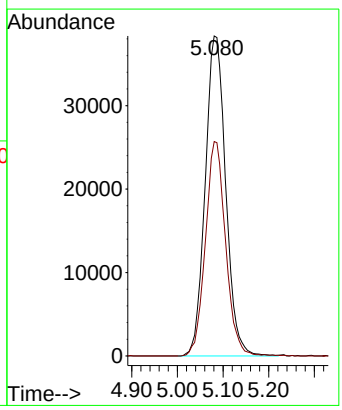


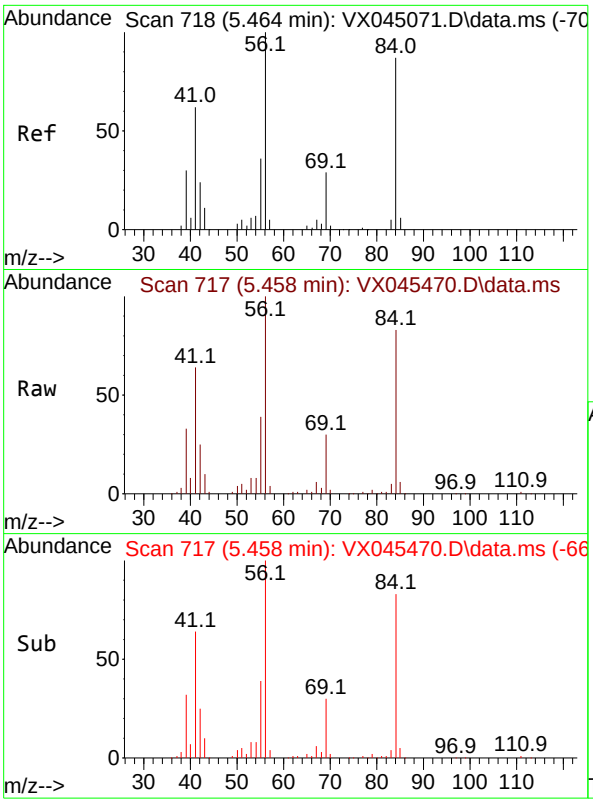


#30
Chloroform
Concen: 57.224 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 83 Resp: 119560

Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.4	77.2



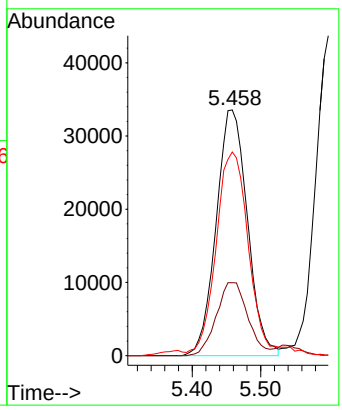


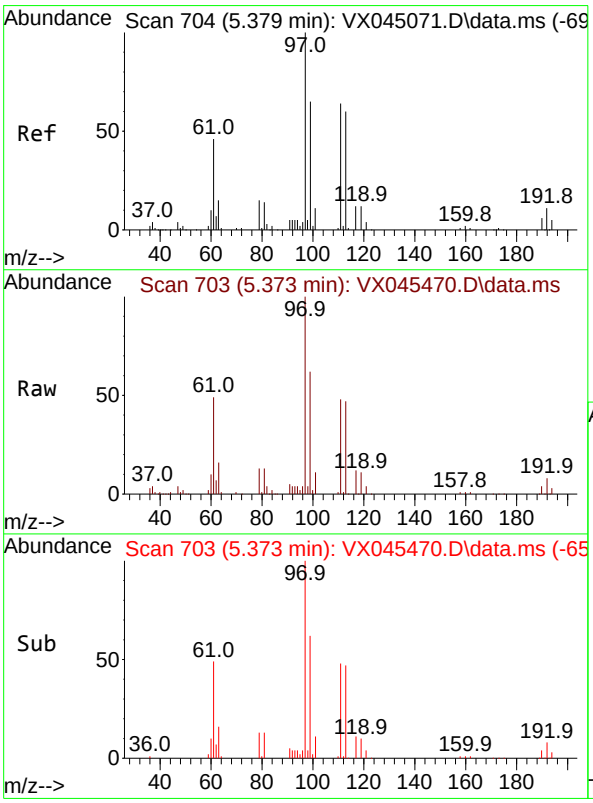
#31
Cyclohexane
Concen: 58.253 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 106330

Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.4	35.2
84	80.7	69.4	104.2

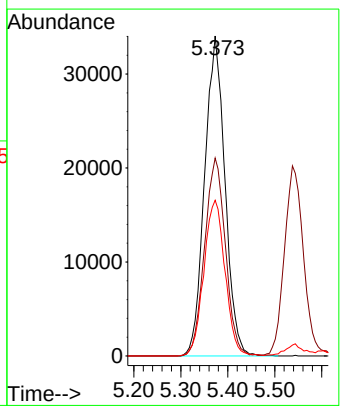


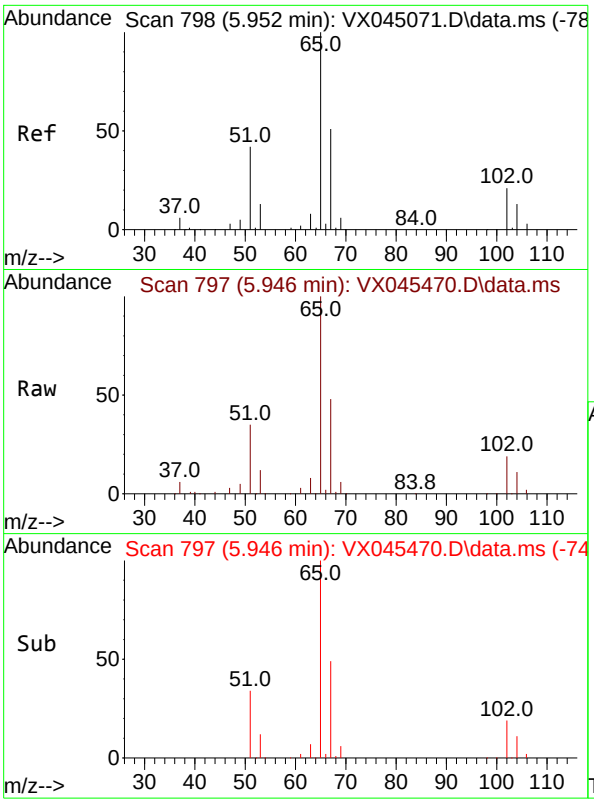


#32
1,1,1-Trichloroethane
Concen: 60.650 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 97 Resp: 102345

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.6	77.4
61	50.7	38.4	57.6



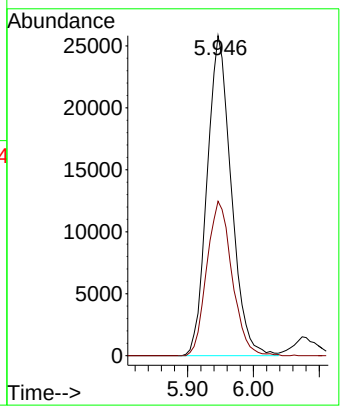


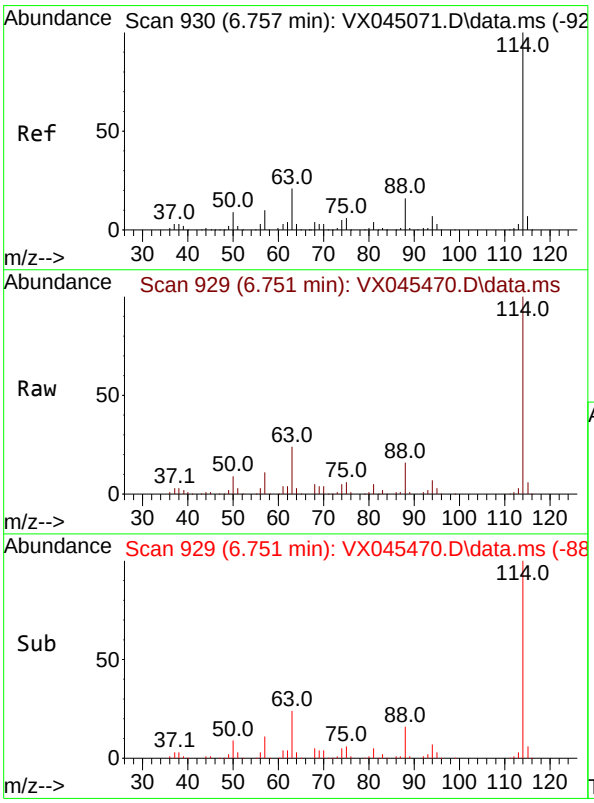
#33
1,2-Dichloroethane-d4
Concen: 49.135 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 65921

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2

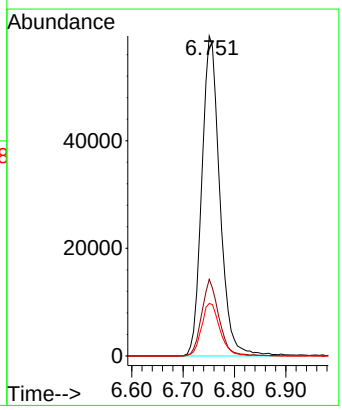


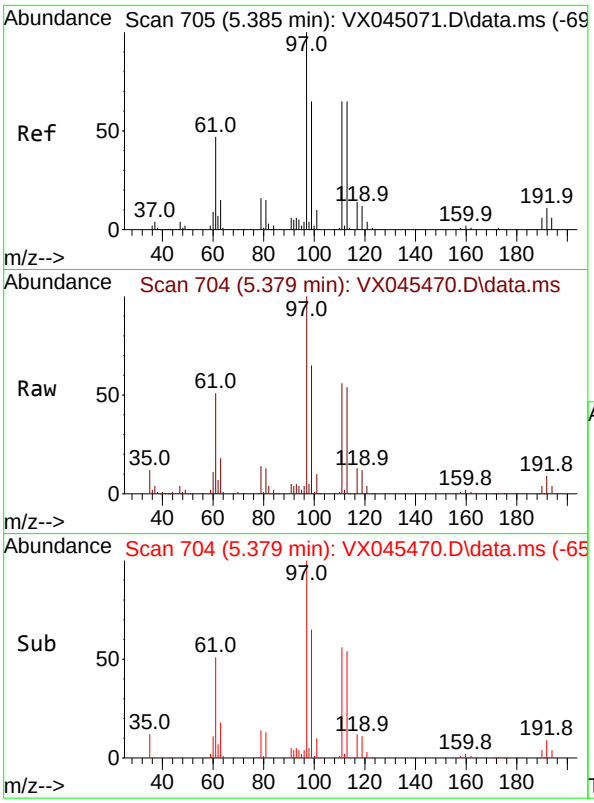


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:114 Resp: 144626

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	41.8
88	16.4	0.0	32.8



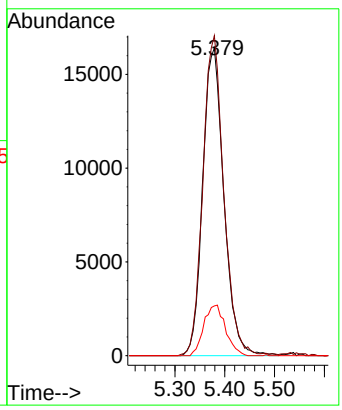


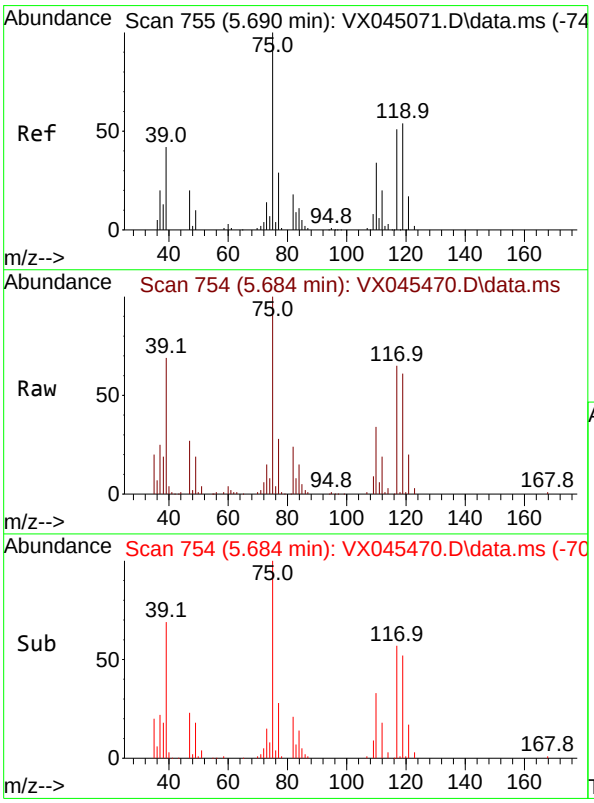
#35
Dibromofluoromethane
Concen: 50.029 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 48382

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	16.9	14.3	21.5

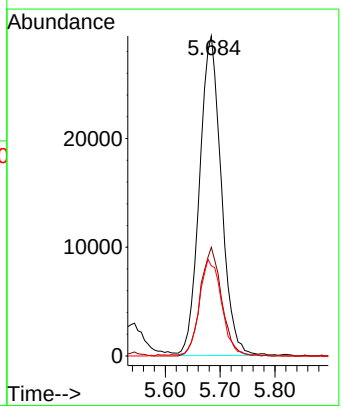


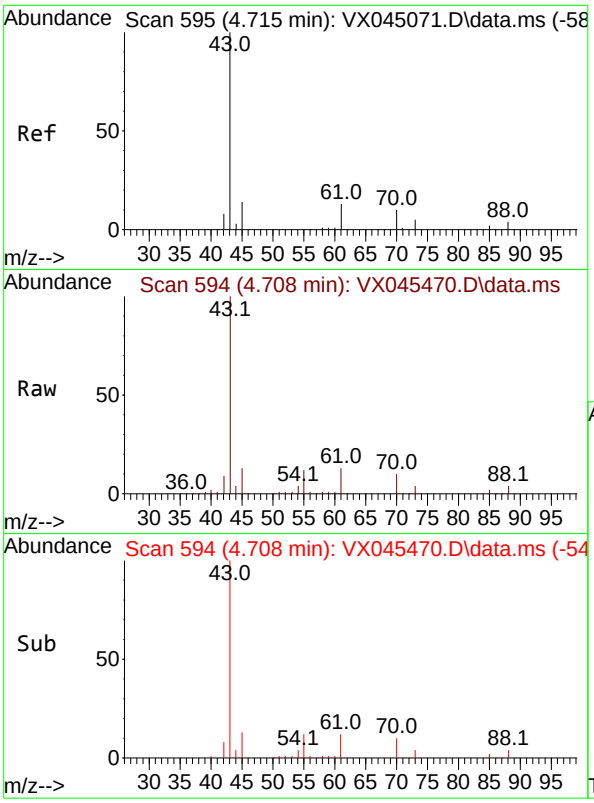


#36
1,1-Dichloropropene
Concen: 60.949 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 80834

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.9	50.6
77	30.2	24.5	36.7



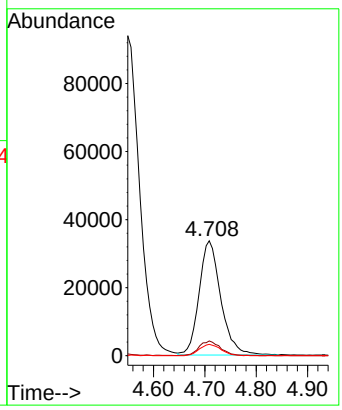


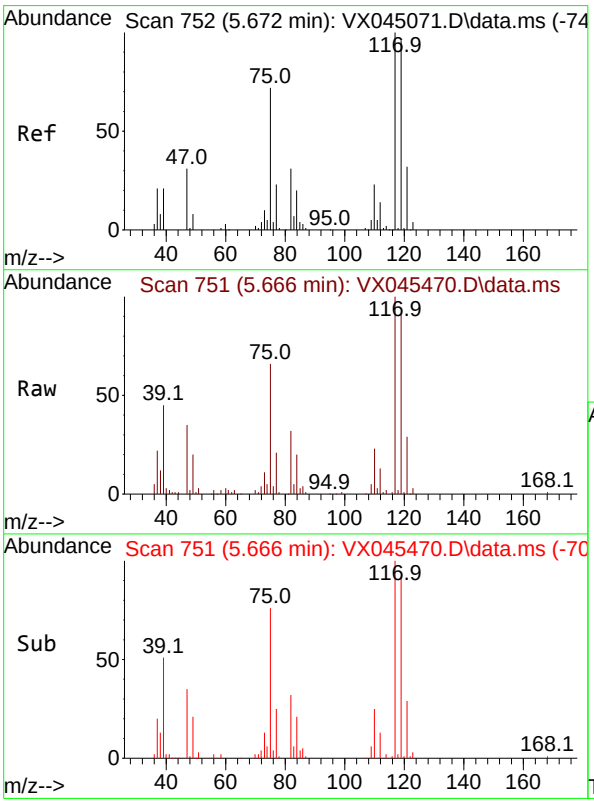
#37
Ethyl Acetate
Concen: 57.775 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 98735

Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.8	16.2
70	9.7	7.7	11.5

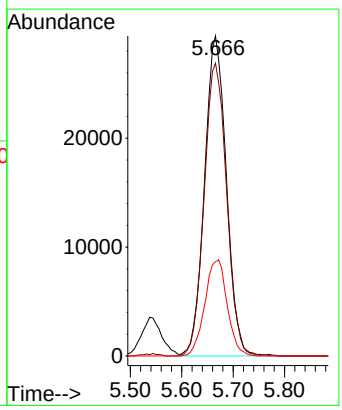


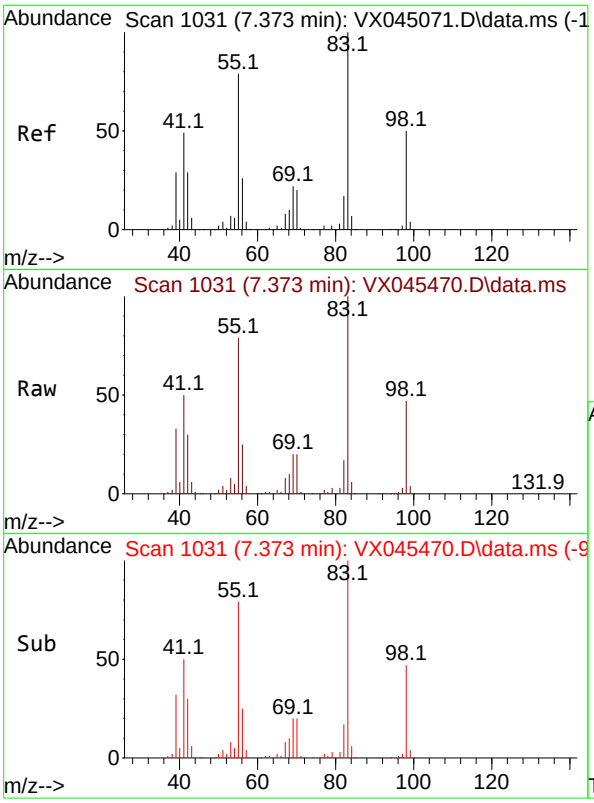


#38
Carbon Tetrachloride
Concen: 64.575 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:117 Resp: 86948

Ion	Ratio	Lower	Upper
117	100		
119	91.5	76.7	115.1
121	29.5	25.5	38.3



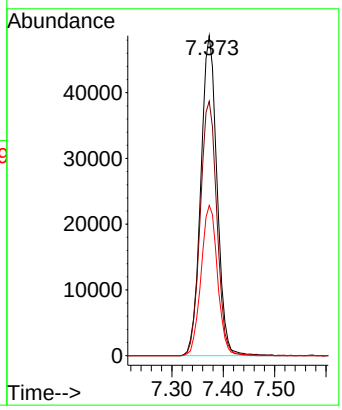


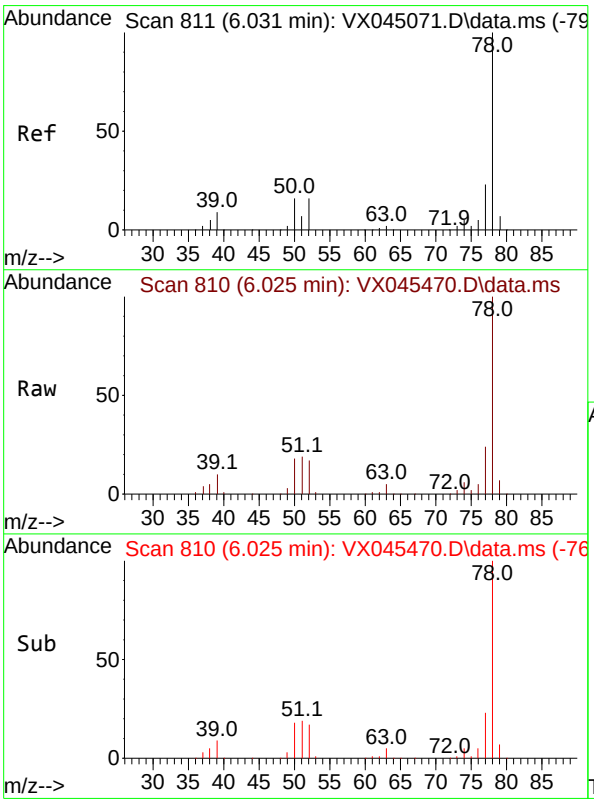
#39
Methylcyclohexane
Concen: 67.014 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 106496

Ion	Ratio	Lower	Upper
83	100		
55	79.5	63.0	94.4
98	46.9	39.7	59.5

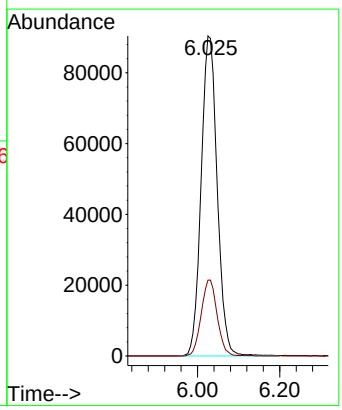


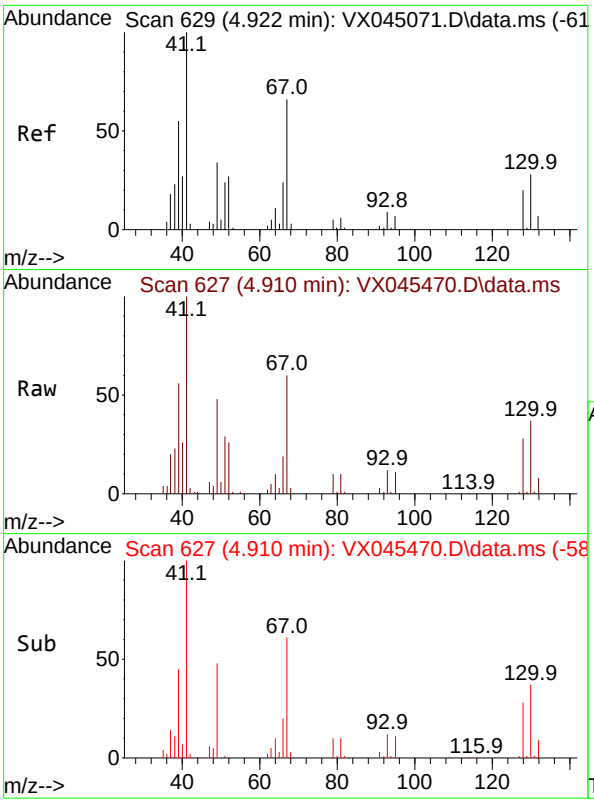


#40
Benzene
Concen: 58.506 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 78 Resp: 245023

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2



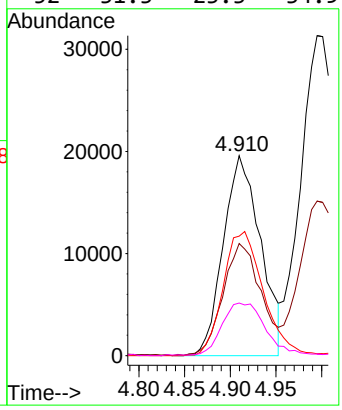


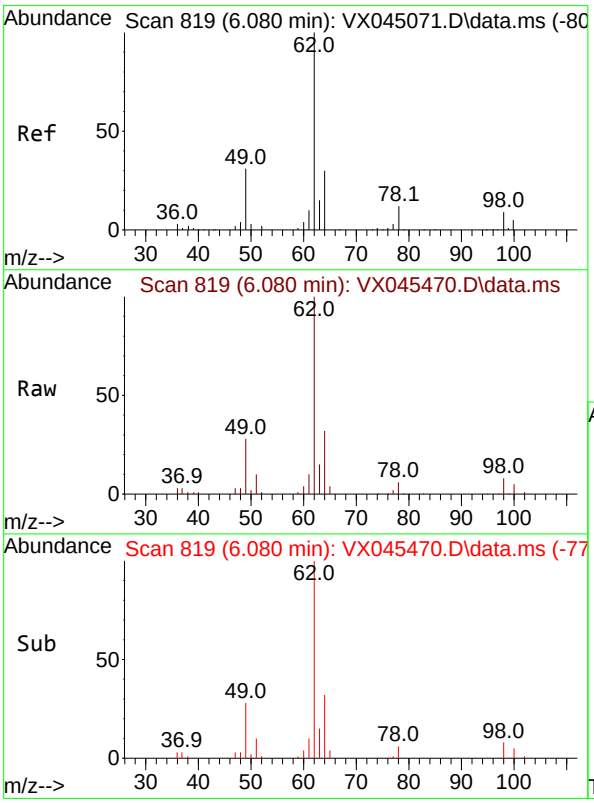
#41
Methacrylonitrile
Concen: 60.156 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 55588

Ion	Ratio	Lower	Upper
41	100		
39	57.3	44.6	67.0
67	67.6	53.9	80.9
52	31.3	23.3	34.9

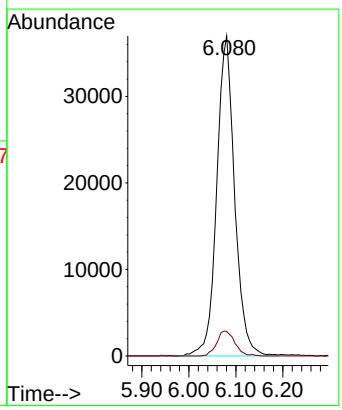


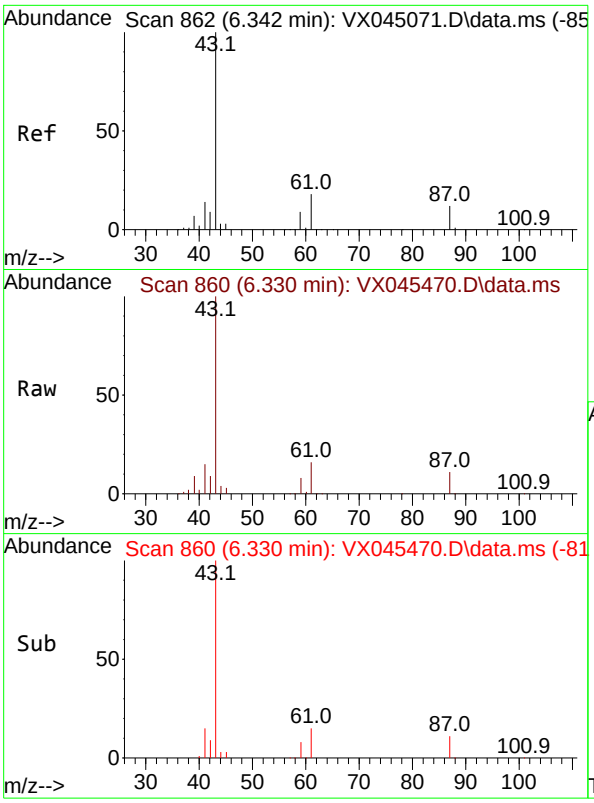


#42
1,2-Dichloroethane
Concen: 65.005 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 62 Resp: 98034

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	18.2



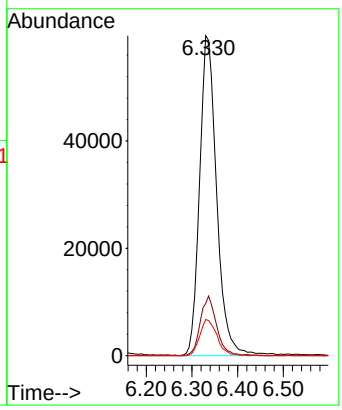


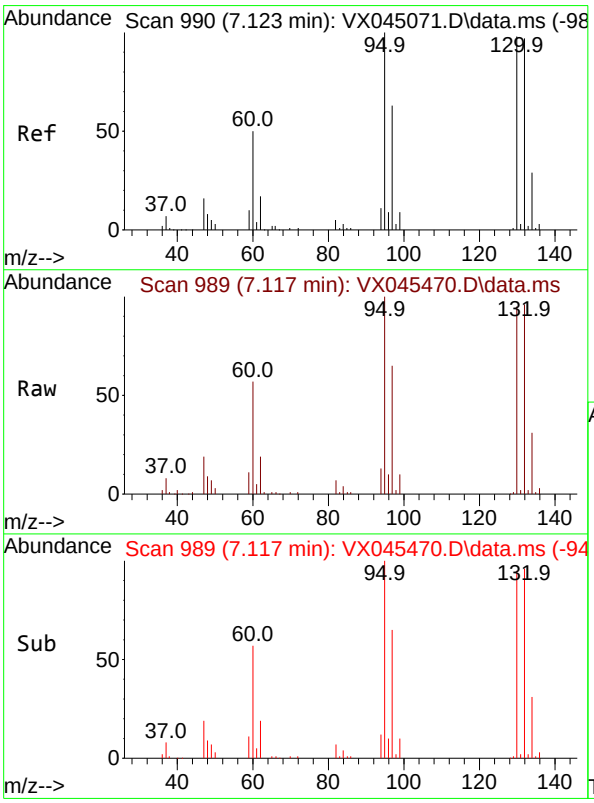
#43
Isopropyl Acetate
Concen: 61.276 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 154848

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.9	22.3
87	11.4	9.4	14.2

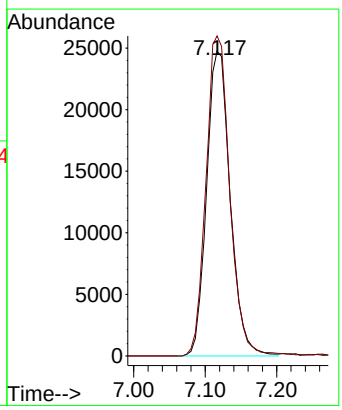


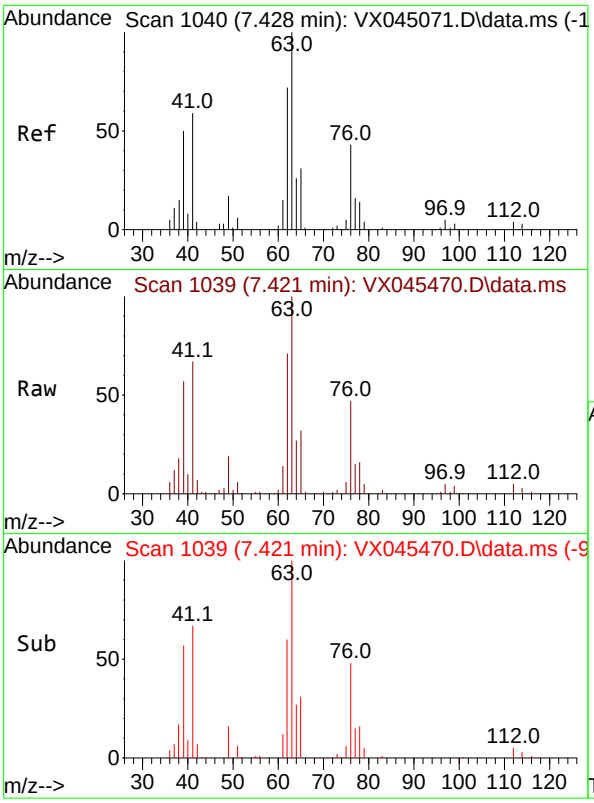


#44
Trichloroethene
Concen: 57.714 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:130 Resp: 56755

Ion	Ratio	Lower	Upper
130	100		
95	105.0	0.0	205.0



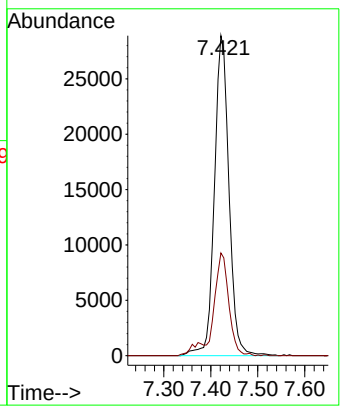


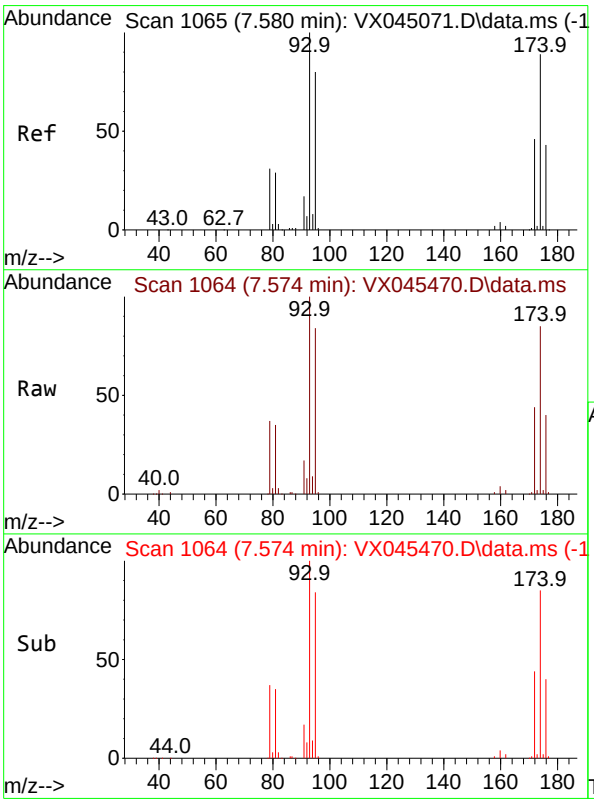
#45
1,2-Dichloropropane
Concen: 57.950 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 62399

Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.7	37.1

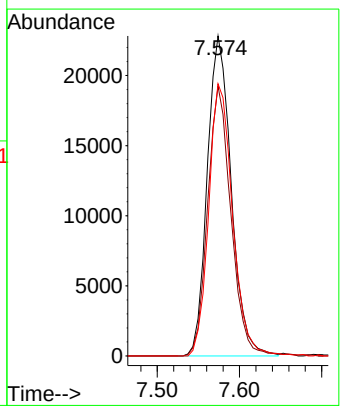


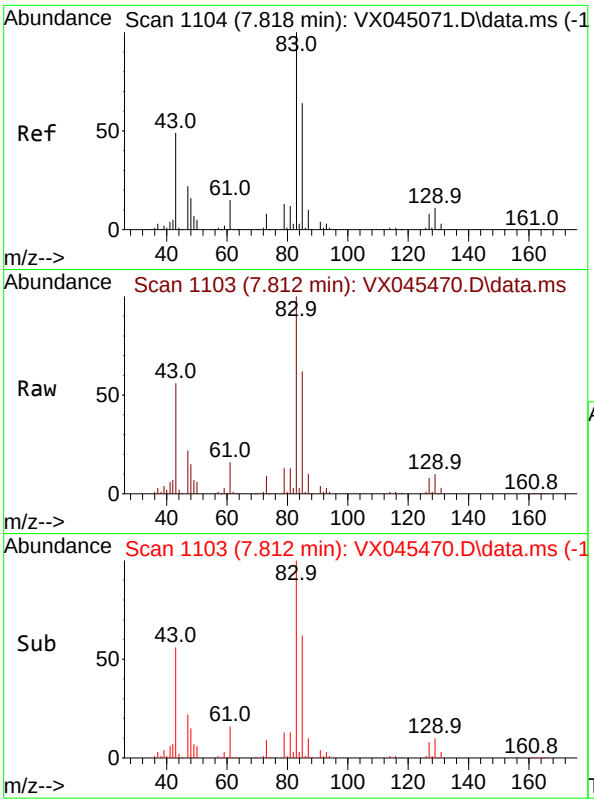


#46
Dibromomethane
Concen: 60.735 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 93 Resp: 46224

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.8	98.8
174	84.9	72.2	108.2



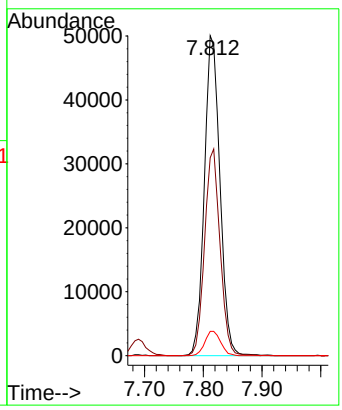


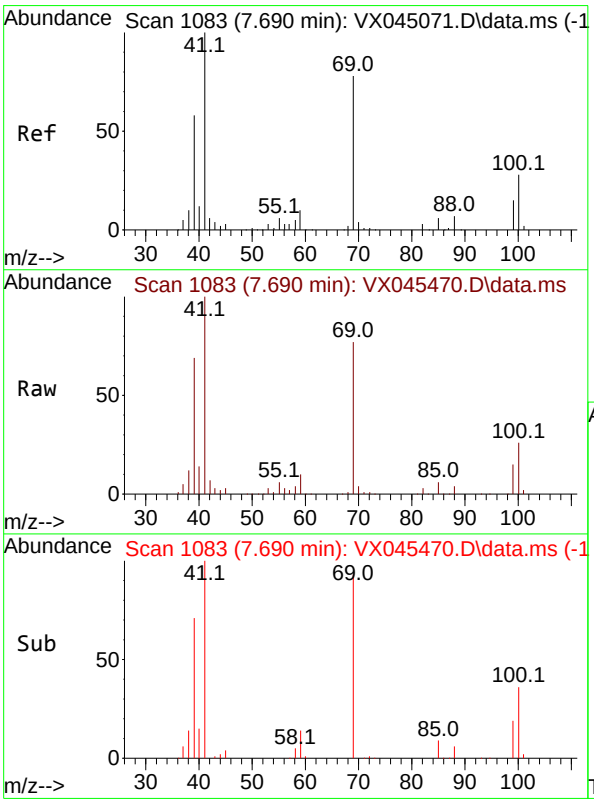
#47
Bromodichloromethane
Concen: 61.857 ug/l
RT: 7.812 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 92342

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	7.6	6.4	9.6

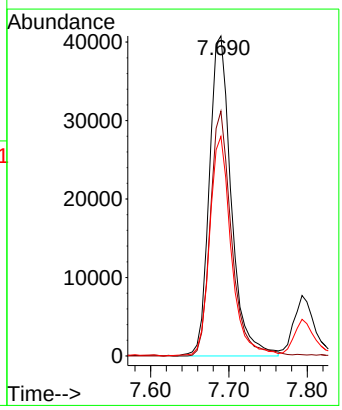


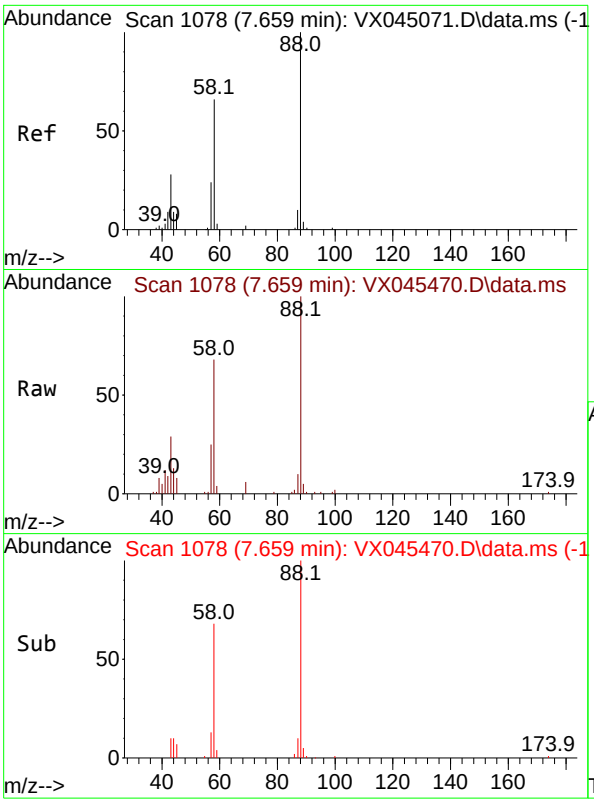


#48
Methyl methacrylate
Concen: 62.623 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 41 Resp: 79394

Ion	Ratio	Lower	Upper
41	100		
69	74.2	63.0	94.6
39	67.3	47.5	71.3



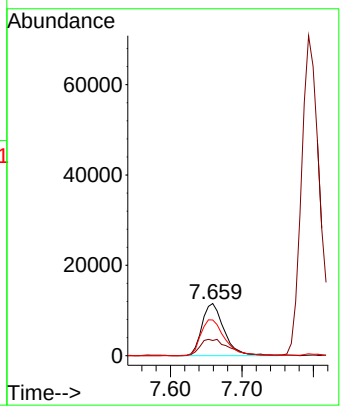


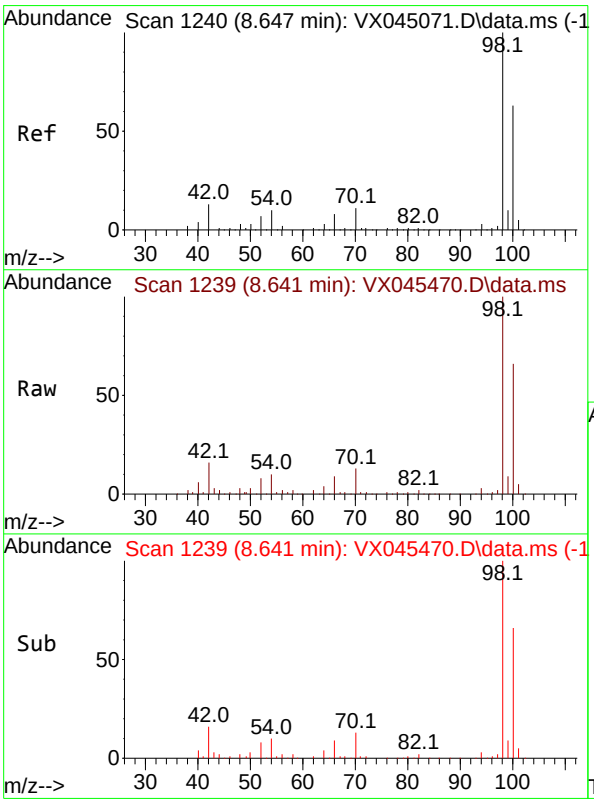
#49
1,4-Dioxane
Concen: 929.442 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 24856

Ion	Ratio	Lower	Upper
88	100		
43	41.3	28.7	43.1
58	74.5	55.8	83.8

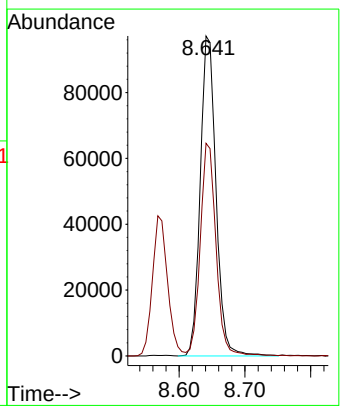


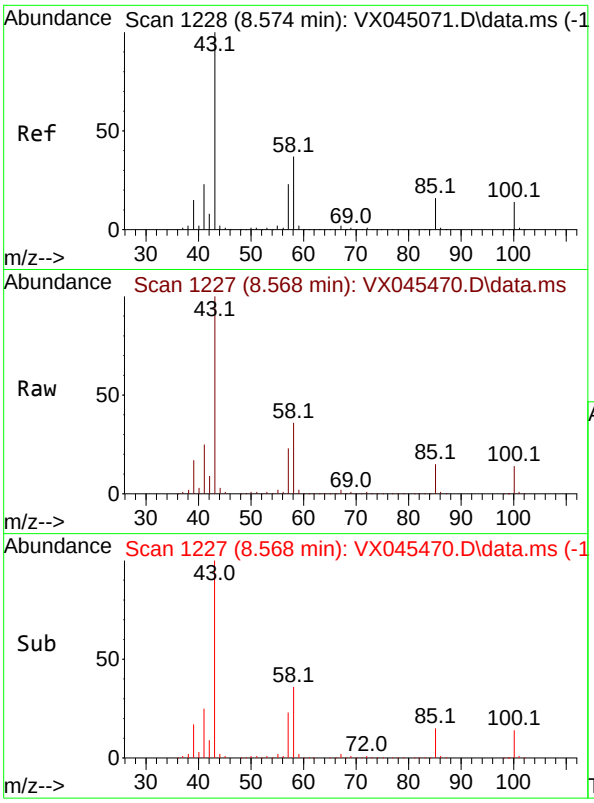


#50
Toluene-d8
Concen: 46.211 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 98 Resp: 162016

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.0	78.0



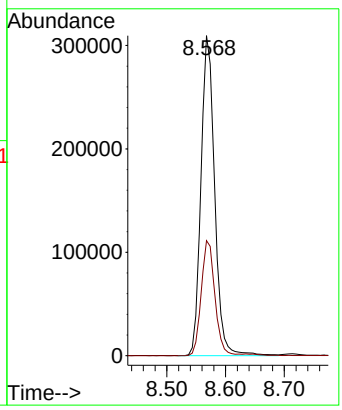


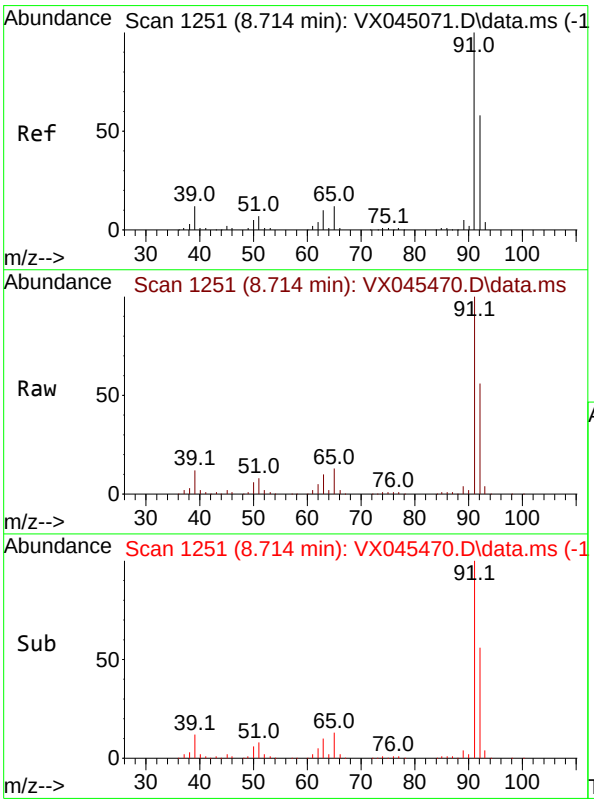
#51
4-Methyl-2-Pentanone
Concen: 295.634 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 501625

Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.2	43.8

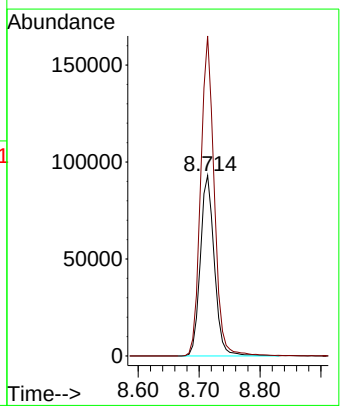


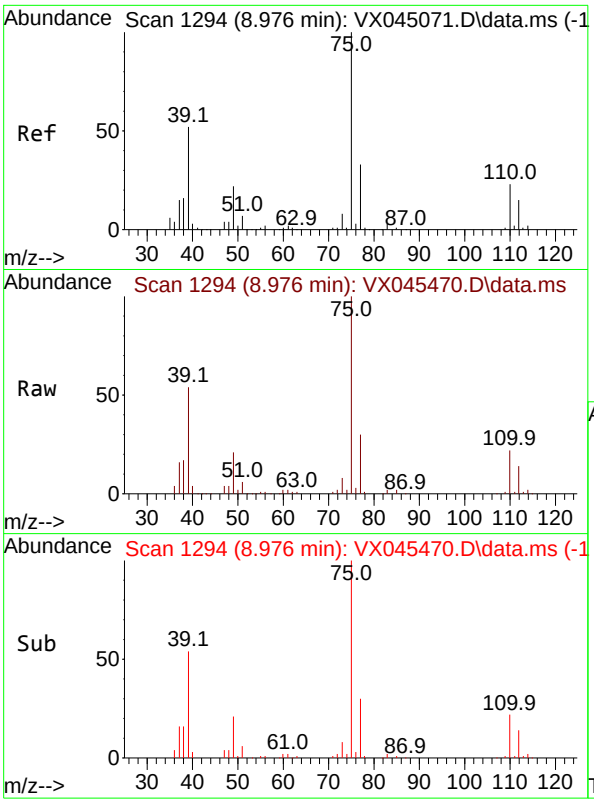


#52
Toluene
Concen: 60.468 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 92 Resp: 148581

Ion	Ratio	Lower	Upper
92	100		
91	172.2	138.9	208.3



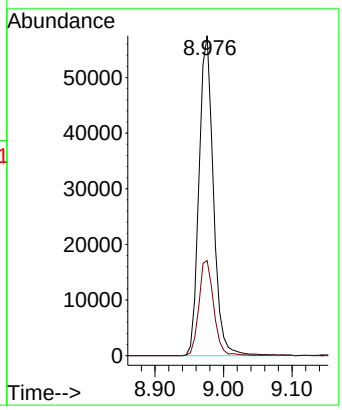


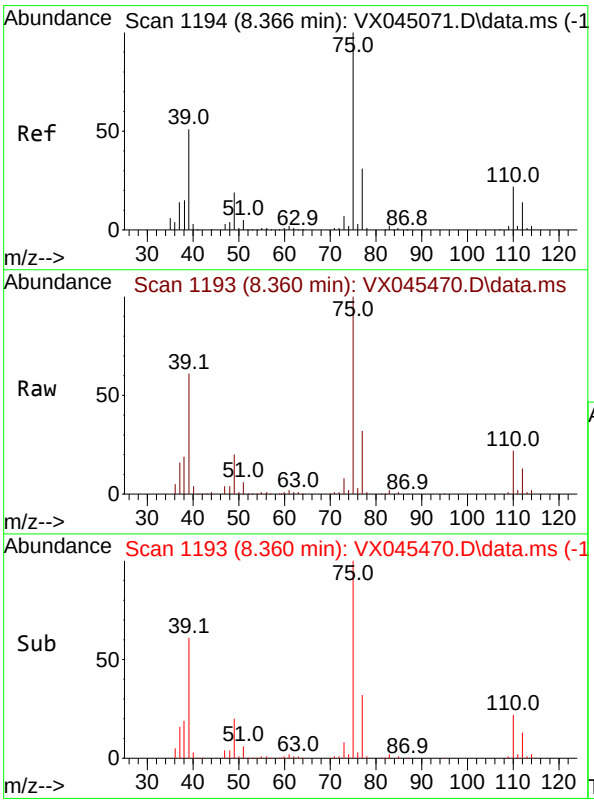
#53
t-1,3-Dichloropropene
Concen: 67.431 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 84155

Ion	Ratio	Lower	Upper
75	100		
77	29.7	26.5	39.7

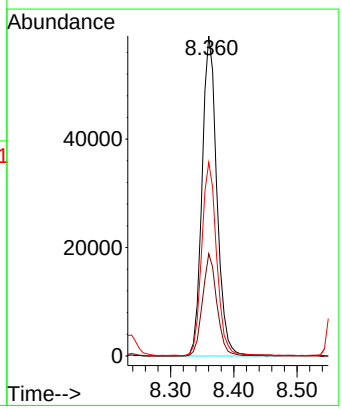


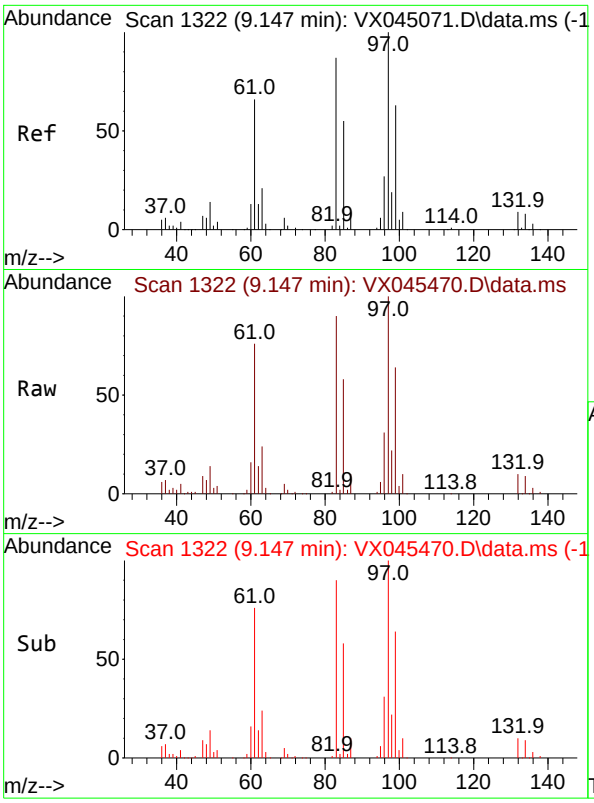


#54
cis-1,3-Dichloropropene
Concen: 66.080 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 96166

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.7	37.1
39	60.3	40.7	61.1



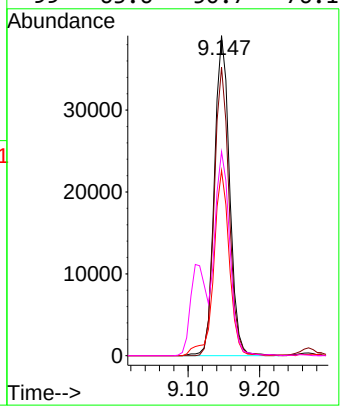


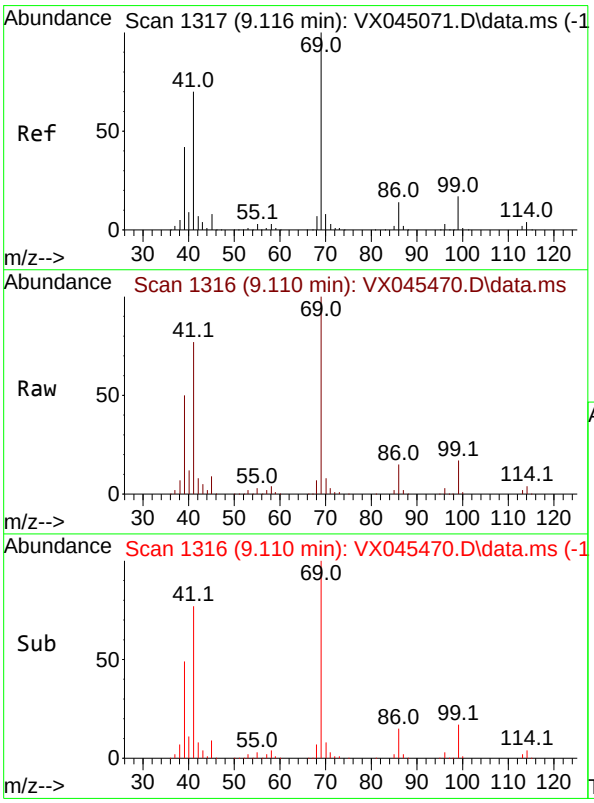
#55
1,1,2-Trichloroethane
Concen: 57.001 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 57660

Ion	Ratio	Lower	Upper
97	100		
83	90.1	69.4	104.2
85	57.9	44.1	66.1
99	63.6	50.7	76.1

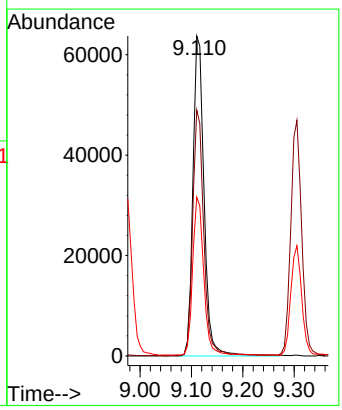


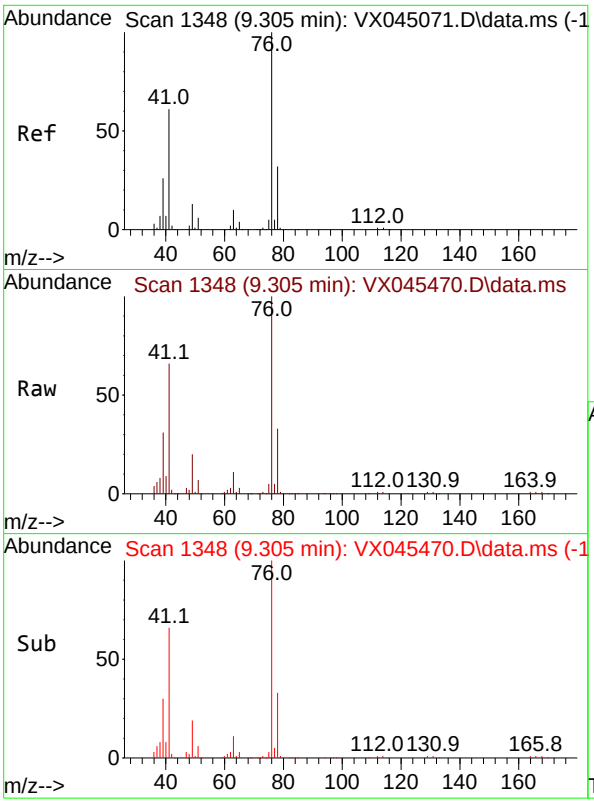


#56
Ethyl methacrylate
Concen: 62.321 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 69 Resp: 95827

Ion	Ratio	Lower	Upper
69	100		
41	76.1	57.0	85.4
39	49.4	34.2	51.4



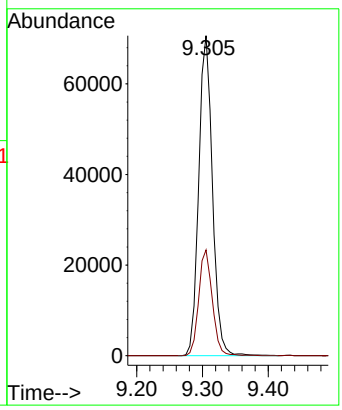


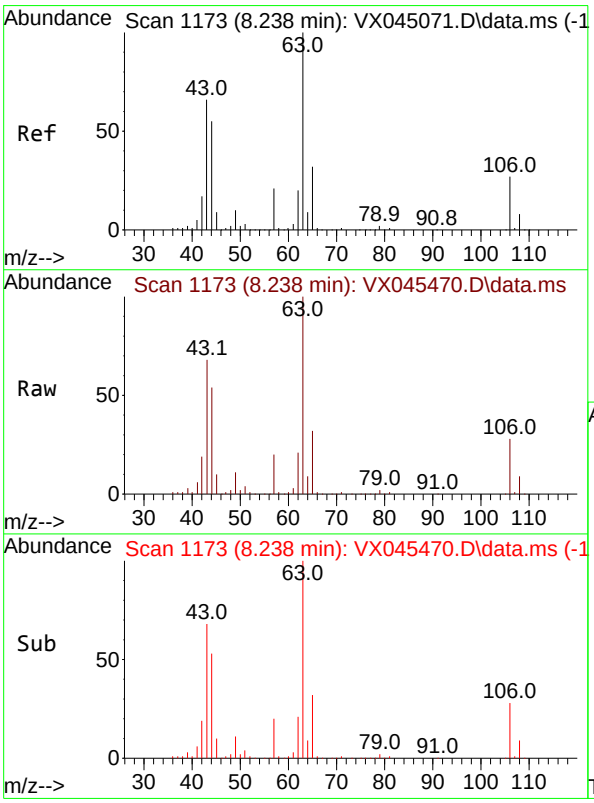
#57
1,3-Dichloropropane
Concen: 58.517 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 102439

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.5	38.3

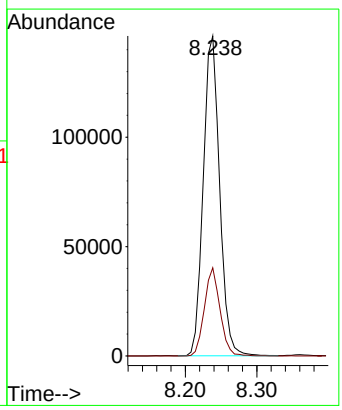


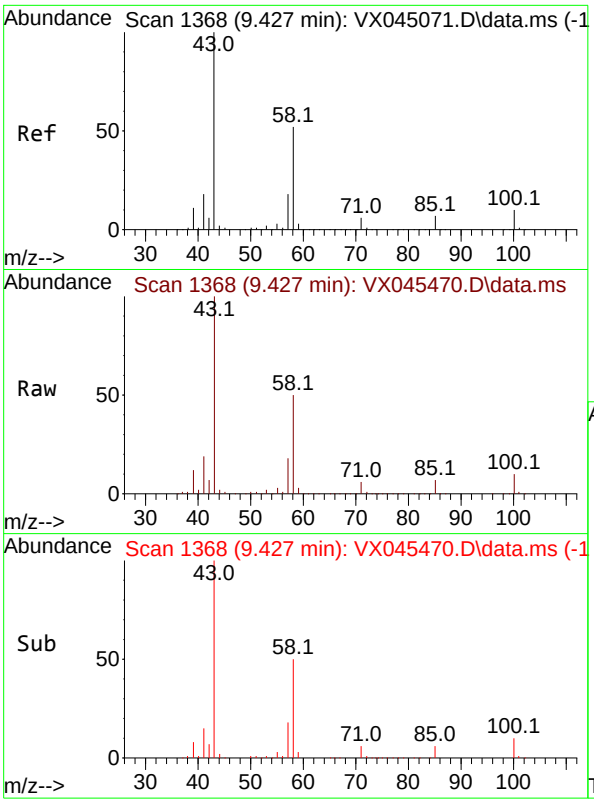


#58
2-Chloroethyl Vinyl ether
Concen: 309.665 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 63 Resp: 232271

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.5	32.3



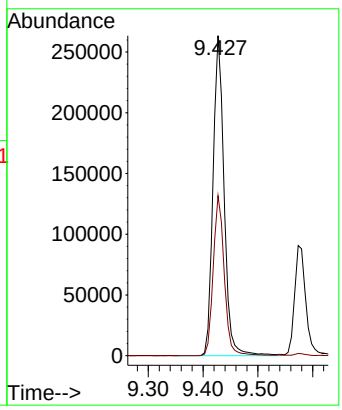


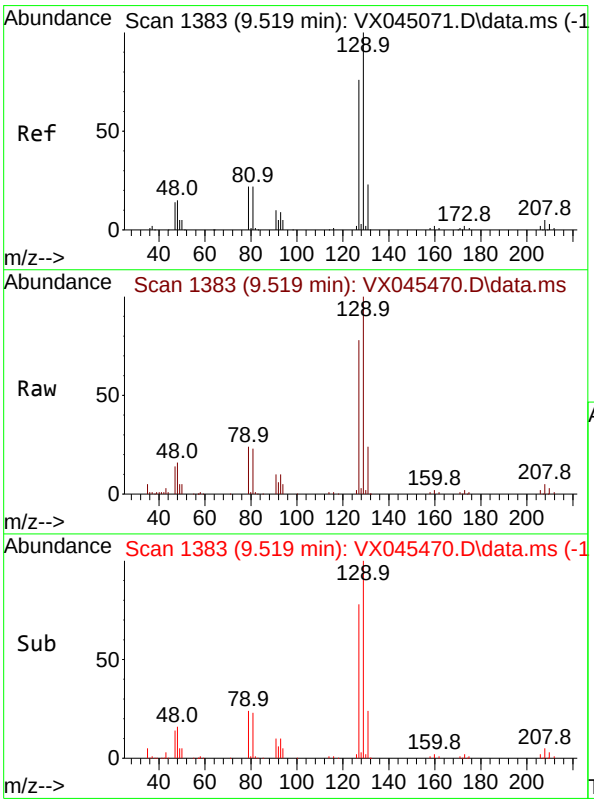
#59
2-Hexanone
Concen: 300.058 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 368887

Ion	Ratio	Lower	Upper
43	100		
58	50.0	25.9	77.6

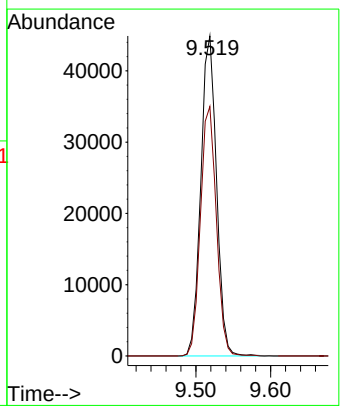


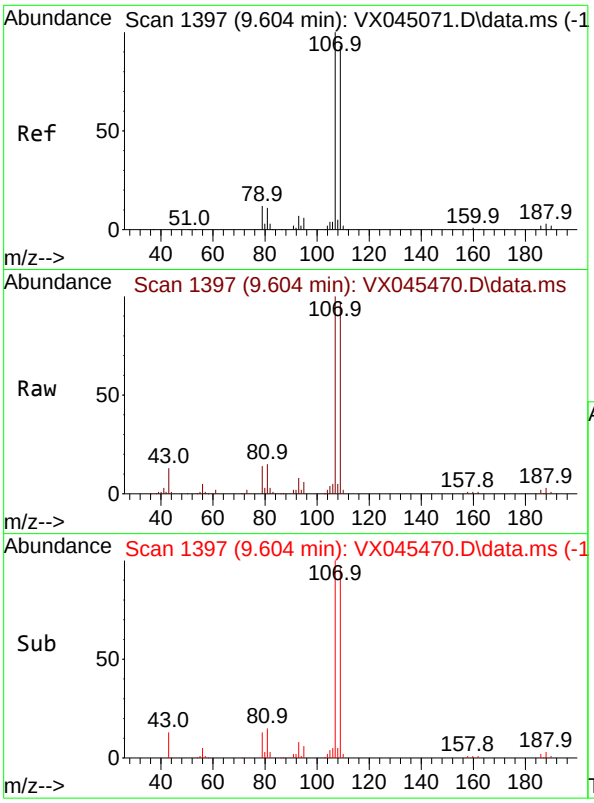


#60
Dibromochloromethane
Concen: 61.881 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:129 Resp: 65450

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5



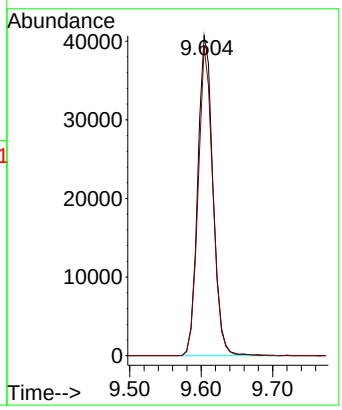


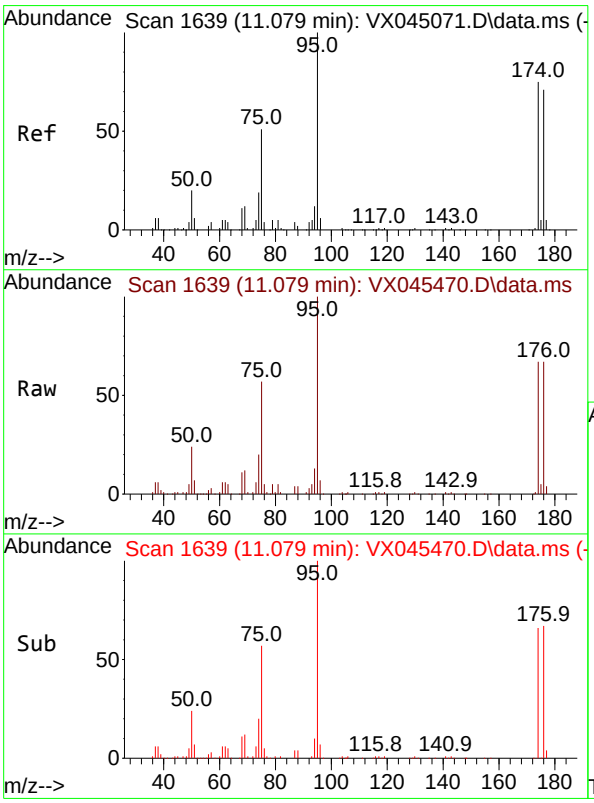
#61
1,2-Dibromoethane
Concen: 59.203 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 59785

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1

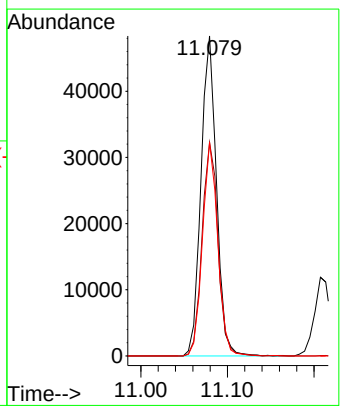


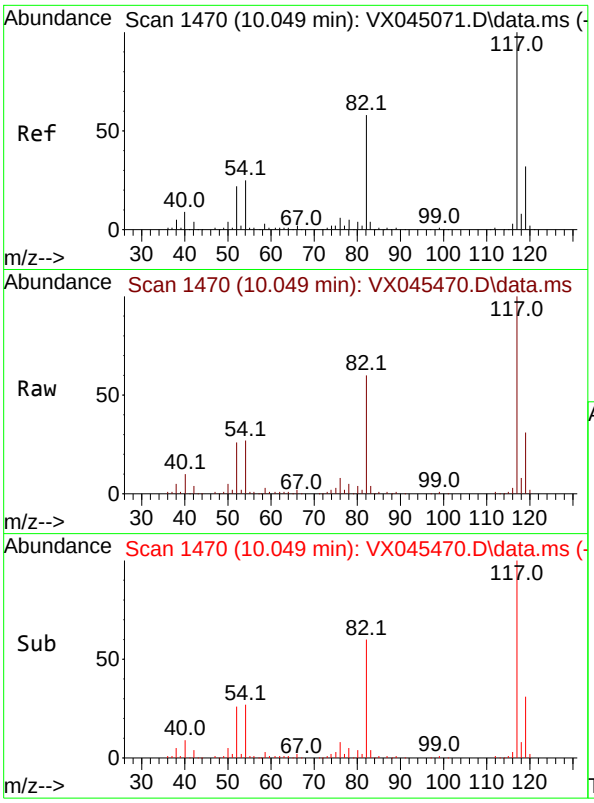


#62
4-Bromofluorobenzene
Concen: 51.714 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 95 Resp: 60080

Ion	Ratio	Lower	Upper
95	100		
174	68.8	0.0	148.2
176	66.0	0.0	141.4



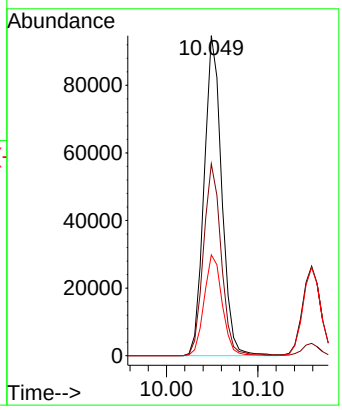


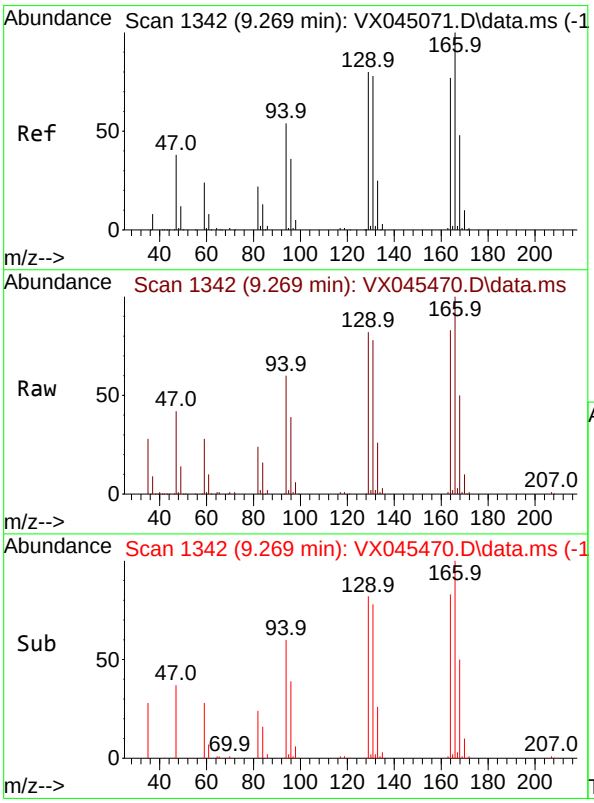
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 126386

Ion	Ratio	Lower	Upper
117	100		
82	60.0	46.3	69.5
119	31.5	25.7	38.5

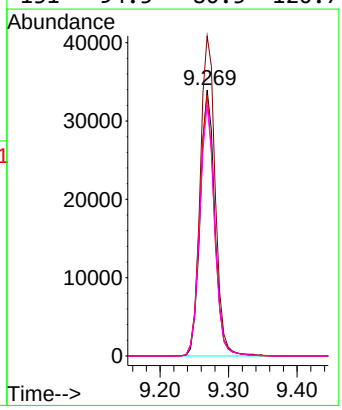


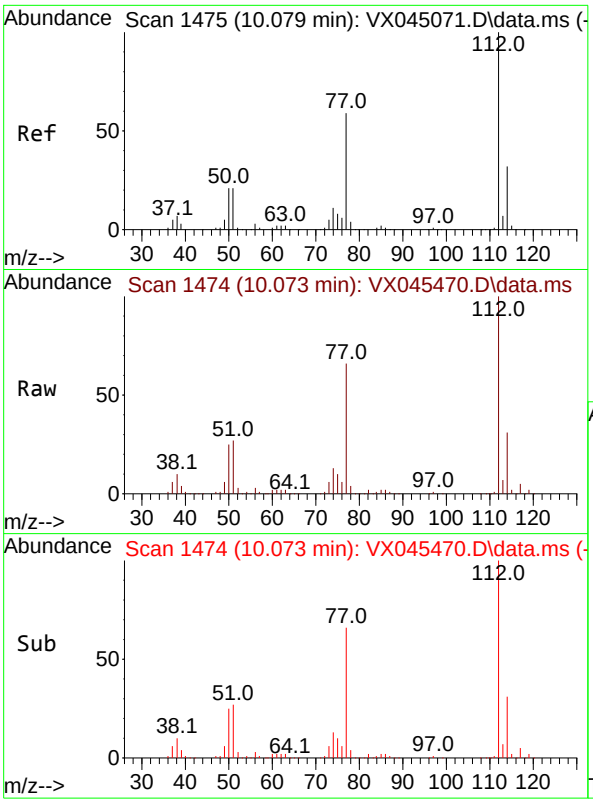


#64
Tetrachloroethene
Concen: 61.975 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:164 Resp: 50166

Ion	Ratio	Lower	Upper
164	100		
166	120.4	103.6	155.4
129	98.2	82.7	124.1
131	94.5	80.5	120.7



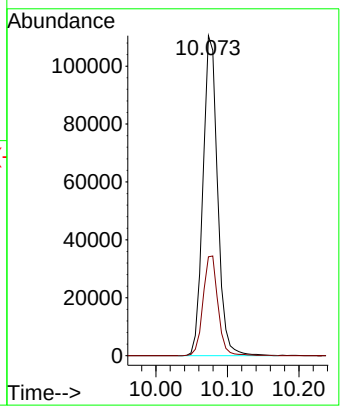


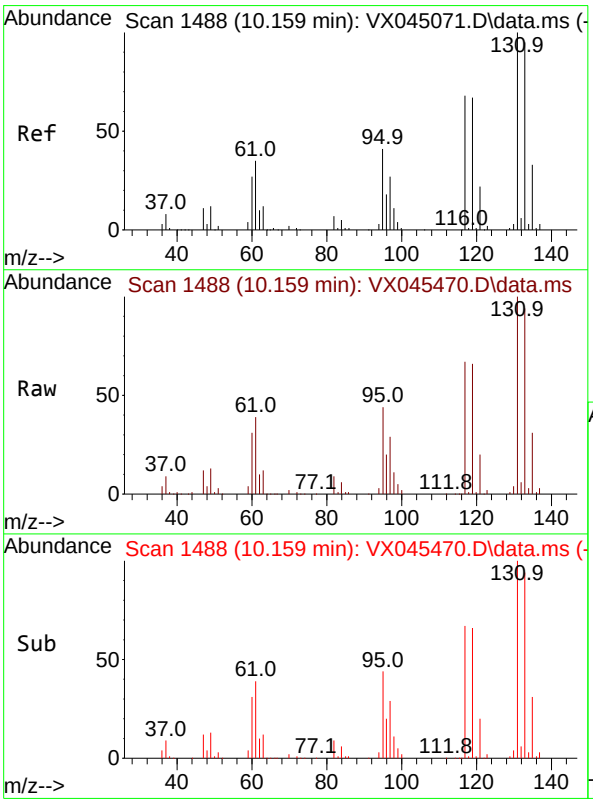
#65
Chlorobenzene
Concen: 58.675 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 156914

Ion	Ratio	Lower	Upper
112	100		
114	30.9	26.0	39.0

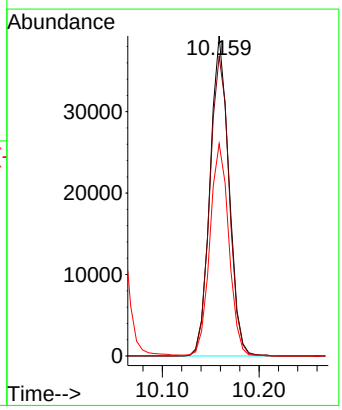


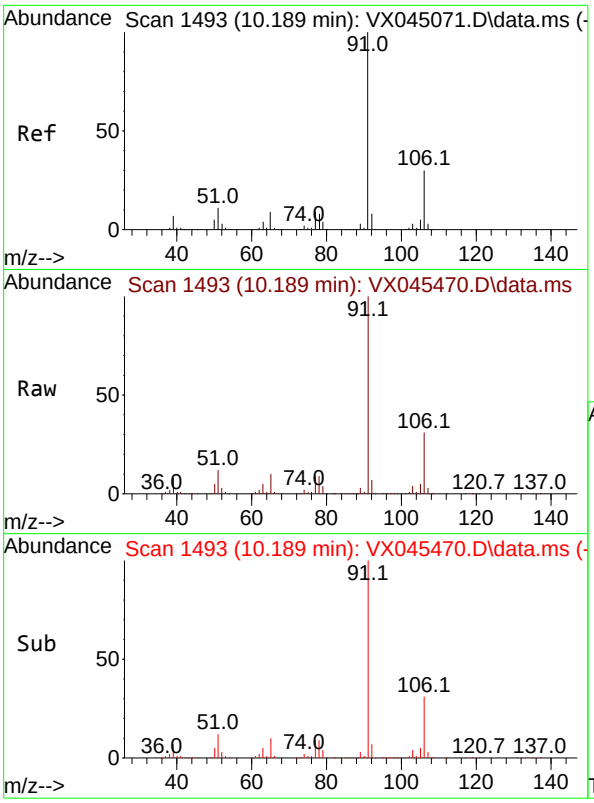


#66
1,1,1,2-Tetrachloroethane
Concen: 59.666 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:131 Resp: 53138

Ion	Ratio	Lower	Upper
131	100		
133	96.4	48.6	145.9
119	66.7	33.9	101.7



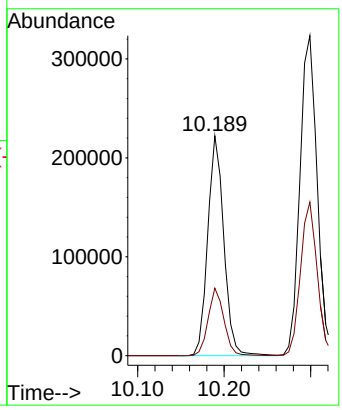


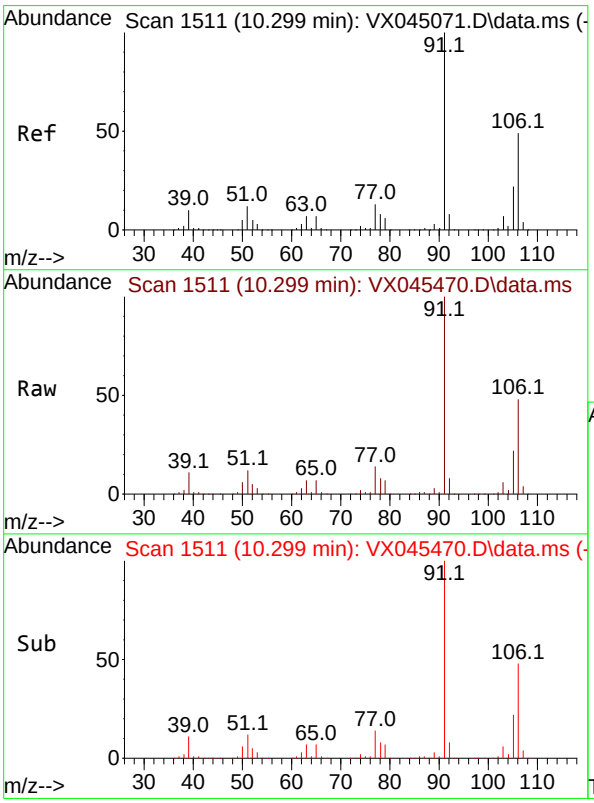
#67
Ethyl Benzene
Concen: 61.556 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 286839

Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.9	35.9

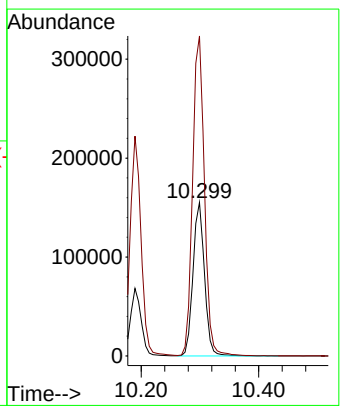


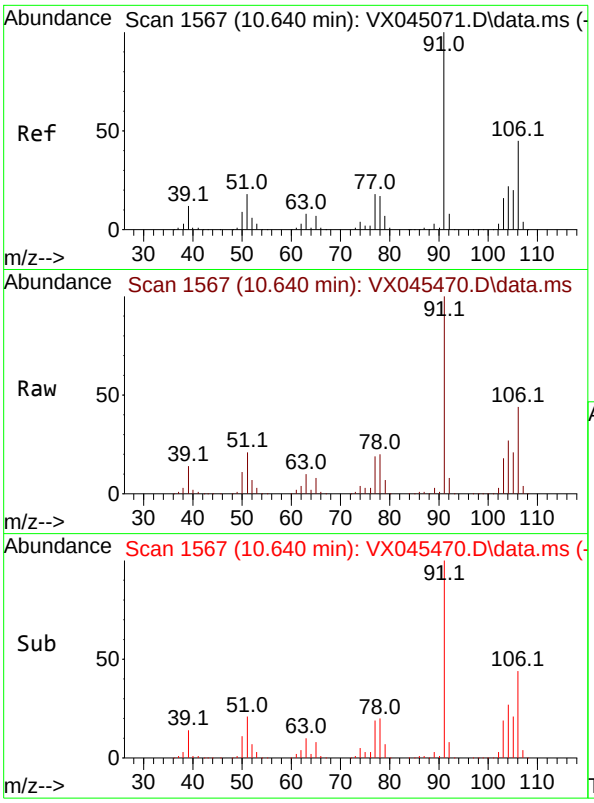


#68
m/p-Xylenes
Concen: 123.563 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:106 Resp: 210779

Ion	Ratio	Lower	Upper
106	100		
91	213.7	165.4	248.0



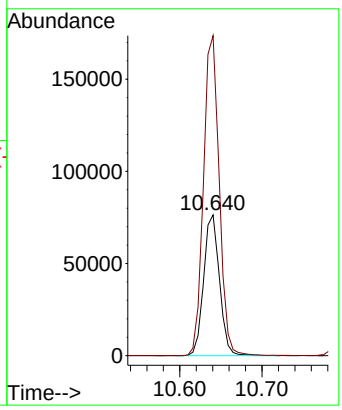


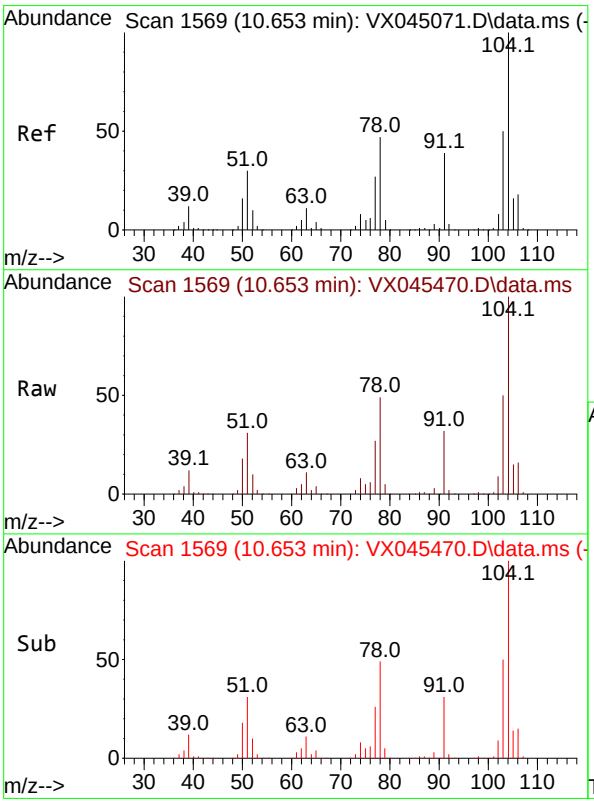
#69
o-Xylene
Concen: 59.282 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 101992

Ion	Ratio	Lower	Upper
106	100		
91	227.0	109.9	329.6

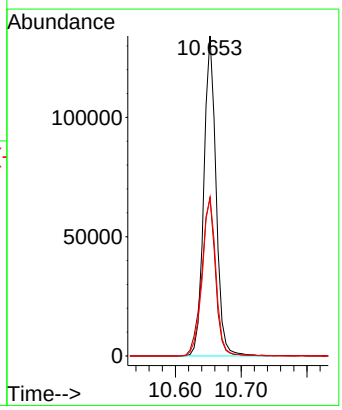


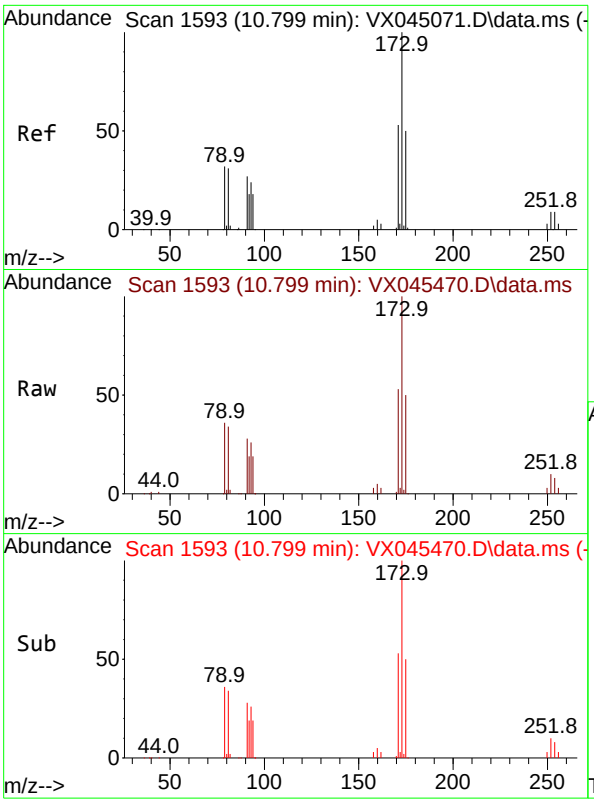


#70
Styrene
Concen: 62.523 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:104 Resp: 174051

Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.2	63.4
103	55.4	43.8	65.8



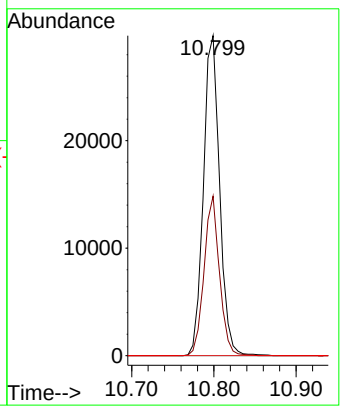


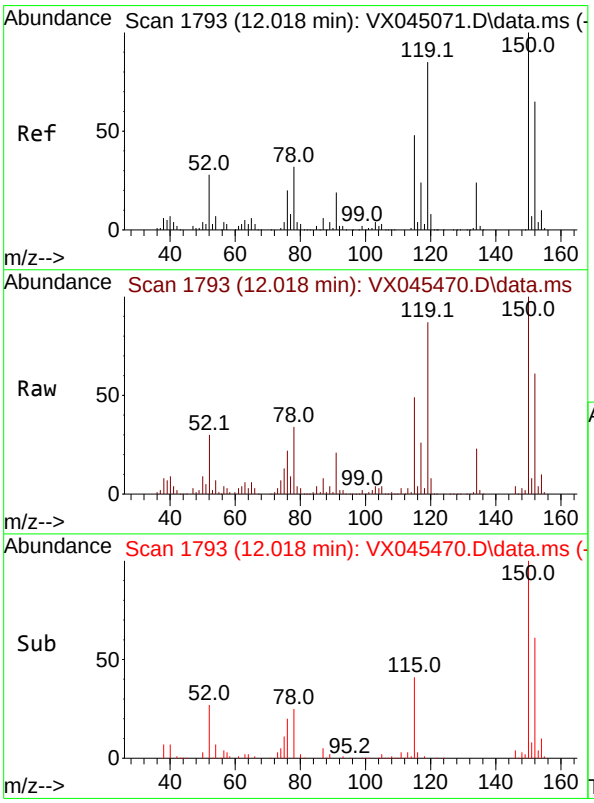
#71
Bromoform
Concen: 60.576 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 40682

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.6
254	0.0	0.0	0.0

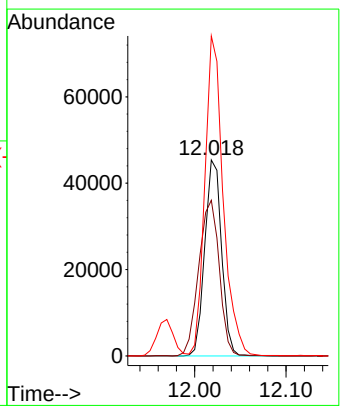


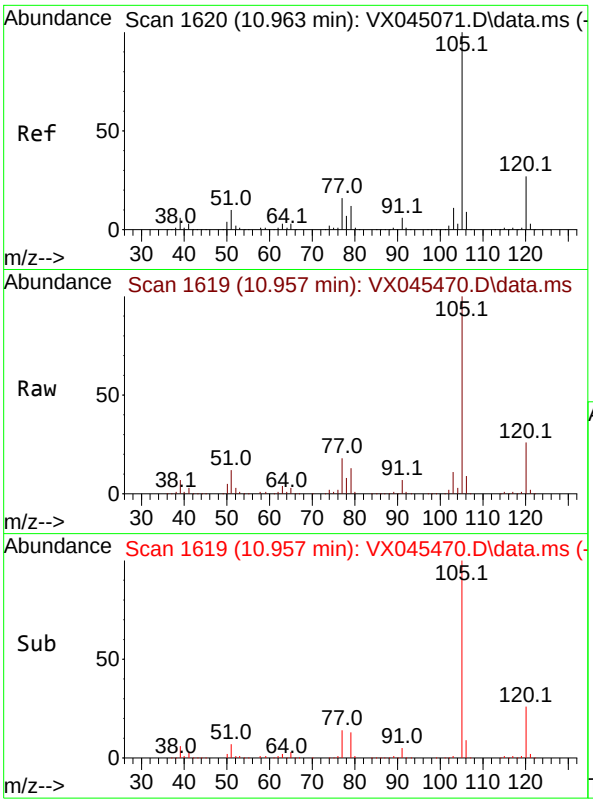


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:152 Resp: 57791

Ion	Ratio	Lower	Upper
152	100		
115	97.3	44.2	132.6
150	177.6	0.0	349.0



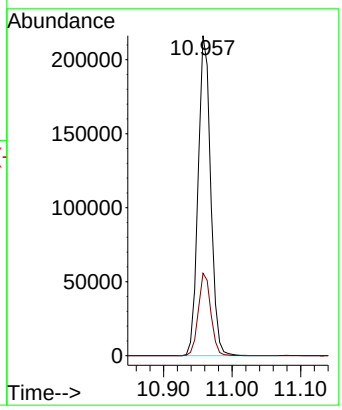


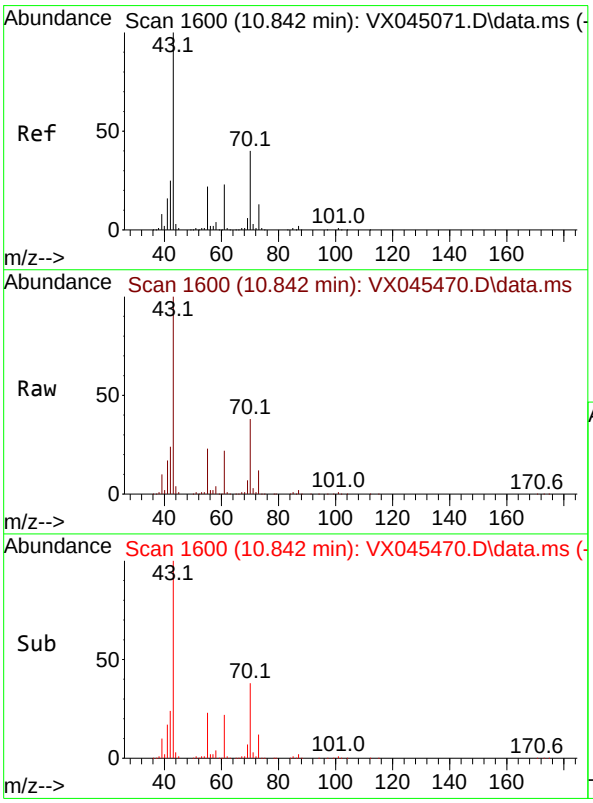
#73
Isopropylbenzene
Concen: 61.143 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 275801

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5

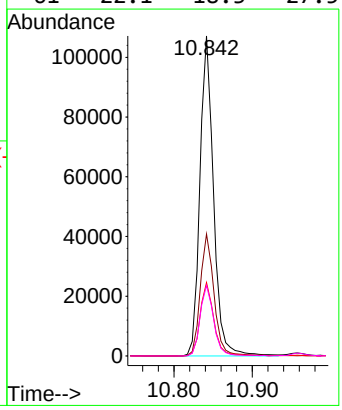


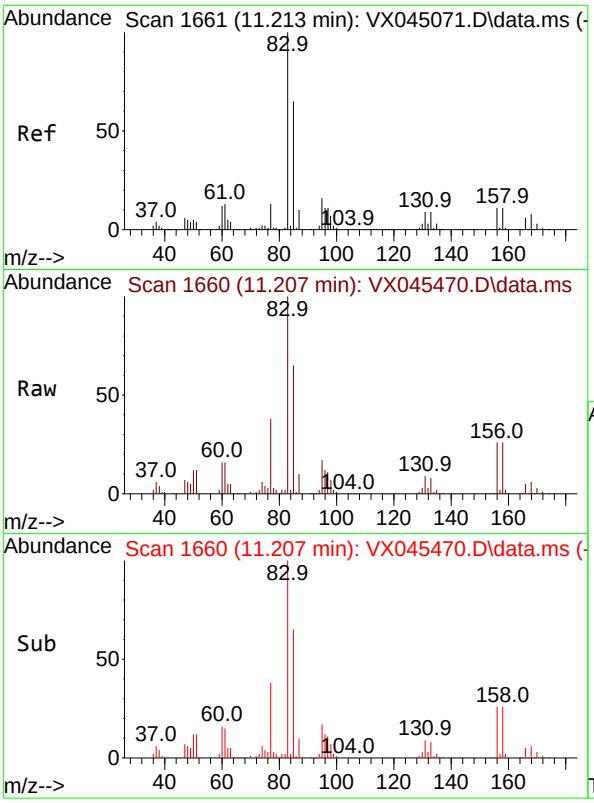


#74
N-amyl acetate
Concen: 61.124 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 129374

Ion	Ratio	Lower	Upper
43	100		
70	38.8	31.8	47.6
55	23.3	18.3	27.5
61	22.1	18.3	27.5



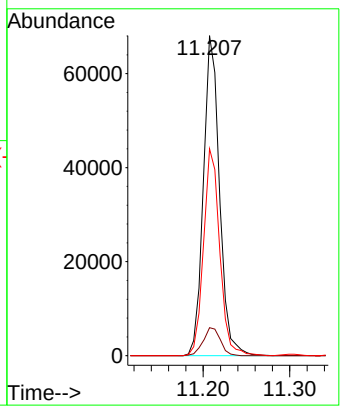


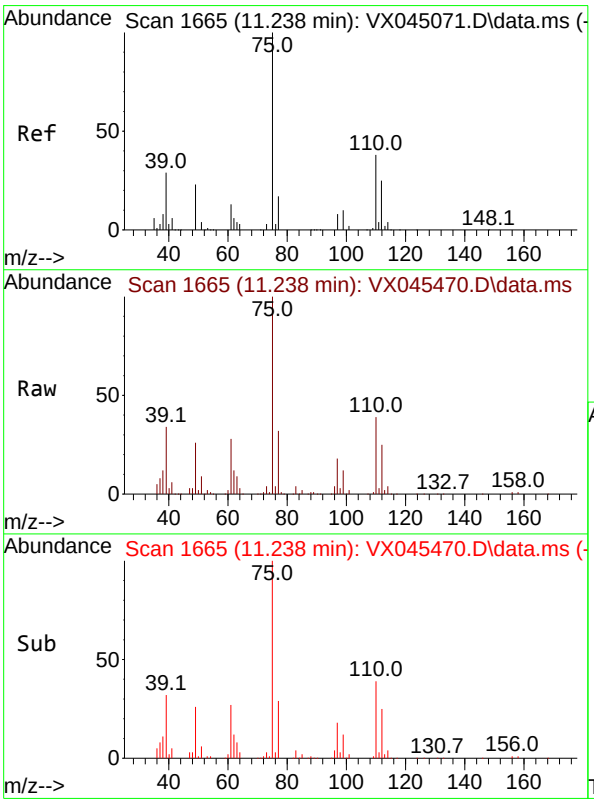
#75
1,1,2,2-Tetrachloroethane
Concen: 53.116 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 87921

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.4
85	64.9	31.7	95.1

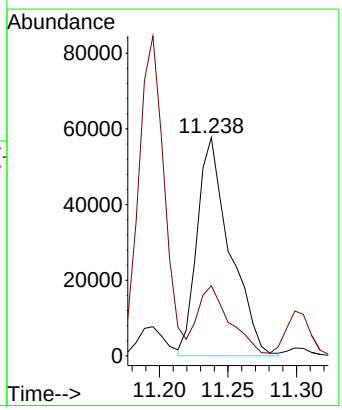


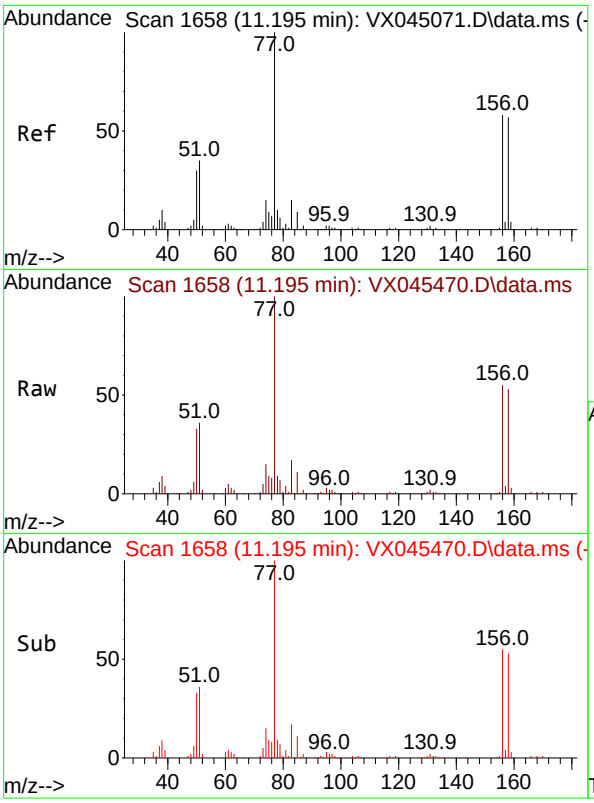


#76
1,2,3-Trichloropropane
Concen: 71.396 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 96034

Ion	Ratio	Lower	Upper
75	100		
77	32.0	20.7	62.1



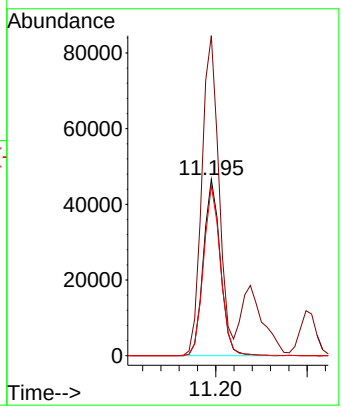


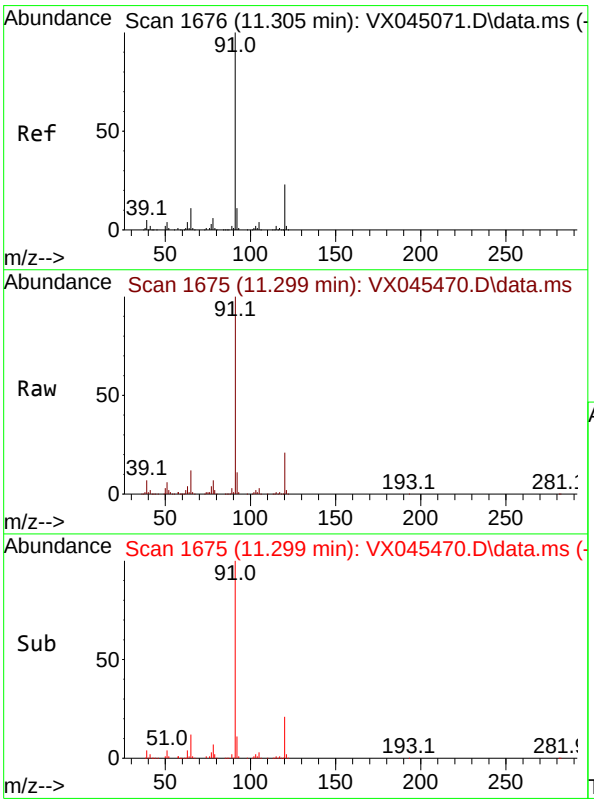
#77
Bromobenzene
Concen: 56.145 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 59754

Ion	Ratio	Lower	Upper
156	100		
77	183.9	85.8	257.4
158	96.4	48.4	145.2

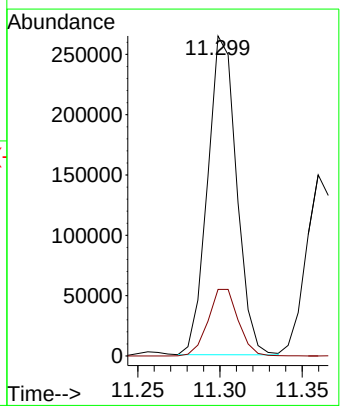


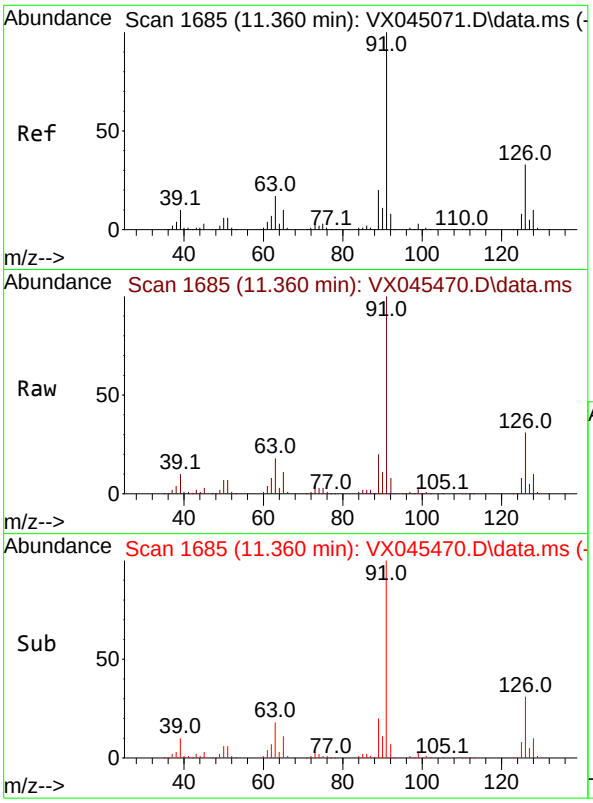


#78
n-propylbenzene
Concen: 63.648 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 91 Resp: 324320

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6



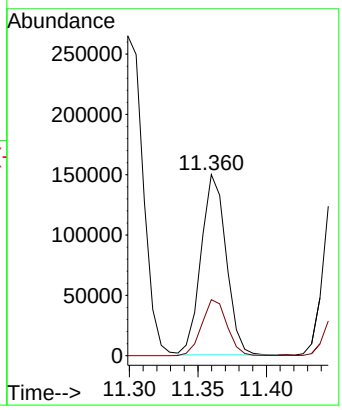


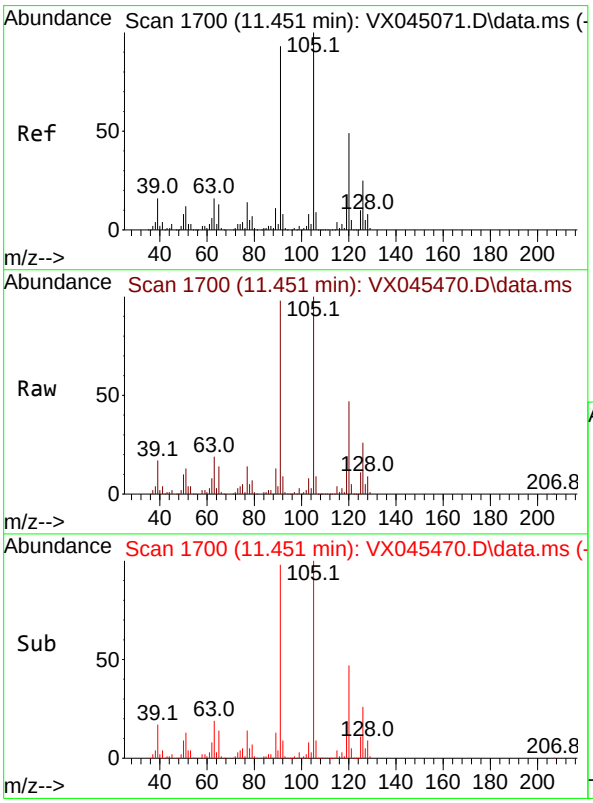
#79
2-Chlorotoluene
Concen: 58.698 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 190484

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.4	49.4

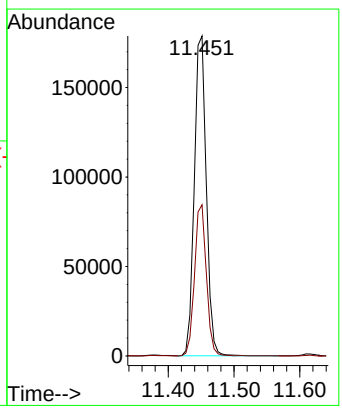


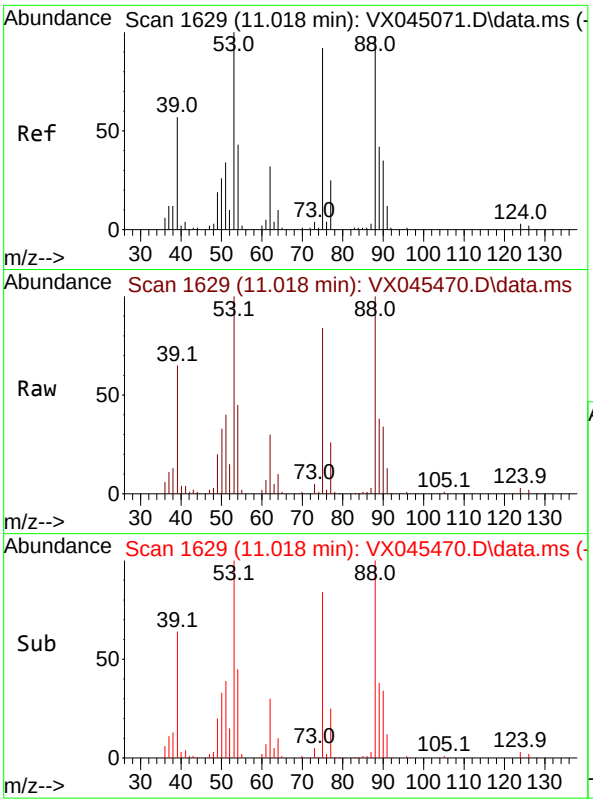


#80
1,3,5-Trimethylbenzene
Concen: 61.682 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:105 Resp: 224971

Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.2



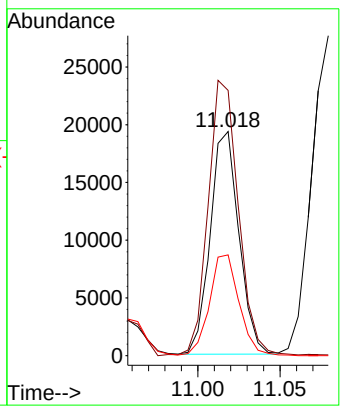


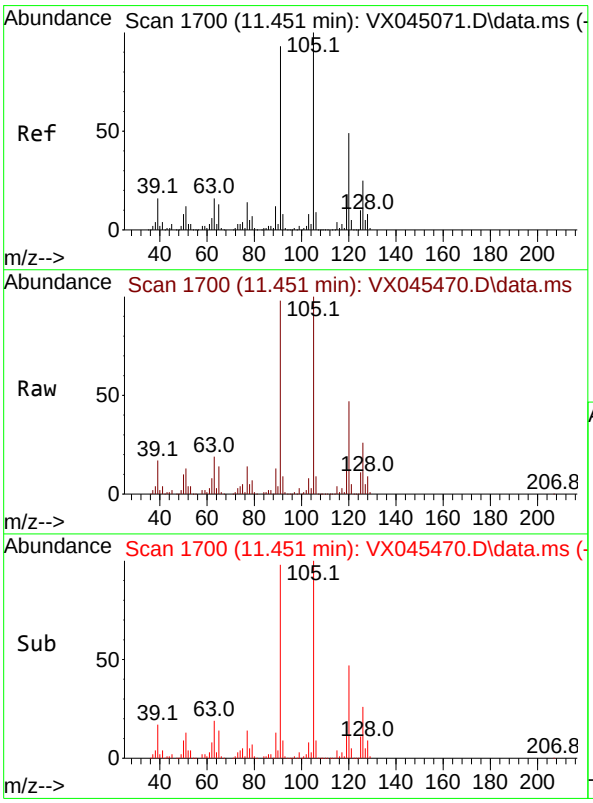
#81
trans-1,4-Dichloro-2-butene
Concen: 59.684 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 23459

Ion	Ratio	Lower	Upper
75	100		
53	130.6	88.5	132.7
89	46.8	36.2	54.4

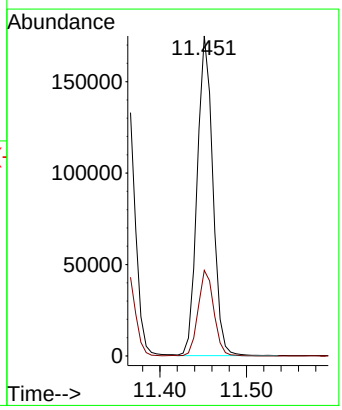


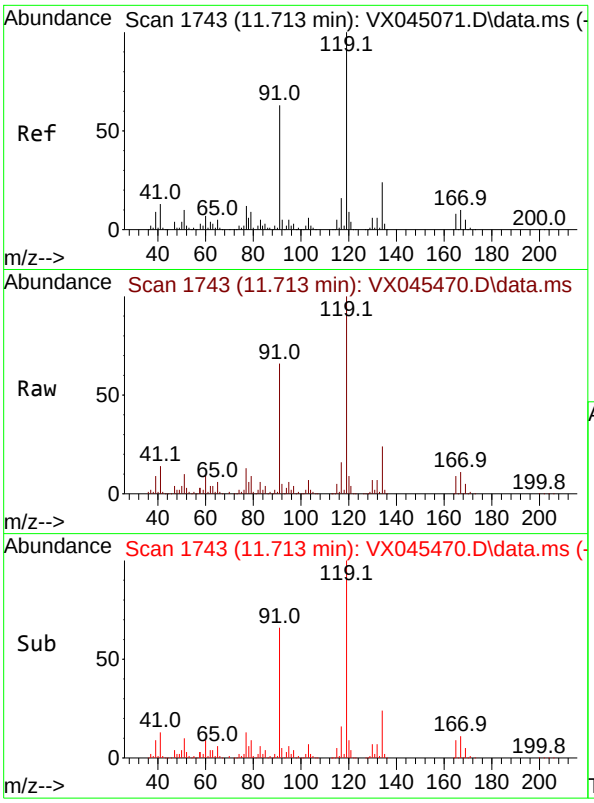


#82
4-Chlorotoluene
Concen: 61.848 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 91 Resp: 218741

Ion	Ratio	Lower	Upper
91	100		
126	26.9	14.1	42.4



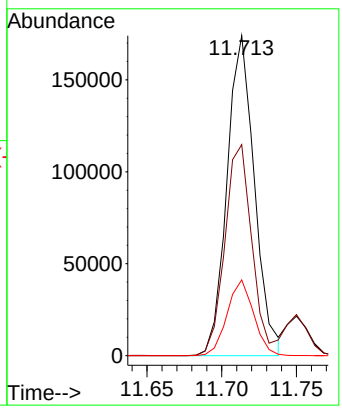


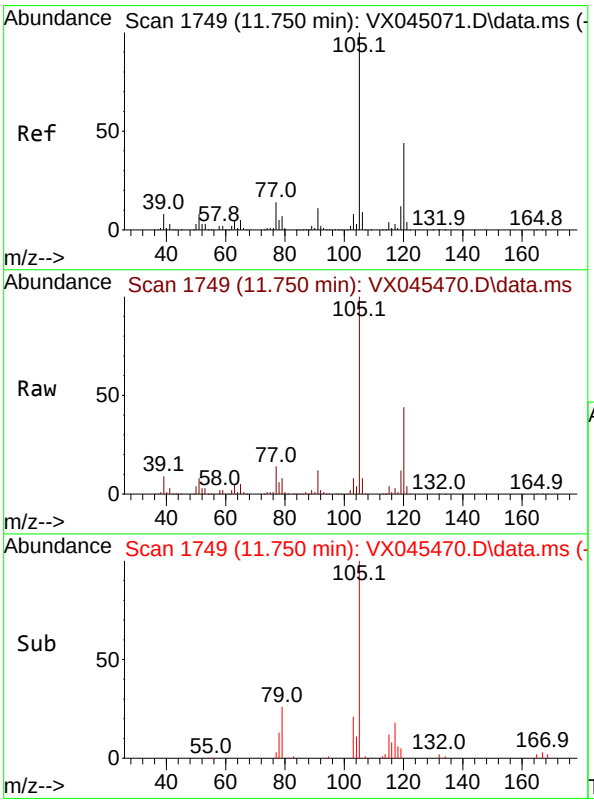
#83
tert-Butylbenzene
Concen: 59.370 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 222490

Ion	Ratio	Lower	Upper
119	100		
91	64.2	30.7	92.1
134	22.9	11.7	35.0

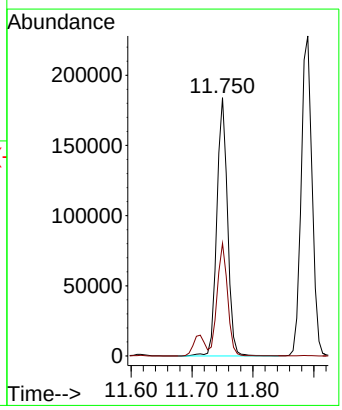


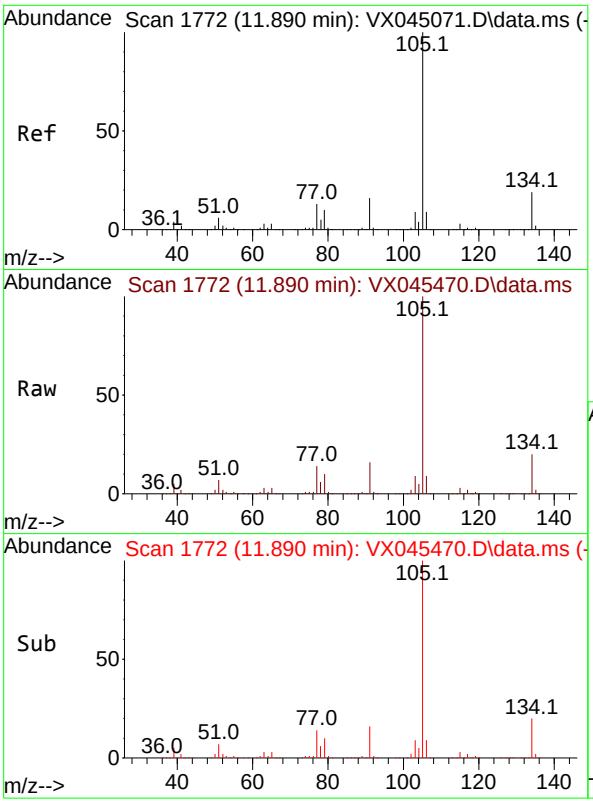


#84
1,2,4-Trimethylbenzene
Concen: 61.068 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:105 Resp: 224111

Ion	Ratio	Lower	Upper
105	100		
120	42.7	22.1	66.1



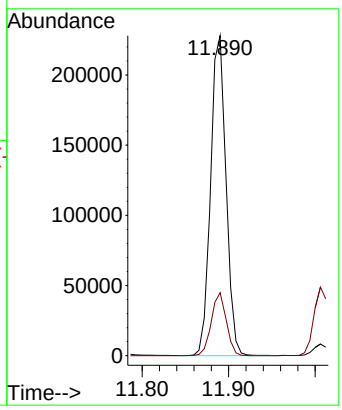


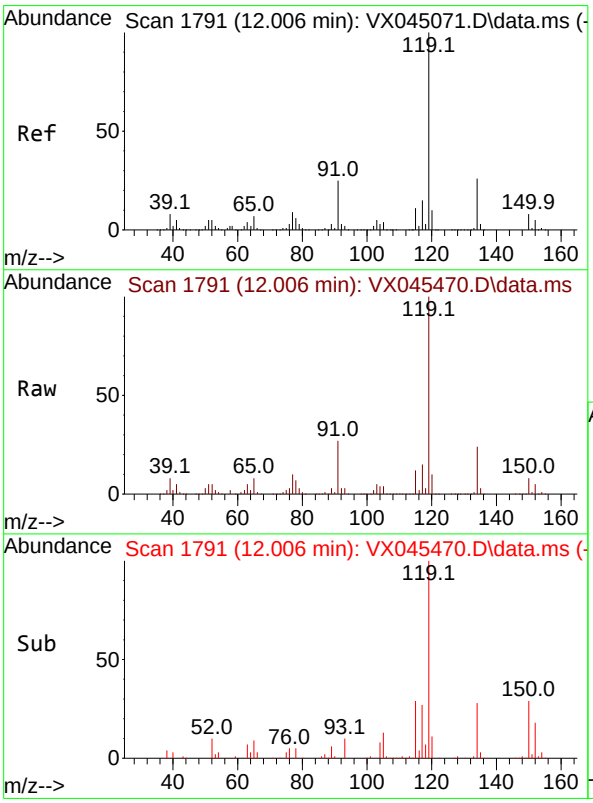
#85
sec-Butylbenzene
Concen: 62.814 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 281972

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4

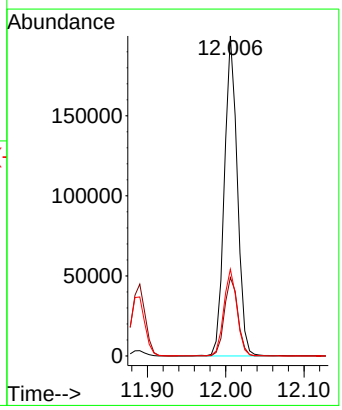


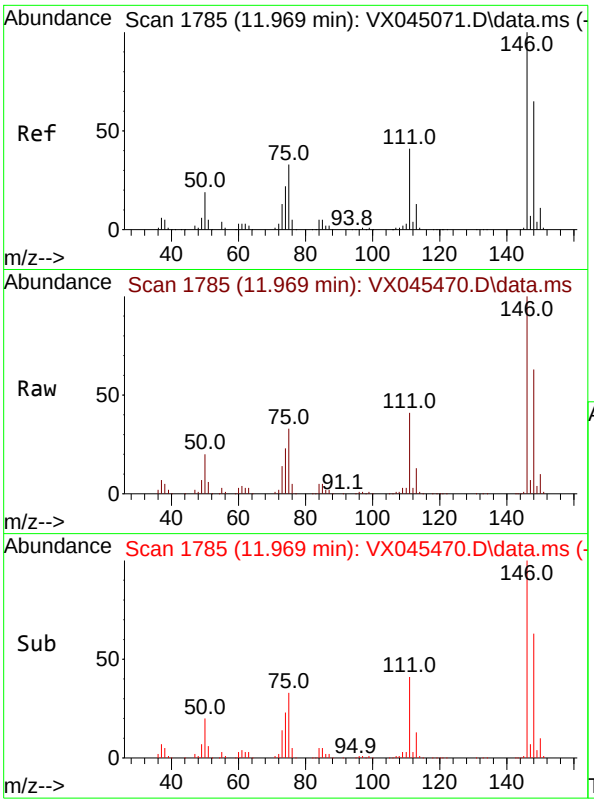


#86
p-Isopropyltoluene
Concen: 63.515 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:119 Resp: 230417

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.9	38.6
91	27.4	12.7	38.0



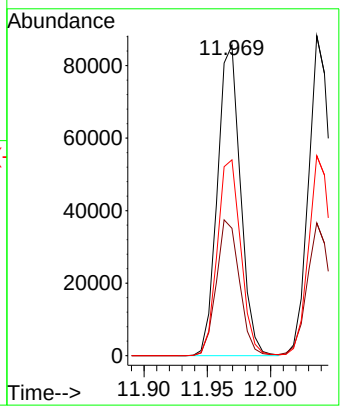


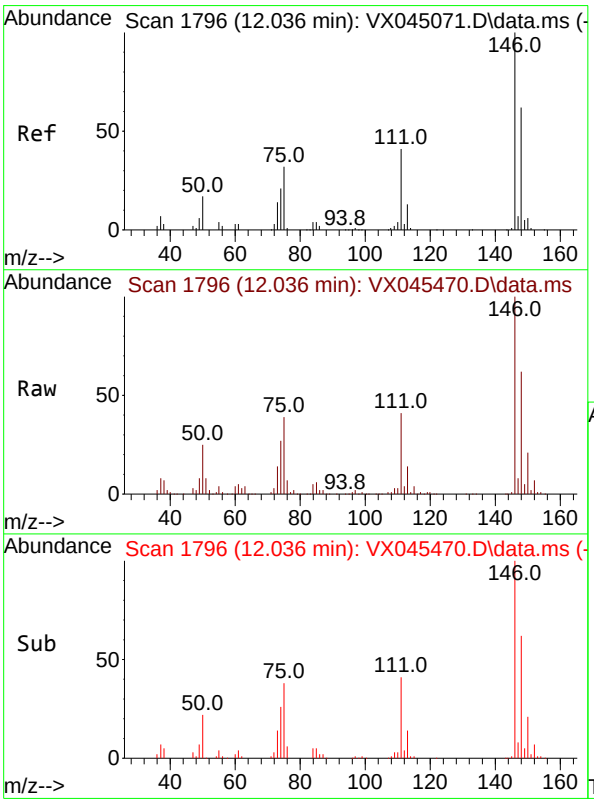
#87
1,3-Dichlorobenzene
Concen: 57.014 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 108247

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.1	63.4
148	64.3	31.9	95.7

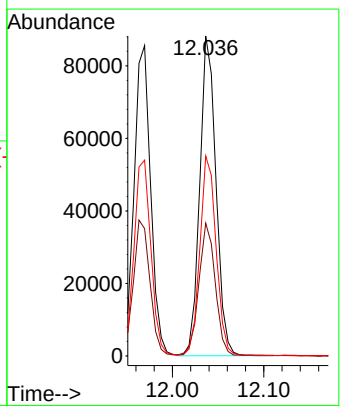


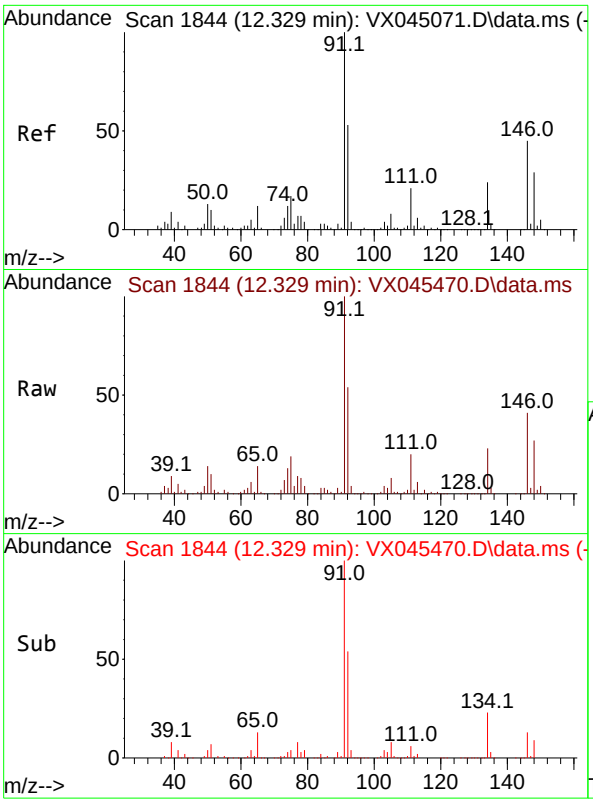


#88
1,4-Dichlorobenzene
Concen: 56.594 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:146 Resp: 108707

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.2	60.5
148	63.5	31.9	95.9



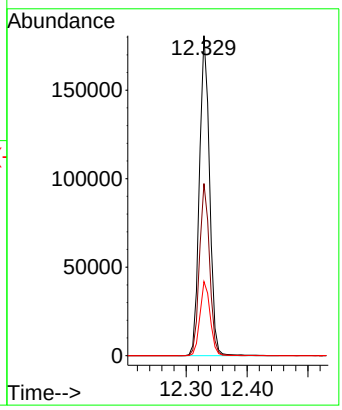


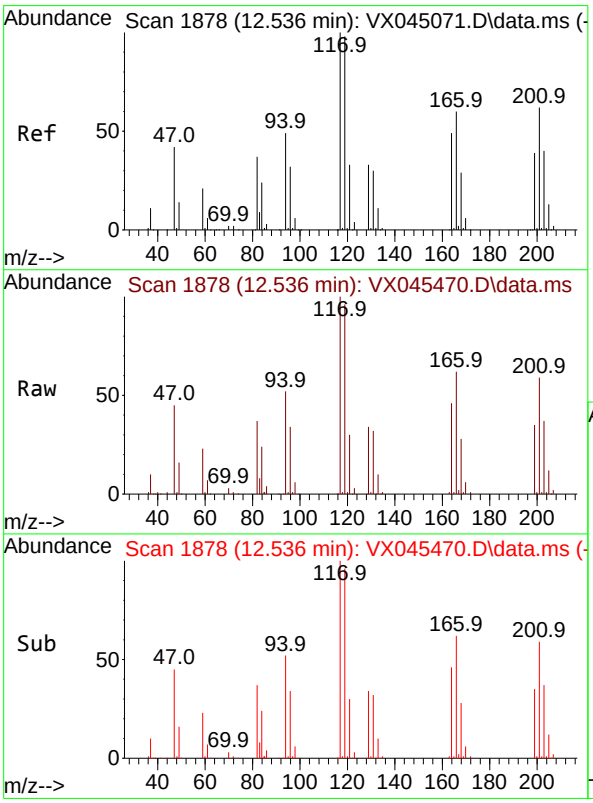
#89
n-Butylbenzene
Concen: 66.812 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 208754

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.7	80.0
134	23.3	12.2	36.6

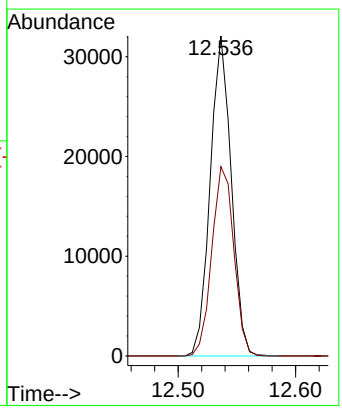


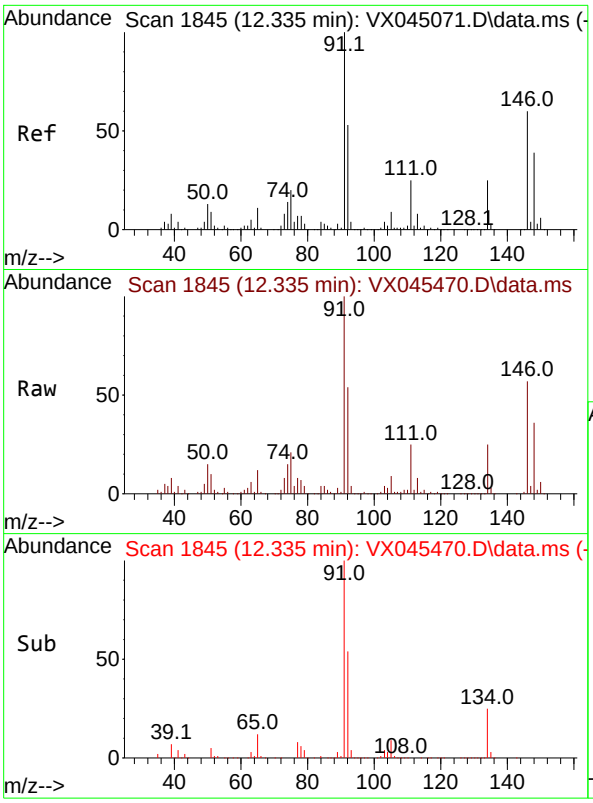


#90
Hexachloroethane
Concen: 60.711 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:117 Resp: 39837

Ion	Ratio	Lower	Upper
117	100		
201	62.1	31.9	95.9



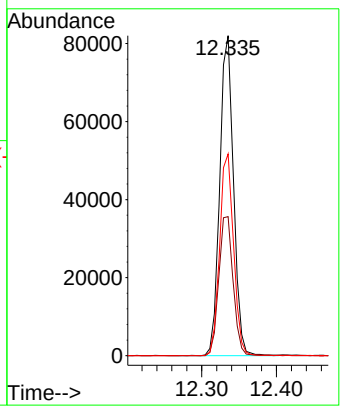


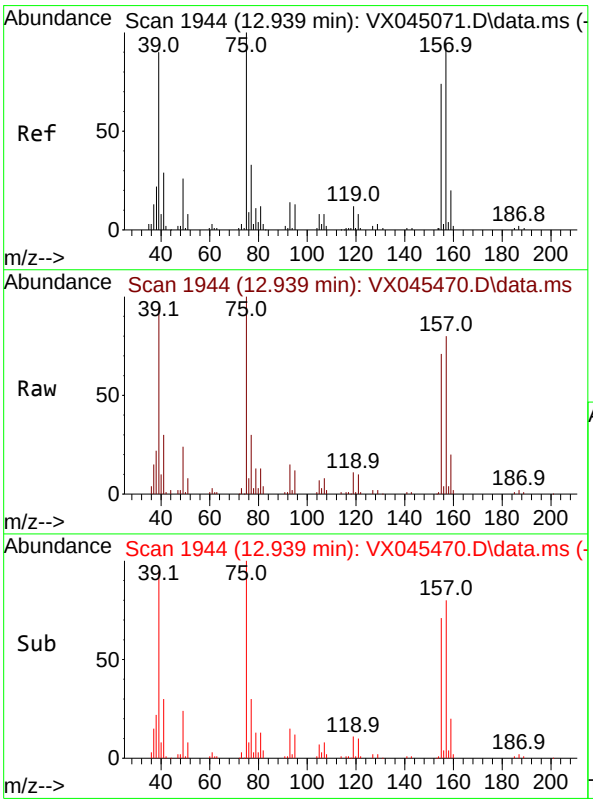
#91
1,2-Dichlorobenzene
Concen: 55.113 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 104966

Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.6	65.0
148	63.8	31.9	95.9

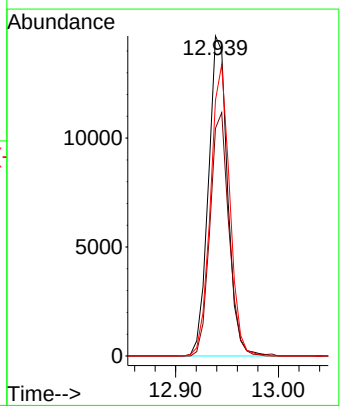


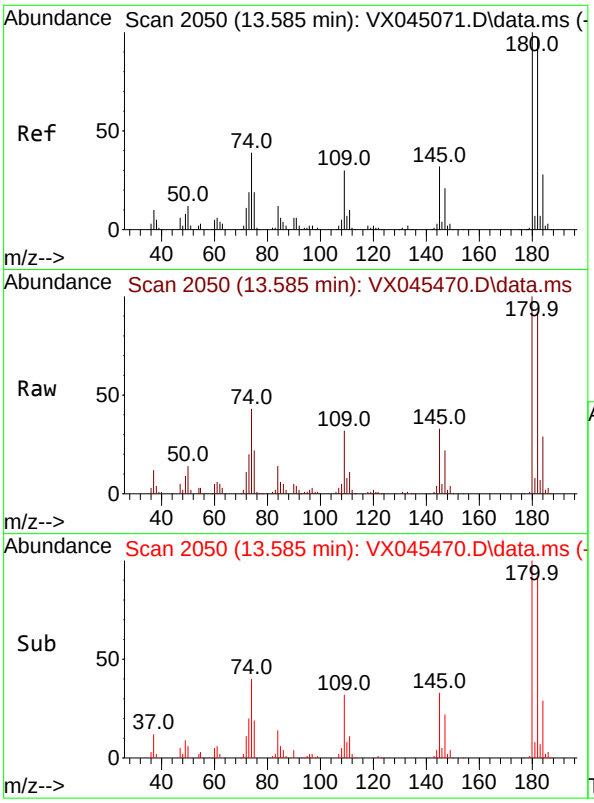


#92
1,2-Dibromo-3-Chloropropane
Concen: 59.027 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 19035

Ion	Ratio	Lower	Upper
75	100		
155	74.9	39.6	118.7
157	90.8	51.1	153.4



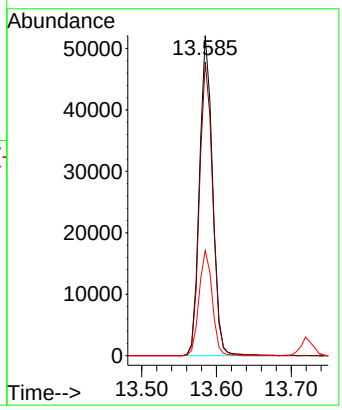


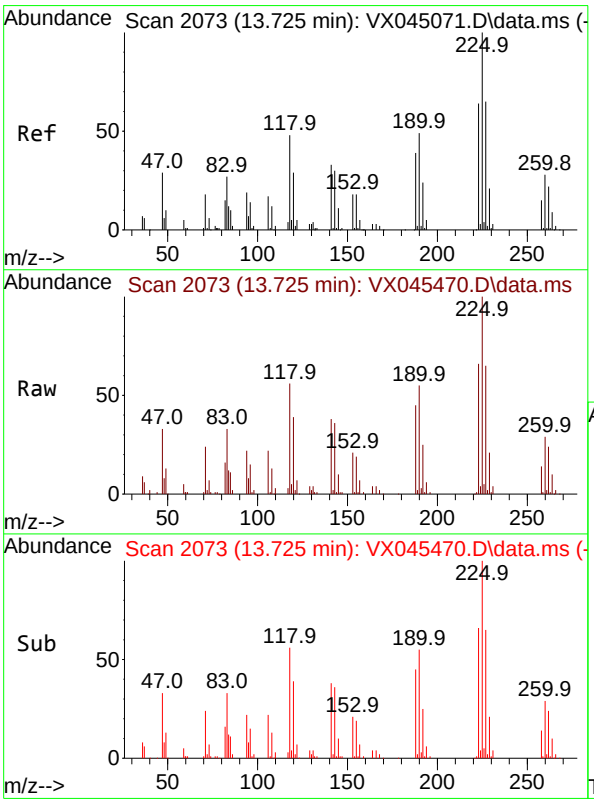
#93
1,2,4-Trichlorobenzene
Concen: 58.168 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 63082

Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.3	141.9
145	33.0	16.3	48.9

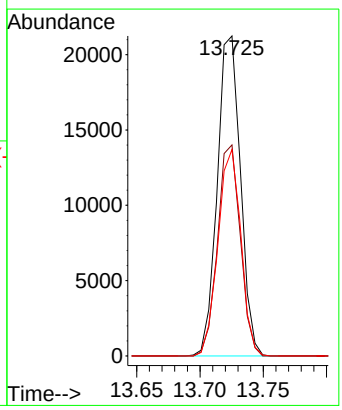


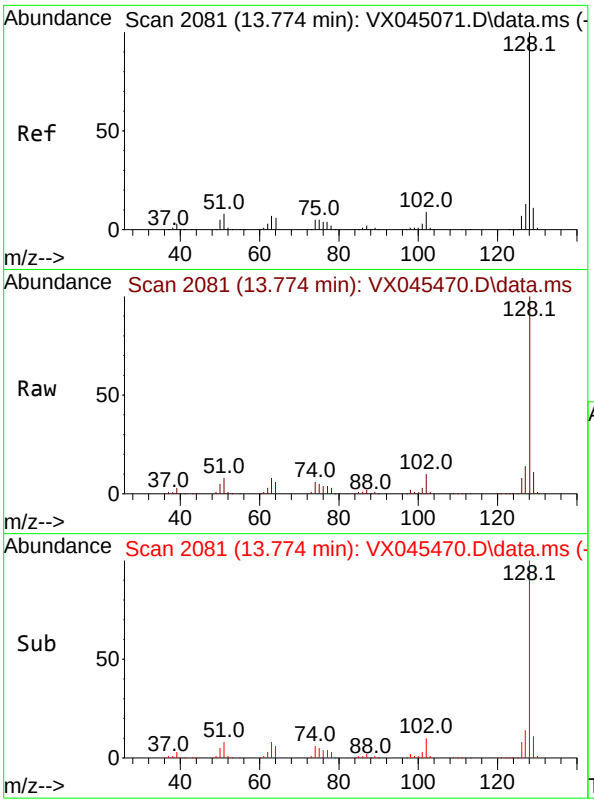


#94
Hexachlorobutadiene
Concen: 60.796 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:225 Resp: 27031

Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.9	95.7
227	63.7	31.4	94.0



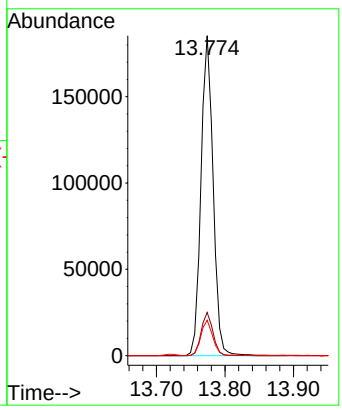


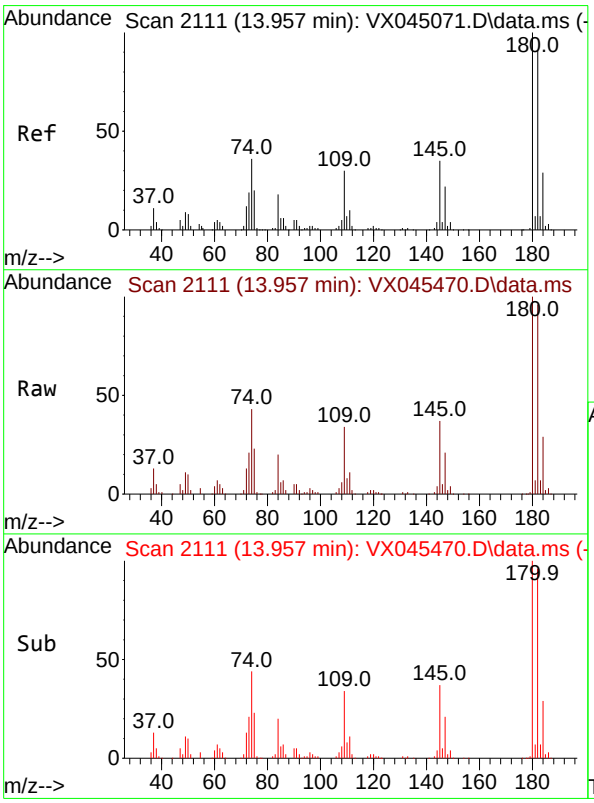
#95
Naphthalene
Concen: 54.873 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 228638

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.9	8.7	13.1





#96
1,2,3-Trichlorobenzene
Concen: 55.317 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045470.D
Acq: 26 Mar 2025 15:35

Tgt Ion:180 Resp: 63287

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.6
145	36.8	17.0	50.9