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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q3141

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q3141

1) VOLATILES DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 12
9) QC Data Summary For VOC-TCLVOA-10 14
- 9.1) Deuterated Monitoring Compound Summary 15
- 9.2) LCS/LCSD Summary 16
- 9.3) Method Blank Summary 22
- 9.4) GS/MS Tune Summary 24
- 9.5) Internal Standard Area and RT Summary 27

10) Sample Data 31
- 10.1) BP-VPB-184-TB-20250917 32
- 10.2) BP-VPB-184-EB-20250918 45
- 10.3) BP-VPB-184-GW-60-62 60
- 10.4) BP-VPB-184-GW-100-102 77
- 10.5) BP-VPB-184-GW-150-152 94
- 10.6) BP-VPB-184-GW-200-202 109
- 10.7) BP-VPB-184-GW-220-222 123

11) Calibration Data Summary 137
- 11.1) Initial Calibration Data 138
  - 11.1.1) VX091625 138
- 11.2) Continued Calibration Data 508
  - 11.2.1) VX047719.D 508
  - 11.2.2) VX047744.D 568
  - 11.2.3) VX047746.D 628
  - 11.2.4) VX047767.D 688

12) QC Sample Data 748
- 12.1) Tune Raw Data 749
- 12.2) Method Blank Data 752
- 12.3) LCS Data 778
- 12.4) LCSD Data 888

13) Manual Integration 943
14) Analytical Runlogs 945
15) Standard Prep Logs 953
16) Shipping Document 1041
16.1) Chain Of Custody 1042
16.2) Lab Certificate 1043
16.3) Internal COC 1044
17) Not Reviewed Data 1046

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

Cover Page

Order ID : Q3141

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q3141-01	BP-VPB-184-TB-20250917
Q3141-02	BP-VPB-184-EB-20250918
Q3141-03	BP-VPB-184-GW-60-62
Q3141-04	BP-VPB-184-GW-100-102
Q3141-05	BP-VPB-184-GW-150-152
Q3141-06	BP-VPB-184-GW-200-202
Q3141-07	BP-VPB-184-GW-220-222

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 : _____

Date: 9/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Order ID # Q3141
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
7 Water samples were received on 09/18/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID VX047719.D met the requirements except for Bromomethane,Dichlorodifluoromethane and Vinyl Chloride failing high but no positive hit in associated samples therefore no corrective action taken.

The Continuous Calibration File ID VX047746.D met the requirements except for Dichlorodifluoromethane failing high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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

The Sample #BP-VPB-184-GW-150-152, BP-VPB-184-GW-200-202 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The not QT review data is reported in the Miscellaneous.

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

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_____

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

ORDER ID: Q3141 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 VX047719.D met the requirements except for Bromomethane, Dichlorodifluoromethane and Vinyl Chloride failing high but no positive hit in associated samples therefore no corrective action taken. The Continuous Calibration File ID VX047746.D met the requirements except for Dichlorodifluoromethane failing high but no positive hit in associated 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.			✓
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 Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds.			✓
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:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The Sample #BP-VPB-184-GW-150-152, BP-VPB-184-GW-200-202 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The not QT review data is reported in the Miscellaneous.

_____ _____

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 #: Q3141

	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: SOHIL JODHANI **Date:** 09/30/2025

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

LAB CHRONICLE

OrderID:	Q3141	**OrderDate:**	9/18/2025 3:41:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	J11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3141-01	**BP-VPB-184-TB-20250917**	**Water**			**09/17/25**			**09/18/25**
			VOC-TCLVOA-10	8260-Low			09/23/25	
Q3141-02	**BP-VPB-184-EB-20250918**	**Water**			**09/18/25**			**09/18/25**
			VOC-TCLVOA-10	8260-Low			09/24/25	
Q3141-03	**BP-VPB-184-GW-60-62**	**Water**			**09/17/25**			**09/18/25**
			VOC-TCLVOA-10	8260-Low			09/23/25	
Q3141-04	**BP-VPB-184-GW-100-102**	**Water**			**09/17/25**			**09/18/25**
			VOC-TCLVOA-10	8260-Low			09/24/25	
Q3141-05	**BP-VPB-184-GW-150-152**	**Water**			**09/18/25**			**09/18/25**
			VOC-TCLVOA-10	8260-Low			09/23/25	
Q3141-06	**BP-VPB-184-GW-200-202**	**Water**			**09/18/25**			**09/18/25**
			VOC-TCLVOA-10	8260-Low			09/23/25	
Q3141-07	**BP-VPB-184-GW-220-222**	**Water**			**09/18/25**			**09/18/25**
			VOC-TCLVOA-10	8260-Low			09/23/25	

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.: Q3141

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BP-VPB-184-EB-20250918**								
Q3141-02	BP-VPB-184-EB-20	Water	Acetone	64.5		1.50	3.80	5.00	ug/L
Q3141-02	BP-VPB-184-EB-20	Water	2-Butanone	7.80		0.98	2.50	5.00	ug/L
			Total Voc :	72.3					
			Total Concentration:	72.3					
Client ID:	**BP-VPB-184-GW-60-62**								
Q3141-03	BP-VPB-184-GW-6	Water	Chloromethane	0.35	J	0.32	0.50	1.00	ug/L
Q3141-03	BP-VPB-184-GW-6	Water	Acetone	10.6		1.50	3.80	5.00	ug/L
Q3141-03	BP-VPB-184-GW-6	Water	2-Butanone	2.90	J	0.98	2.50	5.00	ug/L
Q3141-03	BP-VPB-184-GW-6	Water	Chloroform	1.60		0.25	0.50	1.00	ug/L
Q3141-03	BP-VPB-184-GW-6	Water	Benzene	0.76	J	0.15	0.50	1.00	ug/L
Q3141-03	BP-VPB-184-GW-6	Water	Toluene	0.39	J	0.14	0.50	1.00	ug/L
Q3141-03	BP-VPB-184-GW-6	Water	Dibromochloromethane	0.36	J	0.18	0.50	1.00	ug/L
Q3141-03	BP-VPB-184-GW-6	Water	Chlorobenzene	0.28	J	0.12	0.50	1.00	ug/L
			Total Voc :	17.2					
			Total Concentration:	17.2					
Client ID:	**BP-VPB-184-GW-100-102**								
Q3141-04	BP-VPB-184-GW-1	Water	Acetone	10.9		1.50	3.80	5.00	ug/L
Q3141-04	BP-VPB-184-GW-1	Water	Chloroform	0.67	J	0.25	0.50	1.00	ug/L
Q3141-04	BP-VPB-184-GW-1	Water	Trichloroethene	0.94	J	0.090	0.75	1.00	ug/L
Q3141-04	BP-VPB-184-GW-1	Water	Bromodichloromethane	0.35	J	0.22	0.50	1.00	ug/L
Q3141-04	BP-VPB-184-GW-1	Water	Toluene	0.34	J	0.14	0.50	1.00	ug/L
Q3141-04	BP-VPB-184-GW-1	Water	Dibromochloromethane	0.45	J	0.18	0.50	1.00	ug/L
Q3141-04	BP-VPB-184-GW-1	Water	Tetrachloroethene	0.26	J	0.23	0.50	1.00	ug/L
			Total Voc :	13.9					
			Total Concentration:	13.9					
Client ID:	**BP-VPB-184-GW-150-152**								
Q3141-05	BP-VPB-184-GW-1	Water	Acetone	6.40		1.50	3.80	5.00	ug/L
Q3141-05	BP-VPB-184-GW-1	Water	Carbon Disulfide	0.37	J	0.21	0.75	1.00	ug/L
Q3141-05	BP-VPB-184-GW-1	Water	Benzene	0.60	J	0.15	0.50	1.00	ug/L
			Total Voc :	7.37					
			Total Concentration:	7.37					
Client ID:	**BP-VPB-184-GW-200-202**								
Q3141-06	BP-VPB-184-GW-2	Water	Acetone	10.1		1.50	3.80	5.00	ug/L
			Total Voc :	10.1					
			Total Concentration:	10.1					
Client ID:	**BP-VPB-184-GW-220-222**								
Q3141-07	BP-VPB-184-GW-2	Water	Chloromethane	0.36	J	0.32	0.50	1.00	ug/L
Q3141-07	BP-VPB-184-GW-2	Water	Acetone	7.80		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.: Q3141

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Voc :	8.16					
			Total Concentration:	8.16					

QC SUMMARY

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

Surrogate Summary

SDG No.: Q3141

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3141-01	BP-VPB-184-TB-20250917	1,2-Dichloroethane-d4	50	47.5	95		81	118
		Dibromofluoromethane	50	46.4	93		80	119
		Toluene-d8	50	47.5	95		89	112
		4-Bromofluorobenzene	50	52.1	104		85	114
Q3141-02	BP-VPB-184-EB-20250918	1,2-Dichloroethane-d4	50	53.0	106		81	118
		Dibromofluoromethane	50	51.1	102		80	119
		Toluene-d8	50	49.5	99		89	112
		4-Bromofluorobenzene	50	50.8	102		85	114
Q3141-03	BP-VPB-184-GW-60-62	1,2-Dichloroethane-d4	50	52.5	105		81	118
		Dibromofluoromethane	50	48.6	97		80	119
		Toluene-d8	50	48.3	97		89	112
		4-Bromofluorobenzene	50	55.6	111		85	114
Q3141-04	BP-VPB-184-GW-100-102	1,2-Dichloroethane-d4	50	56.9	114		81	118
		Dibromofluoromethane	50	56.6	113		80	119
		Toluene-d8	50	55.0	110		89	112
		4-Bromofluorobenzene	50	56.3	112		85	114
Q3141-05	BP-VPB-184-GW-150-152	1,2-Dichloroethane-d4	50	50.8	102		81	118
		Dibromofluoromethane	50	48.4	97		80	119
		Toluene-d8	50	48.7	97		89	112
		4-Bromofluorobenzene	50	54.6	109		85	114
Q3141-06	BP-VPB-184-GW-200-202	1,2-Dichloroethane-d4	50	52.0	104		81	118
		Dibromofluoromethane	50	48.4	97		80	119
		Toluene-d8	50	49.3	99		89	112
		4-Bromofluorobenzene	50	54.5	109		85	114
Q3141-07	BP-VPB-184-GW-220-222	1,2-Dichloroethane-d4	50	50.7	101		81	118
		Dibromofluoromethane	50	47.8	96		80	119
		Toluene-d8	50	47.7	95		89	112
		4-Bromofluorobenzene	50	54.0	108		85	114
VX0923WBL01	VX0923WBL01	1,2-Dichloroethane-d4	50	50.6	101		81	118
		Dibromofluoromethane	50	47.7	95		80	119
		Toluene-d8	50	48.0	96		89	112
		4-Bromofluorobenzene	50	56.5	113		85	114
VX0923WBL02	VX0923WBL02	1,2-Dichloroethane-d4	50	51.7	103		81	118
		Dibromofluoromethane	50	50.8	102		80	119
		Toluene-d8	50	50.2	100		89	112
		4-Bromofluorobenzene	50	51.8	103		85	114
VX0923WBS02	VX0923WBS02	1,2-Dichloroethane-d4	50	45.0	90		81	118
		Dibromofluoromethane	50	46.1	92		80	119
		Toluene-d8	50	46.4	93		89	112
		4-Bromofluorobenzene	50	46.8	94		85	114
VX0923WBS03	VX0923WBS03	1,2-Dichloroethane-d4	50	49.0	98		81	118
		Dibromofluoromethane	50	50.7	101		80	119
		Toluene-d8	50	50.6	101		89	112
		4-Bromofluorobenzene	50	51.1	102		85	114
VX0923WBSD0	VX0923WBSD03	1,2-Dichloroethane-d4	50	50.4	101		81	118
		Dibromofluoromethane	50	51.3	103		80	119
		Toluene-d8	50	52.1	104		89	112
		4-Bromofluorobenzene	50	52.1	104		85	114

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.:	**Q3141**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX047723.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS02	Dichlorodifluoromethane	20	19.2	ug/L	96			32	152	
	Chloromethane	20	17.6	ug/L	88			50	139	
	Vinyl chloride	20	17.4	ug/L	87			58	137	
	Bromomethane	20	18.5	ug/L	93			53	141	
	Chloroethane	20	16.5	ug/L	83			60	138	
	Trichlorofluoromethane	20	16.6	ug/L	83			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.1	ug/L	86			70	136	
	1,1-Dichloroethene	20	16.7	ug/L	84			71	131	
	Acetone	100	71.7	ug/L	72			39	160	
	Carbon disulfide	20	17.2	ug/L	86			64	133	
	Methyl tert-butyl Ether	20	16.3	ug/L	81			71	124	
	Methyl Acetate	20	16.6	ug/L	83			56	136	
	Methylene Chloride	20	16.4	ug/L	82			74	124	
	trans-1,2-Dichloroethene	20	17.0	ug/L	85			75	124	
	1,1-Dichloroethane	20	16.5	ug/L	83			77	125	
	Cyclohexane	20	16.7	ug/L	84			71	130	
	2-Butanone	100	78.7	ug/L	79			56	143	
	Carbon Tetrachloride	20	15.9	ug/L	79			72	136	
	cis-1,2-Dichloroethene	20	16.2	ug/L	81			78	123	
	Bromochloromethane	20	16.8	ug/L	84			78	123	
	Chloroform	20	16.6	ug/L	83			79	124	
	1,1,1-Trichloroethane	20	16.4	ug/L	82			74	131	
	Methylcyclohexane	20	17.3	ug/L	86			72	132	
	Benzene	20	16.7	ug/L	84			79	120	
	1,2-Dichloroethane	20	16.5	ug/L	83			73	128	
	Trichloroethene	20	17.5	ug/L	88			79	123	
	1,2-Dichloropropane	20	16.8	ug/L	84			78	122	
	Bromodichloromethane	20	16.6	ug/L	83			79	125	
	4-Methyl-2-Pentanone	100	86.0	ug/L	86			67	130	
	Toluene	20	16.9	ug/L	85			80	121	
	t-1,3-Dichloropropene	20	16.3	ug/L	81			73	127	
	cis-1,3-Dichloropropene	20	16.8	ug/L	84			75	124	
	1,1,2-Trichloroethane	20	17.2	ug/L	86			80	119	
	2-Hexanone	100	83.0	ug/L	83			57	139	
	Dibromochloromethane	20	17.2	ug/L	86			74	126	
	1,2-Dibromoethane	20	17.4	ug/L	87			77	121	
	Tetrachloroethene	20	17.1	ug/L	86			74	129	
	Chlorobenzene	20	16.7	ug/L	84			82	118	
	Ethyl Benzene	20	16.7	ug/L	84			79	121	
	m/p-Xylenes	40	33.9	ug/L	85			80	121	
	o-Xylene	20	16.9	ug/L	85			78	122	
	Styrene	20	16.6	ug/L	83			78	123	
	Bromoform	20	16.6	ug/L	83			66	130	
	Isopropylbenzene	20	16.4	ug/L	82			72	131	
	1,1,2,2-Tetrachloroethane	20	16.6	ug/L	83			71	121	
	1,3-Dichlorobenzene	20	16.9	ug/L	85			80	119	
	1,4-Dichlorobenzene	20	16.6	ug/L	83			79	118	
	1,2-Dichlorobenzene	20	16.7	ug/L	84			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.:	**Q3141**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX047723.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS02	1,2-Dibromo-3-Chloropropane	20	15.2	ug/L	76			62	128	
	1,2,4-Trichlorobenzene	20	16.2	ug/L	81			69	130	
	1,2,3-Trichlorobenzene	20	16.4	ug/L	82			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.:	**Q3141**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX047748.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS03	Dichlorodifluoromethane	20	23.6	ug/L	118			32	152	
	Chloromethane	20	21.7	ug/L	109			50	139	
	Vinyl chloride	20	22.4	ug/L	112			58	137	
	Bromomethane	20	23.5	ug/L	117			53	141	
	Chloroethane	20	21.0	ug/L	105			60	138	
	Trichlorofluoromethane	20	20.9	ug/L	104			65	141	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/L	105			70	136	
	1,1-Dichloroethene	20	21.2	ug/L	106			71	131	
	Acetone	100	87.7	ug/L	88			39	160	
	Carbon disulfide	20	20.9	ug/L	104			64	133	
	Methyl tert-butyl Ether	20	20.6	ug/L	103			71	124	
	Methyl Acetate	20	22.4	ug/L	112			56	136	
	Methylene Chloride	20	20.7	ug/L	104			74	124	
	trans-1,2-Dichloroethene	20	21.4	ug/L	107			75	124	
	1,1-Dichloroethane	20	21.0	ug/L	105			77	125	
	Cyclohexane	20	20.9	ug/L	104			71	130	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	19.7	ug/L	99			72	136	
	cis-1,2-Dichloroethene	20	20.9	ug/L	104			78	123	
	Bromochloromethane	20	19.1	ug/L	96			78	123	
	Chloroform	20	21.3	ug/L	106			79	124	
	1,1,1-Trichloroethane	20	21.2	ug/L	106			74	131	
	Methylcyclohexane	20	20.1	ug/L	101			72	132	
	Benzene	20	20.9	ug/L	104			79	120	
	1,2-Dichloroethane	20	20.4	ug/L	102			73	128	
	Trichloroethene	20	21.3	ug/L	106			79	123	
	1,2-Dichloropropane	20	21.0	ug/L	105			78	122	
	Bromodichloromethane	20	20.7	ug/L	104			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	21.1	ug/L	106			80	121	
	t-1,3-Dichloropropene	20	18.8	ug/L	94			73	127	
	cis-1,3-Dichloropropene	20	19.1	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	21.7	ug/L	109			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	21.2	ug/L	106			74	126	
	1,2-Dibromoethane	20	22.0	ug/L	110			77	121	
	Tetrachloroethene	20	21.4	ug/L	107			74	129	
	Chlorobenzene	20	20.7	ug/L	104			82	118	
	Ethyl Benzene	20	20.8	ug/L	104			79	121	
	m/p-Xylenes	40	42.3	ug/L	106			80	121	
	o-Xylene	20	20.9	ug/L	104			78	122	
	Styrene	20	20.7	ug/L	104			78	123	
	Bromoform	20	20.9	ug/L	104			66	130	
	Isopropylbenzene	20	20.5	ug/L	103			72	131	
	1,1,2,2-Tetrachloroethane	20	21.6	ug/L	108			71	121	
	1,3-Dichlorobenzene	20	20.6	ug/L	103			80	119	
	1,4-Dichlorobenzene	20	20.5	ug/L	103			79	118	
	1,2-Dichlorobenzene	20	20.7	ug/L	104			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.:	**Q3141**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX047748.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS03	1,2-Dibromo-3-Chloropropane	20	20.4	ug/L	102			62	128	
	1,2,4-Trichlorobenzene	20	19.8	ug/L	99			69	130	
	1,2,3-Trichlorobenzene	20	20.7	ug/L	104			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.:	**Q3141**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX047749.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBSD03	Dichlorodifluoromethane	20	19.6	ug/L	98	19		32	152	20
	Chloromethane	20	18.5	ug/L	93	16		50	139	20
	Vinyl chloride	20	18.4	ug/L	92	20		58	137	20
	Bromomethane	20	19.7	ug/L	99	17		53	141	20
	Chloroethane	20	17.6	ug/L	88	18		60	138	20
	Trichlorofluoromethane	20	17.6	ug/L	88	17		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	17.3	ug/L	86	20		70	136	20
	1,1-Dichloroethene	20	18.0	ug/L	90	16		71	131	20
	Acetone	100	75.9	ug/L	76	15		39	160	20
	Carbon disulfide	20	18.0	ug/L	90	14		64	133	20
	Methyl tert-butyl Ether	20	17.5	ug/L	88	16		71	124	20
	Methyl Acetate	20	19.8	ug/L	99	12		56	136	20
	Methylene Chloride	20	17.7	ug/L	89	16		74	124	20
	trans-1,2-Dichloroethene	20	17.8	ug/L	89	18		75	124	20
	1,1-Dichloroethane	20	17.6	ug/L	88	18		77	125	20
	Cyclohexane	20	17.4	ug/L	87	18		71	130	20
	2-Butanone	100	90.8	ug/L	91	19		56	143	20
	Carbon Tetrachloride	20	16.5	ug/L	83	18		72	136	20
	cis-1,2-Dichloroethene	20	17.9	ug/L	90	14		78	123	20
	Bromochloromethane	20	21.7	ug/L	109	13		78	123	20
	Chloroform	20	17.9	ug/L	90	16		79	124	20
	1,1,1-Trichloroethane	20	18.0	ug/L	90	16		74	131	20
	Methylcyclohexane	20	16.6	ug/L	83	20		72	132	20
	Benzene	20	17.7	ug/L	89	16		79	120	20
	1,2-Dichloroethane	20	16.8	ug/L	84	19		73	128	20
	Trichloroethene	20	17.9	ug/L	90	16		79	123	20
	1,2-Dichloropropane	20	17.9	ug/L	90	15		78	122	20
	Bromodichloromethane	20	17.5	ug/L	88	17		79	125	20
	4-Methyl-2-Pentanone	100	96.4	ug/L	96	14		67	130	20
	Toluene	20	17.7	ug/L	89	17		80	121	20
	t-1,3-Dichloropropene	20	16.0	ug/L	80	16		73	127	20
	cis-1,3-Dichloropropene	20	16.0	ug/L	80	18		75	124	20
	1,1,2-Trichloroethane	20	18.2	ug/L	91	18		80	119	20
	2-Hexanone	100	94.0	ug/L	94	16		57	139	20
	Dibromochloromethane	20	18.1	ug/L	91	15		74	126	20
	1,2-Dibromoethane	20	19.1	ug/L	96	14		77	121	20
	Tetrachloroethene	20	18.5	ug/L	93	14		74	129	20
	Chlorobenzene	20	17.7	ug/L	89	16		82	118	20
	Ethyl Benzene	20	17.2	ug/L	86	19		79	121	20
	m/p-Xylenes	40	35.3	ug/L	88	19		80	121	20
	o-Xylene	20	17.5	ug/L	88	17		78	122	20
	Styrene	20	17.5	ug/L	88	17		78	123	20
	Bromoform	20	17.5	ug/L	88	17		66	130	20
	Isopropylbenzene	20	16.9	ug/L	85	19		72	131	20
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93	15		71	121	20
	1,3-Dichlorobenzene	20	17.4	ug/L	87	17		80	119	20
	1,4-Dichlorobenzene	20	17.1	ug/L	86	18		79	118	20
	1,2-Dichlorobenzene	20	17.5	ug/L	88	17		80	119	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.:	**Q3141**	**Analytical Method:**	**SW8260-Low**
Client:	**Tetra Tech NUS, Inc.**	**Datafile :**	VX047749.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBSD03	1,2-Dibromo-3-Chloropropane	20	17.6	ug/L	88	15		62	128	20
	1,2,4-Trichlorobenzene	20	16.4	ug/L	82	19		69	130	20
	1,2,3-Trichlorobenzene	20	17.1	ug/L	86	19		69	129	20

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VX0923WBL01

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3141

Lab File ID: VX047721.D Lab Sample ID: VX0923WBL01

Date Analyzed: 09/23/2025 Time Analyzed: 10:22

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
VX0923WBS02	VX0923WBS02	VX047723.D	09/23/2025
BP-VPB-184-TB-20250917	Q3141-01	VX047725.D	09/23/2025
BP-VPB-184-GW-60-62	Q3141-03	VX047730.D	09/23/2025
BP-VPB-184-GW-150-152	Q3141-05	VX047732.D	09/23/2025
BP-VPB-184-GW-200-202	Q3141-06	VX047733.D	09/23/2025
BP-VPB-184-GW-220-222	Q3141-07	VX047734.D	09/23/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VX0923WBL02

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3141

Lab File ID: VX047747.D Lab Sample ID: VX0923WBL02

Date Analyzed: 09/24/2025 Time Analyzed: 03:11

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
VX0923WBS03	VX0923WBS03	VX047748.D	09/24/2025
VX0923WBSD03	VX0923WBSD03	VX047749.D	09/24/2025
BP-VPB-184-GW-100-102	Q3141-04	VX047760.D	09/24/2025
BP-VPB-184-EB-20250918	Q3141-02	VX047761.D	09/24/2025

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: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3141

Lab File ID: VX047584.D | BFB Injection Date: 09/16/2025

Instrument ID: MSVOA_X | BFB Injection Time: 08:56

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
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	67.3
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	66.3 (98.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX047585.D	09/16/2025	09:23
VSTDICC005	VSTDICC005	VX047586.D	09/16/2025	10:16
VSTDICC020	VSTDICC020	VX047587.D	09/16/2025	10:37
VSTDICCC050	VSTDICCC050	VX047588.D	09/16/2025	10:58
VSTDICC100	VSTDICC100	VX047589.D	09/16/2025	11:40
VSTDICC150	VSTDICC150	VX047590.D	09/16/2025	12:01

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: Alliance
Contract: TETR06
Lab Code: ACE
SDG NO.: Q3141
Lab File ID: VX047718.D
BFB Injection Date: 09/23/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:05
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	19.6
75	30.0 - 60.0% of mass 95	51.5
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	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.3 (7.8) 1
176	95.0 - 101.0% of mass 174	66.3 (97.2) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047719.D	09/23/2025	09:02
VX0923WBL01	VX0923WBL01	VX047721.D	09/23/2025	10:22
VX0923WBS02	VX0923WBS02	VX047723.D	09/23/2025	11:15
BP-VPB-184-TB-20250917	Q3141-01	VX047725.D	09/23/2025	12:22
BP-VPB-184-GW-60-62	Q3141-03	VX047730.D	09/23/2025	14:07
BP-VPB-184-GW-150-152	Q3141-05	VX047732.D	09/23/2025	14:49
BP-VPB-184-GW-200-202	Q3141-06	VX047733.D	09/23/2025	15:10
BP-VPB-184-GW-220-222	Q3141-07	VX047734.D	09/23/2025	15:31
VSTDCCC050EC	VSTDCCC050	VX047744.D	09/23/2025	19:00

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: Alliance
Contract: TETR06
Lab Code: ACE
SDG NO.: Q3141
Lab File ID: VX047745.D
BFB Injection Date: 09/24/2025
Instrument ID: MSVOA_X
BFB Injection Time: 01:30
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	19.9
75	30.0 - 60.0% of mass 95	51.6
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	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	68
175	5.0 - 9.0% of mass 174	5 (7.4) 1
176	95.0 - 101.0% of mass 174	65.9 (97) 1
177	5.0 - 9.0% of mass 176	4.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047746.D	09/24/2025	02:08
VX0923WBL02	VX0923WBL02	VX047747.D	09/24/2025	03:11
VX0923WBS03	VX0923WBS03	VX047748.D	09/24/2025	03:53
VX0923WBSD03	VX0923WBSD03	VX047749.D	09/24/2025	04:14
BP-VPB-184-GW-100-102	Q3141-04	VX047760.D	09/24/2025	08:22
BP-VPB-184-EB-20250918	Q3141-02	VX047761.D	09/24/2025	08:43
VSTDCCC050EC	VSTDCCC050	VX047767.D	09/24/2025	10:50

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3141

Lab File ID: VX047719.D Date Analyzed: 09/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:02

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	145672	5.53	265022	6.74	235703	10.04
UPPER LIMIT	291344	6.031	530044	7.239	471406	10.537
LOWER LIMIT	72836	5.031	132511	6.239	117852	9.537
EPA SAMPLE NO.						
BP-VPB-184-TB-20250917	131211	5.54	272690	6.75	268706	10.04
BP-VPB-184-GW-60-62	141797	5.54	298818	6.75	301046	10.04
BP-VPB-184-GW-150-152	145260	5.54	301134	6.75	306124	10.04
BP-VPB-184-GW-200-202	141844	5.54	300954	6.75	298268	10.04
BP-VPB-184-GW-220-222	147065	5.54	305643	6.75	308233	10.04
VX0923WBL01	119065	5.53	248954	6.74	254277	10.04
VX0923WBS02	181787	5.53	322664	6.75	289792	10.04

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: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3141

Lab File ID: VX047719.D Date Analyzed: 09/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:02

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

	IS4 AREA #	RT #				
12 HOUR STD	115061	12.006				
UPPER LIMIT	230122	12.506				
LOWER LIMIT	57530.5	11.506				
EPA SAMPLE NO.						
BP-VPB-184-TB-20250917	128339	12.01				
BP-VPB-184-GW-60-62	155521	12.01				
BP-VPB-184-GW-150-152	153459	12.01				
BP-VPB-184-GW-200-202	146402	12.01				
BP-VPB-184-GW-220-222	157643	12.01				
VX0923WBL01	132951	12.01				
VX0923WBS02	141661	12.01				

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: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3141

Lab File ID: VX047746.D Date Analyzed: 09/24/2025

Instrument ID: MSVOA_X Time Analyzed: 02:08

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	166745	5.53	290663	6.74	252770	10.04
UPPER LIMIT	333490	6.032	581326	7.239	505540	10.537
LOWER LIMIT	83372.5	5.032	145332	6.239	126385	9.537
EPA SAMPLE NO.						
BP-VPB-184-EB-20250918	157285	5.54	293648	6.75	269079	10.04
BP-VPB-184-GW-100-102	165497	5.54	300349	6.75	276860	10.04
VX0923WBL02	197095	5.54	377977	6.75	356070	10.04
VX0923WBS03	156932	5.54	284011	6.75	253957	10.04
VX0923WBSD03	154222	5.54	281988	6.75	254297	10.04

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: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3141

Lab File ID: VX047746.D Date Analyzed: 09/24/2025

Instrument ID: MSVOA_X Time Analyzed: 02:08

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

	IS4 AREA #	RT #				
12 HOUR STD	121948	12.006				
UPPER LIMIT	243896	12.506				
LOWER LIMIT	60974	11.506				
EPA SAMPLE NO.						
BP-VPB-184-EB-20250918	126784	12.01				
BP-VPB-184-GW-100-102	136496	12.01				
VX0923WBL02	171478	12.01				
VX0923WBS03	123765	12.01				
VX0923WBSD03	124629	12.01				

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:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-TB-20250917	SDG No.:	Q3141
Lab Sample ID:	Q3141-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047725.D	1	09/23/25 12:22	VX092325

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:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-TB-20250917	SDG No.:	Q3141
Lab Sample ID:	Q3141-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047725.D	1	09/23/25 12:22	VX092325

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	47.5		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	47.5		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	131000	5.538				
540-36-3	1,4-Difluorobenzene	273000	6.745				
3114-55-4	Chlorobenzene-d5	269000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	128000	12.006				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-TB-20250917	SDG No.:	Q3141
Lab Sample ID:	Q3141-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047725.D	1	09/23/25 12:22	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-43-4	Dichlorofluoromethane	N.D					

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\VX092325\
Data File : VX047725.D
Acq On : 23 Sep 2025 12:22
Operator : JC/MD
Sample : Q3141-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Quant Time: Sep 24 01:29:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

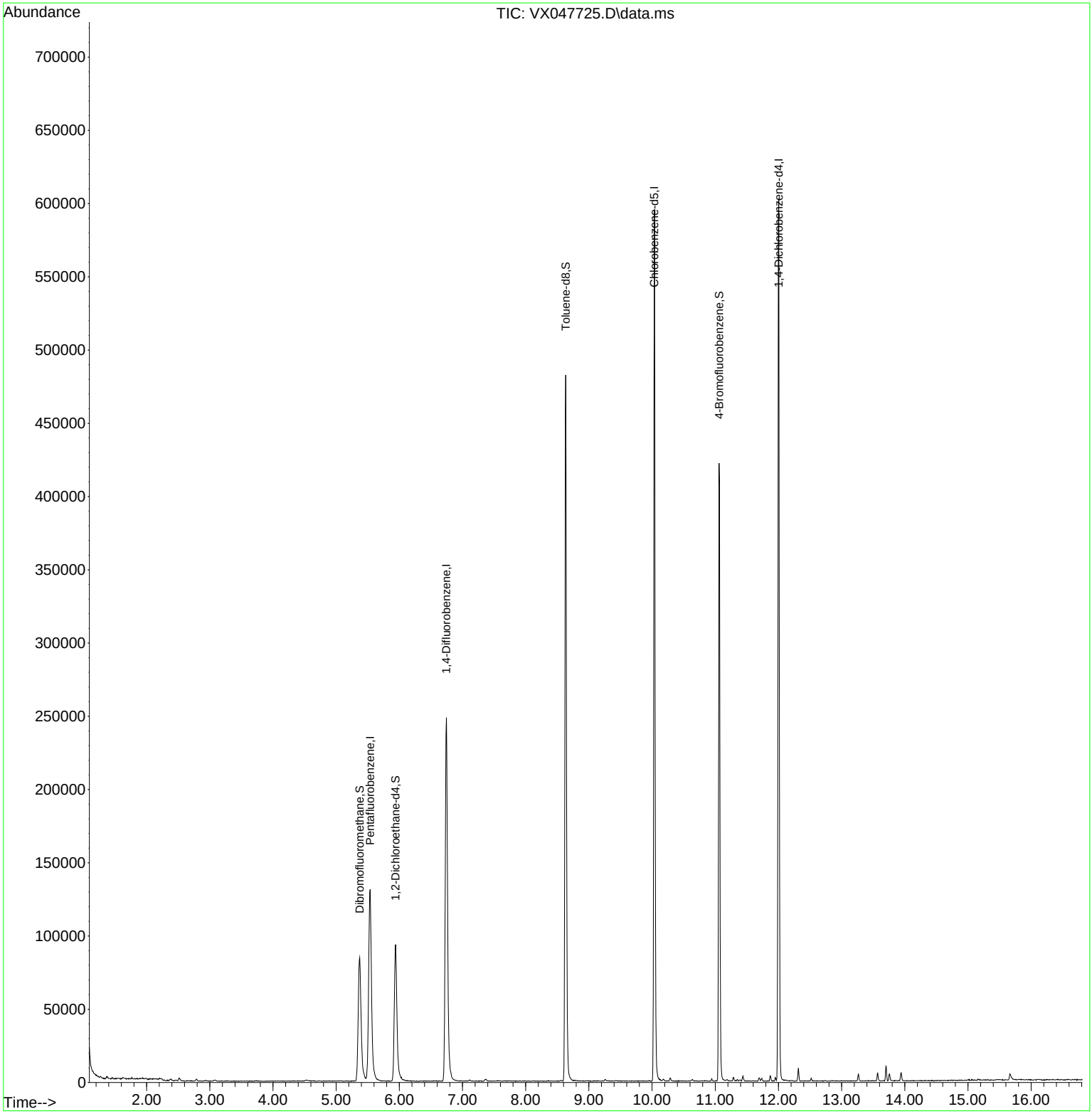
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	131211	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	272690	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	268706	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	128339	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	99105	47.452	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 94.900%			
35) Dibromofluoromethane	5.373	113	84932	46.441	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.880%			
50) Toluene-d8	8.635	98	300857	47.543	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.080%			
62) 4-Bromofluorobenzene	11.061	95	125146	52.109	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.220%			
Target Compounds						Qvalue

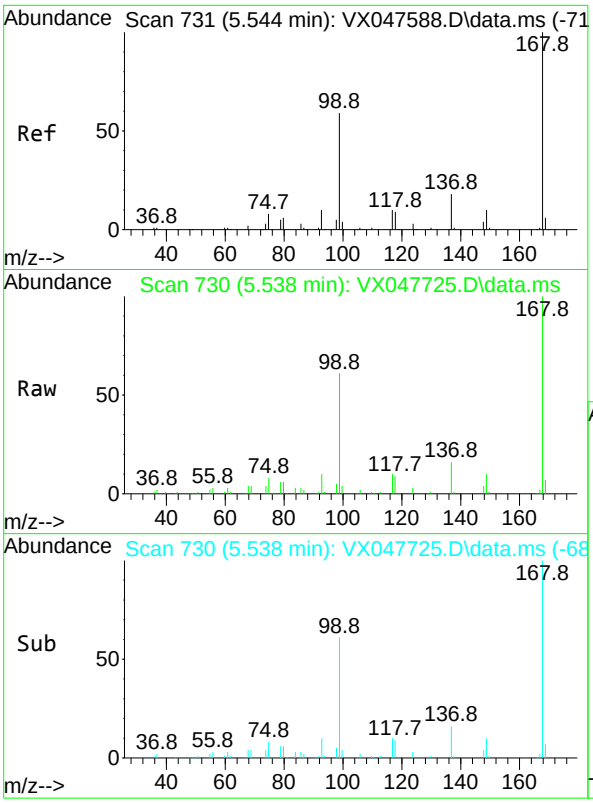
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047725.D
Acq On : 23 Sep 2025 12:22
Operator : JC/MD
Sample : Q3141-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Quant Time: Sep 24 01:29:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



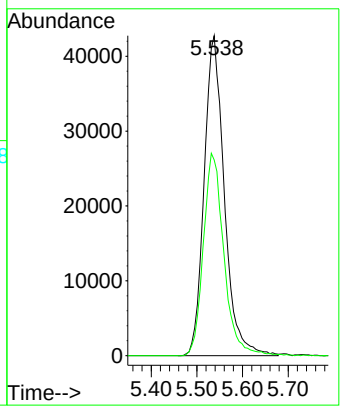


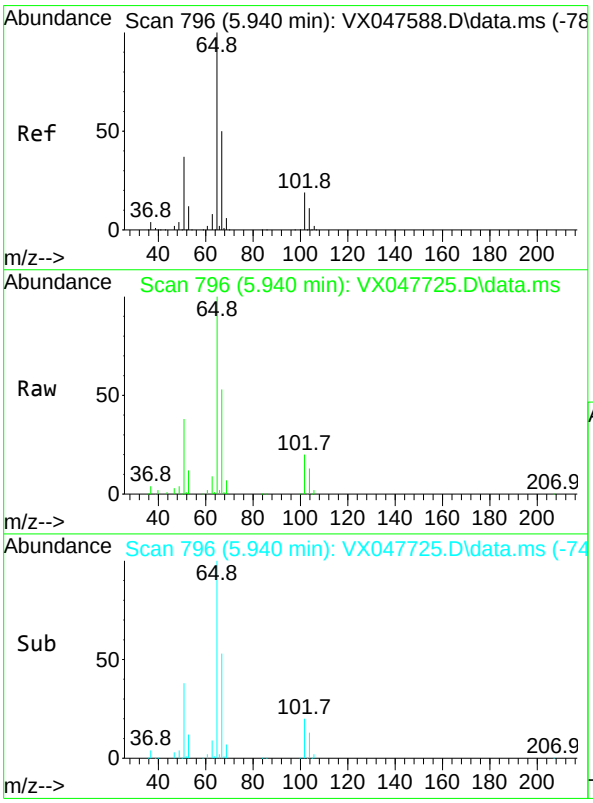
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Tgt Ion:168 Resp: 131211

Ion	Ratio	Lower	Upper
168	100		
99	61.1	48.8	73.2

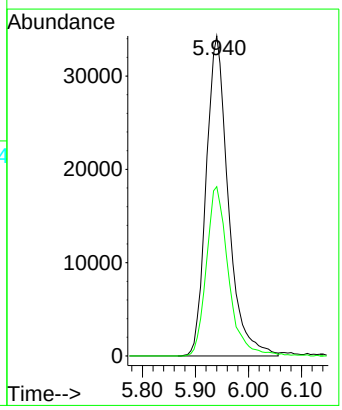


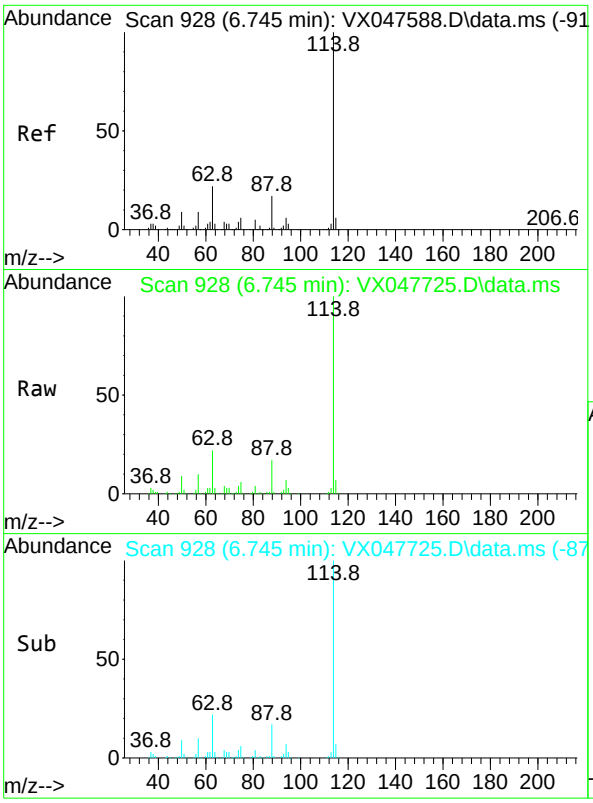


#33
1,2-Dichloroethane-d4
Concen: 47.452 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Tgt Ion: 65 Resp: 99105

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	103.0



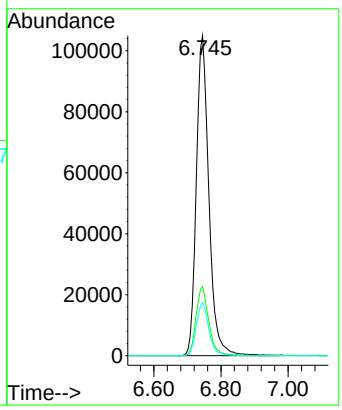


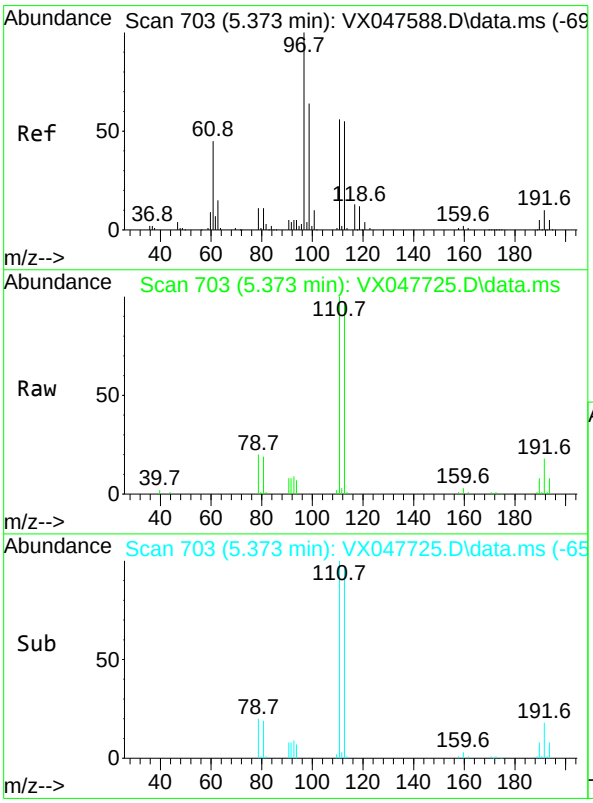
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Tgt Ion:114 Resp: 272690

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	44.0
88	16.6	0.0	34.2

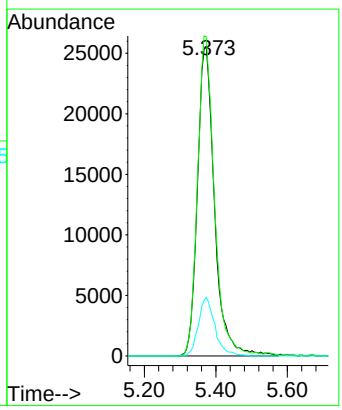


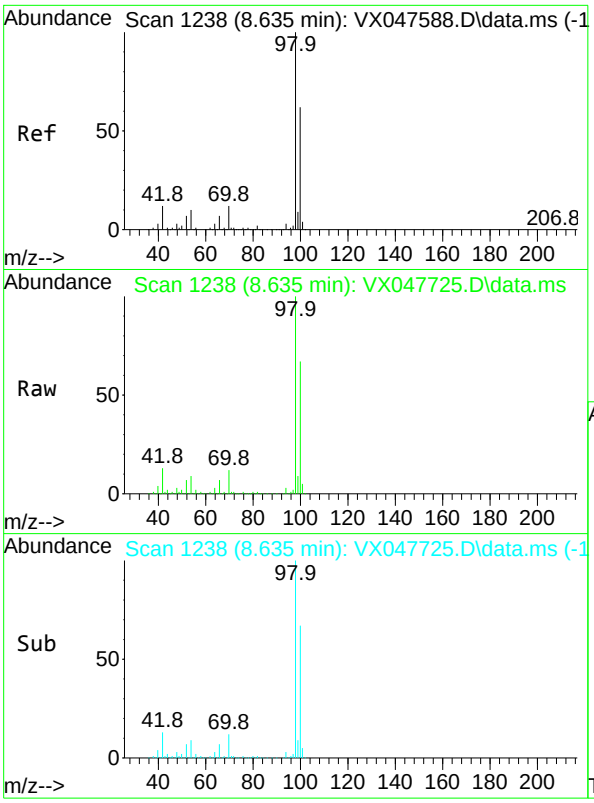


#35
Dibromofluoromethane
Concen: 46.441 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Tgt Ion:113 Resp: 84932

Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.9	121.3
192	18.3	14.2	21.4



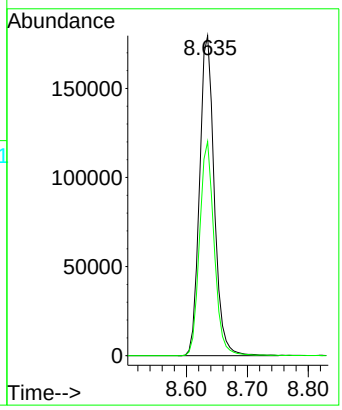


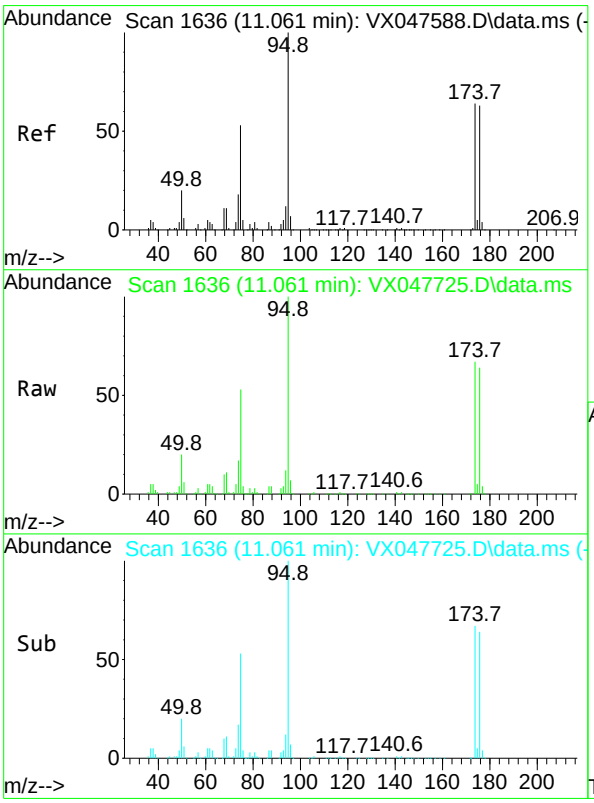
#50
Toluene-d8
Concen: 47.543 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Tgt Ion: 98 Resp: 300857

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4

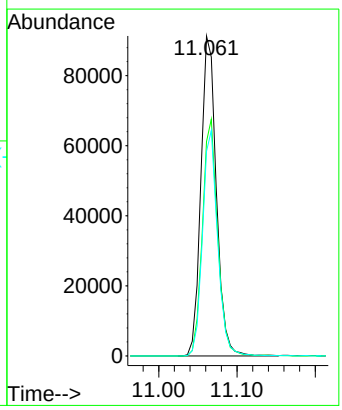


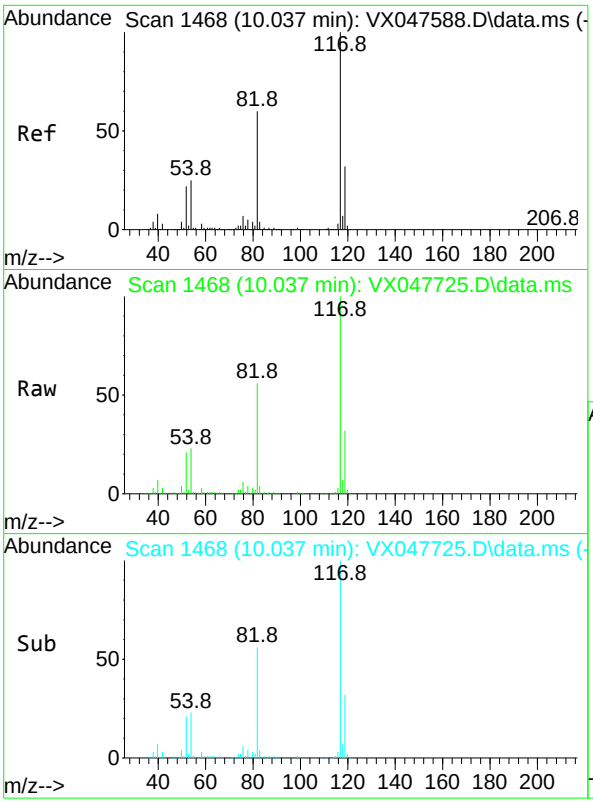


#62
4-Bromofluorobenzene
Concen: 52.109 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Tgt Ion: 95 Resp: 125146

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	68.7	0.0	138.4



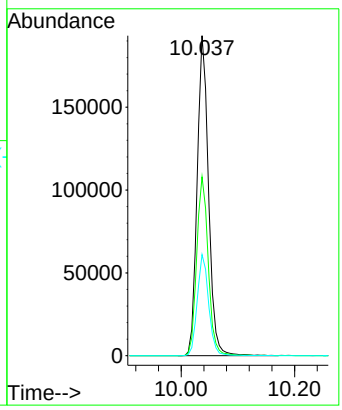


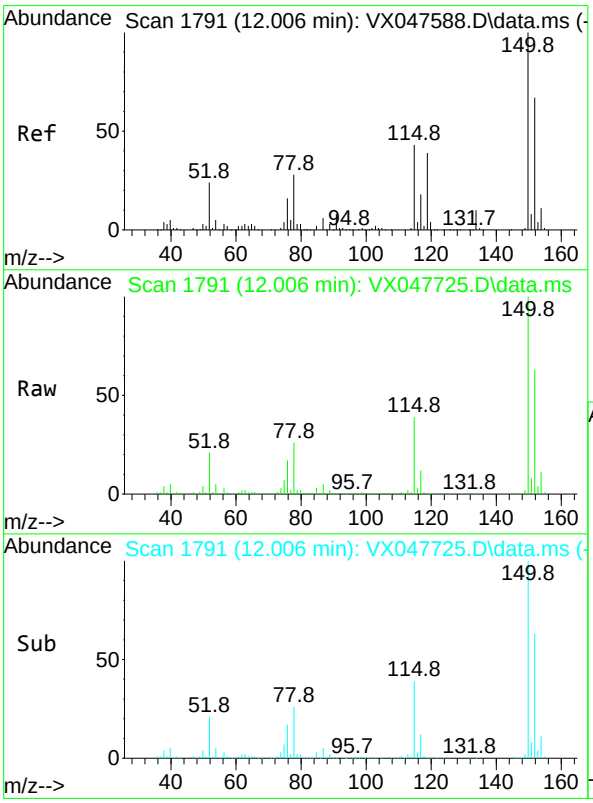
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Tgt Ion:117 Resp: 268706

Ion	Ratio	Lower	Upper
117	100		
82	55.9	47.8	71.6
119	31.6	25.2	37.8

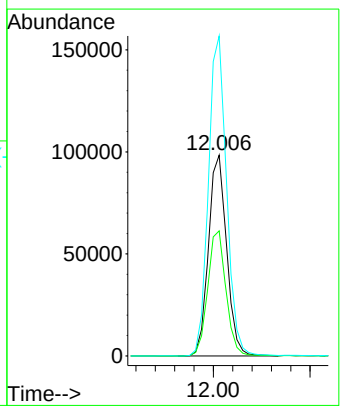




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047725.D
Acq: 23 Sep 2025 12:22

Tgt Ion:152 Resp: 128339

Ion	Ratio	Lower	Upper
152	100		
115	62.7	44.9	134.5
150	159.0	0.0	352.0



Sample Results: **VX047725.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047725.D
Acq On : 23 Sep 2025 12:22
Operator : JC/MD
Sample : Q3141-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047725.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.373	692	703	719	rBV2	84255	273209	32.74%	5.849%
2	5.538	719	730	750	rVB	130178	402697	48.25%	8.621%
3	5.940	786	796	815	rBV2	93062	270480	32.41%	5.790%
4	6.745	918	928	949	rBV	248193	645688	77.36%	13.823%
5	8.635	1231	1238	1257	rBV	482062	815378	97.70%	17.456%
6	10.037	1462	1468	1483	rBV	594951	834600	100.00%	17.867%
7	11.061	1631	1636	1647	rBV	421767	585910	70.20%	12.543%
8	12.006	1785	1791	1801	rBV	601838	811999	97.29%	17.383%
9	12.317	1836	1842	1847	rBV2	8865	10637	1.27%	0.228%
10	13.701	2066	2069	2074	rVB3	10008	12052	1.44%	0.258%
11	15.664	2387	2391	2399	rBV7	4148	8453	1.01%	0.181%

Sum of corrected areas: 4671103

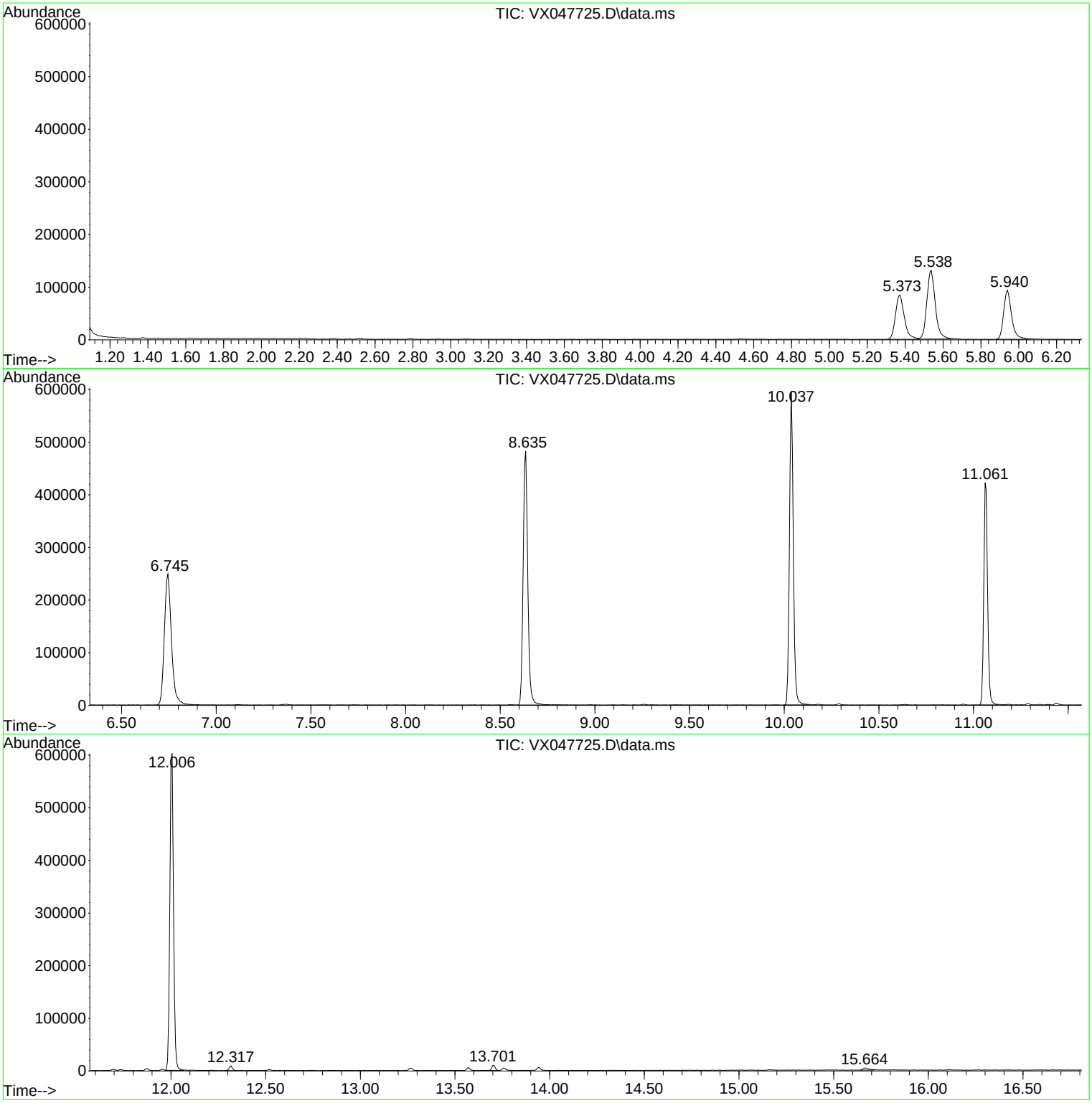
Sample Results: **VX047725.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047725.D
Acq On : 23 Sep 2025 12:22
Operator : JC/MD
Sample : Q3141-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047725.D
Acq On : 23 Sep 2025 12:22
Operator : JC/MD
Sample : Q3141-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047725.D
Acq On : 23 Sep 2025 12:22
Operator : JC/MD
Sample : Q3141-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-TB-20250917

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-EB-20250918	SDG No.:	Q3141
Lab Sample ID:	Q3141-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047761.D	1	09/24/25 08:43	VX092325

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	64.5		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	7.80		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:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-EB-20250918	SDG No.:	Q3141
Lab Sample ID:	Q3141-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047761.D	1	09/24/25 08:43	VX092325

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	52.9		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	157000	5.538				
540-36-3	1,4-Difluorobenzene	294000	6.751				
3114-55-4	Chlorobenzene-d5	269000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	127000	12.006				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-EB-20250918	SDG No.:	Q3141
Lab Sample ID:	Q3141-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047761.D	1	09/24/25 08:43	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-43-4	Dichlorofluoromethane	N.D					

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\VX092325\
Data File : VX047761.D
Acq On : 24 Sep 2025 08:43
Operator : JC/MD
Sample : Q3141-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Quant Time: Sep 24 09:04:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

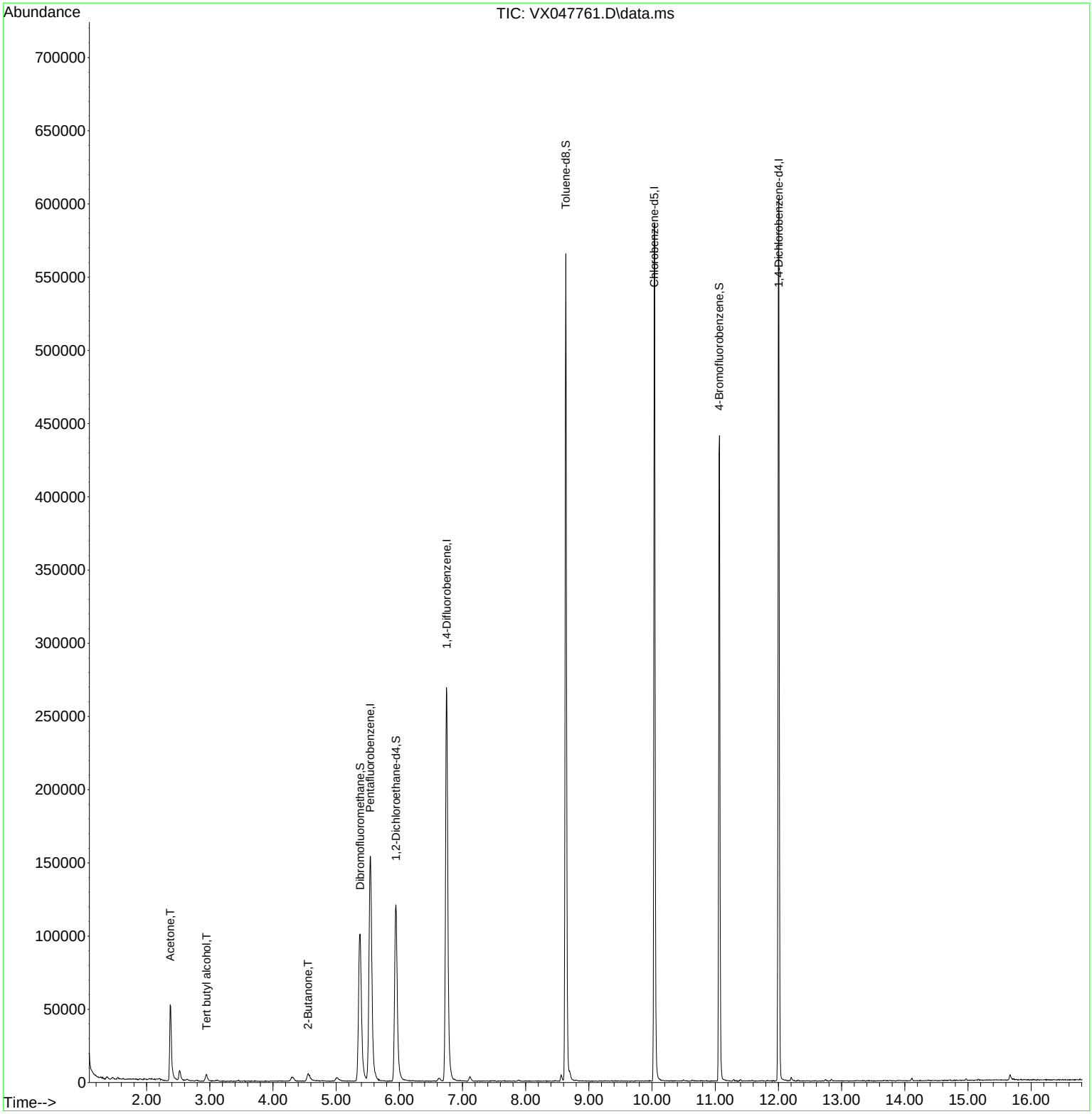
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	157285	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	293648	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	269079	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	126784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	132556	52.947	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.900%			
35) Dibromofluoromethane	5.379	113	100689	51.128	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.260%			
50) Toluene-d8	8.635	98	337096	49.468	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.940%			
62) 4-Bromofluorobenzene	11.061	95	131474	50.837	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.680%			
Target Compounds						Qvalue
11) Tert butyl alcohol	2.947	59	5373	19.270	ug/l	99
16) Acetone	2.374	43	70220	64.507	ug/l	94
25) 2-Butanone	4.556	43	10584	7.795	ug/l	93

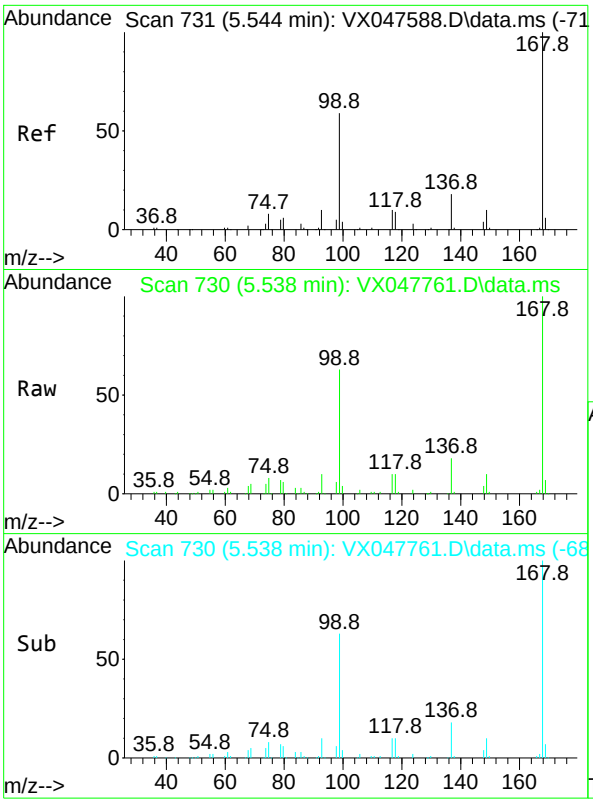
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047761.D
Acq On : 24 Sep 2025 08:43
Operator : JC/MD
Sample : Q3141-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Quant Time: Sep 24 09:04:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



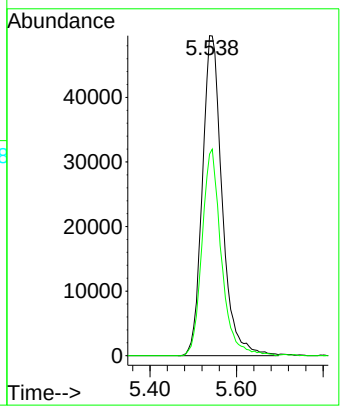


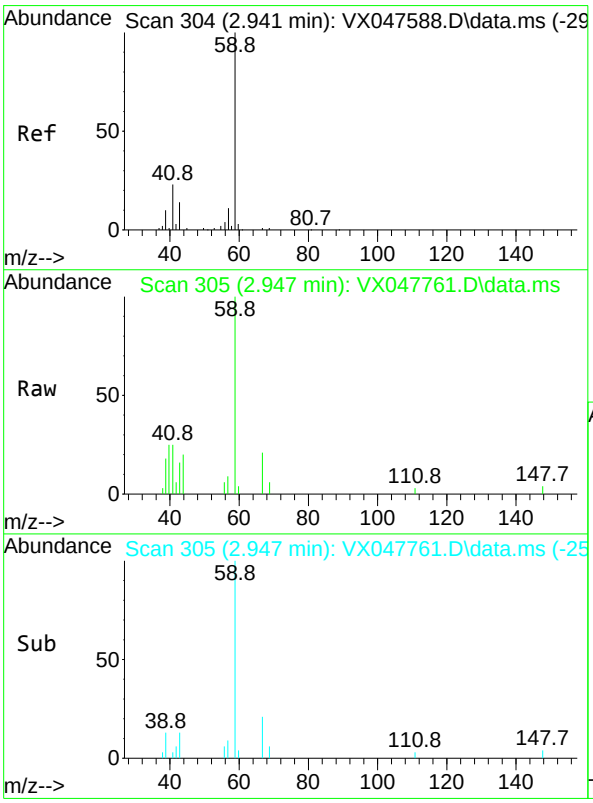
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Tgt Ion:168 Resp: 157285

Ion	Ratio	Lower	Upper
168	100		
99	63.0	48.8	73.2

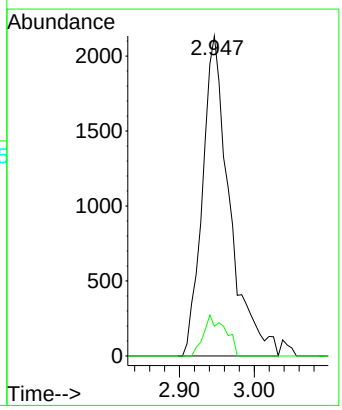


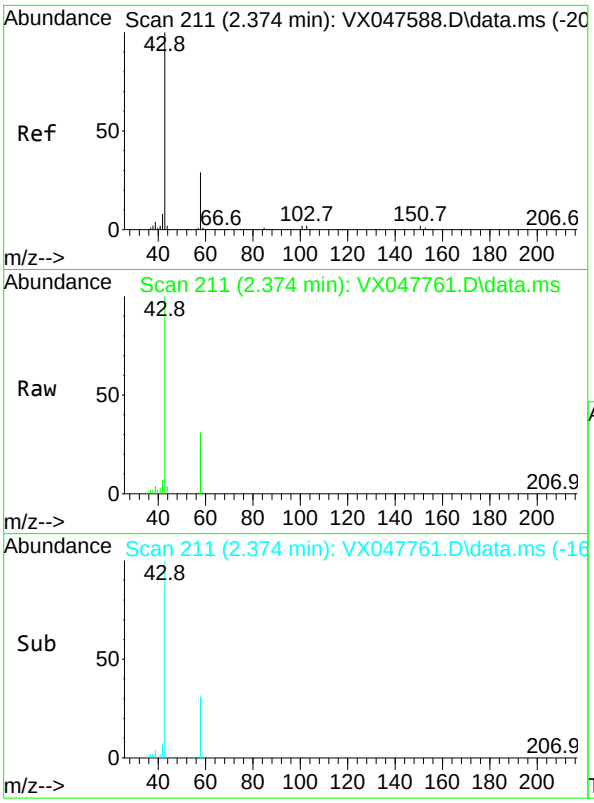


#11
Tert butyl alcohol
Concen: 19.270 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Tgt Ion: 59 Resp: 5373

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5



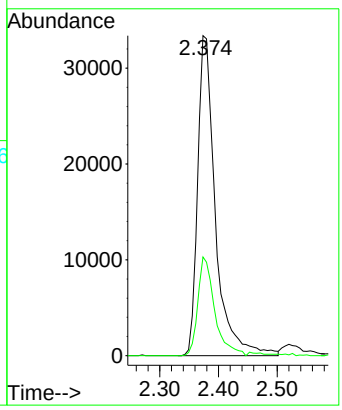


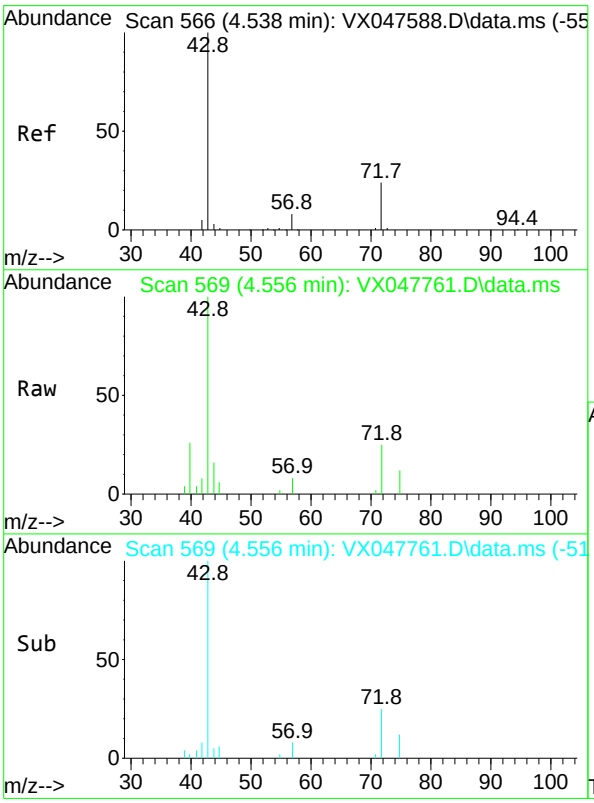
#16
Acetone
Concen: 64.507 ug/l
RT: 2.374 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Tgt Ion: 43 Resp: 70220

Ion	Ratio	Lower	Upper
43	100		
58	32.3	23.4	35.0

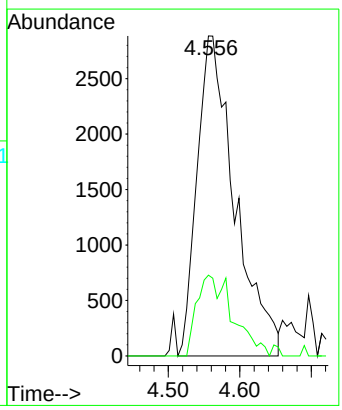


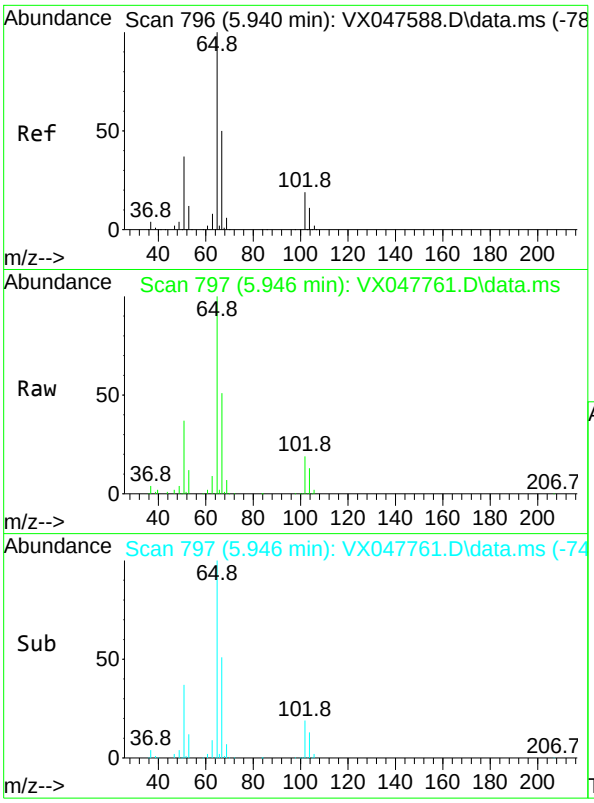


#25
2-Butanone
Concen: 7.795 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.018 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Tgt Ion: 43 Resp: 10584

Ion	Ratio	Lower	Upper
43	100		
72	28.8	20.1	30.1



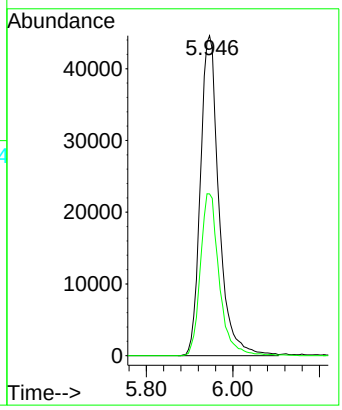


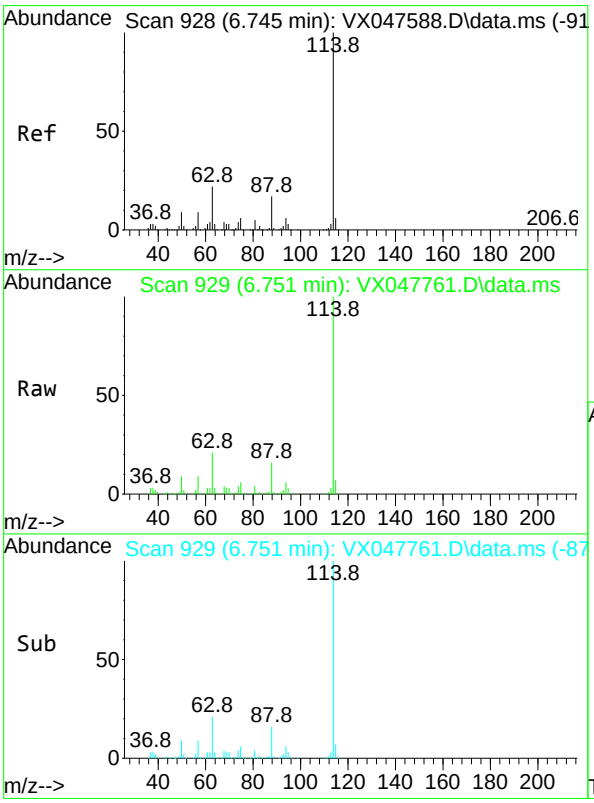
#33
1,2-Dichloroethane-d4
Concen: 52.947 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Tgt Ion: 65 Resp: 132556

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.0

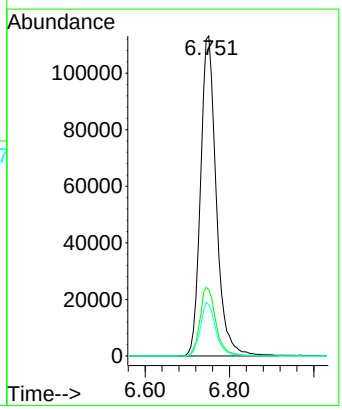


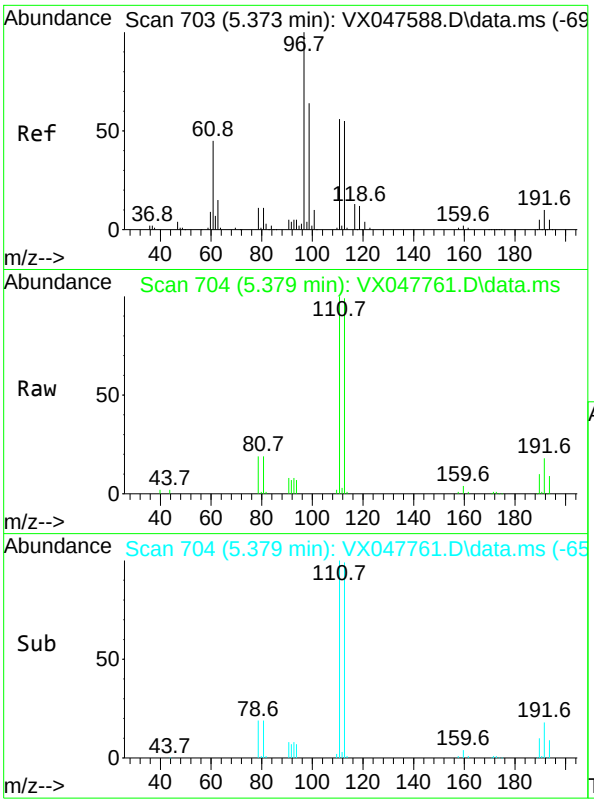


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Tgt Ion:114 Resp: 293648

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	16.0	0.0	34.2



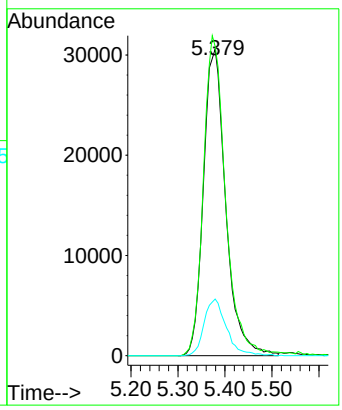


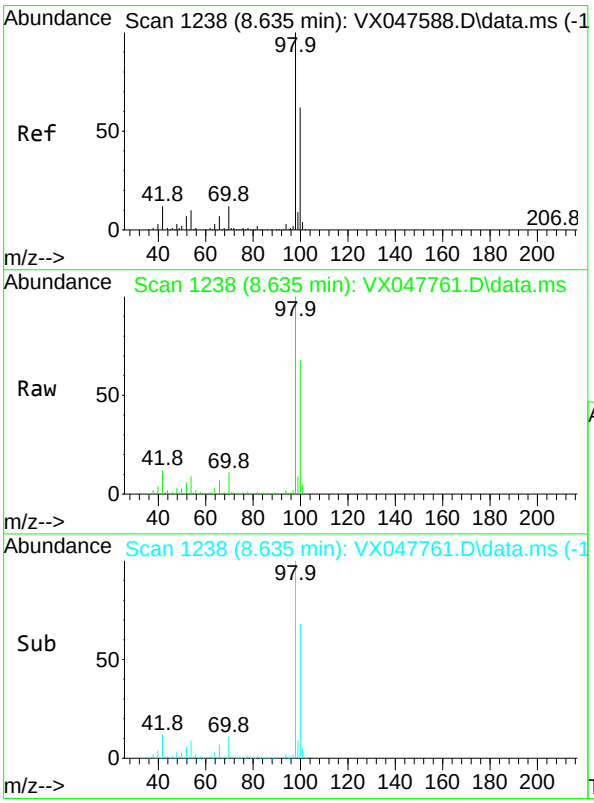
#35
Dibromofluoromethane
Concen: 51.128 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Tgt Ion:113 Resp: 100689

Ion	Ratio	Lower	Upper
113	100		
111	104.2	80.9	121.3
192	18.4	14.2	21.4

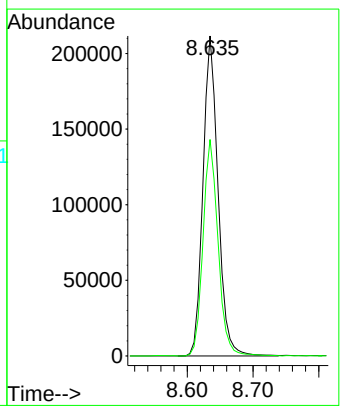


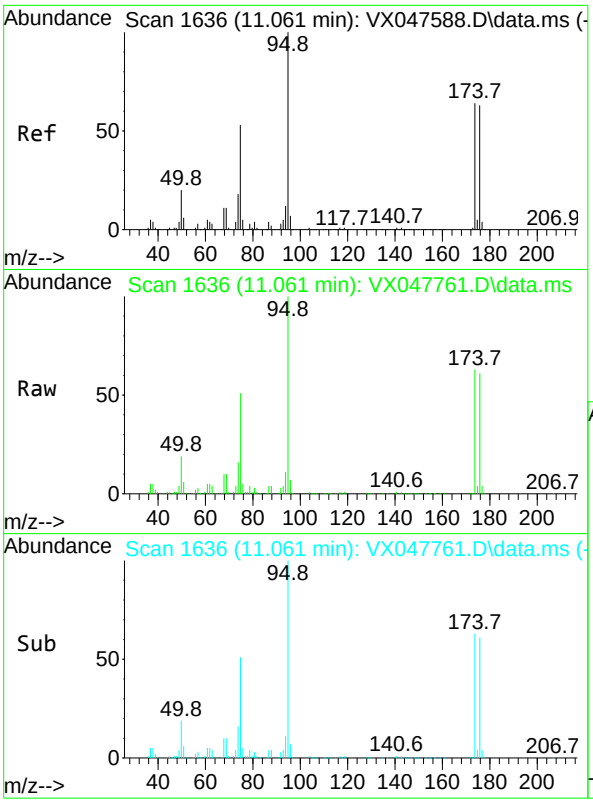


#50
Toluene-d8
Concen: 49.468 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Tgt Ion: 98 Resp: 337096

Ion	Ratio	Lower	Upper
98	100		
100	67.5	53.0	79.4



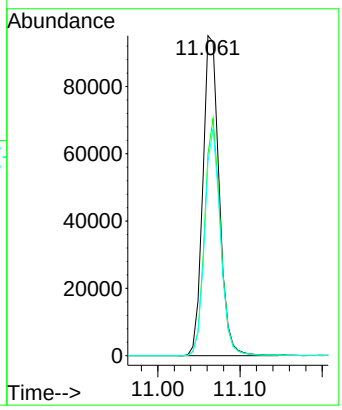


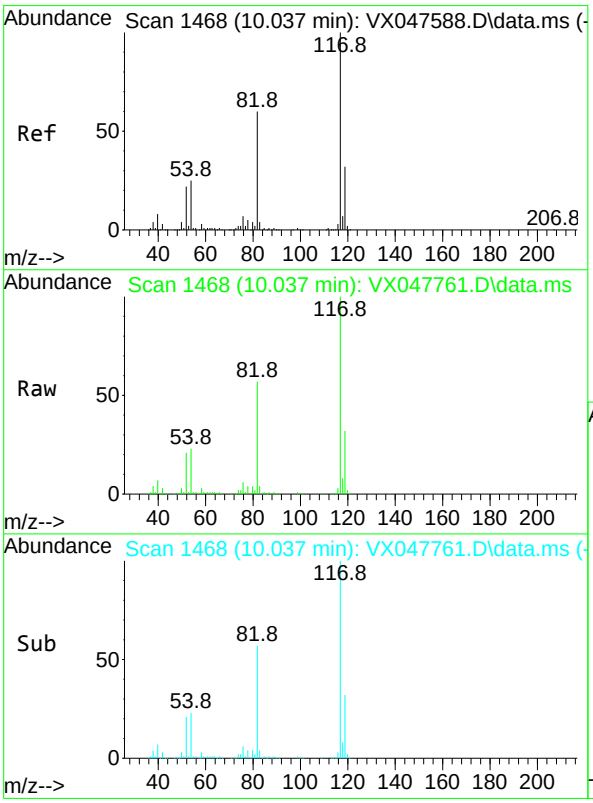
#62
4-Bromofluorobenzene
Concen: 50.837 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Tgt Ion: 95 Resp: 131474

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	141.6
176	68.7	0.0	138.4

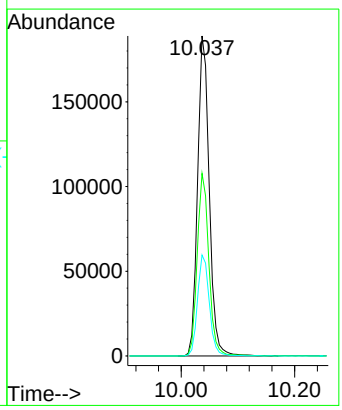


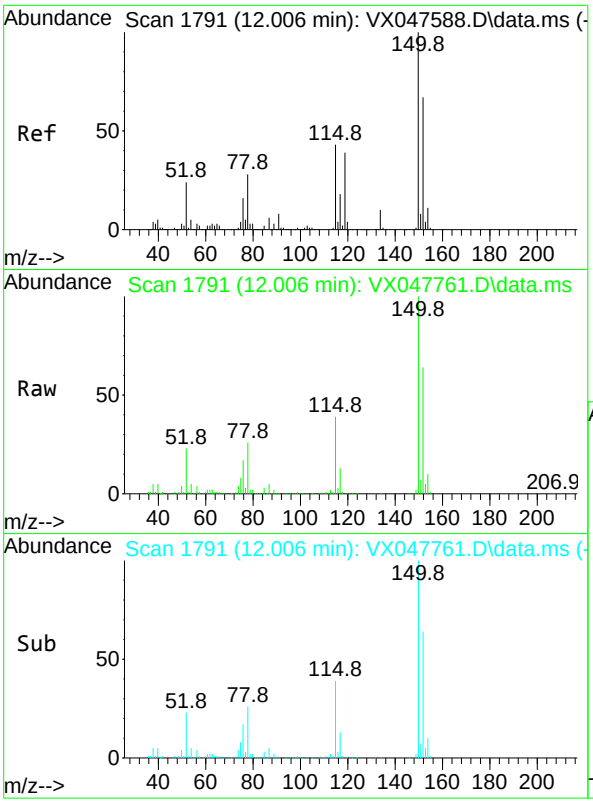


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Tgt Ion:117 Resp: 269079

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.8	71.6
119	31.6	25.2	37.8



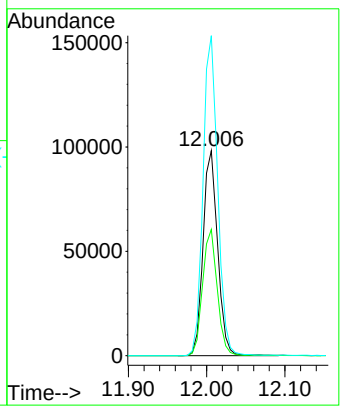


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047761.D
Acq: 24 Sep 2025 08:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Tgt Ion:152 Resp: 126784

Ion	Ratio	Lower	Upper
152	100		
115	61.7	44.9	134.5
150	156.7	0.0	352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047761.D
Acq On : 24 Sep 2025 08:43
Operator : JC/MD
Sample : Q3141-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047761.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.374	204	211	230	rBV	51714	108717	11.99%	2.106%
2	2.520	230	235	245	rVB3	6742	15198	1.68%	0.294%
3	2.947	297	305	314	rBV4	4741	11715	1.29%	0.227%
4	4.556	561	569	572	rBV3	5196	11908	1.31%	0.231%
5	5.379	692	704	720	rBV3	100204	328314	36.20%	6.361%
6	5.538	720	730	752	rVB	153087	483018	53.26%	9.359%
7	5.946	786	797	816	rBV	120552	359526	39.64%	6.966%
8	6.745	919	928	948	rVV	268638	694802	76.61%	13.462%
9	8.635	1231	1238	1247	rBV	564422	906981	100.00%	17.573%
10	10.037	1462	1468	1486	rBV	585296	837511	92.34%	16.227%
11	11.067	1631	1637	1651	rBV	441055	613703	67.66%	11.891%
12	12.006	1785	1791	1801	rBV	602181	789866	87.09%	15.304%

Sum of corrected areas: 5161259

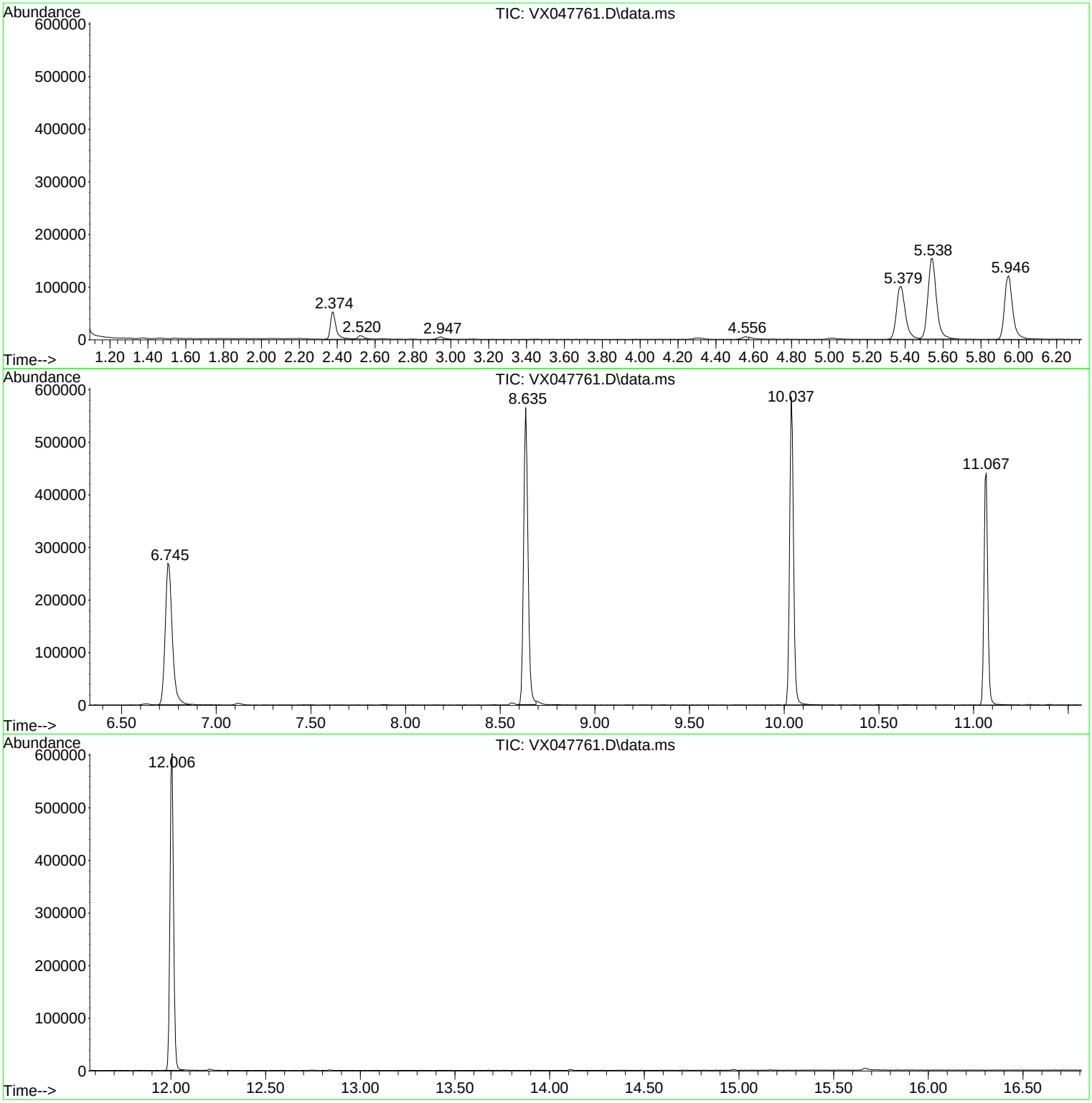
Sample Results: **VX047761.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047761.D
Acq On : 24 Sep 2025 08:43
Operator : JC/MD
Sample : Q3141-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047761.D
Acq On : 24 Sep 2025 08:43
Operator : JC/MD
Sample : Q3141-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047761.D
Acq On : 24 Sep 2025 08:43
Operator : JC/MD
Sample : Q3141-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250918

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-60-62	SDG No.:	Q3141
Lab Sample ID:	Q3141-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047730.D	1	09/23/25 14:07	VX092325

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	0.35	J	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	10.6		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	2.90	J	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	1.60		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	0.76	J	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	0.39	J	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:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-60-62	SDG No.:	Q3141
Lab Sample ID:	Q3141-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047730.D	1	09/23/25 14:07	VX092325

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	0.36	J	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	0.28	J	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	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.3		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	142000	5.544				
540-36-3	1,4-Difluorobenzene	299000	6.751				
3114-55-4	Chlorobenzene-d5	301000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	156000	12.006				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-60-62	SDG No.:	Q3141
Lab Sample ID:	Q3141-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047730.D	1	09/23/25 14:07	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-43-4	Dichlorofluoromethane	N.D					

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\VX092325\
Data File : VX047730.D
Acq On : 23 Sep 2025 14:07
Operator : JC/MD
Sample : Q3141-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Quant Time: Sep 24 01:32:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

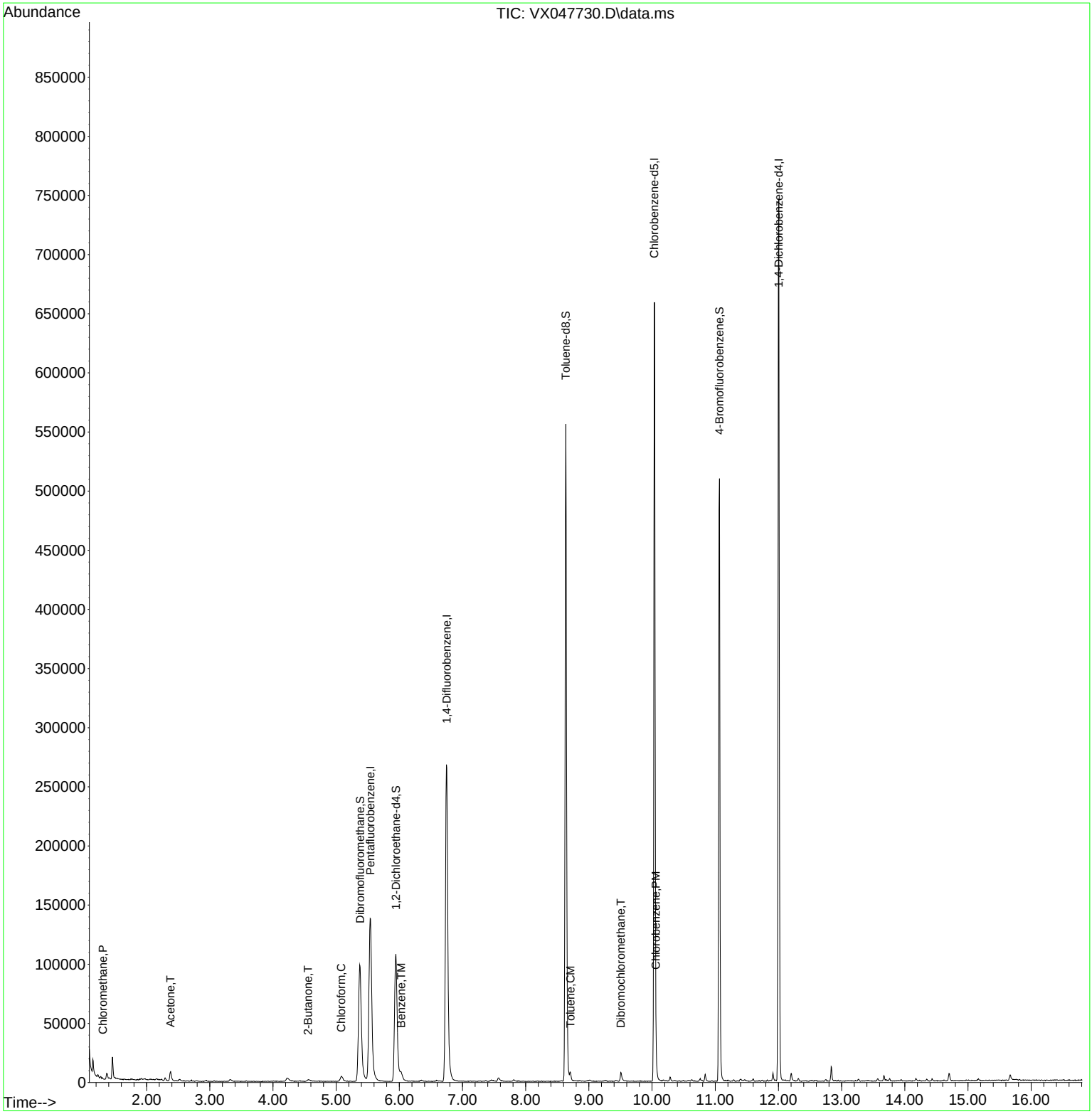
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	141797	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	298818	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	301046	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	155521	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	118593	52.543	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.080%			
35) Dibromofluoromethane	5.379	113	97478	48.641	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.280%			
50) Toluene-d8	8.635	98	334878	48.293	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.580%			
62) 4-Bromofluorobenzene	11.067	95	146404	55.631	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.260%			
Target Compounds						Qvalue
3) Chloromethane	1.307	50	678	0.351	ug/l #	85
16) Acetone	2.380	43	10429	10.627	ug/l	97
25) 2-Butanone	4.556	43	3588	2.931	ug/l	94
30) Chloroform	5.080	83	5853	1.617	ug/l	89
40) Benzene	6.031	78	6765	0.761	ug/l	92
52) Toluene	8.708	92	2151	0.393	ug/l	96
60) Dibromochloromethane	9.506	129	881	0.362	ug/l	87
65) Chlorobenzene	10.061	112	1894	0.277	ug/l	97

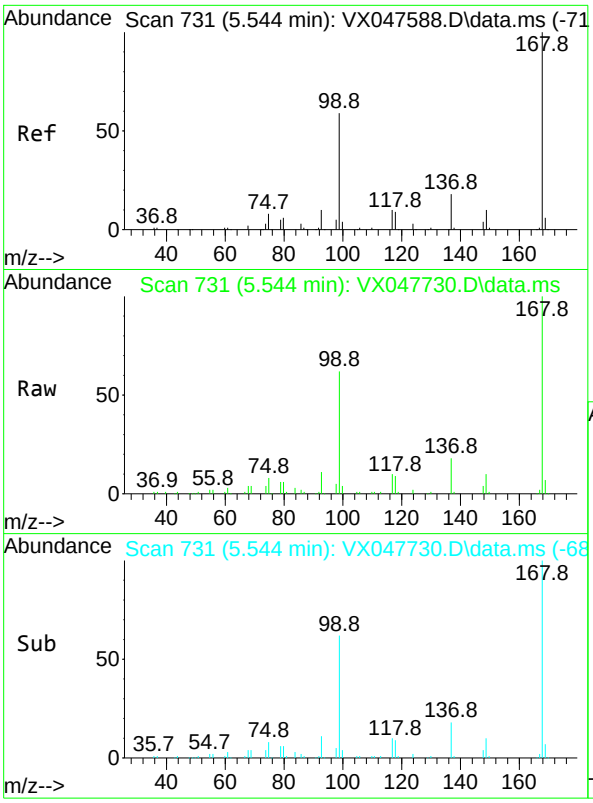
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047730.D
Acq On : 23 Sep 2025 14:07
Operator : JC/MD
Sample : Q3141-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Quant Time: Sep 24 01:32:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



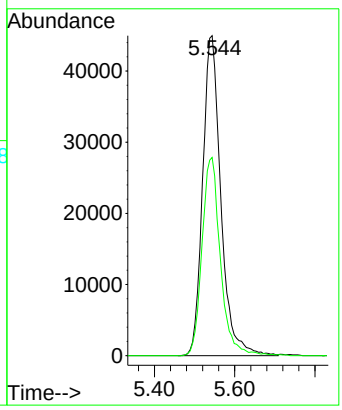


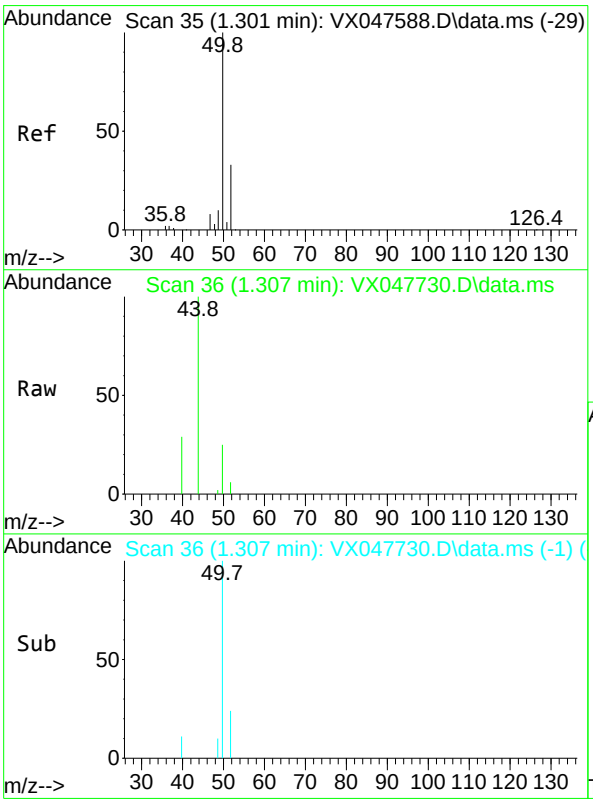
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion:168 Resp: 141797

Ion	Ratio	Lower	Upper
168	100		
99	62.0	48.8	73.2

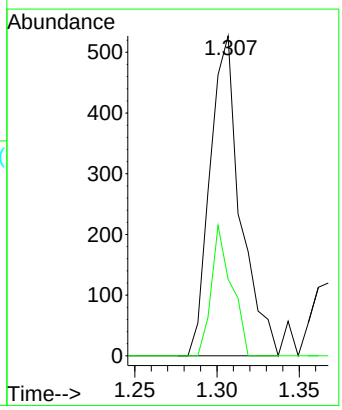


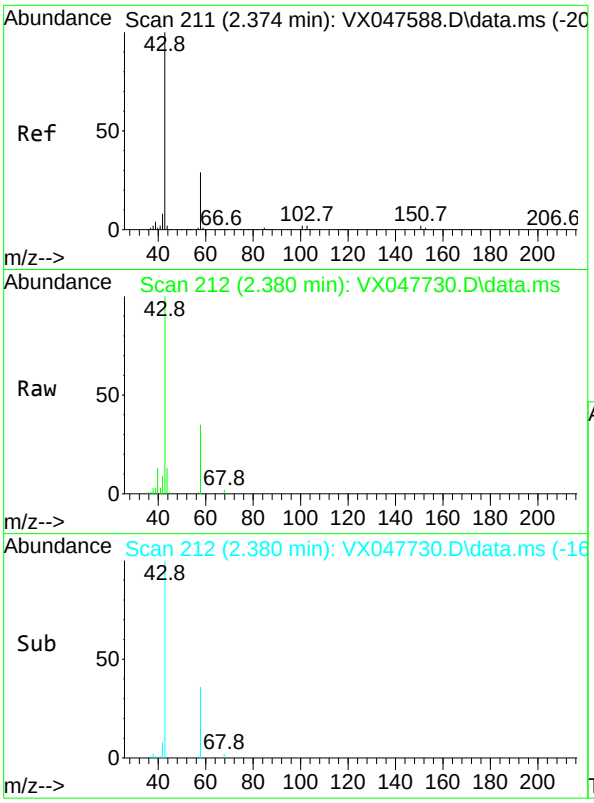


#3
Chloromethane
Concen: 0.351 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion: 50 Resp: 678

Ion	Ratio	Lower	Upper
50	100		
52	23.9	26.1	39.1#



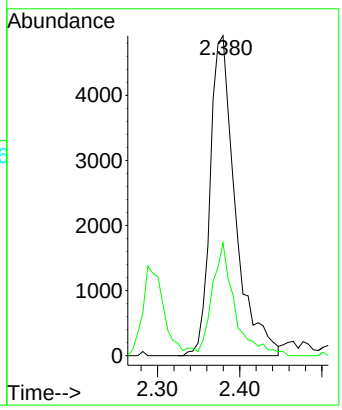


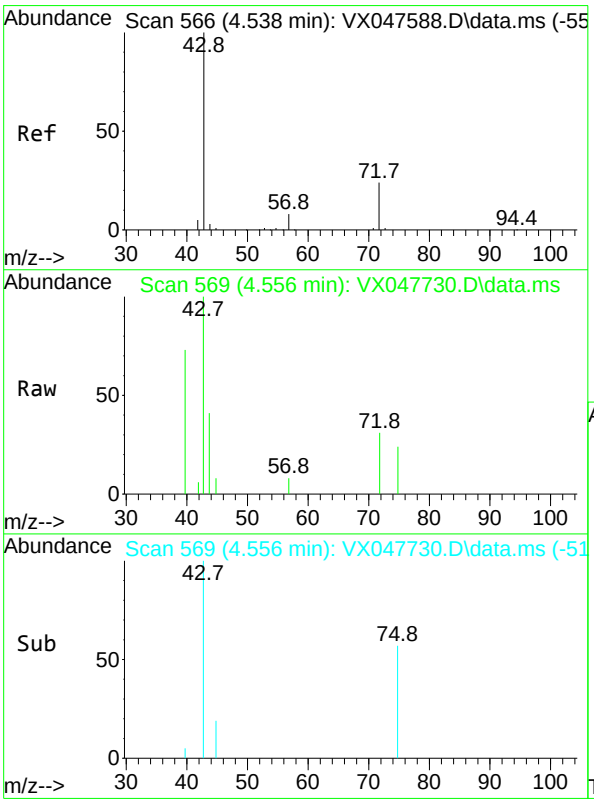
#16
Acetone
Concen: 10.627 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion: 43 Resp: 10429

Ion	Ratio	Lower	Upper
43	100		
58	30.9	23.4	35.0

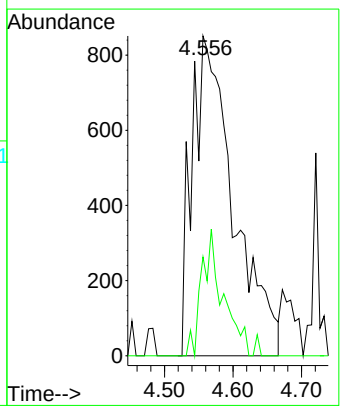


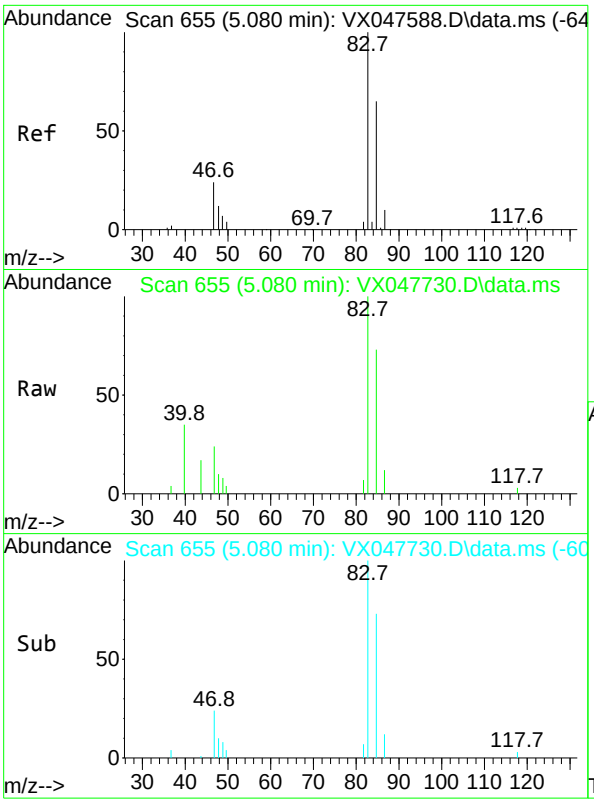


#25
2-Butanone
Concen: 2.931 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.018 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion: 43 Resp: 3588

Ion	Ratio	Lower	Upper
43	100		
72	21.9	20.1	30.1



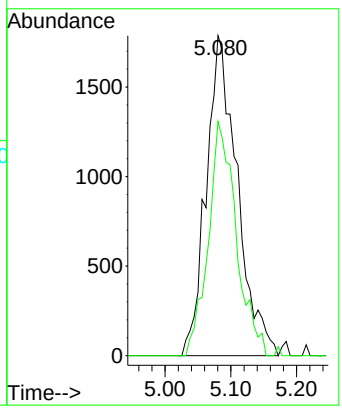


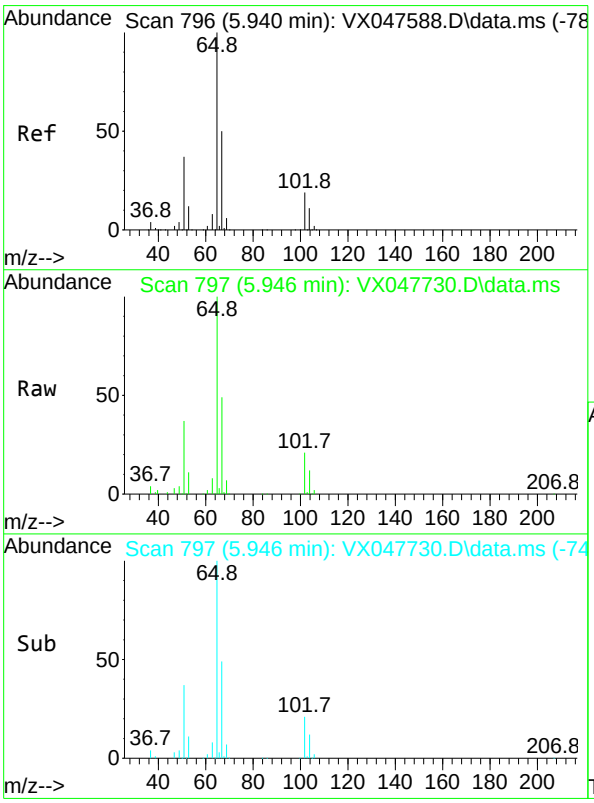
#30
Chloroform
Concen: 1.617 ug/l
RT: 5.080 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion: 83 Resp: 5853

Ion	Ratio	Lower	Upper
83	100		
85	73.2	51.8	77.6

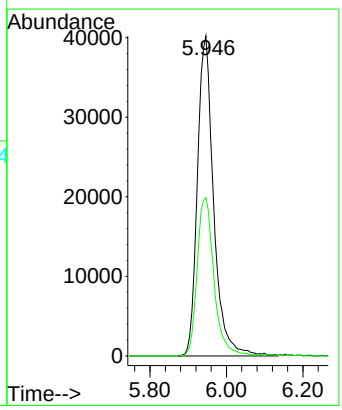


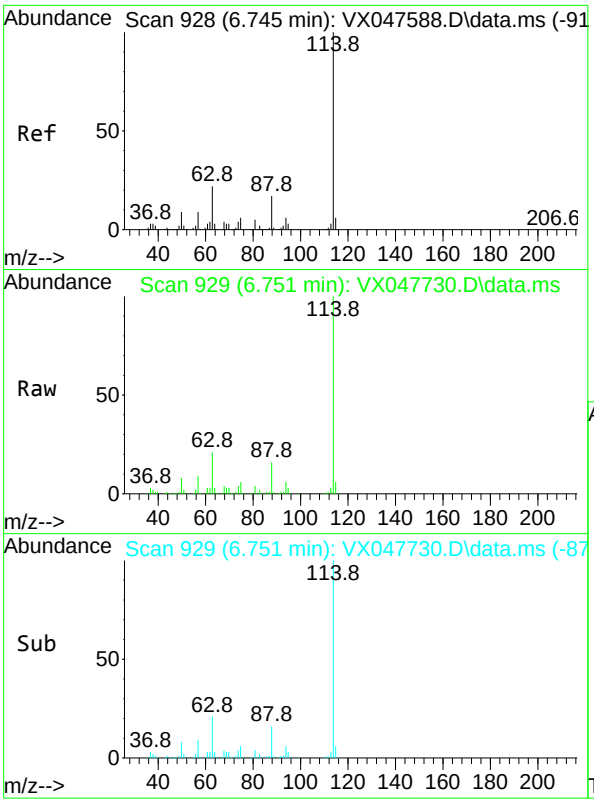


#33
1,2-Dichloroethane-d4
Concen: 52.543 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion: 65 Resp: 118593

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	103.0



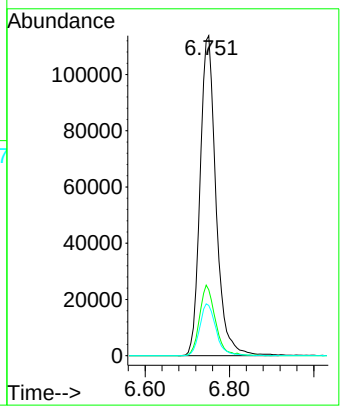


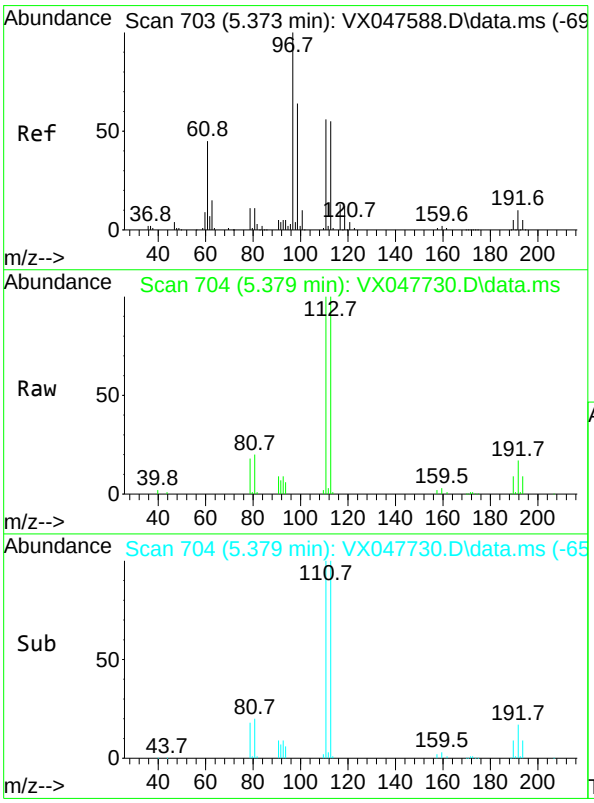
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion:114 Resp: 298818

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	44.0
88	15.7	0.0	34.2

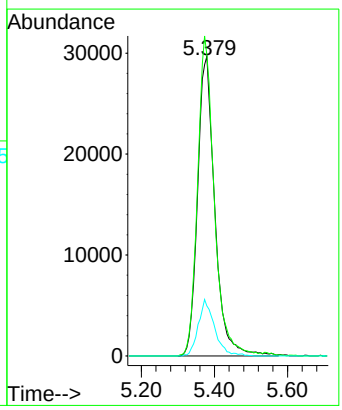


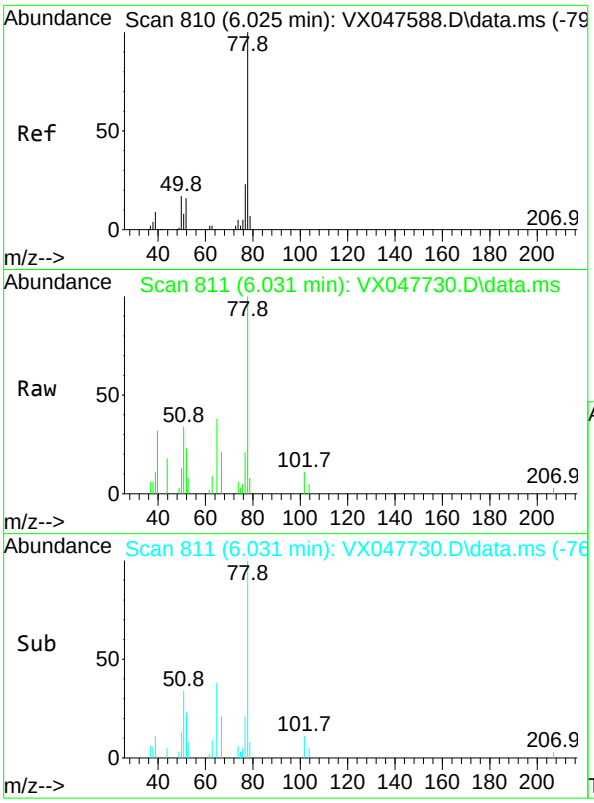


#35
Dibromofluoromethane
Concen: 48.641 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion:113 Resp: 97478

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	17.9	14.2	21.4



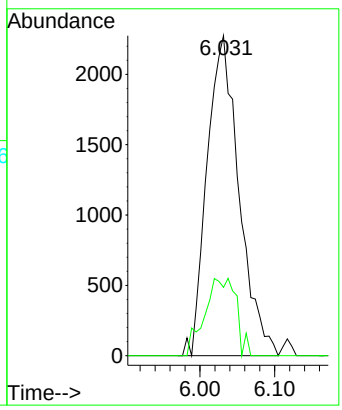


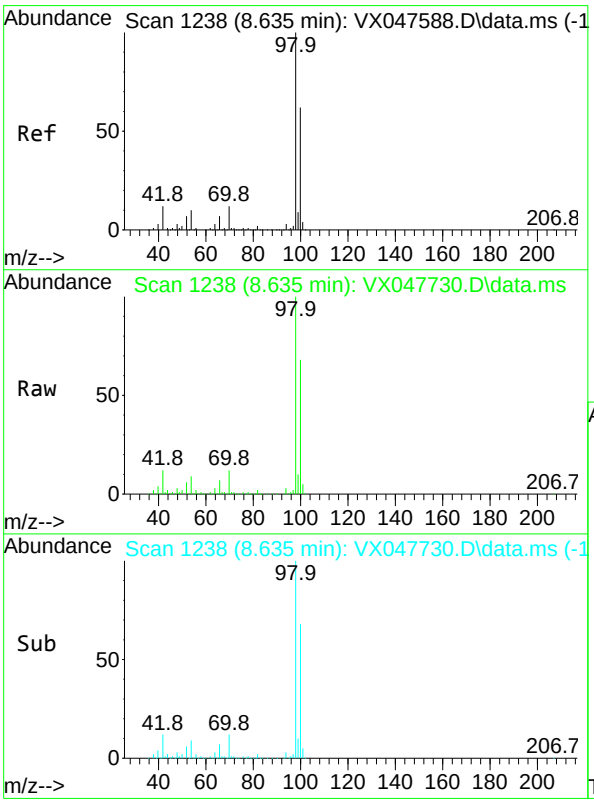
#40
Benzene
Concen: 0.761 ug/l
RT: 6.031 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion: 78 Resp: 6765

Ion	Ratio	Lower	Upper
78	100		
77	19.7	18.8	28.2

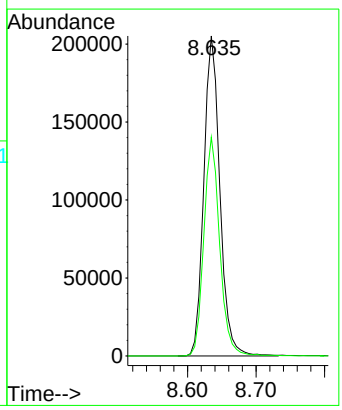


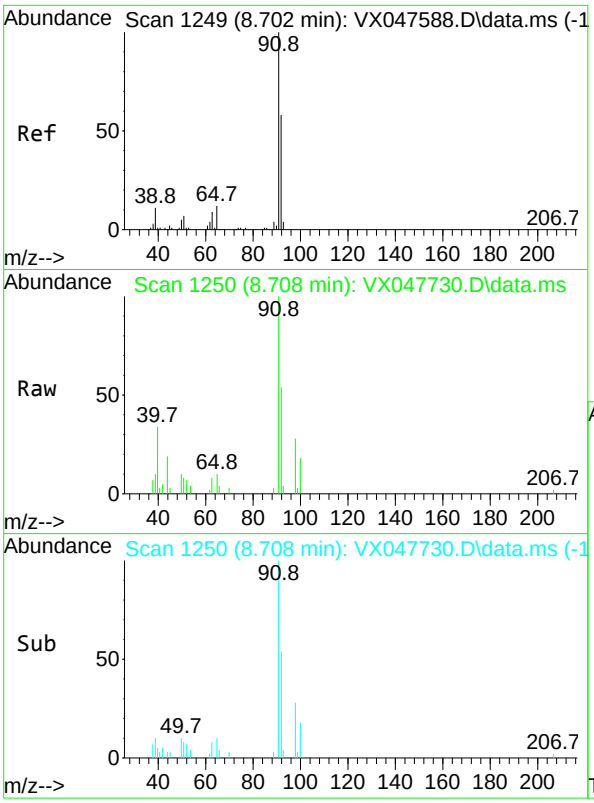


#50
Toluene-d8
Concen: 48.293 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion: 98 Resp: 334878

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.0	79.4



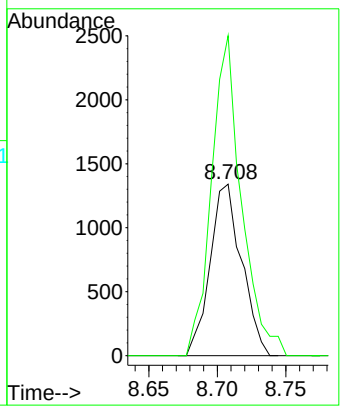


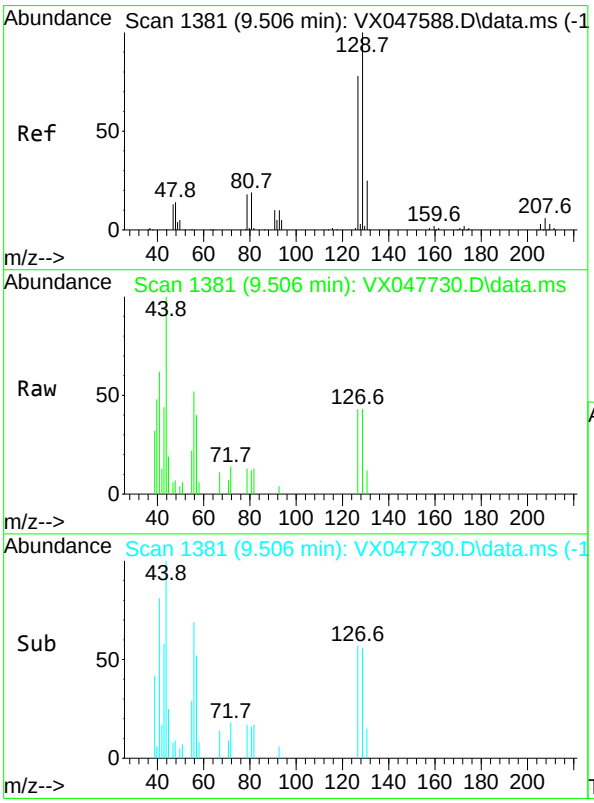
#52
Toluene
Concen: 0.393 ug/l
RT: 8.708 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion: 92 Resp: 2151

Ion	Ratio	Lower	Upper
92	100		
91	176.9	137.1	205.7

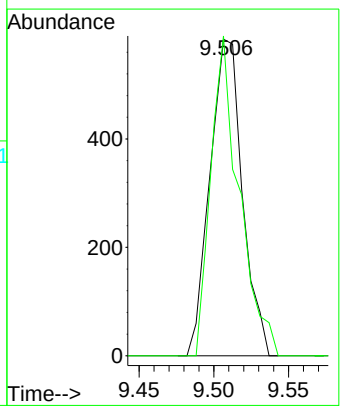


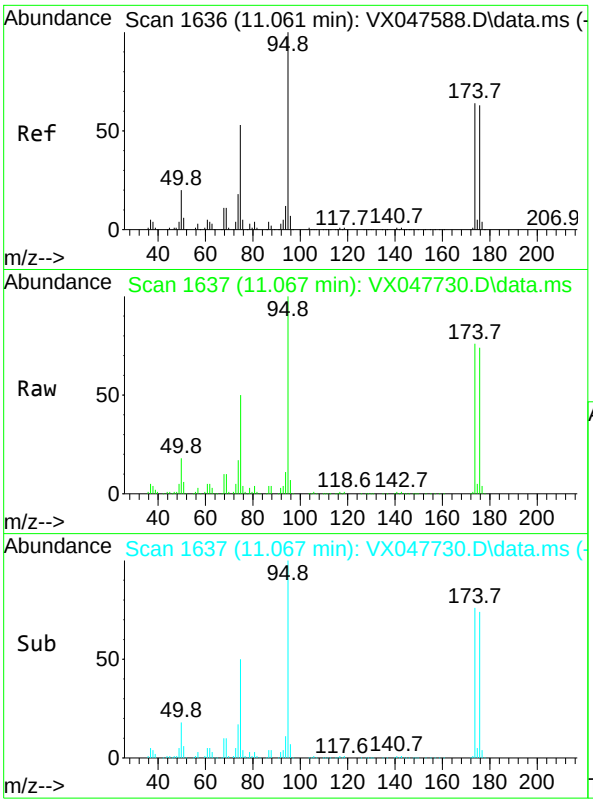


#60
Dibromochloromethane
Concen: 0.362 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion:129 Resp: 881

Ion	Ratio	Lower	Upper
129	100		
127	88.2	38.4	115.2



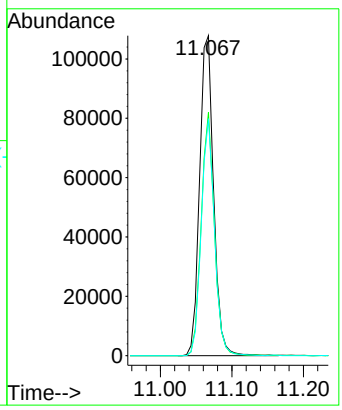


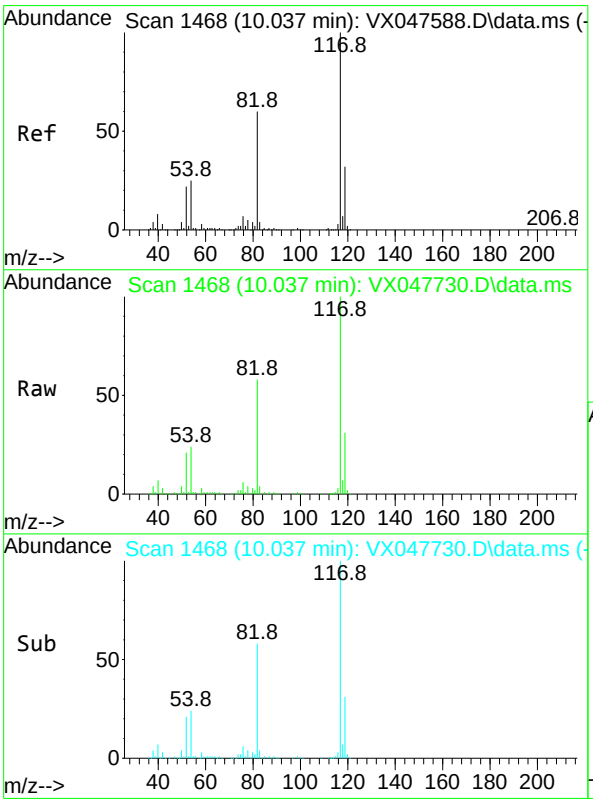
#62
4-Bromofluorobenzene
Concen: 55.631 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion: 95 Resp: 146404

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	141.6
176	70.1	0.0	138.4

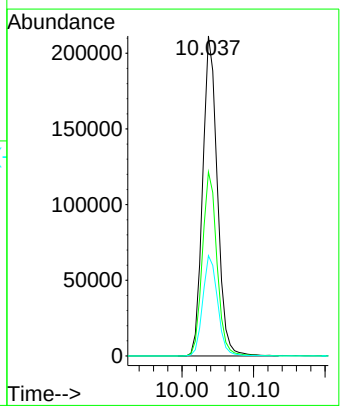


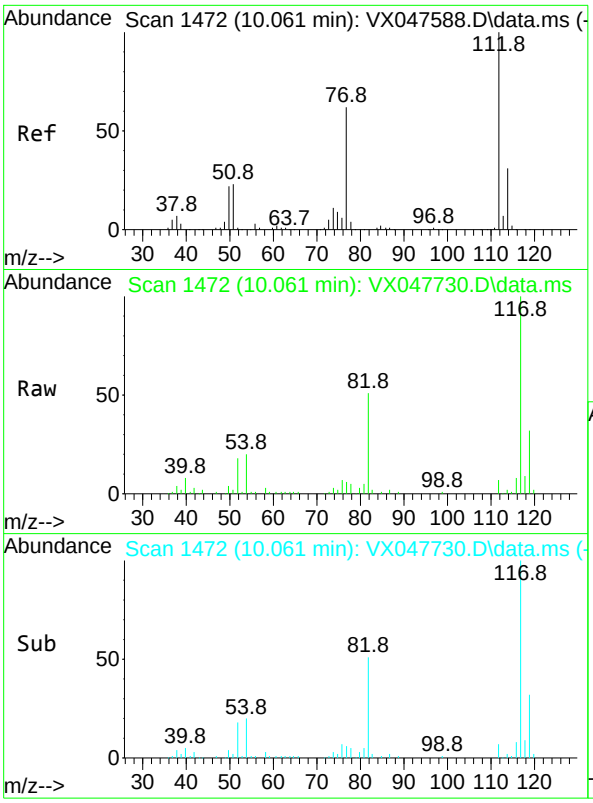


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion:117 Resp: 301046

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.8	71.6
119	31.4	25.2	37.8



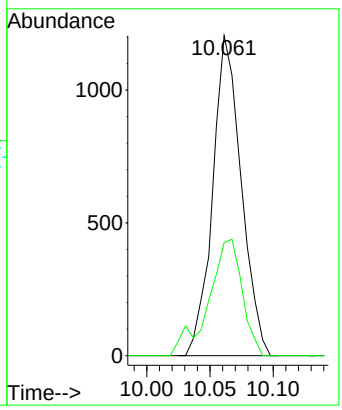


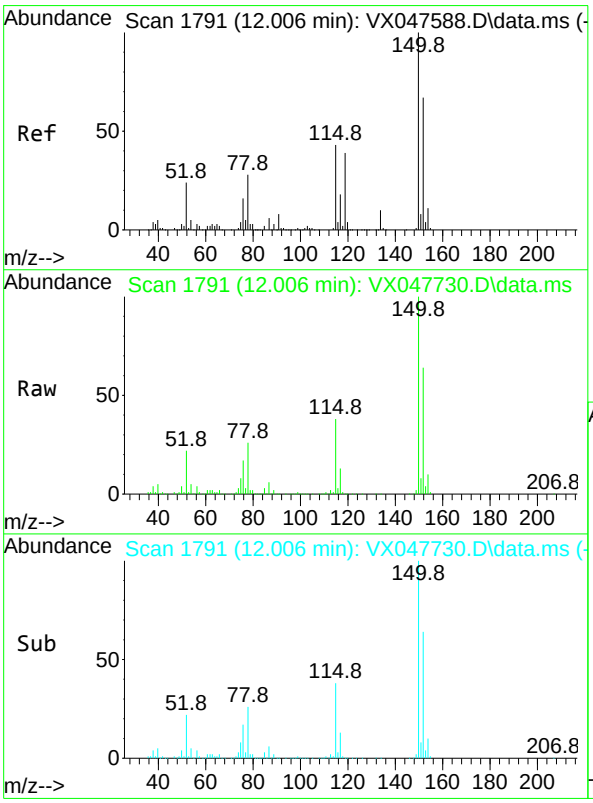
#65
Chlorobenzene
Concen: 0.277 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Tgt Ion:112 Resp: 1894

Ion	Ratio	Lower	Upper
112	100		
114	33.3	25.1	37.7

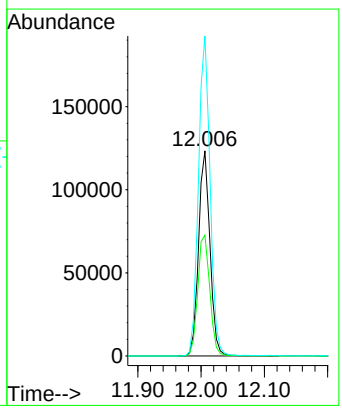




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047730.D
Acq: 23 Sep 2025 14:07

Tgt Ion:152 Resp: 155521

Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.9	134.5
150	158.7	0.0	352.0



Sample Results: **VX047730.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047730.D
Acq On : 23 Sep 2025 14:07
Operator : JC/MD
Sample : Q3141-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047730.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.148	8	10	21	rVB2	14701	21285	2.19%	0.390%
2	1.459	57	61	70	rBV	18640	25249	2.59%	0.463%
3	2.380	206	212	222	rVB	7799	15237	1.57%	0.279%
4	5.080	646	655	666	rBV3	4359	13451	1.38%	0.247%
5	5.373	692	703	720	rBV3	98283	316271	32.49%	5.799%
6	5.538	720	730	754	rVB	137433	434914	44.68%	7.974%
7	5.946	786	797	809	rBV	107514	319987	32.87%	5.867%
8	6.745	918	928	948	rBV	267922	710523	72.99%	13.027%
9	8.635	1231	1238	1247	rBV	555390	906051	93.08%	16.612%
10	8.702	1247	1249	1259	rVB2	7571	12467	1.28%	0.229%
11	9.506	1375	1381	1391	rBV2	7658	14979	1.54%	0.275%
12	10.037	1462	1468	1485	rBV	658552	949631	97.56%	17.411%
13	11.067	1631	1637	1649	rBV	509569	693678	71.26%	12.718%
14	12.006	1785	1791	1800	rBV	745650	973421	100.00%	17.847%
15	12.201	1819	1823	1831	rBV	6396	10399	1.07%	0.191%
16	12.835	1923	1927	1934	rBV2	12313	16639	1.71%	0.305%
17	14.701	2229	2233	2240	rVB5	6323	9998	1.03%	0.183%
18	15.670	2386	2392	2399	rBV6	4728	10086	1.04%	0.185%

Sum of corrected areas: 5454266

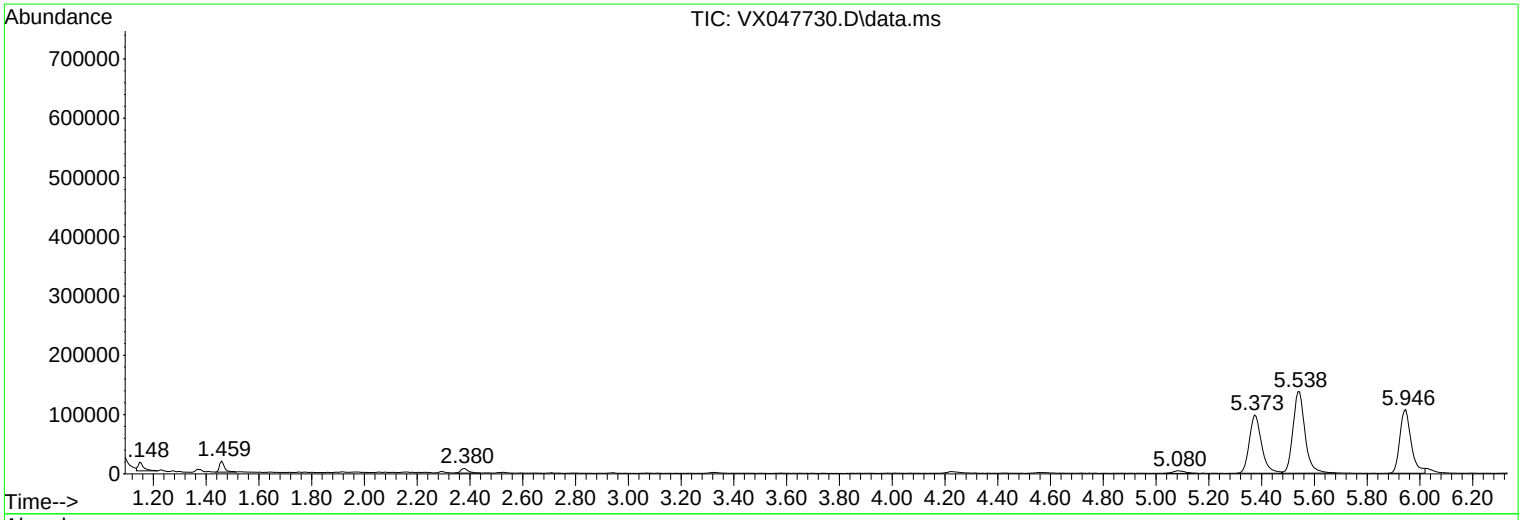
Sample Results: **VX047730.D**

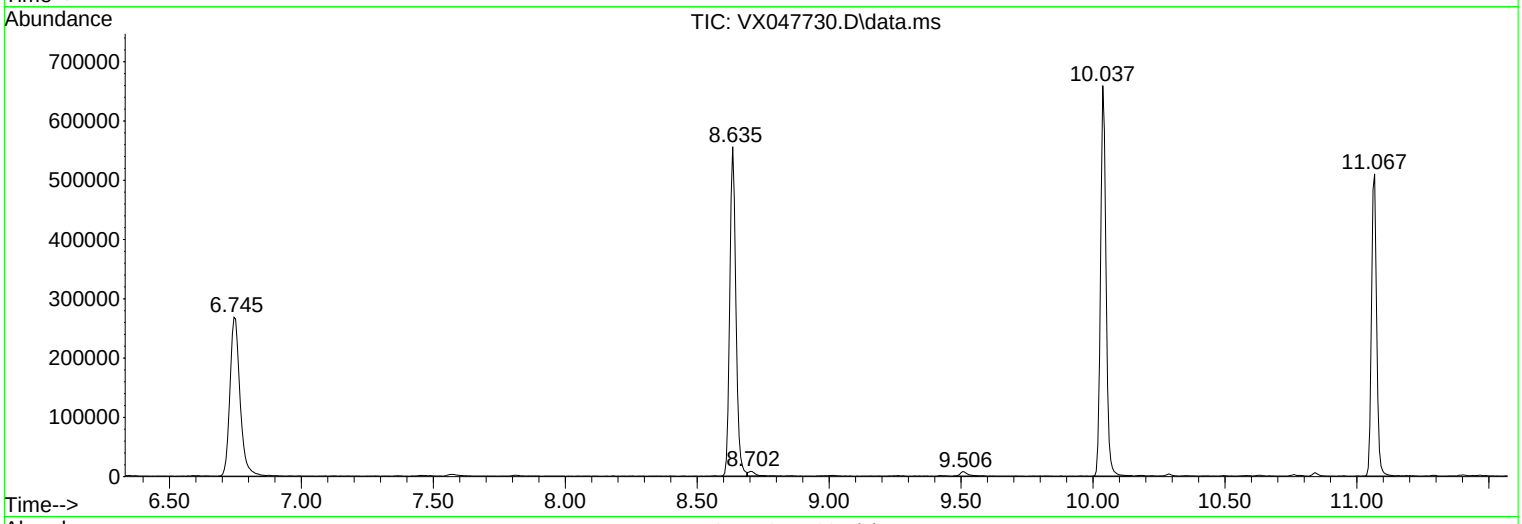
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047730.D
Acq On : 23 Sep 2025 14:07
Operator : JC/MD
Sample : Q3141-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

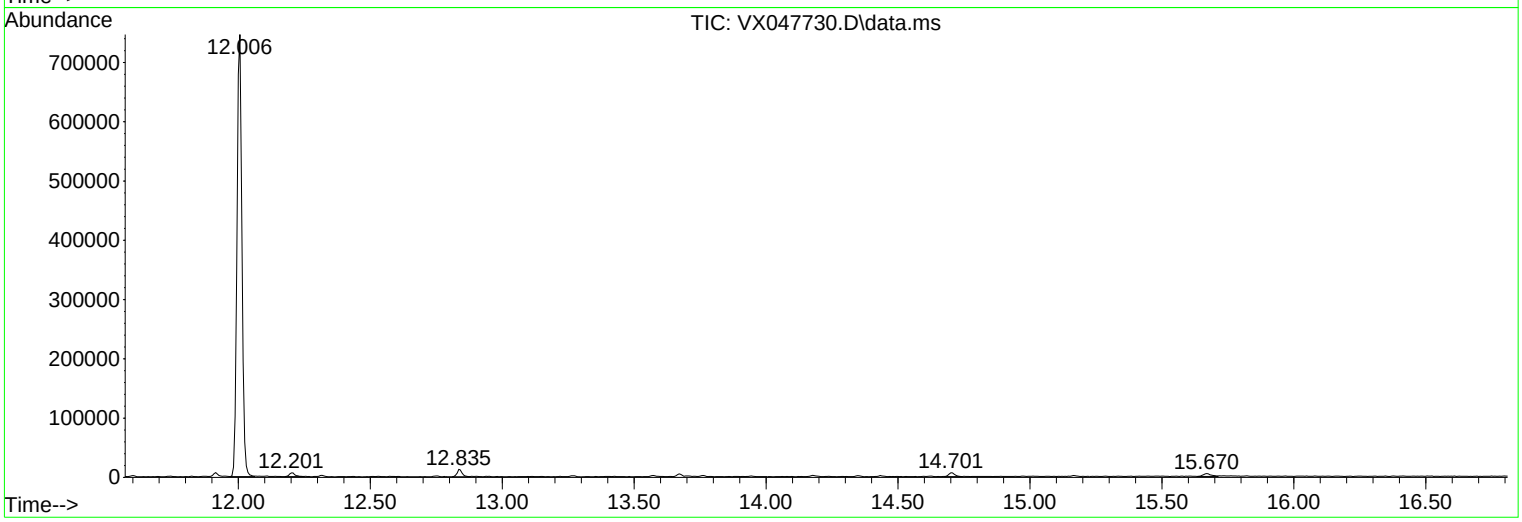
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047730.D
Acq On : 23 Sep 2025 14:07
Operator : JC/MD
Sample : Q3141-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047730.D
Acq On : 23 Sep 2025 14:07
Operator : JC/MD
Sample : Q3141-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-60-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-100-102	SDG No.:	Q3141
Lab Sample ID:	Q3141-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047760.D	1	09/24/25 08:22	VX092325

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	10.9		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	0.67	J	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	0.94	J	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	0.35	J	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	0.34	J	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:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-100-102	SDG No.:	Q3141
Lab Sample ID:	Q3141-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047760.D	1	09/24/25 08:22	VX092325

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	0.45	J	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	0.26	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	56.9		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	56.6		80 - 119		113%	SPK: 50
2037-26-5	Toluene-d8	55.0		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.2		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	165000	5.537				
540-36-3	1,4-Difluorobenzene	300000	6.745				
3114-55-4	Chlorobenzene-d5	277000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	136000	12.006				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-100-102	SDG No.:	Q3141
Lab Sample ID:	Q3141-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047760.D	1	09/24/25 08:22	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-43-4	Dichlorofluoromethane	N.D					

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\VX092325\
Data File : VX047760.D
Acq On : 24 Sep 2025 08:22
Operator : JC/MD
Sample : Q3141-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Quant Time: Sep 24 08:43:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

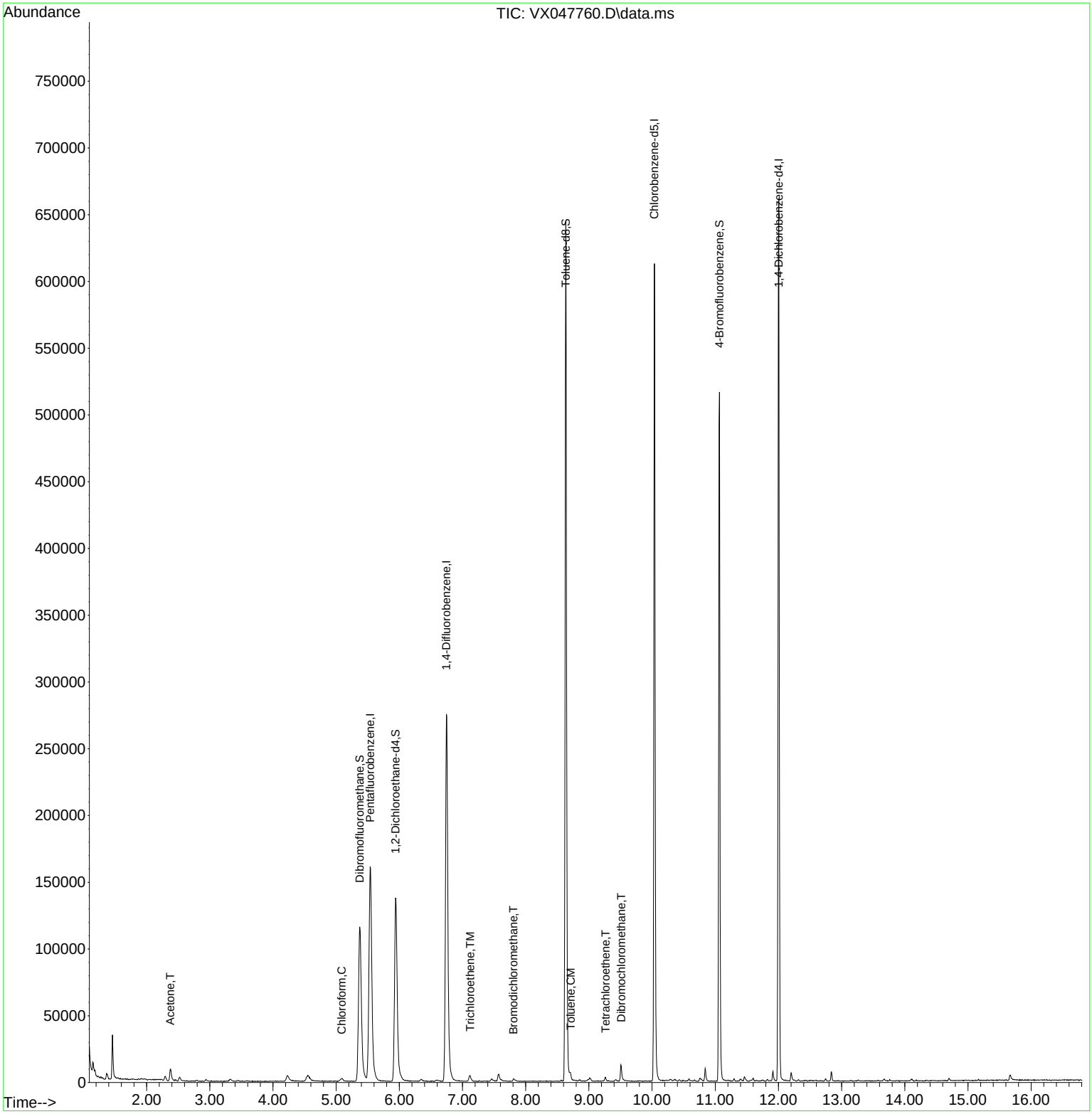
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	165497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	300349	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	276860	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	136496	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	149951	56.923	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 113.840%			
35) Dibromofluoromethane	5.373	113	113994	56.592	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.180%			
50) Toluene-d8	8.634	98	383307	54.995	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 109.980%			
62) 4-Bromofluorobenzene	11.067	95	148783	56.246	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.500%			
Target Compounds						Qvalue
16) Acetone	2.373	43	12472	10.889	ug/l	99
30) Chloroform	5.086	83	2823	0.668	ug/l	95
44) Trichloroethene	7.123	130	2022	0.936	ug/l	88
47) Bromodichloromethane	7.805	83	1217	0.354	ug/l #	94
52) Toluene	8.714	92	1845	0.335	ug/l	98
60) Dibromochloromethane	9.512	129	1095	0.447	ug/l	96
64) Tetrachloroethene	9.262	164	474	0.263	ug/l #	87

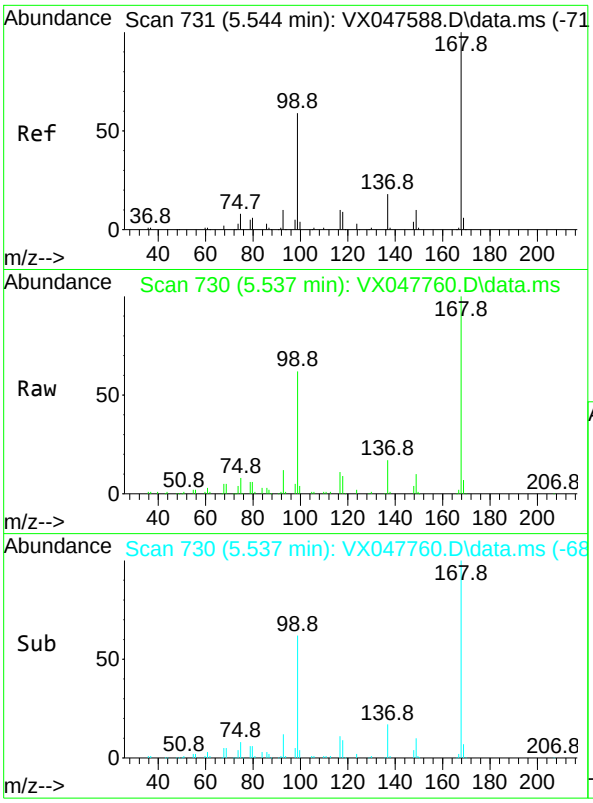
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047760.D
Acq On : 24 Sep 2025 08:22
Operator : JC/MD
Sample : Q3141-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Quant Time: Sep 24 08:43:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



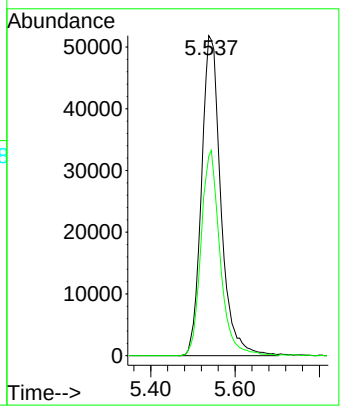


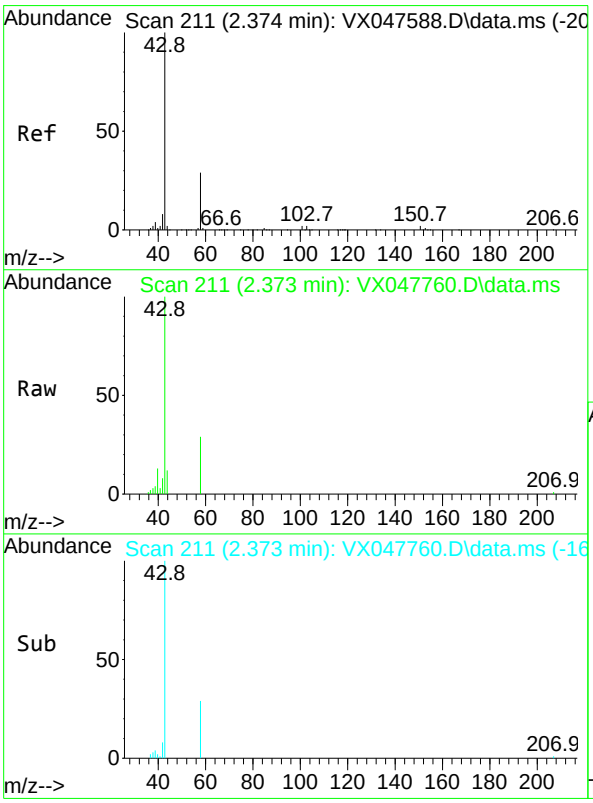
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion:168 Resp: 165497

Ion	Ratio	Lower	Upper
168	100		
99	62.3	48.8	73.2

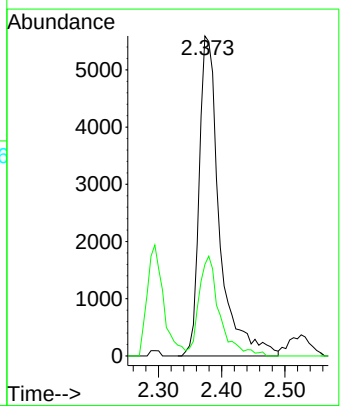


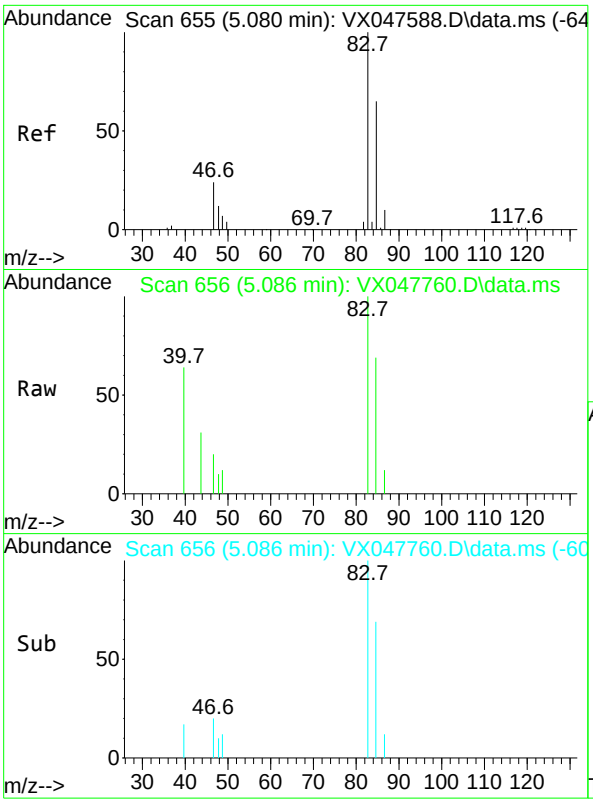


#16
Acetone
Concen: 10.889 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Tgt Ion: 43 Resp: 12472

Ion	Ratio	Lower	Upper
43	100		
58	28.6	23.4	35.0



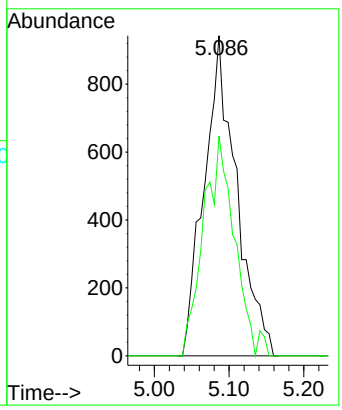


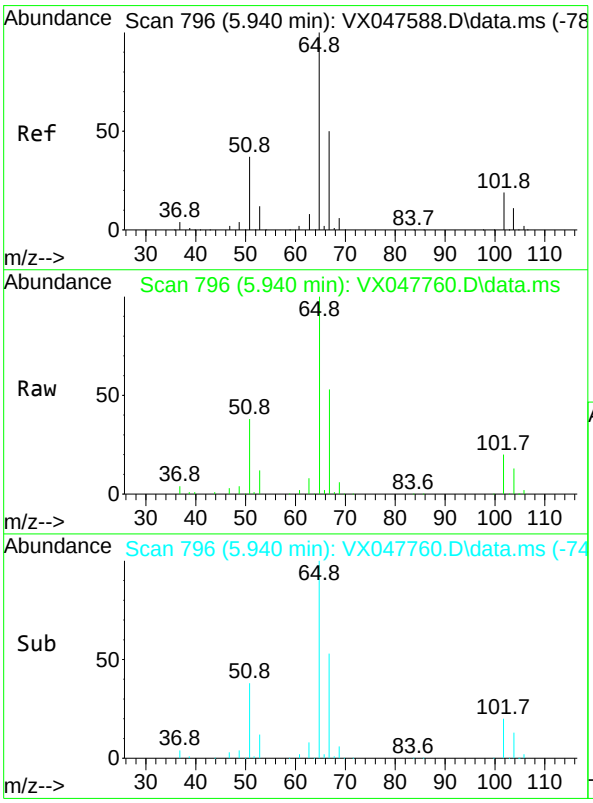
#30
Chloroform
Concen: 0.668 ug/l
RT: 5.086 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion: 83 Resp: 2823

Ion	Ratio	Lower	Upper
83	100		
85	68.6	51.8	77.6

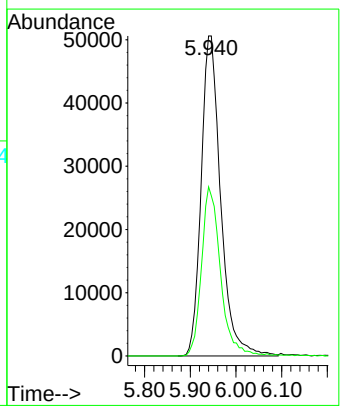


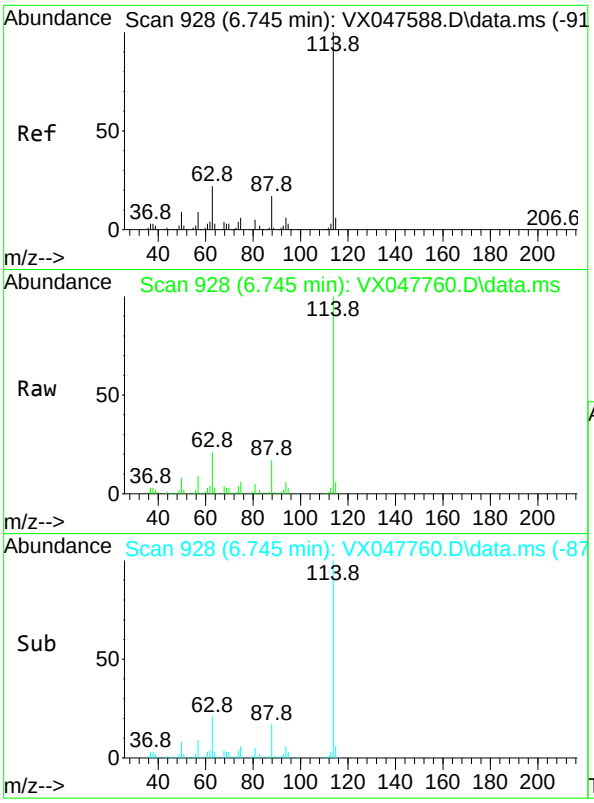


#33
1,2-Dichloroethane-d4
Concen: 56.923 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Tgt Ion: 65 Resp: 149951

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0



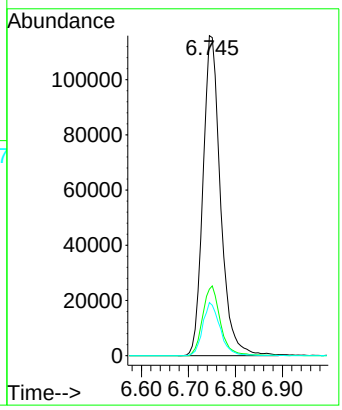


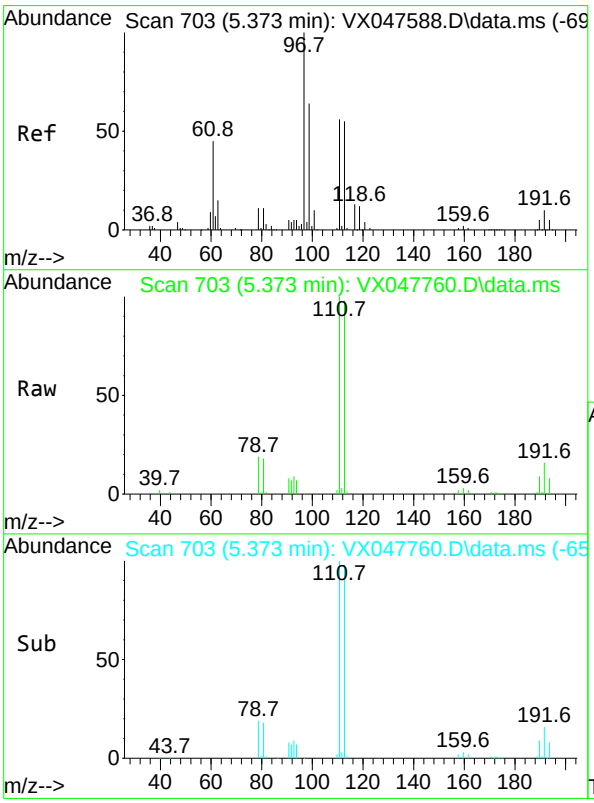
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion:114 Resp: 300349

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	44.0
88	16.6	0.0	34.2

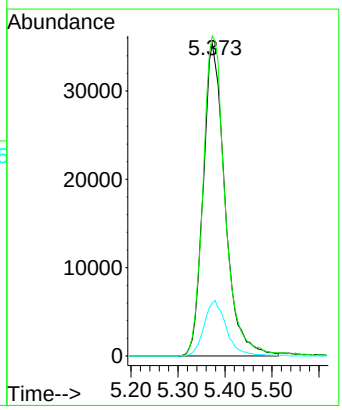


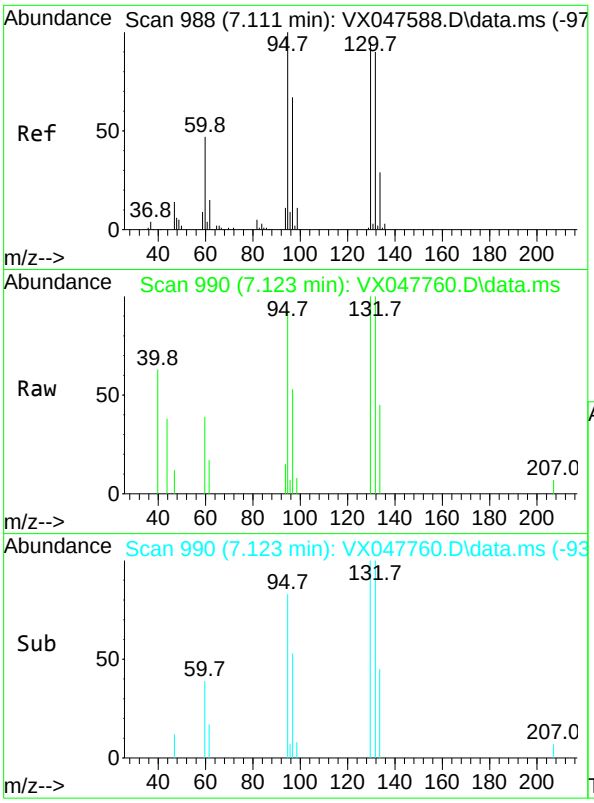


#35
Dibromofluoromethane
Concen: 56.592 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Tgt Ion:113 Resp: 113994

Ion	Ratio	Lower	Upper
113	100		
111	103.3	80.9	121.3
192	18.1	14.2	21.4



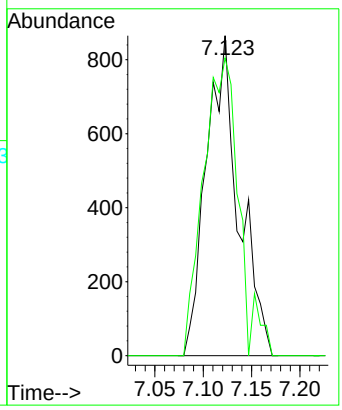


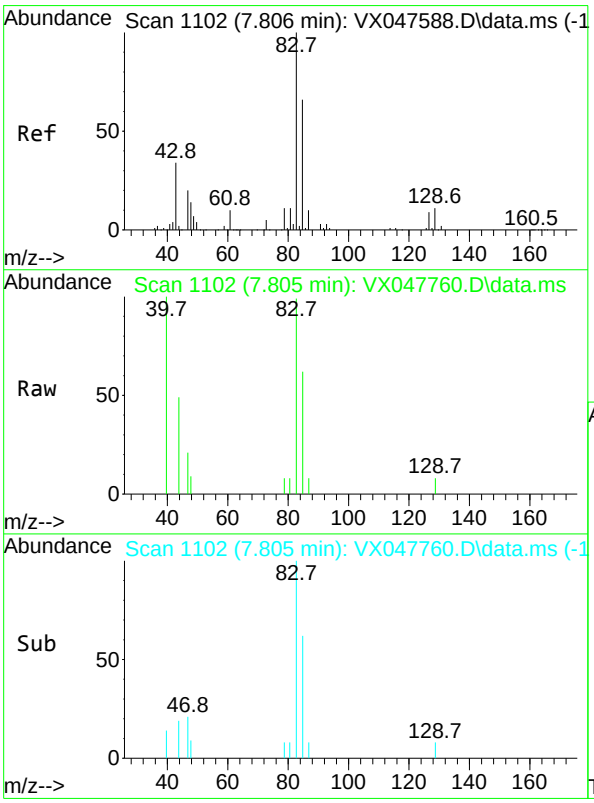
#44
Trichloroethene
Concen: 0.936 ug/l
RT: 7.123 min Scan# 9
Delta R.T. 0.012 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion:130 Resp: 2022

Ion	Ratio	Lower	Upper
130	100		
95	93.1	0.0	210.8

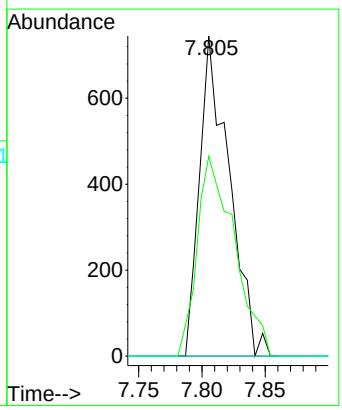


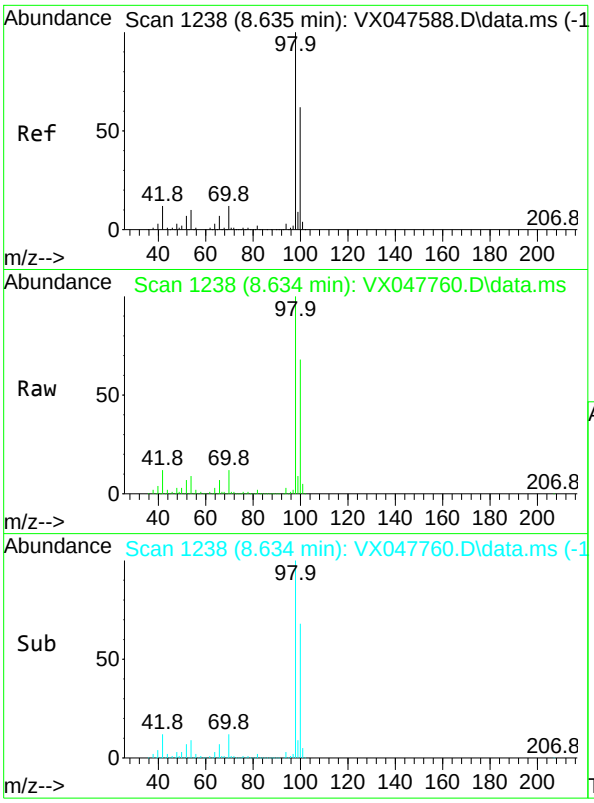


#47
Bromodichloromethane
Concen: 0.354 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Tgt Ion: 83 Resp: 1217

Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.5	78.7
127	0.0	6.9	10.3#



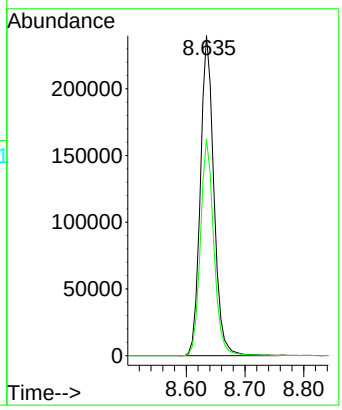


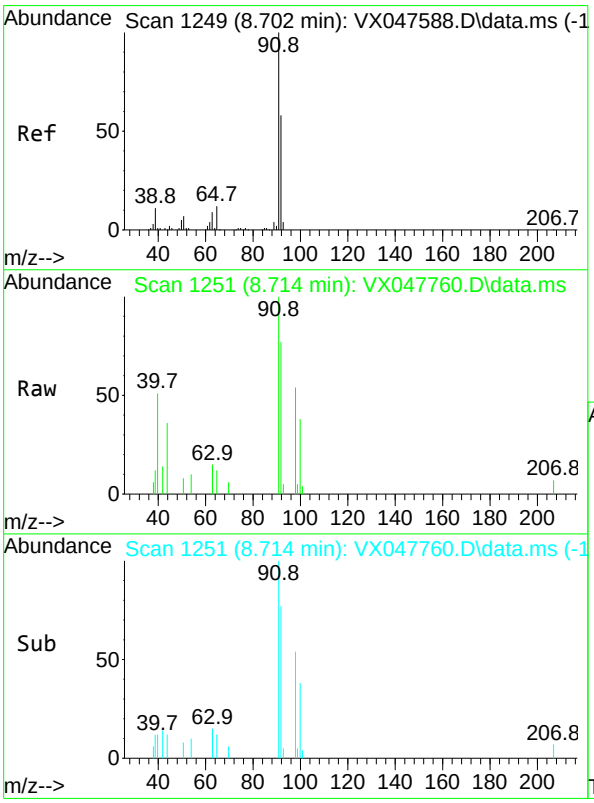
#50
Toluene-d8
Concen: 54.995 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion: 98 Resp: 383307

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

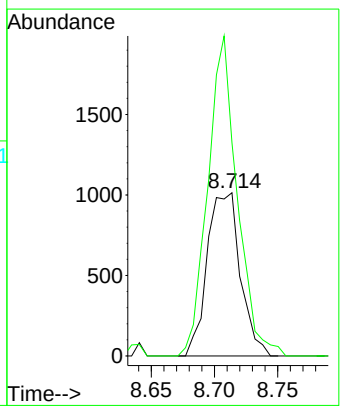


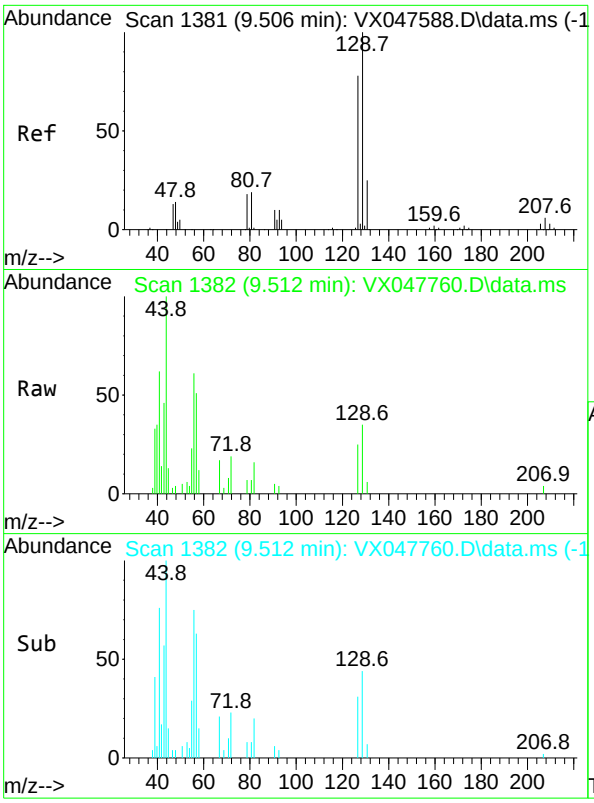


#52
Toluene
Concen: 0.335 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.012 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Tgt Ion: 92 Resp: 1845

Ion	Ratio	Lower	Upper
92	100		
91	174.4	137.1	205.7



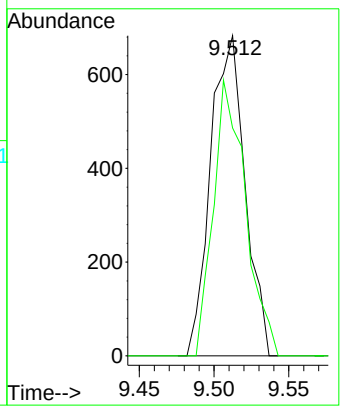


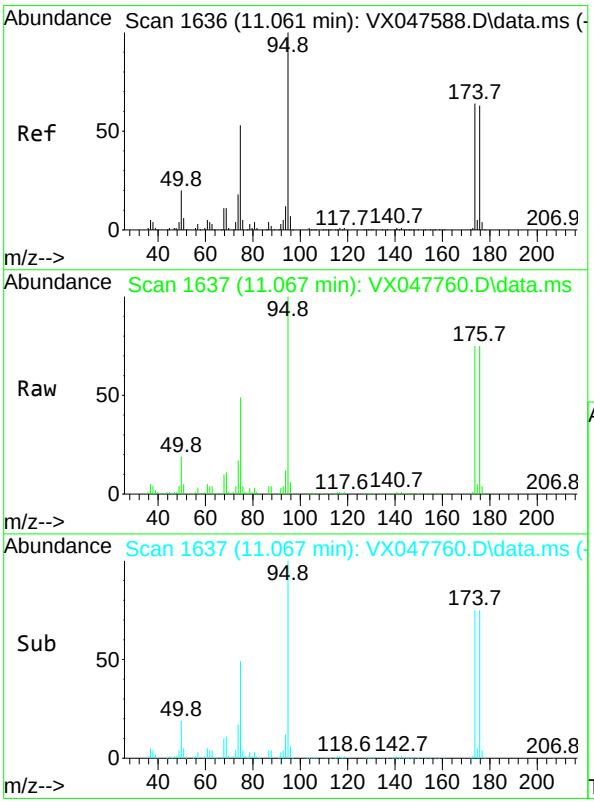
#60
Dibromochloromethane
Concen: 0.447 ug/l
RT: 9.512 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion:129 Resp: 1095

Ion	Ratio	Lower	Upper
129	100		
127	80.3	38.4	115.2

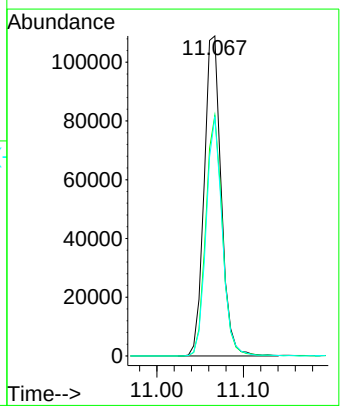


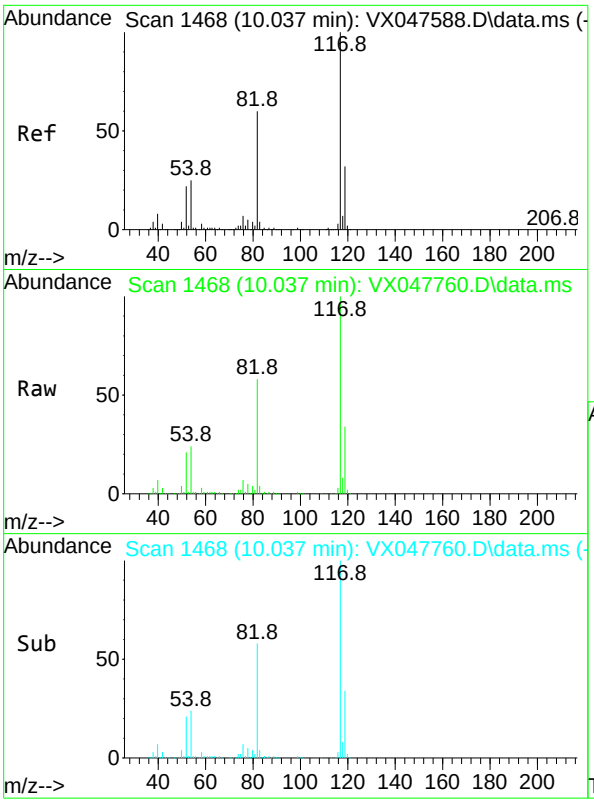


#62
4-Bromofluorobenzene
Concen: 56.246 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Tgt Ion: 95 Resp: 148783

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	141.6
176	70.8	0.0	138.4



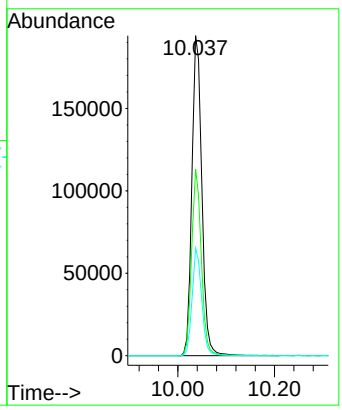


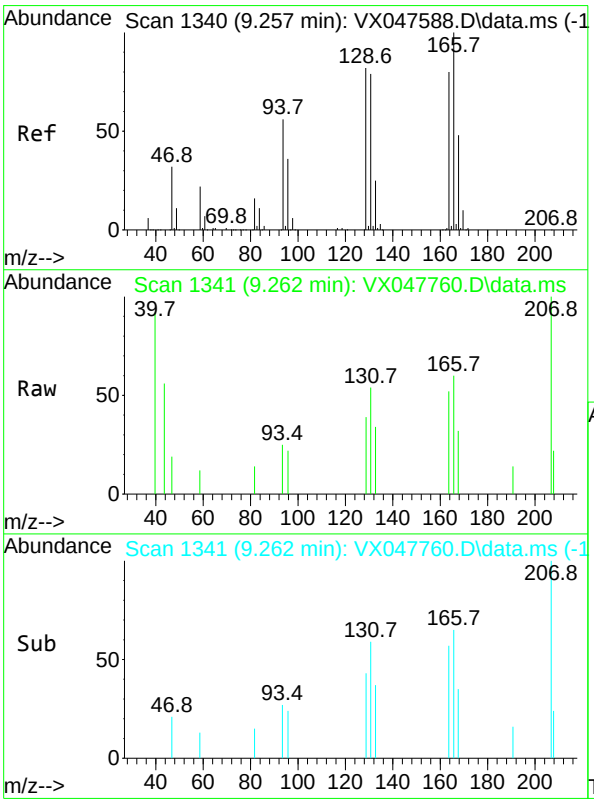
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion:117 Resp: 276860

Ion	Ratio	Lower	Upper
117	100		
82	58.3	47.8	71.6
119	33.6	25.2	37.8

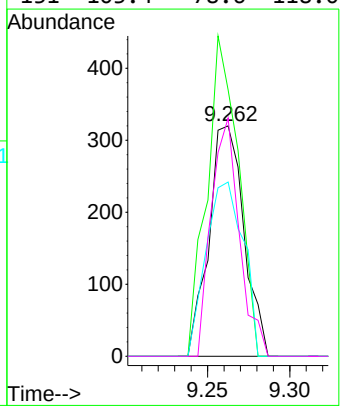


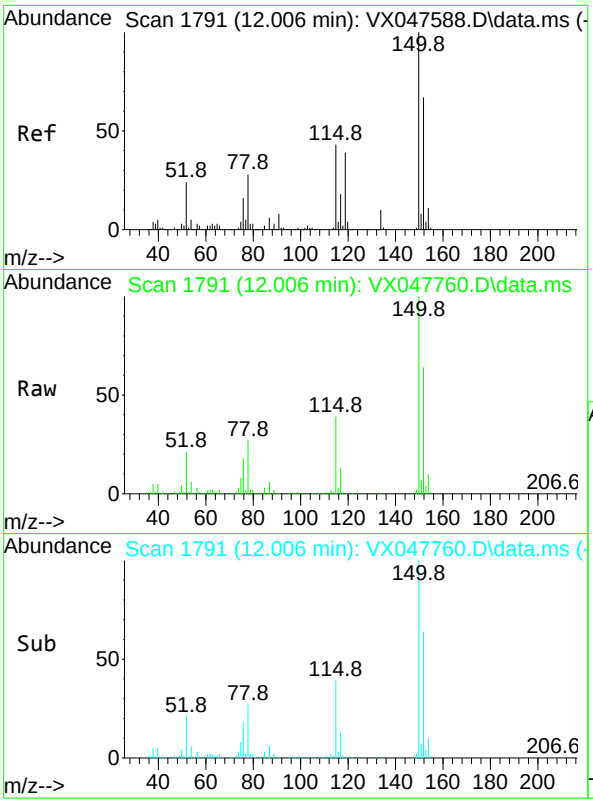


#64
Tetrachloroethene
Concen: 0.263 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Tgt Ion:164 Resp: 474

Ion	Ratio	Lower	Upper
164	100		
166	115.6	100.2	150.2
129	75.6	81.8	122.6#
131	103.4	78.6	118.0



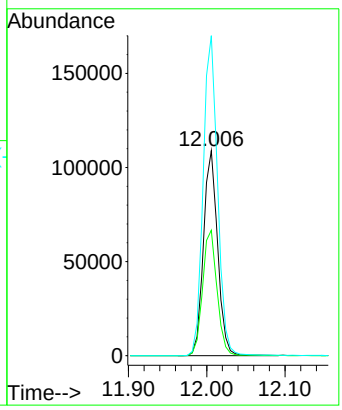


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047760.D
Acq: 24 Sep 2025 08:22

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Tgt Ion:152 Resp: 136496

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.9	134.5
150	159.0	0.0	352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047760.D
Acq On : 24 Sep 2025 08:22
Operator : JC/MD
Sample : Q3141-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047760.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.459	57	61	71	rBV	33052	42955	4.17%	0.768%
2	2.380	205	212	221	rBV	8815	18149	1.76%	0.324%
3	4.227	507	515	525	rBV5	4236	13176	1.28%	0.235%
4	4.550	558	568	580	rBV6	4403	17249	1.68%	0.308%
5	5.373	690	703	720	rBV3	115732	372558	36.20%	6.657%
6	5.537	720	730	753	rVB2	160221	505583	49.13%	9.034%
7	5.940	787	796	815	rBV	137338	404503	39.31%	7.228%
8	6.745	918	928	946	rBV	275133	716392	69.62%	12.801%
9	7.123	982	990	999	rVB7	4306	10792	1.05%	0.193%
10	7.574	1059	1064	1070	rBV3	5007	10630	1.03%	0.190%
11	8.635	1232	1238	1247	rBV	643554	1029065	100.00%	18.388%
12	9.506	1376	1381	1391	rBV	12170	20635	2.01%	0.369%
13	10.037	1462	1468	1484	rBV	612189	862312	83.80%	15.408%
14	10.841	1596	1600	1609	rVB3	9308	12933	1.26%	0.231%
15	11.067	1631	1637	1648	rBV	516153	705075	68.52%	12.599%
16	12.006	1785	1791	1805	rBV	660565	854350	83.02%	15.266%

Sum of corrected areas: 5596357

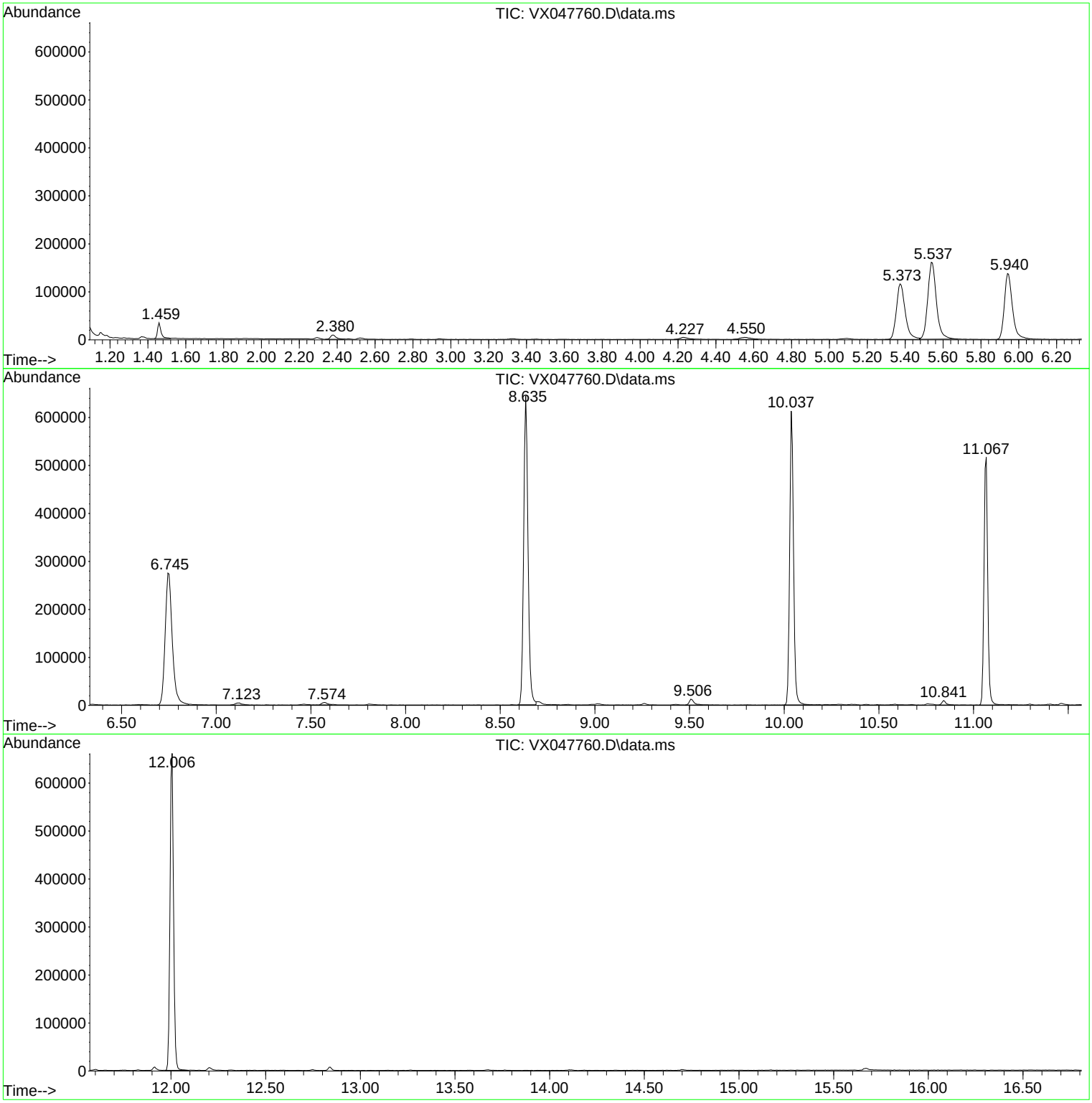
Sample Results: **VX047760.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047760.D
Acq On : 24 Sep 2025 08:22
Operator : JC/MD
Sample : Q3141-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047760.D
Acq On : 24 Sep 2025 08:22
Operator : JC/MD
Sample : Q3141-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047760.D
Acq On : 24 Sep 2025 08:22
Operator : JC/MD
Sample : Q3141-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-100-102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-150-152	SDG No.:	Q3141
Lab Sample ID:	Q3141-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047732.D	1	09/23/25 14:49	VX092325

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	6.40		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.37	J	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	0.60	J	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:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-150-152	SDG No.:	Q3141
Lab Sample ID:	Q3141-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047732.D	1	09/23/25 14:49	VX092325

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	50.8		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	145000	5.544				
540-36-3	1,4-Difluorobenzene	301000	6.751				
3114-55-4	Chlorobenzene-d5	306000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	153000	12.006				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-150-152	SDG No.:	Q3141
Lab Sample ID:	Q3141-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047732.D	1	09/23/25 14:49	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-43-4	Dichlorofluoromethane	N.D					

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\VX092325\
Data File : VX047732.D
Acq On : 23 Sep 2025 14:49
Operator : JC/MD
Sample : Q3141-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Quant Time: Sep 24 01:33:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

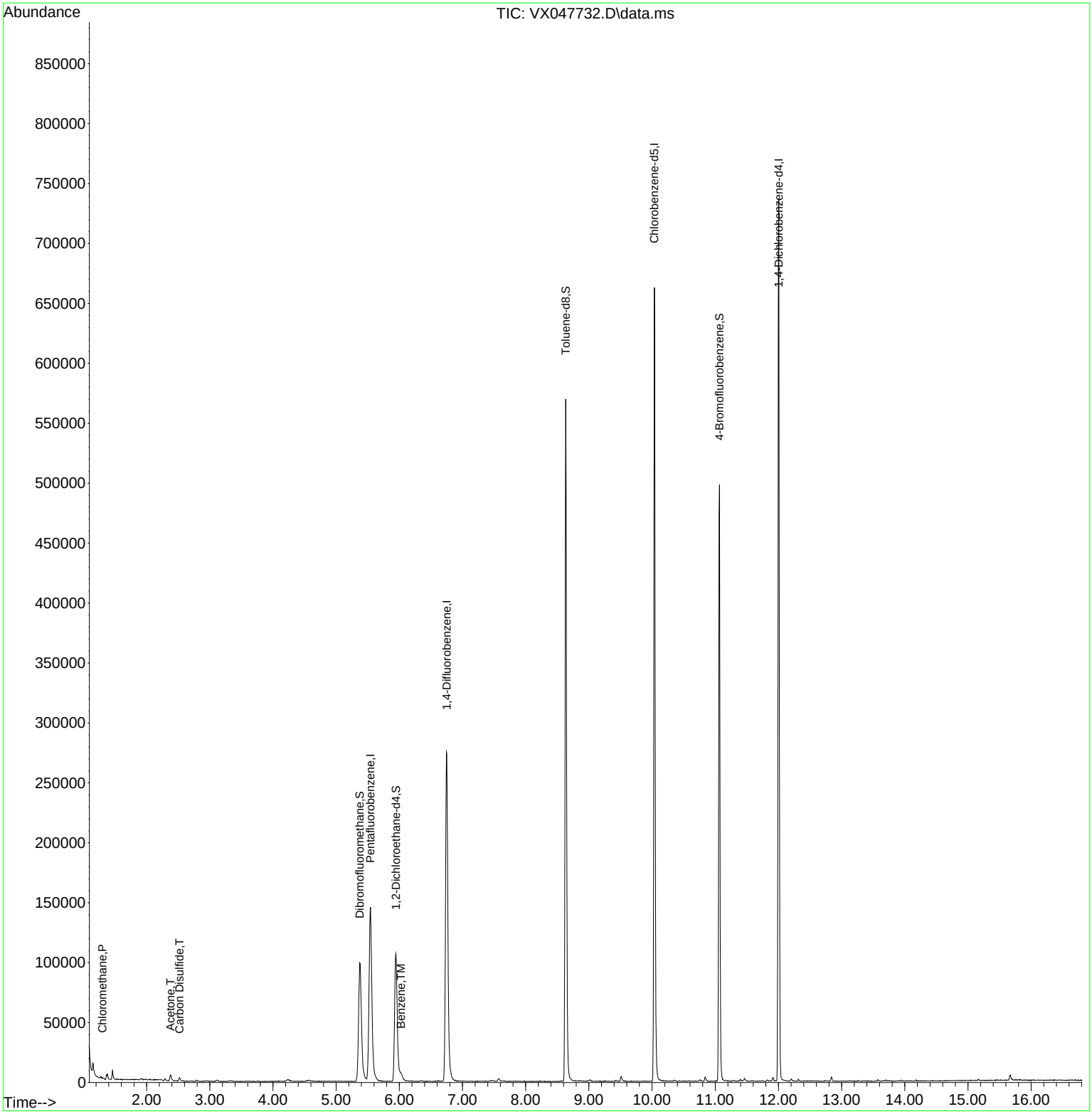
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	145260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	301134	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	306124	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	153459	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	117435	50.790	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.580%			
35) Dibromofluoromethane	5.373	113	97767	48.410	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.820%			
50) Toluene-d8	8.635	98	340540	48.731	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.460%			
62) 4-Bromofluorobenzene	11.067	95	144734	54.573	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.140%			
Target Compounds						Qvalue
3) Chloromethane	1.301	50	563	0.285	ug/l #	83
16) Acetone	2.380	43	6460	6.426	ug/l	96
17) Carbon Disulfide	2.520	76	1735	0.367	ug/l	96
40) Benzene	6.025	78	5391	0.601	ug/l	98

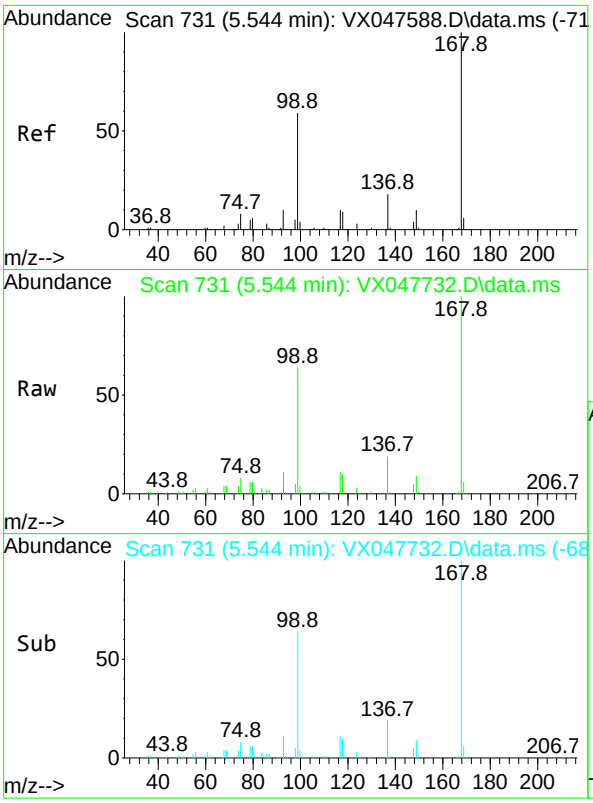
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047732.D
Acq On : 23 Sep 2025 14:49
Operator : JC/MD
Sample : Q3141-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Quant Time: Sep 24 01:33:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



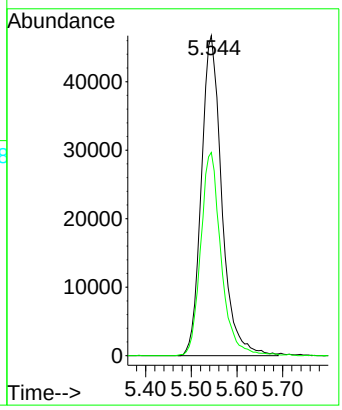


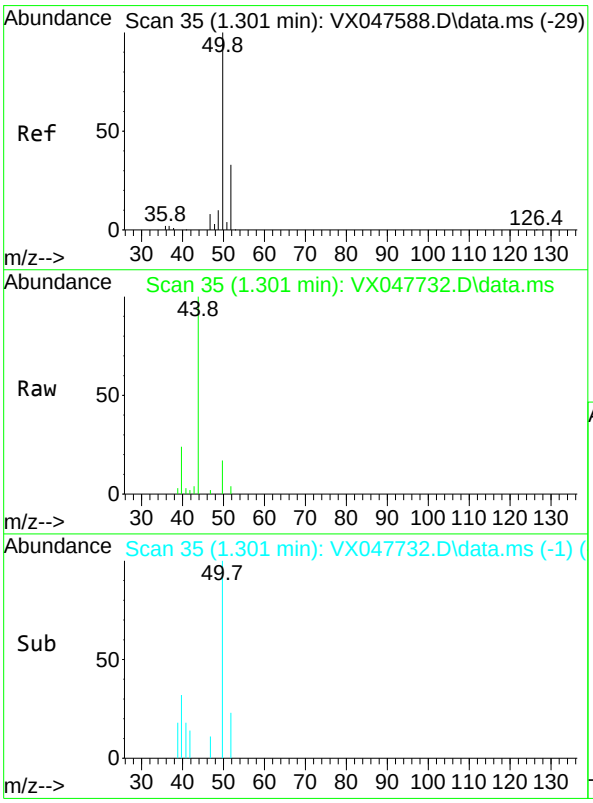
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Tgt Ion:168 Resp: 145260

Ion	Ratio	Lower	Upper
168	100		
99	63.4	48.8	73.2

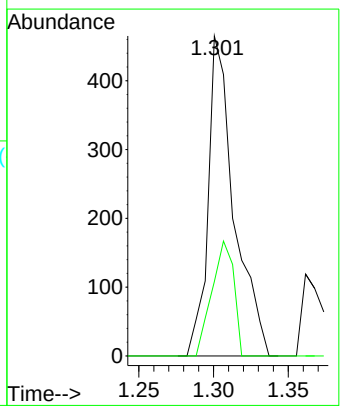


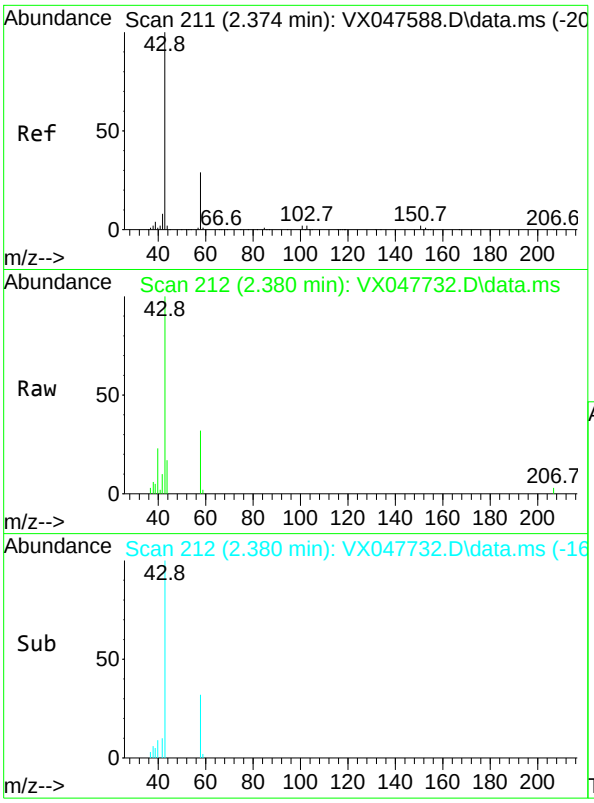


#3
Chloromethane
Concen: 0.285 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Tgt Ion: 50 Resp: 563

Ion	Ratio	Lower	Upper
50	100		
52	23.2	26.1	39.1#



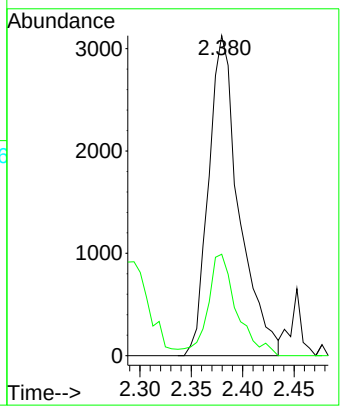


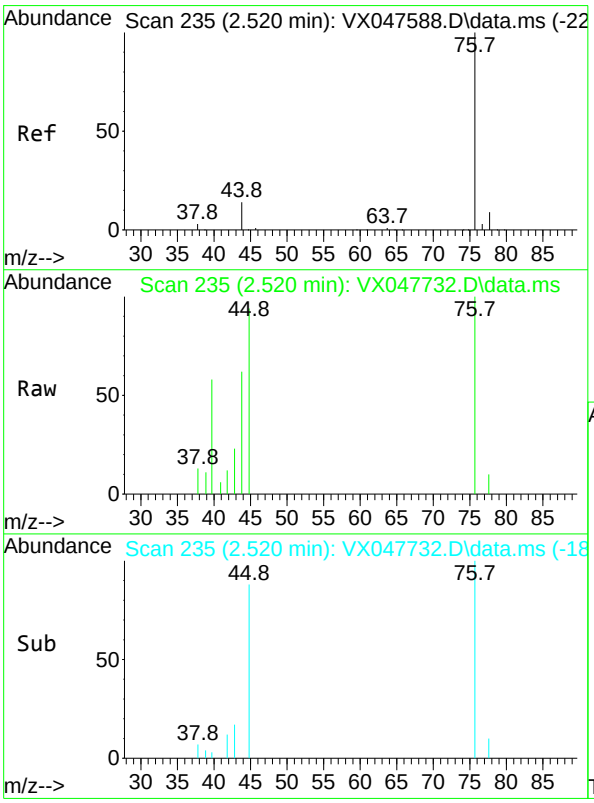
#16
Acetone
Concen: 6.426 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Tgt Ion: 43 Resp: 6460

Ion	Ratio	Lower	Upper
43	100		
58	27.1	23.4	35.0

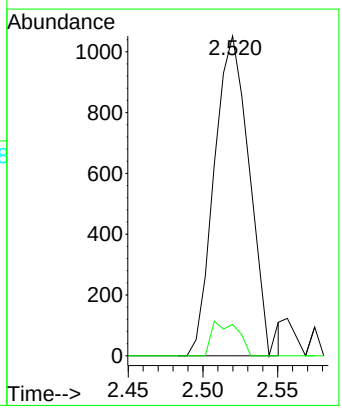


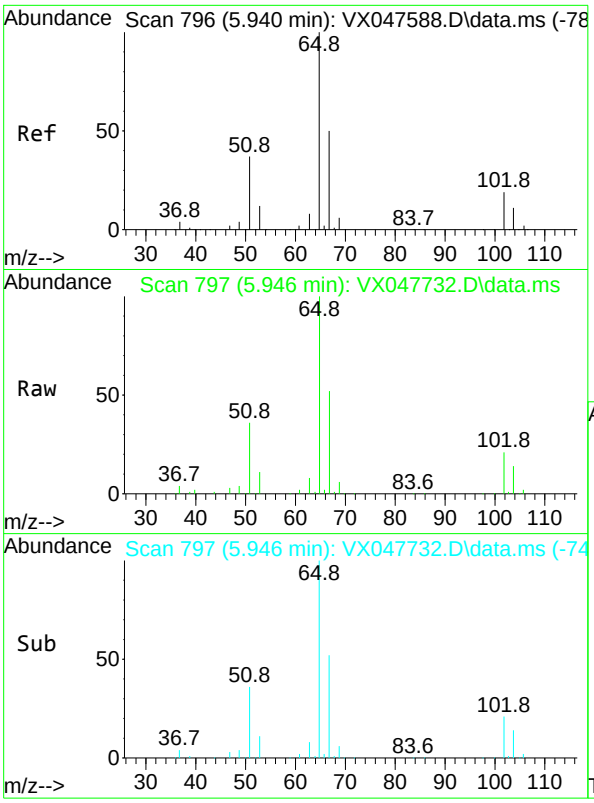


#17
Carbon Disulfide
Concen: 0.367 ug/l
RT: 2.520 min Scan# 235
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Tgt Ion: 76 Resp: 1735

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.8	10.2



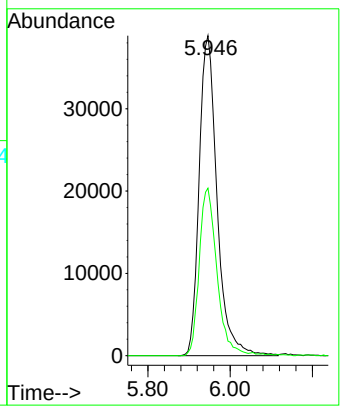


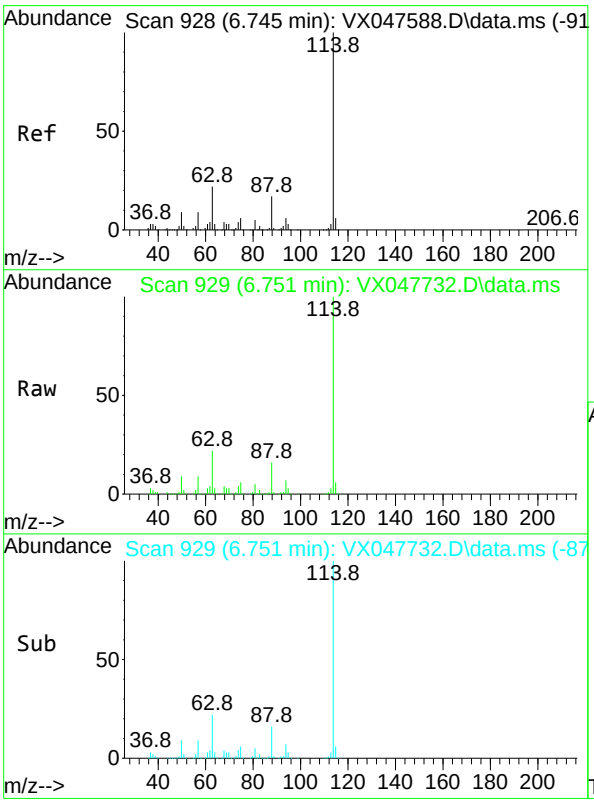
#33
1,2-Dichloroethane-d4
Concen: 50.790 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Tgt Ion: 65 Resp: 117435

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.0

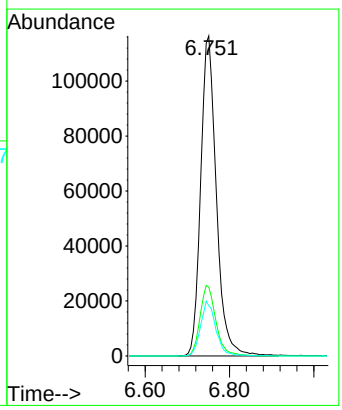


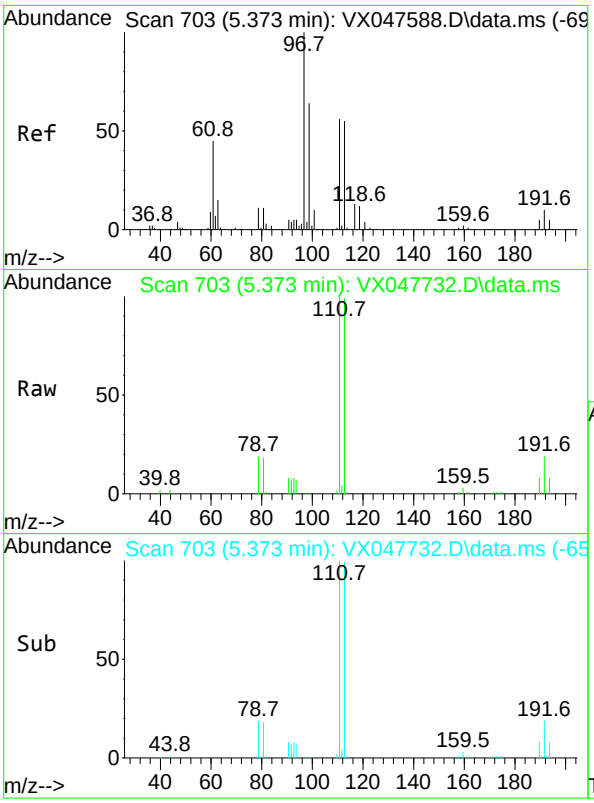


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Tgt Ion:114 Resp: 301134

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	44.0
88	15.7	0.0	34.2



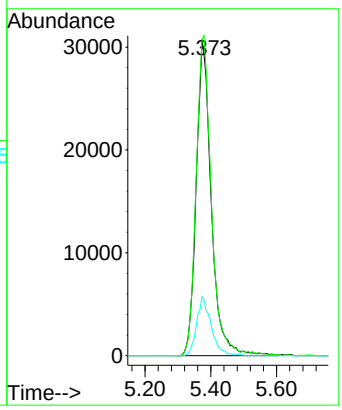


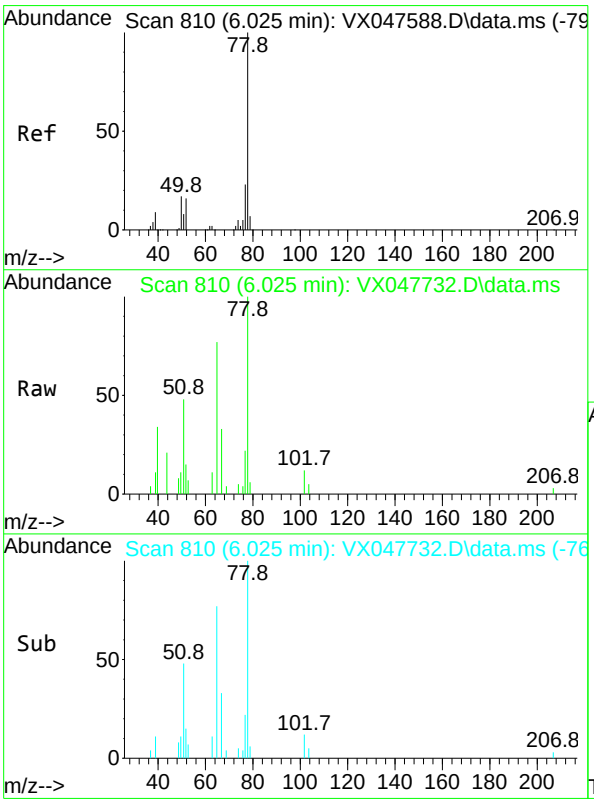
#35
Dibromofluoromethane
Concen: 48.410 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Tgt Ion:113 Resp: 97767

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	18.0	14.2	21.4

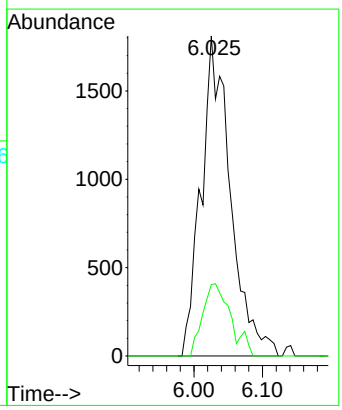


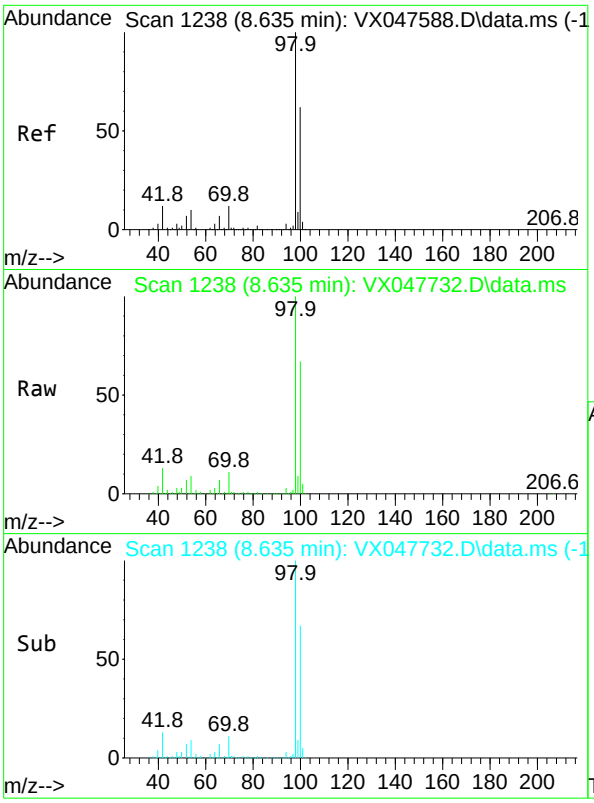


#40
Benzene
Concen: 0.601 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Tgt Ion: 78 Resp: 5391

Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.8	28.2



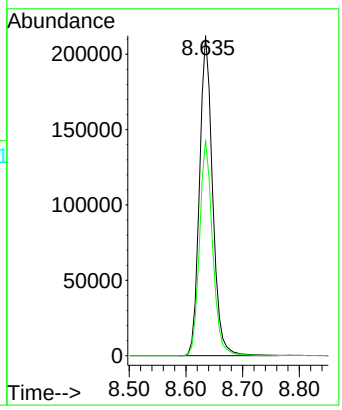


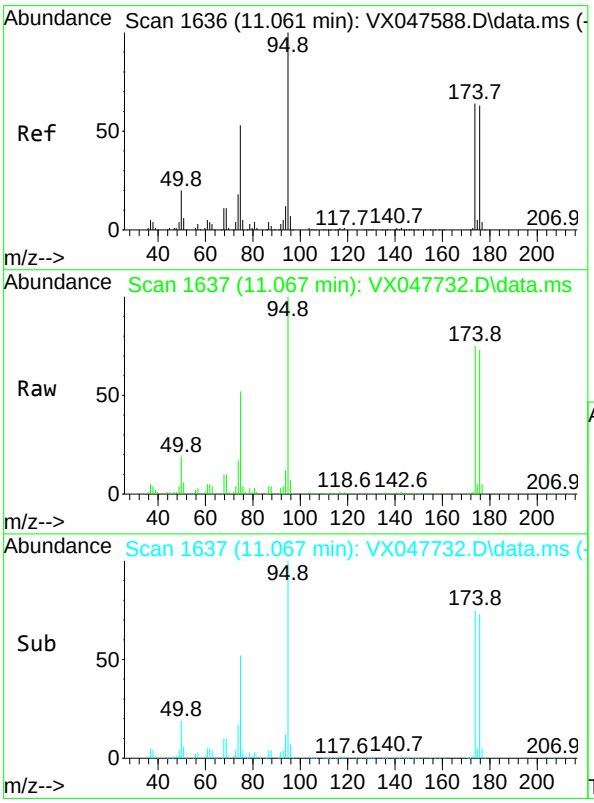
#50
Toluene-d8
Concen: 48.731 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Tgt Ion: 98 Resp: 340540

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

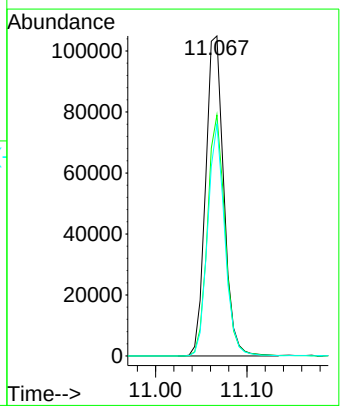


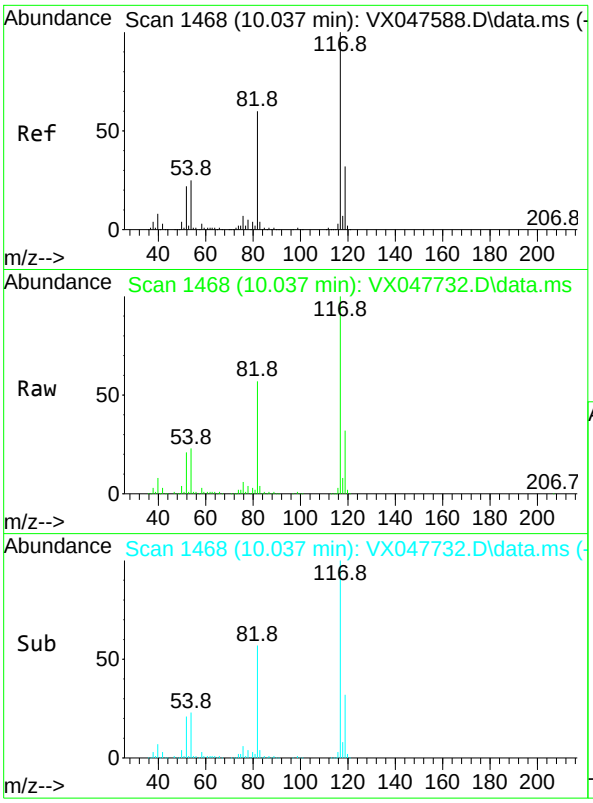


#62
4-Bromofluorobenzene
Concen: 54.573 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Tgt Ion: 95 Resp: 144734

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	67.9	0.0	138.4



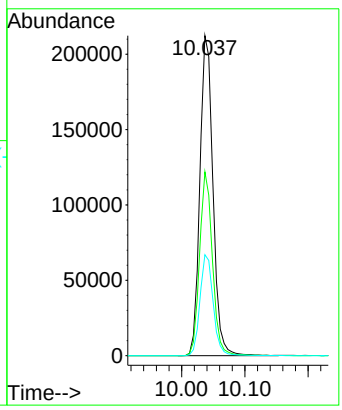


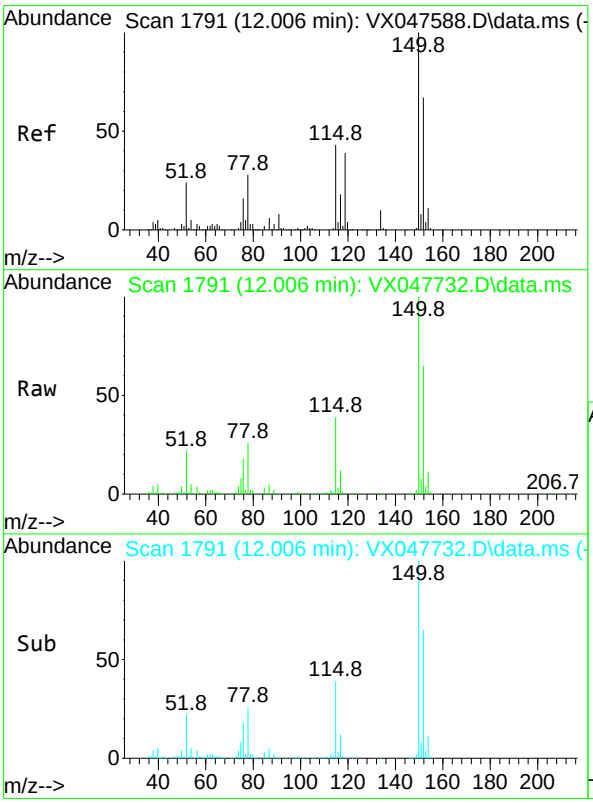
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Tgt Ion:117 Resp: 306124

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.8	71.6
119	31.6	25.2	37.8

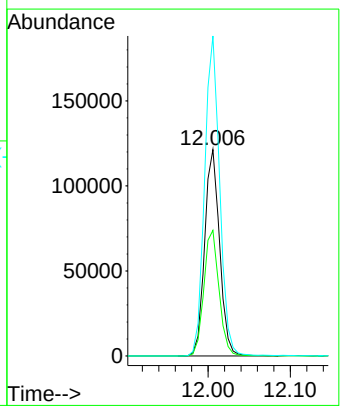




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047732.D
Acq: 23 Sep 2025 14:49

Tgt Ion:152 Resp: 153459

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.9	134.5
150	155.9	0.0	352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047732.D
Acq On : 23 Sep 2025 14:49
Operator : JC/MD
Sample : Q3141-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047732.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.148	8	10	21	rVB2	11389	18658	1.95%	0.349%
2	2.380	208	212	221	rVB	5059	9629	1.01%	0.180%
3	5.373	692	703	721	rBV4	98860	317534	33.15%	5.933%
4	5.544	721	731	751	rVB	144710	446107	46.58%	8.335%
5	5.946	787	797	821	rBV	106215	329664	34.42%	6.160%
6	6.745	918	928	951	rBV	274596	721025	75.28%	13.472%
7	8.635	1231	1238	1261	rBV	569051	920975	96.16%	17.208%
8	10.037	1462	1468	1490	rVB	661971	950387	99.23%	17.758%
9	11.067	1631	1637	1649	rBV	497666	680216	71.02%	12.710%
10	12.006	1785	1791	1808	rBV	735932	957790	100.00%	17.896%

Sum of corrected areas: 5351985

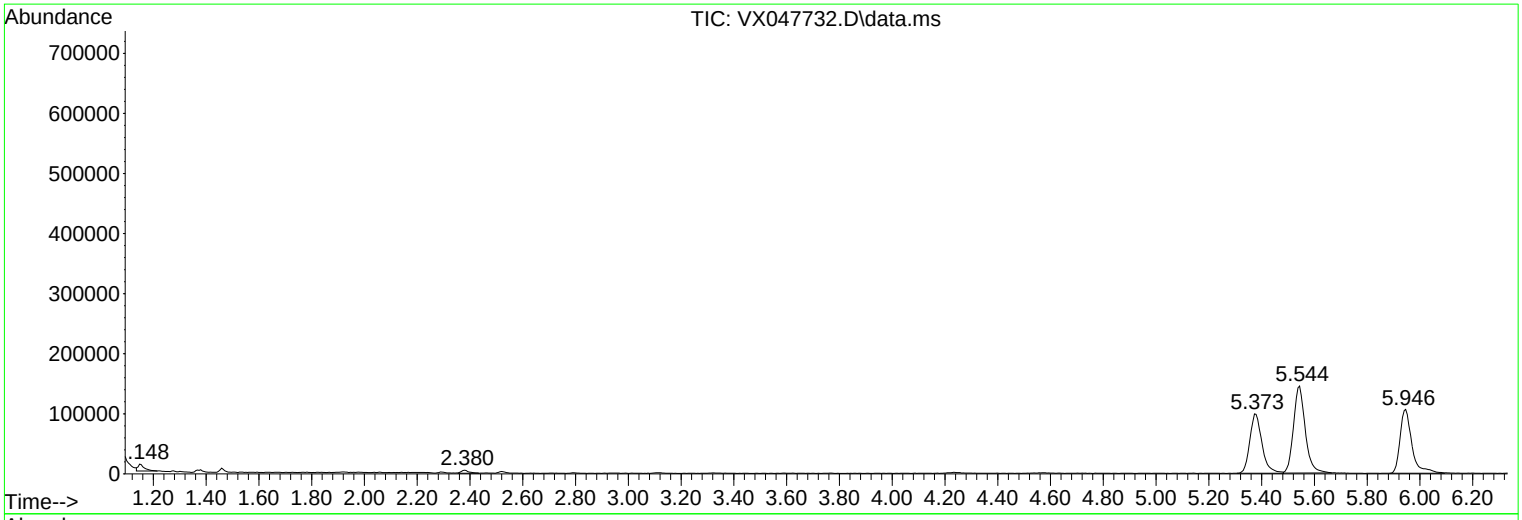
Sample Results: **VX047732.D**

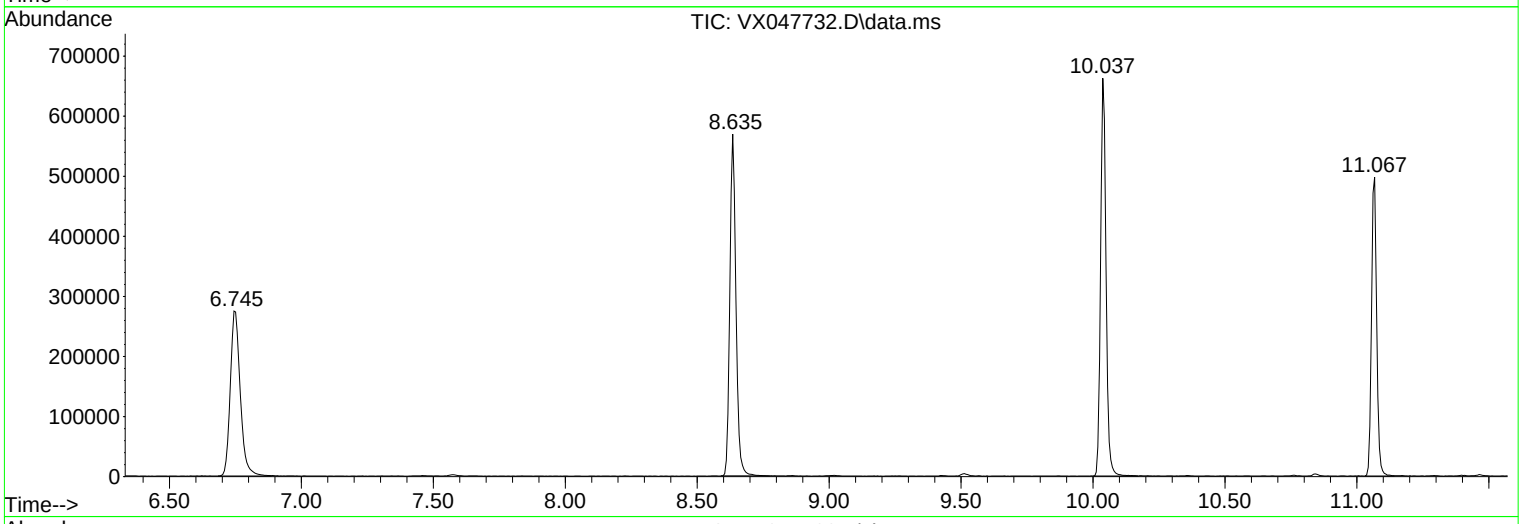
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047732.D
Acq On : 23 Sep 2025 14:49
Operator : JC/MD
Sample : Q3141-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

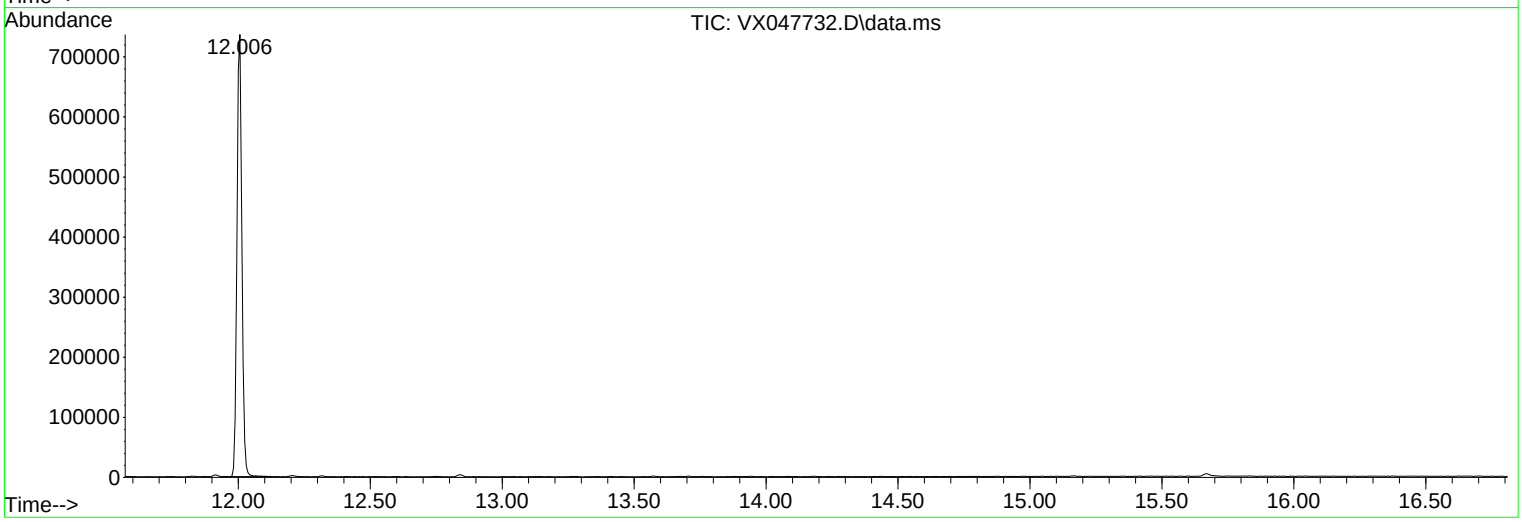
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047732.D
Acq On : 23 Sep 2025 14:49
Operator : JC/MD
Sample : Q3141-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047732.D
Acq On : 23 Sep 2025 14:49
Operator : JC/MD
Sample : Q3141-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-150-152

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-200-202	SDG No.:	Q3141
Lab Sample ID:	Q3141-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047733.D	1	09/23/25 15:10	VX092325

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	10.1		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:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-200-202	SDG No.:	Q3141
Lab Sample ID:	Q3141-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047733.D	1	09/23/25 15:10	VX092325

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	52.0		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	49.3		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.5		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	142000	5.544				
540-36-3	1,4-Difluorobenzene	301000	6.745				
3114-55-4	Chlorobenzene-d5	298000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	146000	12.006				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-200-202	SDG No.:	Q3141
Lab Sample ID:	Q3141-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047733.D	1	09/23/25 15:10	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-43-4	Dichlorofluoromethane	N.D					

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\VX092325\
Data File : VX047733.D
Acq On : 23 Sep 2025 15:10
Operator : JC/MD
Sample : Q3141-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Quant Time: Sep 24 01:34:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

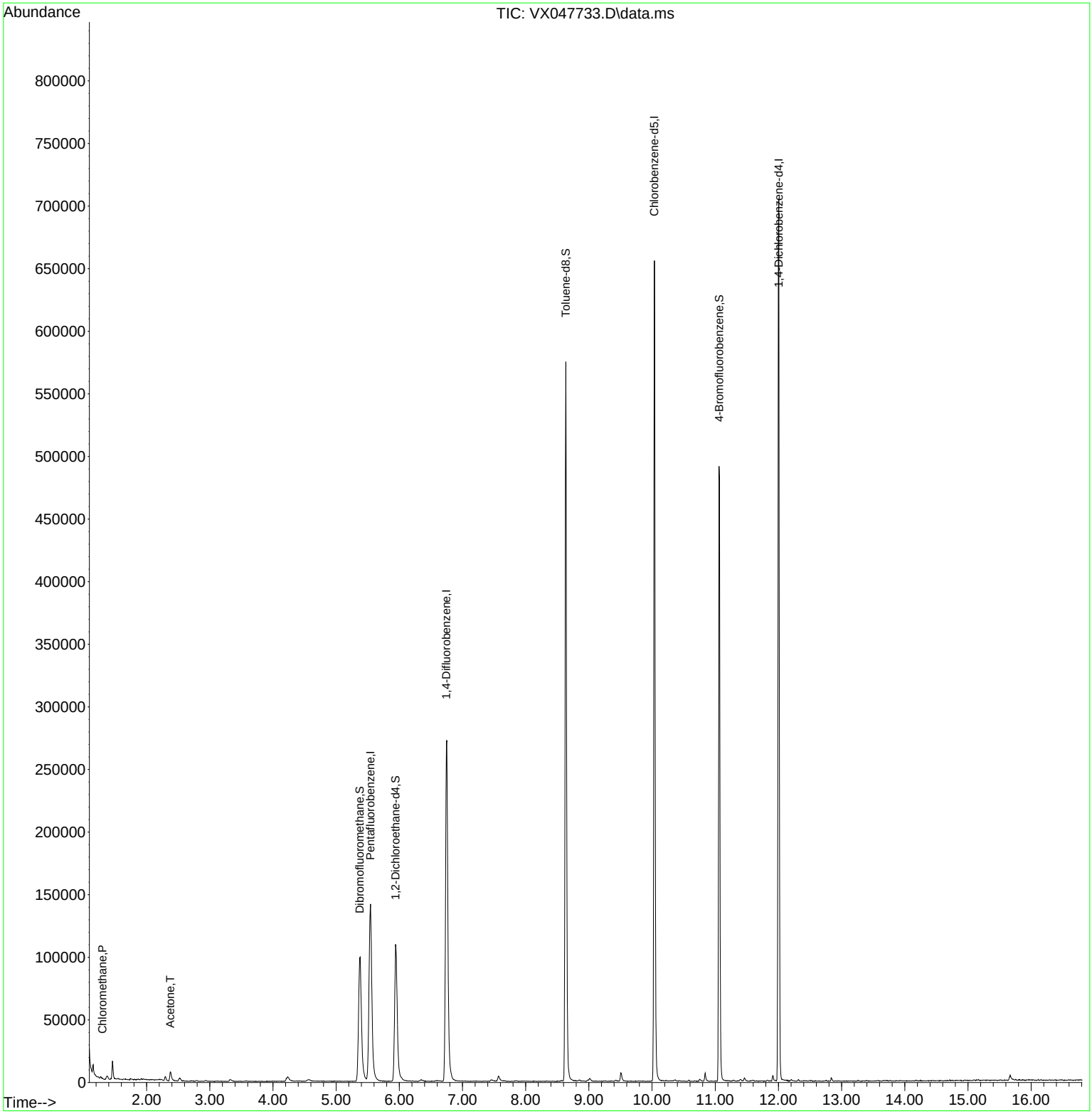
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	141844	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	300954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	146402	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	117468	52.028	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.060%			
35) Dibromofluoromethane	5.373	113	97776	48.443	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.880%			
50) Toluene-d8	8.635	98	344134	49.275	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.560%			
62) 4-Bromofluorobenzene	11.061	95	144555	54.538	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.080%			
Target Compounds						Qvalue
3) Chloromethane	1.301	50	577	0.299	ug/l #	80
16) Acetone	2.373	43	9905	10.090	ug/l	98

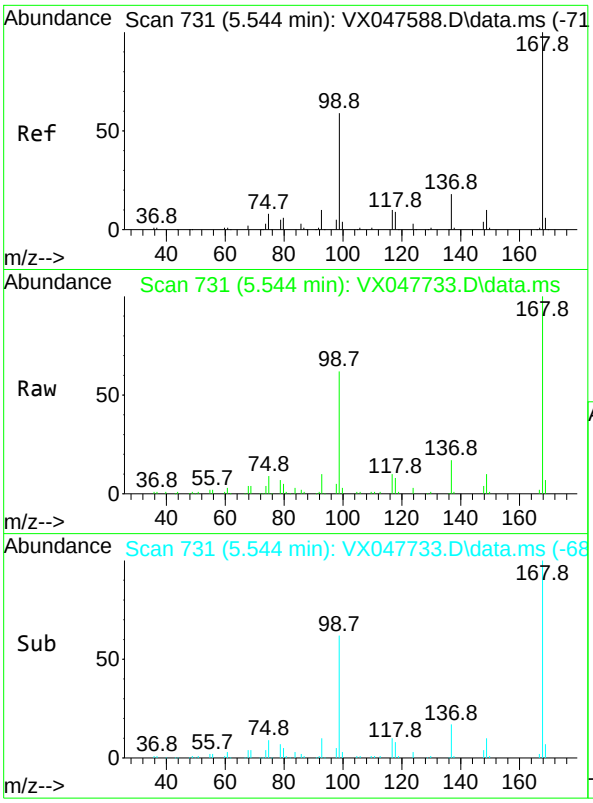
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047733.D
Acq On : 23 Sep 2025 15:10
Operator : JC/MD
Sample : Q3141-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Quant Time: Sep 24 01:34:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



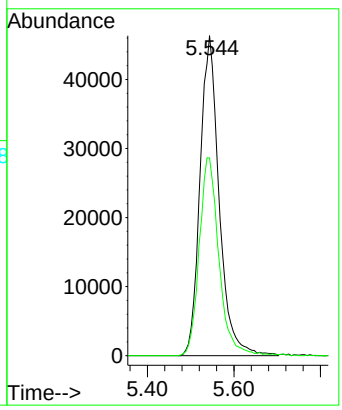


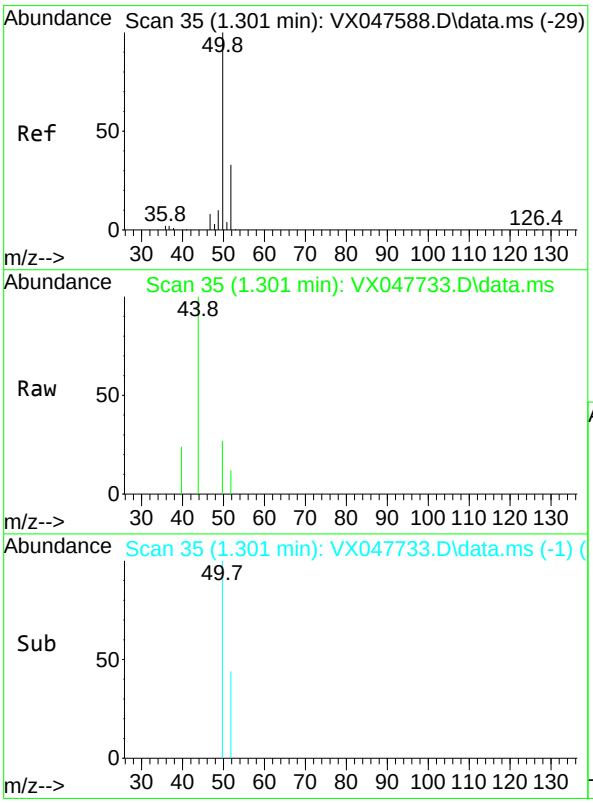
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Tgt Ion:168 Resp: 141844

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.8	73.2

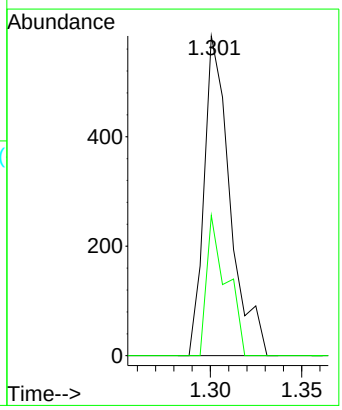


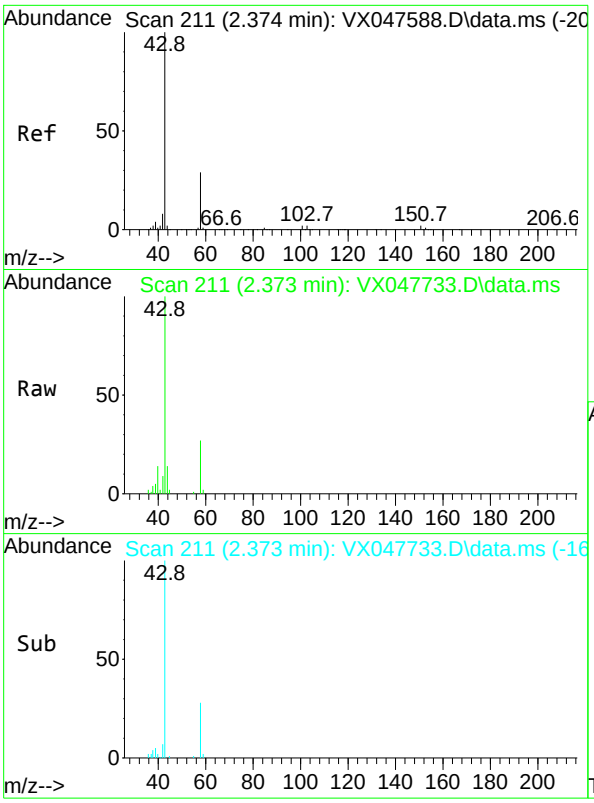


#3
Chloromethane
Concen: 0.299 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Tgt Ion: 50 Resp: 577

Ion	Ratio	Lower	Upper
50	100		
52	43.8	26.1	39.1#



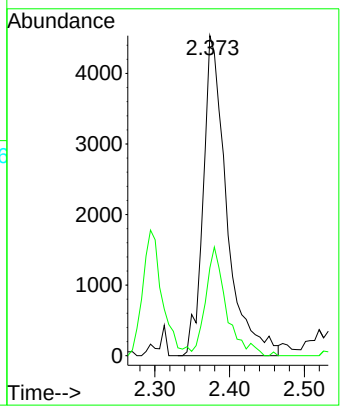


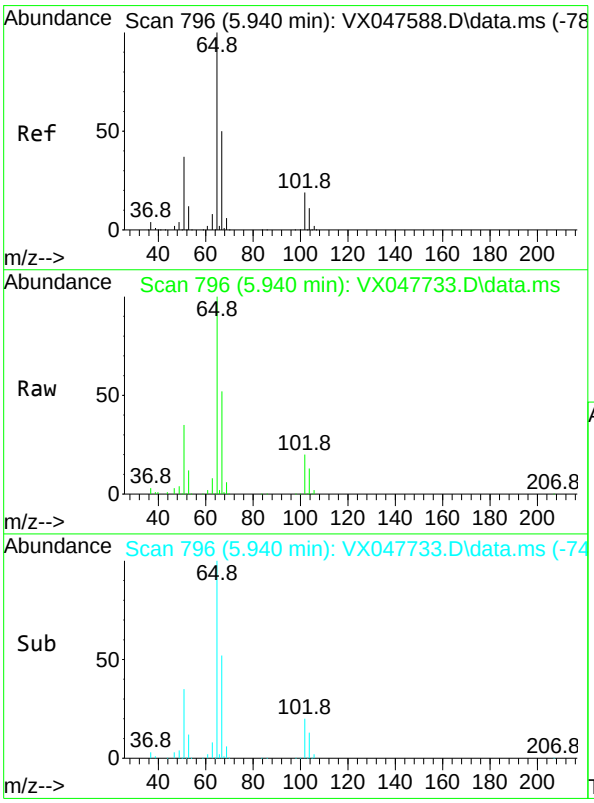
#16
Acetone
Concen: 10.090 ug/l
RT: 2.373 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Tgt Ion: 43 Resp: 9905

Ion	Ratio	Lower	Upper
43	100		
58	28.3	23.4	35.0

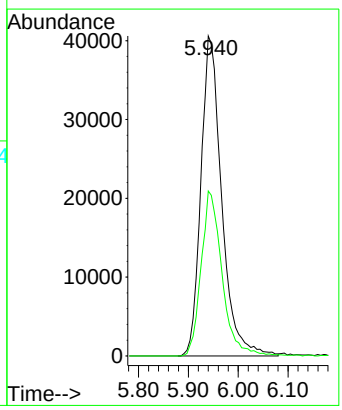


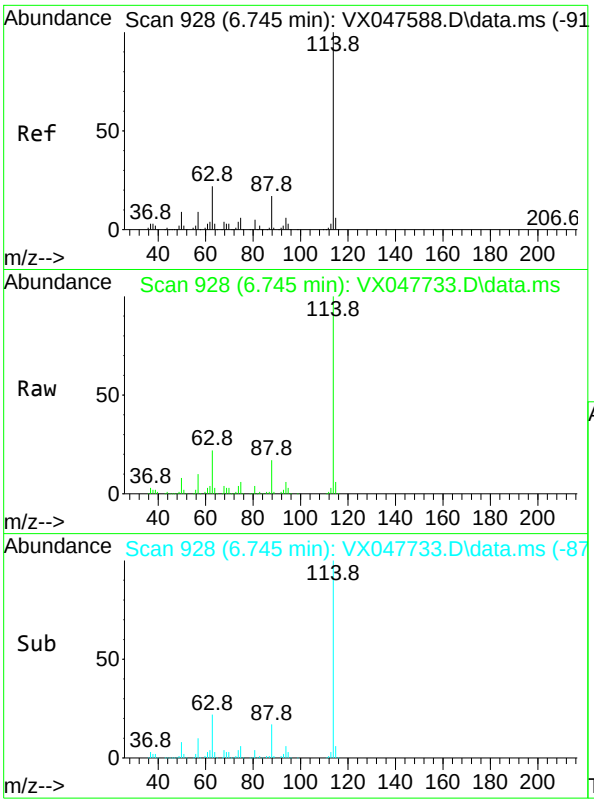


#33
1,2-Dichloroethane-d4
Concen: 52.028 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Tgt Ion: 65 Resp: 117468

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.0



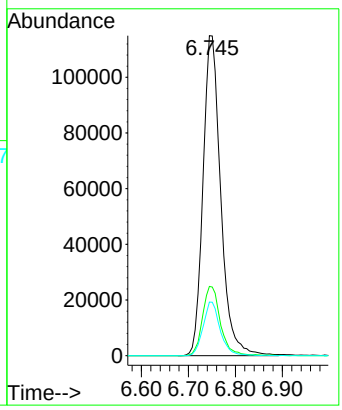


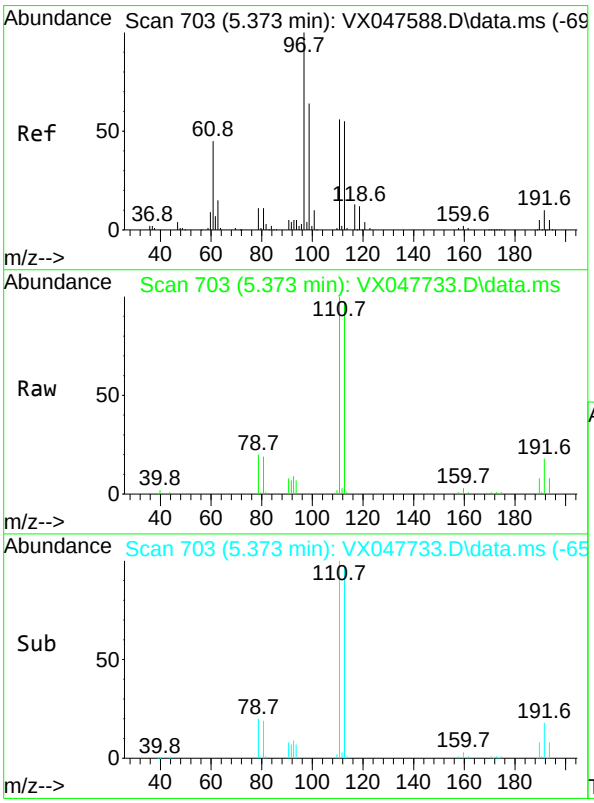
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Tgt Ion:114 Resp: 300954

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	44.0
88	16.8	0.0	34.2

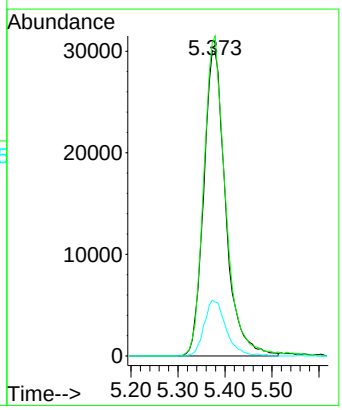


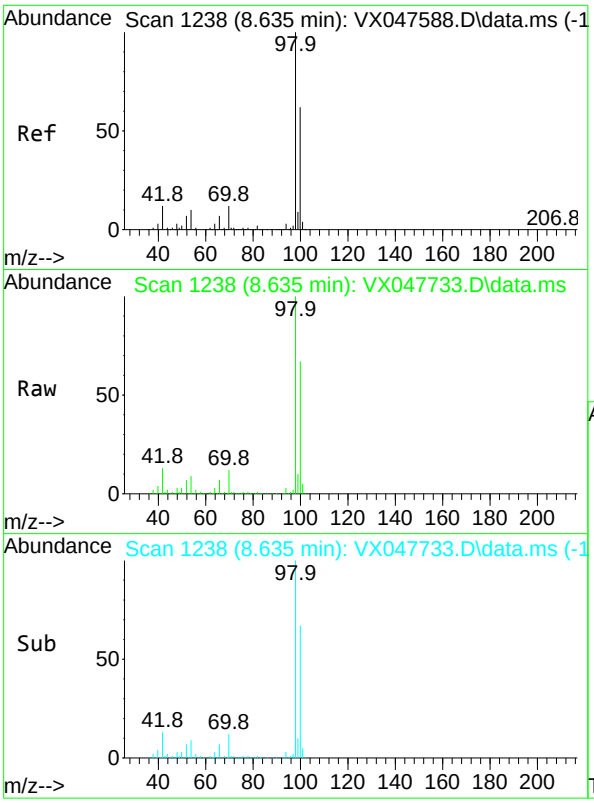


#35
Dibromofluoromethane
Concen: 48.443 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Tgt Ion:113 Resp: 97776

Ion	Ratio	Lower	Upper
113	100		
111	103.5	80.9	121.3
192	17.9	14.2	21.4



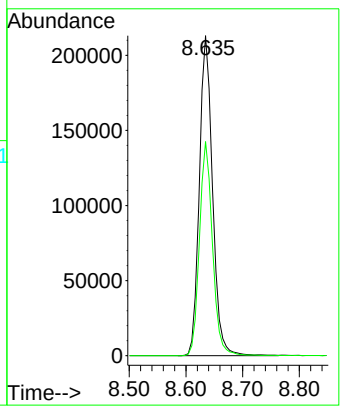


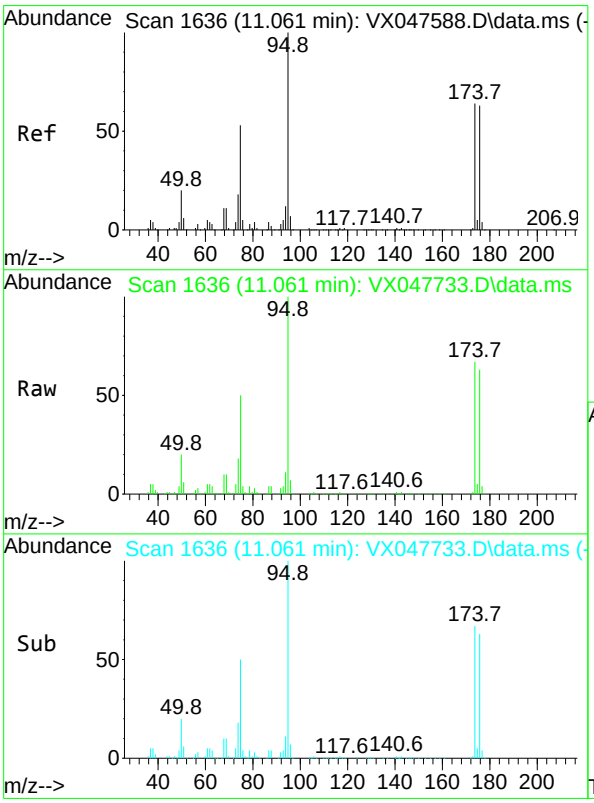
#50
Toluene-d8
Concen: 49.275 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Tgt Ion: 98 Resp: 344134

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4

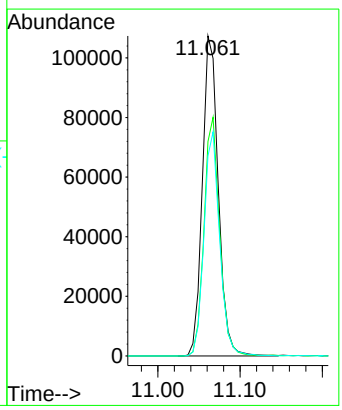


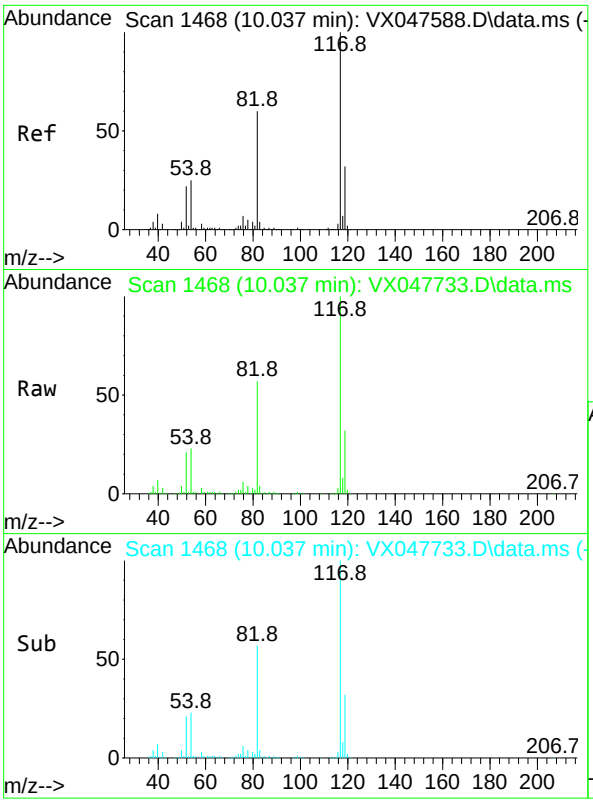


#62
4-Bromofluorobenzene
Concen: 54.538 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Tgt Ion: 95 Resp: 144555

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	141.6
176	69.1	0.0	138.4



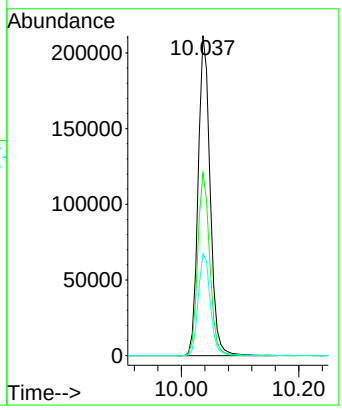


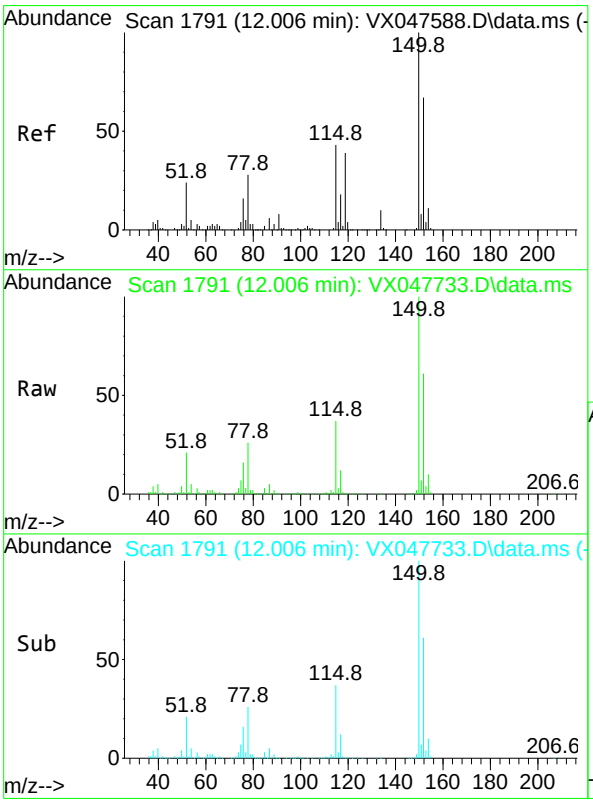
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Tgt Ion:117 Resp: 298268

Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.8	71.6
119	31.9	25.2	37.8

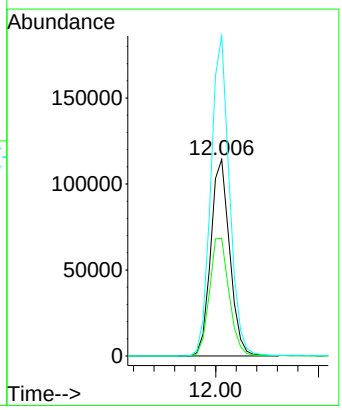




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047733.D
Acq: 23 Sep 2025 15:10

Tgt Ion:152 Resp: 146402

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.9	134.5
150	159.6	0.0	352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047733.D
Acq On : 23 Sep 2025 15:10
Operator : JC/MD
Sample : Q3141-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047733.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.154	8	11	23	rVB2	9803	15719	1.69%	0.295%
2	1.459	55	61	68	rBV	14750	19821	2.13%	0.372%
3	2.380	207	212	223	rBV4	7156	14884	1.60%	0.279%
4	4.233	507	516	531	rBV4	3680	12570	1.35%	0.236%
5	5.379	693	704	720	rBV3	99194	319717	34.33%	6.002%
6	5.544	720	731	753	rVB	141144	439636	47.21%	8.253%
7	5.940	786	796	819	rBV	109401	320030	34.36%	6.008%
8	6.751	918	929	952	rBV	272435	712689	76.53%	13.378%
9	8.635	1231	1238	1257	rBV	574481	925575	99.39%	17.375%
10	9.506	1377	1381	1390	rBV4	6606	11663	1.25%	0.219%
11	10.037	1462	1468	1485	rBV	655251	931302	100.00%	17.482%
12	11.061	1631	1636	1651	rBV	491157	678858	72.89%	12.743%
13	12.006	1785	1791	1799	rBV	704548	924691	99.29%	17.358%

Sum of corrected areas: 5327155

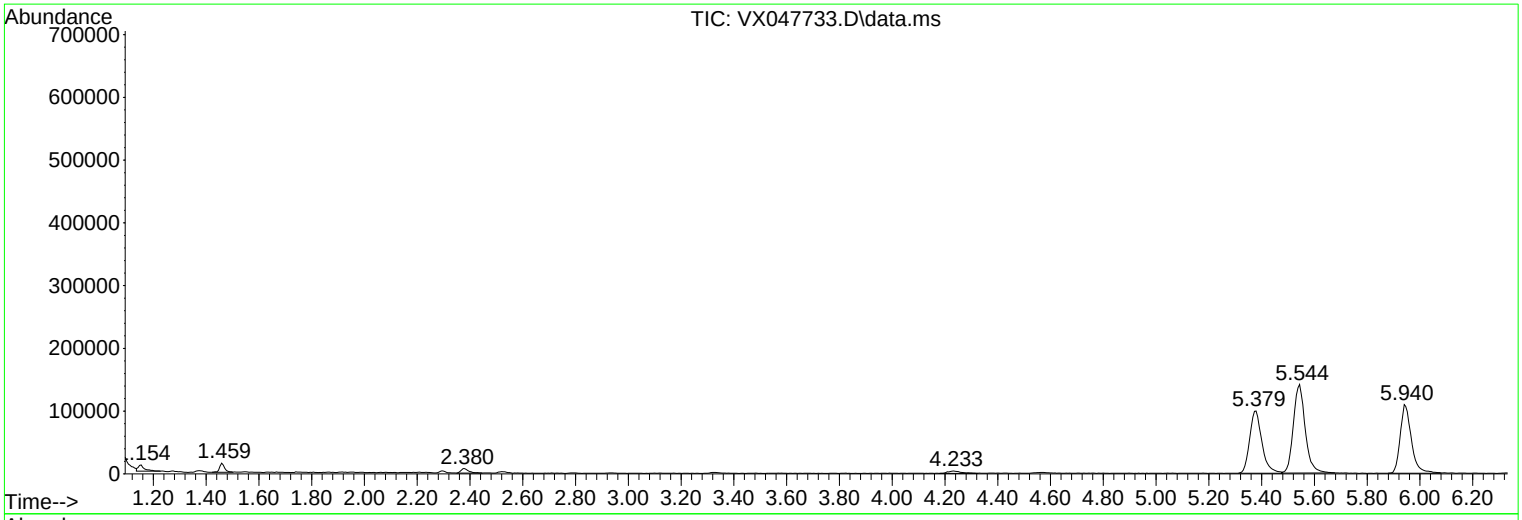
Sample Results: **VX047733.D**

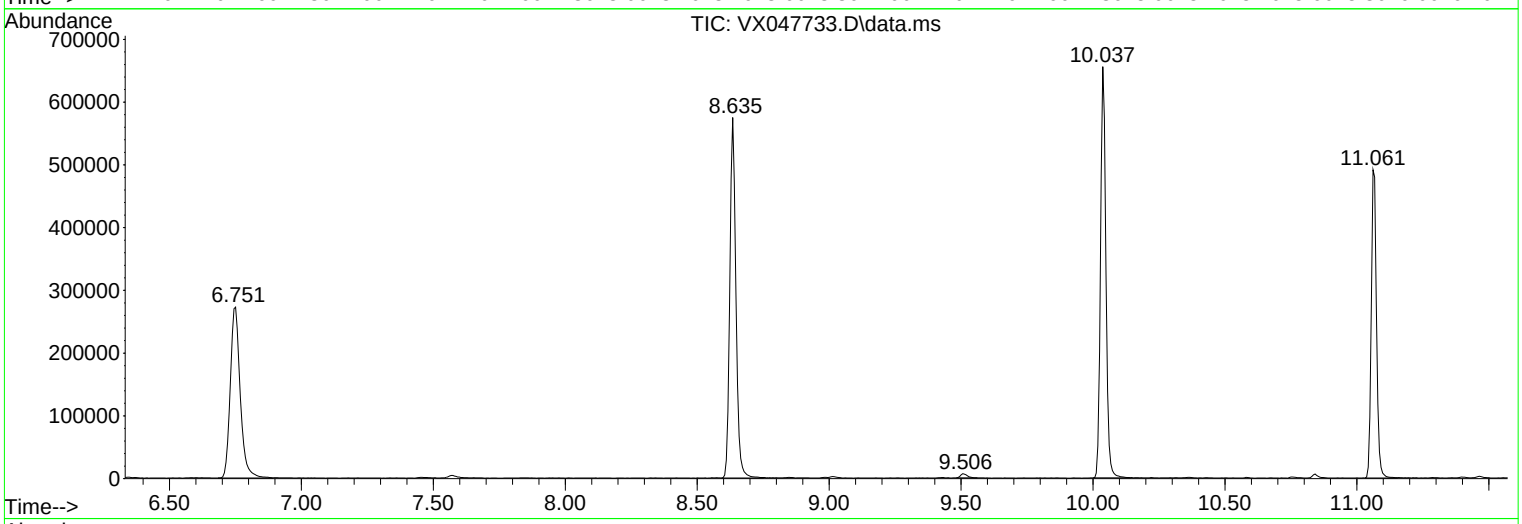
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047733.D
Acq On : 23 Sep 2025 15:10
Operator : JC/MD
Sample : Q3141-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

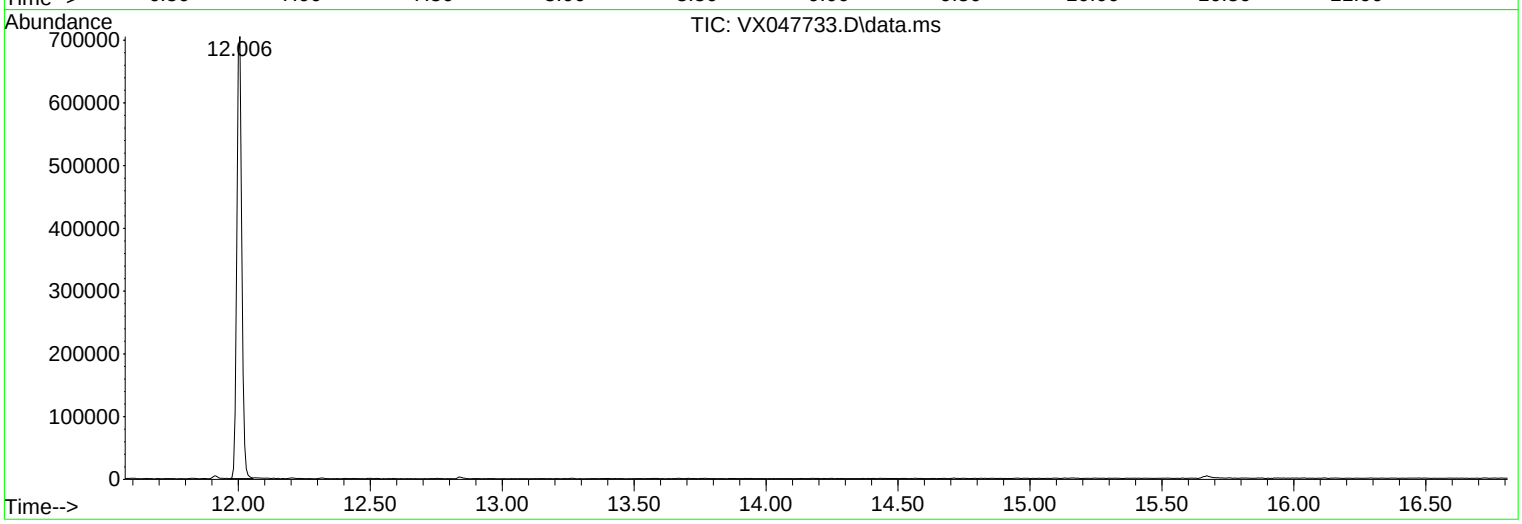
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047733.D
Acq On : 23 Sep 2025 15:10
Operator : JC/MD
Sample : Q3141-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047733.D
Acq On : 23 Sep 2025 15:10
Operator : JC/MD
Sample : Q3141-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-200-202

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-220-222	SDG No.:	Q3141
Lab Sample ID:	Q3141-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047734.D	1	09/23/25 15:31	VX092325

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	0.36	J	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	7.80		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:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-220-222	SDG No.:	Q3141
Lab Sample ID:	Q3141-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047734.D	1	09/23/25 15:31	VX092325

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	50.7		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	47.7		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.0		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.538				
540-36-3	1,4-Difluorobenzene	306000	6.745				
3114-55-4	Chlorobenzene-d5	308000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	158000	12.006				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	BP-VPB-184-GW-220-222	SDG No.:	Q3141
Lab Sample ID:	Q3141-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047734.D	1	09/23/25 15:31	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
75-43-4	Dichlorofluoromethane	N.D					

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\VX092325\
Data File : VX047734.D
Acq On : 23 Sep 2025 15:31
Operator : JC/MD
Sample : Q3141-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Quant Time: Sep 24 01:34:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

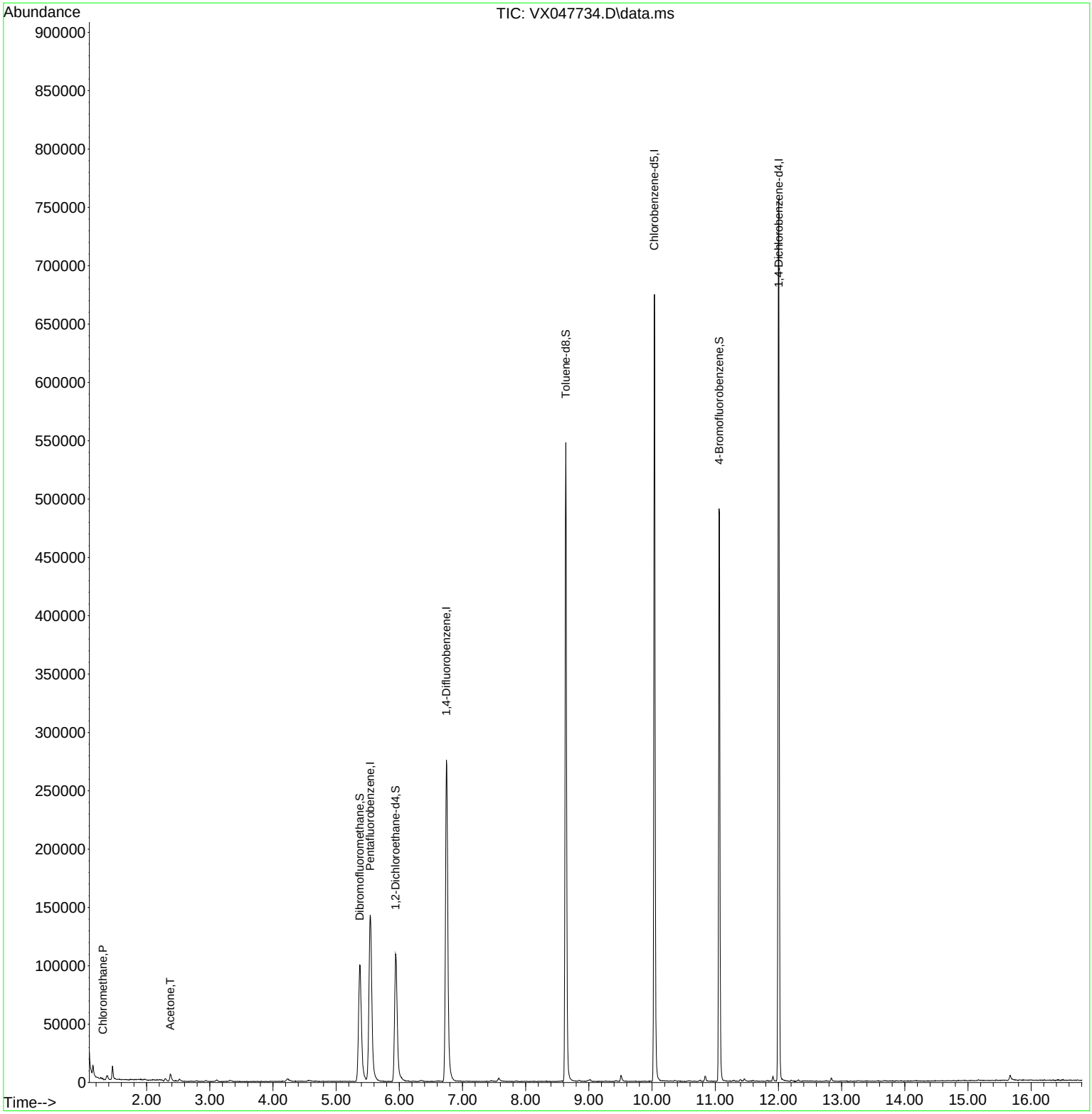
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	147065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	305643	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	308233	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	157643	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	118726	50.718	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.440%			
35) Dibromofluoromethane	5.373	113	97992	47.805	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.620%			
50) Toluene-d8	8.635	98	338041	47.660	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.320%			
62) 4-Bromofluorobenzene	11.061	95	145273	53.968	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.940%			
Target Compounds						Qvalue
3) Chloromethane	1.307	50	727	0.363	ug/l	98
16) Acetone	2.374	43	7912	7.773	ug/l	96

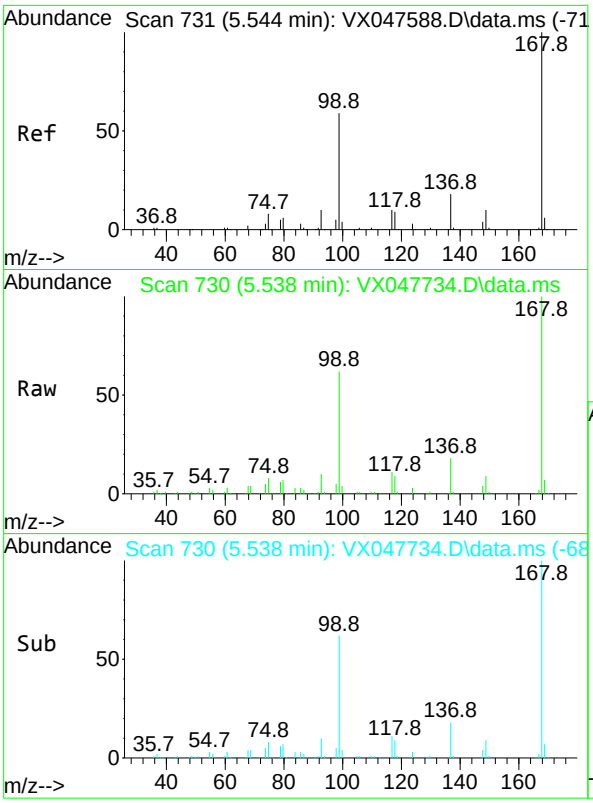
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047734.D
Acq On : 23 Sep 2025 15:31
Operator : JC/MD
Sample : Q3141-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Quant Time: Sep 24 01:34:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



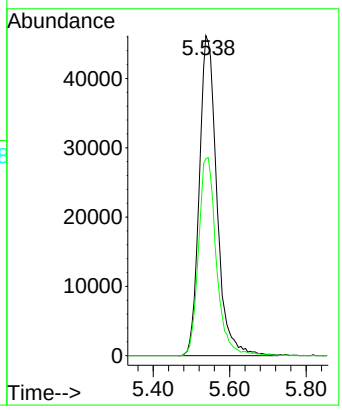


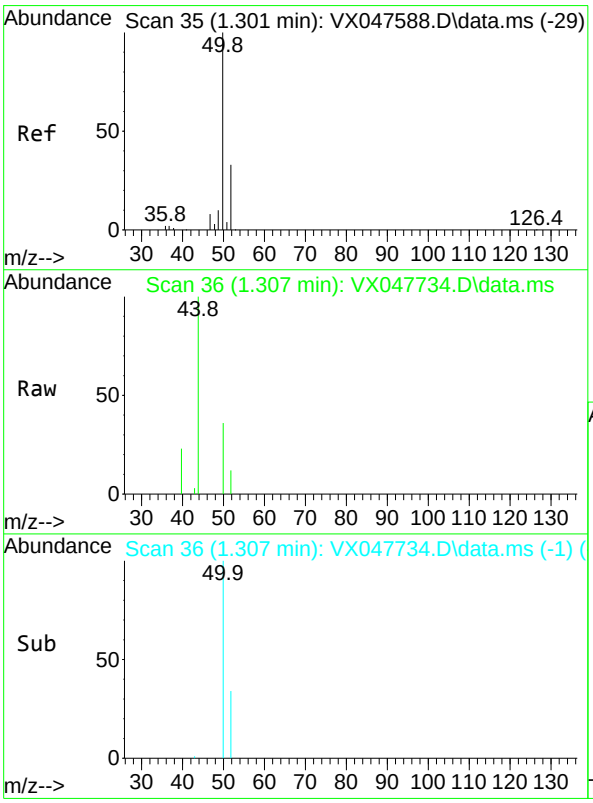
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Tgt Ion:168 Resp: 147065

Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2

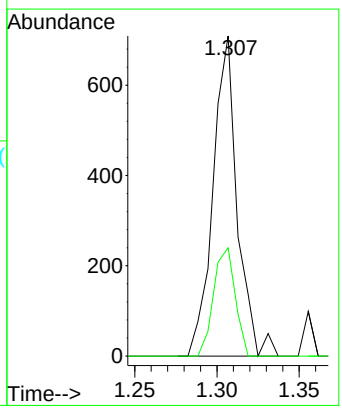


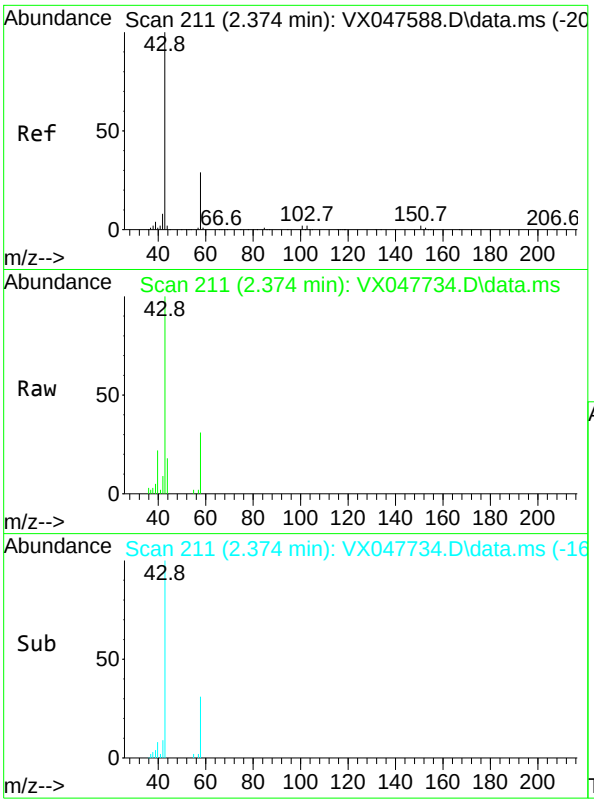


#3
Chloromethane
Concen: 0.363 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.006 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Tgt Ion: 50 Resp: 727

Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.1	39.1



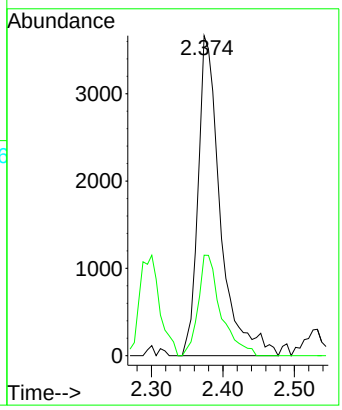


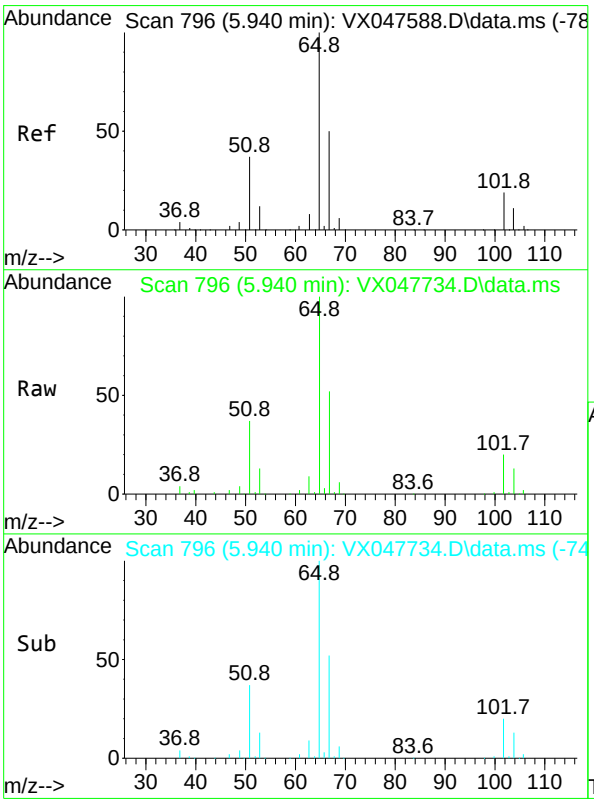
#16
Acetone
Concen: 7.773 ug/l
RT: 2.374 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Tgt Ion: 43 Resp: 7912

Ion	Ratio	Lower	Upper
43	100		
58	31.4	23.4	35.0

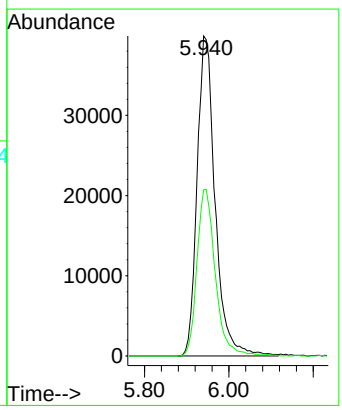


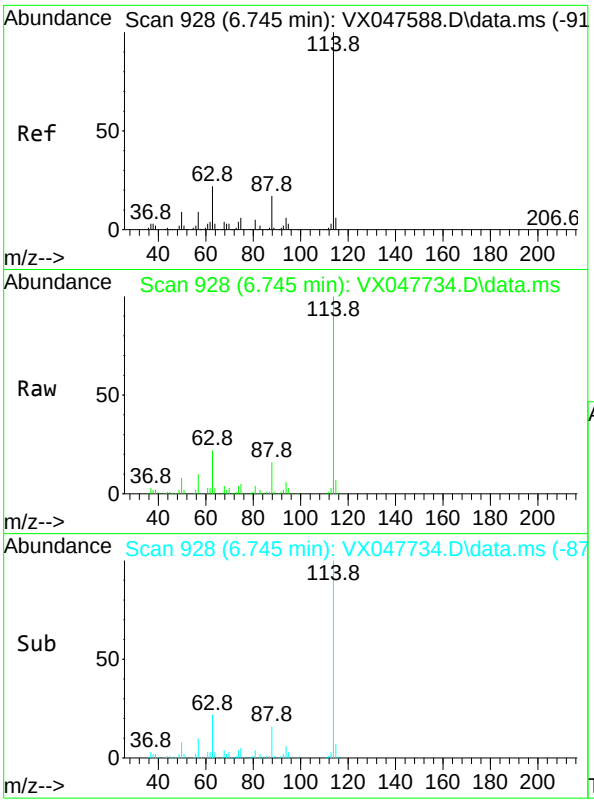


#33
1,2-Dichloroethane-d4
Concen: 50.718 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Tgt Ion: 65 Resp: 118726

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0



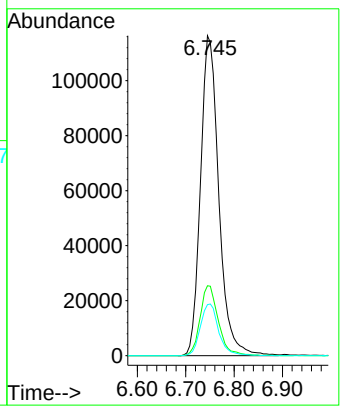


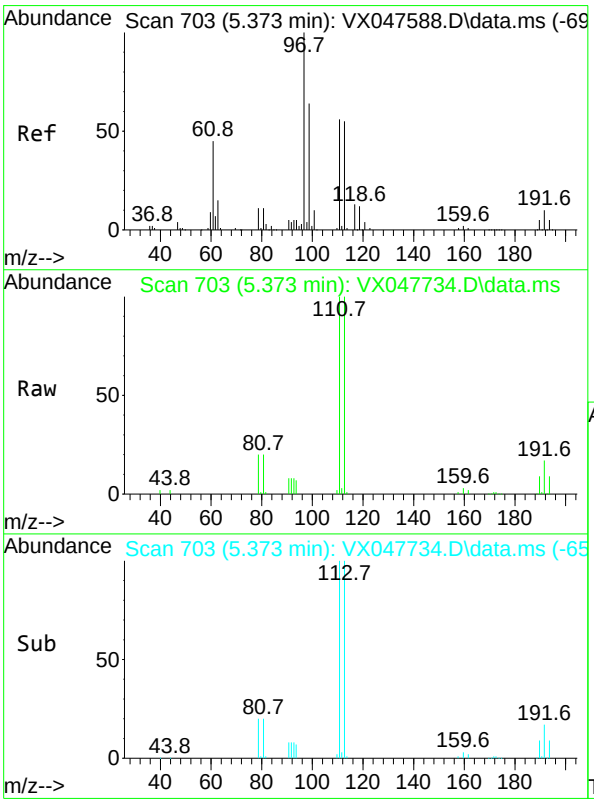
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Tgt Ion:114 Resp: 305643

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	15.9	0.0	34.2

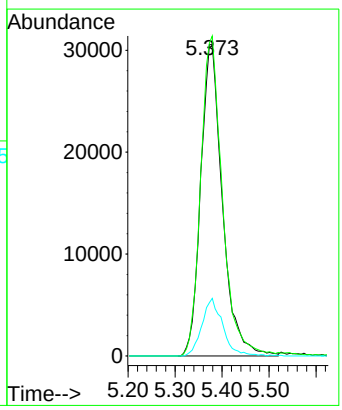


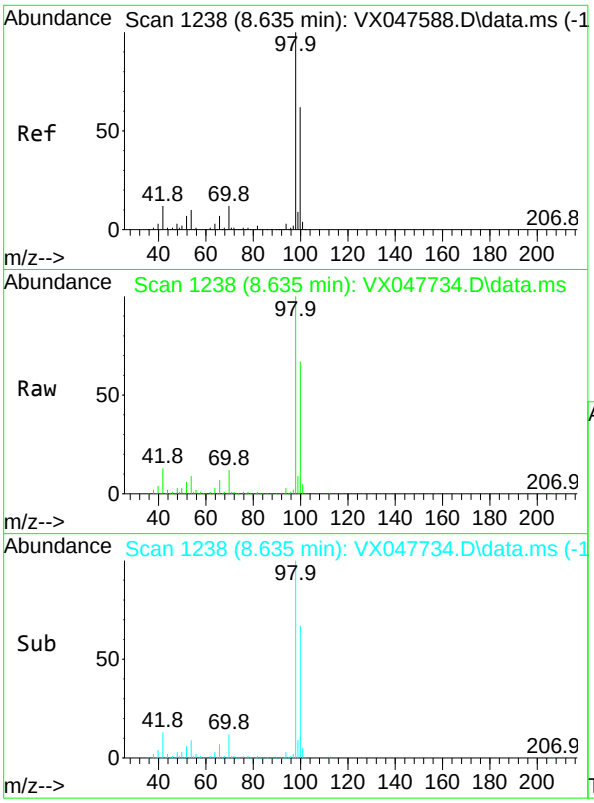


#35
Dibromofluoromethane
Concen: 47.805 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Tgt Ion:113 Resp: 97992

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.9	121.3
192	17.8	14.2	21.4



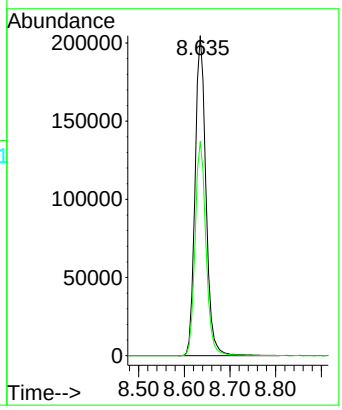


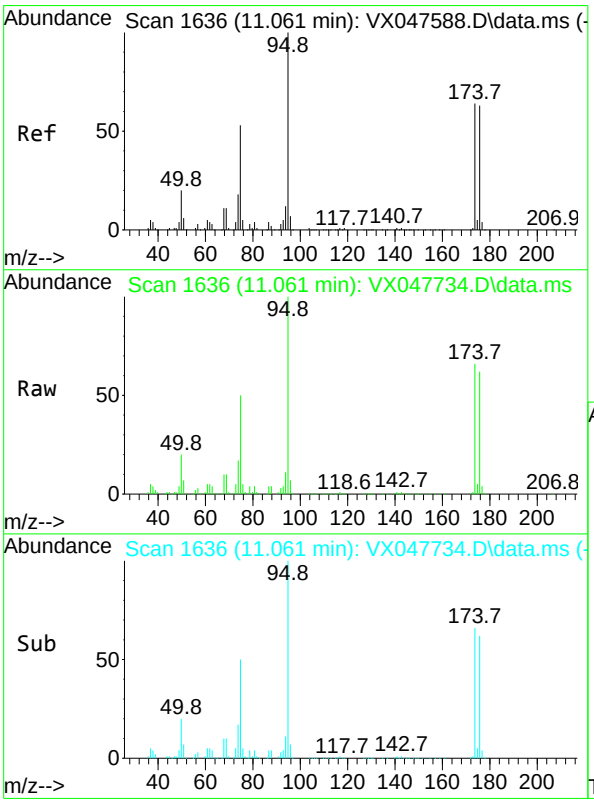
#50
Toluene-d8
Concen: 47.660 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Tgt Ion: 98 Resp: 338041

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

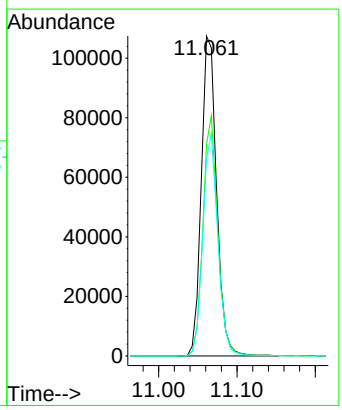


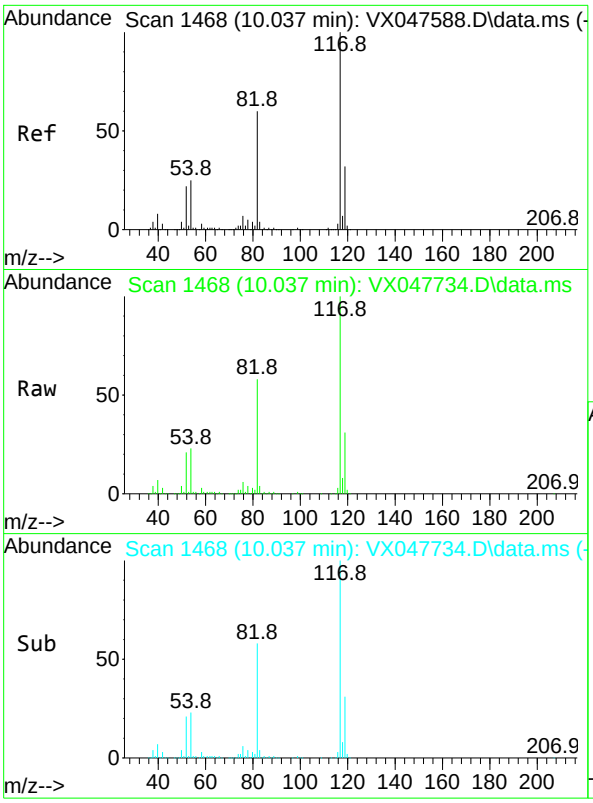


#62
4-Bromofluorobenzene
Concen: 53.968 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Tgt Ion: 95 Resp: 145273

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	141.6
176	68.5	0.0	138.4



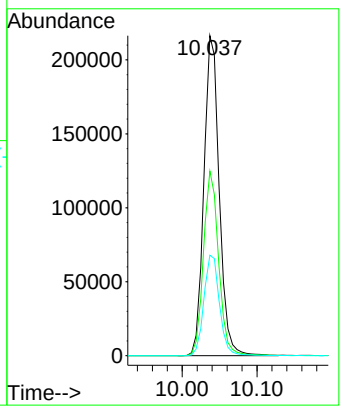


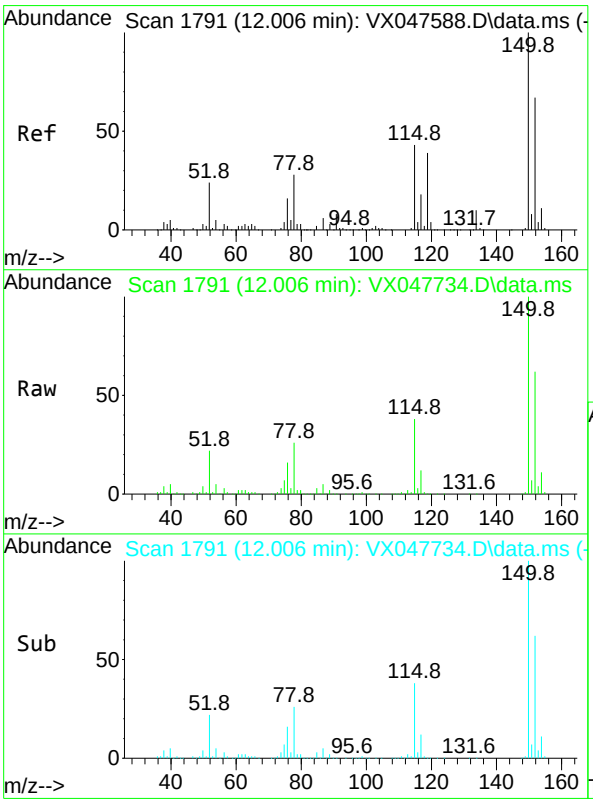
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Tgt Ion:117 Resp: 308233

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.4	25.2	37.8

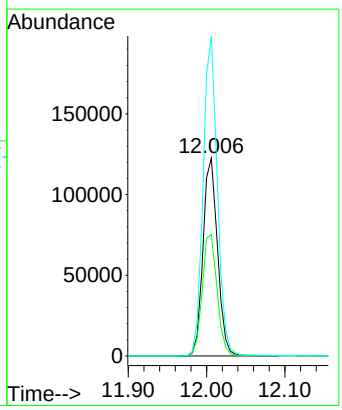




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047734.D
Acq: 23 Sep 2025 15:31

Tgt Ion:152 Resp: 157643

Ion	Ratio	Lower	Upper
152	100		
115	63.0	44.9	134.5
150	158.3	0.0	352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047734.D
Acq On : 23 Sep 2025 15:31
Operator : JC/MD
Sample : Q3141-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047734.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.148	8	10	28	rVB	11321	22002	2.23%	0.407%
2	1.459	56	61	73	rVB	11579	16379	1.66%	0.303%
3	2.374	205	211	219	rBV	6099	11829	1.20%	0.219%
4	5.373	688	703	720	rBV4	99933	320615	32.42%	5.925%
5	5.538	720	730	750	rVB	141777	446599	45.17%	8.253%
6	5.940	787	796	822	rBV	109161	327796	33.15%	6.058%
7	6.745	919	928	952	rBV	275465	726719	73.49%	13.430%
8	8.635	1231	1238	1255	rBV	547639	912139	92.25%	16.856%
9	10.037	1462	1468	1482	rBV	674458	957813	96.87%	17.700%
10	11.061	1631	1636	1647	rBV	490632	680617	68.83%	12.578%
11	12.006	1785	1791	1799	rBV	756105	988803	100.00%	18.273%

Sum of corrected areas: 5411311

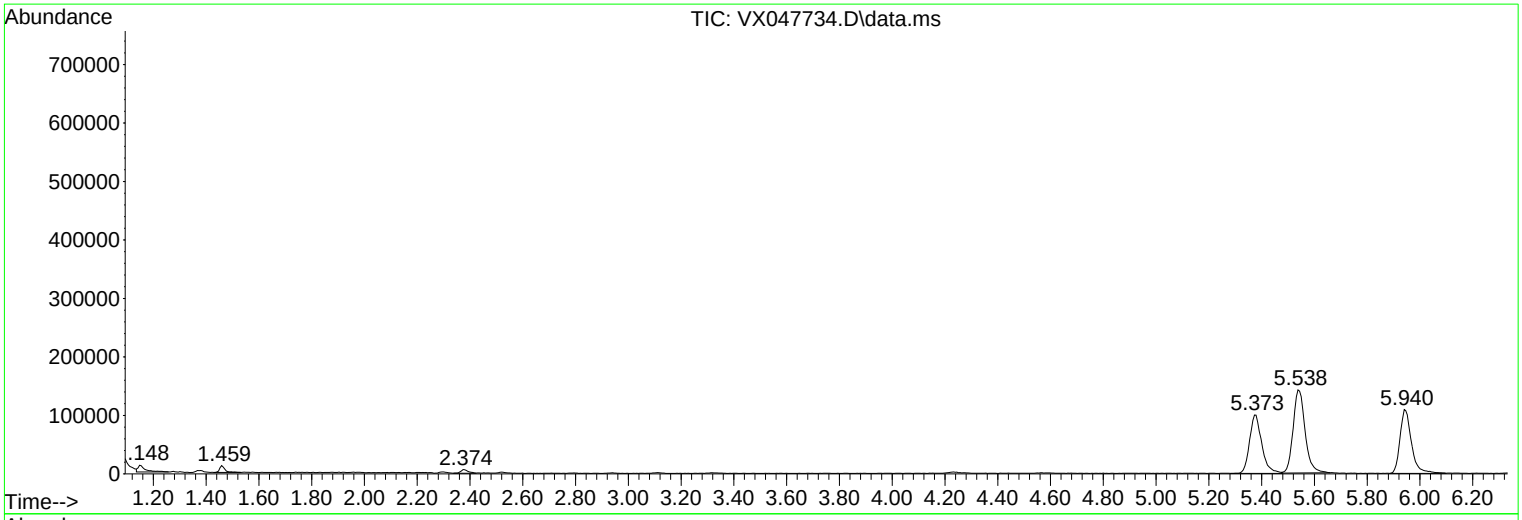
Sample Results: **VX047734.D**

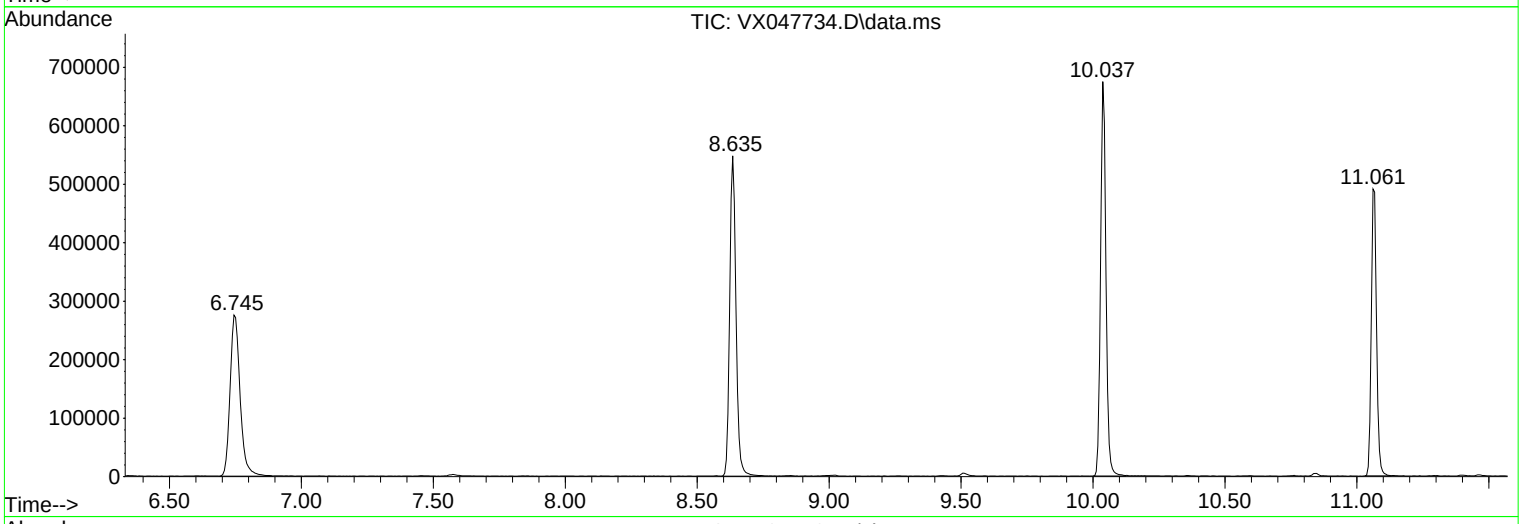
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047734.D
Acq On : 23 Sep 2025 15:31
Operator : JC/MD
Sample : Q3141-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

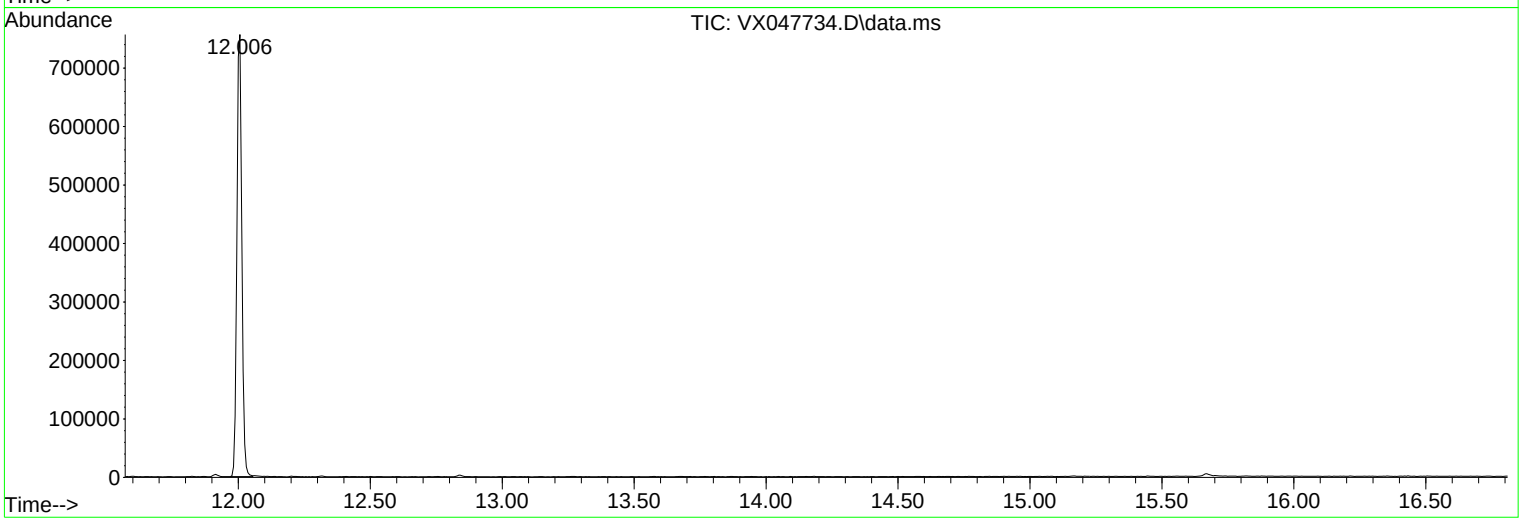
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047734.D
Acq On : 23 Sep 2025 15:31
Operator : JC/MD
Sample : Q3141-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047734.D
Acq On : 23 Sep 2025 15:31
Operator : JC/MD
Sample : Q3141-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-GW-220-222

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3141

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

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

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10
Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.9
Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.9
Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15
Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.4
Trichlorofluoromethane	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.5
1,1,2-Trichlorotrifluoroethane	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.2
1,1-Dichloroethene	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.7
Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.7
Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.8
Methyl tert-butyl Ether	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.5
Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.4
Methylene Chloride	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.5
trans-1,2-Dichloroethene	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.3
1,1-Dichloroethane	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.8
Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.1
2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	9
Carbon Tetrachloride	0.482	0.574	0.555	0.539	0.526	0.518	0.532	6
cis-1,2-Dichloroethene	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.4
Bromochloromethane	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.2
Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.7
1,1,1-Trichloroethane	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.3
Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.6
Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.1
1,2-Dichloroethane	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.8
Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.9
1,2-Dichloropropane	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.4
Bromodichloromethane	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.7
4-Methyl-2-Pentanone	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.3
Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.2

* 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: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3141

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

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

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.3
cis-1,3-Dichloropropene	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.7
1,1,2-Trichloroethane	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.1
2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.8
Dibromochloromethane	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.5
1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.1
Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6
Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.2
Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.6
m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.8
o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.1
Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.7
Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.4
Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.9
1,1,2,2-Tetrachloroethane	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.2
1,3-Dichlorobenzene	1.462	1.800	1.829	1.817	1.768	1.758	1.739	8
1,4-Dichlorobenzene	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.5
1,2-Dichlorobenzene	1.359	1.691	1.757	1.746	1.696	1.692	1.657	9
1,2-Dibromo-3-Chloropropane	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.1
1,2,4-Trichlorobenzene	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.3
1,2,3-Trichlorobenzene	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.7
1,2-Dichloroethane-d4		0.884	0.647	0.770	0.815	0.863	0.796	11.8
Dibromofluoromethane		0.356	0.266	0.331	0.355	0.368	0.335	12.3
Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.1
4-Bromofluorobenzene		0.478	0.360	0.427	0.452	0.484	0.440	11.4

* 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 : 82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025
Response Via : Initial Calibration

Calibration Files
1 =VX047585.D 5 =VX047586.D 20 =VX047587.D 50 =VX047588.D 100 =VX047589.D 150 =VX047590.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10.01
3)	P	Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.92
4)	C	Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.87#
5)	T	Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15.01
6)	T	Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.36
7)	T	Trichlorofluor...	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.49
8)	T	Diethyl Ether	0.372	0.405	0.413	0.409	0.420	0.409	0.405	4.17
9)	T	1,1,2-Trichlor...	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.21
10)	T	Methyl Iodide		0.865	0.922	0.911	0.925	0.886	0.902	2.85
11)	T	Tert butyl alc...		0.085	0.086	0.089	0.090	0.094	0.089	4.18
12)	CM	1,1-Dichloroet...	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.71#
13)	T	Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.59
14)	T	Allyl chloride	1.194	1.267	1.249	1.211	1.226	1.207	1.226	2.25
15)	T	Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.82
16)	T	Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.67
17)	T	Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.80
18)	T	Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.39
19)	T	Methyl tert-bu...	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.47
20)	T	Methylene Chlo...	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.45
21)	T	trans-1,2-Dich...	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.28
22)	T	Diisopropyl ether	1.976	2.531	2.487	2.477	2.398	2.384	2.376	8.56
23)	T	Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.41
24)	P	1,1-Dichloroet...	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.81
25)	T	2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	8.98
26)	T	2,2-Dichloropr...	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.06
27)	T	cis-1,2-Dichlo...	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.41
28)	T	Bromochloromet...	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.18
29)	T	Tetrahydrofuran	0.211	0.269	0.272	0.275	0.262	0.268	0.260	9.24
30)	C	Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.72#
31)	T	Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.08
32)	T	1,1,1-Trichlor...	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.33
33)	S	1,2-Dichloroet...		0.884	0.647	0.770	0.815	0.863	0.796	11.82
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.356	0.266	0.331	0.355	0.368	0.335	12.25
36)	T	1,1-Dichloropr...	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.15
37)	T	Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.21
38)	T	Carbon Tetrach...	0.482	0.574	0.555	0.539	0.526	0.518	0.532	5.99
39)	T	Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.60
40)	TM	Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.11
41)	T	Methacrylonitrile	0.236	0.264	0.286	0.286	0.282	0.271	0.271	7.13
42)	TM	1,2-Dichloroet...	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.76
43)	T	Isopropyl Acetate	0.751	0.882	0.889	0.897	0.865	0.879	0.860	6.34
44)	TM	Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.92
45)	C	1,2-Dichloropr...	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.37#
46)	T	Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.54
47)	T	Bromodichlorom...	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.65
48)	T	Methyl methacr...	0.372	0.421	0.447	0.449	0.436	0.446	0.429	6.97
49)	T	1,4-Dioxane	0.003	0.004	0.004	0.005	0.005	0.005	0.004	19.43
50)	S	Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.10
51)	T	4-Methyl-2-Pen...	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.28
52)	CM	Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.22#
53)	T	t-1,3-Dichloro...	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.33
54)	T	cis-1,3-Dichlo...	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.74
55)	T	1,1,2-Trichlor...	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.10
56)	T	Ethyl methacry...	0.407	0.563	0.587	0.599	0.580	0.595	0.555	13.25

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X091625W.M

57)	T	1,3-Dichloropr...	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.51
58)	T	2-Chloroethyl ...	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.65
59)	T	2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.82
60)	T	Dibromochlorom...	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.49
61)	T	1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.10
62)	S	4-Bromofluorob...		0.478	0.360	0.427	0.452	0.484	0.440	11.42
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6.03
65)	PM	Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.18
66)	T	1,1,1,2-Tetrac...	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.26
67)	C	Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.57#
68)	T	m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.77
69)	T	o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.13
70)	T	Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.70
71)	P	Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.37
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.94
74)	T	N-amyl acetate	1.277	1.726	1.851	1.862	1.834	1.850	1.733	13.21
75)	P	1,1,2,2-Tetrac...	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.16
76)	T	1,2,3-Trichlor...	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.13
77)	T	Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.38
78)	T	n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.17
79)	T	2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.91
80)	T	1,3,5-Trimethy...	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.62
81)	T	trans-1,4-Dich...		0.347	0.381	0.414	0.420	0.424	0.397	8.31
82)	T	4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.74
83)	T	tert-Butylbenzene	2.800	3.223	3.346	3.359	3.240	3.215	3.197	6.39
84)	T	1,2,4-Trimethy...	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.17
85)	T	sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.09
86)	T	p-Isopropyltol...	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.81
87)	T	1,3-Dichlorobe...	1.462	1.800	1.829	1.817	1.768	1.758	1.739	7.95
88)	T	1,4-Dichlorobe...	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.47
89)	T	n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.14
90)	T	Hexachloroethane	0.434	0.565	0.574	0.593	0.606	0.614	0.564	11.81
91)	T	1,2-Dichlorobe...	1.359	1.691	1.757	1.746	1.696	1.692	1.657	8.97
92)	T	1,2-Dibromo-3-...	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.07
93)	T	1,2,4-Trichlor...	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.34
94)	T	Hexachlorobuta...	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.51
95)	T	Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.46
96)	T	1,2,3-Trichlor...	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.72

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	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 78 - 117		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 92 - 112		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 83 - 123		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l		96
3) Chloromethane	1.300	50	3006	0.897	ug/l	#	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l		95
6) Chloroethane	1.697	64	2134	0.973	ug/l		95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l		88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l		98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l		93
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l	#	80
14) Allyl chloride	2.666	41	5885	0.974	ug/l		94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l		97
16) Acetone	2.380	43	8444	4.953	ug/l		99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l	#	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l	#	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l		93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l		95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l	#	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l		97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l		95
25) 2-Butanone	4.550	43	9105	4.281	ug/l	#	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l		77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l		96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l	#	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l		98
30) Chloroform	5.074	83	5093	0.810	ug/l		86
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l	#	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l	#	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l	#	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l		95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l		94
40) Benzene	6.025	78	12012	0.894	ug/l		98
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l	#	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l		80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l		94
44) Trichloroethene	7.110	130	2677	0.824	ug/l		78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.574	93	2240	0.895	ug/l		94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l	#	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l	#	87
49) 1,4-Dioxane	7.653	88	488m	12.477	ug/l		
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l		95
52) Toluene	8.708	92	7595	0.917	ug/l		92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l	#	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l	#	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l		95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l	#	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l		99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l		98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l		87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l		96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l		83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l	#	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l		98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l		99
69) o-Xylene	10.622	106	4734	0.816	ug/l		94
70) Styrene	10.640	104	8377	0.824	ug/l		96
71) Bromoform	10.787	173	1816	0.755	ug/l	#	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l		96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l		96
76) 1,2,3-Trichloropropane	11.225	75	3421m	0.816	ug/l		
77) Bromobenzene	11.183	156	3069	0.811	ug/l		98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l		99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l		99
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l		95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l		97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l		100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l		99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l		92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	6341m	0.880	ug/l		
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l		97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l		97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l		95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l		93
95) Naphthalene	13.756	128	10112	0.763	ug/l		98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l		98

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

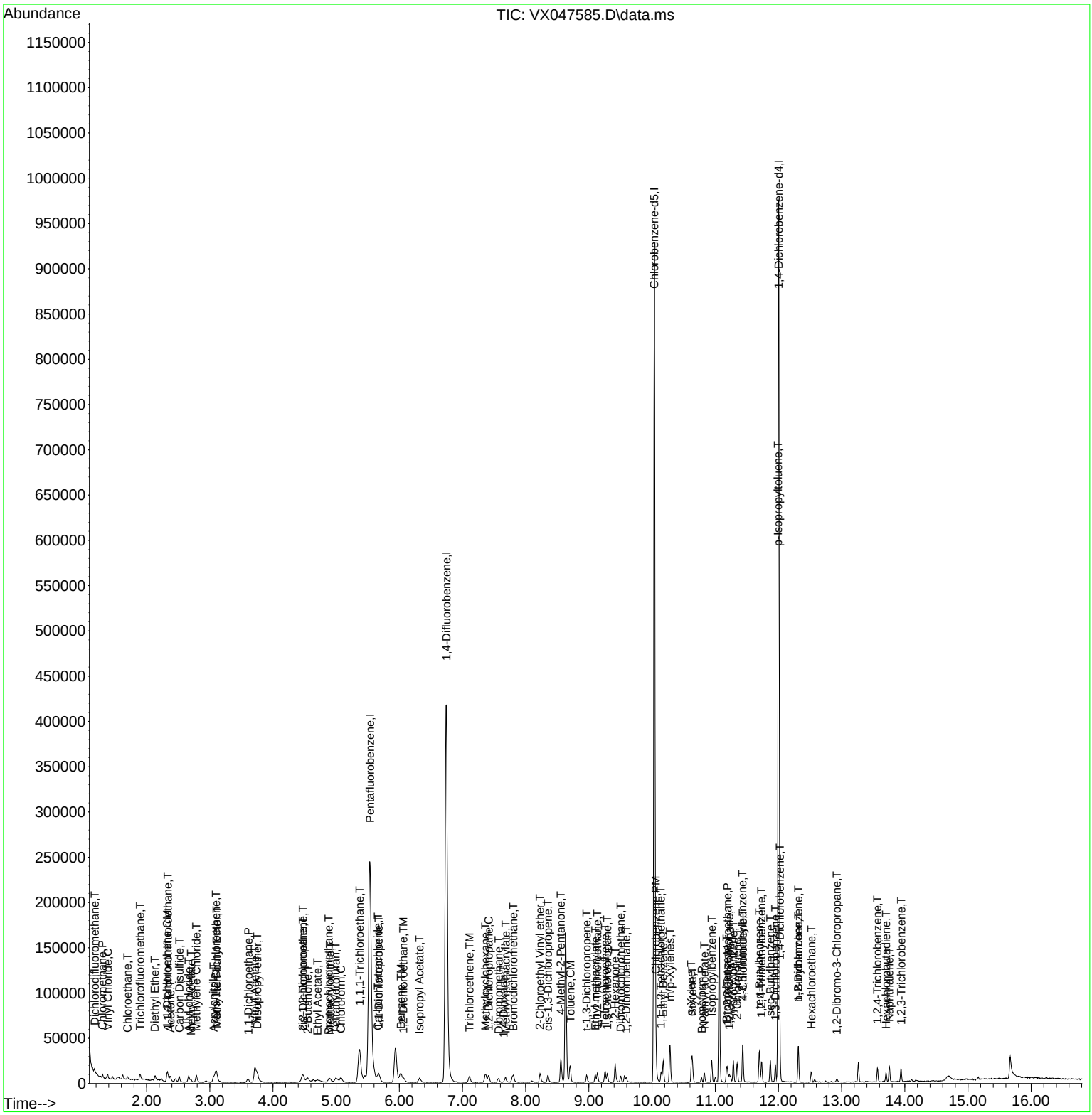
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

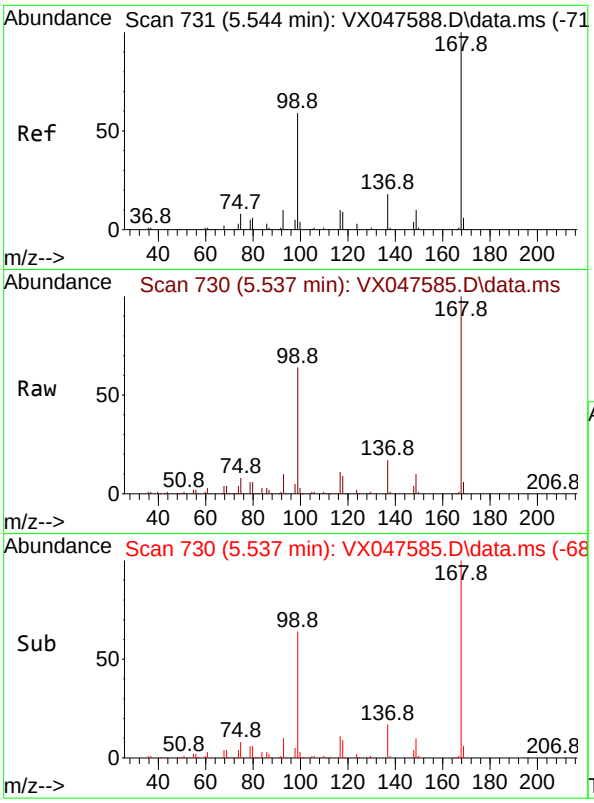
Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

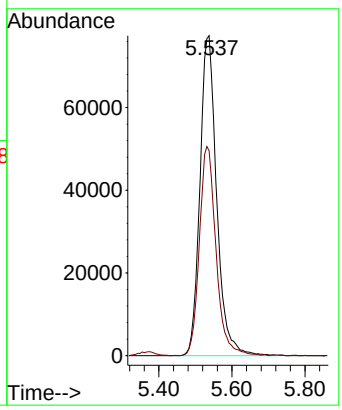




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:168 Resp: 24634

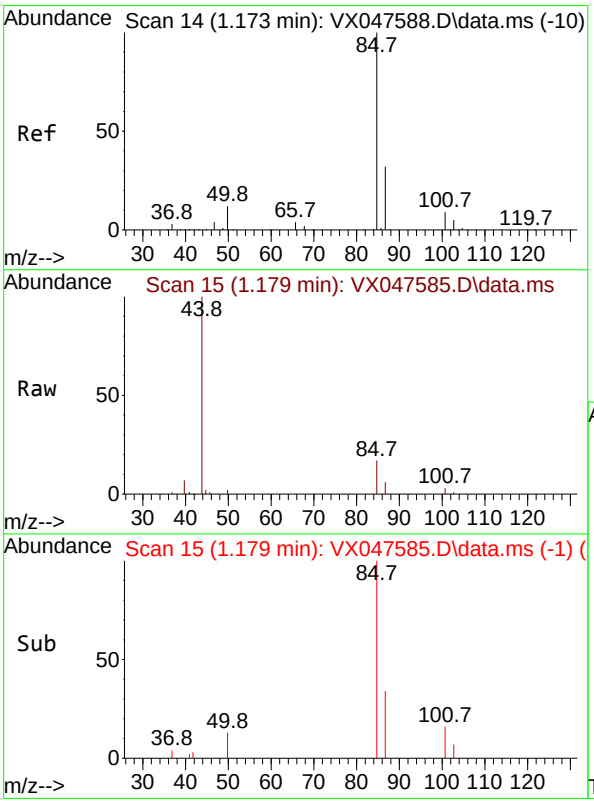
Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

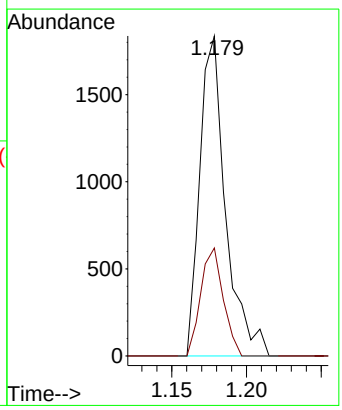
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

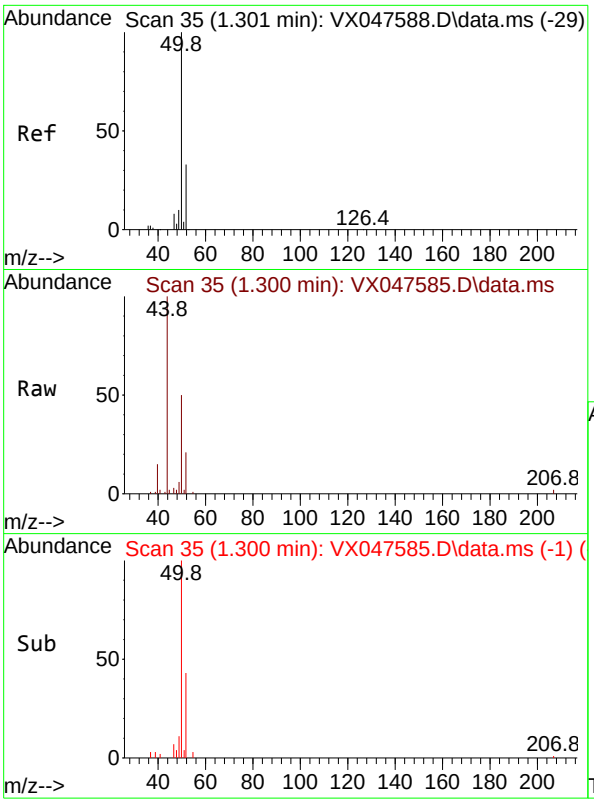


#2
Dichlorodifluoromethane
Concen: 0.863 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 85 Resp: 2201

Ion	Ratio	Lower	Upper
85	100		
87	33.8	15.8	47.3

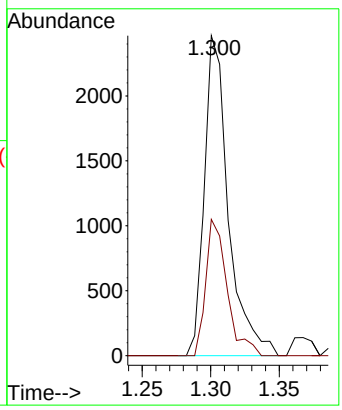




#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 50 Resp: 300

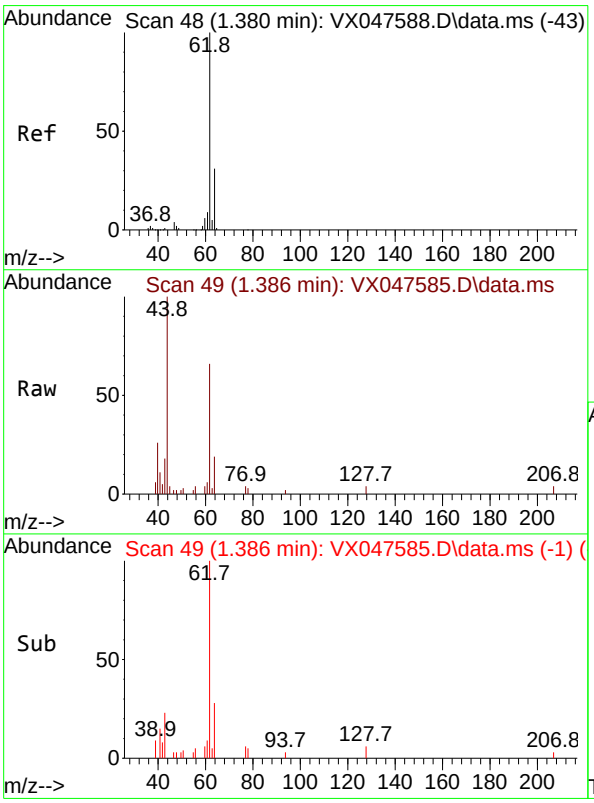
Ion	Ratio	Lower	Upper
50	100		
52	42.6	26.1	39.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

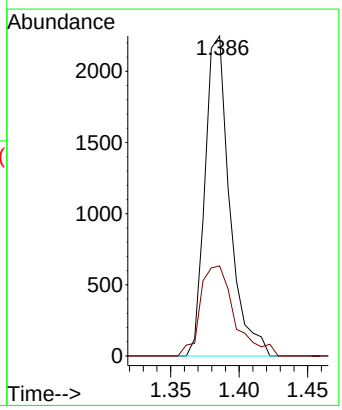
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

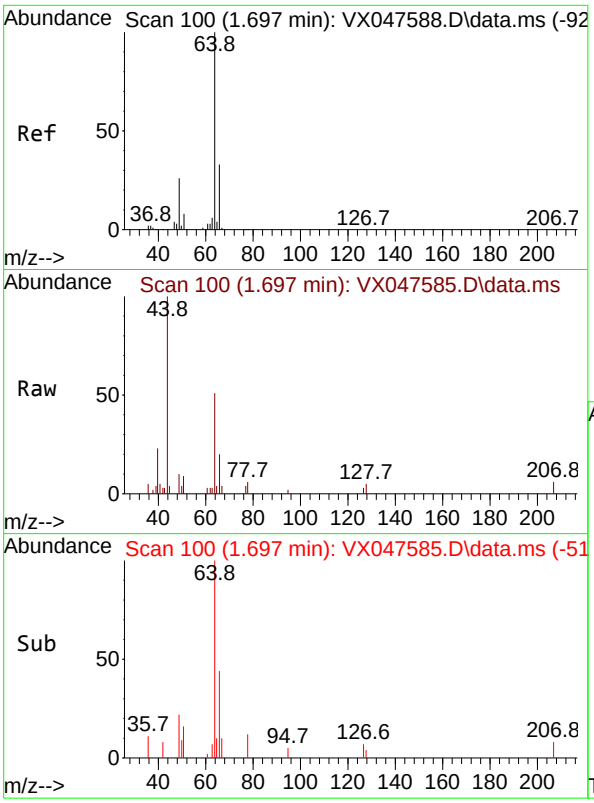


#4
Vinyl Chloride
Concen: 0.859 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 2818

Ion	Ratio	Lower	Upper
62	100		
64	28.2	24.9	37.3

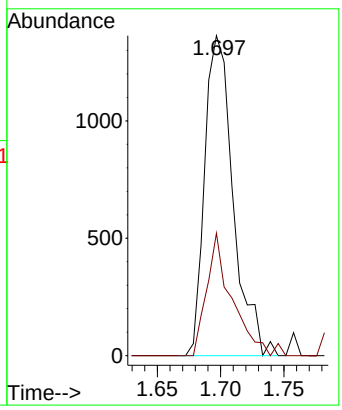




#6
Chloroethane
Concen: 0.973 ug/l
RT: 1.697 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 64 Resp: 213

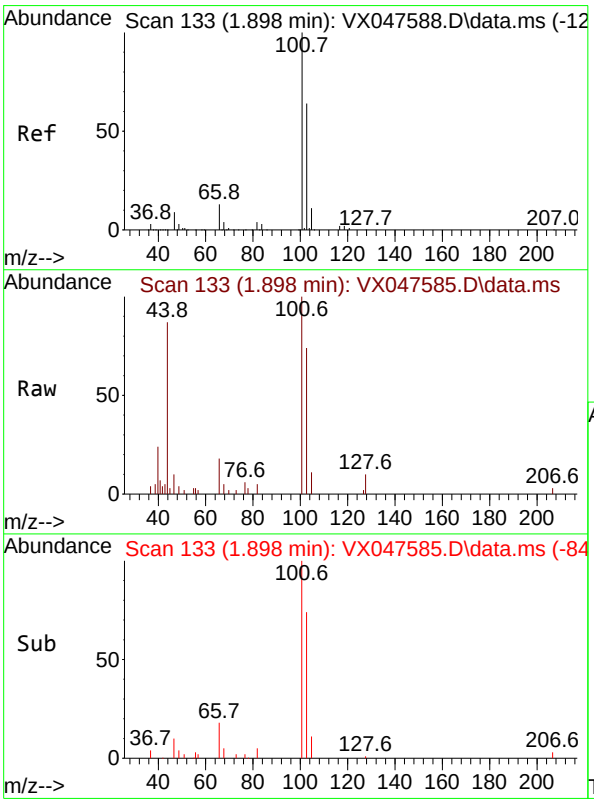
Ion	Ratio	Lower	Upper
64	100		
66	35.4	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

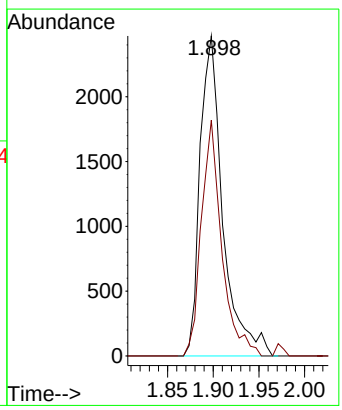
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

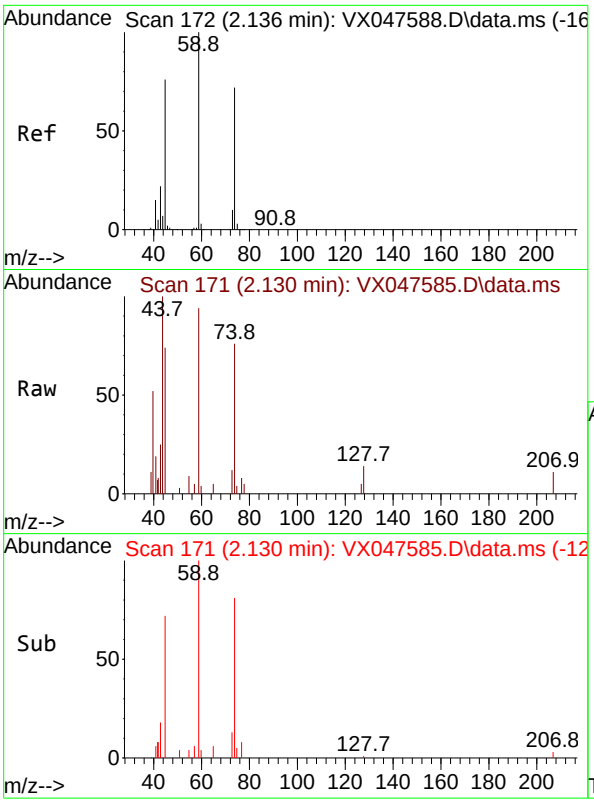


#7
Trichlorofluoromethane
Concen: 0.874 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:101 Resp: 4261

Ion	Ratio	Lower	Upper
101	100		
103	73.7	51.4	77.2

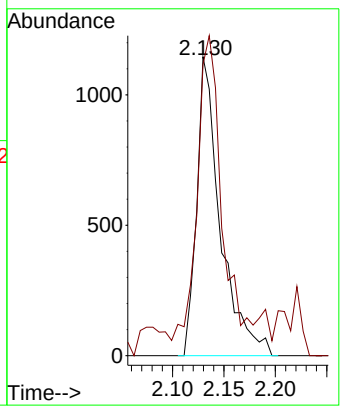




#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 74 Resp: 183

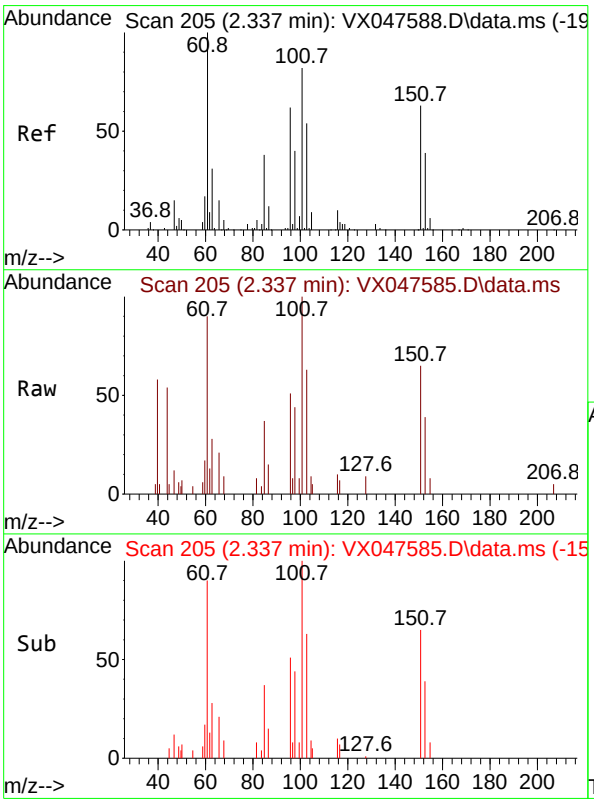
Ion	Ratio	Lower	Upper
74	100		
45	102.2	52.3	156.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

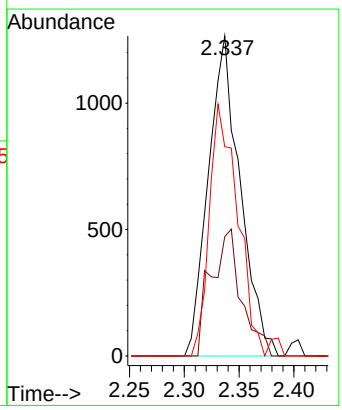
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

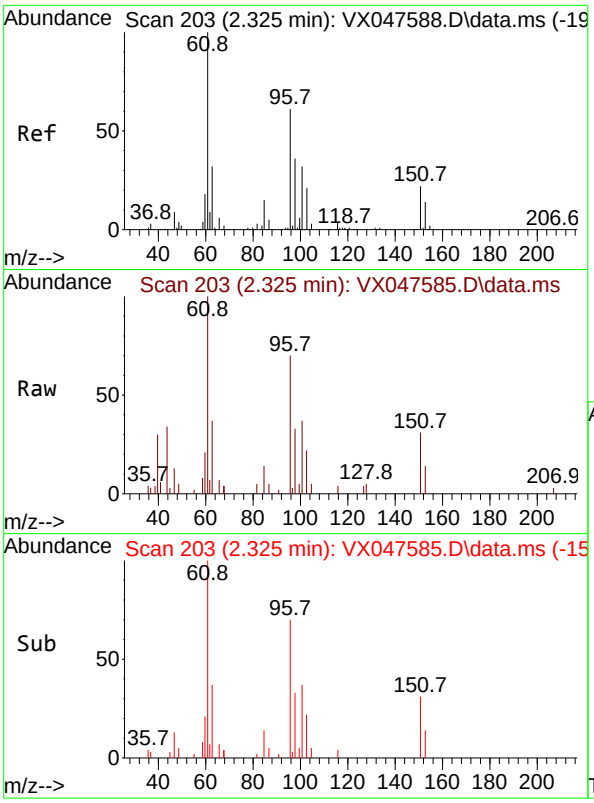


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:101 Resp: 2555

Ion	Ratio	Lower	Upper
101	100		
85	37.8	35.5	53.3
151	69.9	59.4	89.0

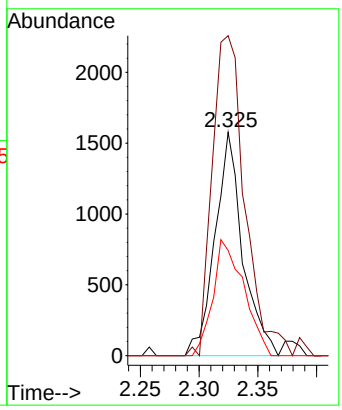




#12
1,1-Dichloroethene
Concen: 0.886 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 259

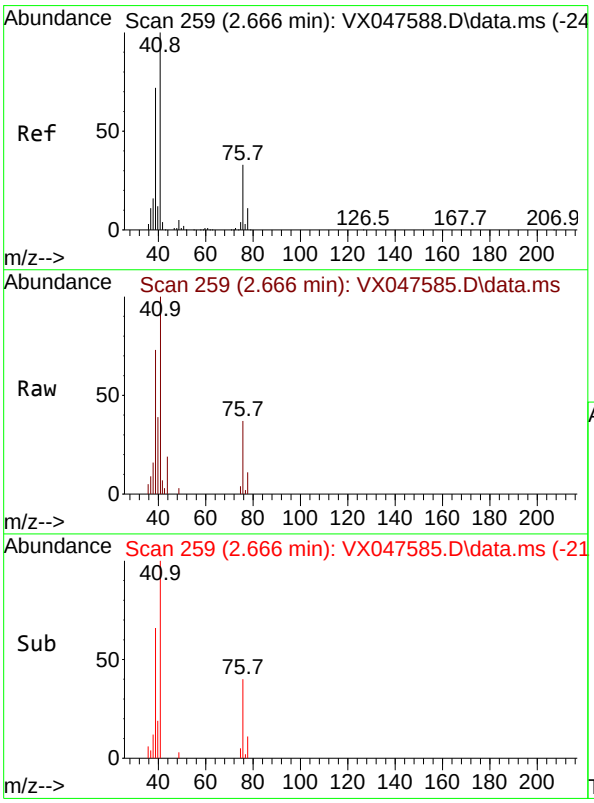
Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

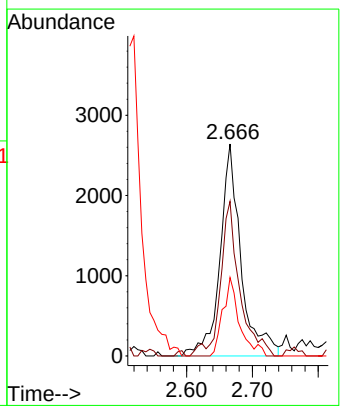
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

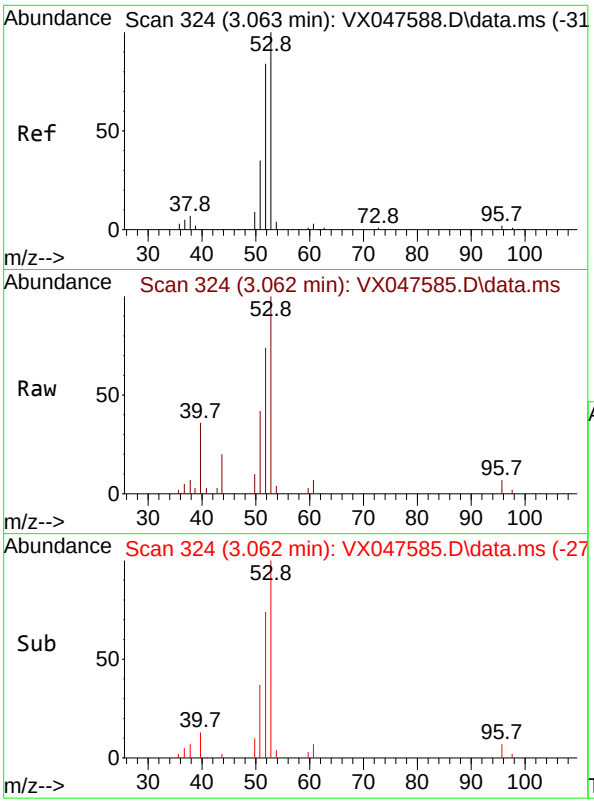


#14
Allyl chloride
Concen: 0.974 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 5885

Ion	Ratio	Lower	Upper
41	100		
39	63.3	54.7	82.1
76	29.3	25.7	38.5

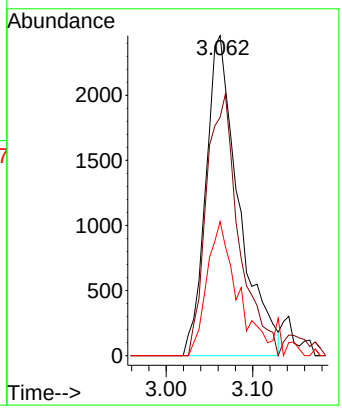




#15
Acrylonitrile
Concen: 4.018 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 53 Resp: 650

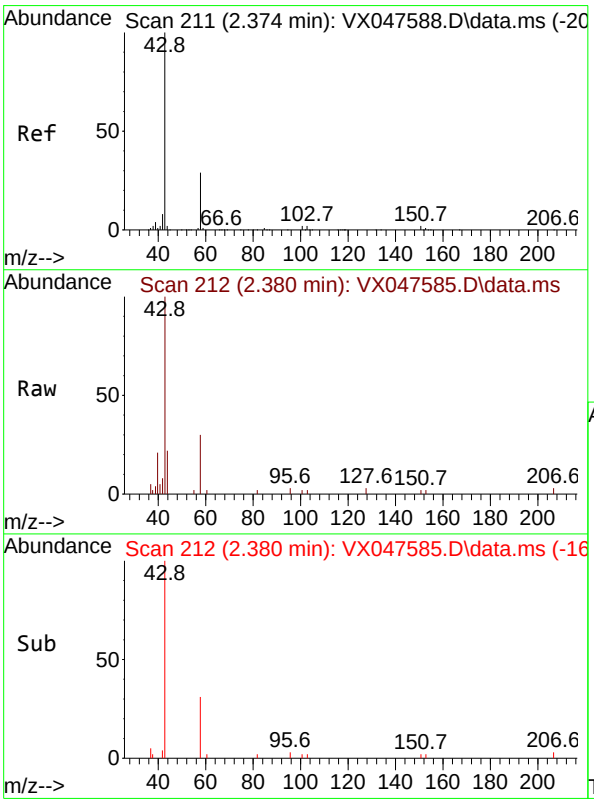
Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.4	99.6
51	38.7	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

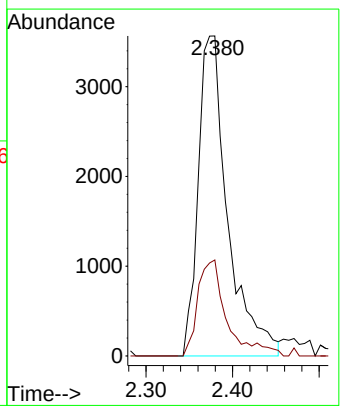
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

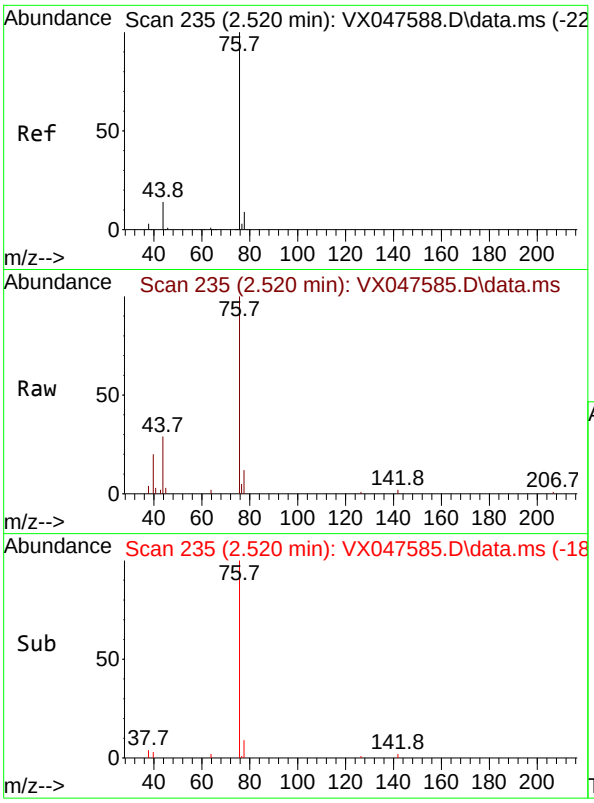


#16
Acetone
Concen: 4.953 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 8444

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0





#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

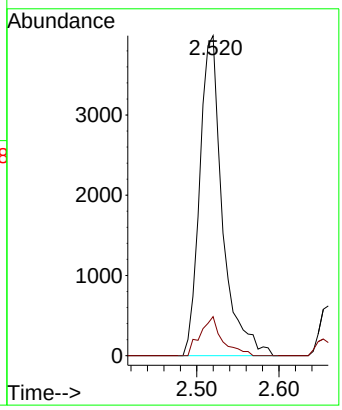
Tgt Ion: 76 Resp: 766

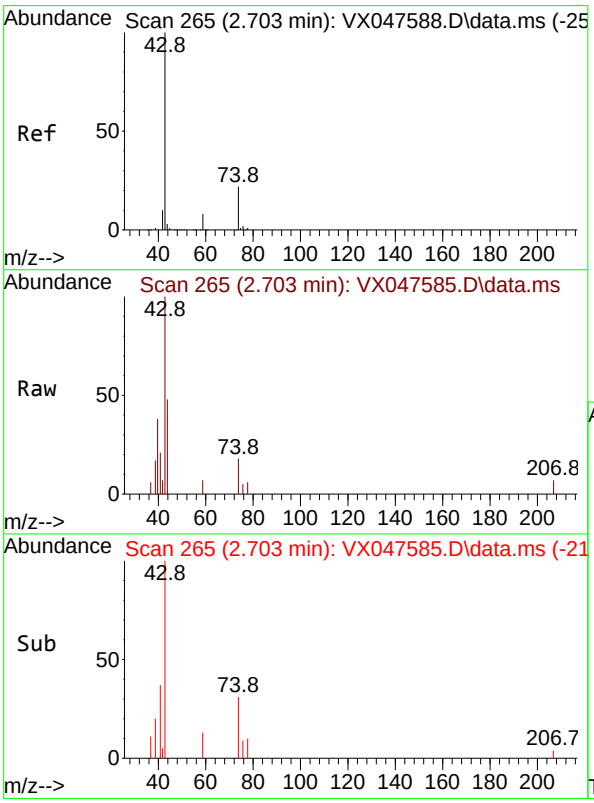
Ion	Ratio	Lower	Upper
76	100		
78	11.6	6.8	10.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

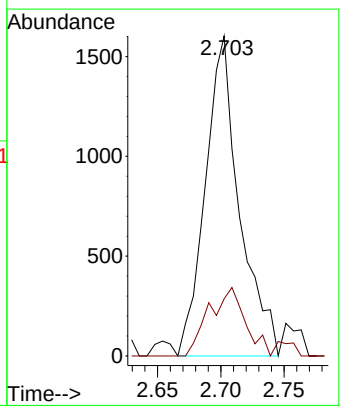


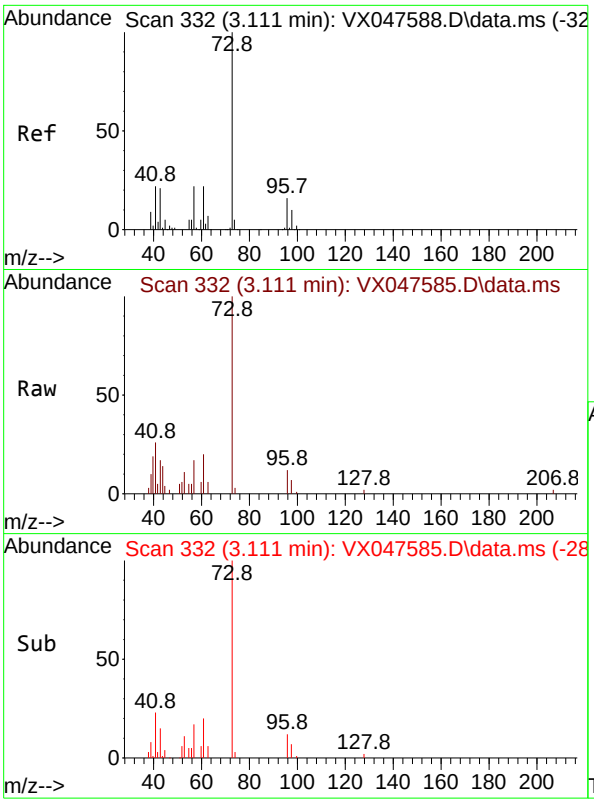


#18
Methyl Acetate
Concen: 0.794 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3013

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

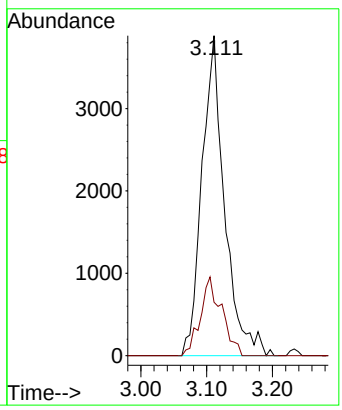




#19
Methyl tert-butyl Ether
Concen: 0.869 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 73 Resp: 928

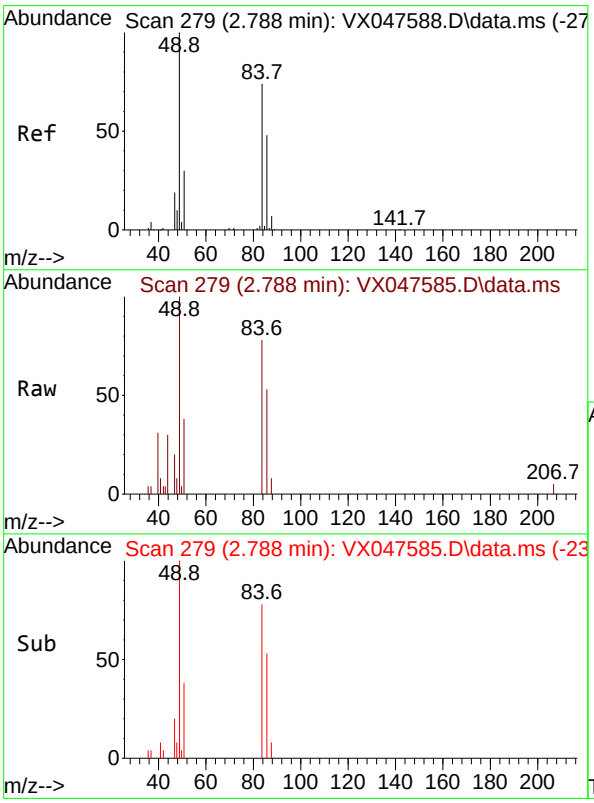
Ion	Ratio	Lower	Upper
73	100		
57	16.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

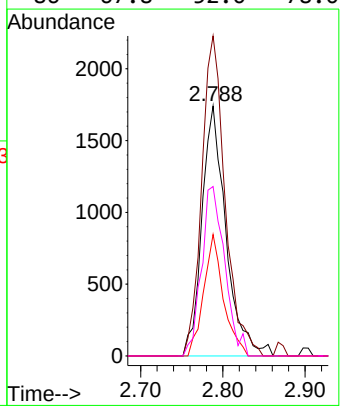
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

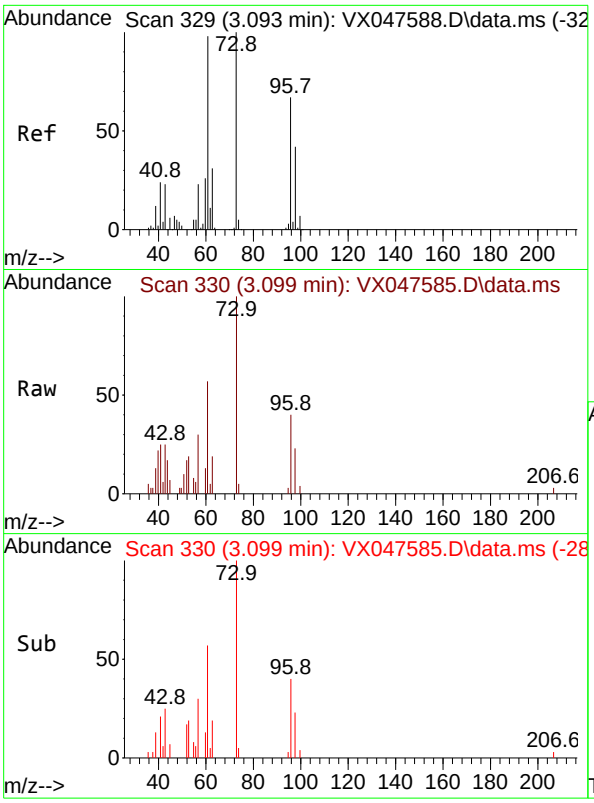


#20
Methylene Chloride
Concen: 0.981 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 84 Resp: 3540

Ion	Ratio	Lower	Upper
84	100		
49	128.0	108.6	162.8
51	48.6	32.6	48.8
86	67.8	52.0	78.0

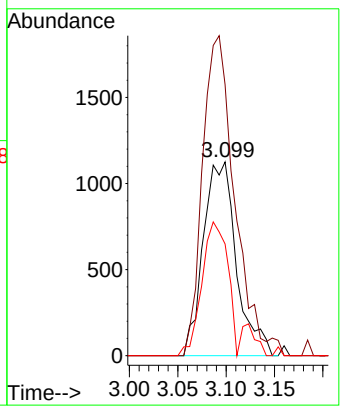




#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 267

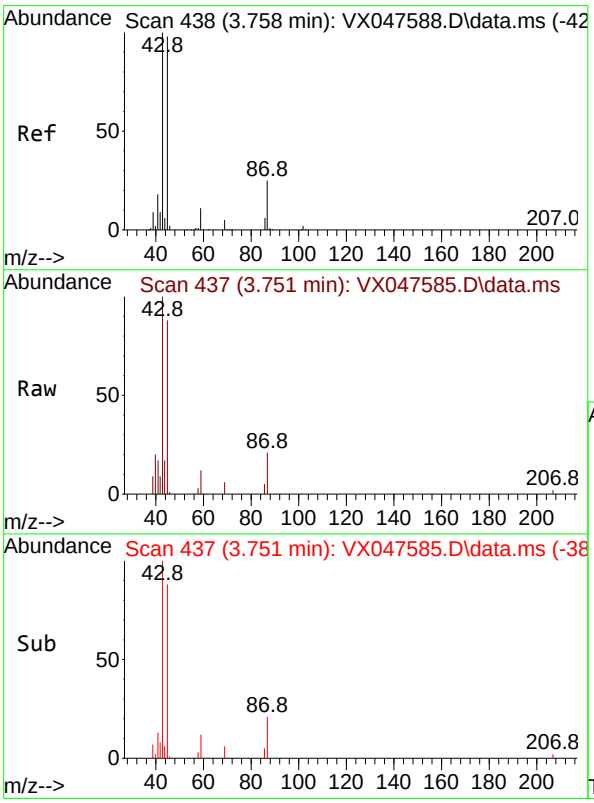
Ion	Ratio	Lower	Upper
96	100		
61	139.9	116.2	174.2
98	57.6	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

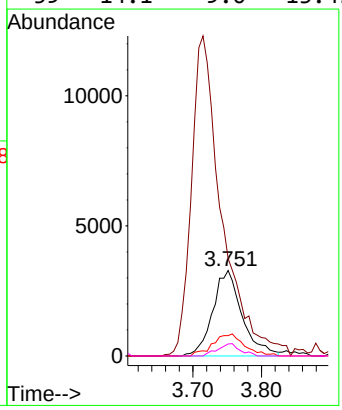
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

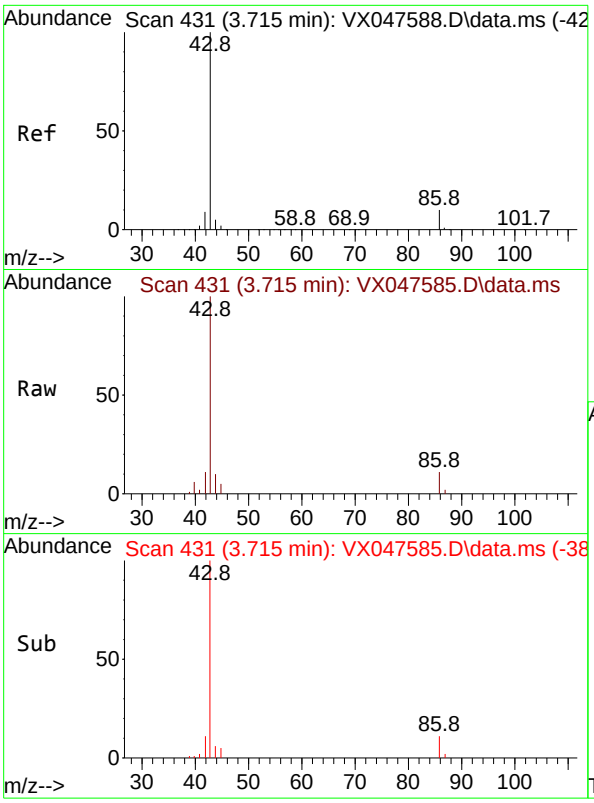


#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 45 Resp: 9738

Ion	Ratio	Lower	Upper
45	100		
43	117.9	81.0	121.4
87	23.7	20.3	30.5
59	14.1	9.0	13.4#





#23
Vinyl Acetate
Concen: 4.052 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

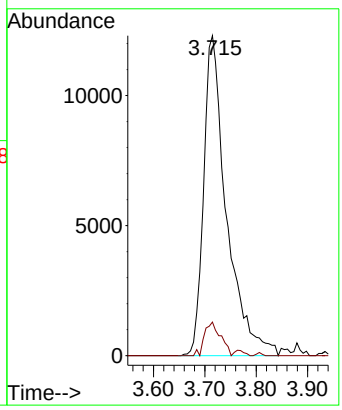
Tgt Ion: 43 Resp: 3796

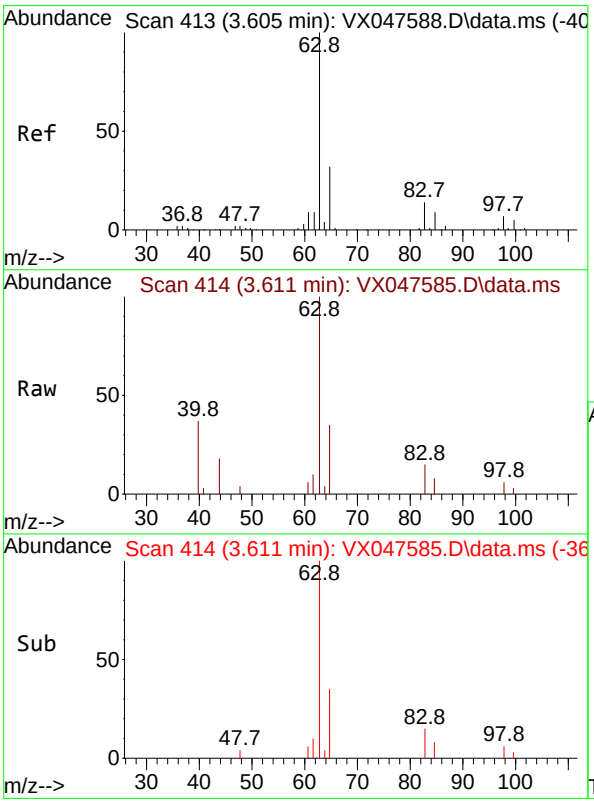
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

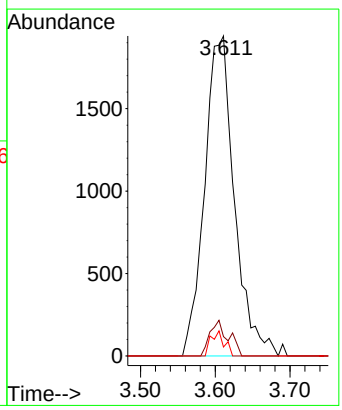


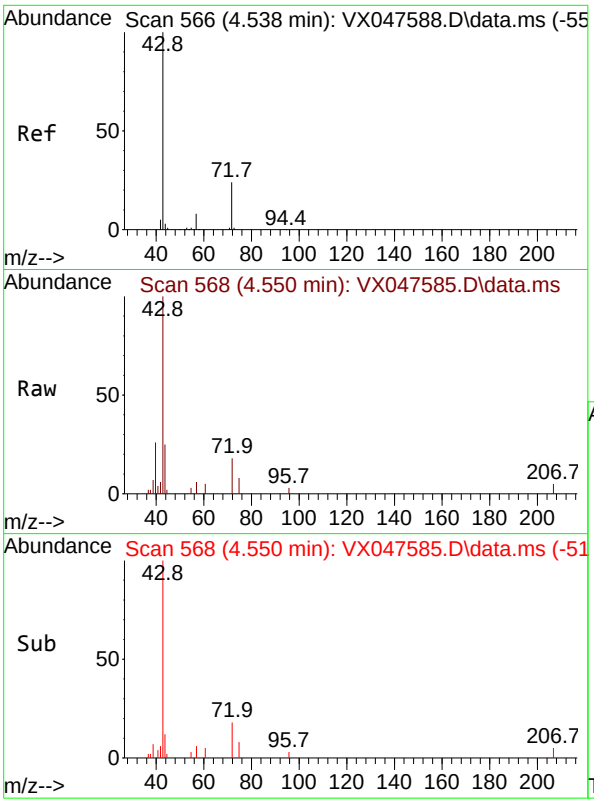


#24
1,1-Dichloroethane
Concen: 0.863 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 5372

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.8	11.2
100	2.8	2.3	6.9





#25
2-Butanone
Concen: 4.281 ug/l
RT: 4.550 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

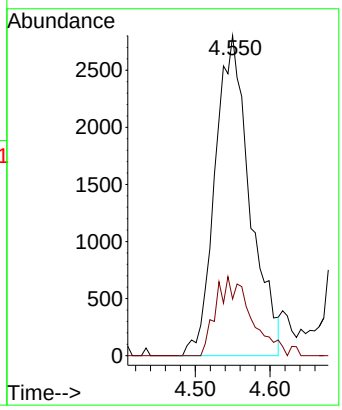
Tgt Ion: 43 Resp: 910

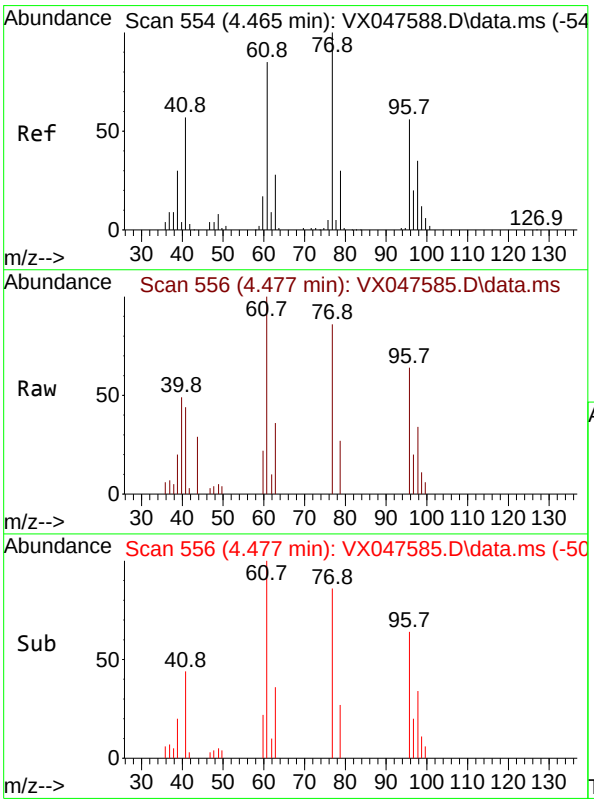
Ion	Ratio	Lower	Upper
43	100		
72	16.3	20.1	30.1#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

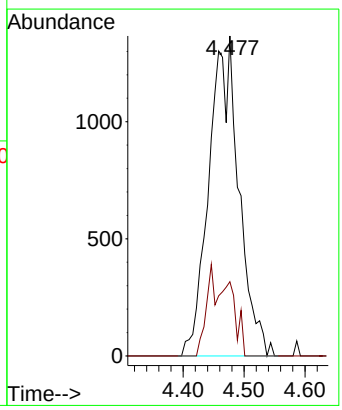


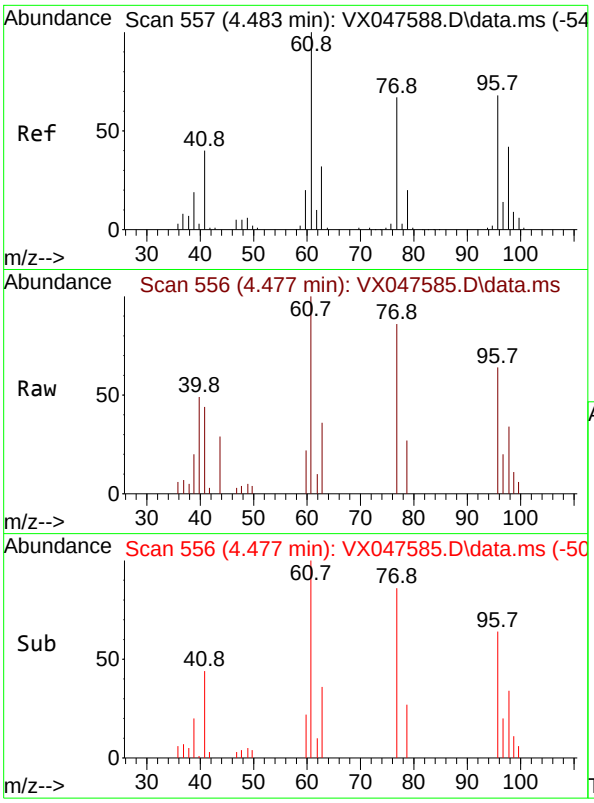


#26
2,2-Dichloropropane
Concen: 0.901 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 77 Resp: 4657

Ion	Ratio	Lower	Upper
77	100		
97	11.0	10.9	32.7

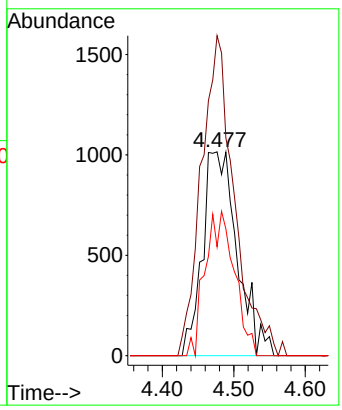




#27
cis-1,2-Dichloroethene
Concen: 0.891 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 344

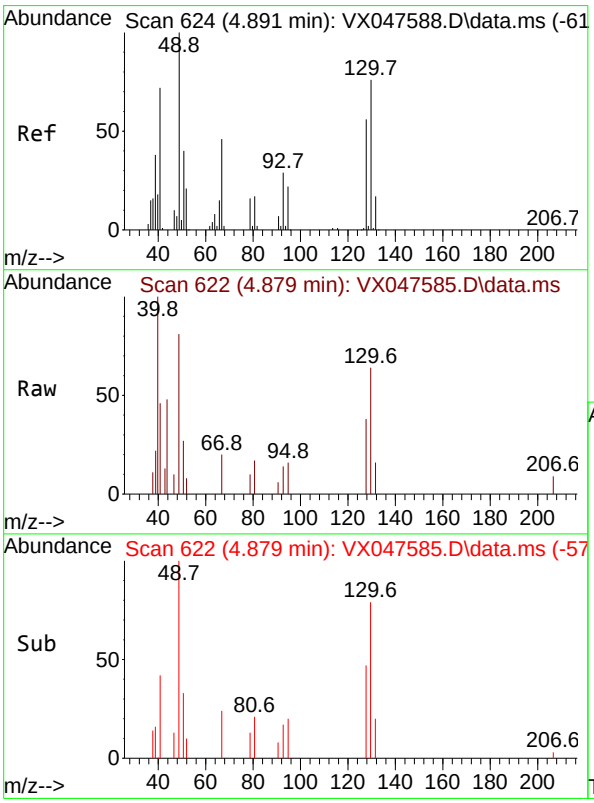
Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	303.2
98	59.4	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

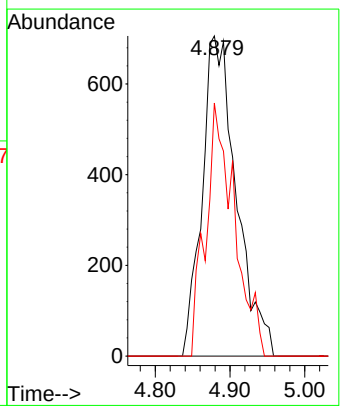
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

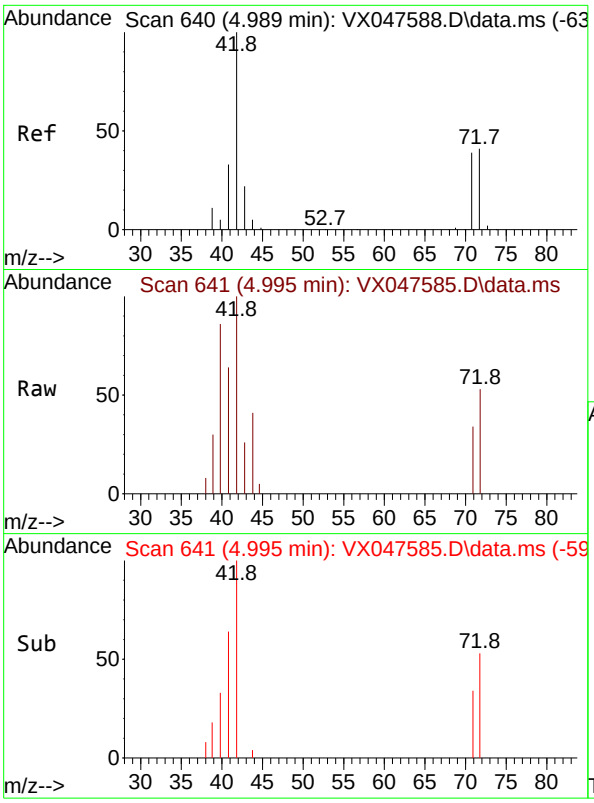


#28
Bromochloromethane
Concen: 0.829 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 49 Resp: 2251

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	66.2	57.8	86.8





#29
Tetrahydrofuran
Concen: 4.072 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

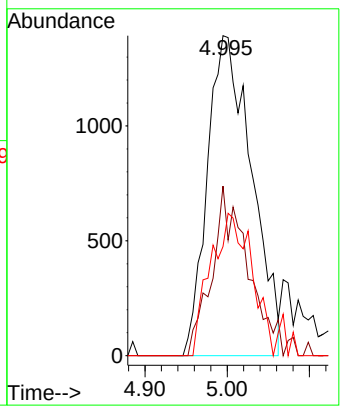
Tgt Ion: 42 Resp: 521

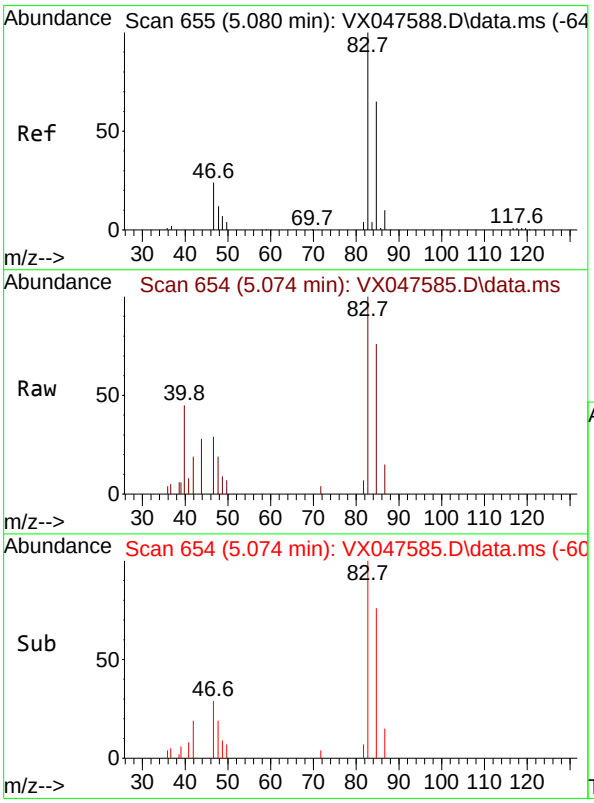
Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.2	51.2
71	41.3	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

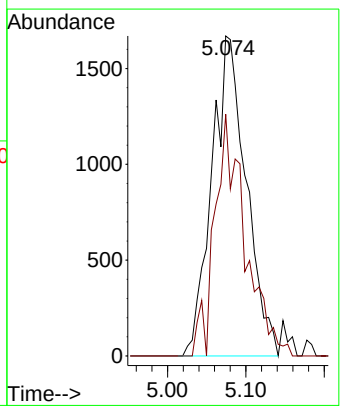


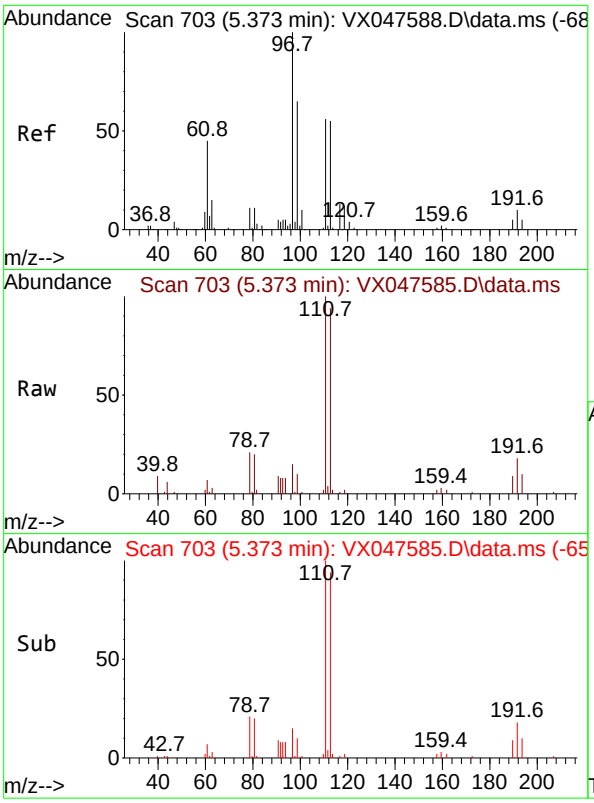


#30
Chloroform
Concen: 0.810 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 5093

Ion	Ratio	Lower	Upper
83	100		
85	75.6	51.8	77.6

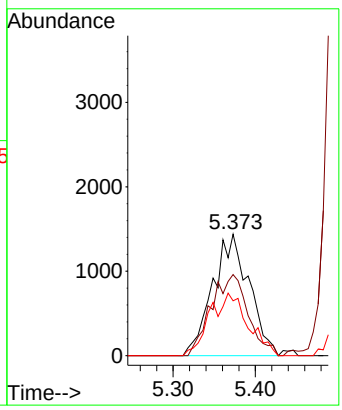




#32
1,1,1-Trichloroethane
Concen: 0.832 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 443

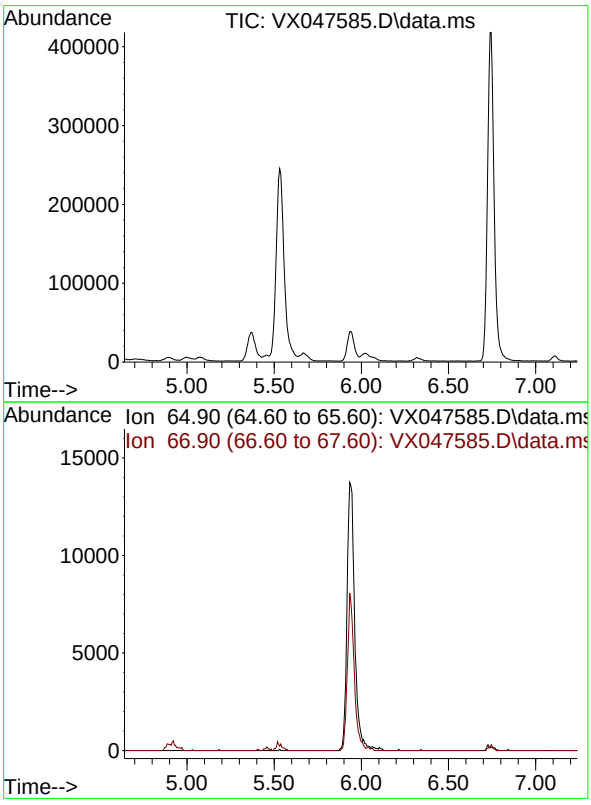
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0
61	36.2	35.8	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

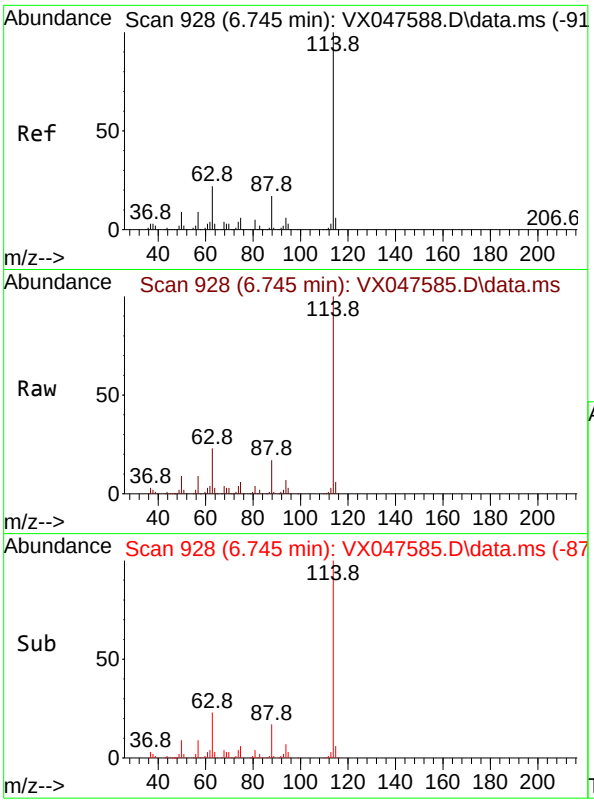


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.94 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	51.5



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

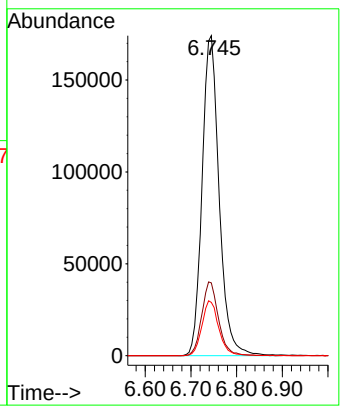
Tgt Ion:114 Resp: 45150

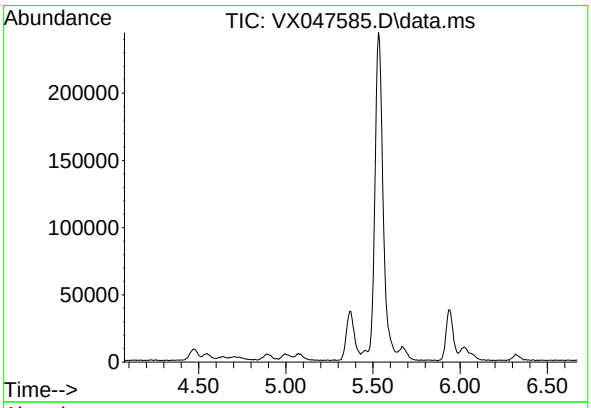
Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	44.0
88	16.6	0.0	34.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



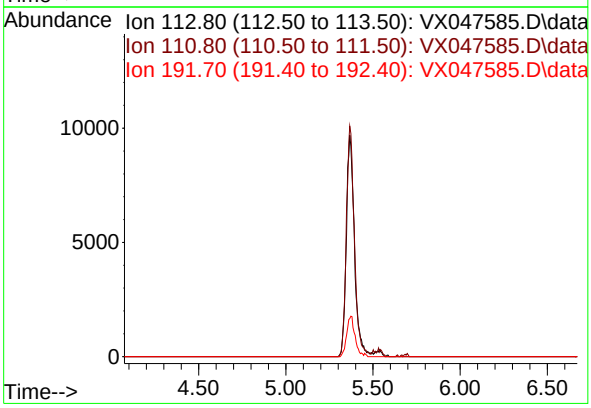


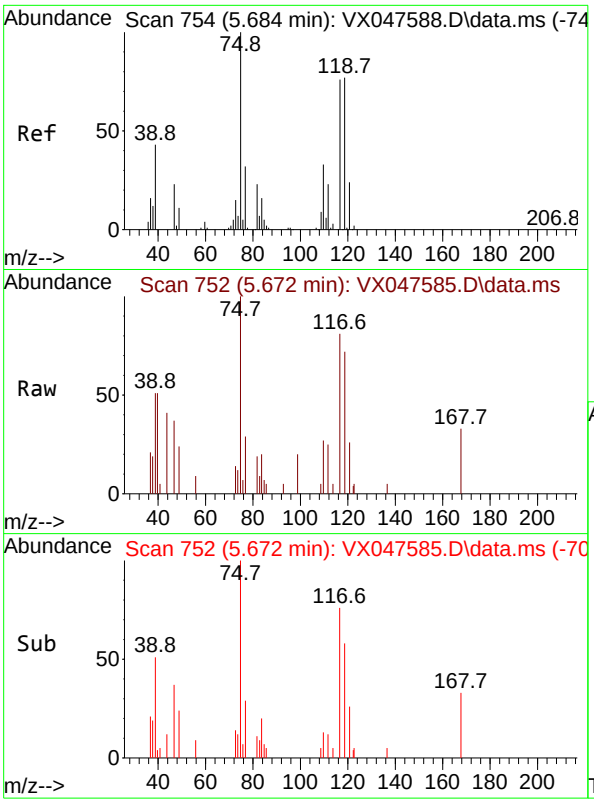
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.37 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	101.1
192	17.8

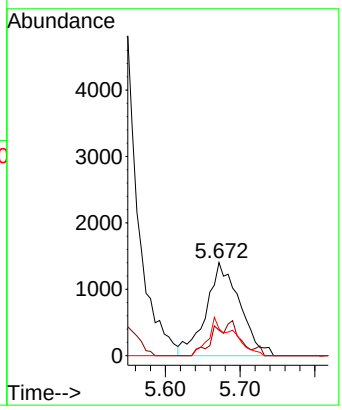




#36
1,1-Dichloropropene
Concen: 0.988 ug/l
RT: 5.672 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 437

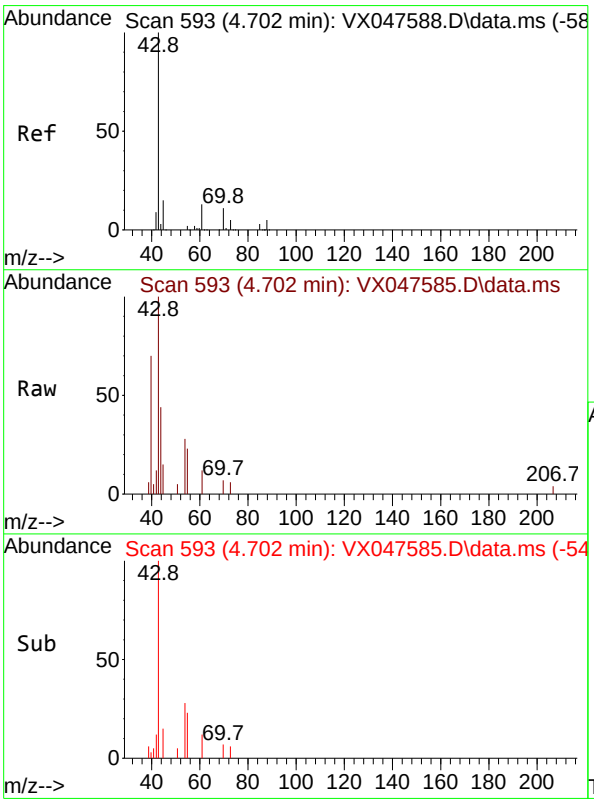
Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.7	50.1#
77	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

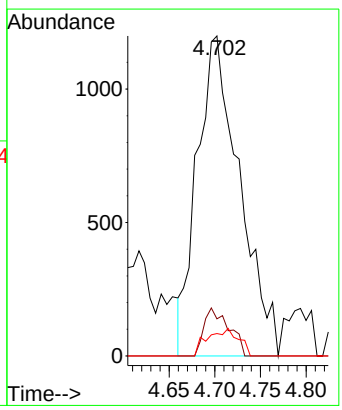
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

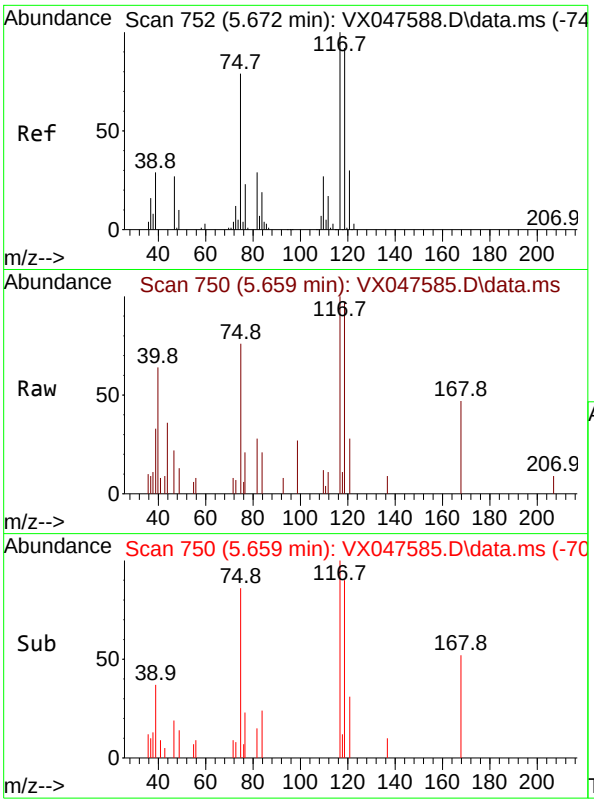


#37
Ethyl Acetate
Concen: 0.818 ug/l
RT: 4.702 min Scan# 593
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
61	8.9	9.8	14.8#
70	6.2	7.9	11.9#

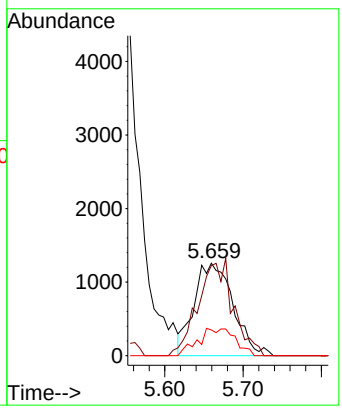




#38
Carbon Tetrachloride
Concen: 0.905 ug/l
RT: 5.659 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 434

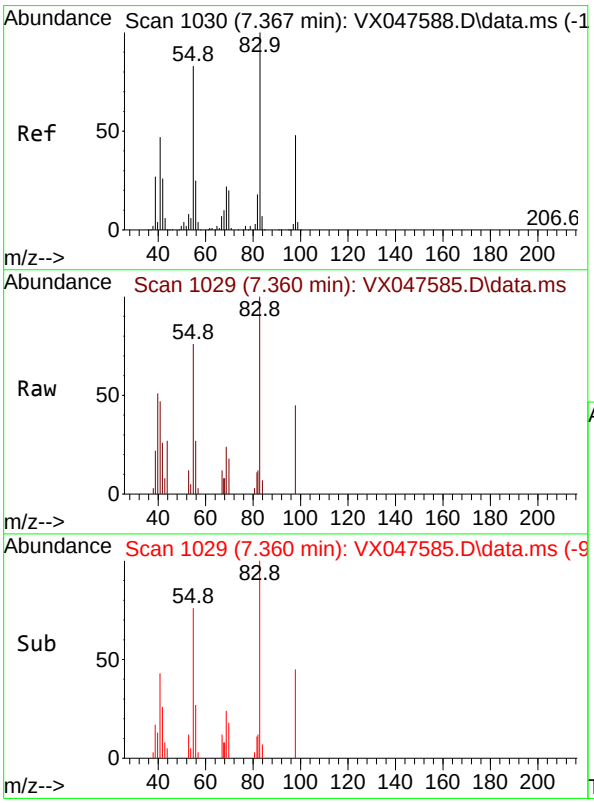
Ion	Ratio	Lower	Upper
117	100		
119	97.3	73.4	110.2
121	27.8	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

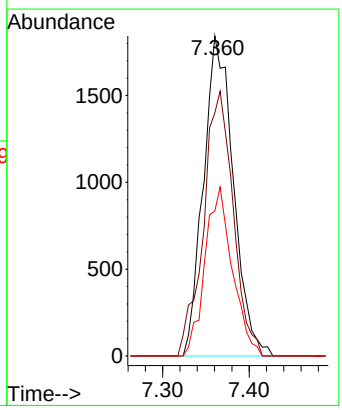
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

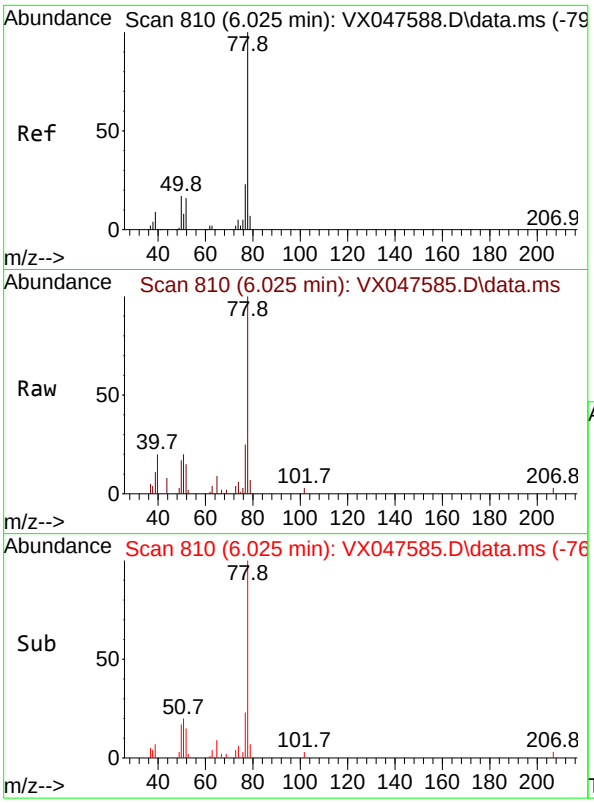


#39
Methylcyclohexane
Concen: 0.882 ug/l
RT: 7.360 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4428

Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	45.3	38.1	57.1





#40
Benzene
Concen: 0.894 ug/l
RT: 6.025 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

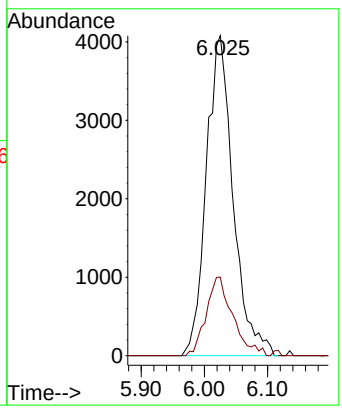
Tgt Ion: 78 Resp: 1201

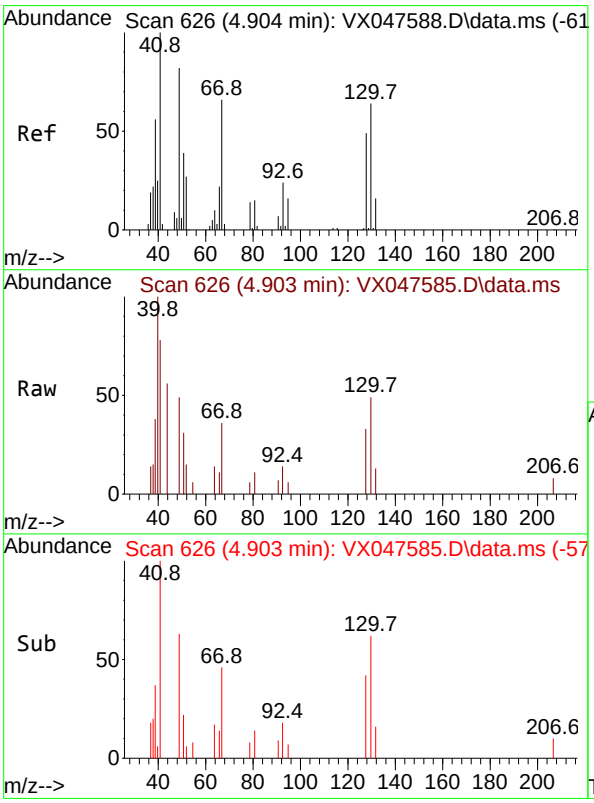
Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

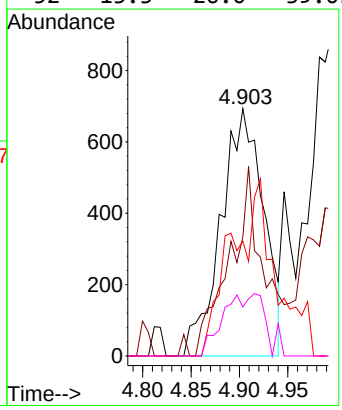


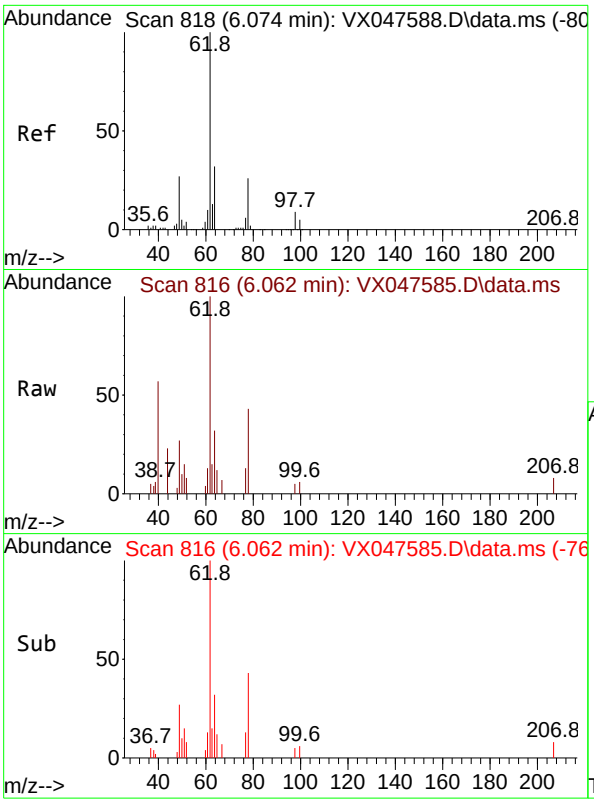


#41
Methacrylonitrile
Concen: 0.870 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 2128

Ion	Ratio	Lower	Upper
41	100		
39	60.3	43.3	64.9
67	23.5	58.6	87.8#
52	13.3	26.0	39.0#

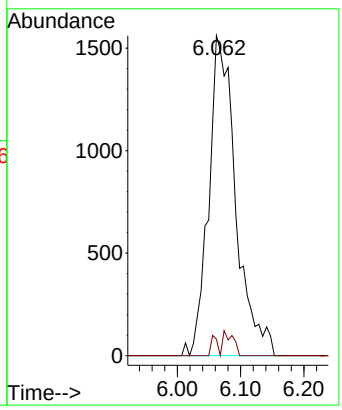




#42
1,2-Dichloroethane
Concen: 0.906 ug/l
RT: 6.062 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 463

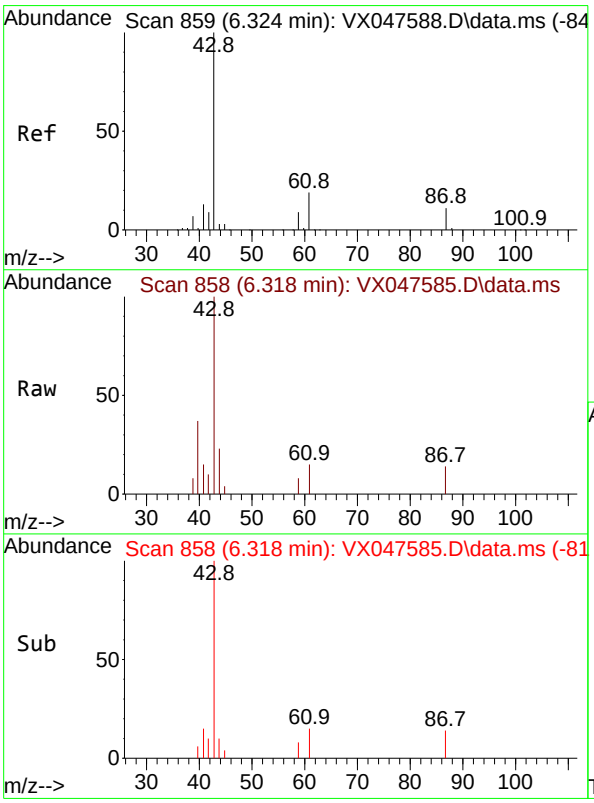
Ion	Ratio	Lower	Upper
62	100		
98	1.4	0.0	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

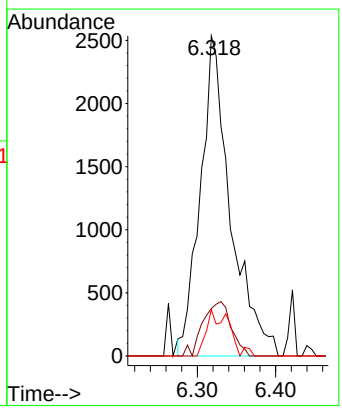
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

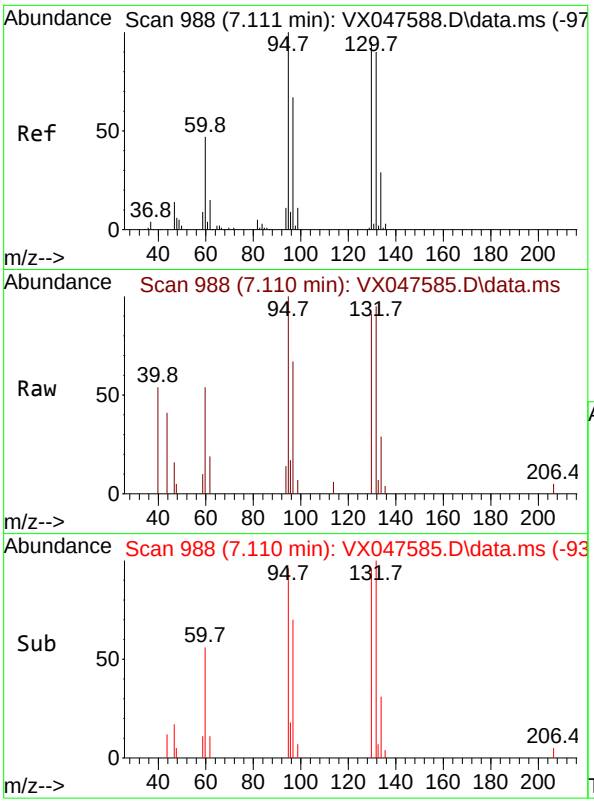


#43
Isopropyl Acetate
Concen: 0.873 ug/l
RT: 6.318 min Scan# 858
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 6784

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.2	22.8
87	10.1	9.6	14.4

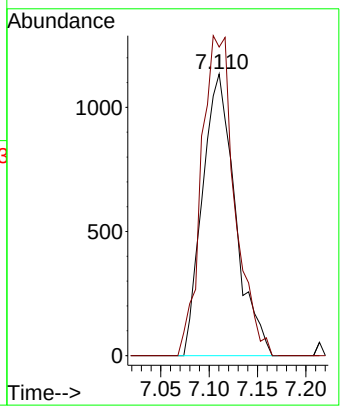




#44
Trichloroethene
Concen: 0.824 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:130 Resp: 267

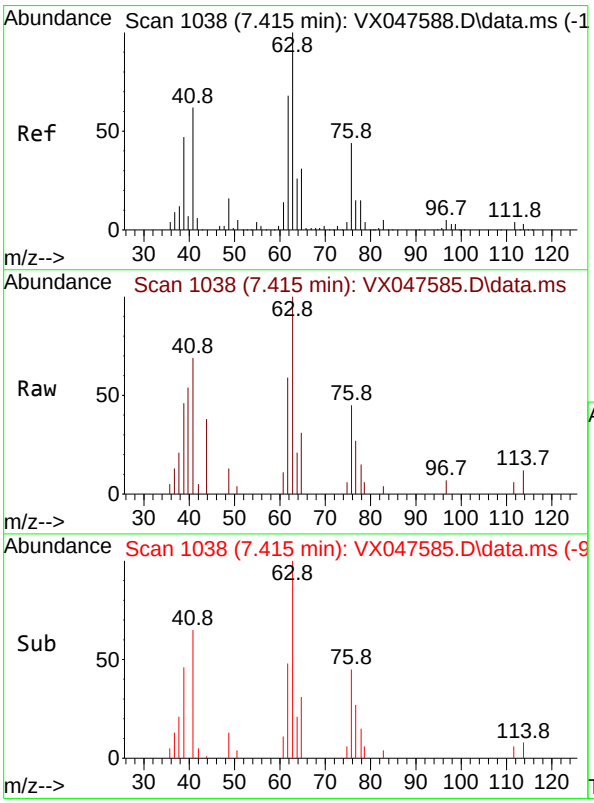
Ion	Ratio	Lower	Upper
130	100		
95	127.9	0.0	210.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

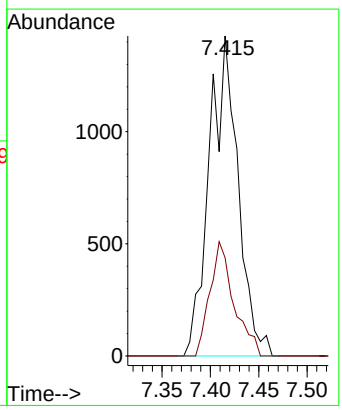
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

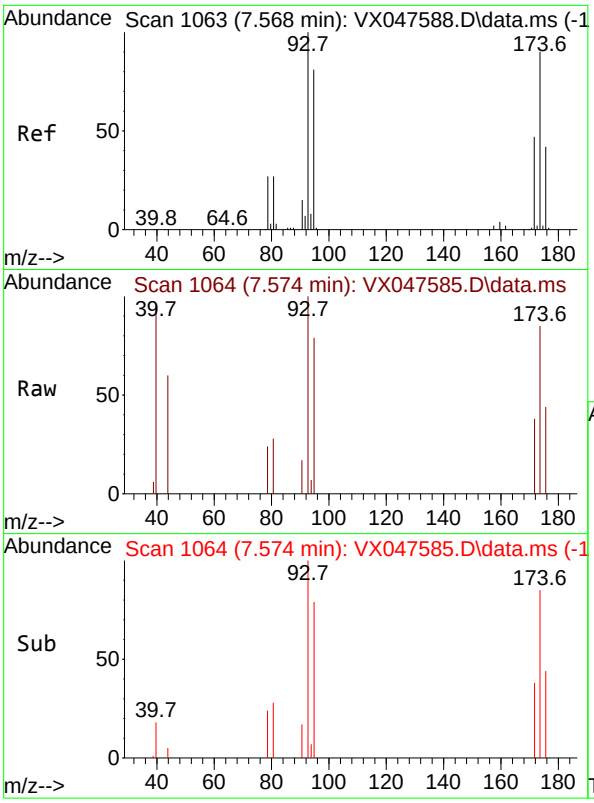


#45
1,2-Dichloropropane
Concen: 0.856 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 2945

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

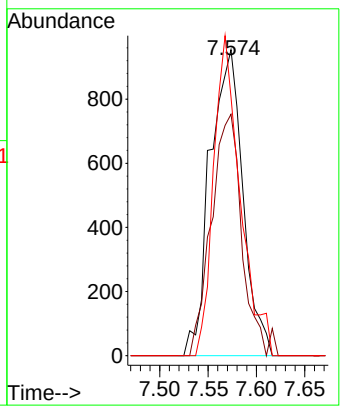




#46
Dibromomethane
Concen: 0.895 ug/l
RT: 7.574 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 93 Resp: 224

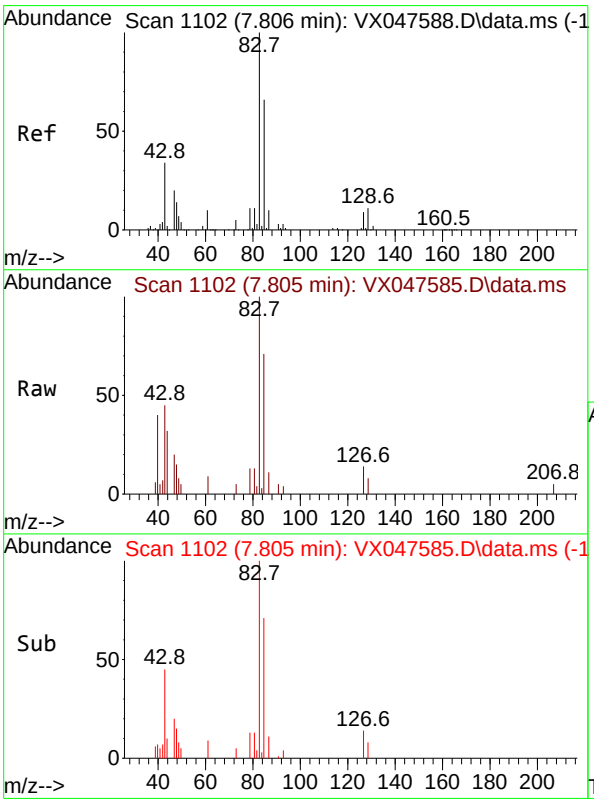
Ion	Ratio	Lower	Upper
93	100		
95	74.4	65.0	97.6
174	85.1	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

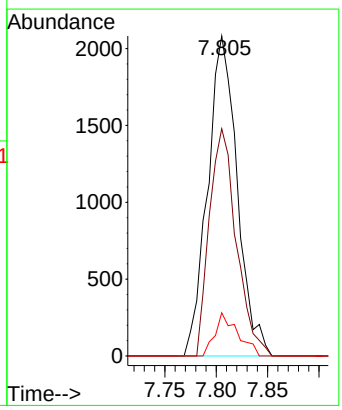
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

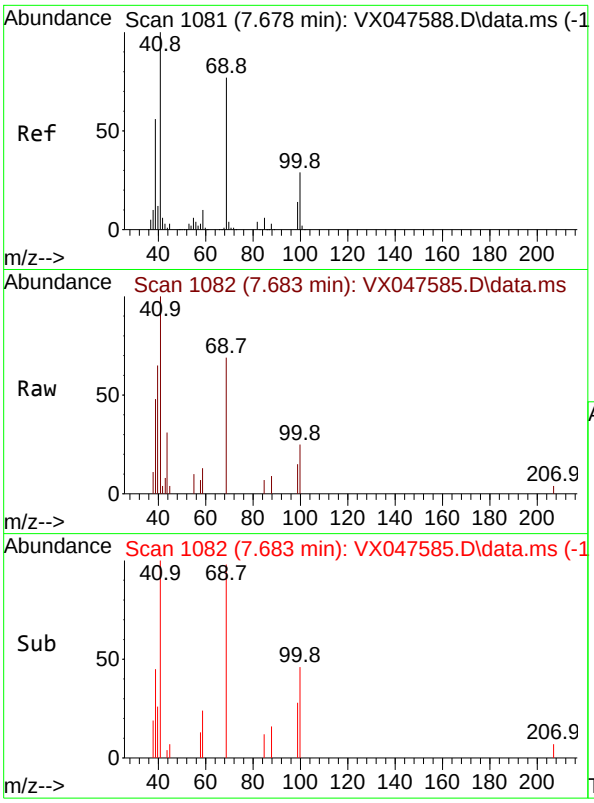


#47
Bromodichloromethane
Concen: 0.806 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4167

Ion	Ratio	Lower	Upper
83	100		
85	71.0	52.5	78.7
127	13.5	6.9	10.3#





#48
Methyl methacrylate
Concen: 0.867 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

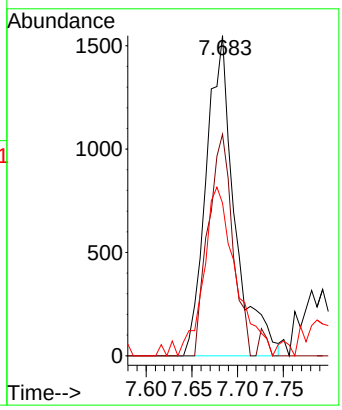
Tgt Ion: 41 Resp: 335

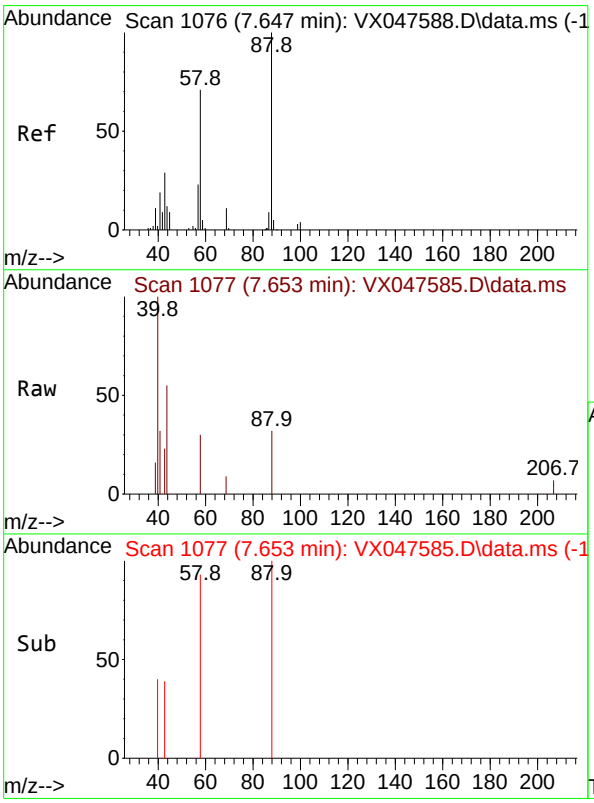
Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2#
39	59.5	45.8	68.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

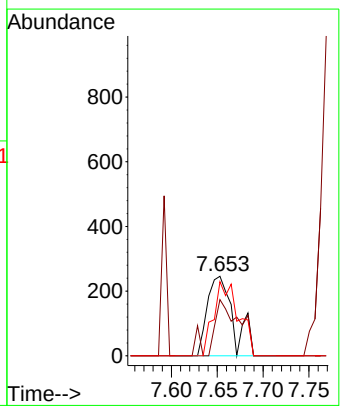


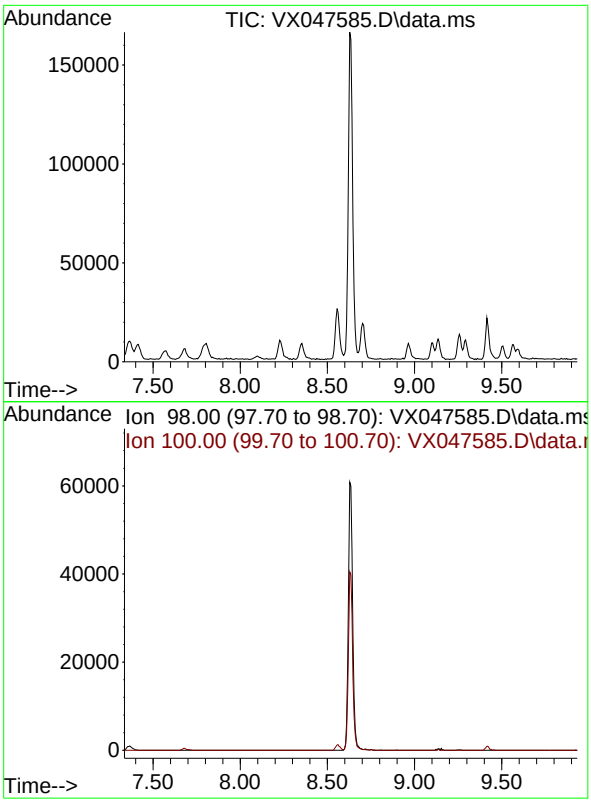


#49
1,4-Dioxane
Concen: 12.477 ug/l m
RT: 7.653 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 88 Resp: 488

Ion	Ratio	Lower	Upper
88	100		
43	64.1	30.2	45.2#
58	88.9	59.5	89.3





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.63 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

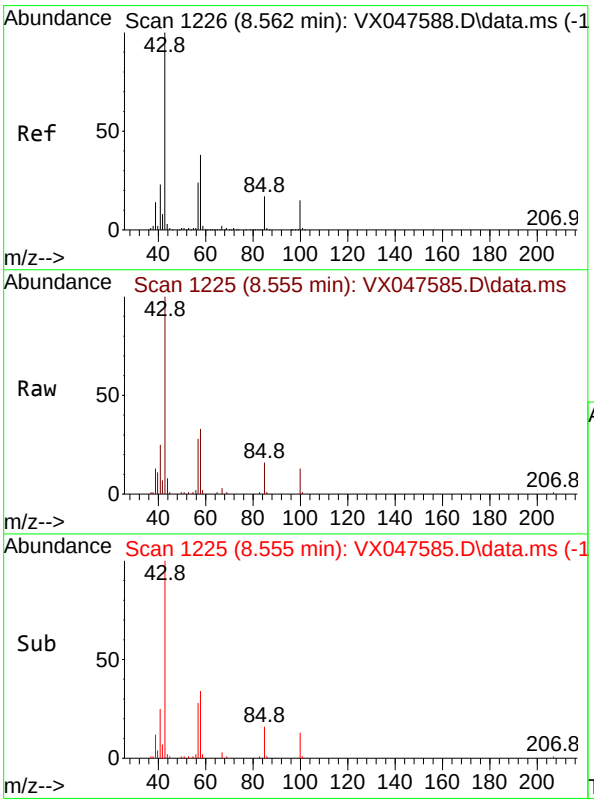
Tgt Ion: 98

Sig	Exp Ratio
98	100
100	66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

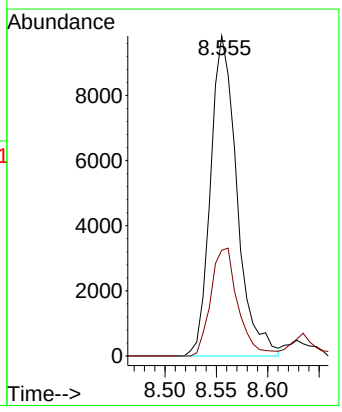
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

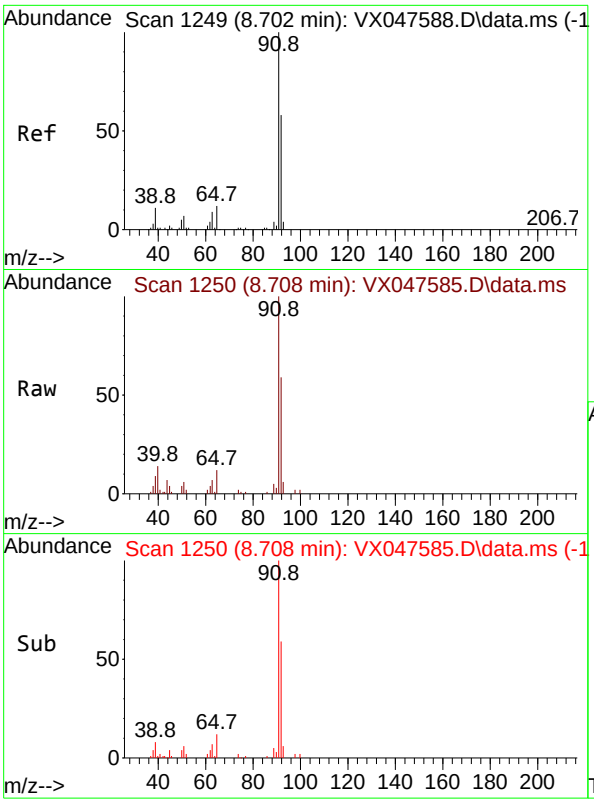


#51
4-Methyl-2-Pentanone
Concen: 4.085 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 17596

Ion	Ratio	Lower	Upper
43	100		
58	34.7	30.3	45.5

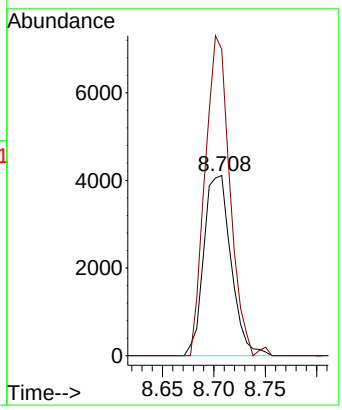




#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 92 Resp: 759

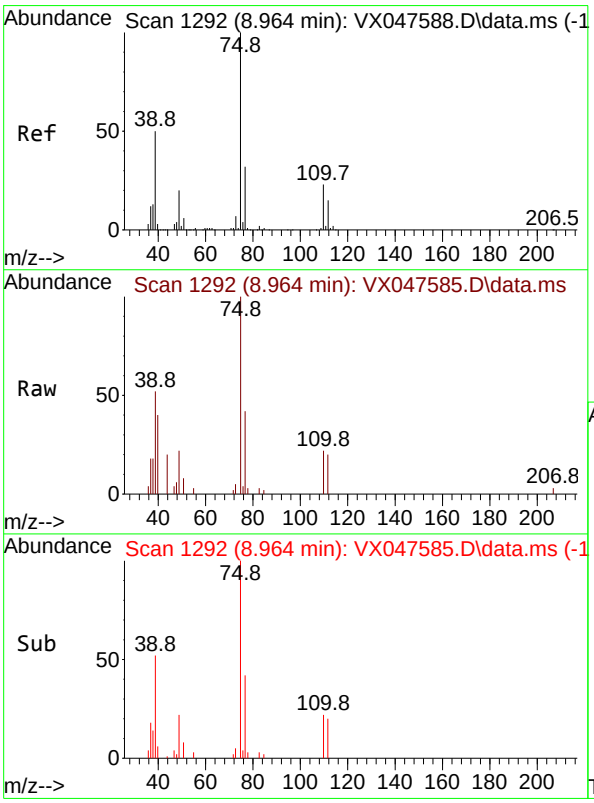
Ion	Ratio	Lower	Upper
92	100		
91	160.7	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

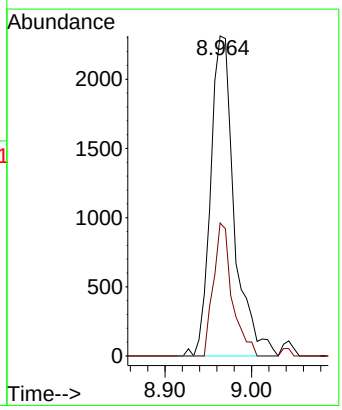
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

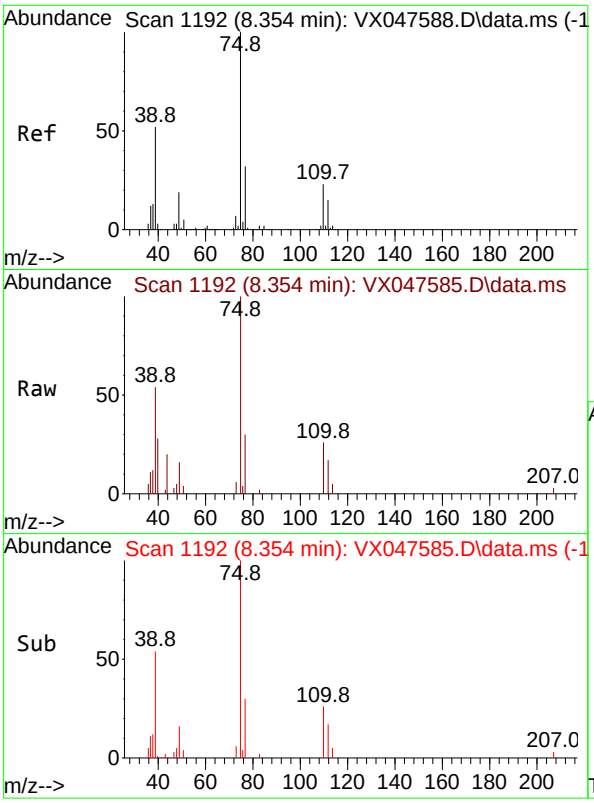


#53
t-1,3-Dichloropropene
Concen: 0.834 ug/l
RT: 8.964 min Scan# 1292
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4398

Ion	Ratio	Lower	Upper
75	100		
77	41.5	25.4	38.2#

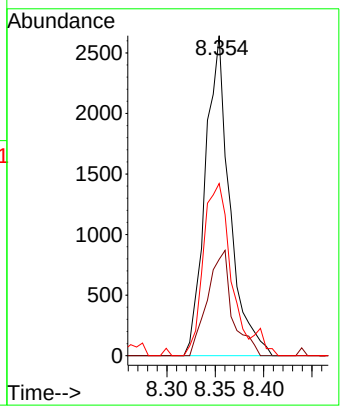




#54
cis-1,3-Dichloropropene
Concen: 0.823 ug/l
RT: 8.354 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 463

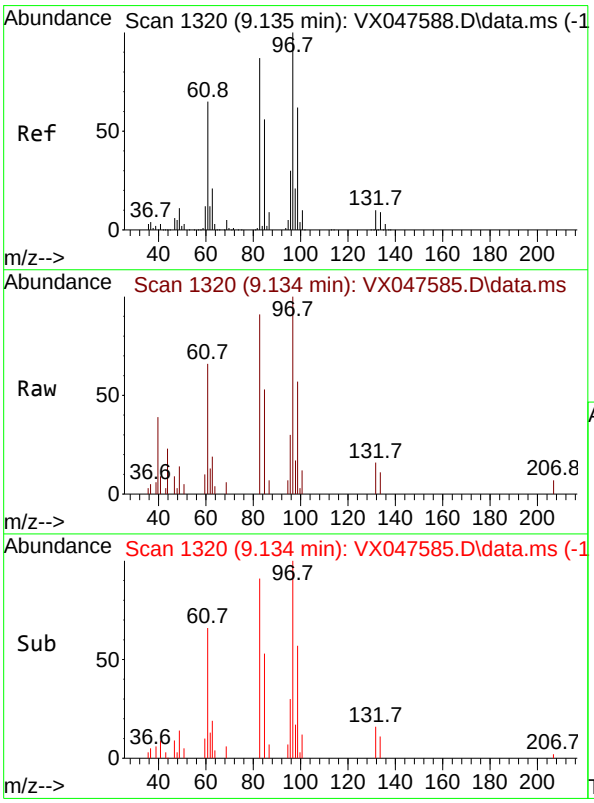
Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.8	38.6
39	25.6	41.4	62.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

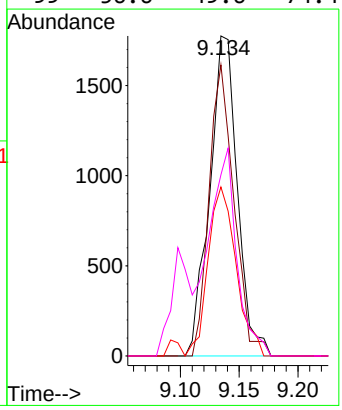
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

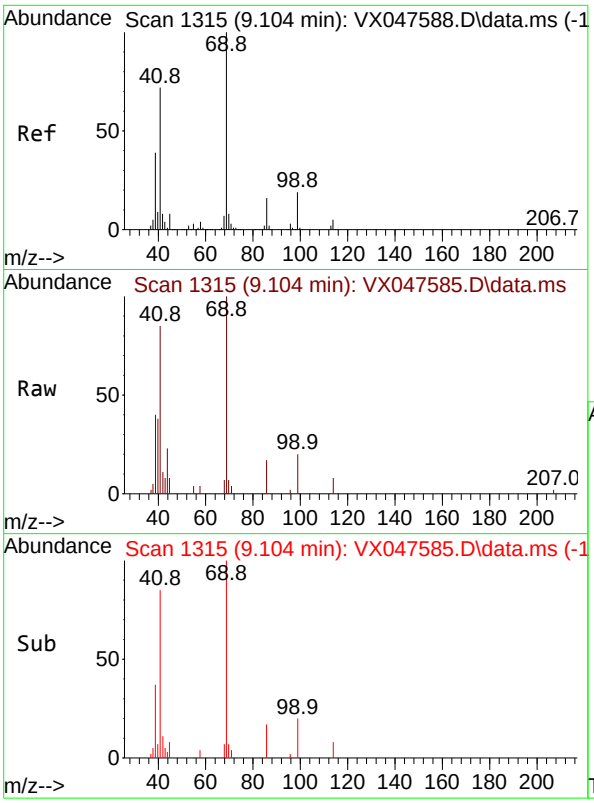


#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.134 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 2918

Ion	Ratio	Lower	Upper
97	100		
83	90.9	69.6	104.4
85	52.8	45.0	67.6
99	56.6	49.6	74.4

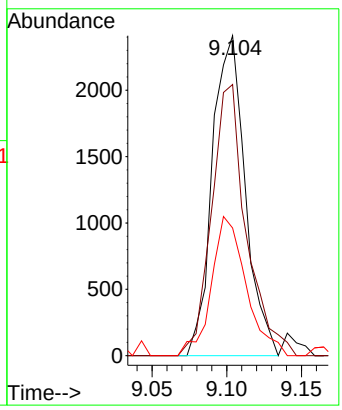




#56
Ethyl methacrylate
Concen: 0.734 ug/l
RT: 9.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 69 Resp: 367

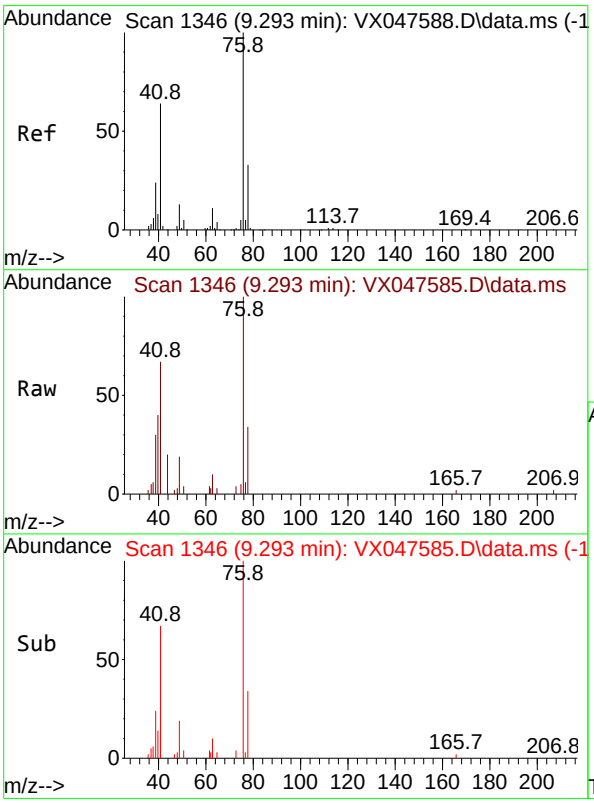
Ion	Ratio	Lower	Upper
69	100		
41	89.4	58.6	87.8
39	46.0	31.5	47.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

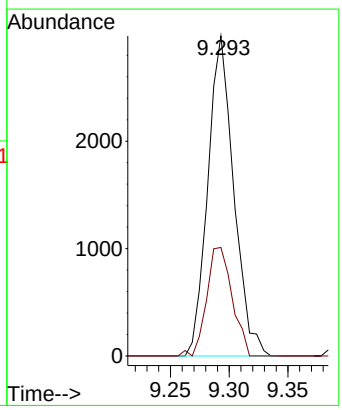
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

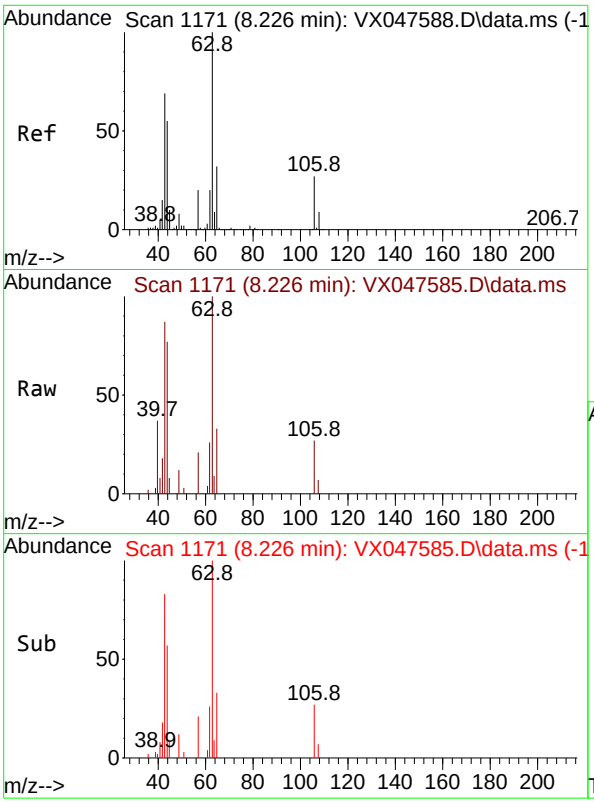


#57
1,3-Dichloropropane
Concen: 0.835 ug/l
RT: 9.293 min Scan# 1346
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 76 Resp: 4580

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4

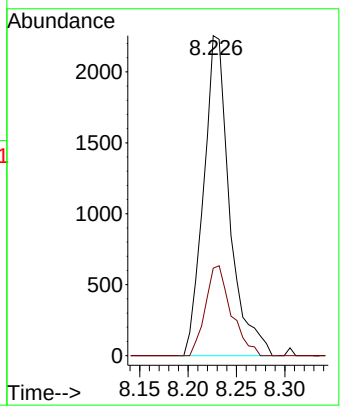




#58
2-Chloroethyl Vinyl ether
Concen: 9.665 ug/l
RT: 8.226 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 422

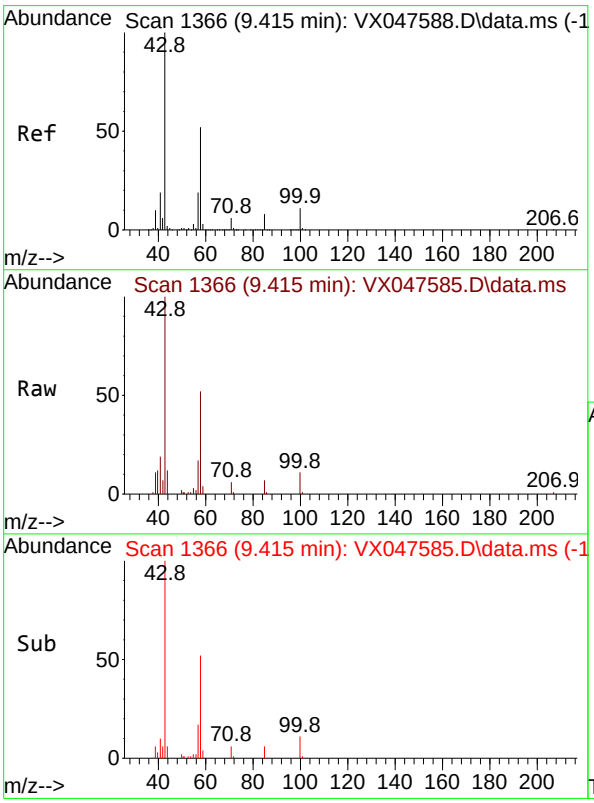
Ion	Ratio	Lower	Upper
63	100		
106	27.9	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

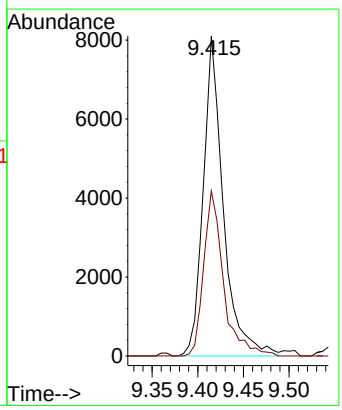
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

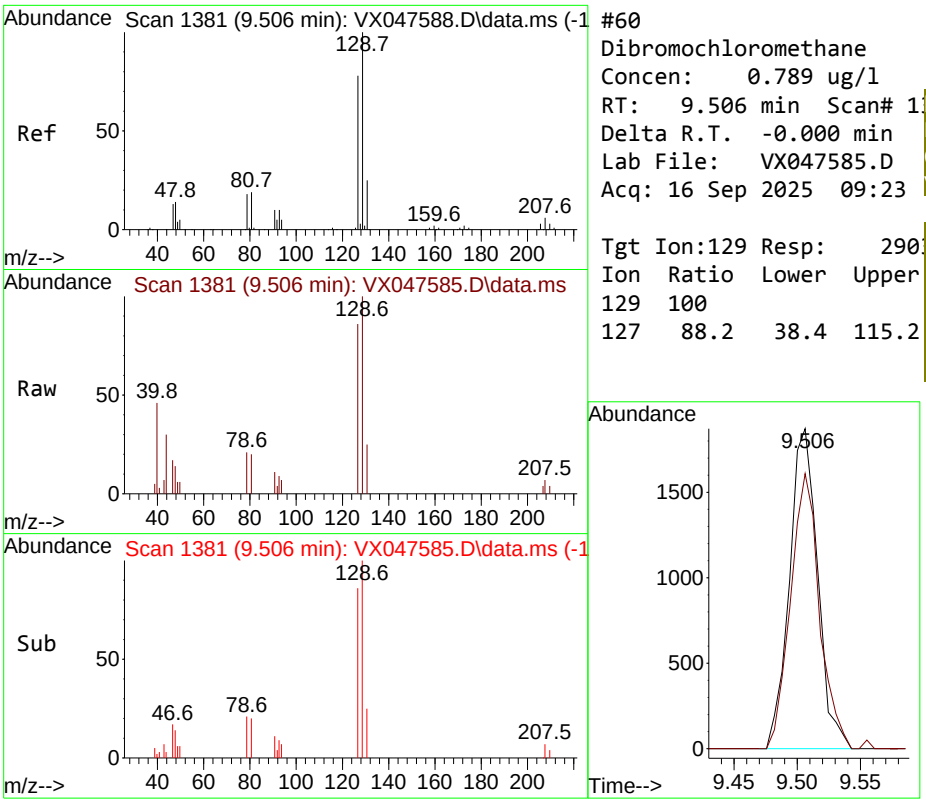


#59
2-Hexanone
Concen: 4.003 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 12385

Ion	Ratio	Lower	Upper
43	100		
58	50.7	26.1	78.2





#60
Dibromochloromethane
Concen: 0.789 ug/l
RT: 9.506 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

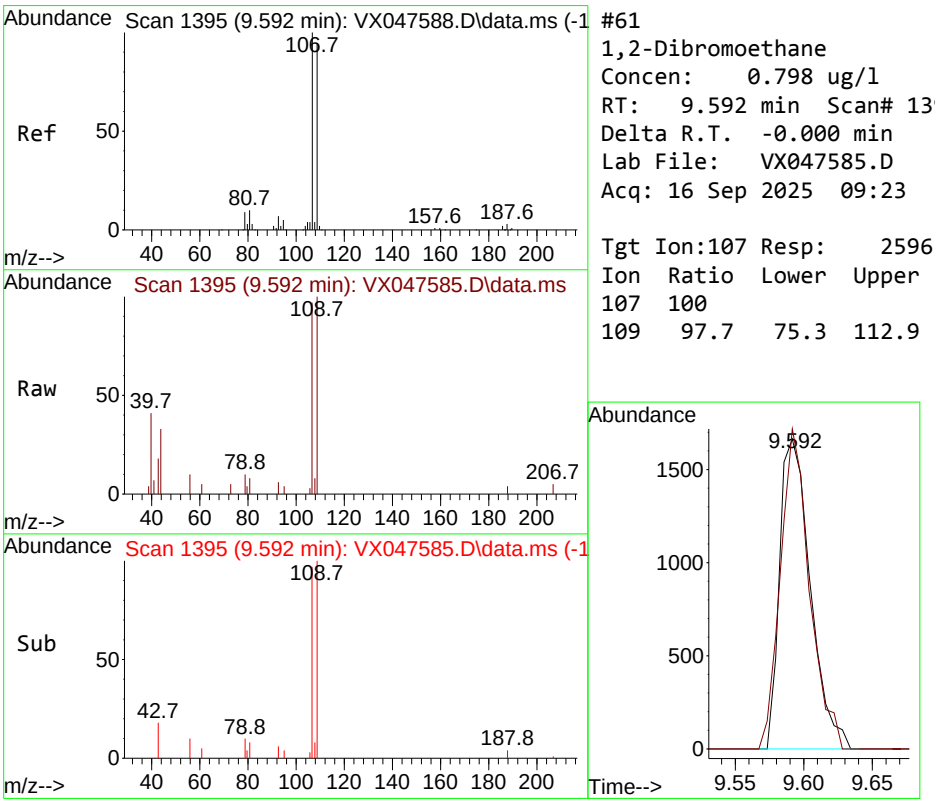
Tgt Ion:129 Resp: 290

Ion	Ratio	Lower	Upper
129	100		
127	88.2	38.4	115.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

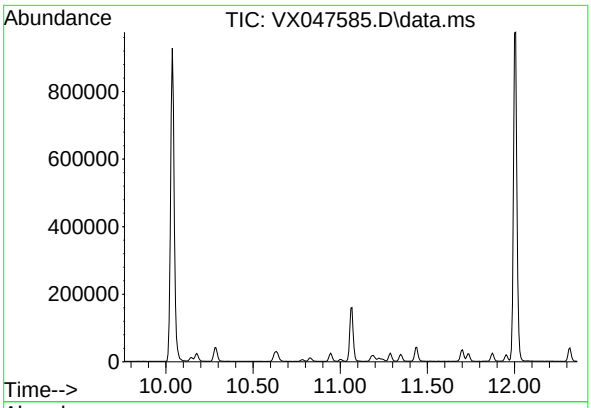
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#61
1,2-Dibromoethane
Concen: 0.798 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:107 Resp: 2596

Ion	Ratio	Lower	Upper
107	100		
109	97.7	75.3	112.9



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.06 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

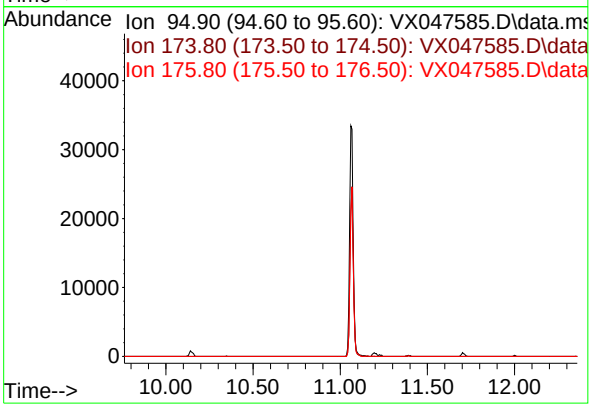
Tgt Ion: 95

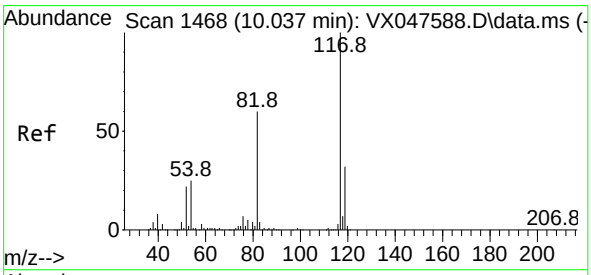
Sig	Exp Ratio
95	100
174	70.8
176	69.2

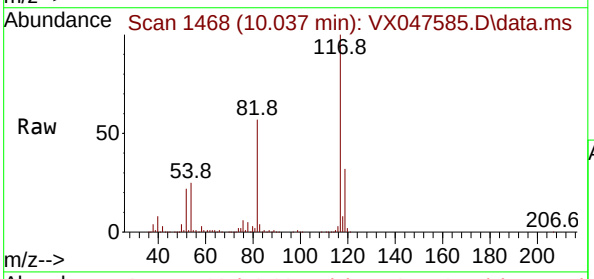
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

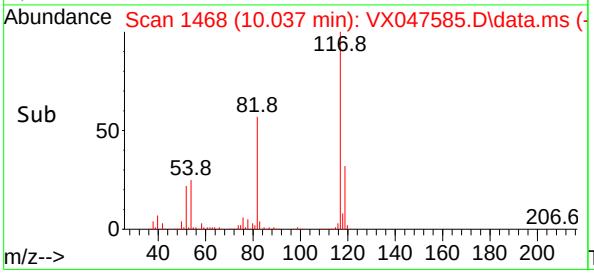
Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025





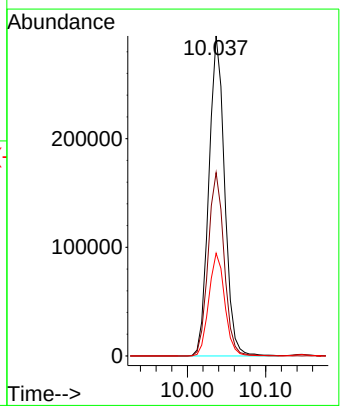


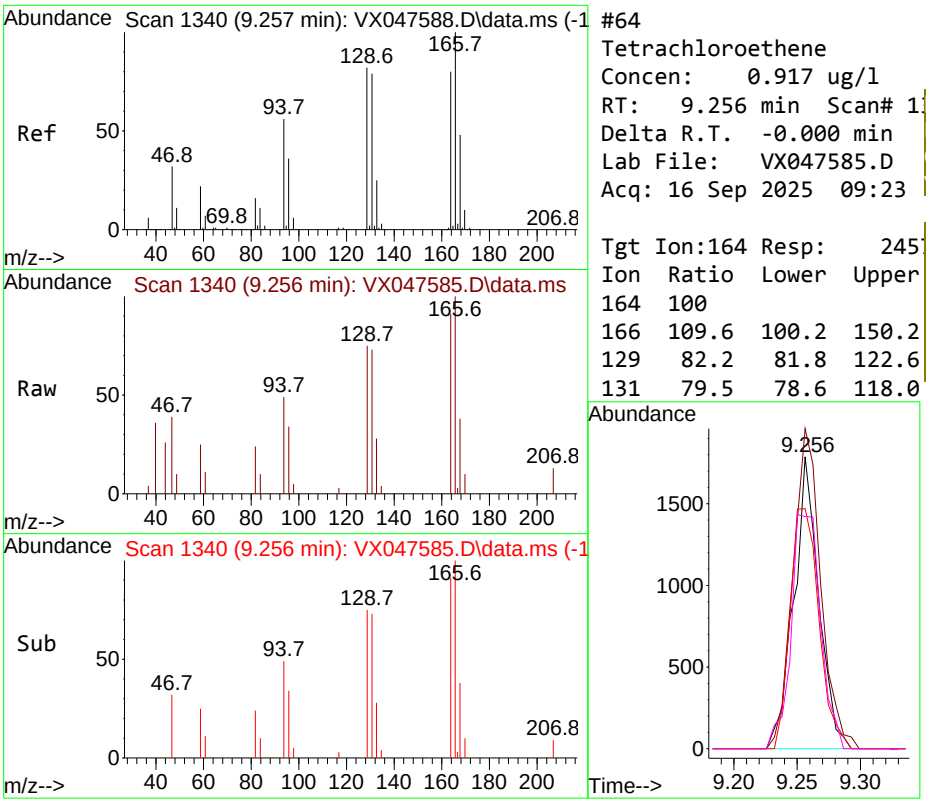


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 410953

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	32.1	25.2	37.8





#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

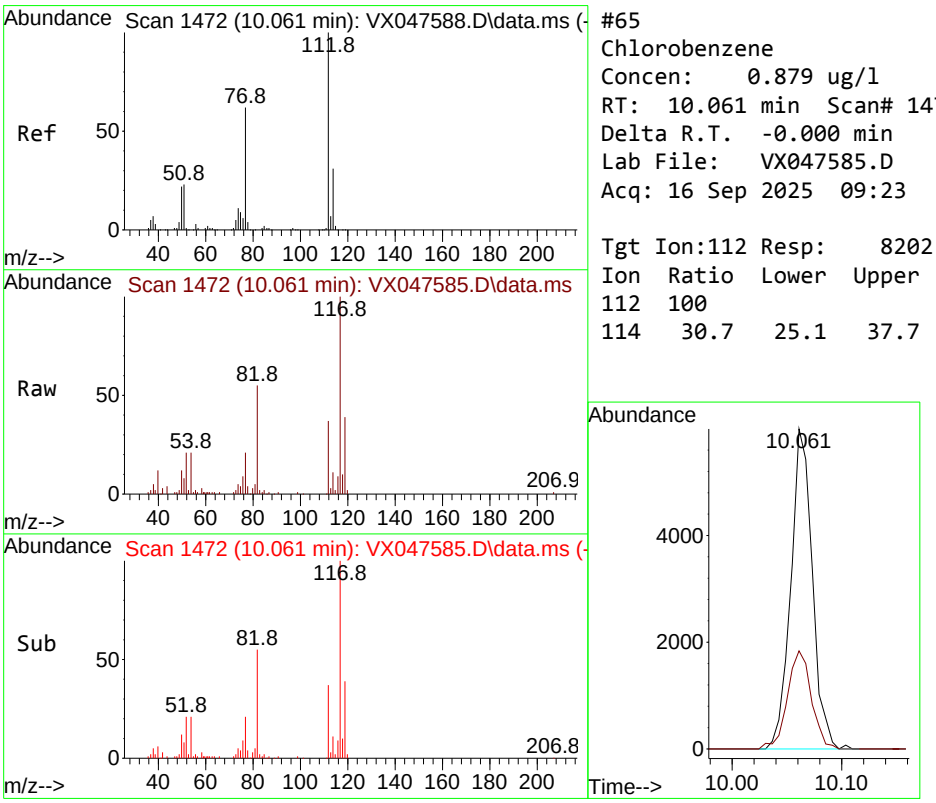
Tgt Ion:164 Resp: 245

Ion	Ratio	Lower	Upper
164	100		
166	109.6	100.2	150.2
129	82.2	81.8	122.6
131	79.5	78.6	118.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

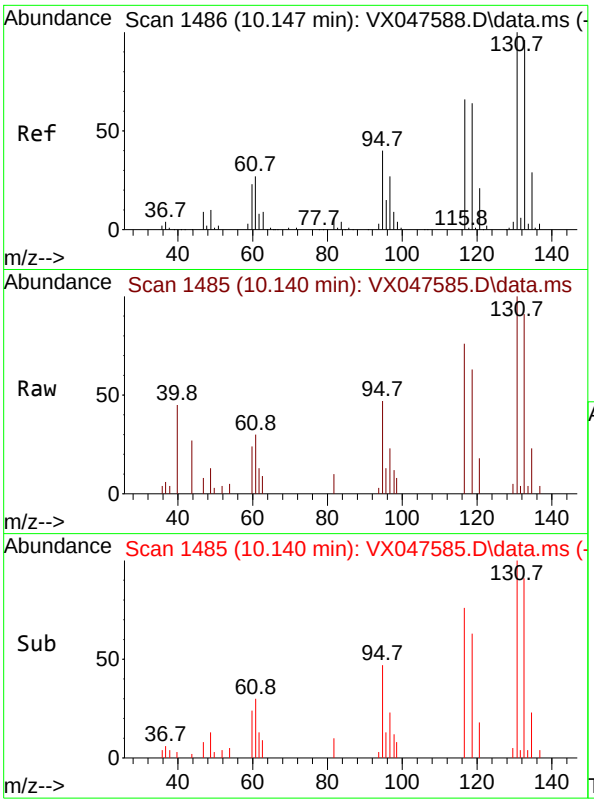
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#65
Chlorobenzene
Concen: 0.879 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:112 Resp: 8202

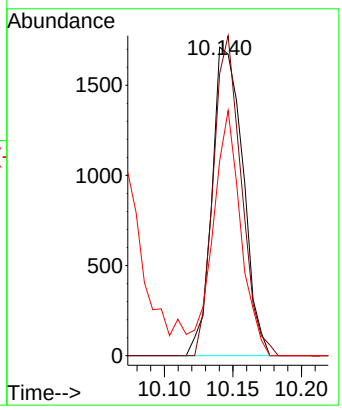
Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.1	37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:131 Resp: 268

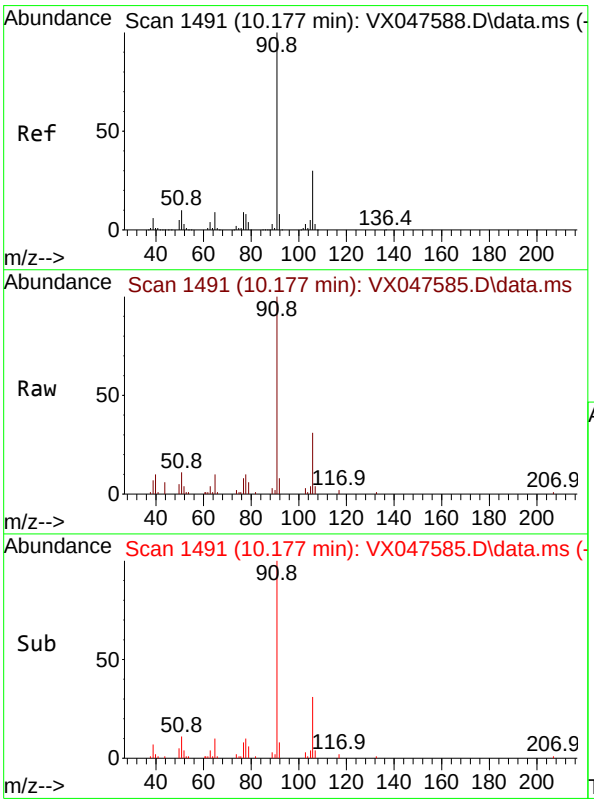
Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	0.0	32.0	96.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

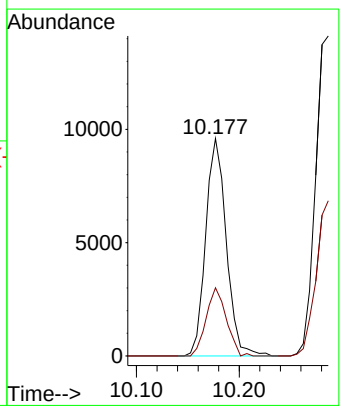
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

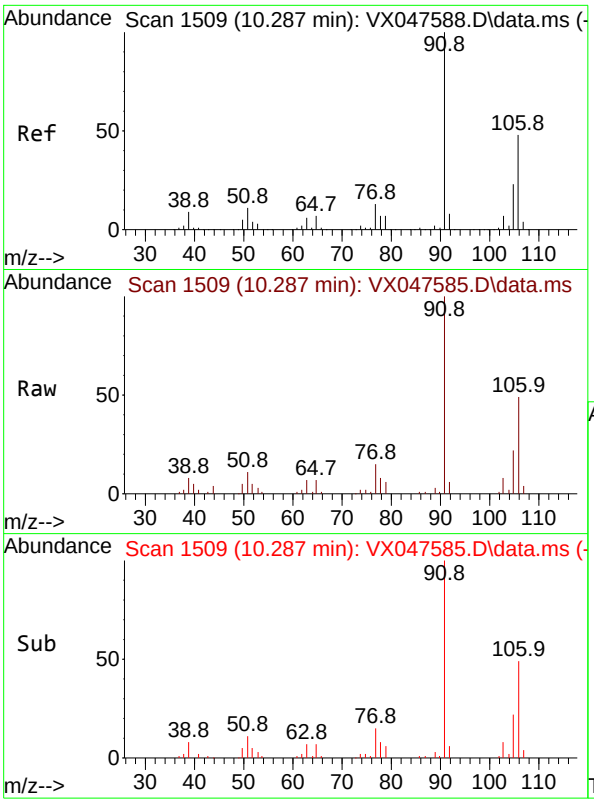


#67
Ethyl Benzene
Concen: 0.829 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 13360

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.3	36.5

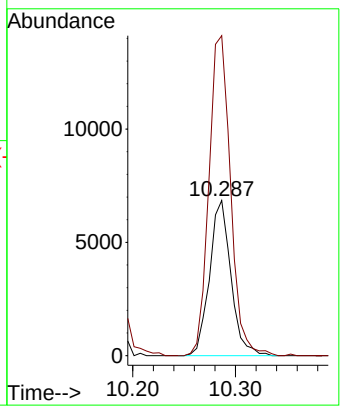




#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 992

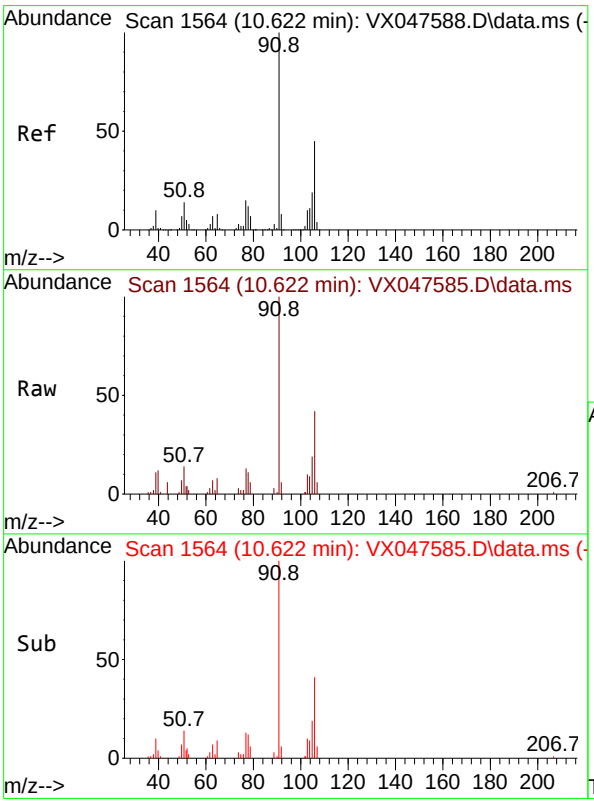
Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

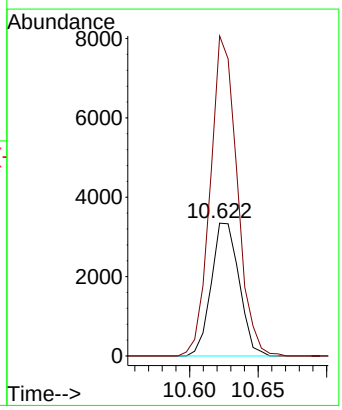
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

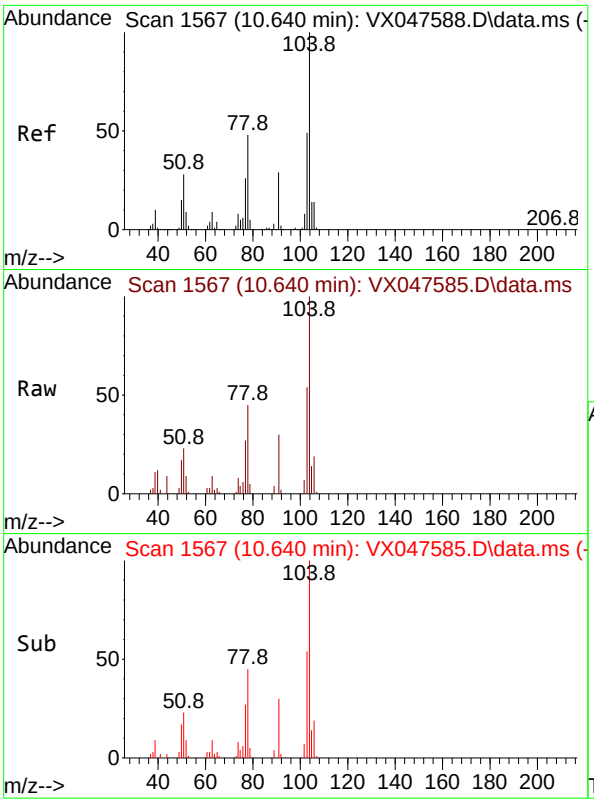


#69
o-Xylene
Concen: 0.816 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 4734

Ion	Ratio	Lower	Upper
106	100		
91	232.4	111.1	333.4

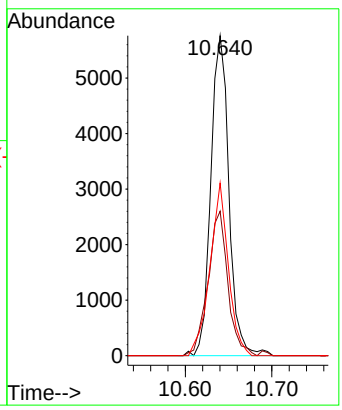




#70
Styrene
Concen: 0.824 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:104 Resp: 837

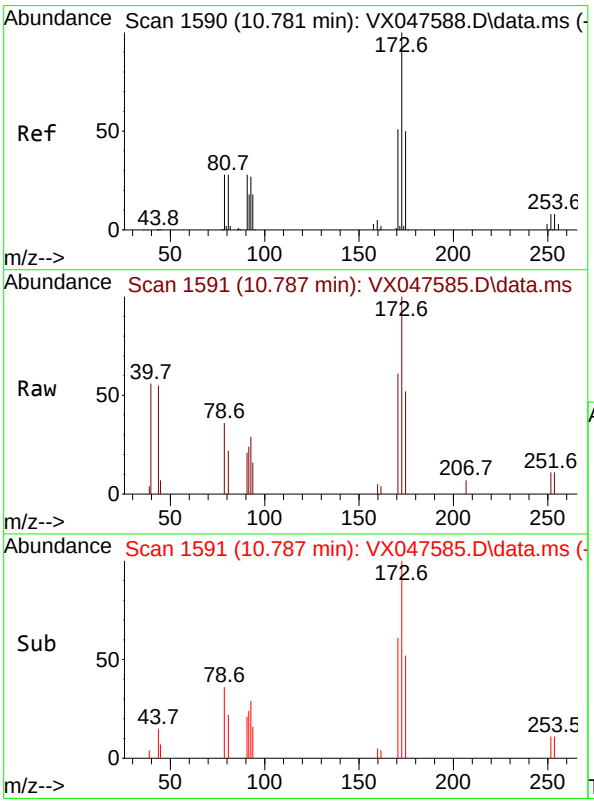
Ion	Ratio	Lower	Upper
104	100		
78	49.5	43.1	64.7
103	55.0	43.1	64.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

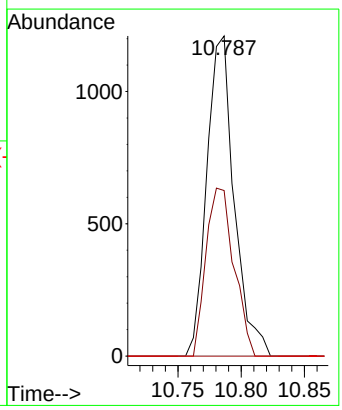
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

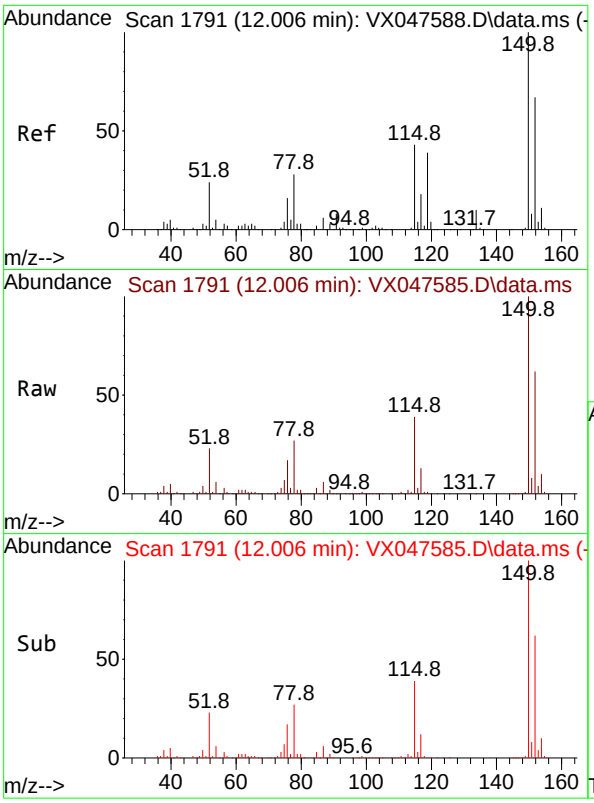


#71
Bromoform
Concen: 0.755 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:173 Resp: 1816

Ion	Ratio	Lower	Upper
173	100		
175	53.8	24.9	74.6
254	0.0	0.1	0.1#

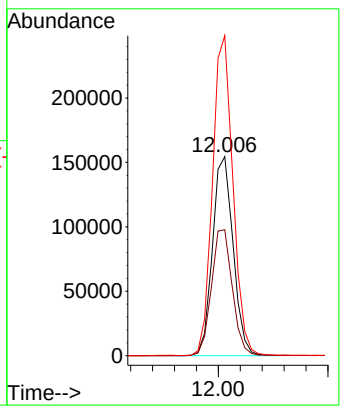




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:152 Resp: 20197

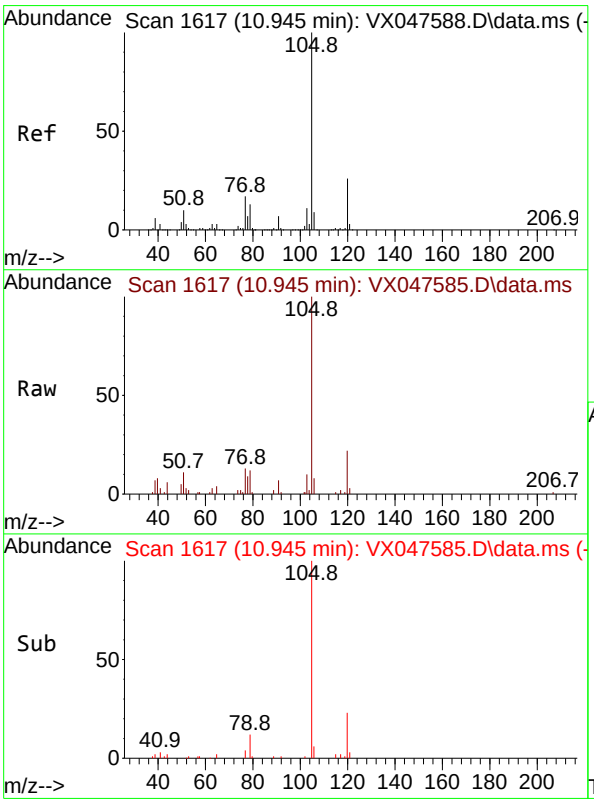
Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.9	134.5
150	158.7	0.0	352.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

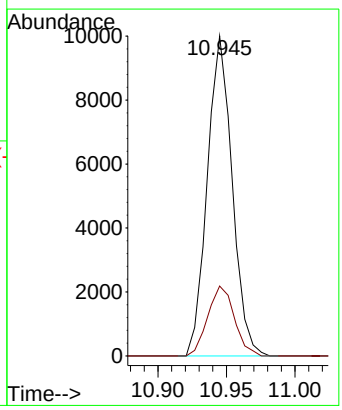
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

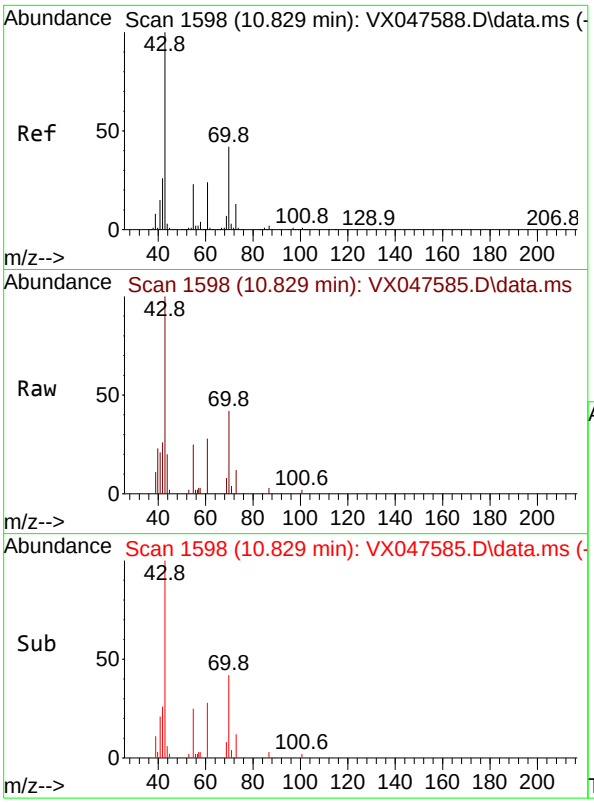


#73
Isopropylbenzene
Concen: 0.822 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 12618

Ion	Ratio	Lower	Upper
105	100		
120	23.4	12.8	38.4

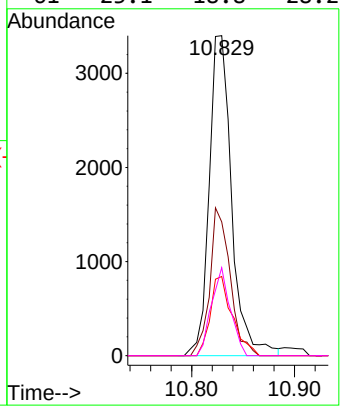




#74
N-amyl acetate
Concen: 0.737 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 515

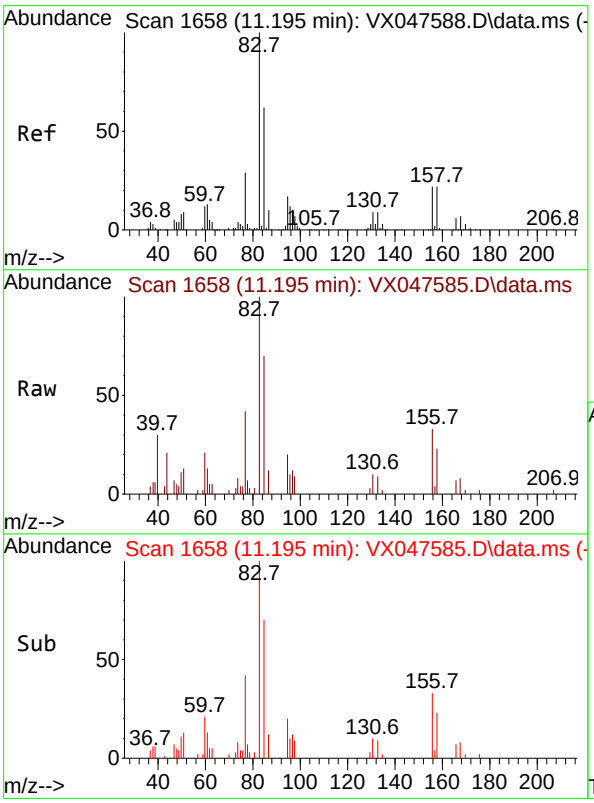
Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	24.3	18.9	28.3
61	23.1	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

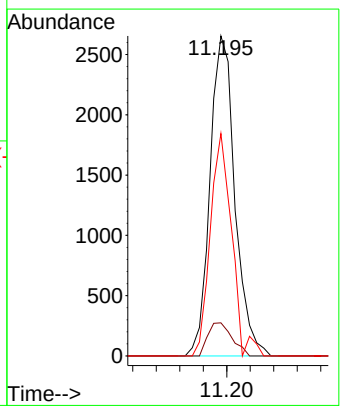
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

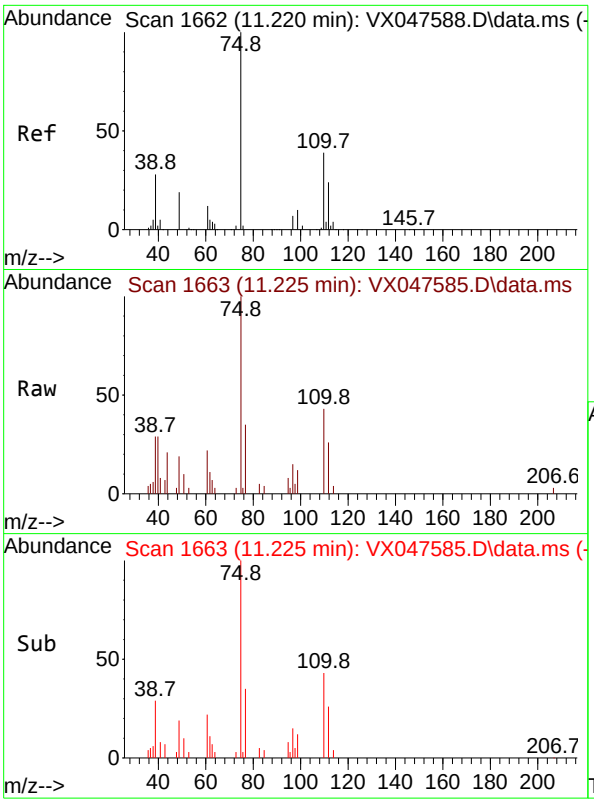


#75
1,1,2,2-Tetrachloroethane
Concen: 0.839 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 3900

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	59.8	31.6	95.0





#76
1,2,3-Trichloropropane
Concen: 0.816 ug/l m
RT: 11.225 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

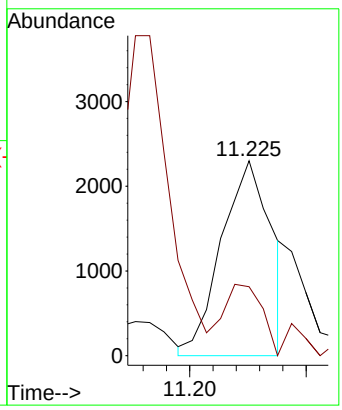
Tgt Ion: 75 Resp: 342

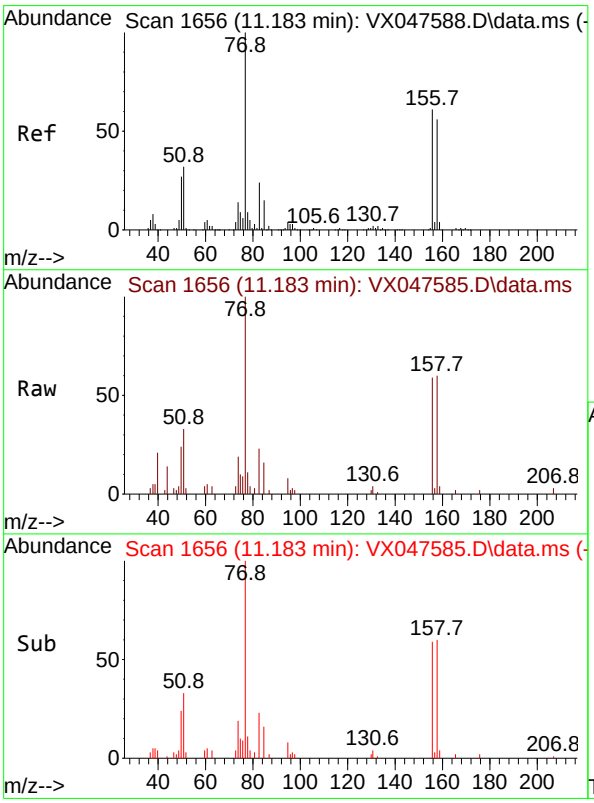
Ion	Ratio	Lower	Upper
75	100		
77	34.6	18.8	56.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

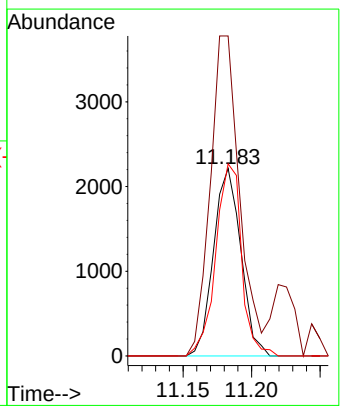


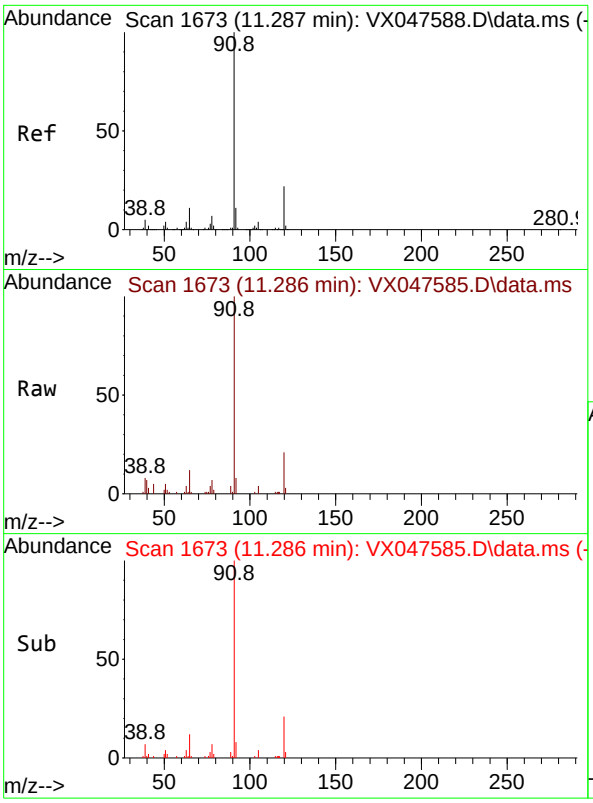


#77
Bromobenzene
Concen: 0.811 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:156 Resp: 3069

Ion	Ratio	Lower	Upper
156	100		
77	182.3	89.7	269.1
158	96.6	47.9	143.6

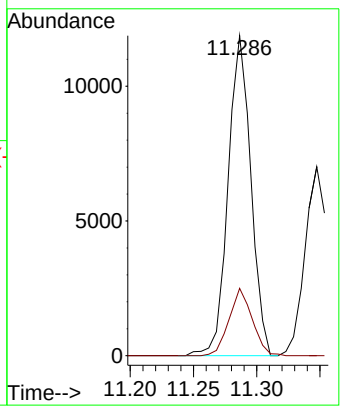




#78
n-propylbenzene
Concen: 0.819 ug/l
RT: 11.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 1486

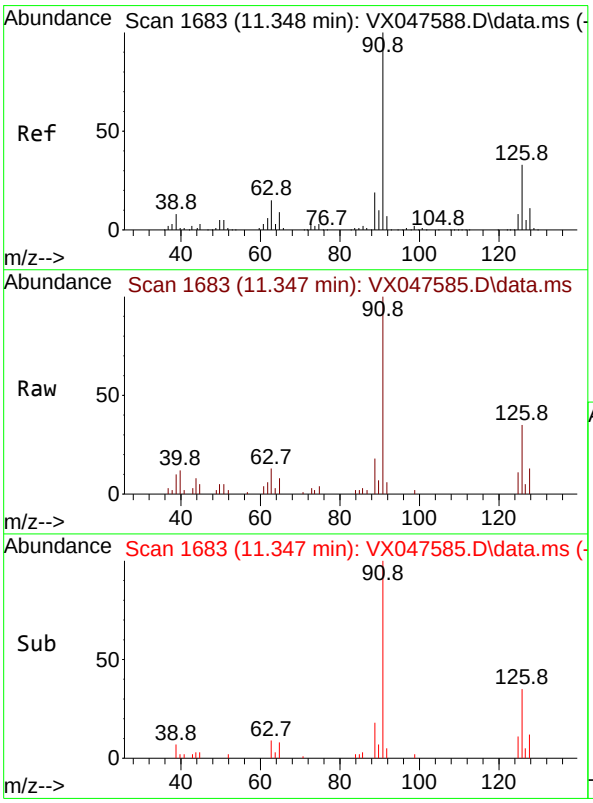
Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

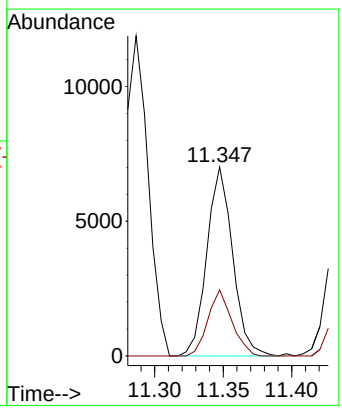
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

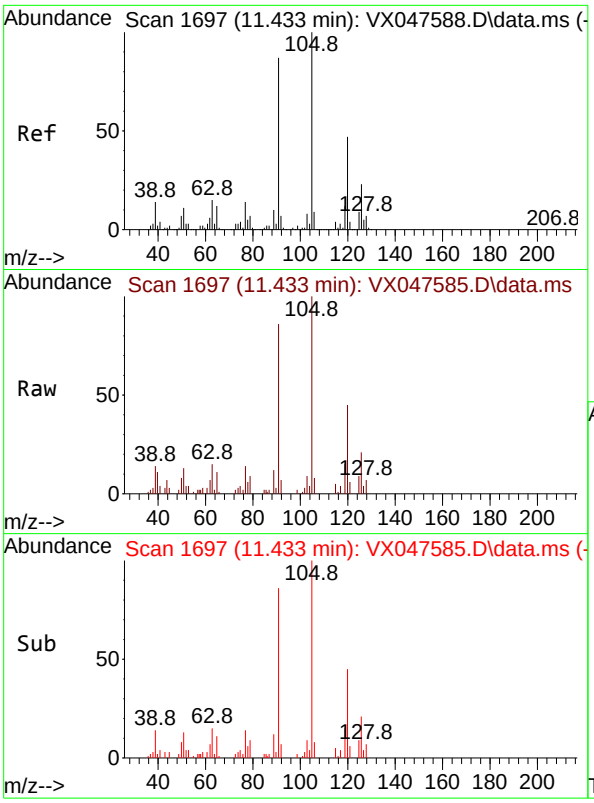


#79
2-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 9195

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

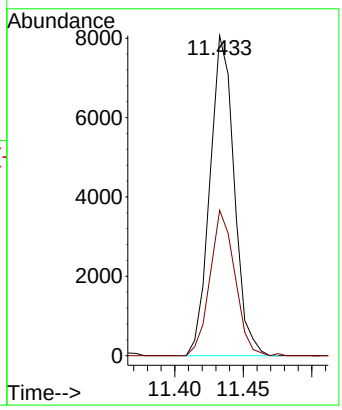




#80
1,3,5-Trimethylbenzene
Concen: 0.787 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 992

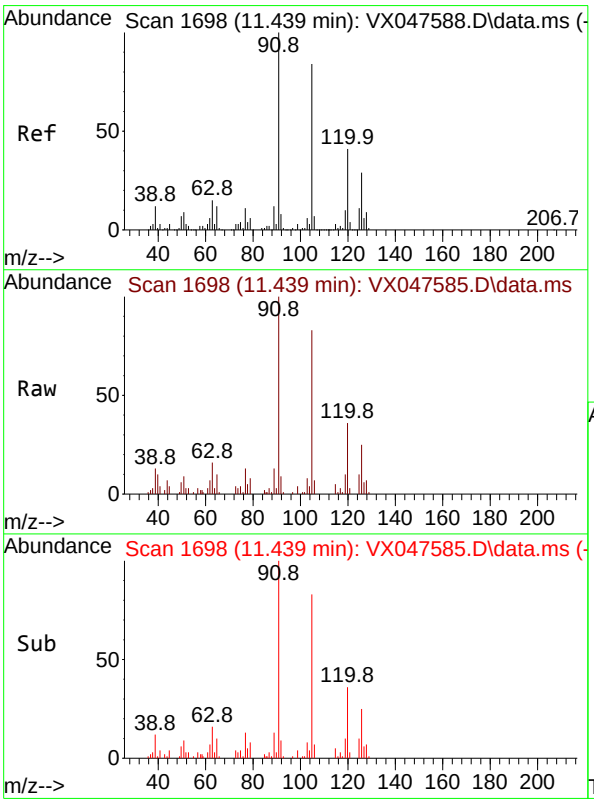
Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.6	70.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

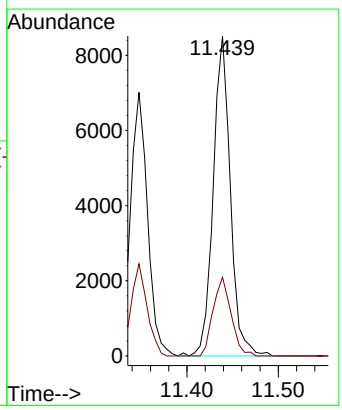
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

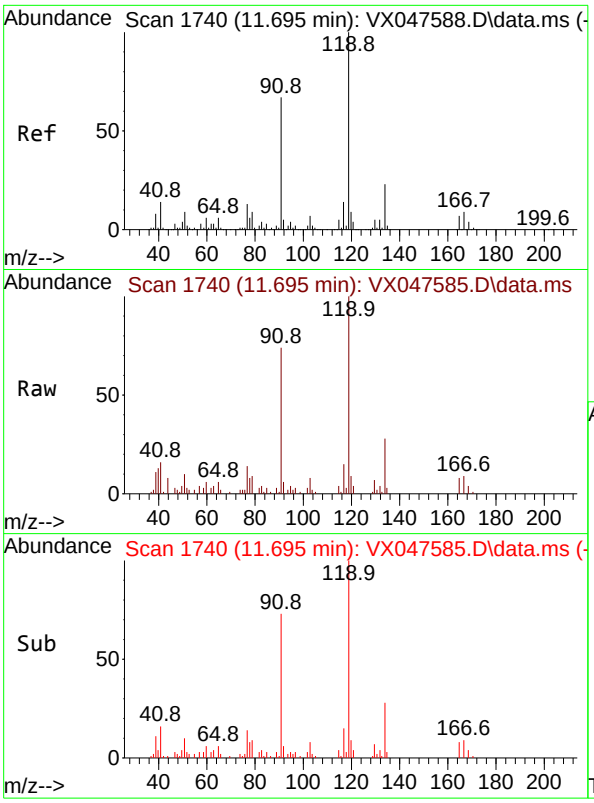


#82
4-Chlorotoluene
Concen: 0.847 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 11123

Ion	Ratio	Lower	Upper
91	100		
126	25.8	14.2	42.6

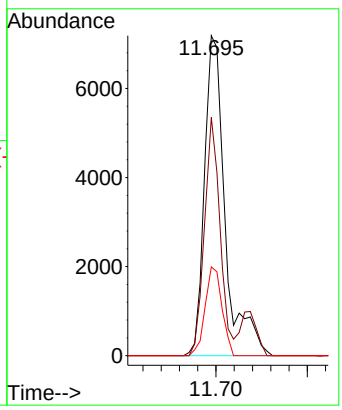




#83
tert-Butylbenzene
Concen: 0.876 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 1131

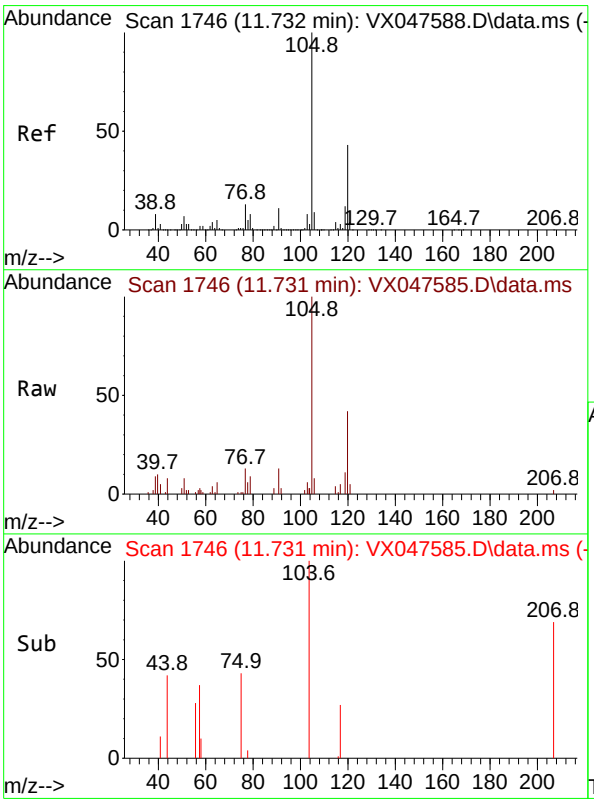
Ion	Ratio	Lower	Upper
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

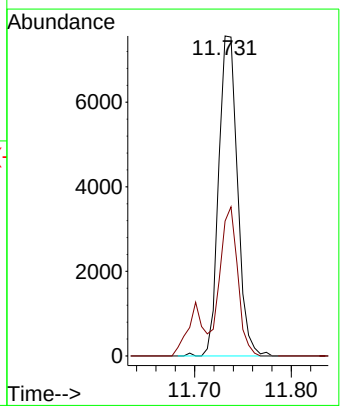
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

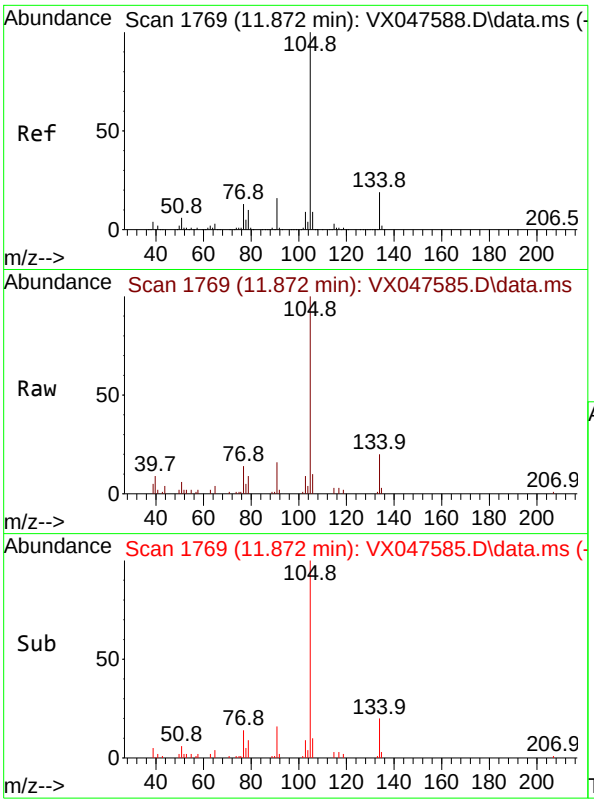


#84
1,2,4-Trimethylbenzene
Concen: 0.796 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 10187

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1

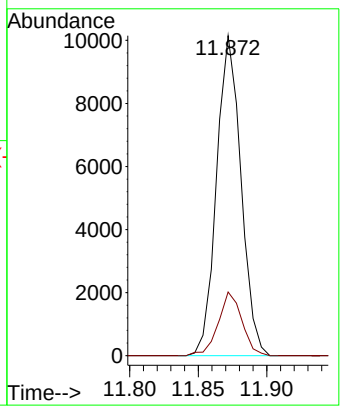




#85
sec-Butylbenzene
Concen: 0.819 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 1256

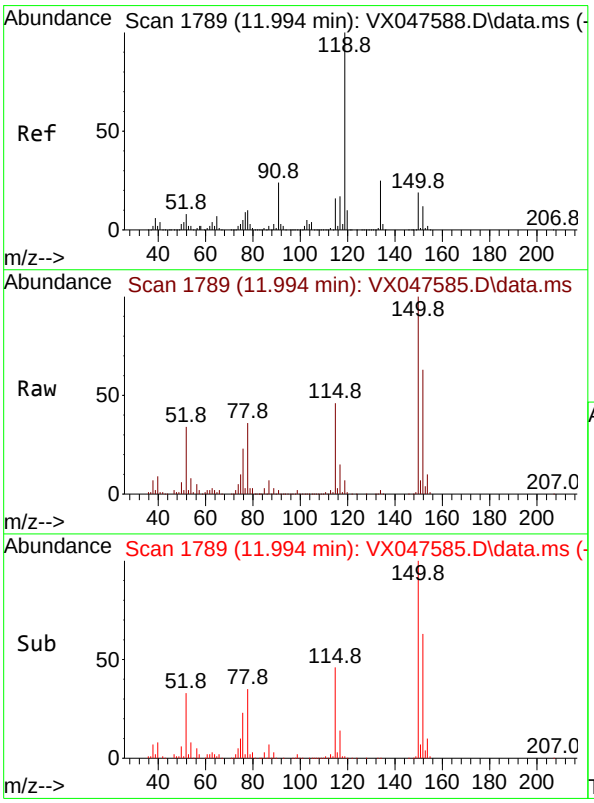
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

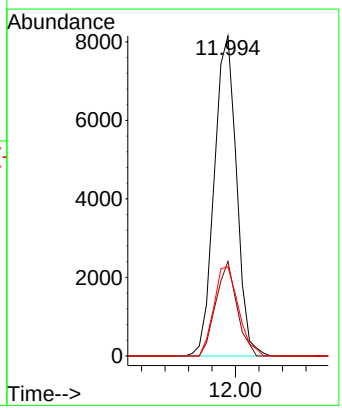
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

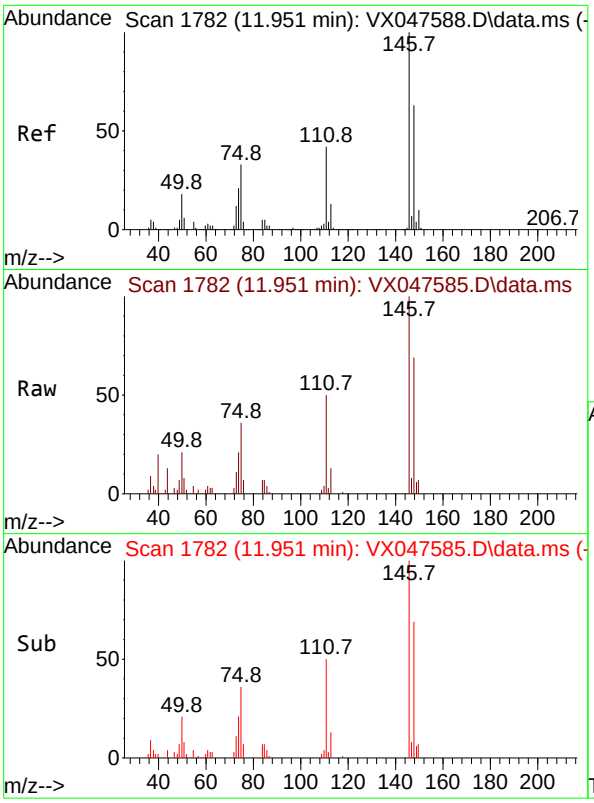


#86
p-Isopropyltoluene
Concen: 0.827 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 10744

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.6	37.8
91	30.8	12.6	37.6

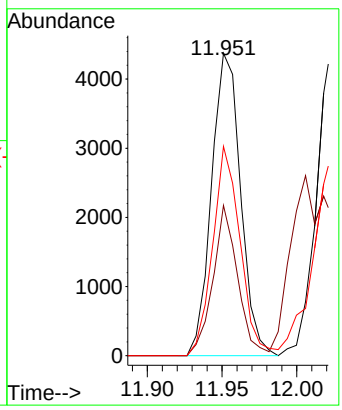




#87
1,3-Dichlorobenzene
Concen: 0.841 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 590

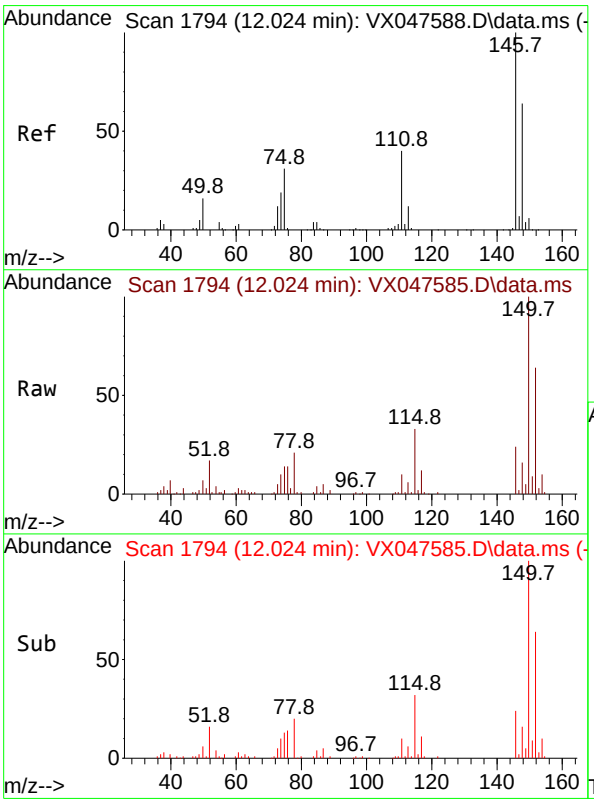
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	65.5	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

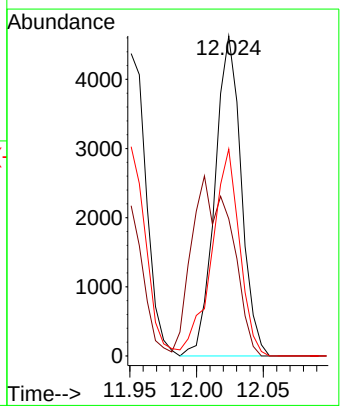
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

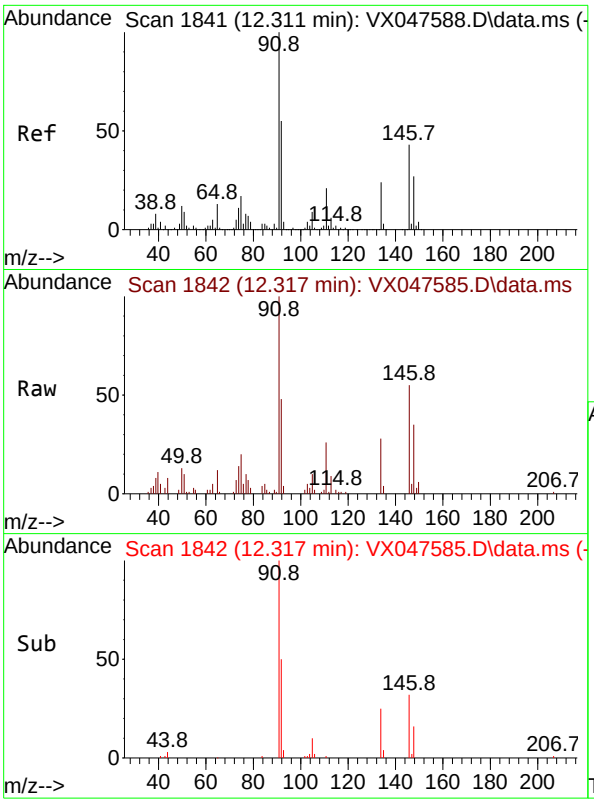


#88
1,4-Dichlorobenzene
Concen: 0.880 ug/l m
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 6341

Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.8	62.4
148	61.1	31.7	95.1

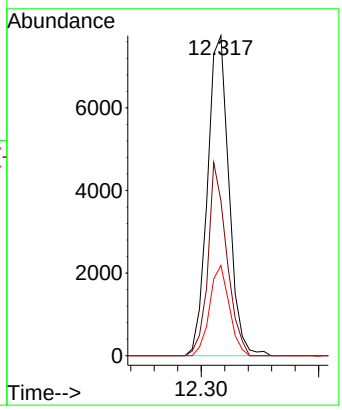




#89
n-Butylbenzene
Concen: 0.816 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 981

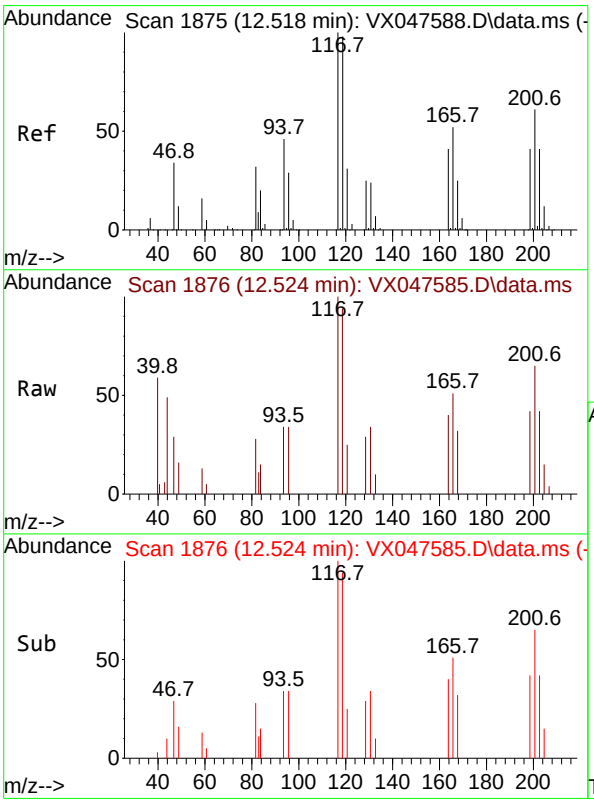
Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.6	82.7
134	25.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

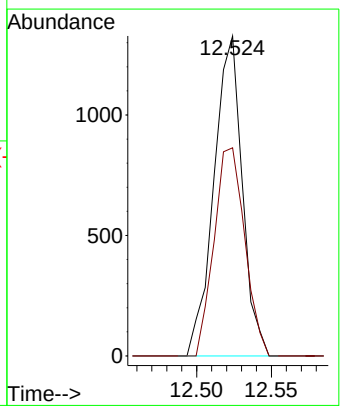
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

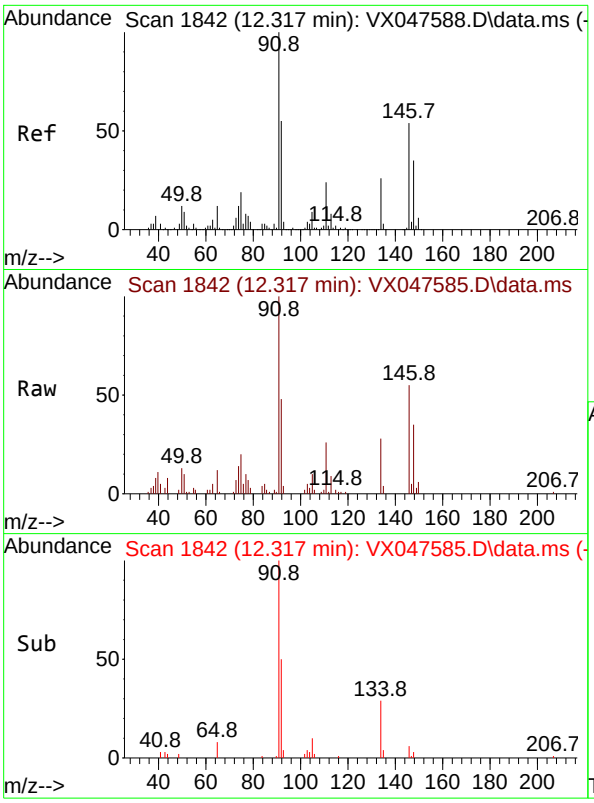


#90
Hexachloroethane
Concen: 0.768 ug/l
RT: 12.524 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 1752

Ion	Ratio	Lower	Upper
117	100		
201	70.4	34.2	102.5

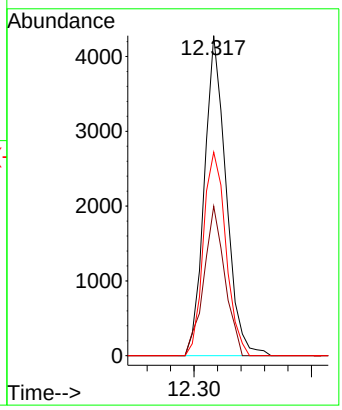




#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 549

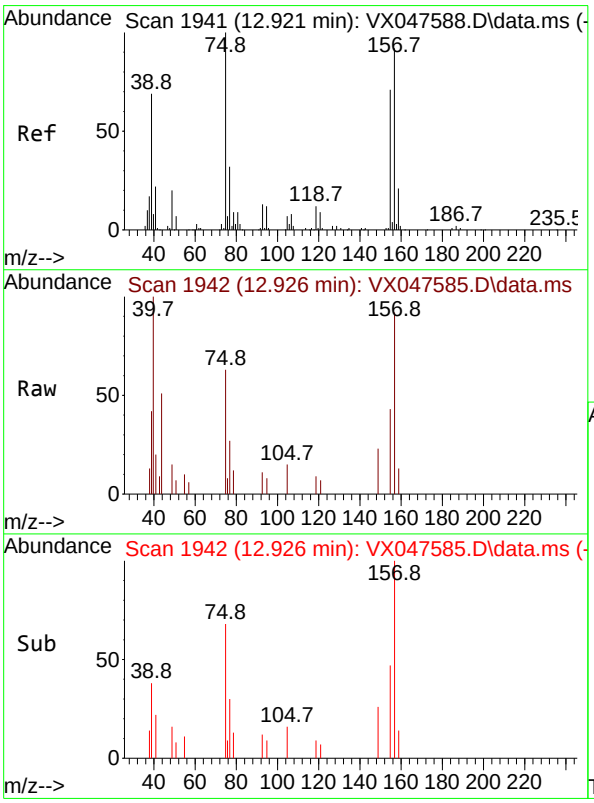
Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.2	66.6
148	65.8	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

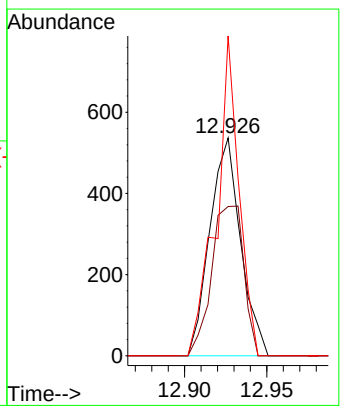
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

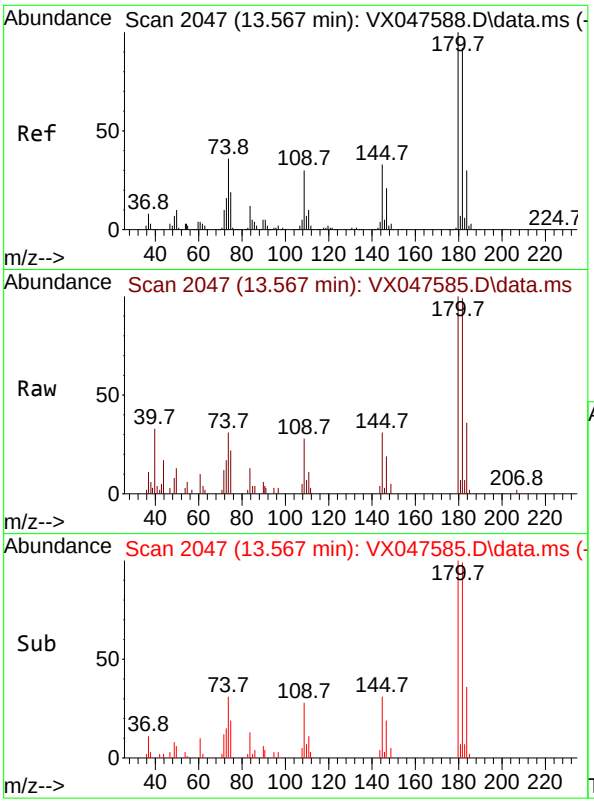


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.742 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 698

Ion	Ratio	Lower	Upper
75	100		
155	72.1	37.7	113.1
157	108.7	49.8	149.4

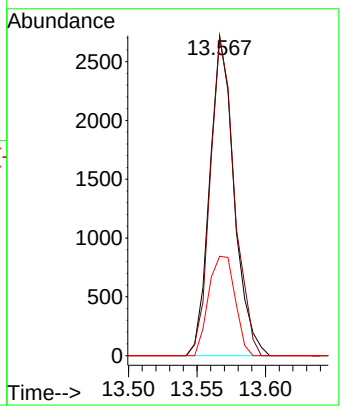




#93
1,2,4-Trichlorobenzene
Concen: 0.772 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 335

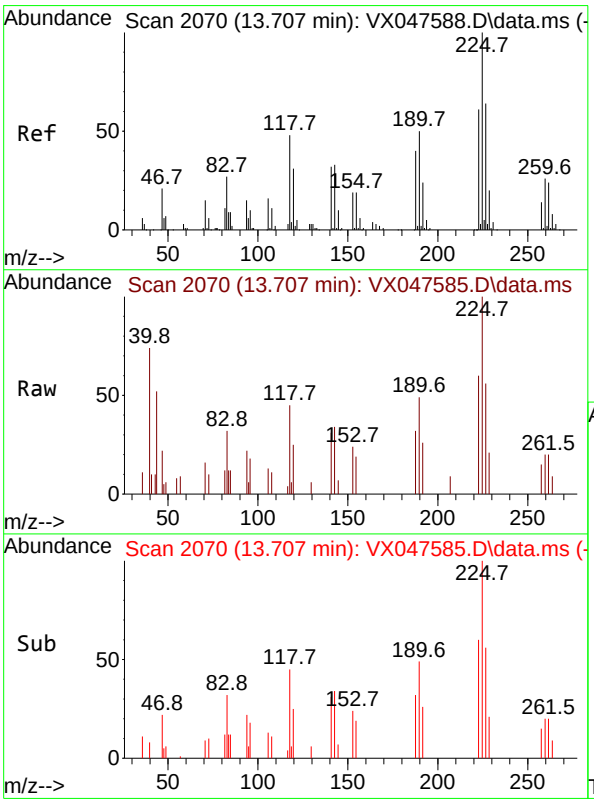
Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.6	139.8
145	33.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

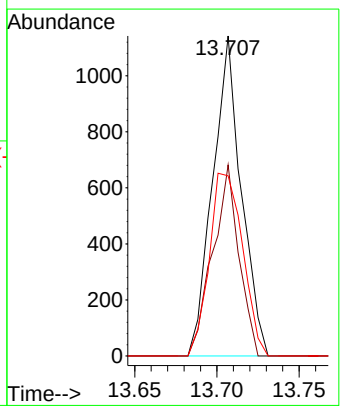
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

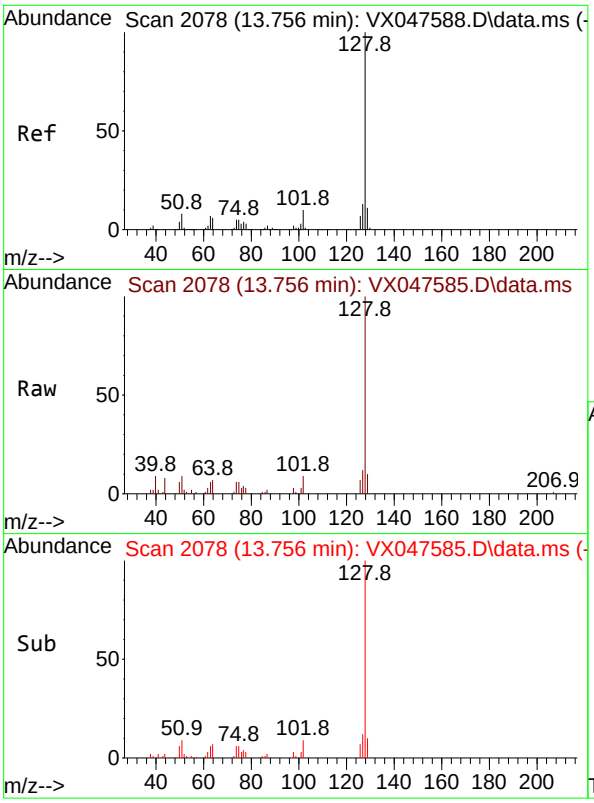


#94
Hexachlorobutadiene
Concen: 0.933 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:225 Resp: 1378

Ion	Ratio	Lower	Upper
225	100		
223	54.8	31.7	95.1
227	66.7	32.0	96.0

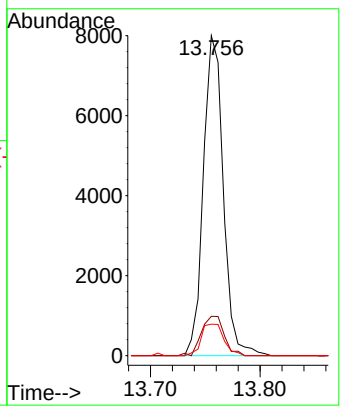




#95
Naphthalene
Concen: 0.763 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:128 Resp: 1011

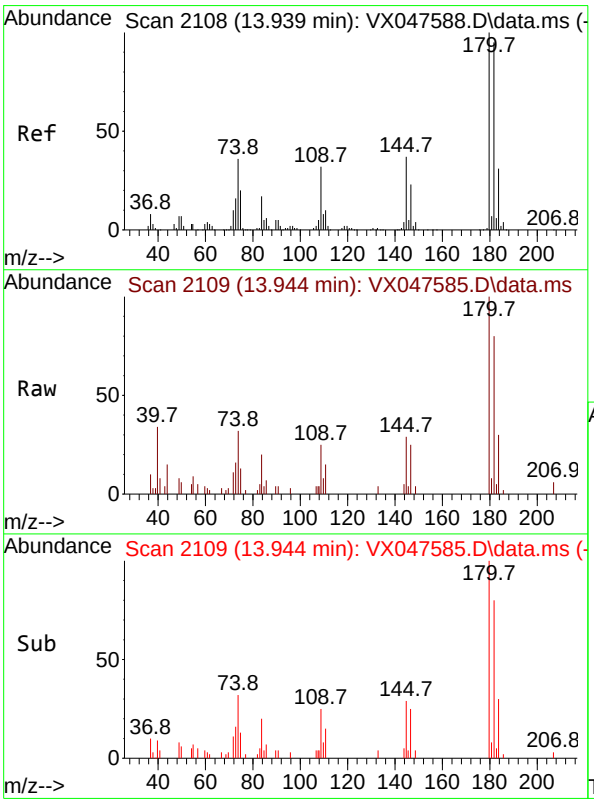
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.2	15.2
129	11.2	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

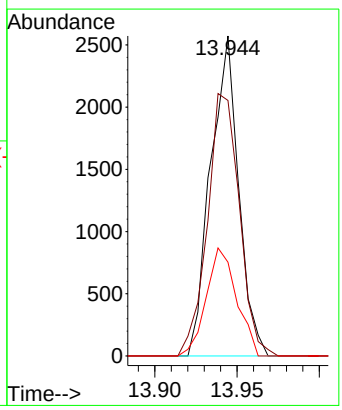
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.752 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 3043

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.6	142.8
145	36.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	11.100%#		
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.620%#		
50) Toluene-d8	8.635	98	43926	5.332	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.860%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l	93
3) Chloromethane	1.301	50	14854	5.502	ug/l	99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l	97
5) Bromomethane	1.618	94	9780	5.836	ug/l	87
6) Chloroethane	1.697	64	8926	5.053	ug/l	96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l	100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l	98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l	98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l	99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l	91
13) Acrolein	2.239	56	7080	21.847	ug/l	95
14) Allyl chloride	2.666	41	25135	5.168	ug/l	99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l	99
16) Acetone	2.374	43	41297	30.079	ug/l	97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l	100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l	98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l	97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l	98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l	97
25) 2-Butanone	4.544	43	46651	27.240	ug/l	92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l	98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l	95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l	92
30) Chloroform	5.080	83	27054	5.344	ug/l	99
31) Cyclohexane	5.458	56	23032	5.520	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l	96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l	98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l #	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l	96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l	97
40) Benzene	6.019	78	55996	5.299	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883	ug/l		95
42) 1,2-Dichloroethane	6.074	62	21117	5.252	ug/l		99
43) Isopropyl Acetate	6.324	43	31304	5.124	ug/l		99
44) Trichloroethene	7.111	130	13576	5.314	ug/l		97
45) 1,2-Dichloropropane	7.415	63	14305	5.287	ug/l		99
46) Dibromomethane	7.568	93	10133	5.146	ug/l		99
47) Bromodichloromethane	7.806	83	21270	5.235	ug/l		99
48) Methyl methacrylate	7.677	41	14959	4.915	ug/l		99
49) 1,4-Dioxane	7.653	88	3017	98.096	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828	ug/l		100
52) Toluene	8.702	92	34314	5.271	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034	ug/l		97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166	ug/l		91
56) Ethyl methacrylate	9.104	69	19980	5.068	ug/l		97
57) 1,3-Dichloropropane	9.293	76	22989	5.331	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899	ug/l		98
59) 2-Hexanone	9.415	43	66356	27.275	ug/l		99
60) Dibromochloromethane	9.506	129	14705	5.084	ug/l		95
61) 1,2-Dibromoethane	9.592	107	13461	5.264	ug/l		98
64) Tetrachloroethene	9.256	164	11228	5.428	ug/l		97
65) Chlorobenzene	10.061	112	37507	5.203	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149	ug/l		99
67) Ethyl Benzene	10.177	91	65908	5.299	ug/l		100
68) m/p-Xylenes	10.287	106	49132	10.613	ug/l		99
69) o-Xylene	10.628	106	23300	5.204	ug/l		98
70) Styrene	10.640	104	40872	5.210	ug/l		99
71) Bromoform	10.781	173	9298	5.006	ug/l	#	97
73) Isopropylbenzene	10.945	105	61029	5.139	ug/l		100
74) N-amyl acetate	10.823	43	26969	4.980	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138	ug/l		98
76) 1,2,3-Trichloropropane	11.220	75	15982m	4.927	ug/l		
77) Bromobenzene	11.183	156	15066	5.150	ug/l		99
78) n-propylbenzene	11.287	91	72900	5.192	ug/l		100
79) 2-Chlorotoluene	11.348	91	44663	5.194	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364	ug/l		91
82) 4-Chlorotoluene	11.439	91	52294	5.149	ug/l		100
83) tert-Butylbenzene	11.695	119	50350	5.041	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214	ug/l		100
85) sec-Butylbenzene	11.872	105	62507	5.268	ug/l		99
86) p-Isopropyltoluene	11.994	119	52674	5.244	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294	ug/l		93
89) n-Butylbenzene	12.317	91	47953	5.159	ug/l		99
90) Hexachloroethane	12.518	117	8830	5.007	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690	ug/l		99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103	ug/l		98
94) Hexachlorobutadiene	13.707	225	5894	5.158	ug/l		99
95) Naphthalene	13.756	128	49257	4.808	ug/l		99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

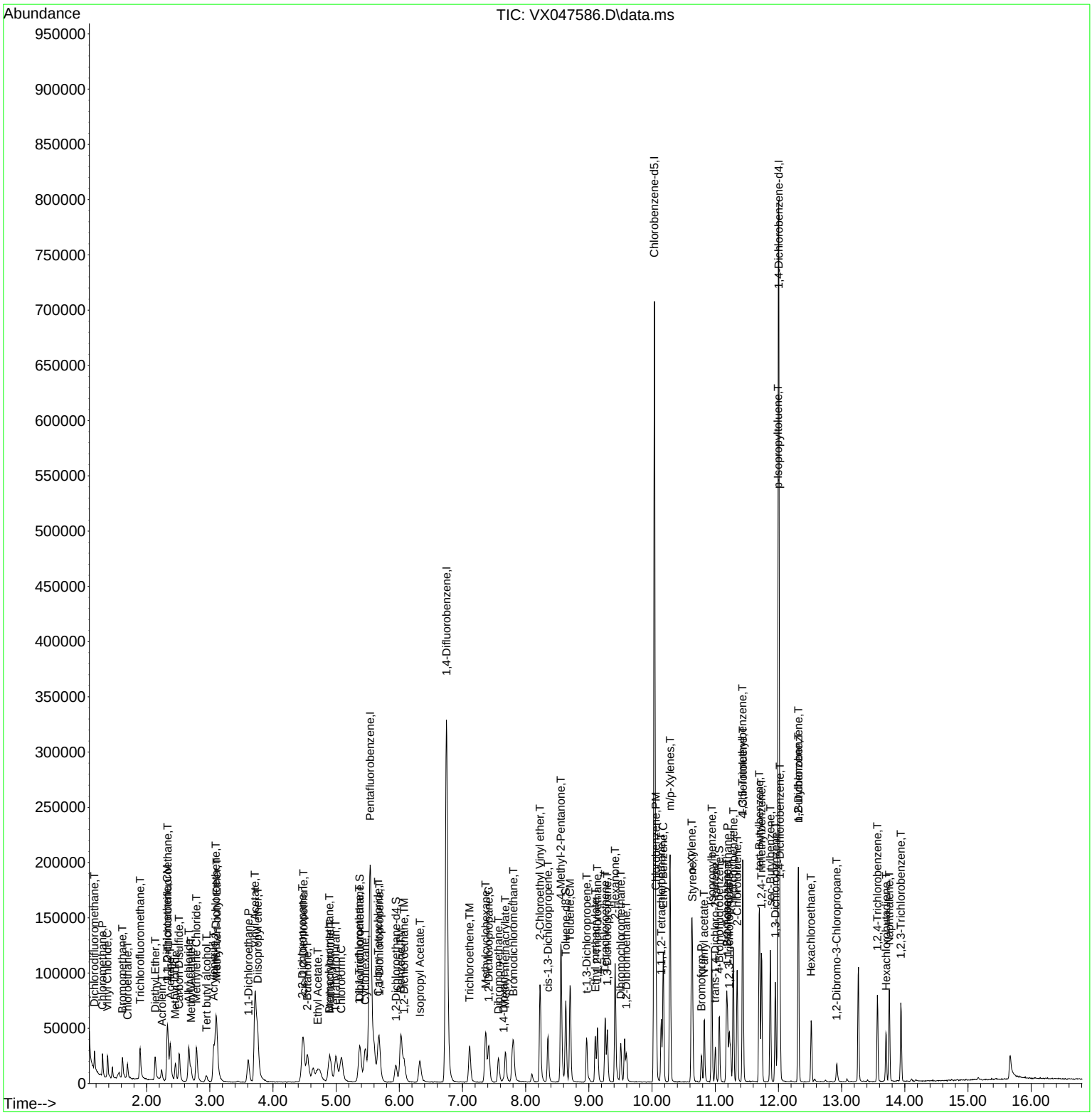
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

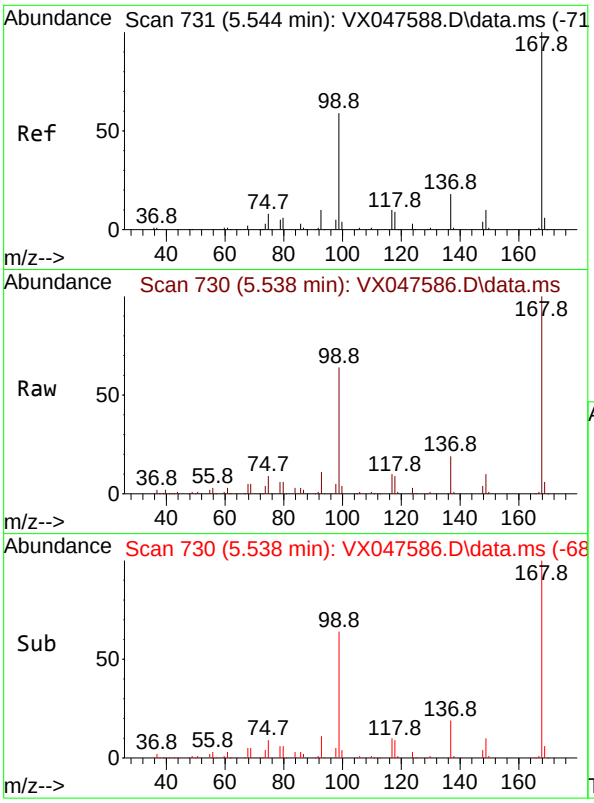
Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

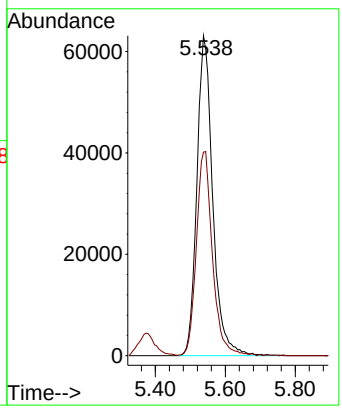




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:168 Resp: 19837

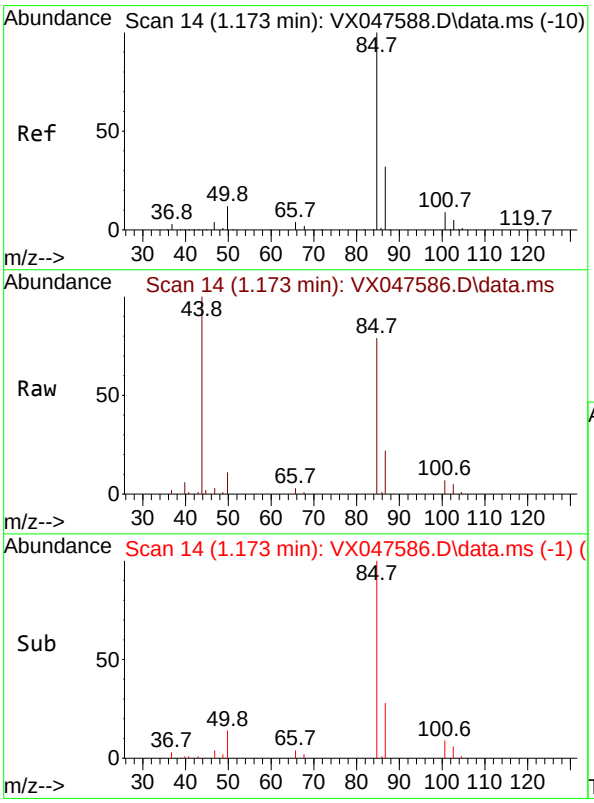
Ion	Ratio	Lower	Upper
168	100		
99	63.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

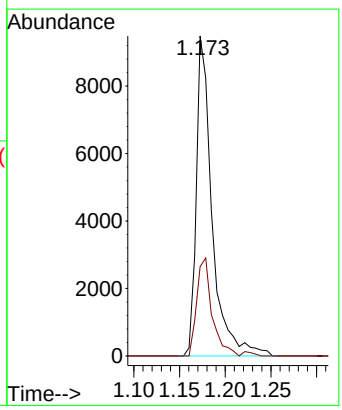
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

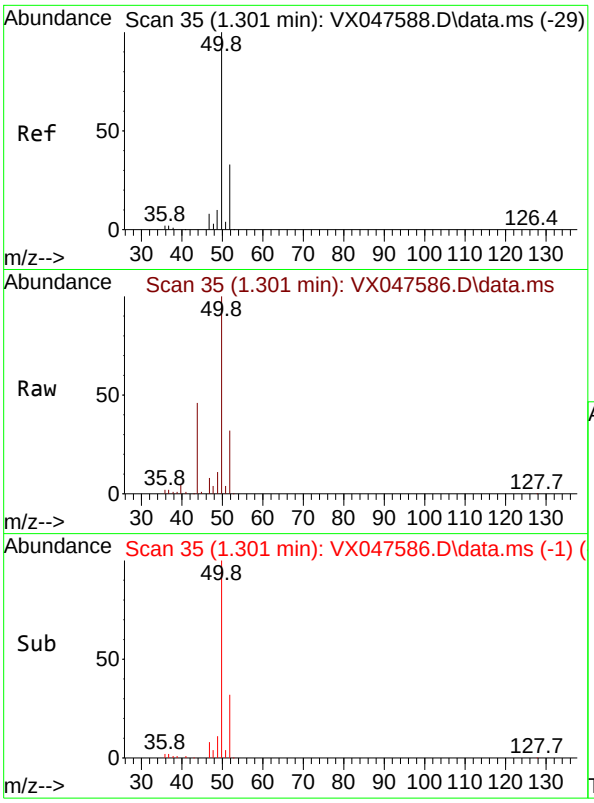


#2
Dichlorodifluoromethane
Concen: 5.551 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 85 Resp: 11403

Ion	Ratio	Lower	Upper
85	100		
87	27.9	15.8	47.3

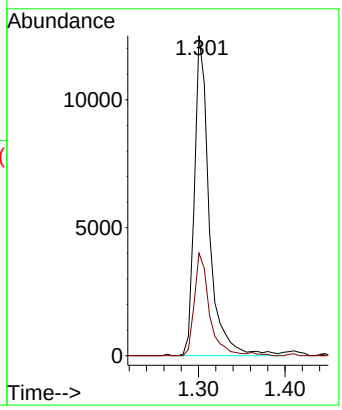




#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 50 Resp: 1485

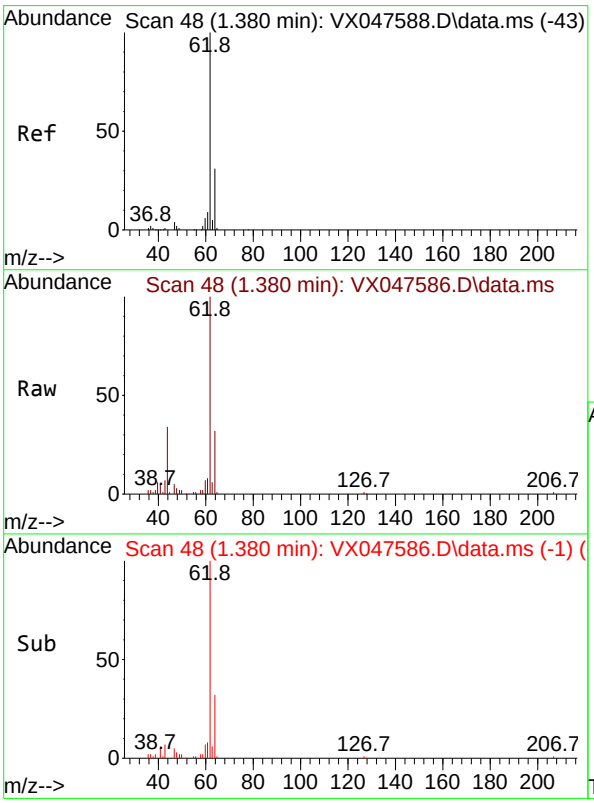
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

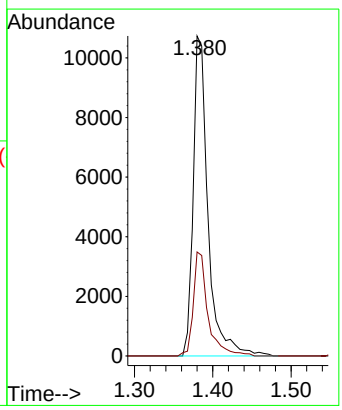
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

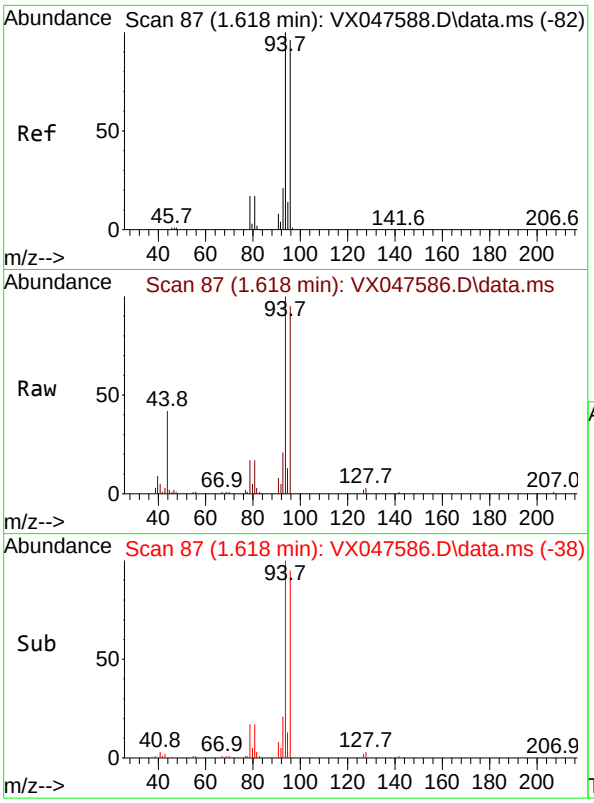


#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 14147

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3

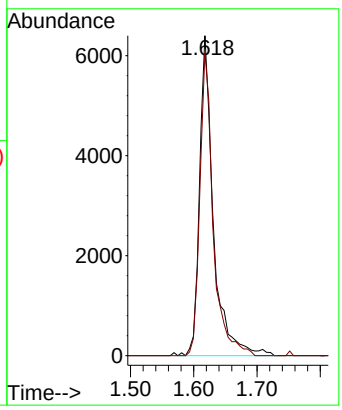




#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 94 Resp: 978

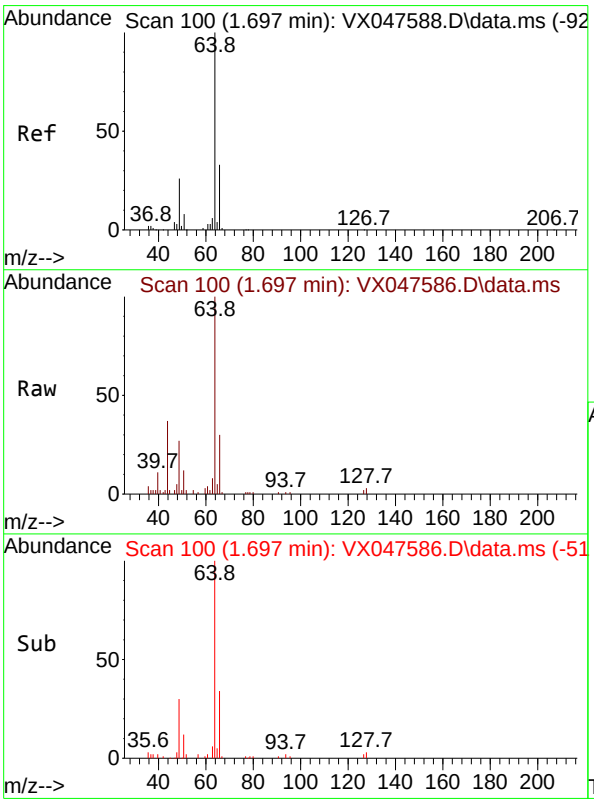
Ion	Ratio	Lower	Upper
94	100		
96	83.6	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

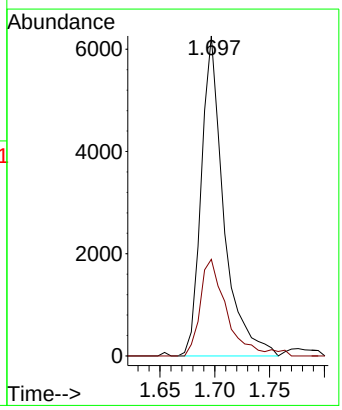
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

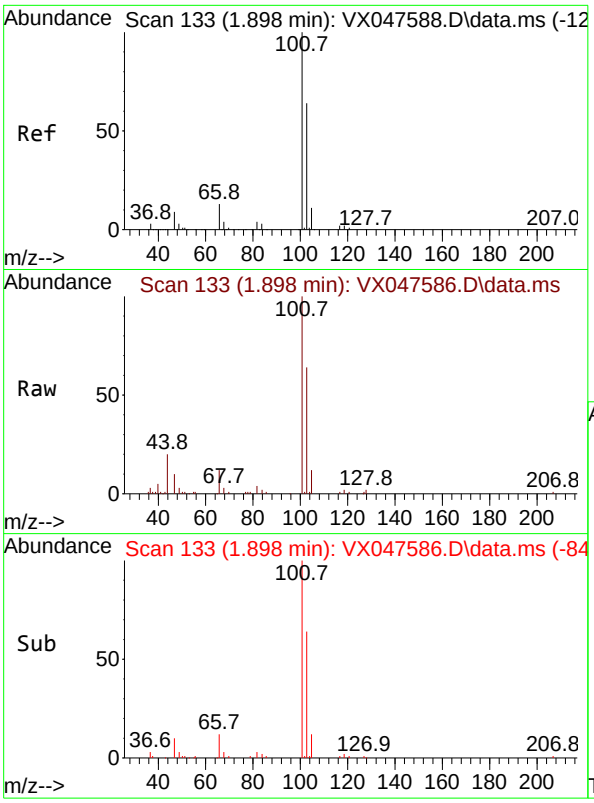


#6
Chloroethane
Concen: 5.053 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 64 Resp: 8926

Ion	Ratio	Lower	Upper
64	100		
66	30.2	26.1	39.1

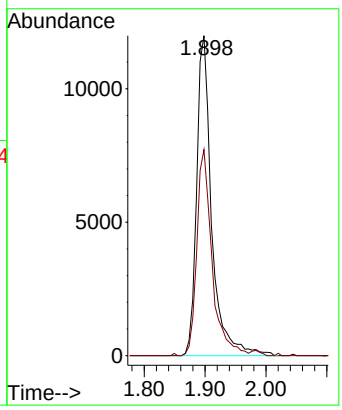




#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:101 Resp: 2049

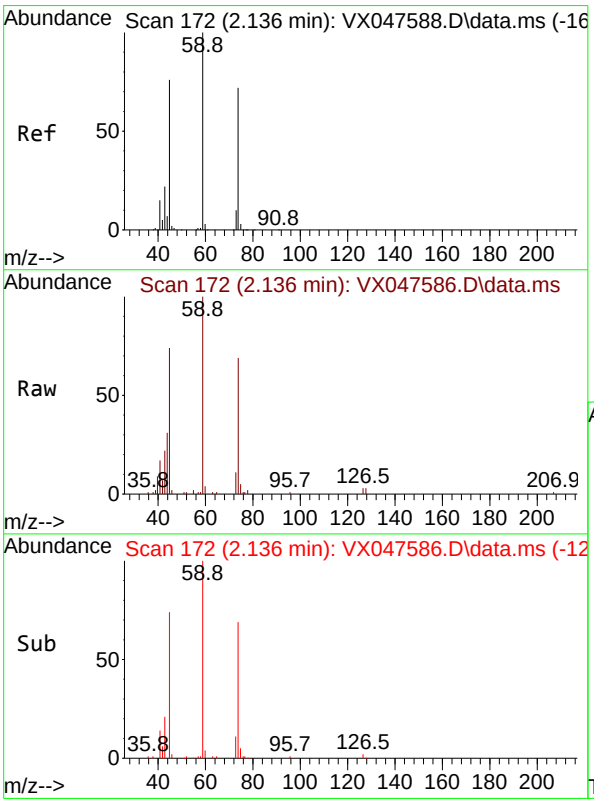
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

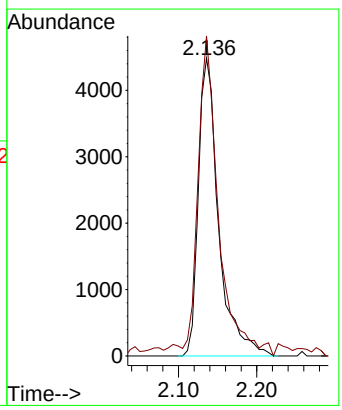
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

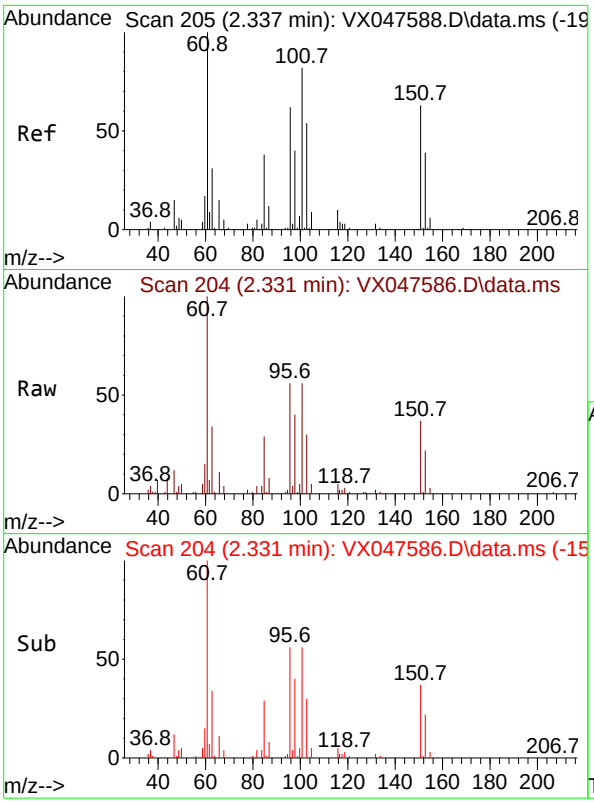


#8
Diethyl Ether
Concen: 5.008 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 74 Resp: 8039

Ion	Ratio	Lower	Upper
74	100		
45	111.7	52.3	156.8

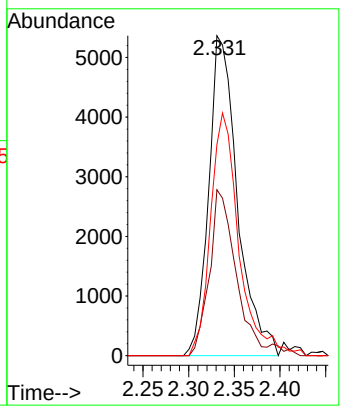




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.112 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:101 Resp: 1172

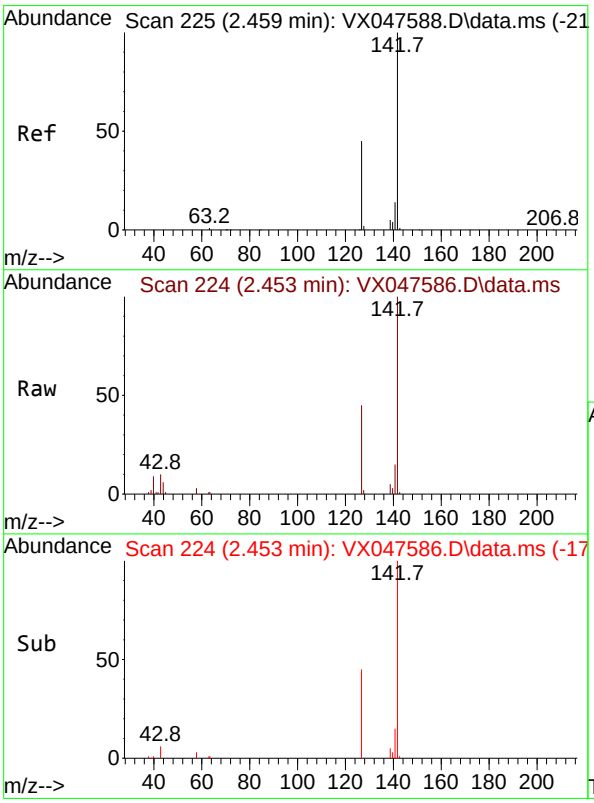
Ion	Ratio	Lower	Upper
101	100		
85	47.5	35.5	53.3
151	75.0	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

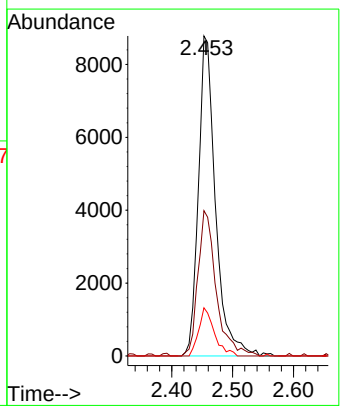
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

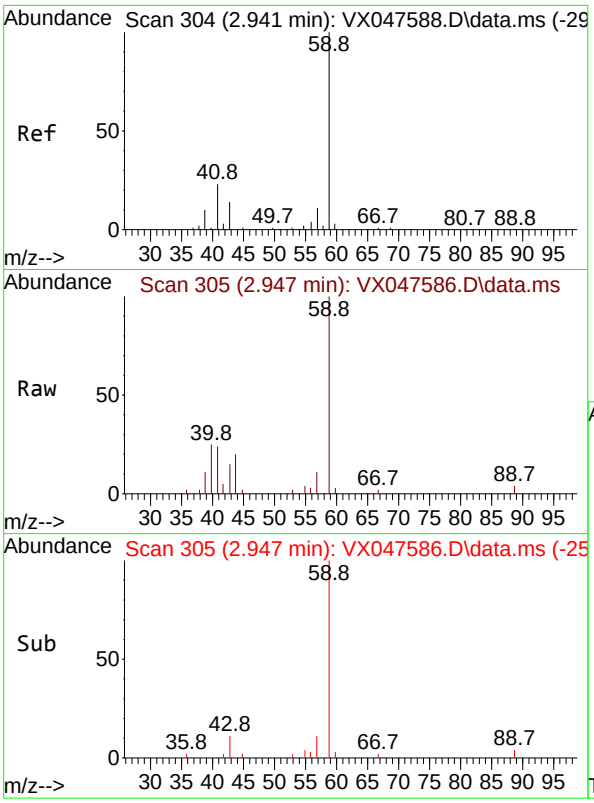


#10
Methyl Iodide
Concen: 4.795 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:142 Resp: 17159

Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.2	55.8
141	13.8	11.4	17.0

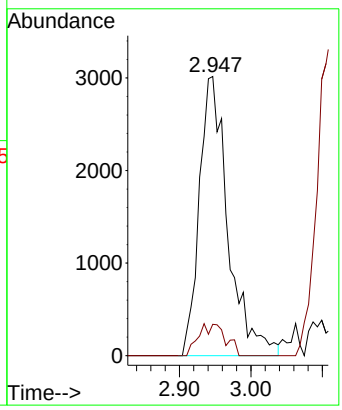




#11
Tert butyl alcohol
Concen: 23.883 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 59 Resp: 839

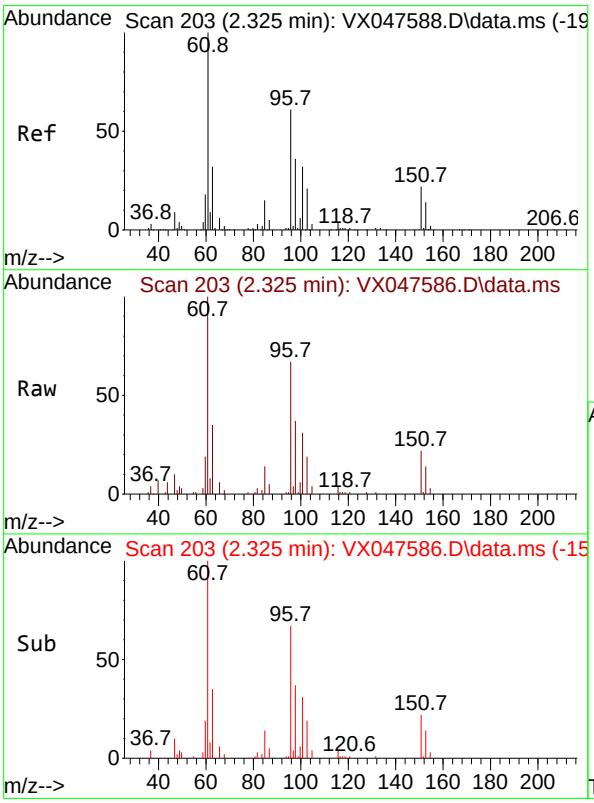
Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

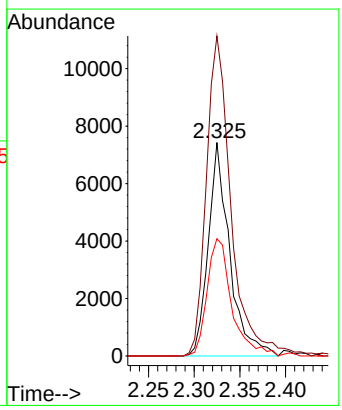
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

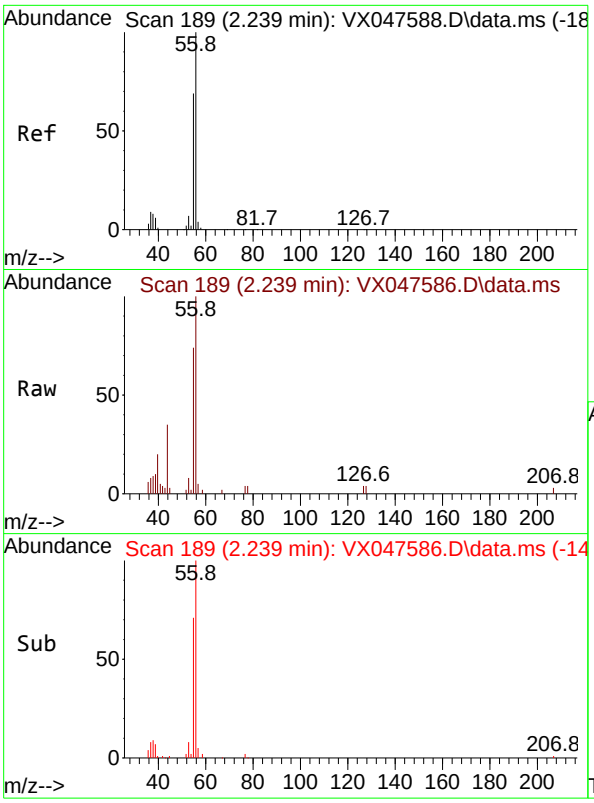


#12
1,1-Dichloroethene
Concen: 5.147 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 12131

Ion	Ratio	Lower	Upper
96	100		
61	149.9	131.0	196.6
98	54.9	47.7	71.5

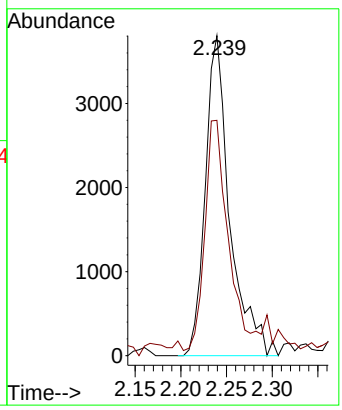




#13
Acrolein
Concen: 21.847 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 56 Resp: 708

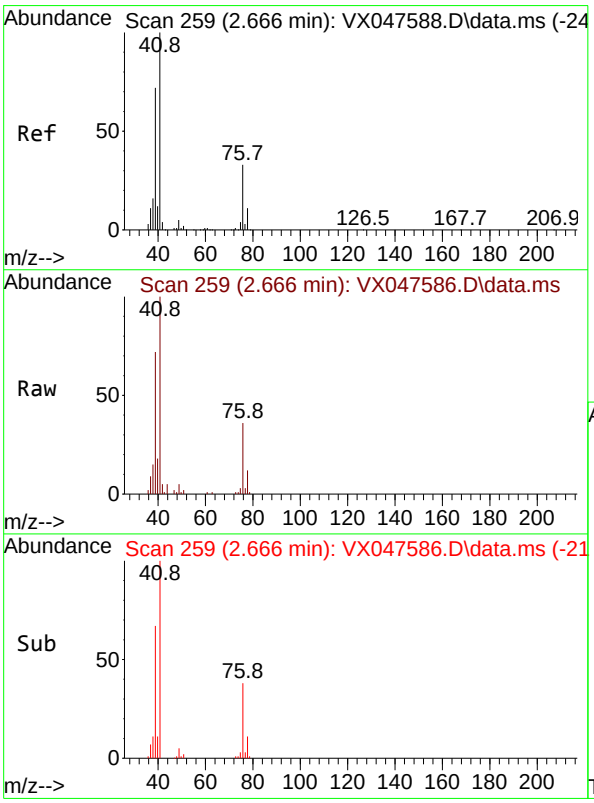
Ion	Ratio	Lower	Upper
56	100		
55	67.1	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

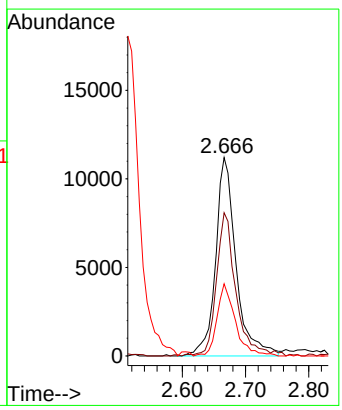
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

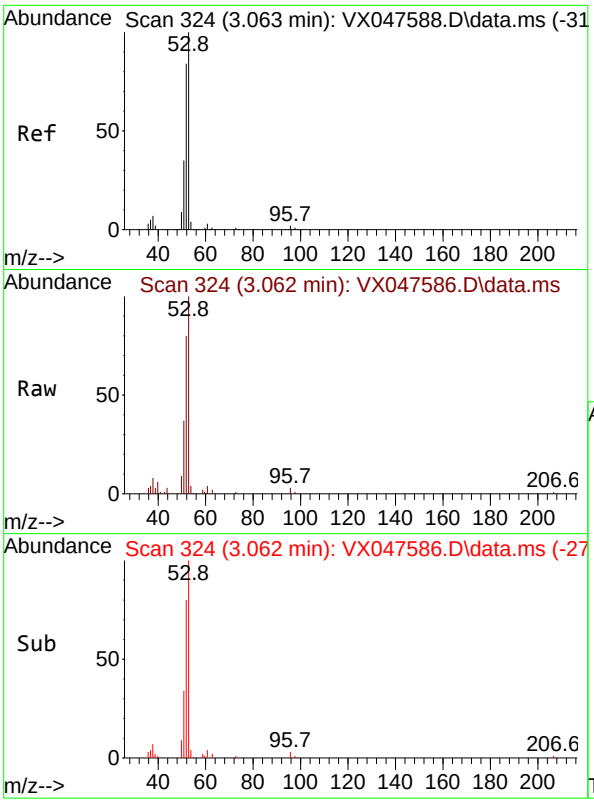


#14
Allyl chloride
Concen: 5.168 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 25135

Ion	Ratio	Lower	Upper
41	100		
39	69.1	54.7	82.1
76	32.4	25.7	38.5

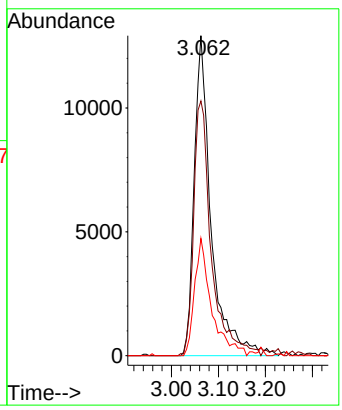




#15
Acrylonitrile
Concen: 25.016 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 53 Resp: 3258

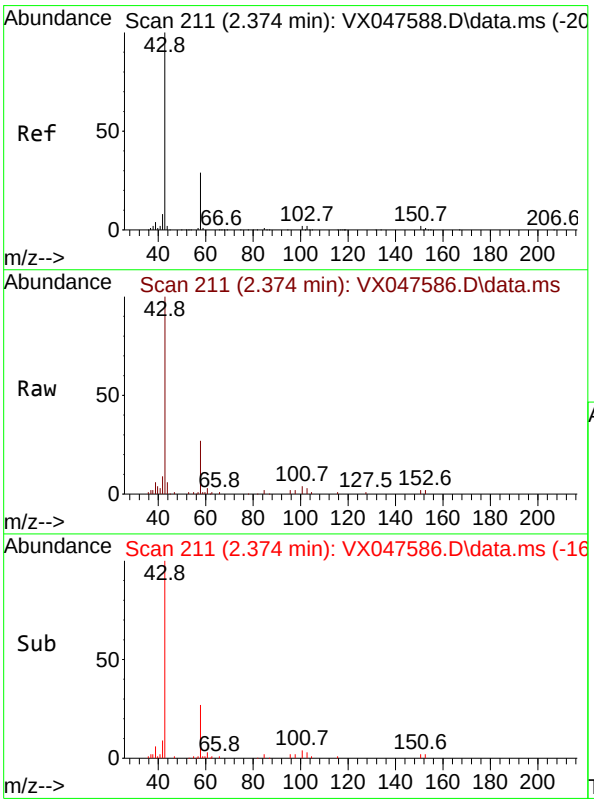
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	36.5	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

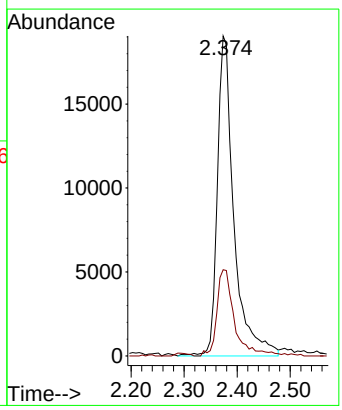
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

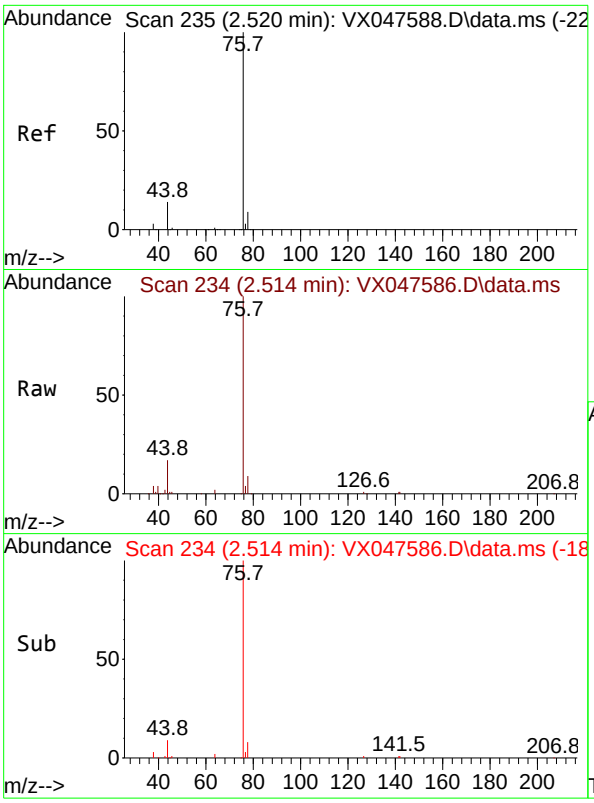


#16
Acetone
Concen: 30.079 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 41297

Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.4	35.0

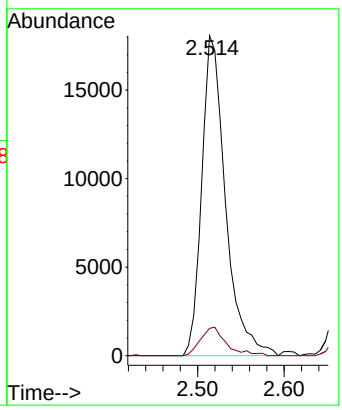




#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 76 Resp: 3442

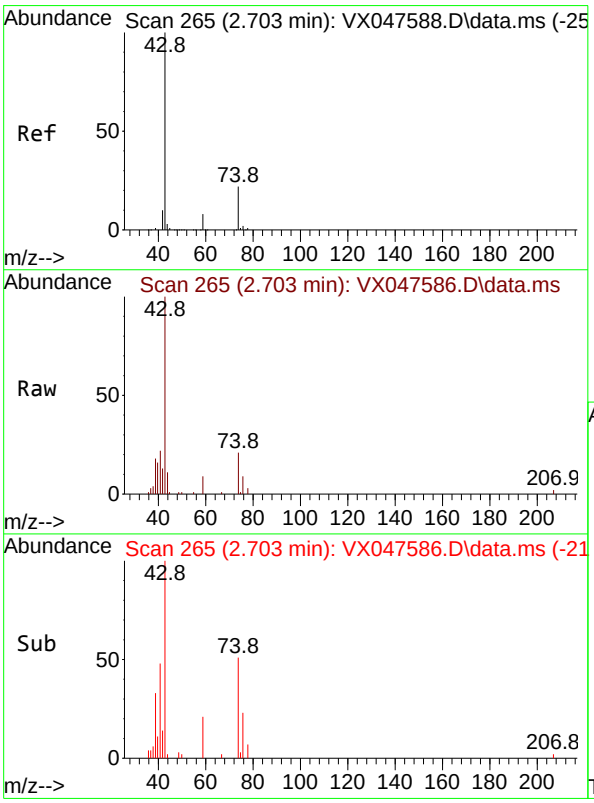
Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

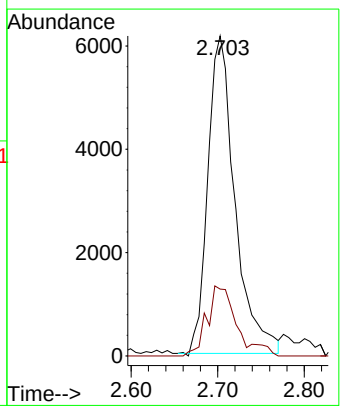
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

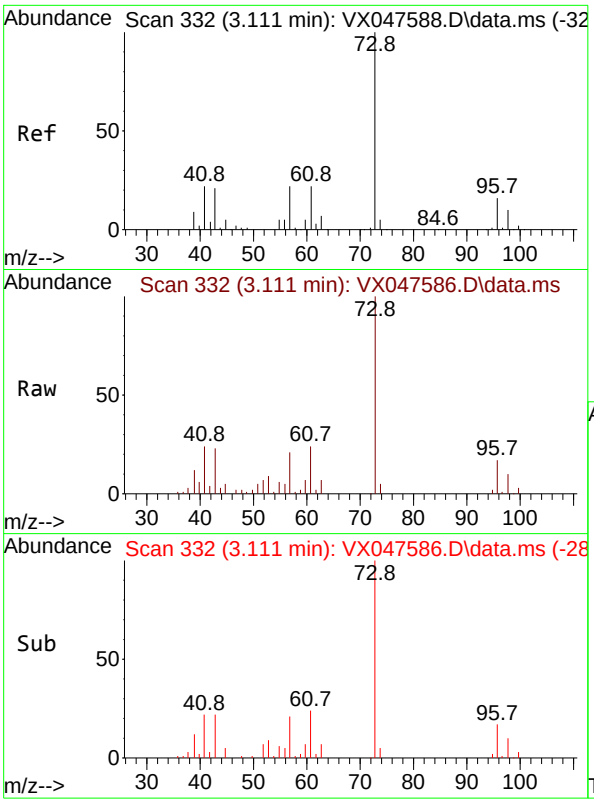


#18
Methyl Acetate
Concen: 4.371 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 13357

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2

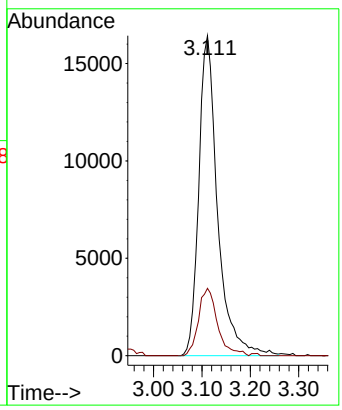




#19
Methyl tert-butyl Ether
Concen: 5.160 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 73 Resp: 4439

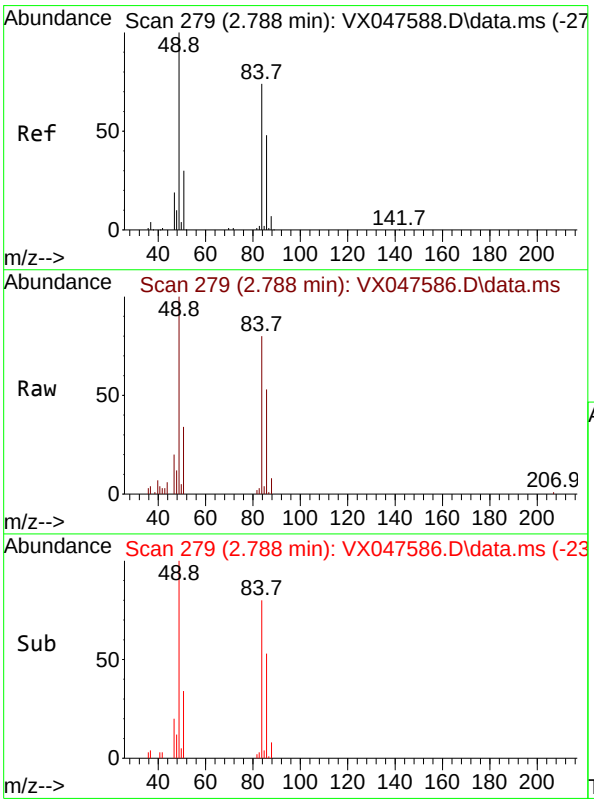
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

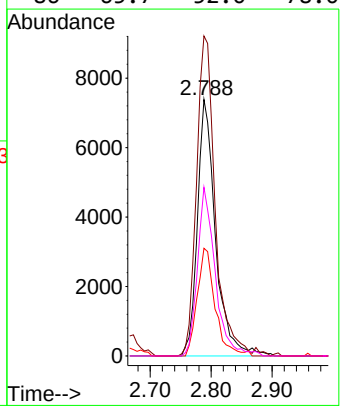
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

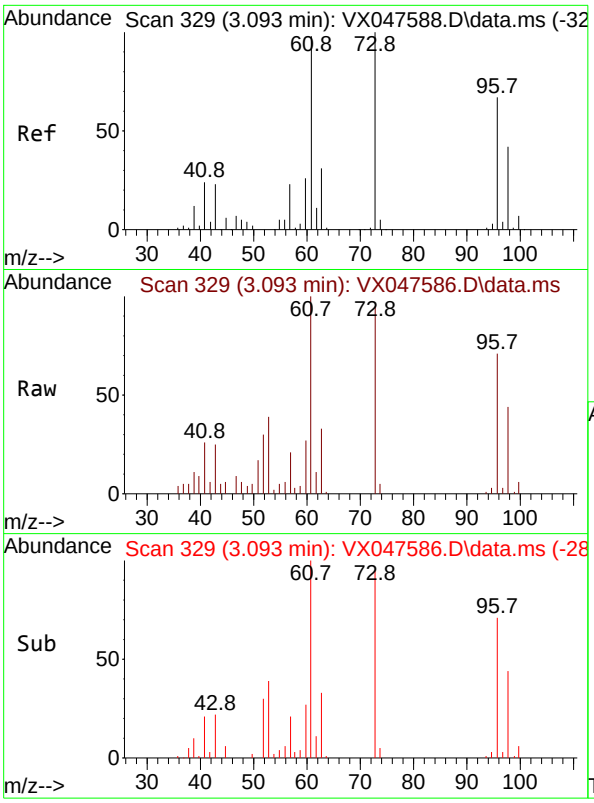


#20
Methylene Chloride
Concen: 5.267 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 84 Resp: 15307

Ion	Ratio	Lower	Upper
84	100		
49	124.7	108.6	162.8
51	42.0	32.6	48.8
86	65.7	52.0	78.0

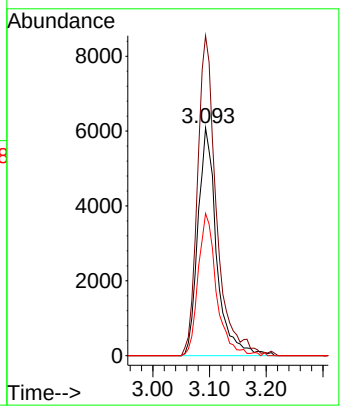




#21
trans-1,2-Dichloroethene
Concen: 5.492 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 1393

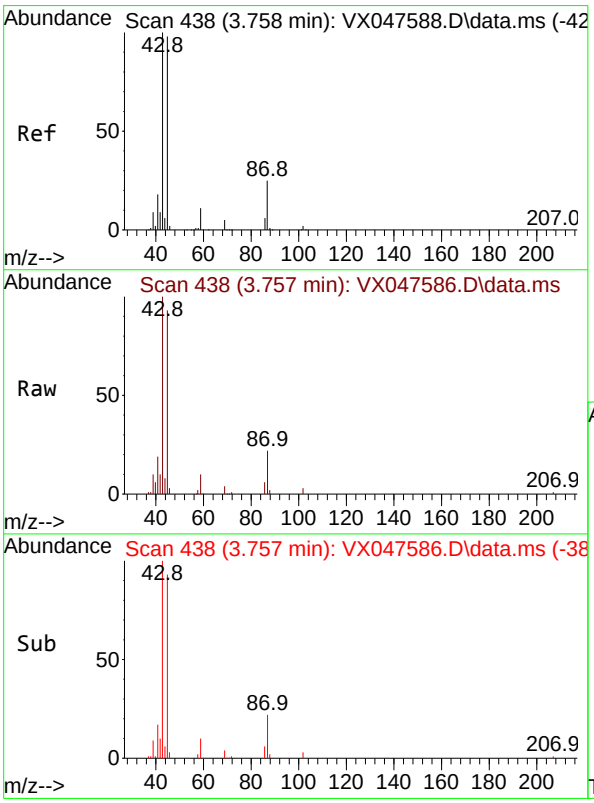
Ion	Ratio	Lower	Upper
96	100		
61	140.4	116.2	174.2
98	62.4	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

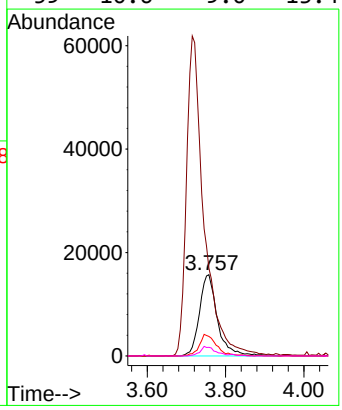
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

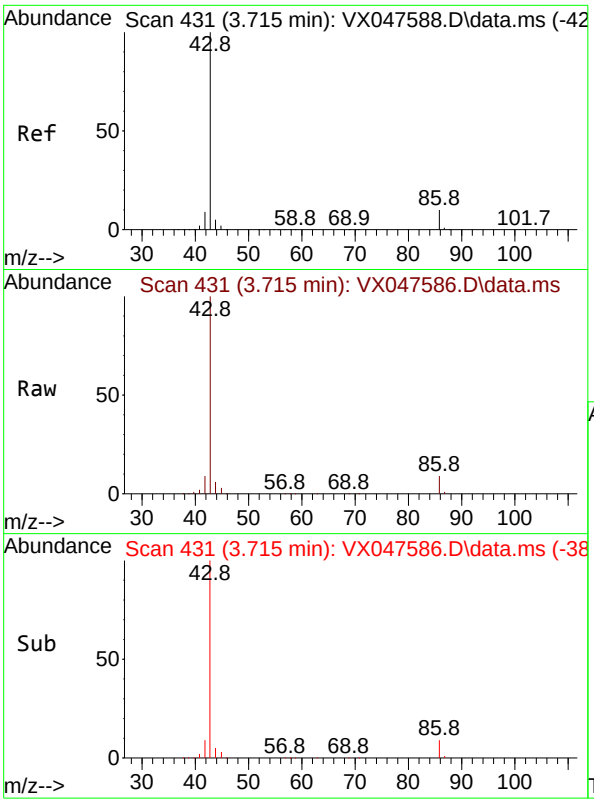


#22
Diisopropyl ether
Concen: 5.327 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 45 Resp: 50213

Ion	Ratio	Lower	Upper
45	100		
43	102.8	81.0	121.4
87	23.3	20.3	30.5
59	10.6	9.0	13.4





#23
Vinyl Acetate
Concen: 25.474 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

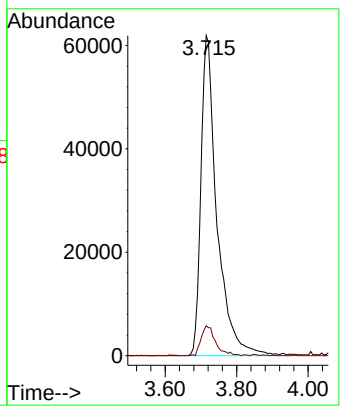
Tgt Ion: 43 Resp: 19217

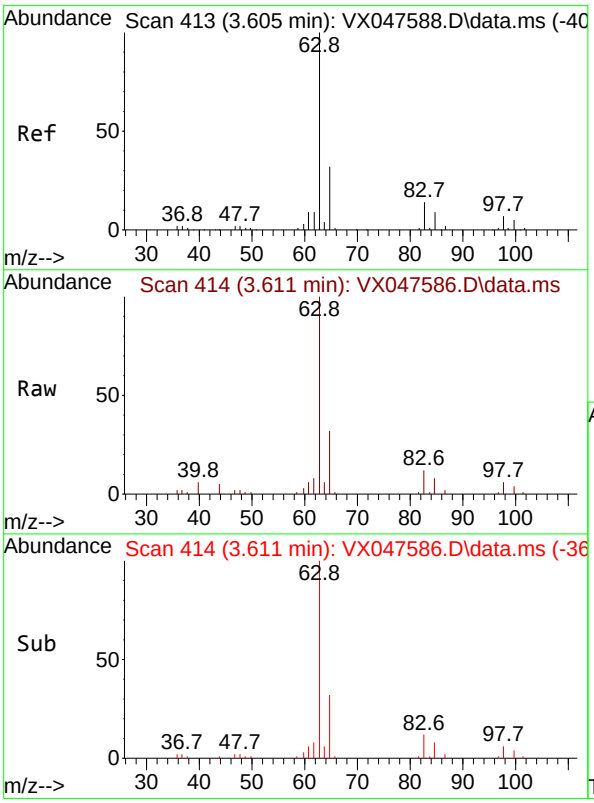
Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

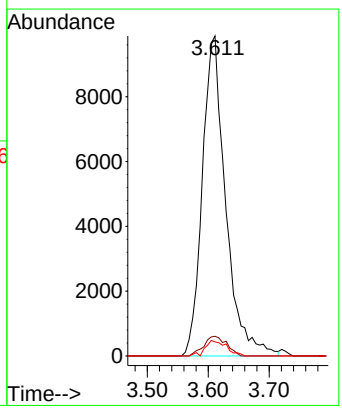


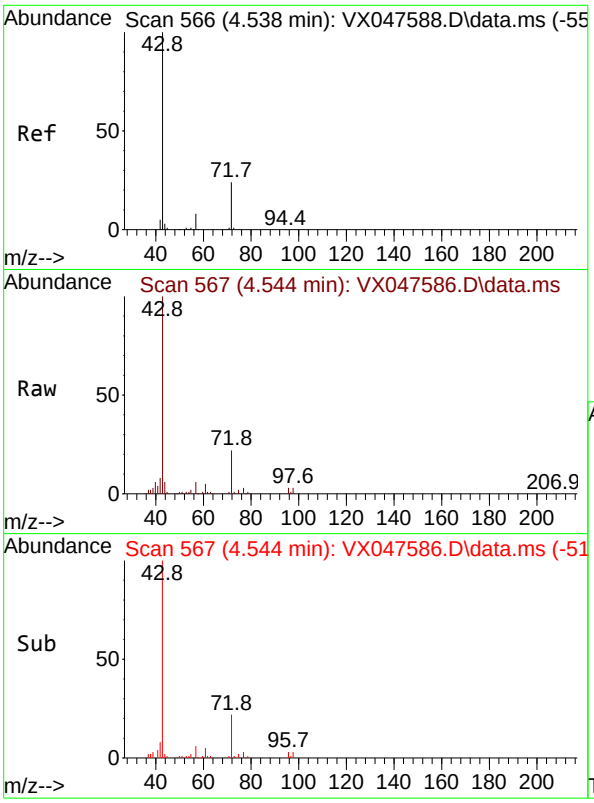


#24
1,1-Dichloroethane
Concen: 5.248 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 26292

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.4	2.3	6.9





#25
2-Butanone
Concen: 27.240 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

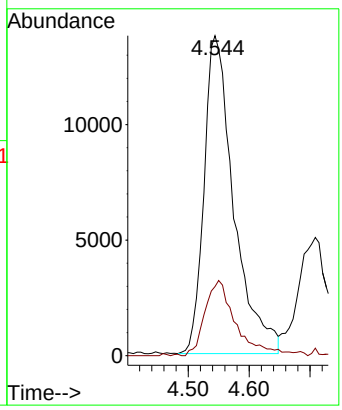
Tgt Ion: 43 Resp: 4665

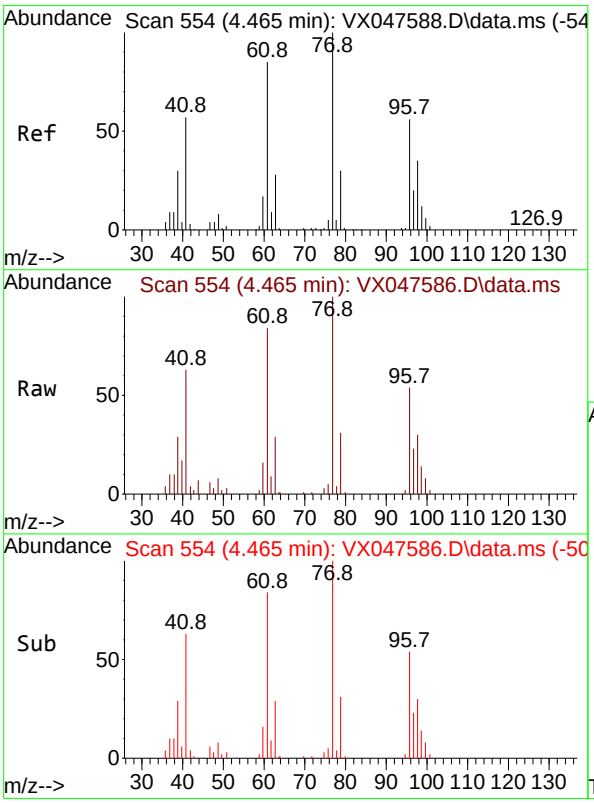
Ion	Ratio	Lower	Upper
43	100		
72	21.3	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

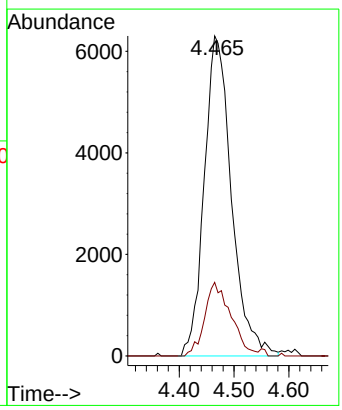


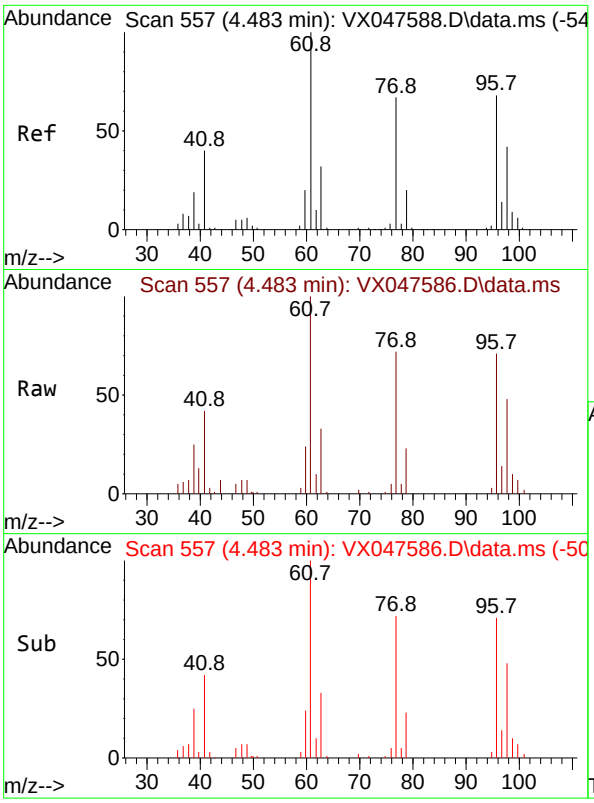


#26
2,2-Dichloropropane
Concen: 5.220 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 77 Resp: 21738

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7

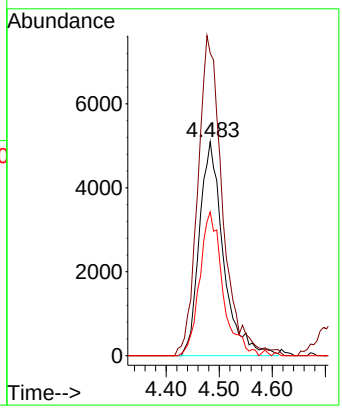




#27
cis-1,2-Dichloroethene
Concen: 5.147 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 1599

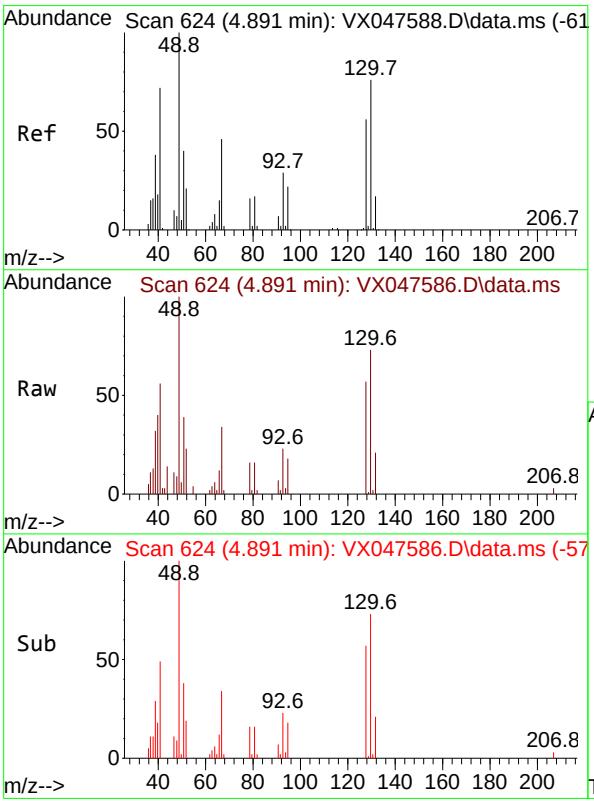
Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	303.2
98	64.8	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

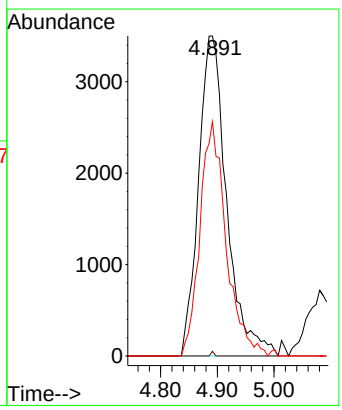
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

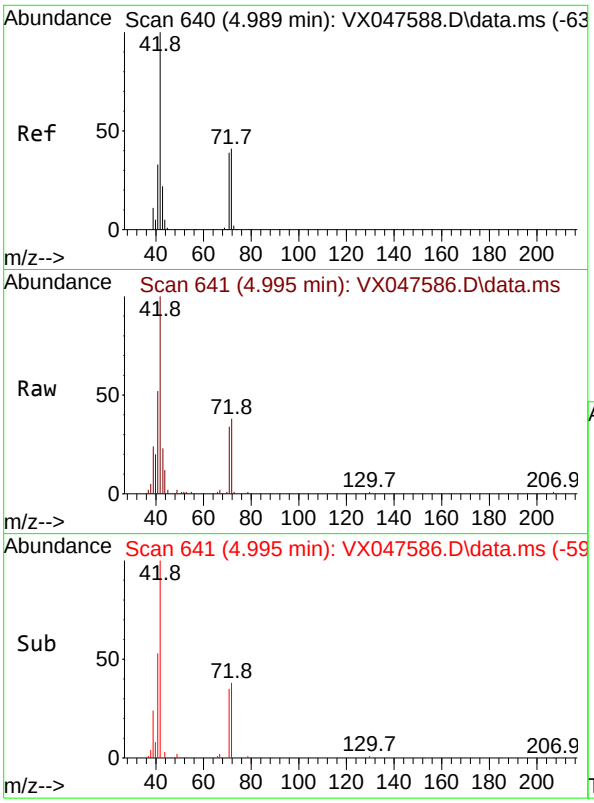


#28
Bromochloromethane
Concen: 5.508 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 49 Resp: 12047

Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	3.2
130	68.0	57.8	86.8





#29
Tetrahydrofuran
Concen: 25.944 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

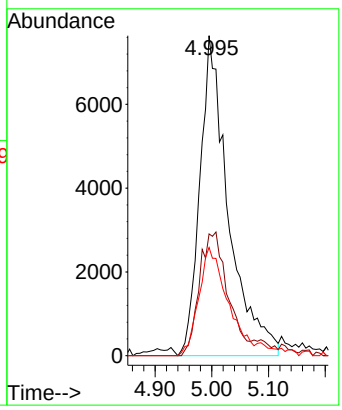
Tgt Ion: 42 Resp: 2672

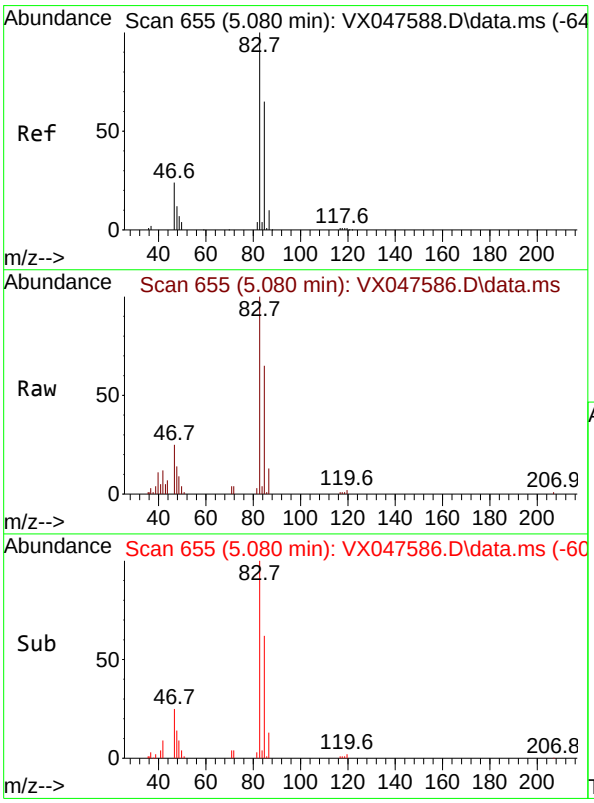
Ion	Ratio	Lower	Upper
42	100		
72	38.7	34.2	51.2
71	34.1	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

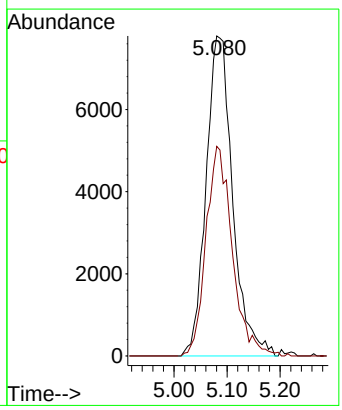


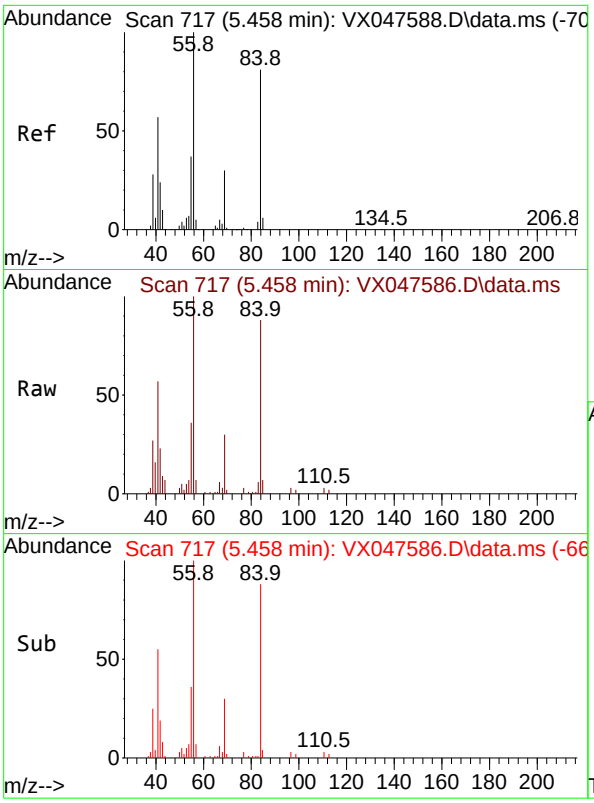


#30
Chloroform
Concen: 5.344 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 27054

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6

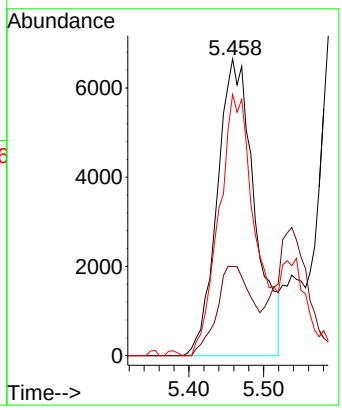




#31
Cyclohexane
Concen: 5.520 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 56 Resp: 2303

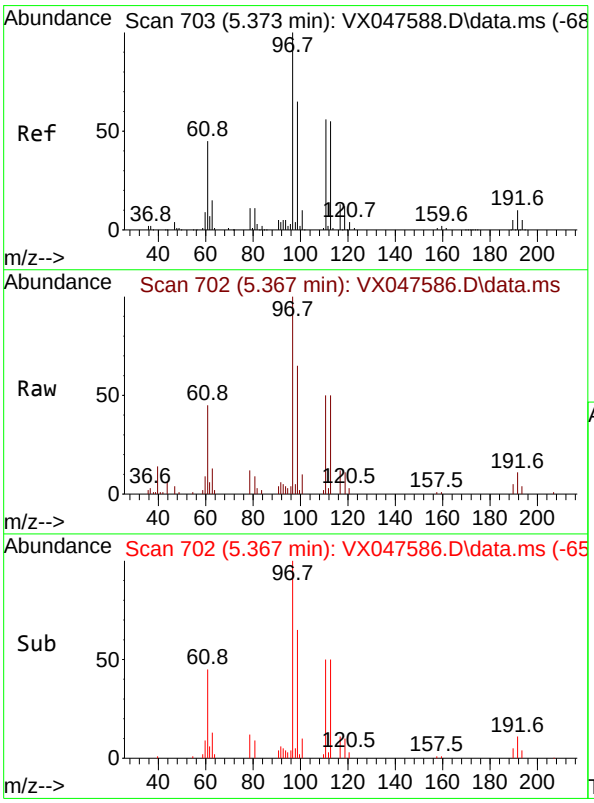
Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.8	35.8
84	87.1	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

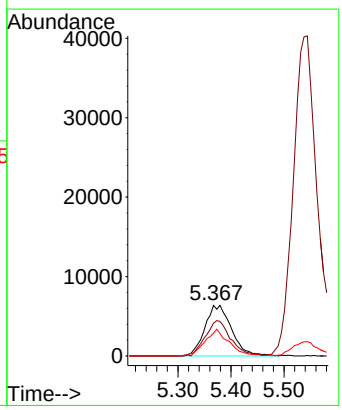
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

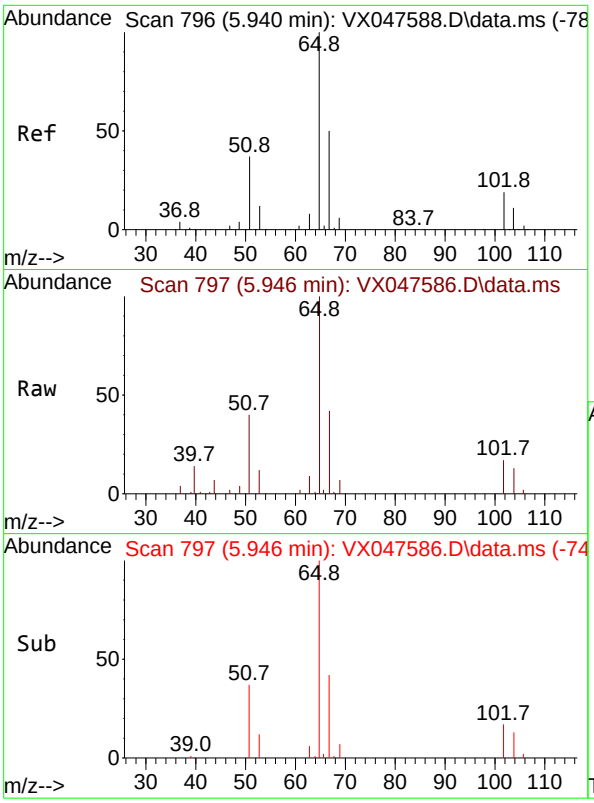


#32
1,1,1-Trichloroethane
Concen: 5.188 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 22279

Ion	Ratio	Lower	Upper
97	100		
99	66.4	50.6	76.0
61	47.4	35.8	53.8

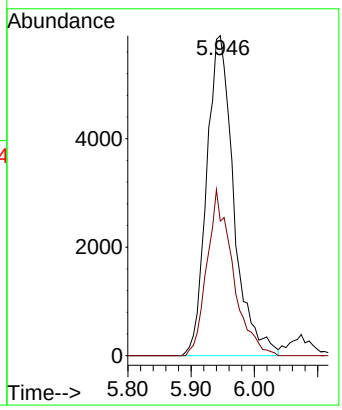




#33
1,2-Dichloroethane-d4
Concen: 5.554 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 65 Resp: 1753

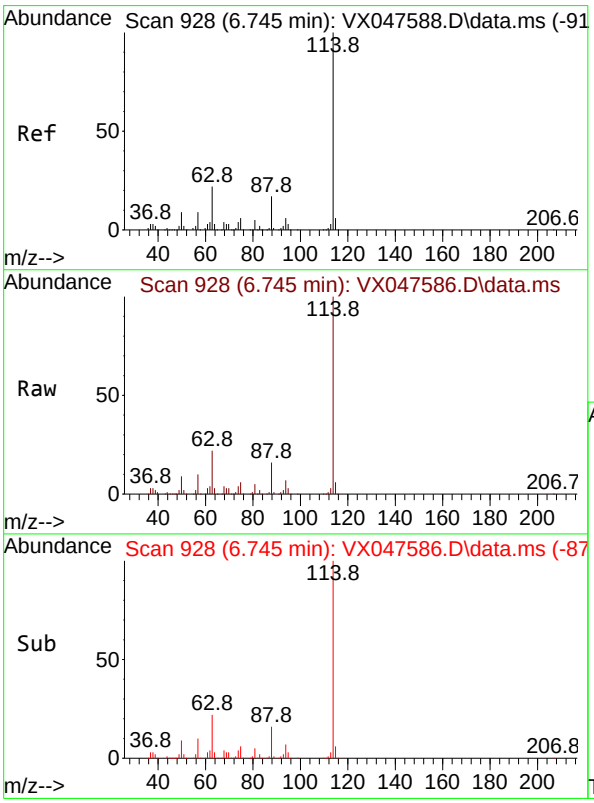
Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

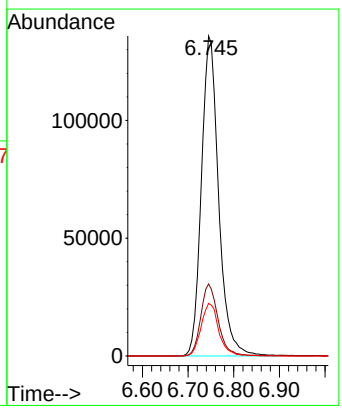
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

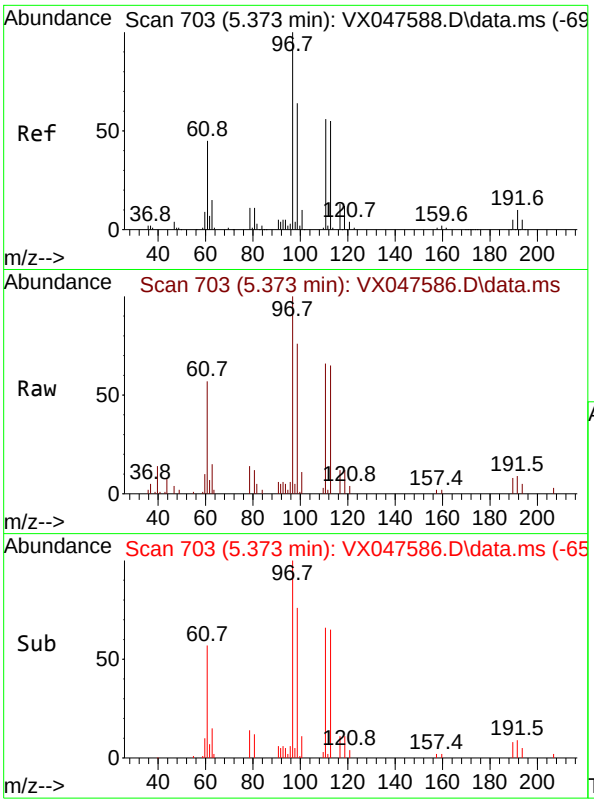


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:114 Resp: 355026

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.4	0.0	34.2

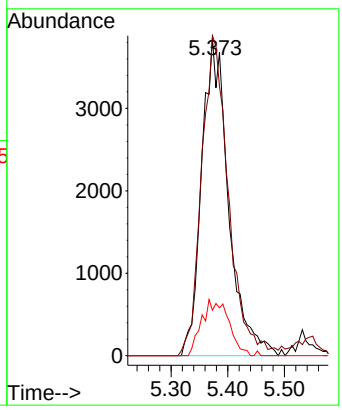




#35
Dibromofluoromethane
Concen: 5.312 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:113 Resp: 1264

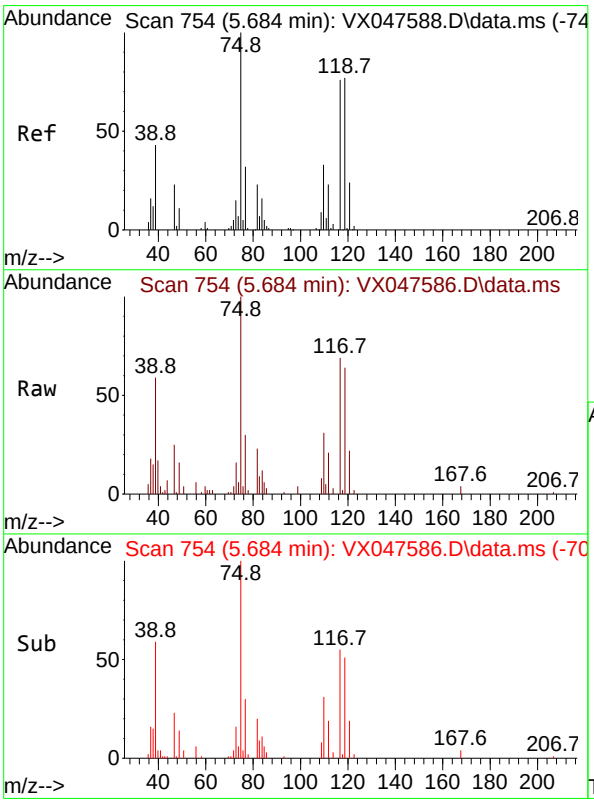
Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

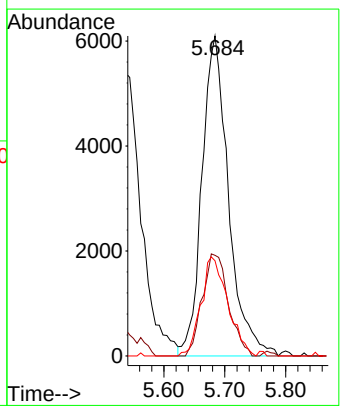
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

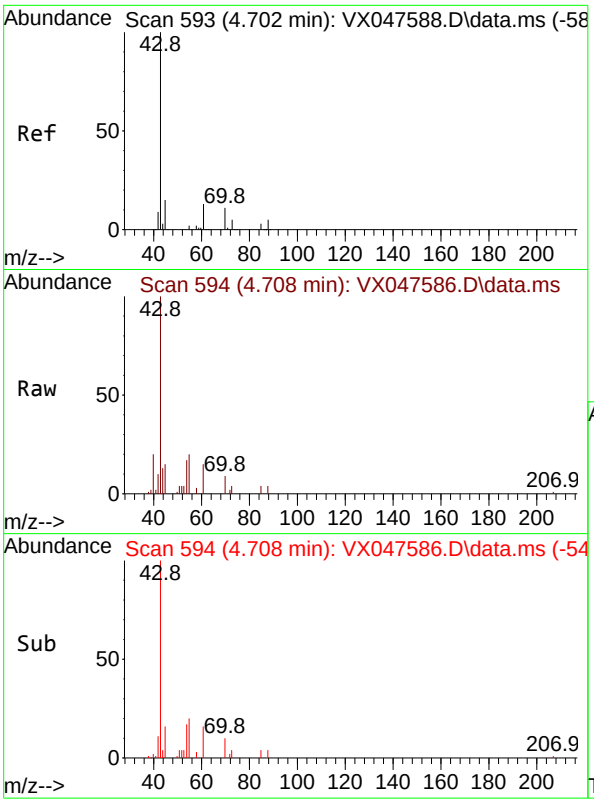


#36
1,1-Dichloropropene
Concen: 5.304 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 18455

Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.7	50.1
77	31.0	24.3	36.5

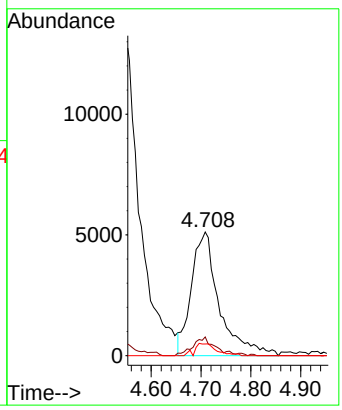




#37
Ethyl Acetate
Concen: 5.345 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 1991

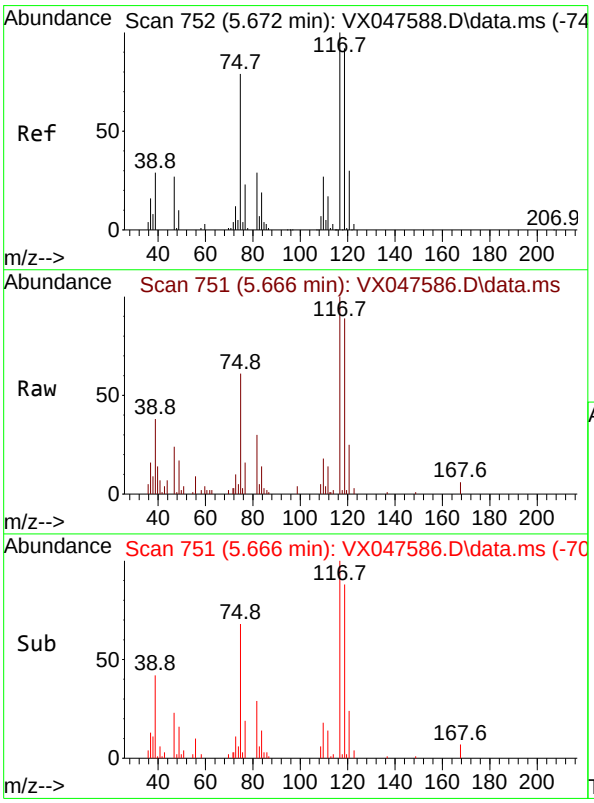
Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

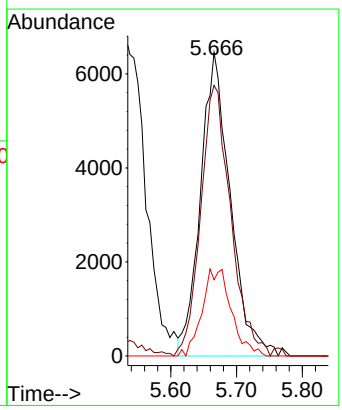
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

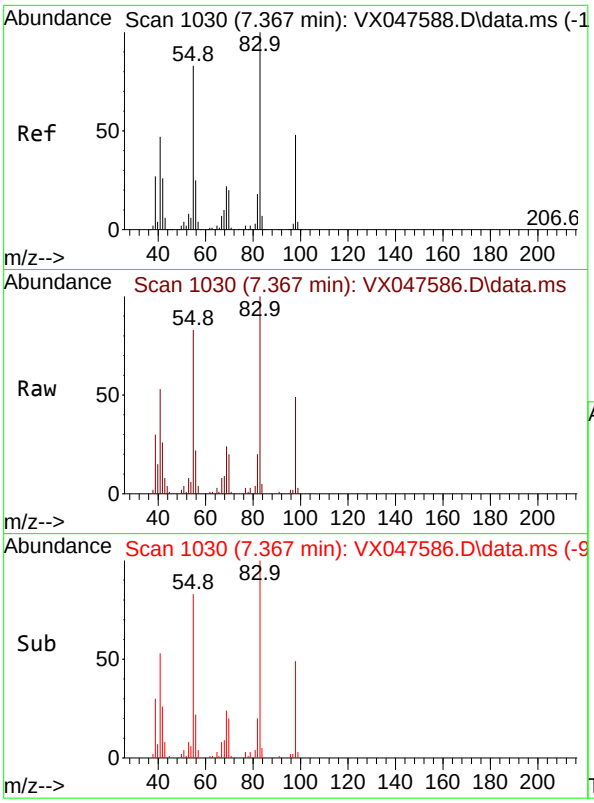


#38
Carbon Tetrachloride
Concen: 5.390 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 20376

Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.4	110.2
121	25.1	23.8	35.6

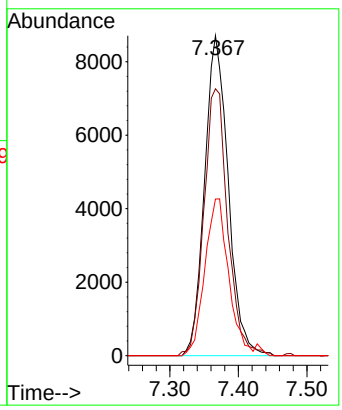




#39
Methylcyclohexane
Concen: 5.292 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 2090

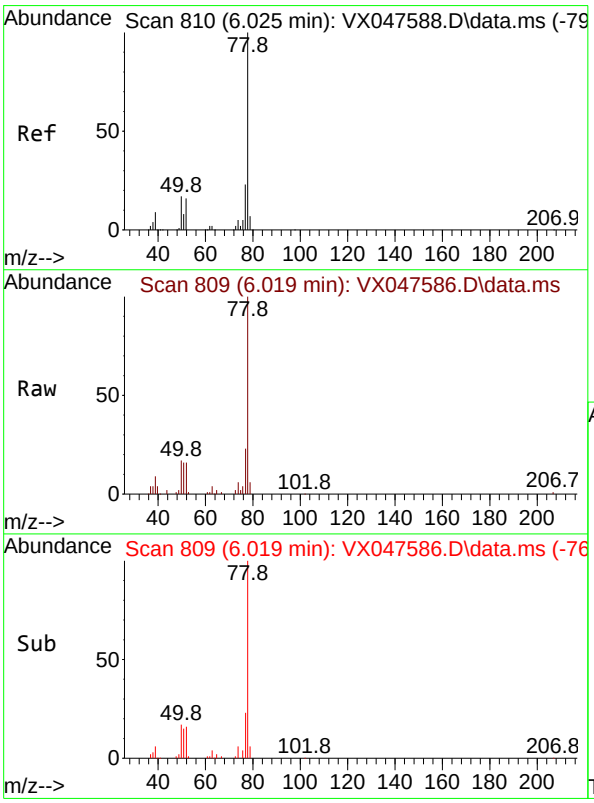
Ion	Ratio	Lower	Upper
83	100		
55	79.1	66.4	99.6
98	46.4	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

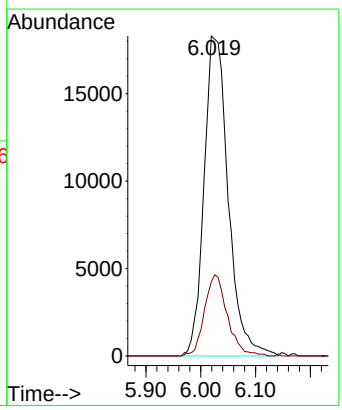
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

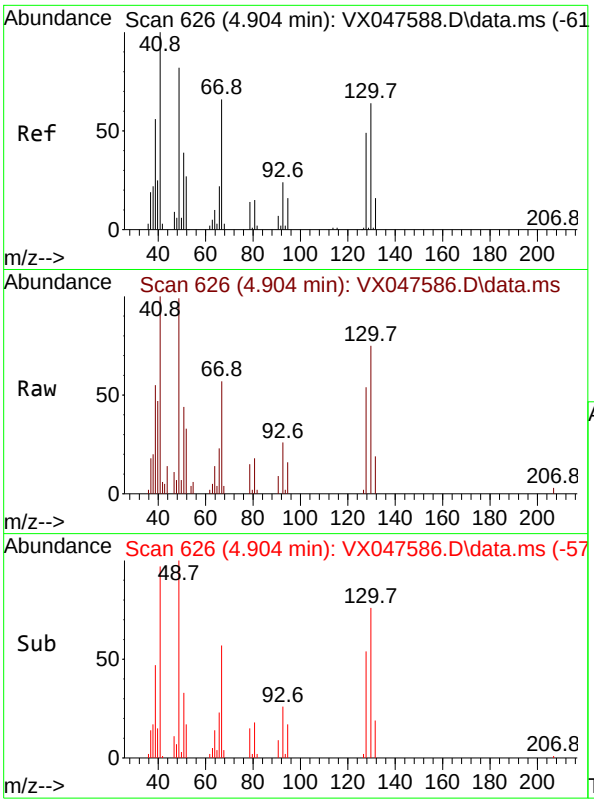


#40
Benzene
Concen: 5.299 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 78 Resp: 55996

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2

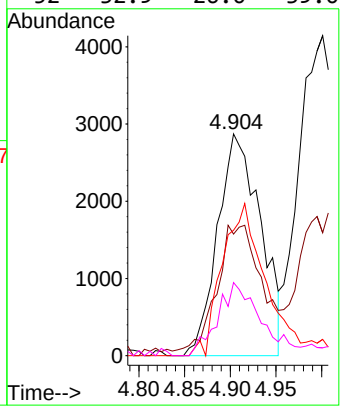




#41
Methacrylonitrile
Concen: 4.883 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 939

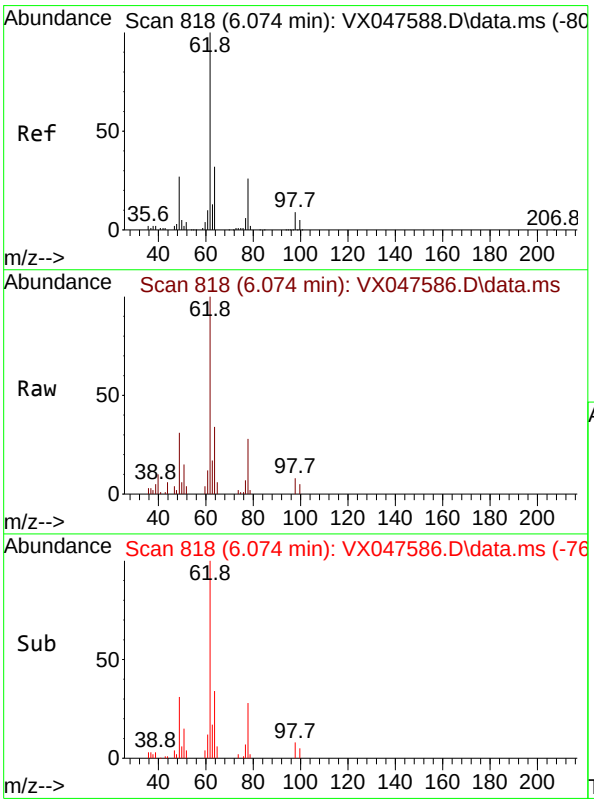
Ion	Ratio	Lower	Upper
41	100		
39	58.3	43.3	64.9
67	68.7	58.6	87.8
52	32.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

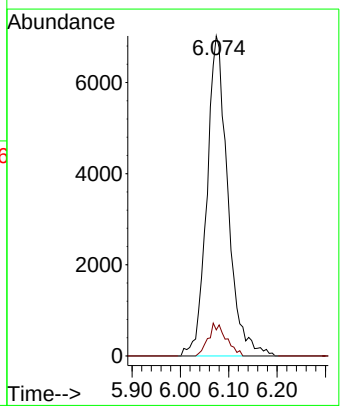
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

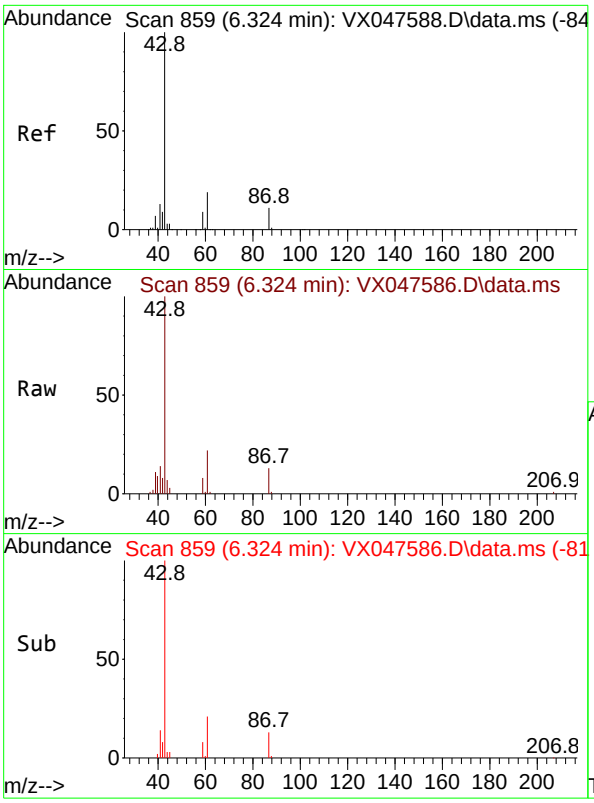


#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 21117

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

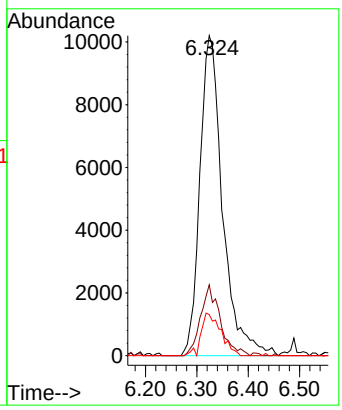




#43
Isopropyl Acetate
Concen: 5.124 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 3130

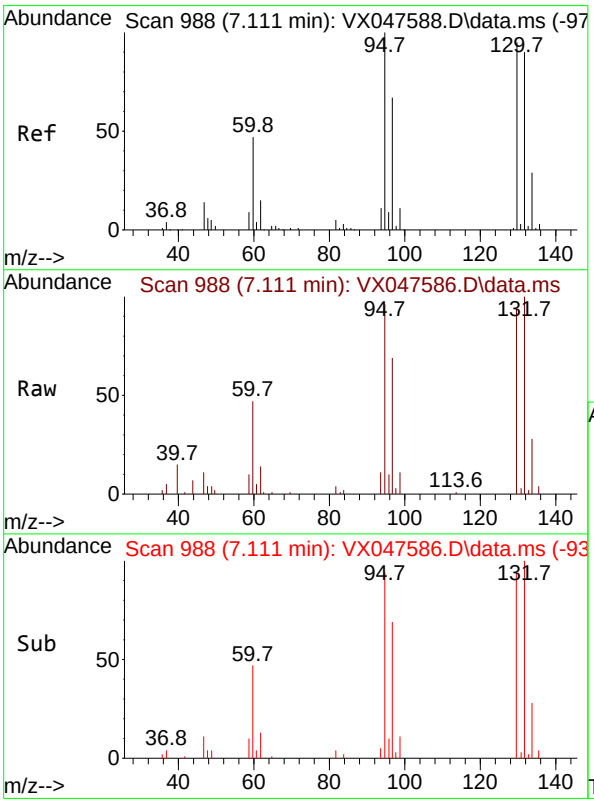
Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	11.6	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

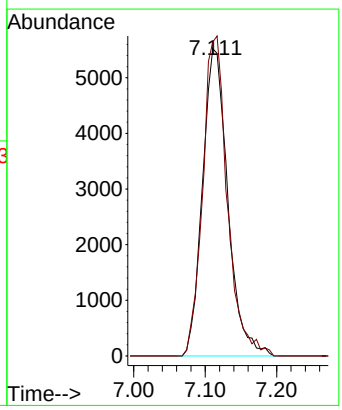
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

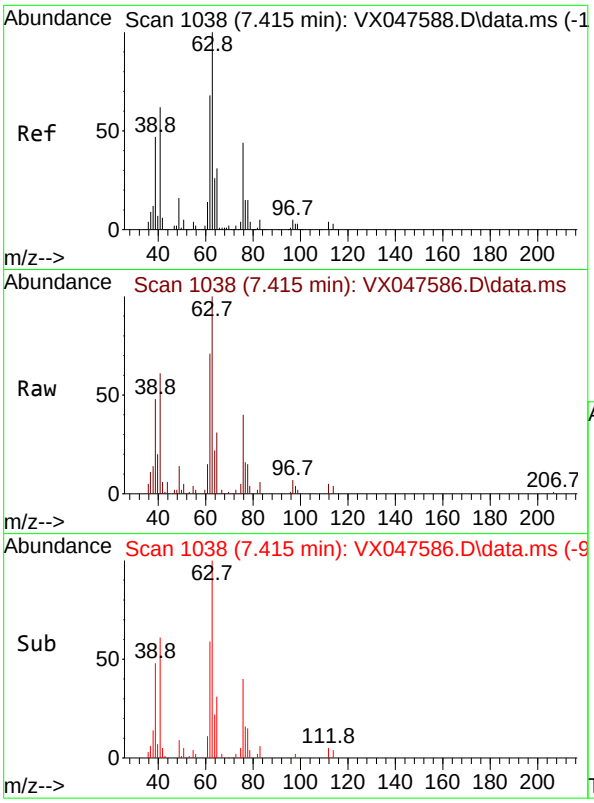


#44
Trichloroethene
Concen: 5.314 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:130 Resp: 13576

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8





#45
1,2-Dichloropropane
Concen: 5.287 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

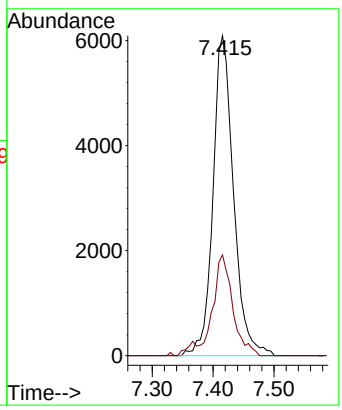
Tgt Ion: 63 Resp: 1430

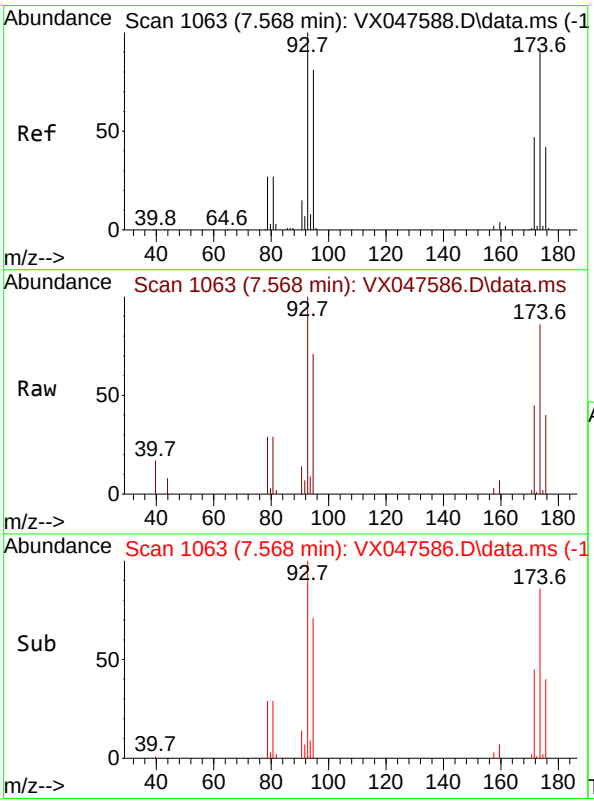
Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

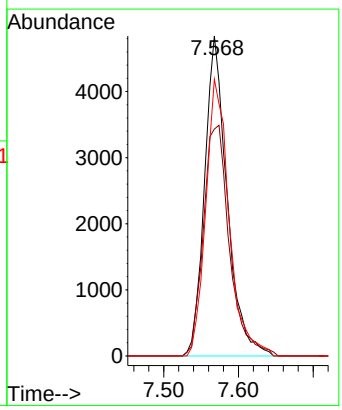


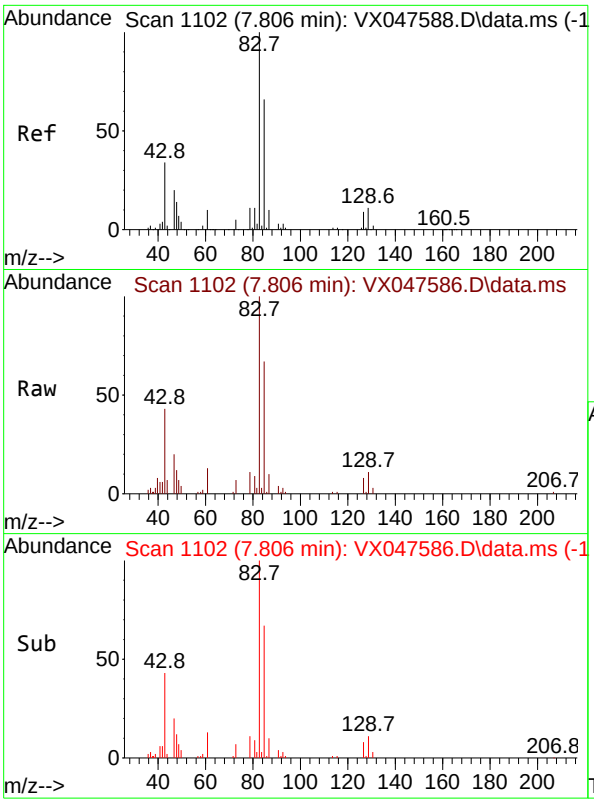


#46
Dibromomethane
Concen: 5.146 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 93 Resp: 10133

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.0	97.6
174	90.0	71.6	107.4

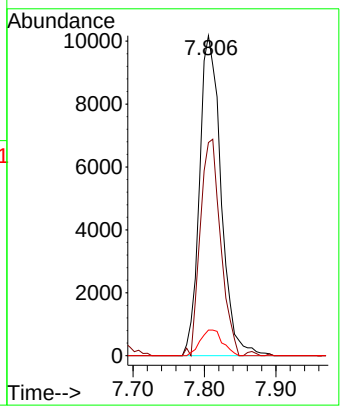




#47
Bromodichloromethane
Concen: 5.235 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 2127

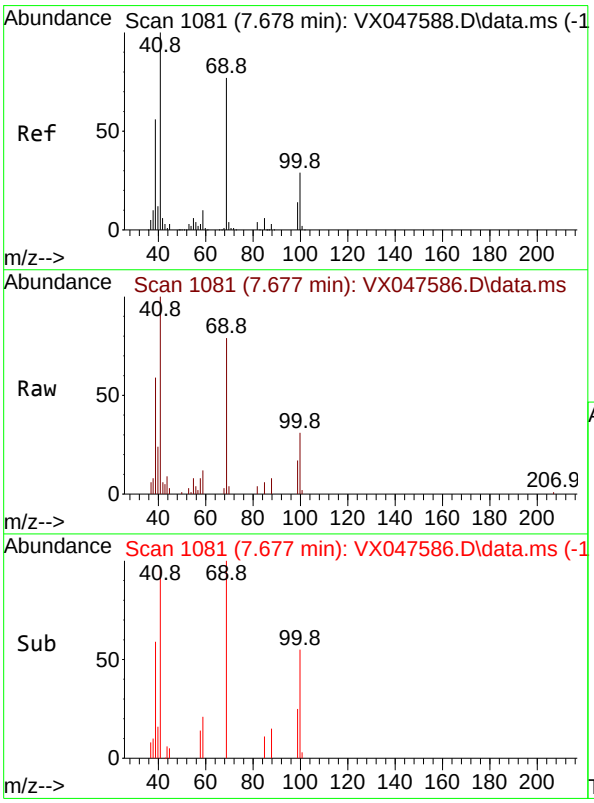
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

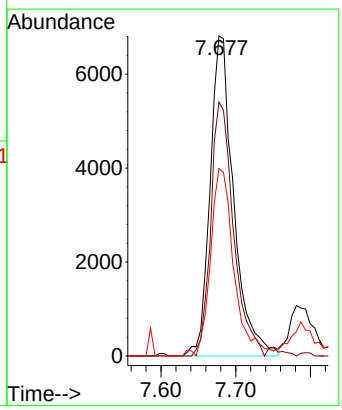
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

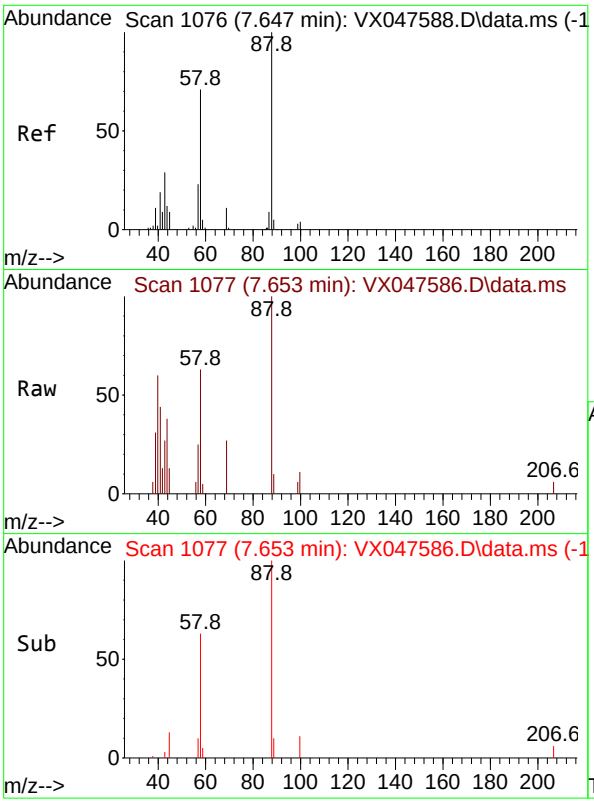


#48
Methyl methacrylate
Concen: 4.915 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 14959

Ion	Ratio	Lower	Upper
41	100		
69	76.4	61.4	92.2
39	58.2	45.8	68.6

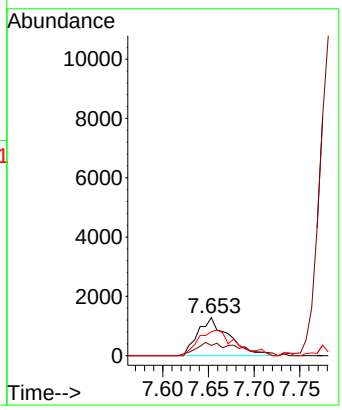




#49
1,4-Dioxane
Concen: 98.096 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 88 Resp: 301

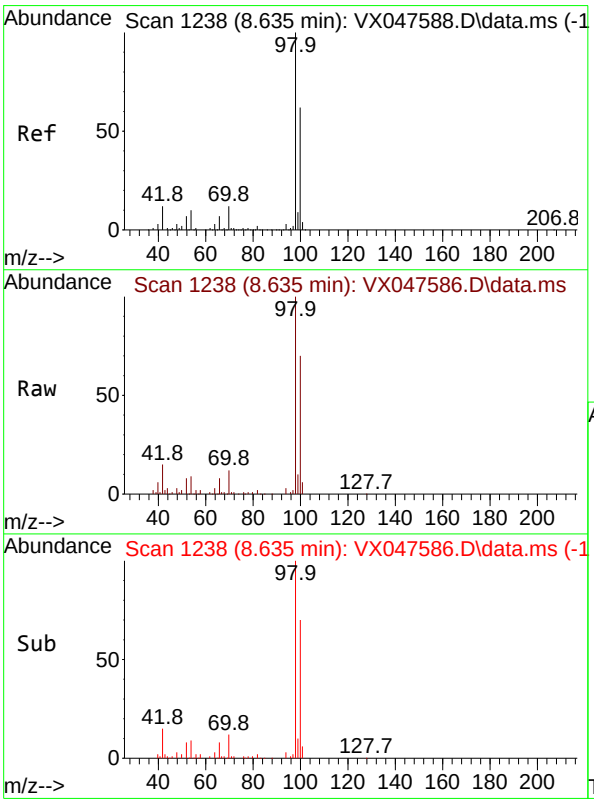
Ion	Ratio	Lower	Upper
88	100		
43	48.3	30.2	45.2#
58	79.1	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

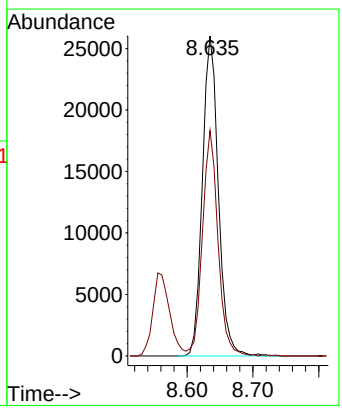
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

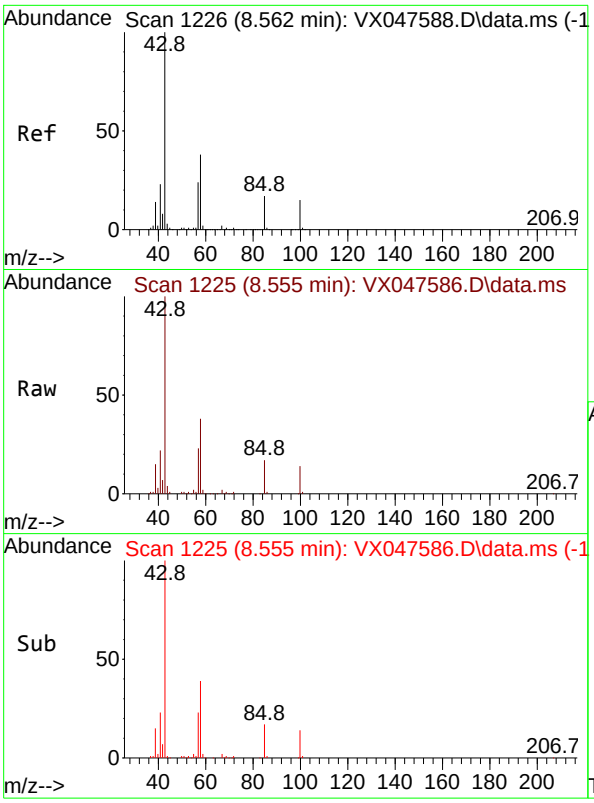


#50
Toluene-d8
Concen: 5.332 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 98 Resp: 43926

Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4

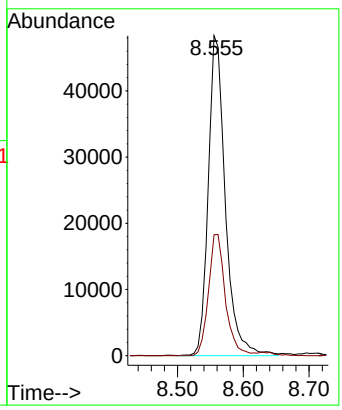




#51
4-Methyl-2-Pentanone
Concen: 25.828 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 8749

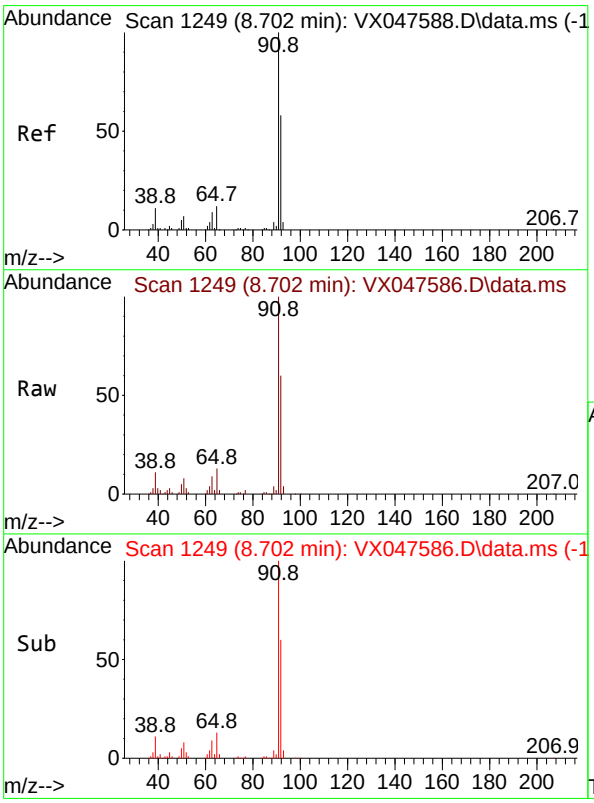
Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

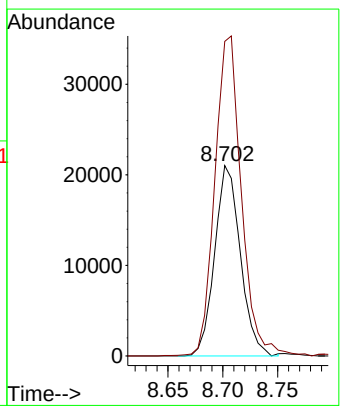
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

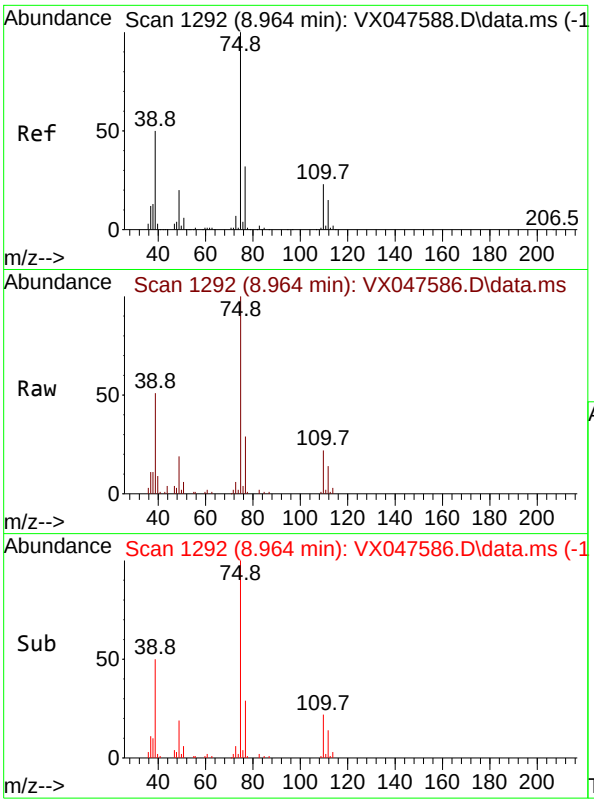


#52
Toluene
Concen: 5.271 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 92 Resp: 34314

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.1	205.7

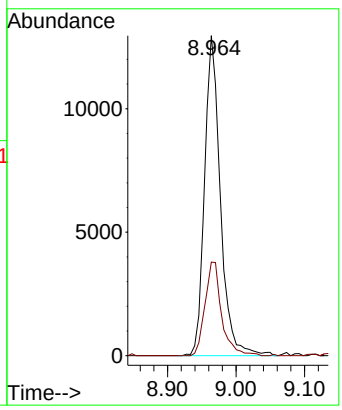




#53
t-1,3-Dichloropropene
Concen: 5.034 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 2086

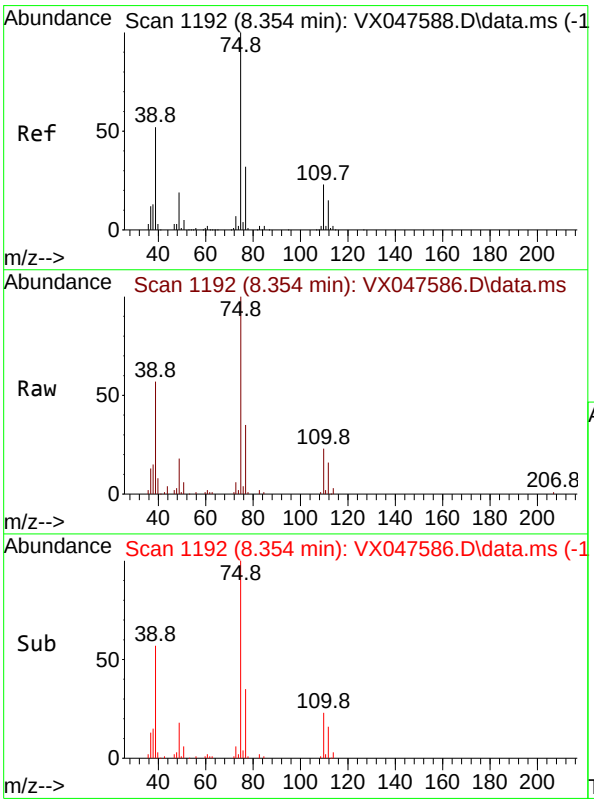
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

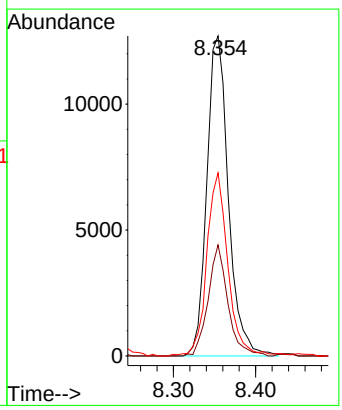
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

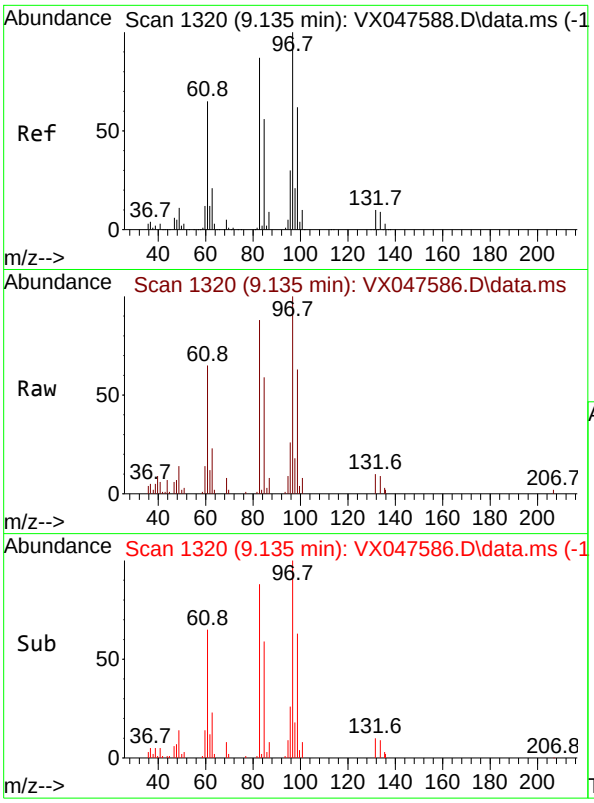


#54
cis-1,3-Dichloropropene
Concen: 5.227 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 23157

Ion	Ratio	Lower	Upper
75	100		
77	34.7	25.8	38.6
39	51.7	41.4	62.2

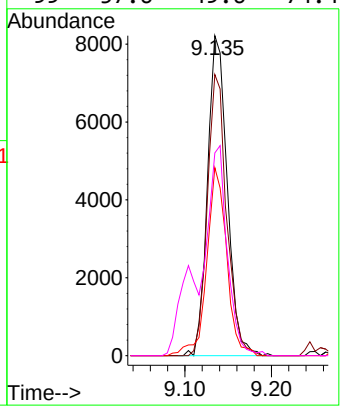




#55
1,1,2-Trichloroethane
Concen: 5.166 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 1296

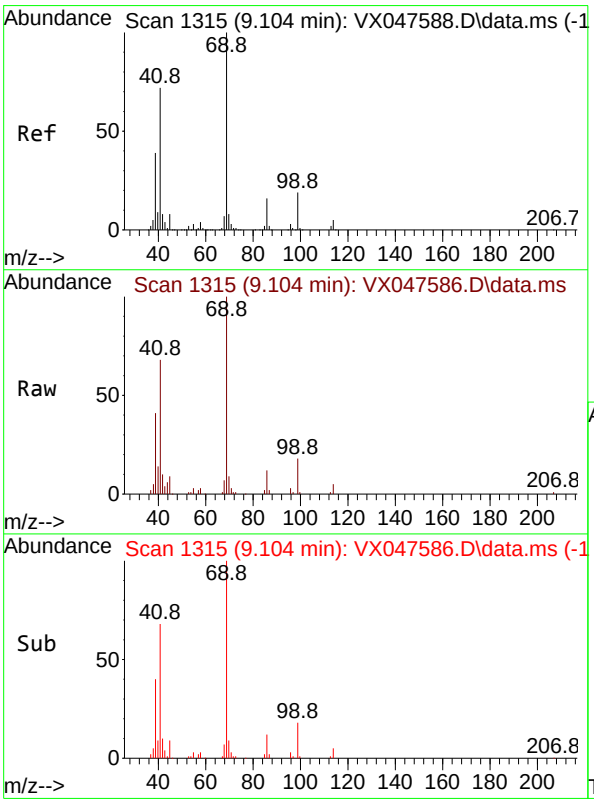
Ion	Ratio	Lower	Upper
97	100		
83	76.7	69.6	104.4
85	49.9	45.0	67.6
99	57.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

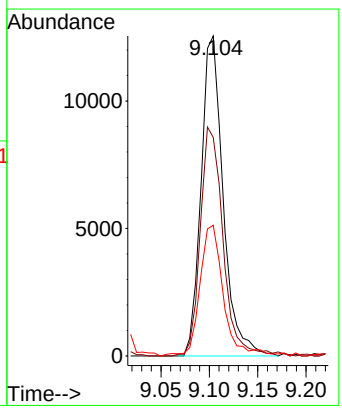
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

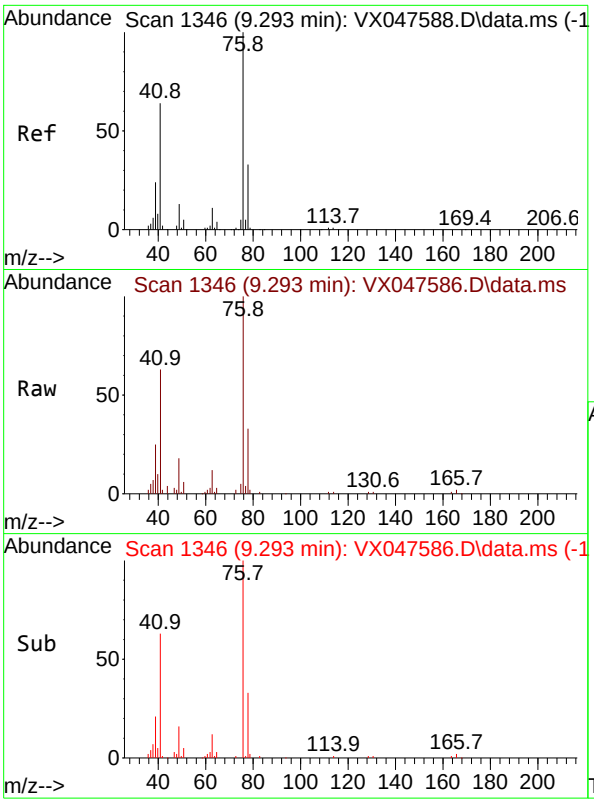


#56
Ethyl methacrylate
Concen: 5.068 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 69 Resp: 19980

Ion	Ratio	Lower	Upper
69	100		
41	73.9	58.6	87.8
39	43.7	31.5	47.3

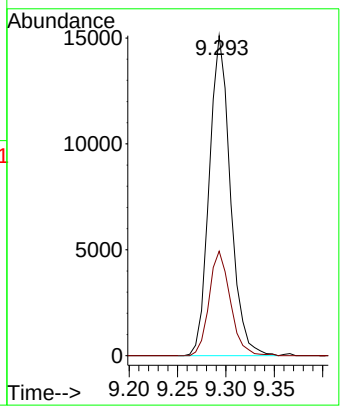




#57
1,3-Dichloropropane
Concen: 5.331 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 76 Resp: 2298

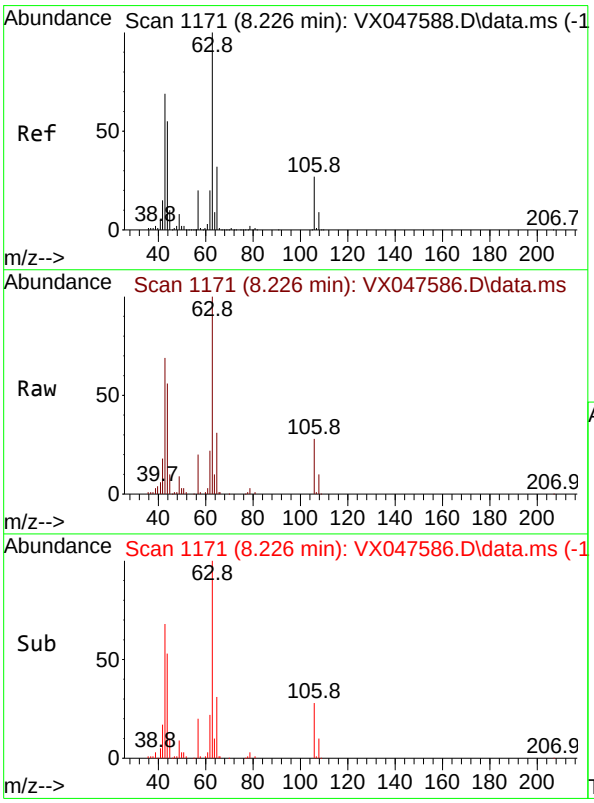
Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

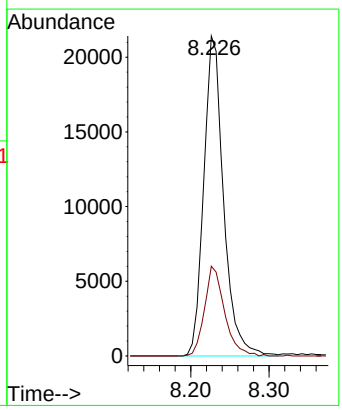
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

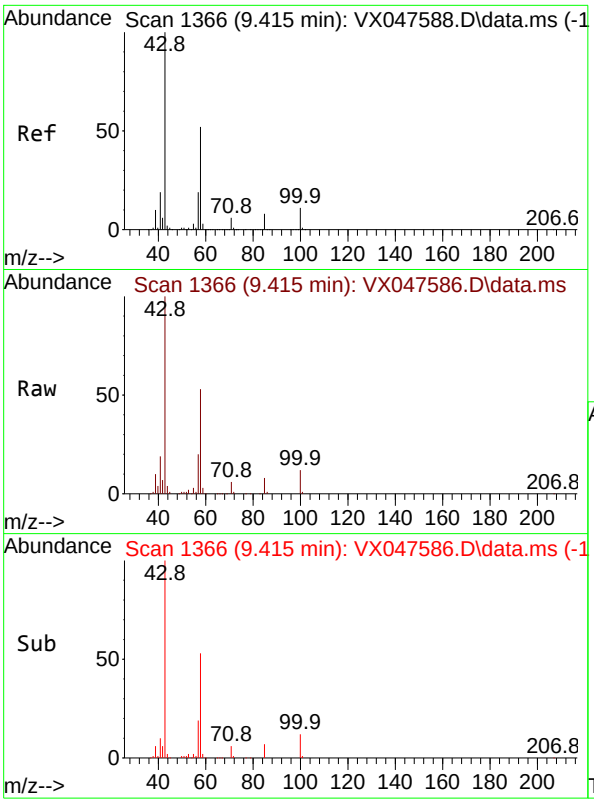


#58
2-Chloroethyl Vinyl ether
Concen: 27.899 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 37585

Ion	Ratio	Lower	Upper
63	100		
106	28.3	21.9	32.9

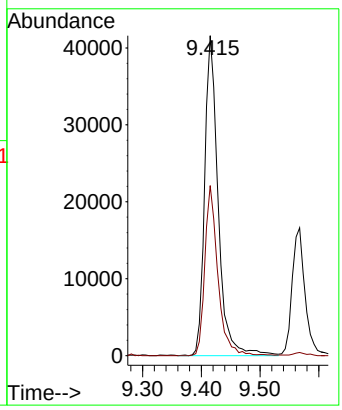




#59
2-Hexanone
Concen: 27.275 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 6635

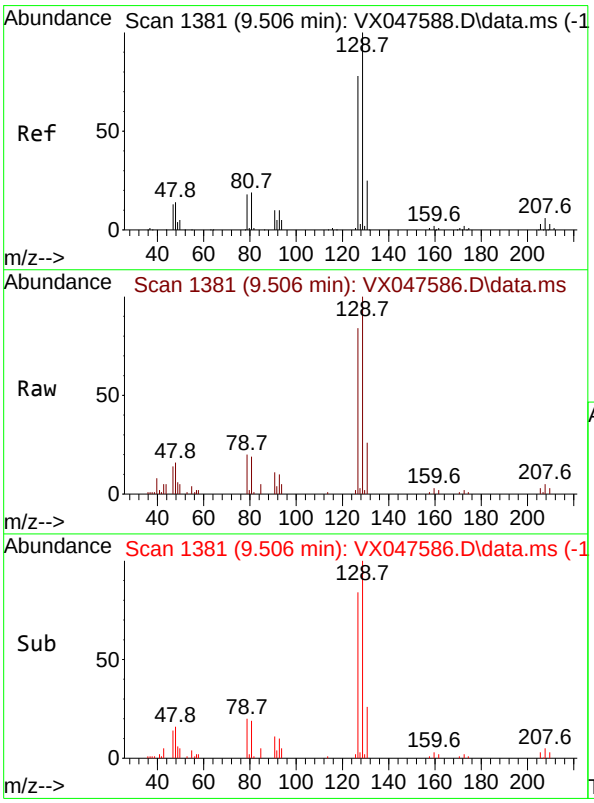
Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

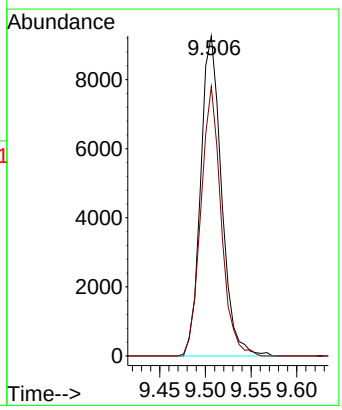
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

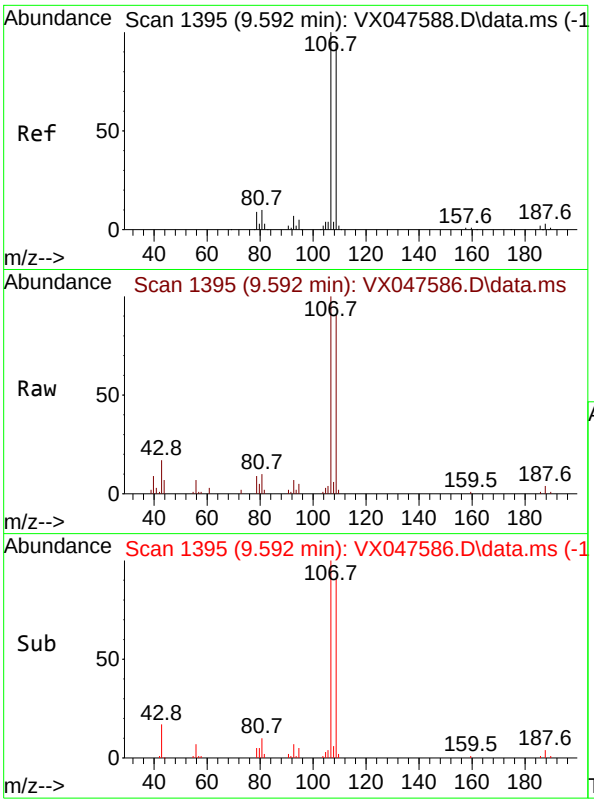


#60
Dibromochloromethane
Concen: 5.084 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:129 Resp: 14705

Ion	Ratio	Lower	Upper
129	100		
127	81.4	38.4	115.2

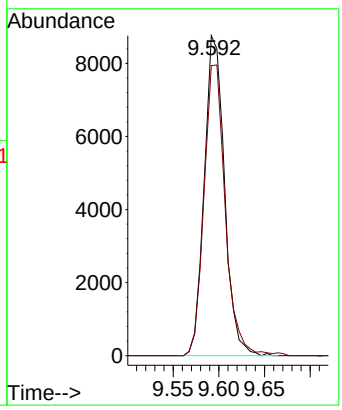




#61
1,2-Dibromoethane
Concen: 5.264 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:107 Resp: 1346

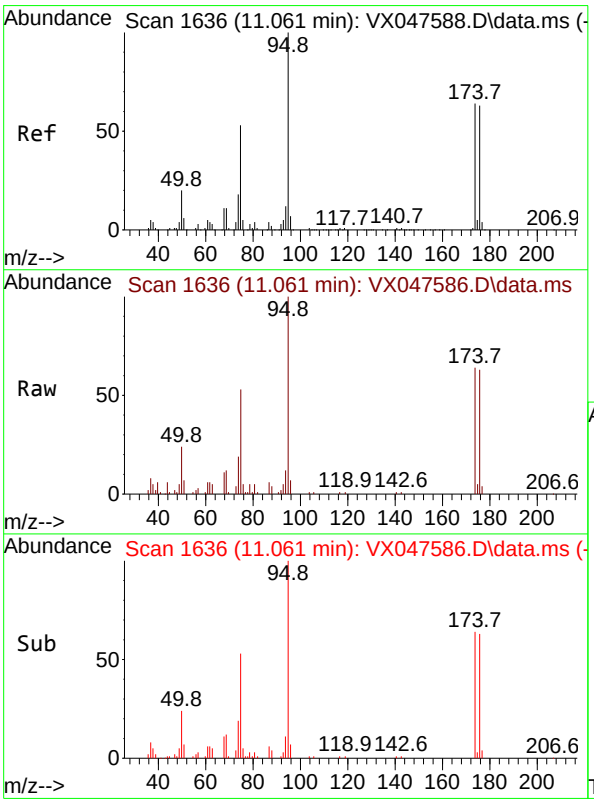
Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

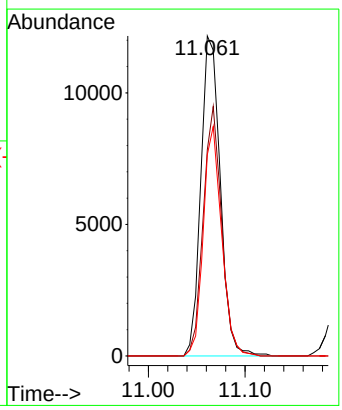
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

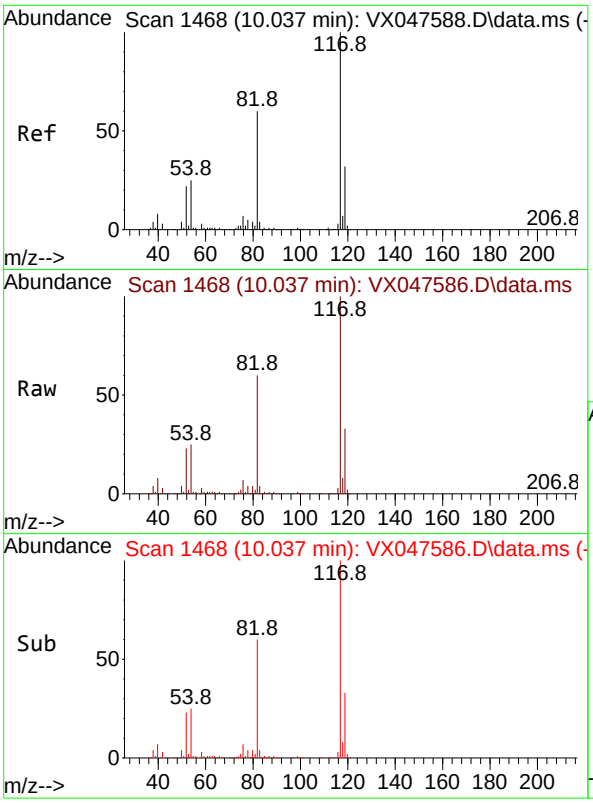


#62
4-Bromofluorobenzene
Concen: 5.429 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 95 Resp: 16974

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	141.6
176	67.9	0.0	138.4

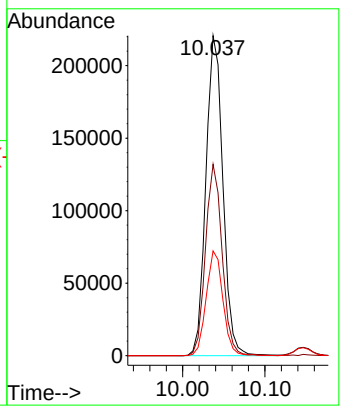




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 31728

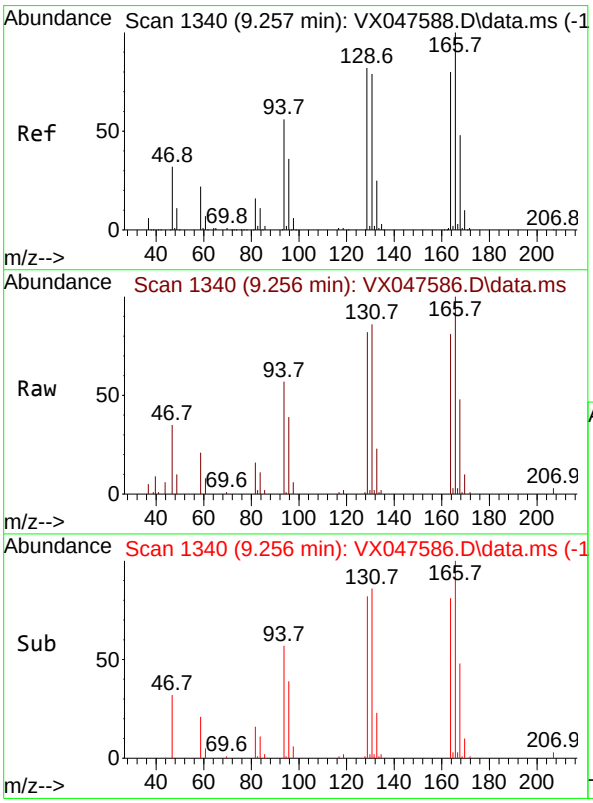
Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.8	71.6
119	32.8	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

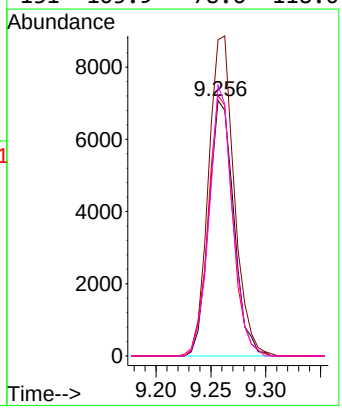
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

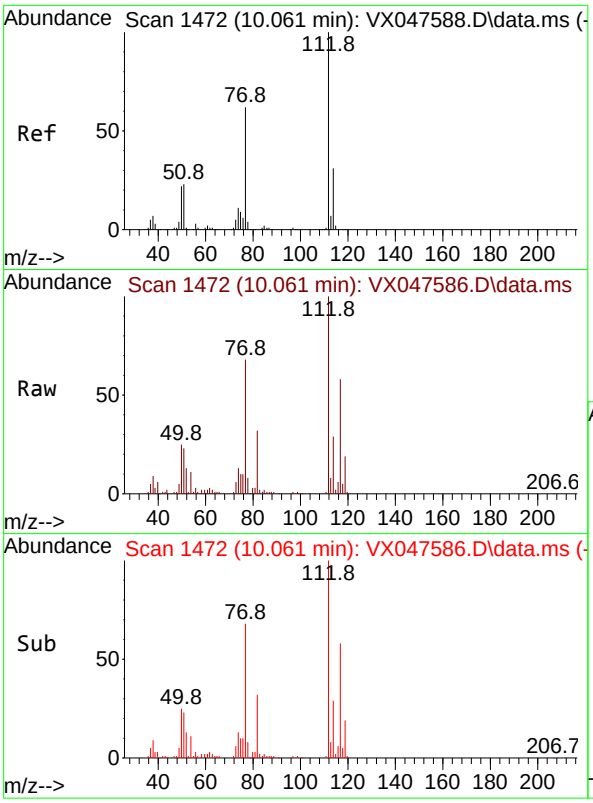


#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:164 Resp: 11228

Ion	Ratio	Lower	Upper
164	100		
166	123.8	100.2	150.2
129	102.0	81.8	122.6
131	105.9	78.6	118.0

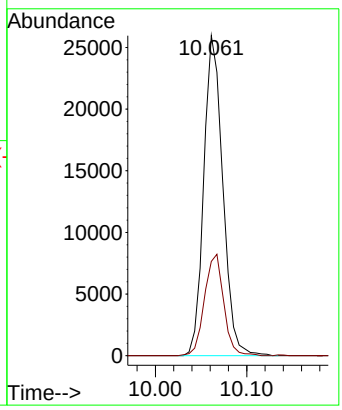




#65
Chlorobenzene
Concen: 5.203 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:112 Resp: 3750

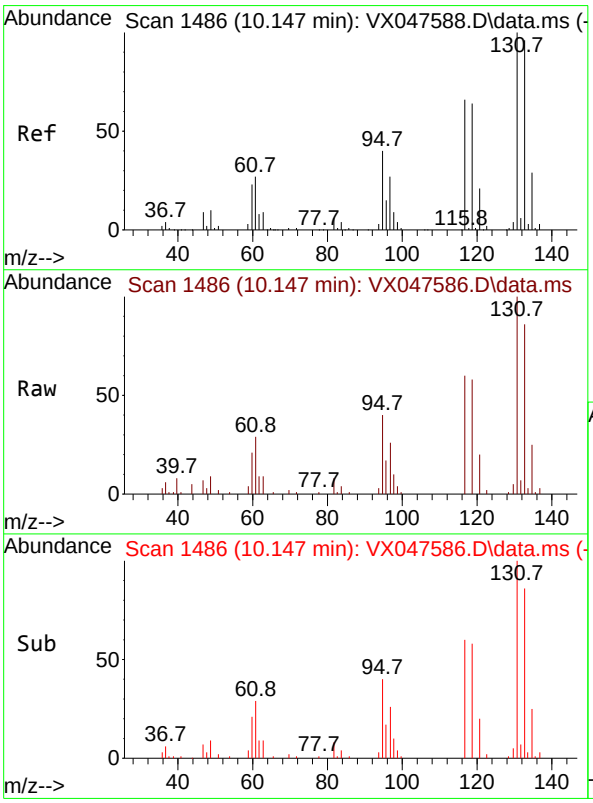
Ion	Ratio	Lower	Upper
112	100		
114	29.2	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

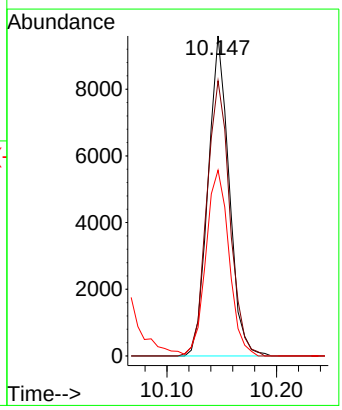
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

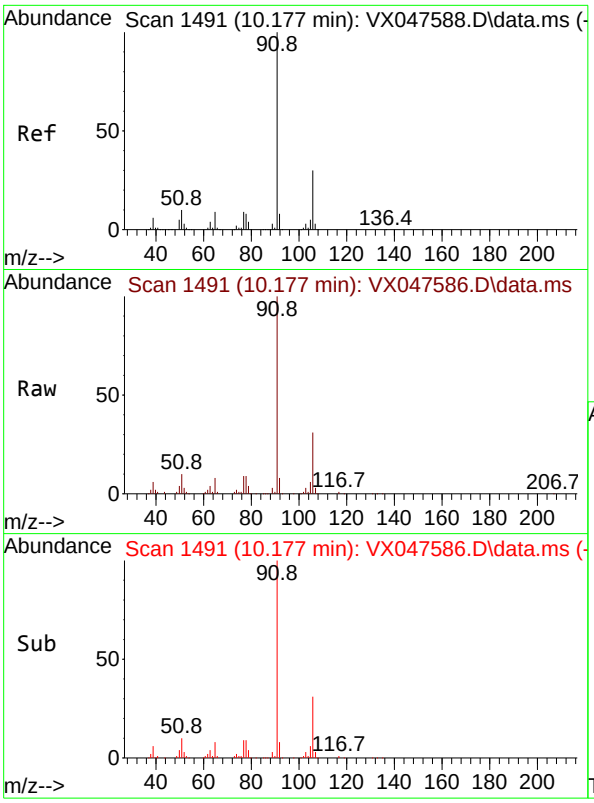


#66
1,1,1,2-Tetrachloroethane
Concen: 5.149 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:131 Resp: 12807

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	142.0
119	63.5	32.0	96.0

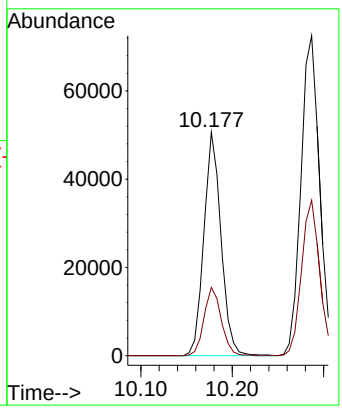




#67
Ethyl Benzene
Concen: 5.299 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 6590

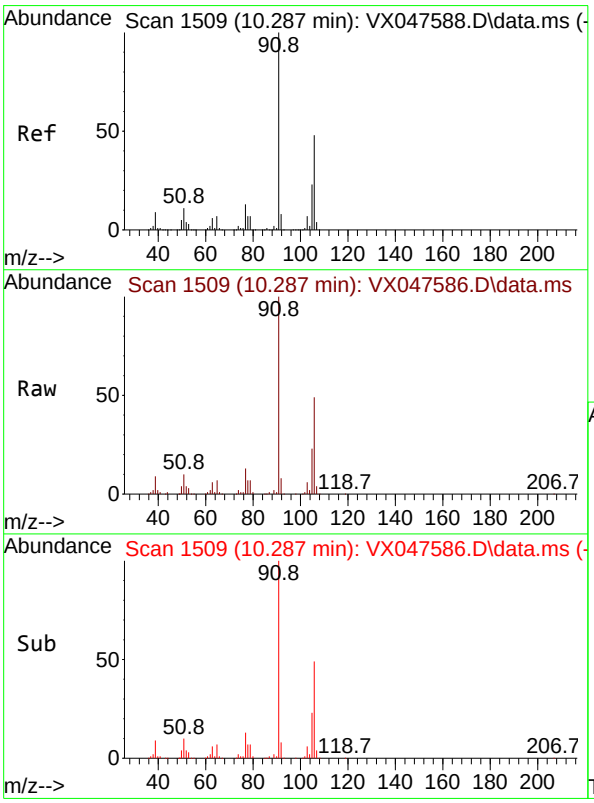
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

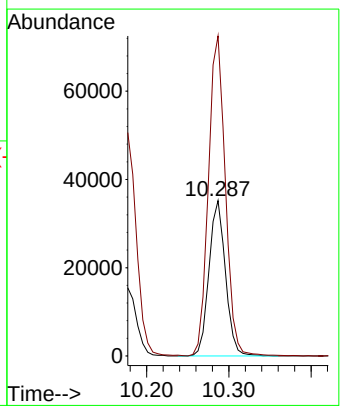
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

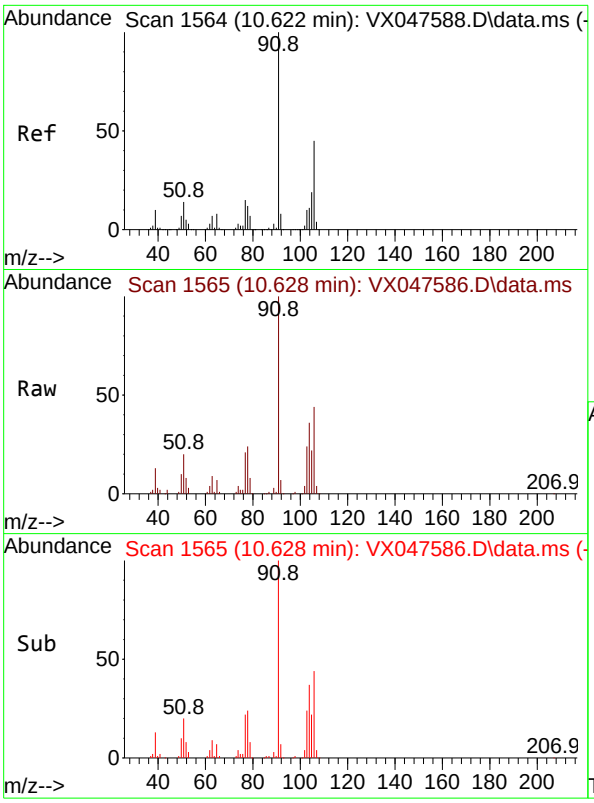


#68
m/p-Xylenes
Concen: 10.613 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 49132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	167.8	251.8

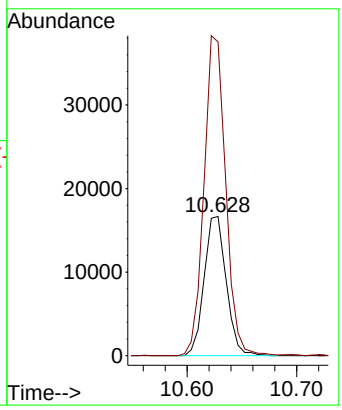




#69
o-Xylene
Concen: 5.204 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 2330

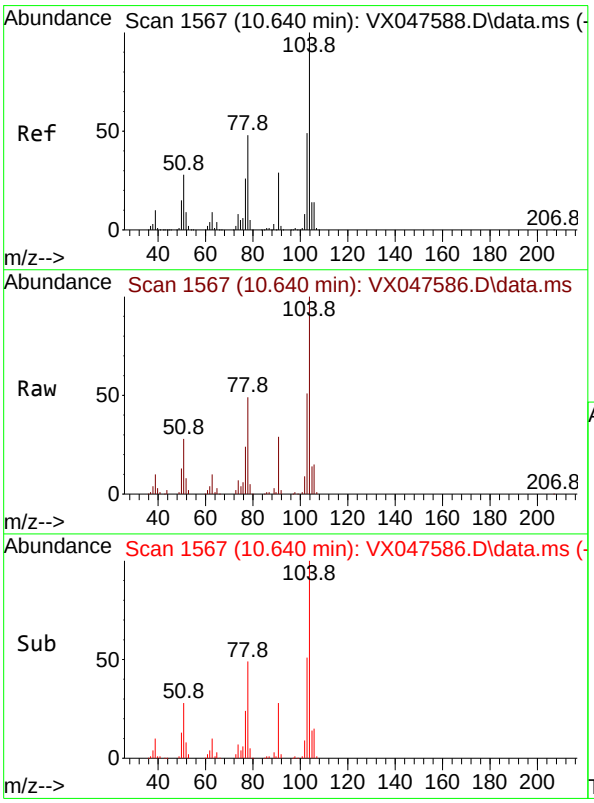
Ion	Ratio	Lower	Upper
106	100		
91	226.3	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

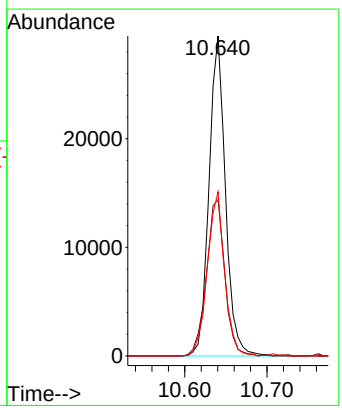
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

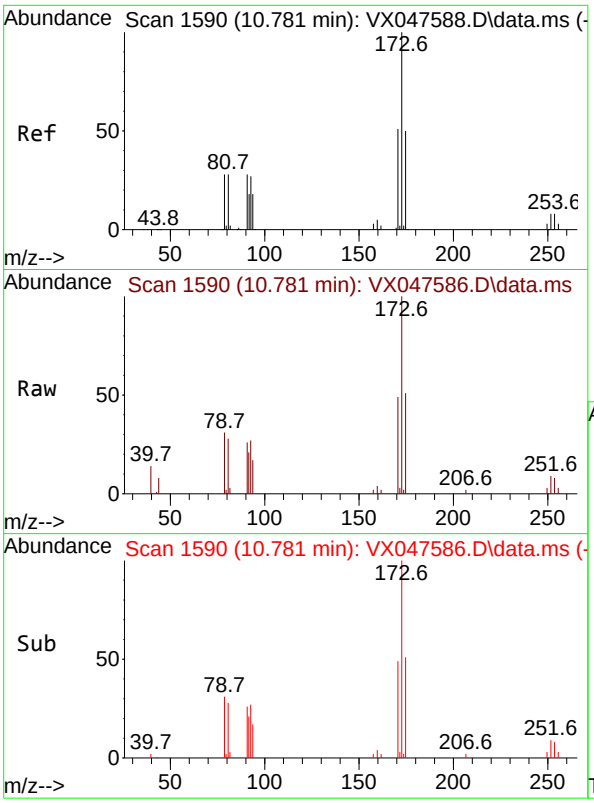


#70
Styrene
Concen: 5.210 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:104 Resp: 40872

Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.1	64.7
103	53.7	43.1	64.7

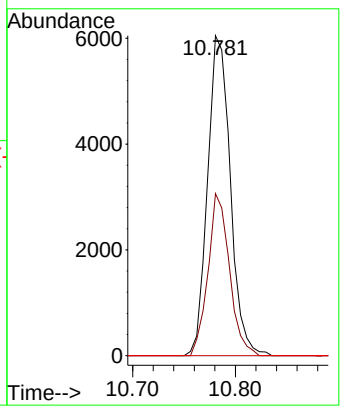




#71
Bromoform
Concen: 5.006 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:173 Resp: 929

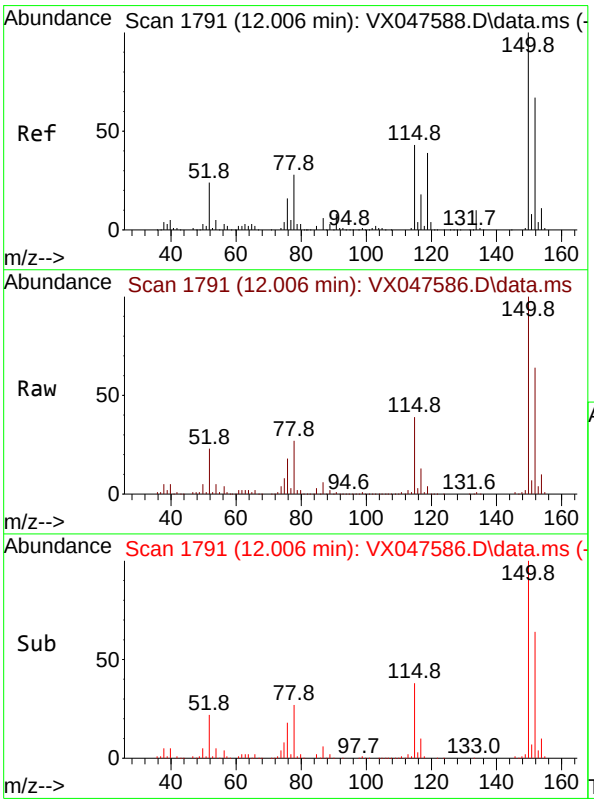
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

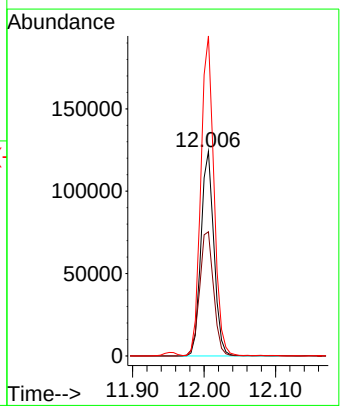
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

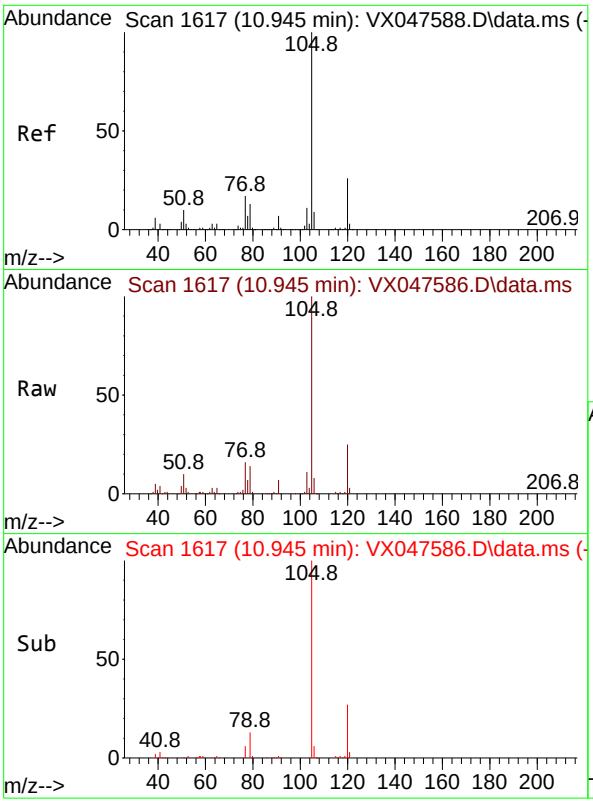


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:152 Resp: 156219

Ion	Ratio	Lower	Upper
152	100		
115	65.6	44.9	134.5
150	157.8	0.0	352.0

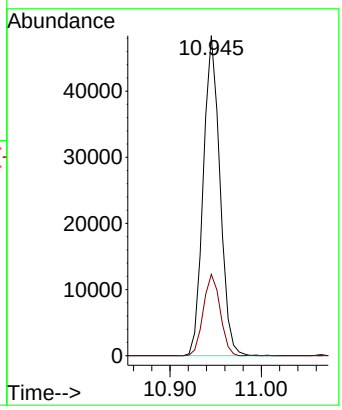




#73
Isopropylbenzene
Concen: 5.139 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 6102

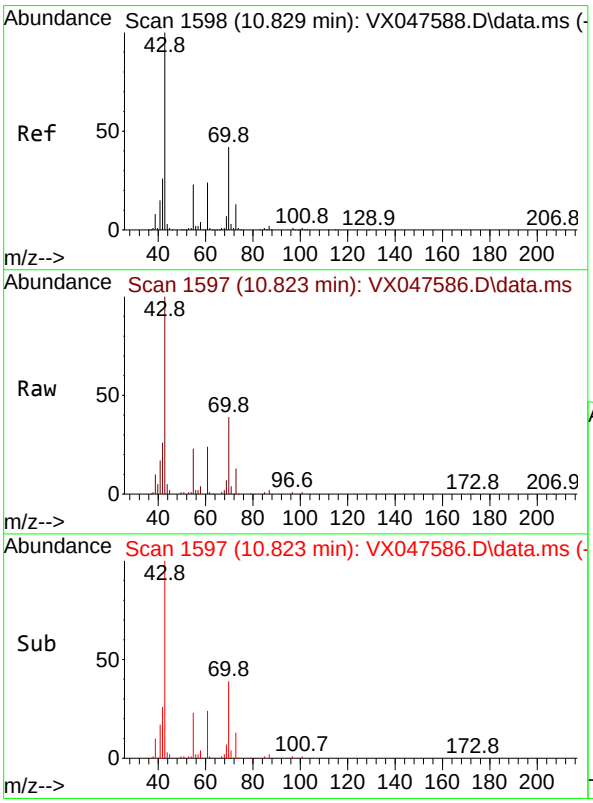
Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

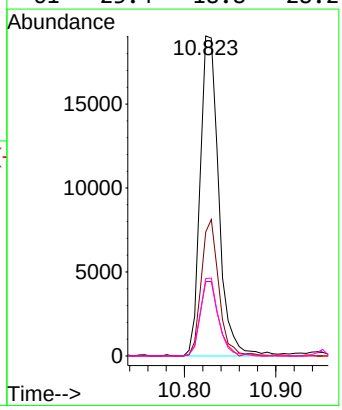
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

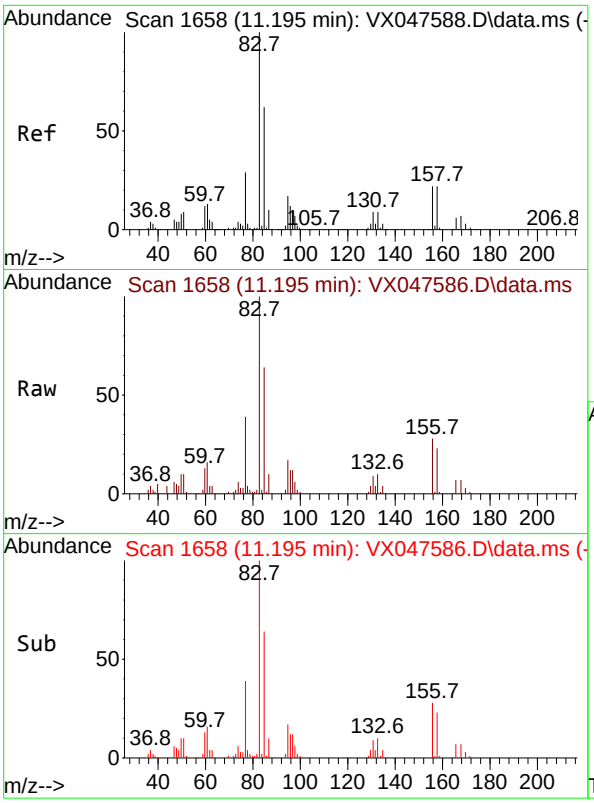


#74
N-amyl acetate
Concen: 4.980 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 26969

Ion	Ratio	Lower	Upper
43	100		
70	39.9	32.0	48.0
55	23.1	18.9	28.3
61	23.4	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 5.138 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

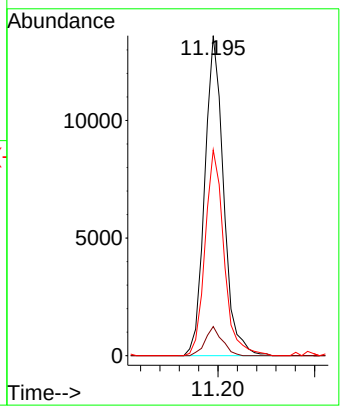
Tgt Ion: 83 Resp: 1846

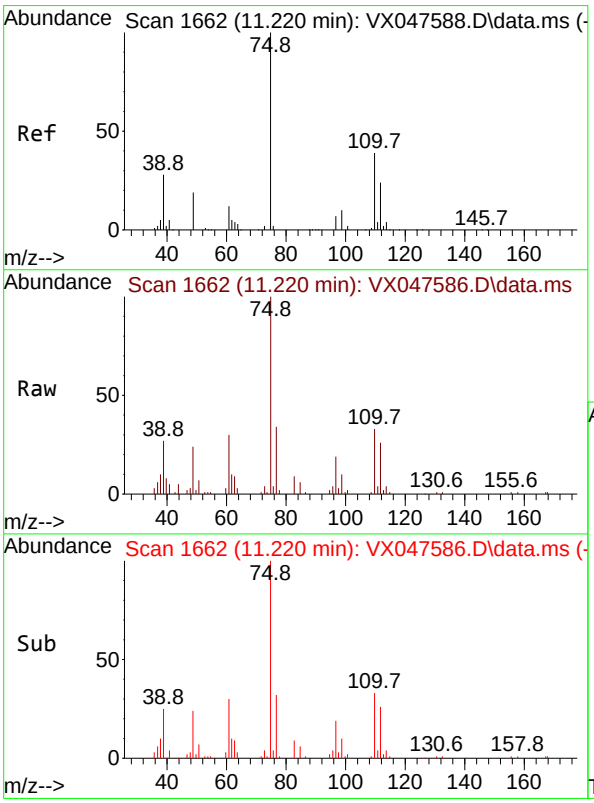
Ion	Ratio	Lower	Upper
83	100		
131	8.2	5.0	14.9
85	64.4	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

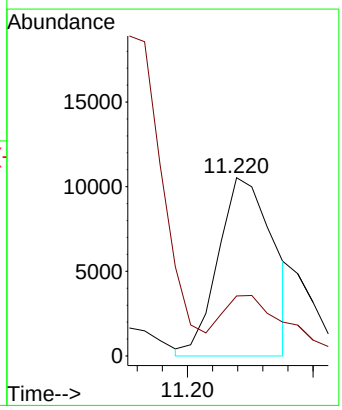


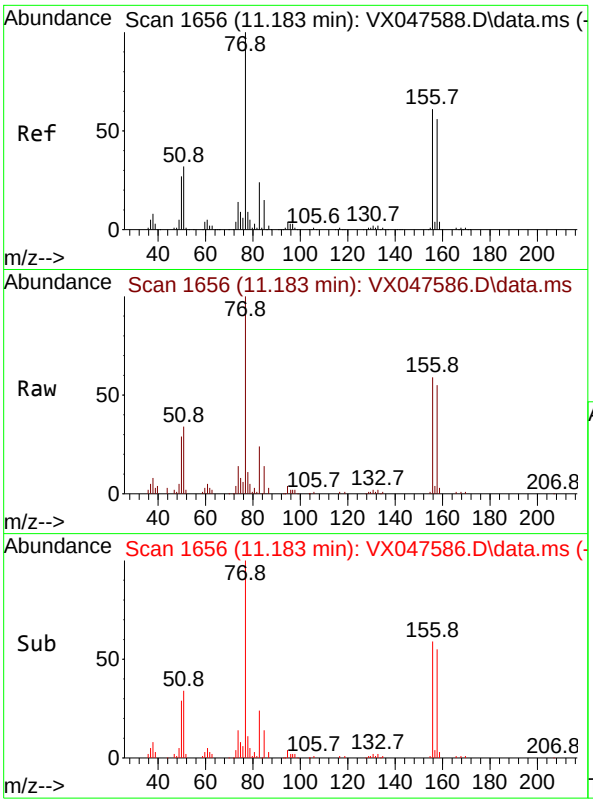


#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 15982

Ion	Ratio	Lower	Upper
75	100		
77	40.6	18.8	56.4

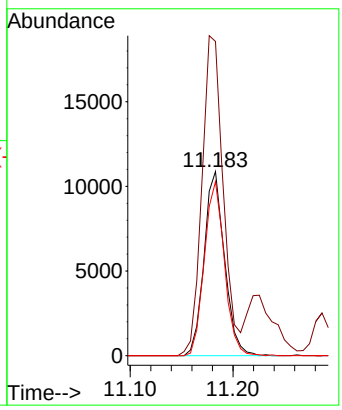




#77
Bromobenzene
Concen: 5.150 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:156 Resp: 1506

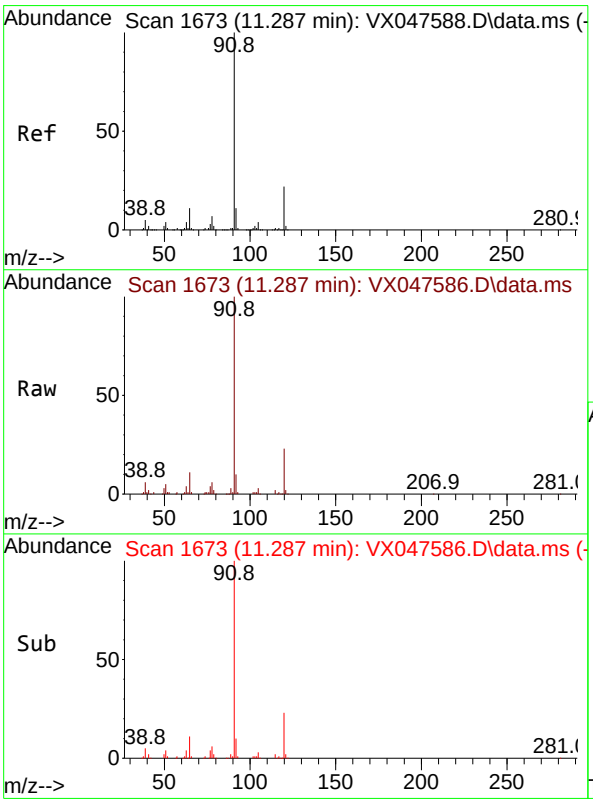
Ion	Ratio	Lower	Upper
156	100		
77	180.3	89.7	269.1
158	92.6	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

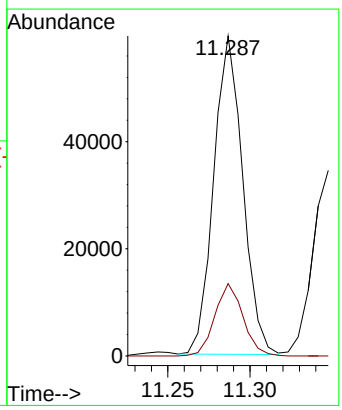
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

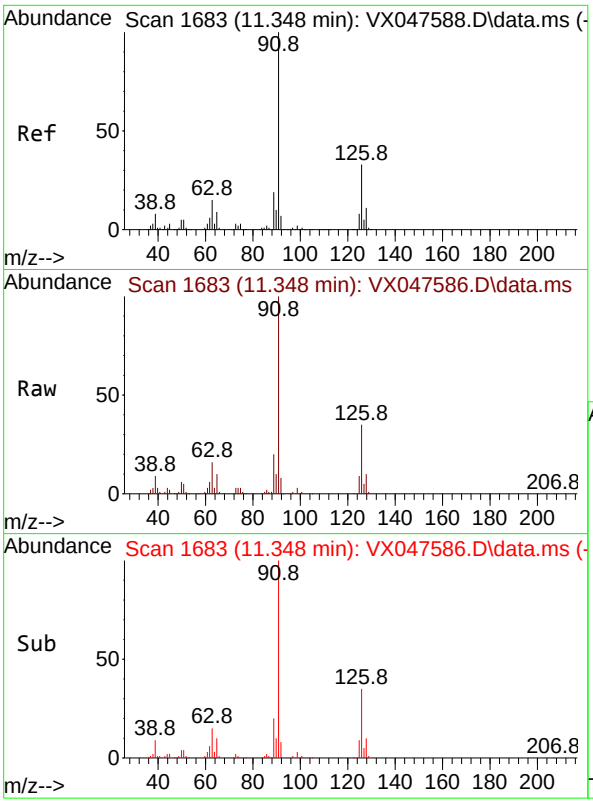


#78
n-propylbenzene
Concen: 5.192 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 72900

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.1

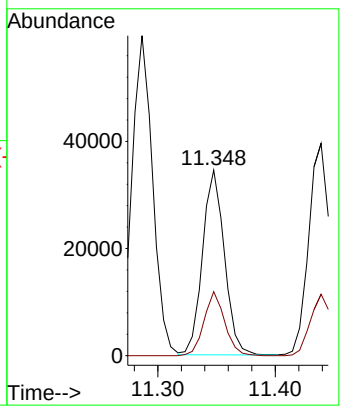




#79
2-Chlorotoluene
Concen: 5.194 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 4466

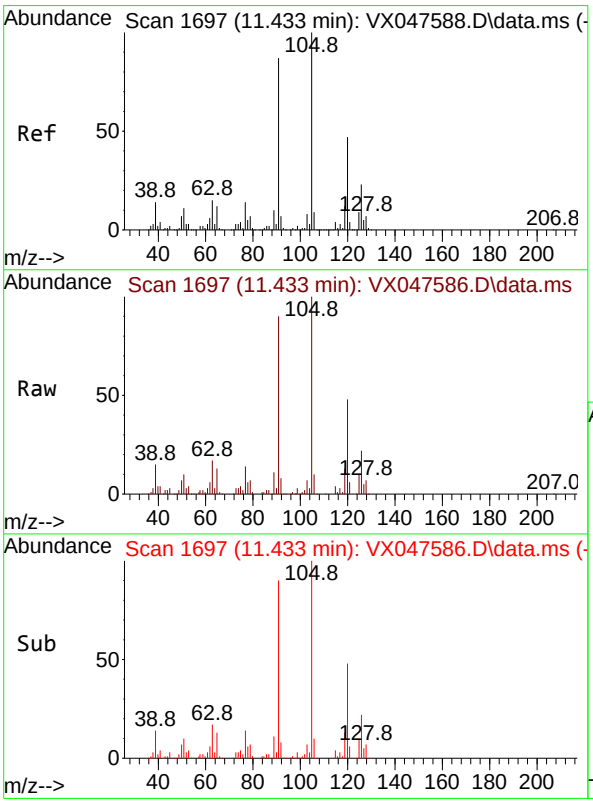
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

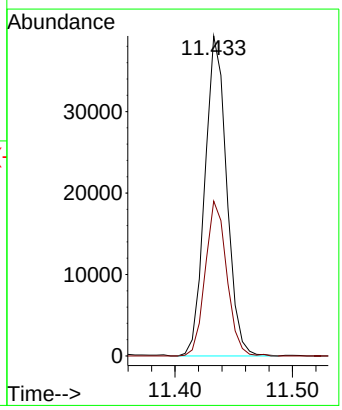
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

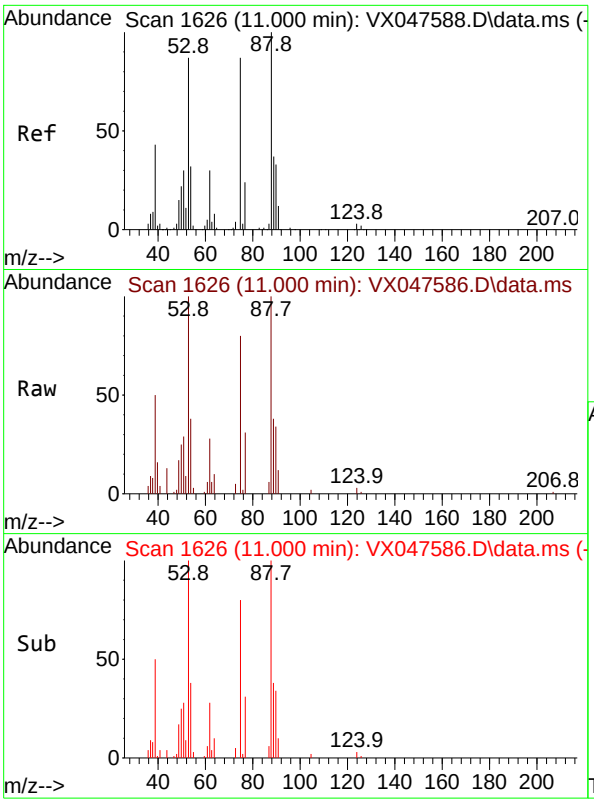


#80
1,3,5-Trimethylbenzene
Concen: 5.179 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 50535

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

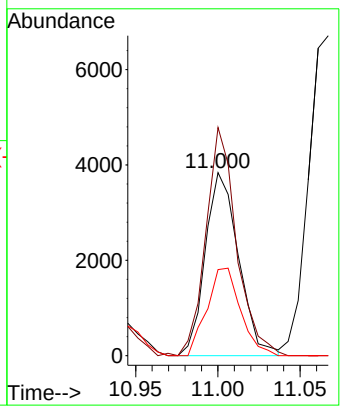
Tgt Ion: 75 Resp: 541

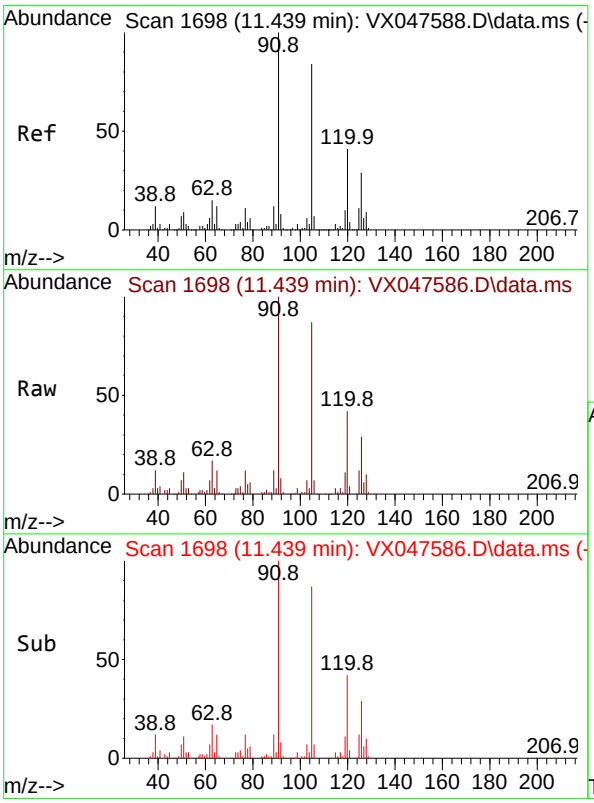
Ion	Ratio	Lower	Upper
75	100		
53	114.9	83.4	125.2
89	48.3	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

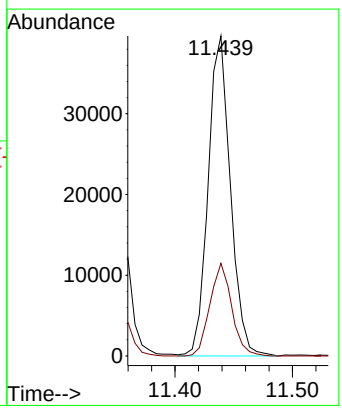


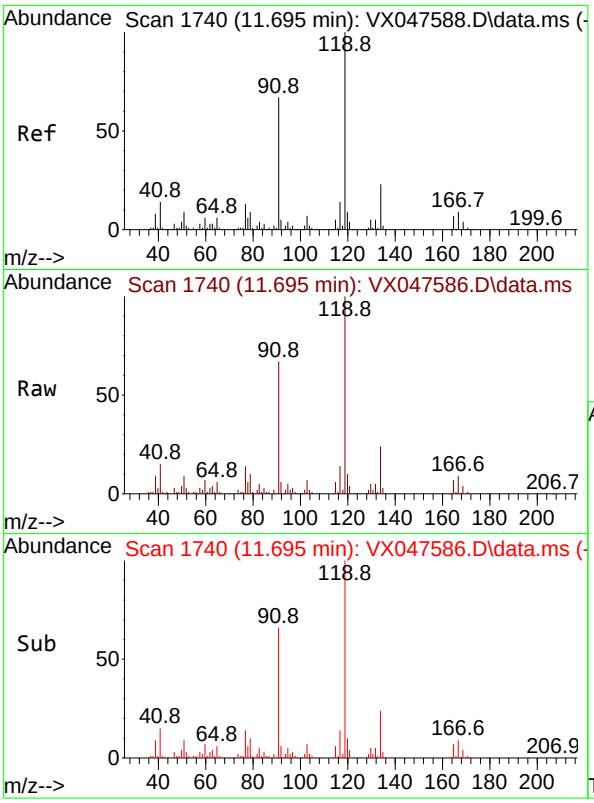


#82
4-Chlorotoluene
Concen: 5.149 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 52294

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6

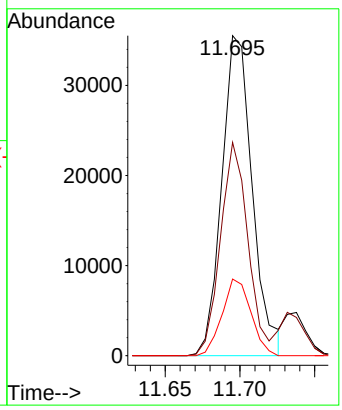




#83
tert-Butylbenzene
Concen: 5.041 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 5035

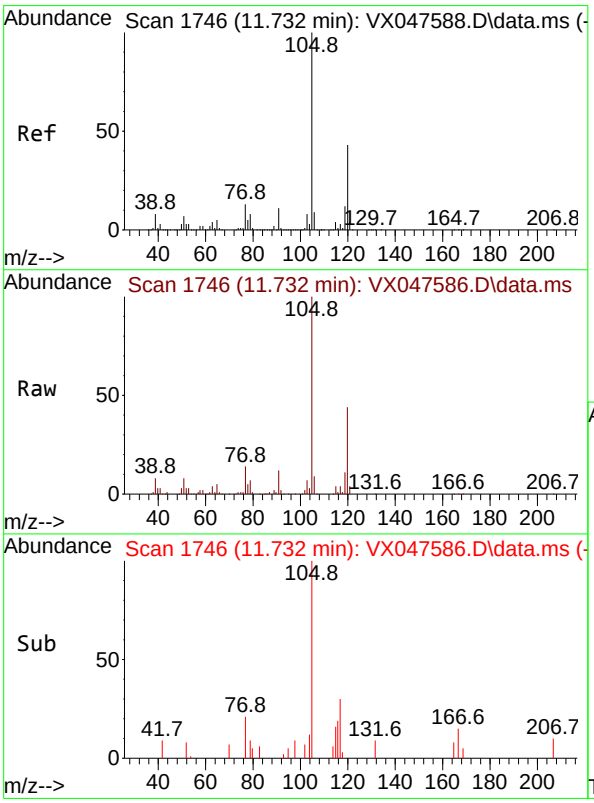
Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.6	88.8
134	22.7	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

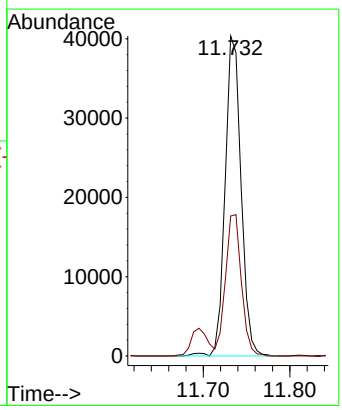
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

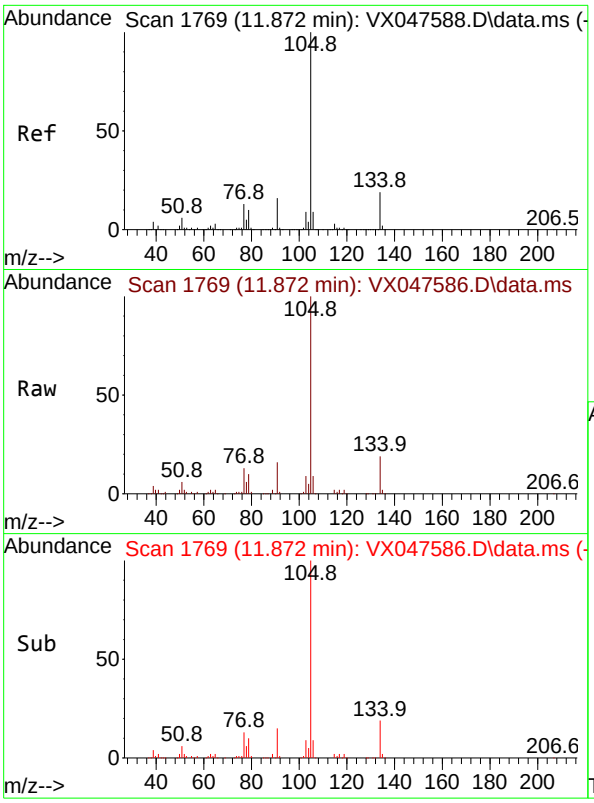


#84
1,2,4-Trimethylbenzene
Concen: 5.214 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 51583

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

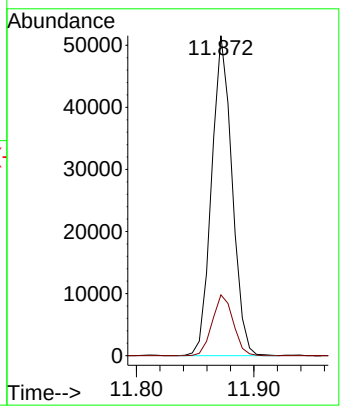




#85
sec-Butylbenzene
Concen: 5.268 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 6250

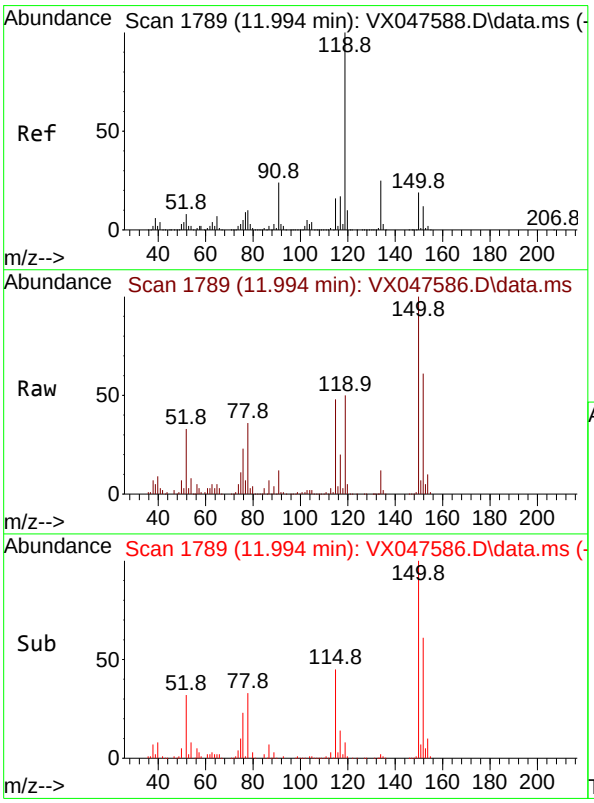
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

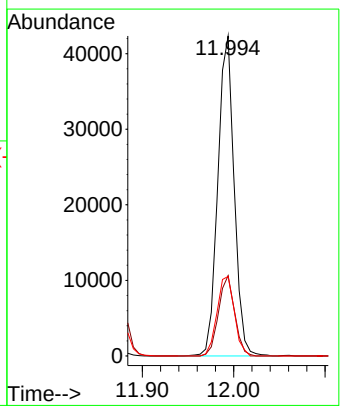
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

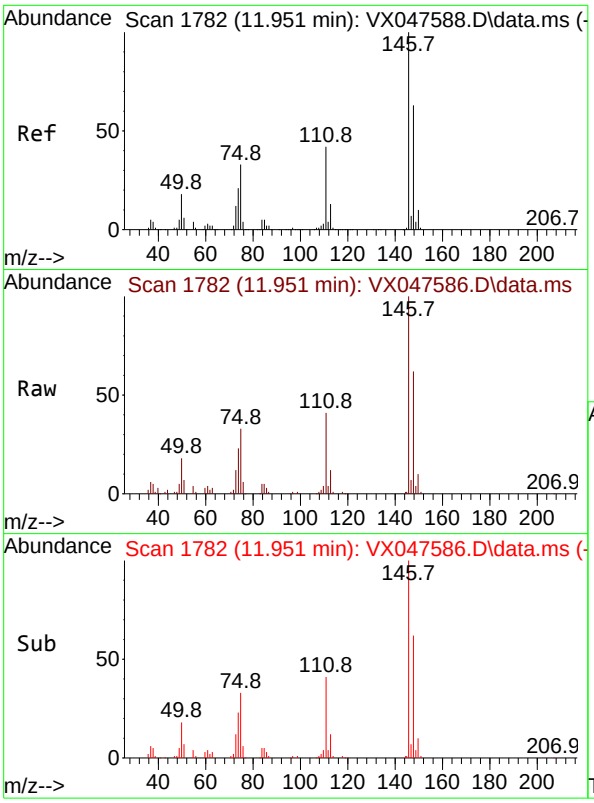


#86
p-Isopropyltoluene
Concen: 5.244 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 52674

Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.6	37.8
91	26.2	12.6	37.6

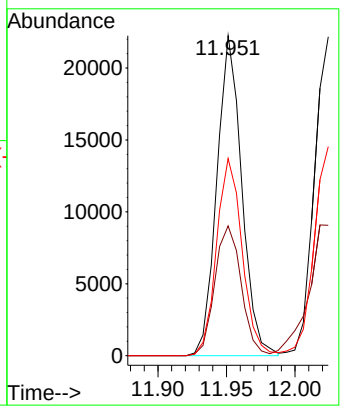




#87
1,3-Dichlorobenzene
Concen: 5.175 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 2811

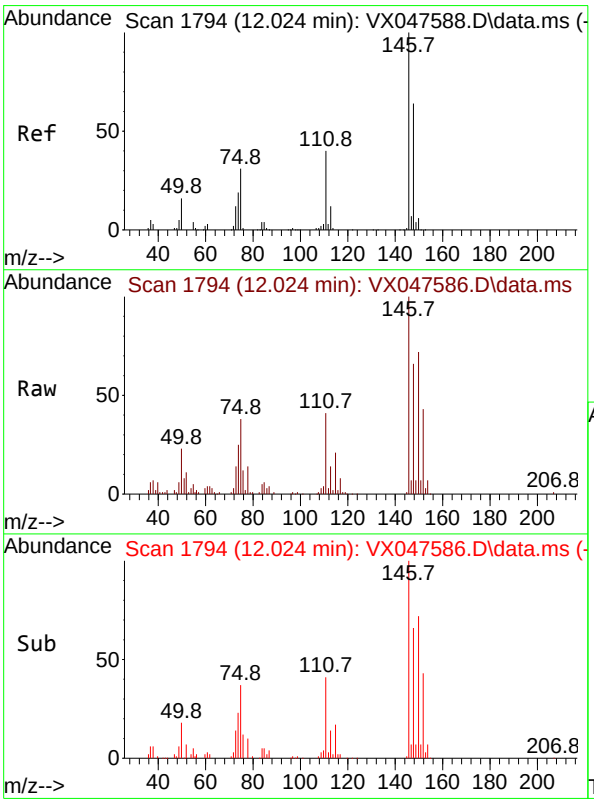
Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	63.4	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

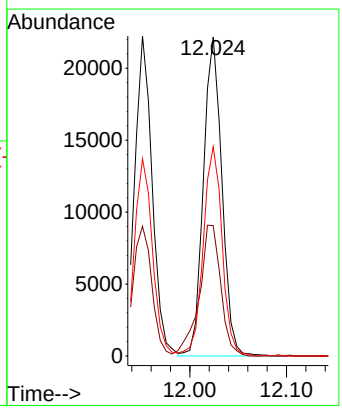
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

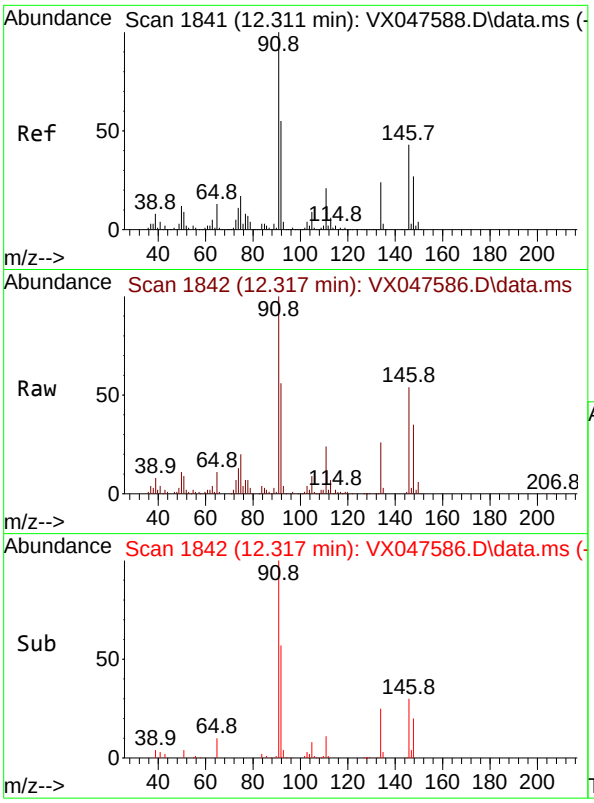


#88
1,4-Dichlorobenzene
Concen: 5.294 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 29519

Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.8	62.4
148	66.9	31.7	95.1

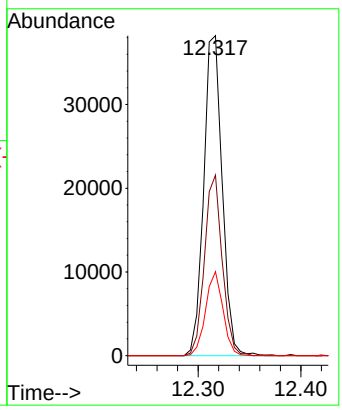




#89
n-Butylbenzene
Concen: 5.159 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 4795

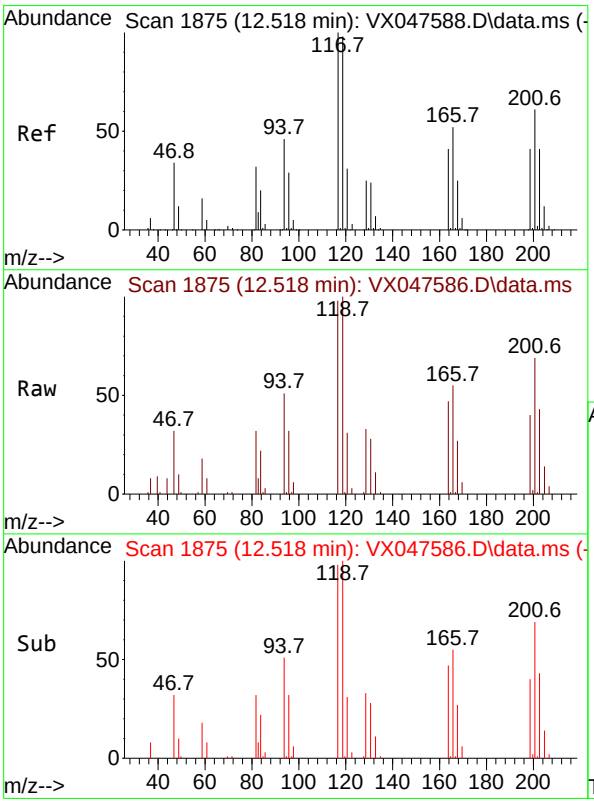
Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.7
134	24.6	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

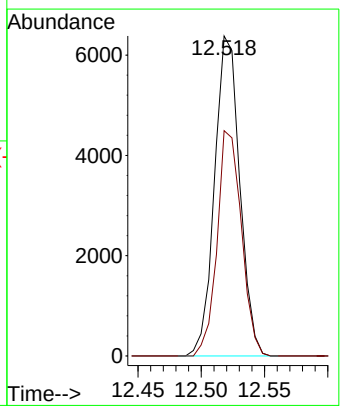
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

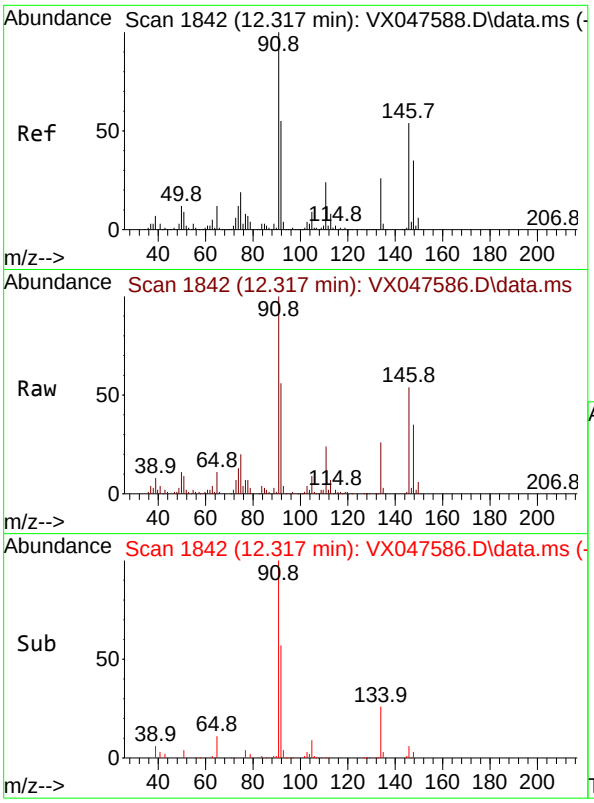


#90
Hexachloroethane
Concen: 5.007 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 8830

Ion	Ratio	Lower	Upper
117	100		
201	67.9	34.2	102.5

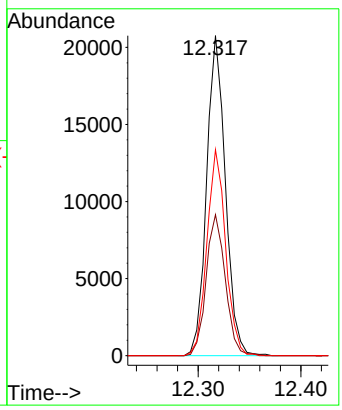




#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 2640

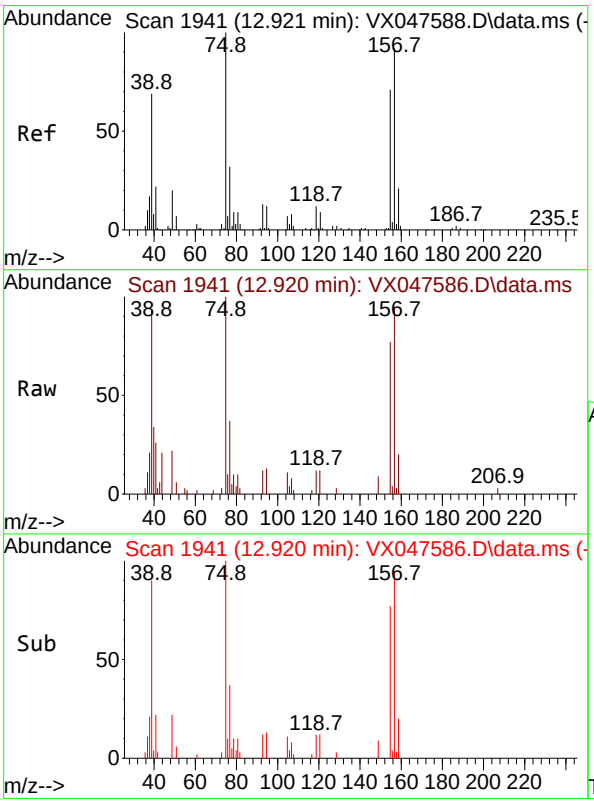
Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.2	66.6
148	64.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

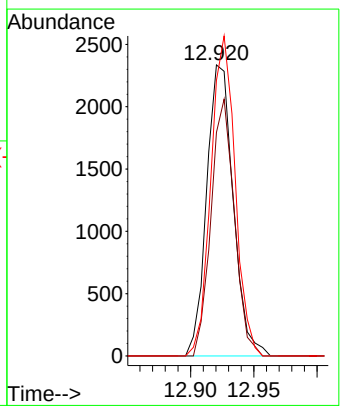
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

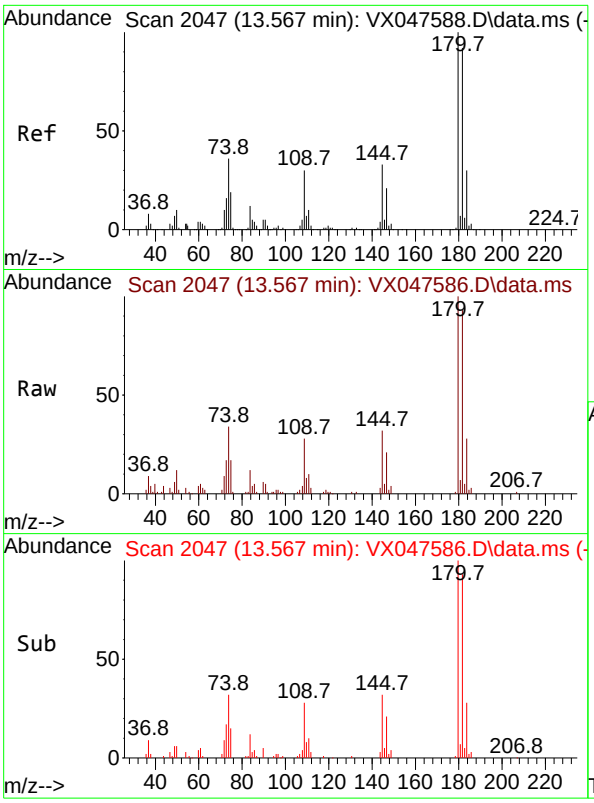


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.690 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 3412

Ion	Ratio	Lower	Upper
75	100		
155	77.4	37.7	113.1
157	100.1	49.8	149.4

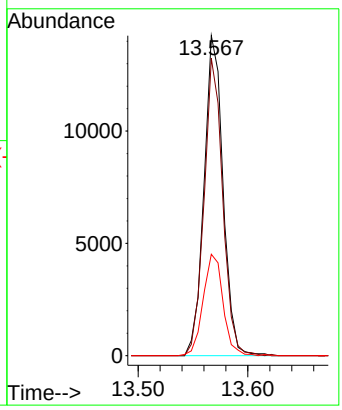




#93
1,2,4-Trichlorobenzene
Concen: 5.103 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 1716

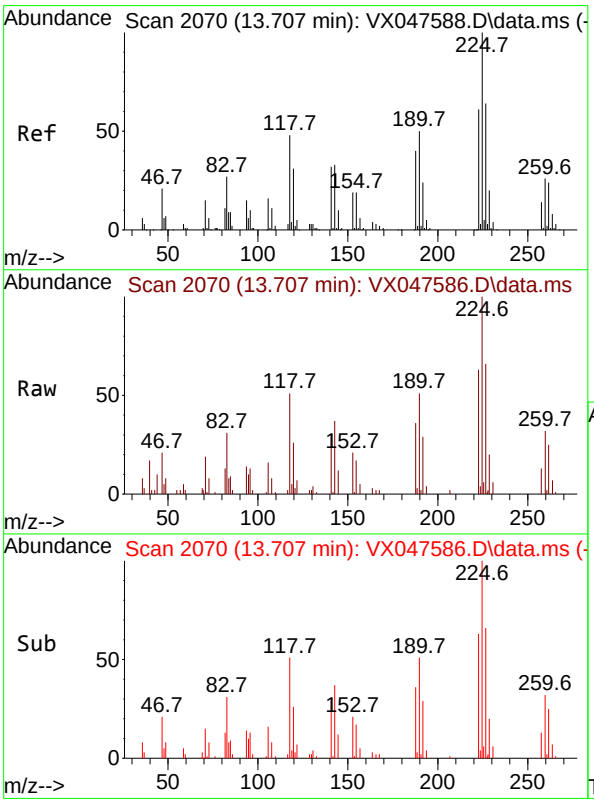
Ion	Ratio	Lower	Upper
180	100		
182	91.2	46.6	139.8
145	33.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

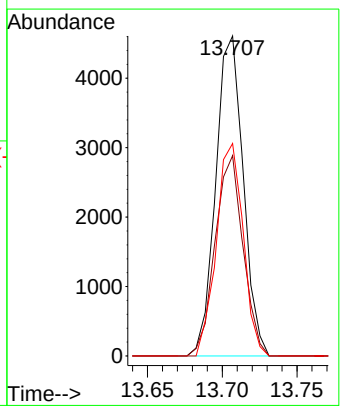
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

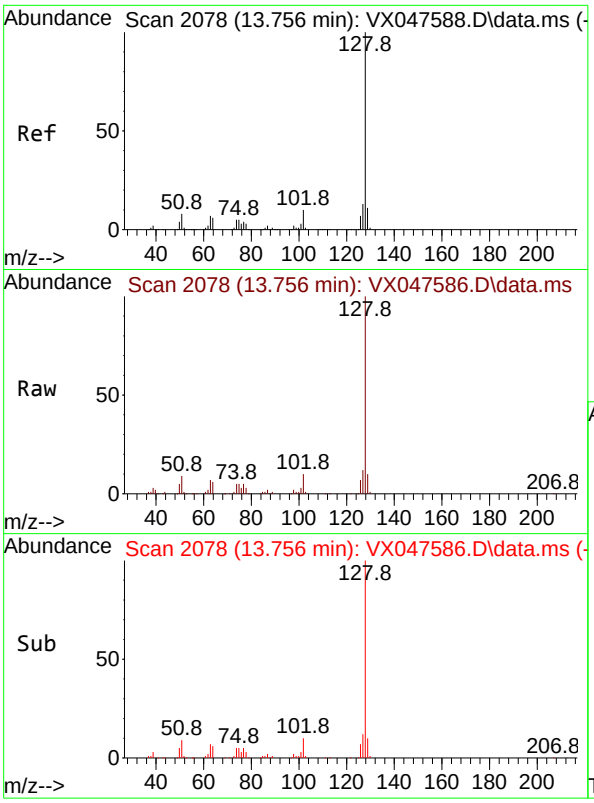


#94
Hexachlorobutadiene
Concen: 5.158 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:225 Resp: 5894

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	64.7	32.0	96.0

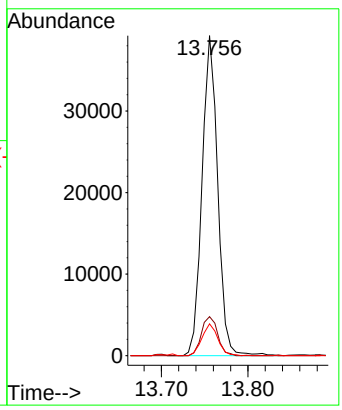




#95
Naphthalene
Concen: 4.808 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:128 Resp: 4925

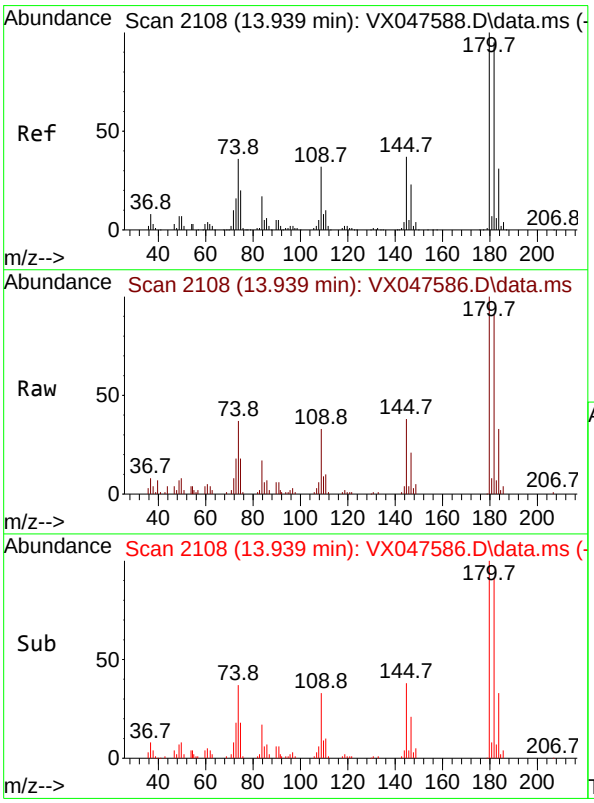
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.1	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

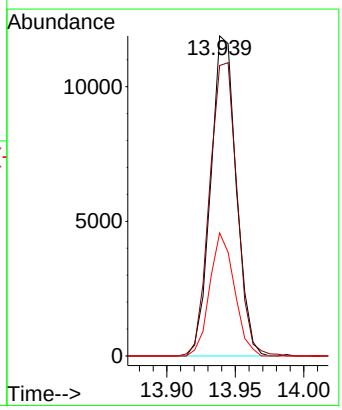
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.921 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 15400

Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.6	142.8
145	37.1	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 32.520%#			
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 31.740%#			
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 32.520%#			
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 32.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l		99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l		99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l		100
44) Trichloroethene	7.110	130	51369	21.228	ug/l		97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l		97
46) Dibromomethane	7.568	93	38910	20.862	ug/l		99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l		98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l		98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l		95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l		100
52) Toluene	8.708	92	129193	20.950	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l		99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l		98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l		99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l		100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l		99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l		99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l		99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l		95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l		99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l		98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l		100
69) o-Xylene	10.628	106	87651	20.799	ug/l		98
70) Styrene	10.640	104	154077	20.866	ug/l		99
71) Bromoform	10.780	173	35922	20.550	ug/l	#	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l		99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l		99
76) 1,2,3-Trichloropropane	11.225	75	60797m	20.680	ug/l		
77) Bromobenzene	11.183	156	56161	21.183	ug/l		99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l		100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l		96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l		100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l		100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l		98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l		100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l		99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l		99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l		96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l		98
95) Naphthalene	13.756	128	193134	20.801	ug/l		99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

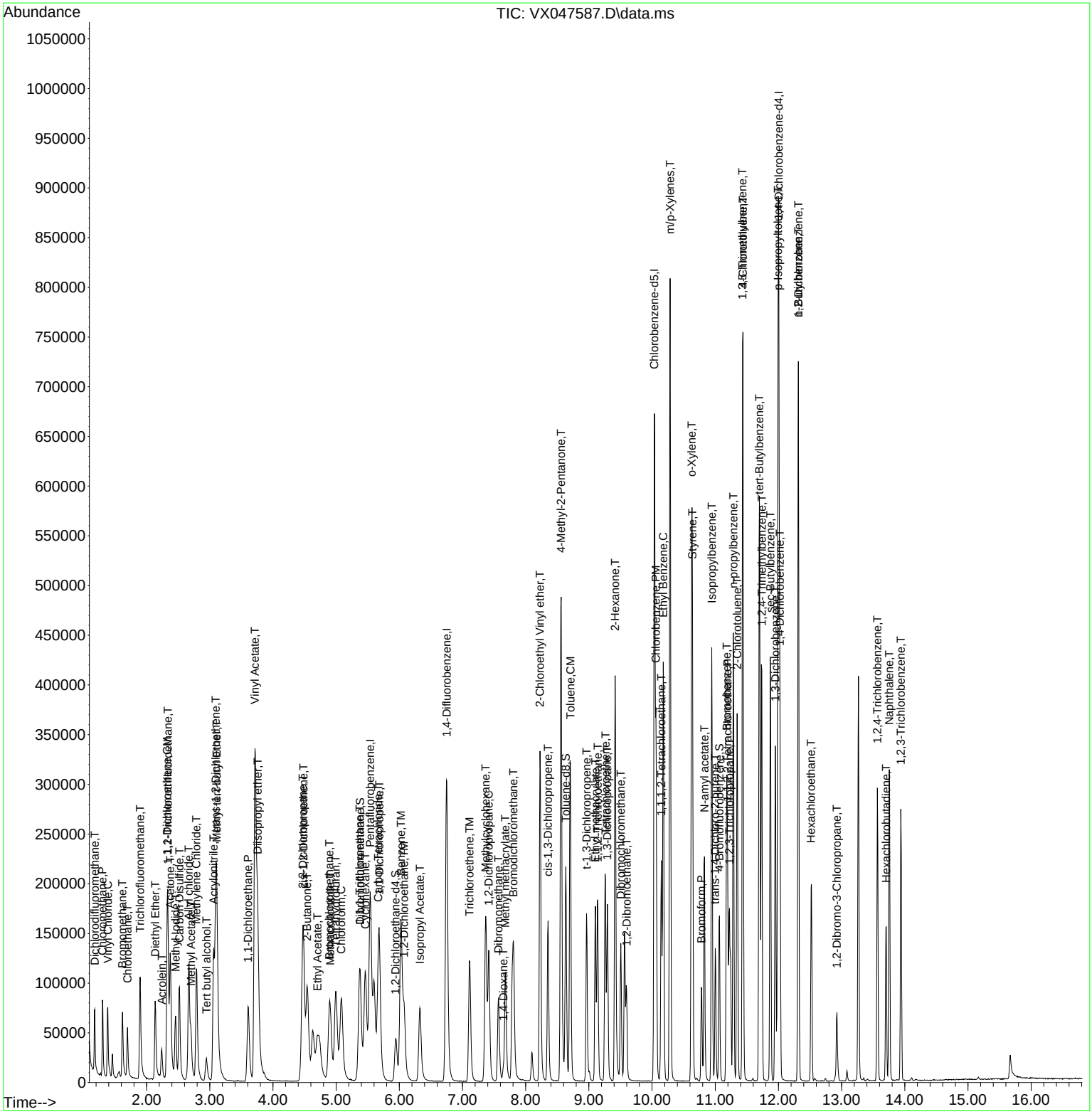
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

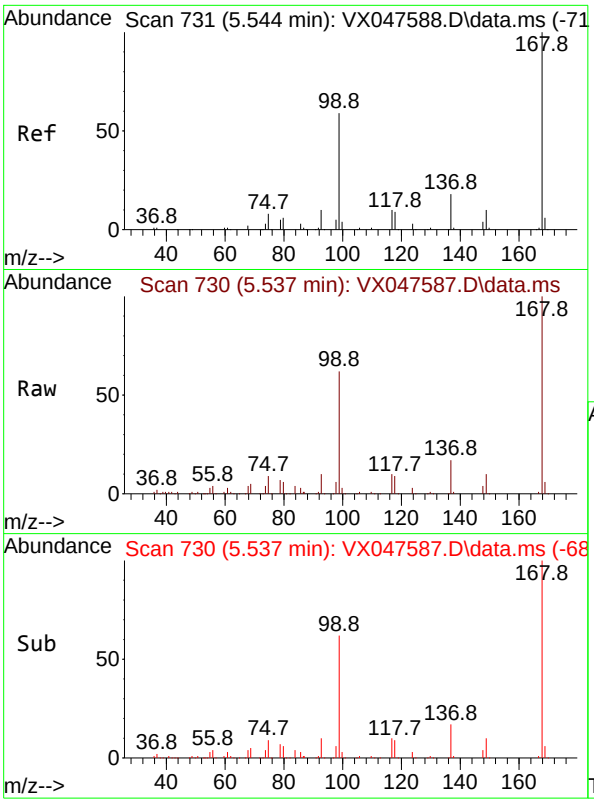
Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

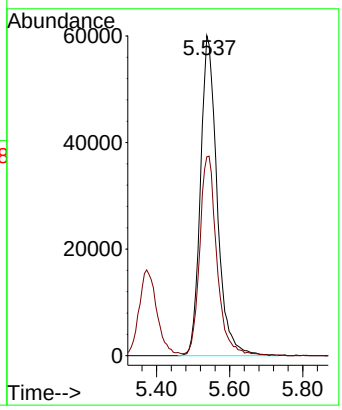




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:168 Resp: 18955

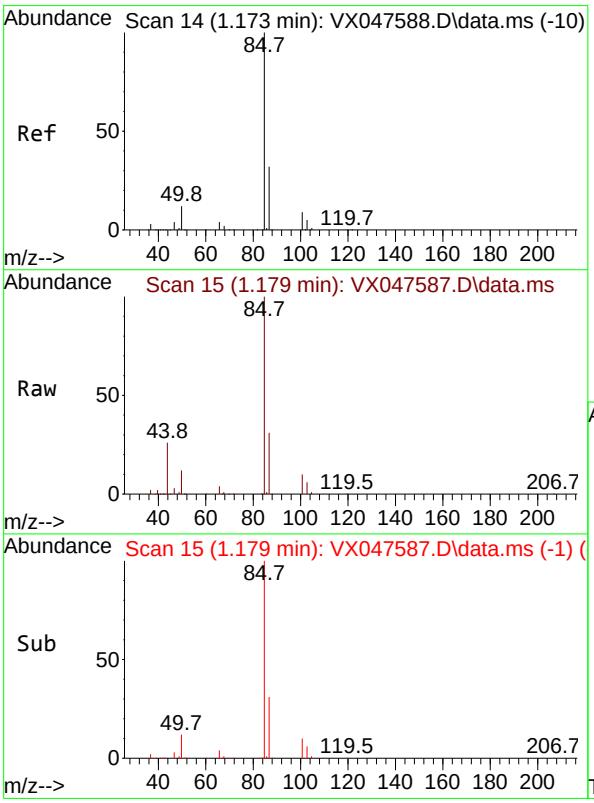
Ion	Ratio	Lower	Upper
168	100		
99	61.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

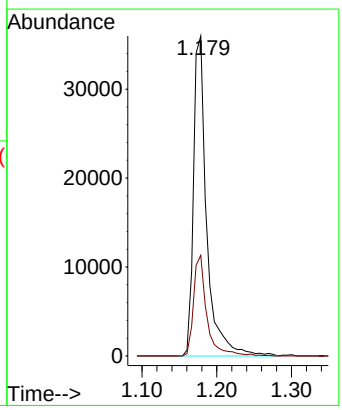
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

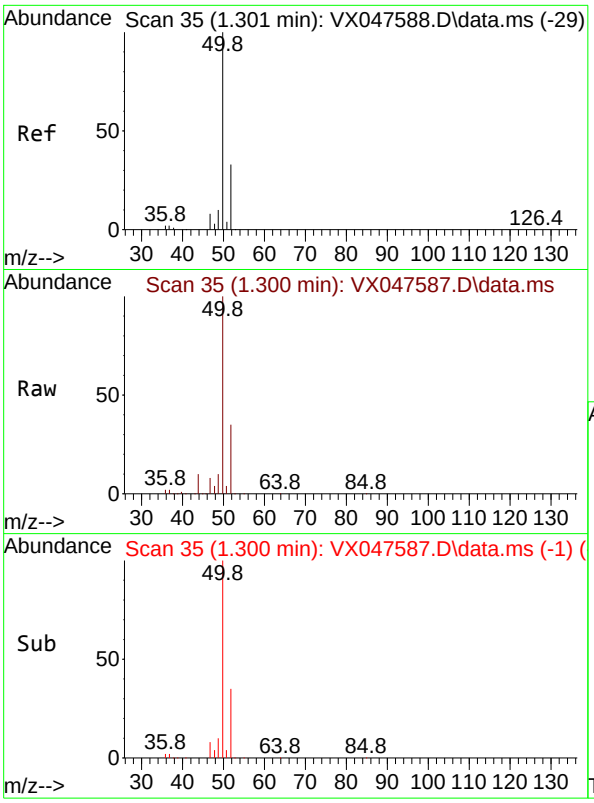


#2
Dichlorodifluoromethane
Concen: 22.480 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 85 Resp: 44126

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

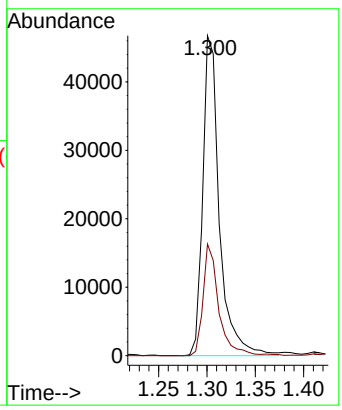




#3
Chloromethane
Concen: 21.716 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 50 Resp: 5602

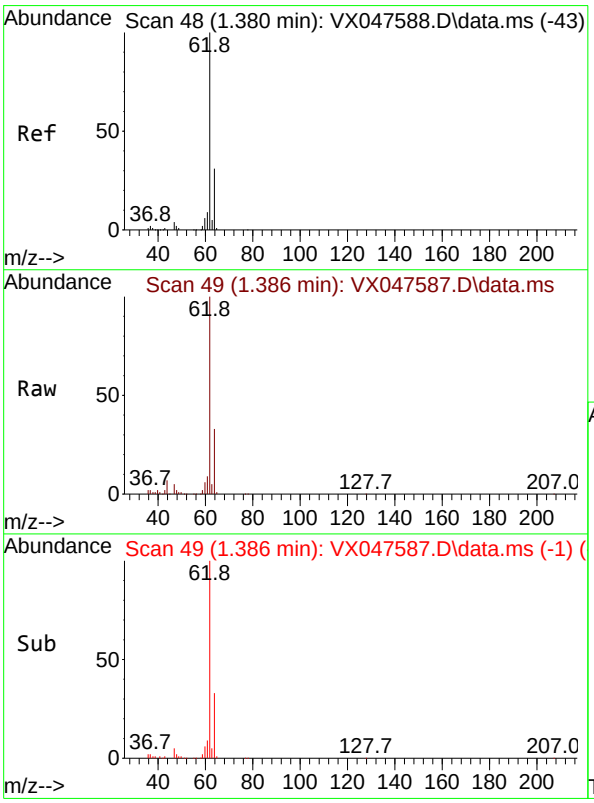
Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

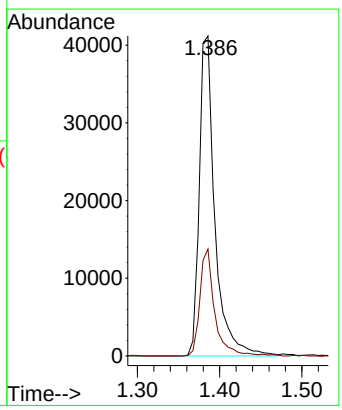
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

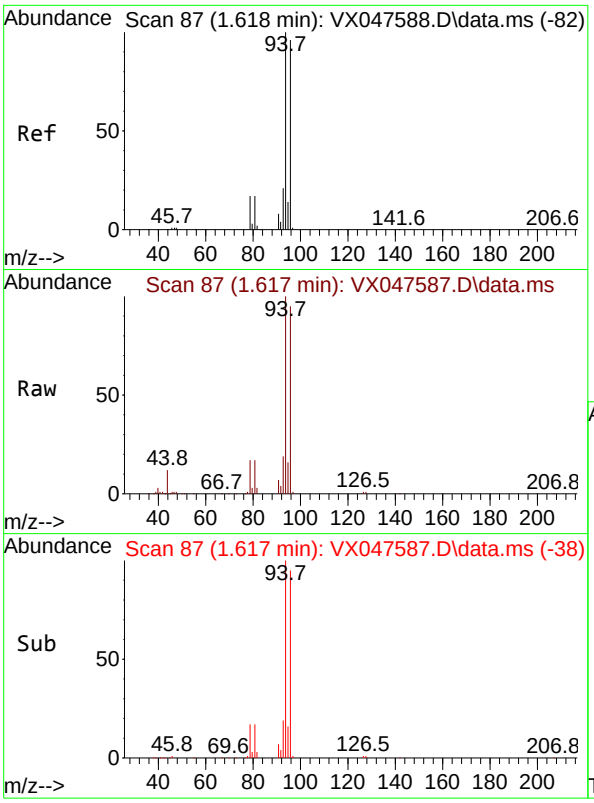


#4
Vinyl Chloride
Concen: 21.485 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 54256

Ion	Ratio	Lower	Upper
62	100		
64	33.4	24.9	37.3

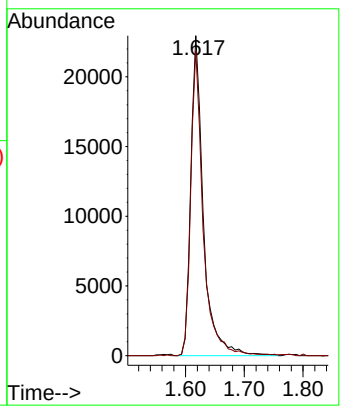




#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 94 Resp: 3419

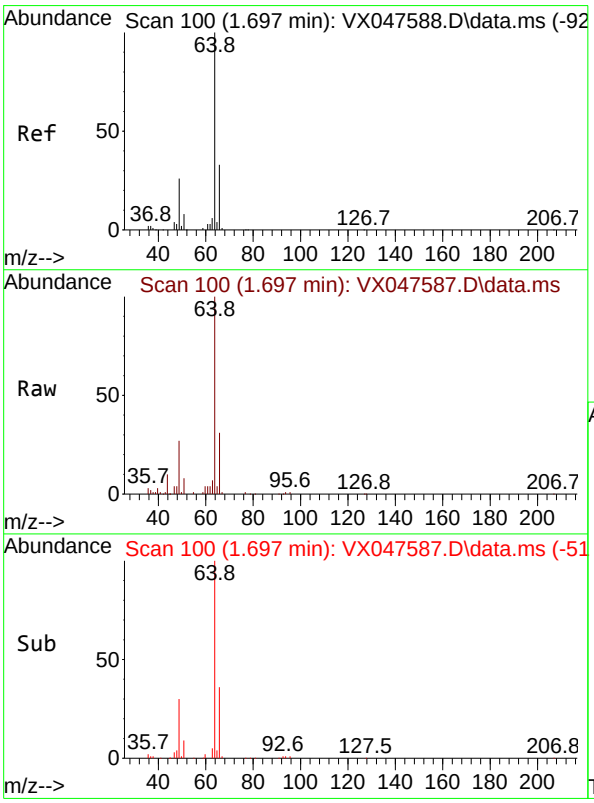
Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

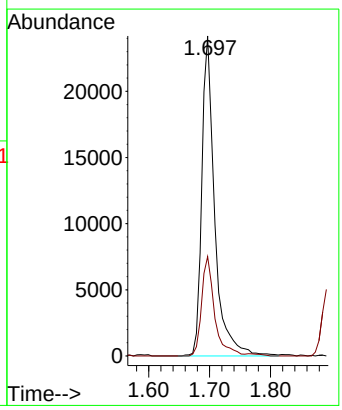
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

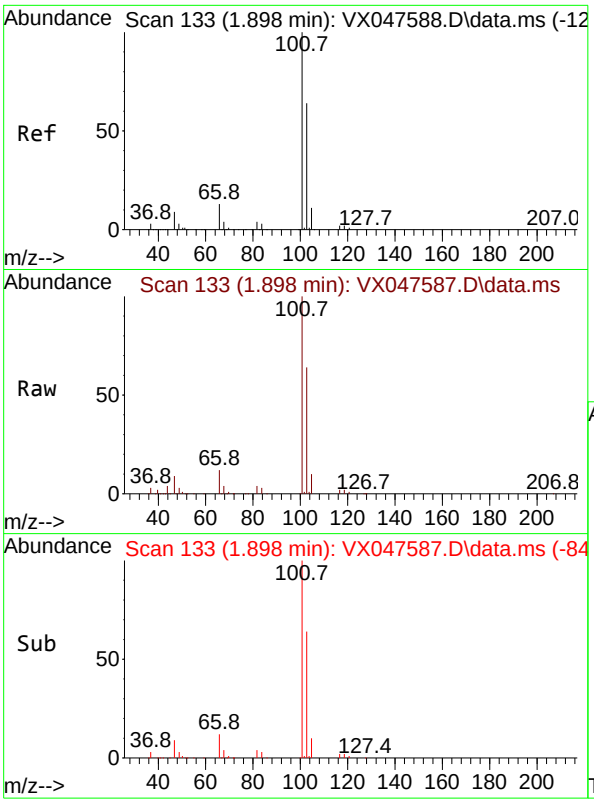


#6
Chloroethane
Concen: 21.063 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 64 Resp: 35551

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1

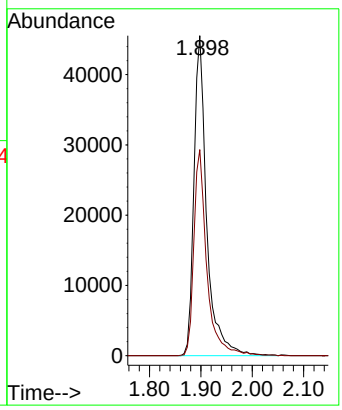




#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:101 Resp: 7866

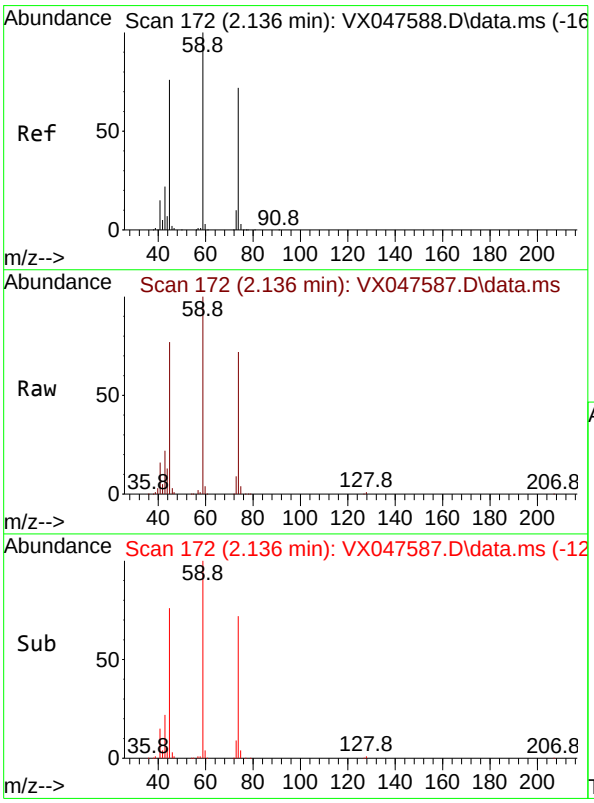
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

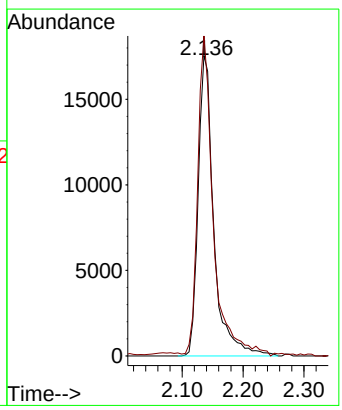
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

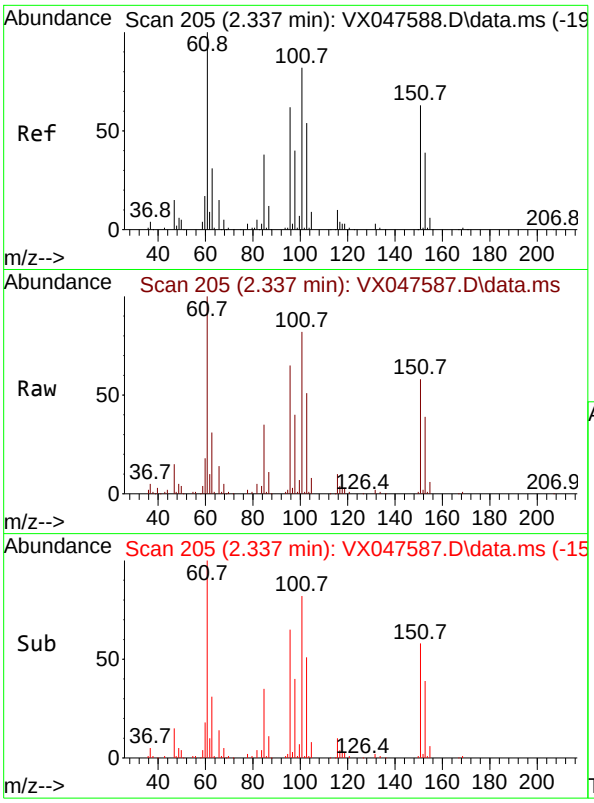


#8
Diethyl Ether
Concen: 20.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 74 Resp: 31335

Ion	Ratio	Lower	Upper
74	100		
45	107.0	52.3	156.8

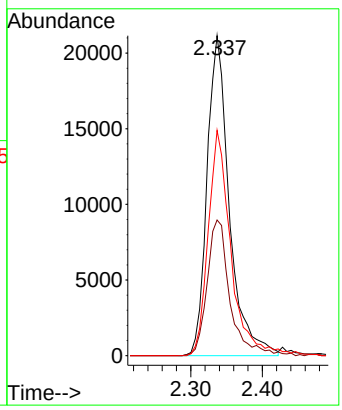




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.859 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:101 Resp: 4573

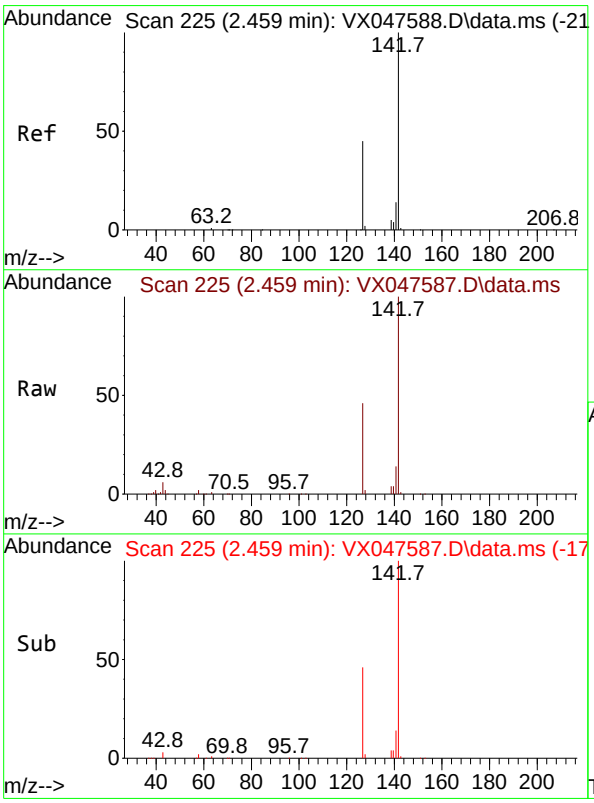
Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	72.1	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

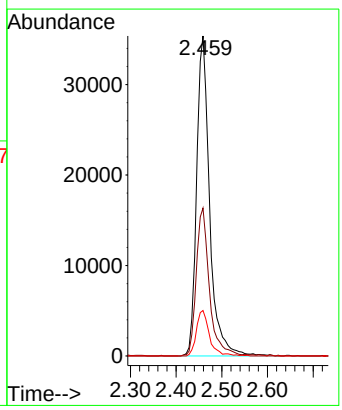
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

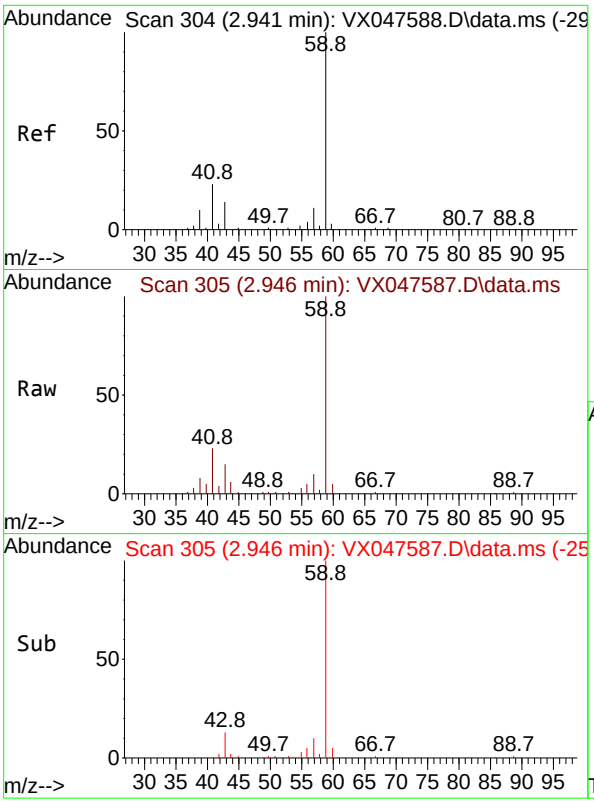


#10
Methyl Iodide
Concen: 20.452 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:142 Resp: 69935

Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.3	11.4	17.0

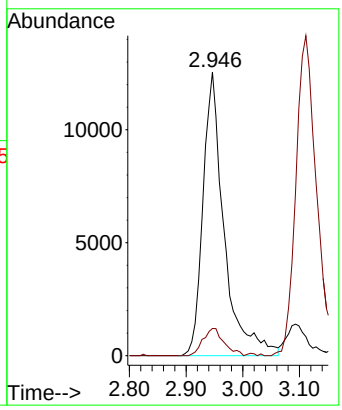




#11
Tert butyl alcohol
Concen: 96.582 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 59 Resp: 3245

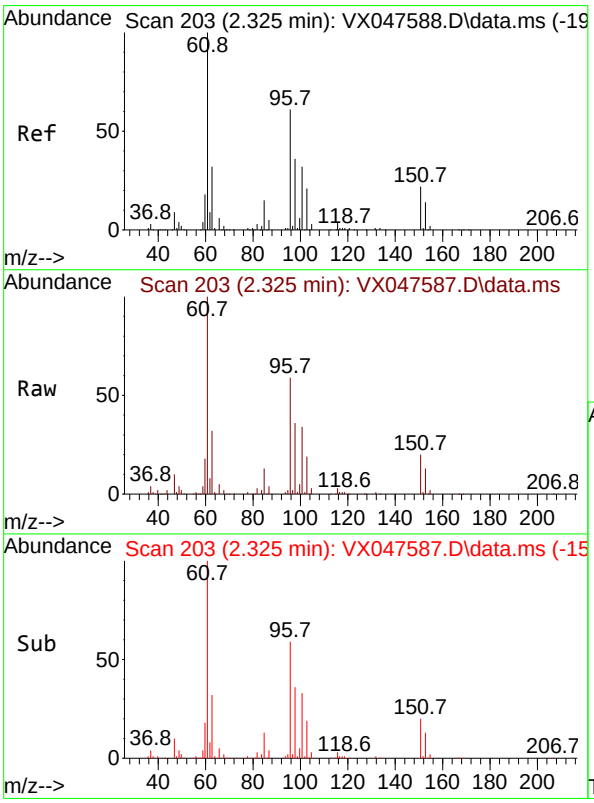
Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

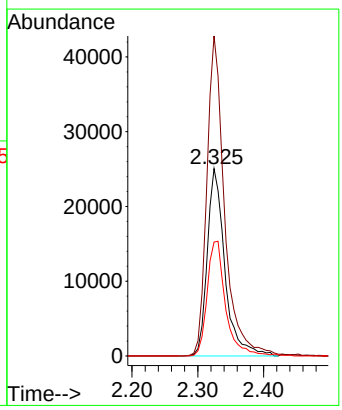
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

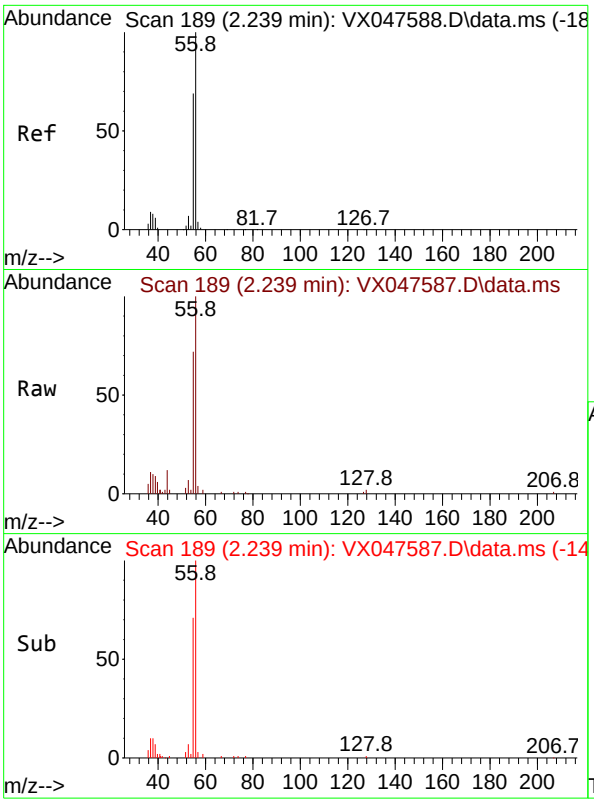


#12
1,1-Dichloroethene
Concen: 20.808 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 46863

Ion	Ratio	Lower	Upper
96	100		
61	170.7	131.0	196.6
98	60.8	47.7	71.5

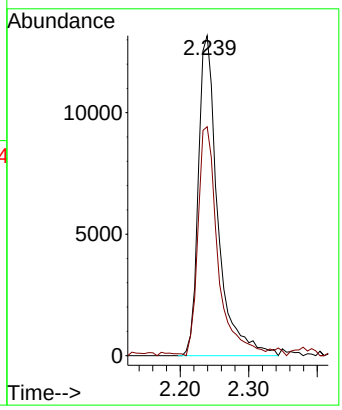




#13
Acrolein
Concen: 84.473 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 56 Resp: 2615

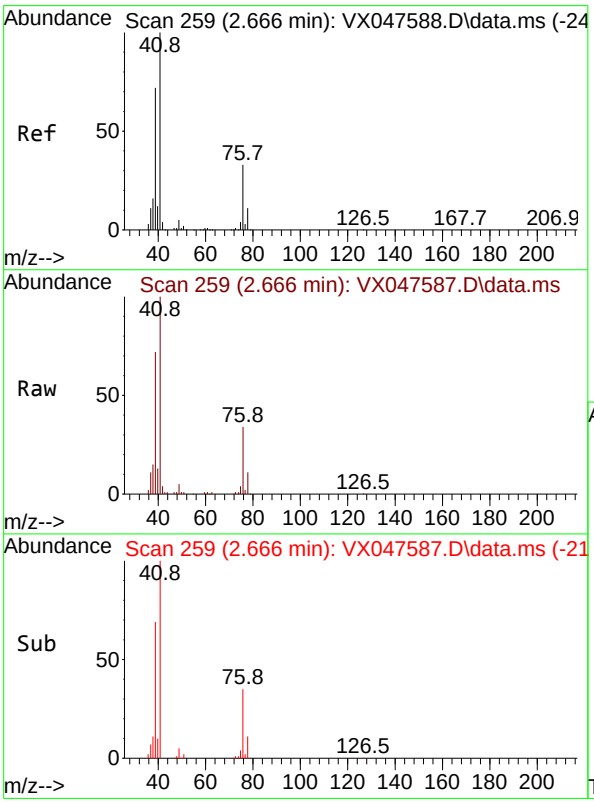
Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

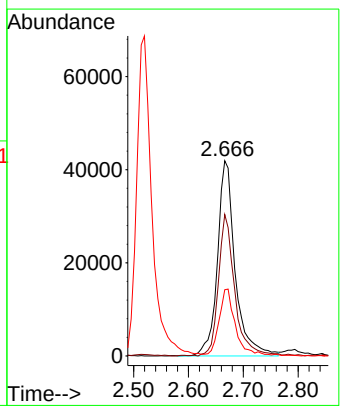
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

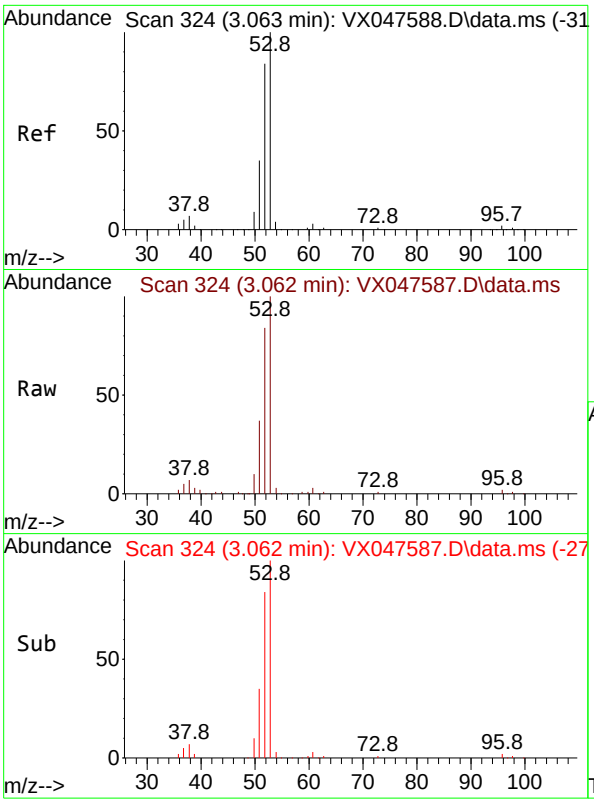


#14
Allyl chloride
Concen: 20.379 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 94710

Ion	Ratio	Lower	Upper
41	100		
39	65.5	54.7	82.1
76	30.3	25.7	38.5

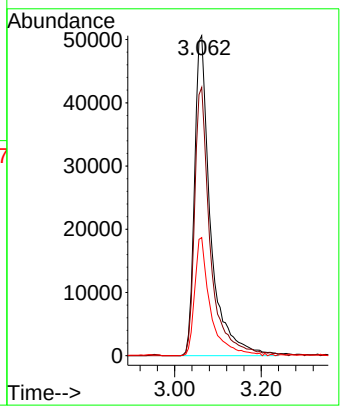




#15
Acrylonitrile
Concen: 104.554 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 53 Resp: 13014

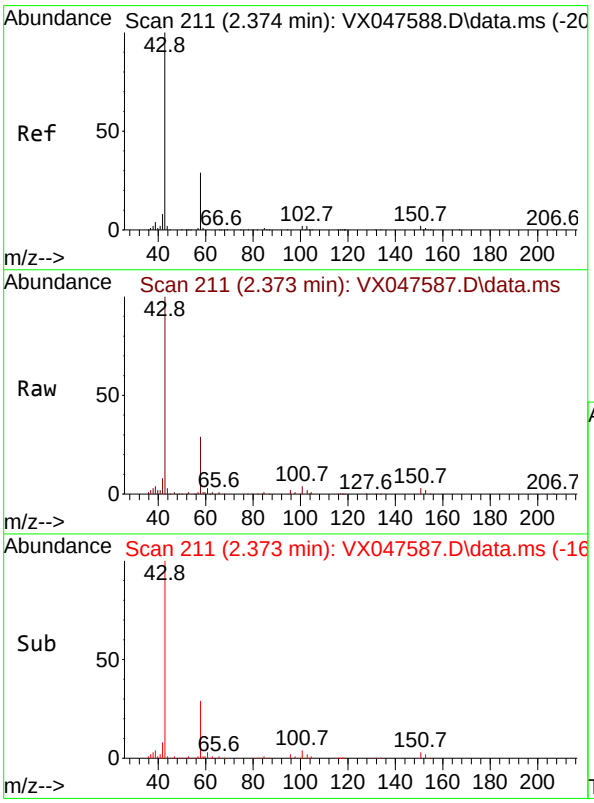
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

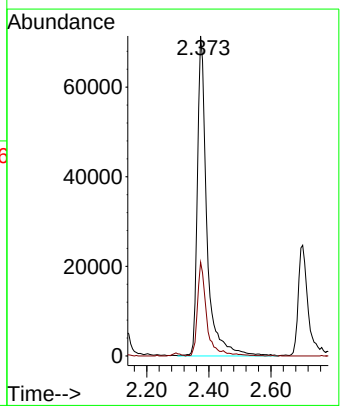
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

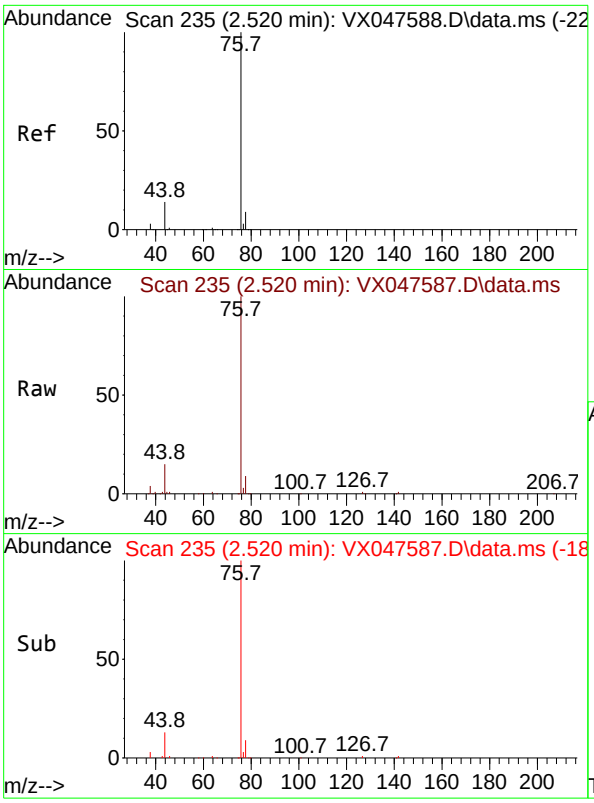


#16
Acetone
Concen: 115.507 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 151538

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.4	35.0

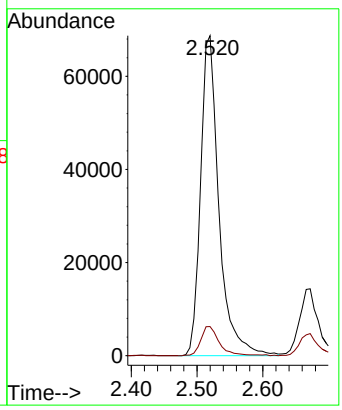




#17
Carbon Disulfide
Concen: 21.620 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 76 Resp: 13329

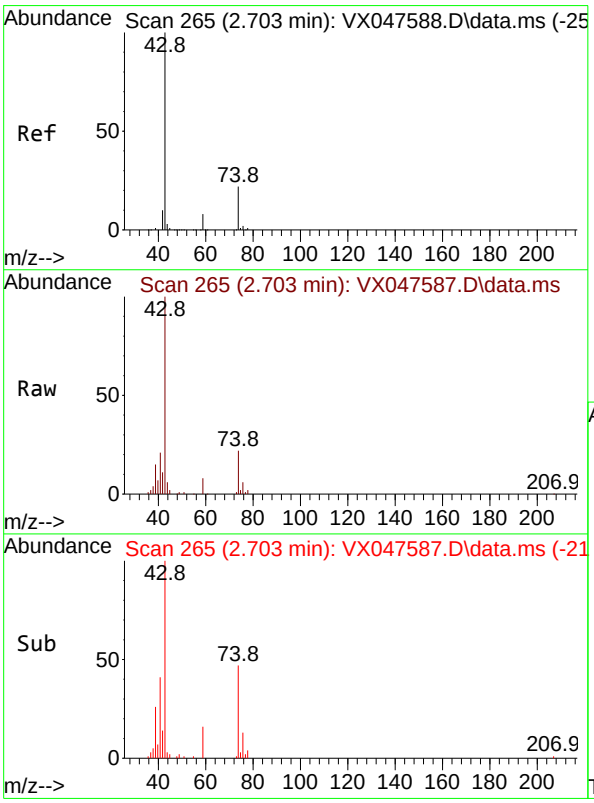
Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

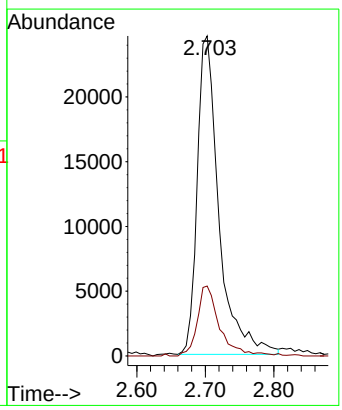
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

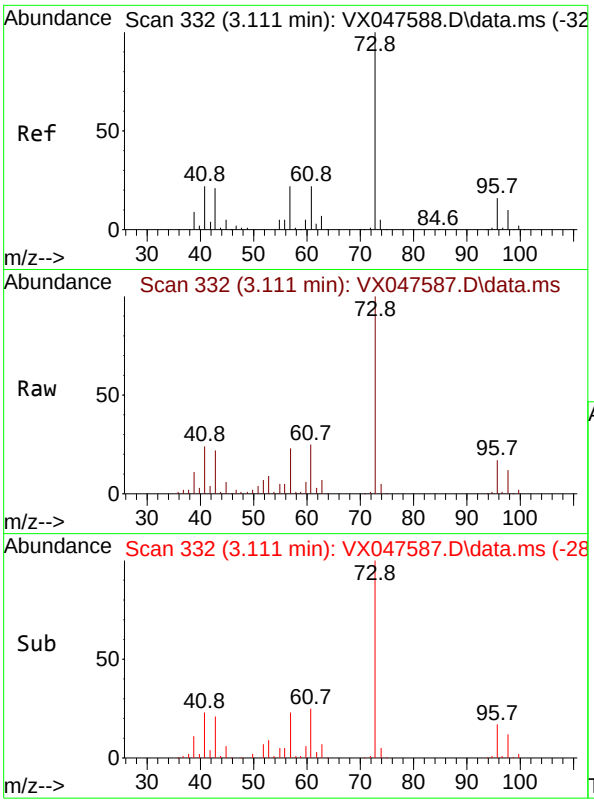


#18
Methyl Acetate
Concen: 18.536 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 54120

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

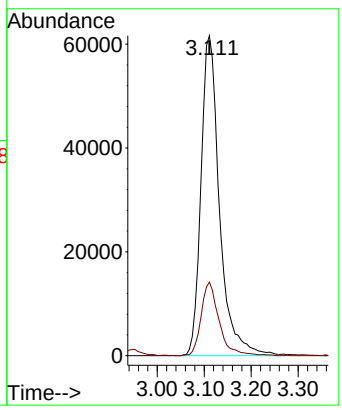




#19
Methyl tert-butyl Ether
Concen: 20.486 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 73 Resp: 16842

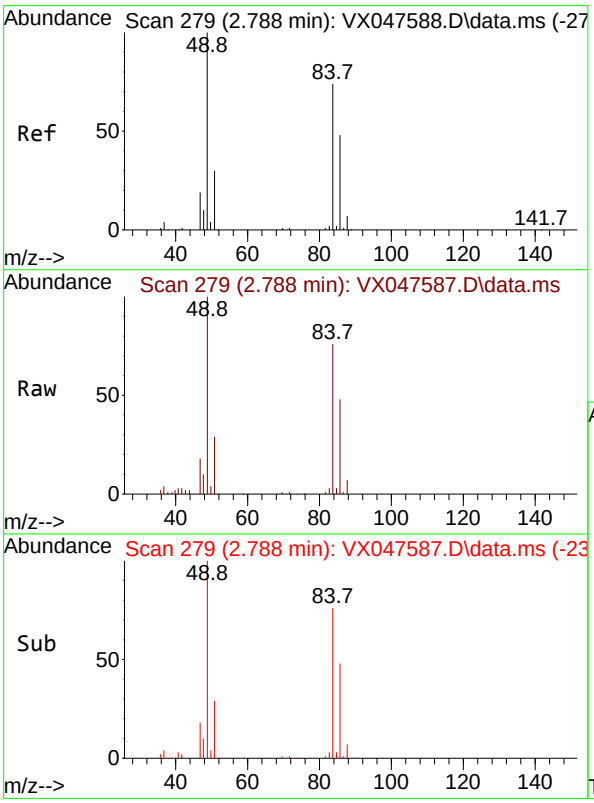
Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

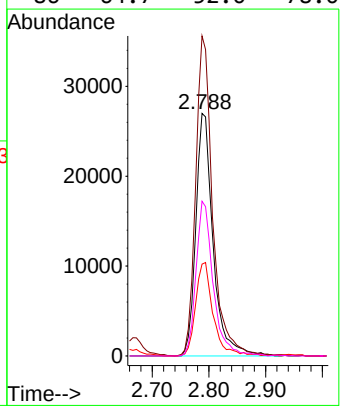
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

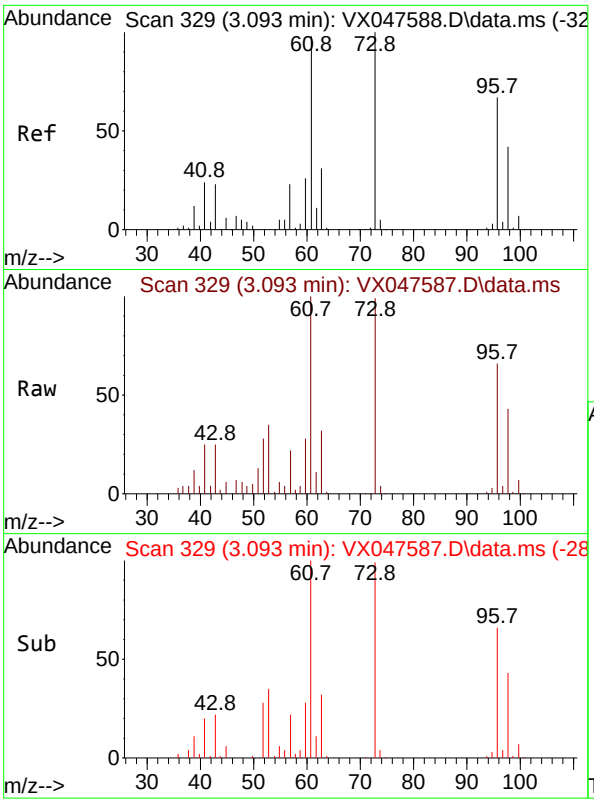


#20
Methylene Chloride
Concen: 20.581 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 84 Resp: 57153

Ion	Ratio	Lower	Upper
84	100		
49	131.7	108.6	162.8
51	37.9	32.6	48.8
86	64.7	52.0	78.0

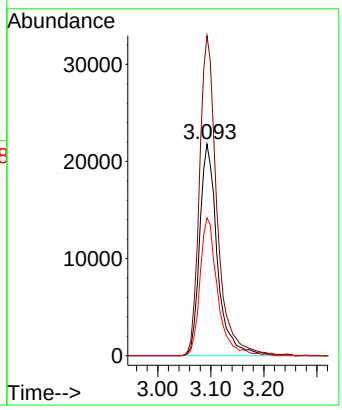




#21
trans-1,2-Dichloroethene
Concen: 20.791 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 5041

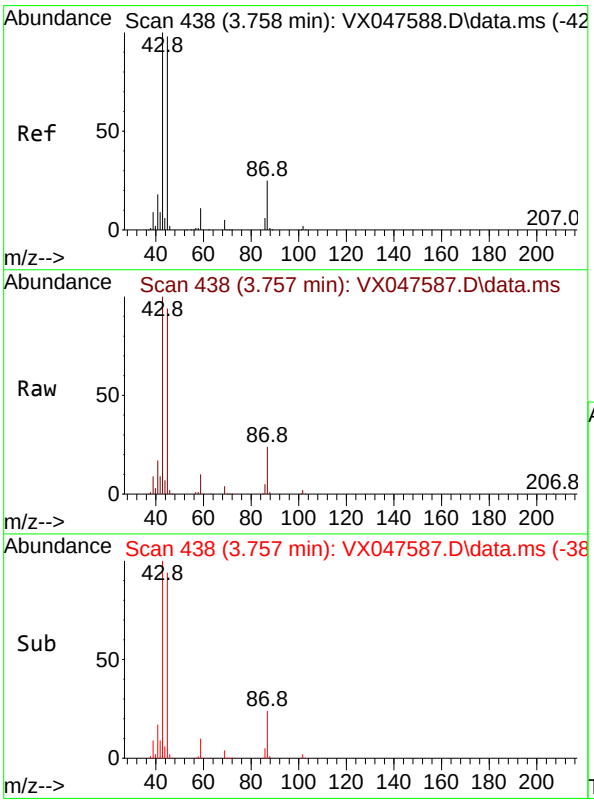
Ion	Ratio	Lower	Upper
96	100		
61	151.3	116.2	174.2
98	67.2	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

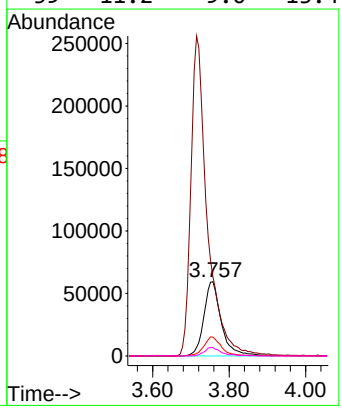
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

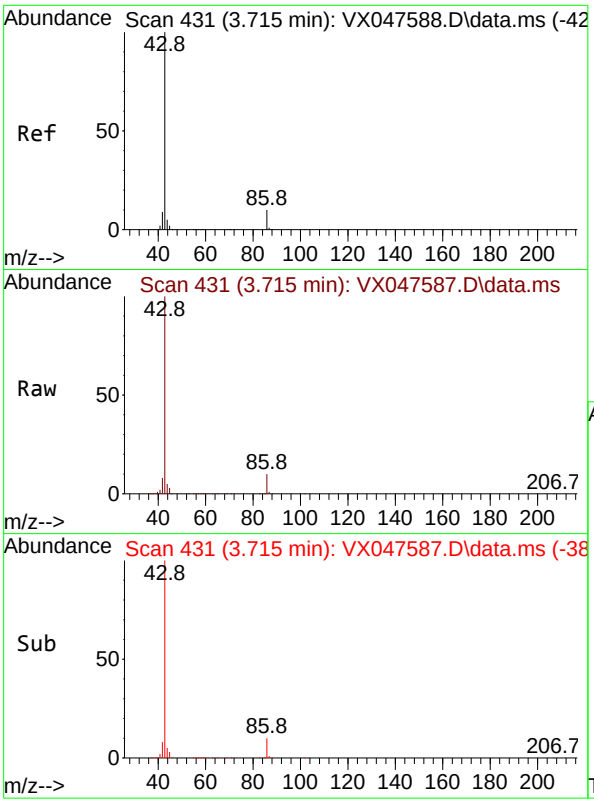


#22
Diisopropyl ether
Concen: 20.940 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 45 Resp: 188598

Ion	Ratio	Lower	Upper
45	100		
43	106.1	81.0	121.4
87	25.5	20.3	30.5
59	11.2	9.0	13.4





#23
Vinyl Acetate
Concen: 106.218 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

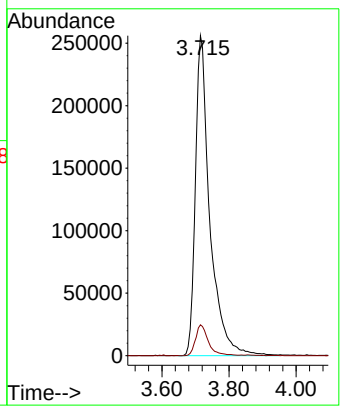
Tgt Ion: 43 Resp: 76567

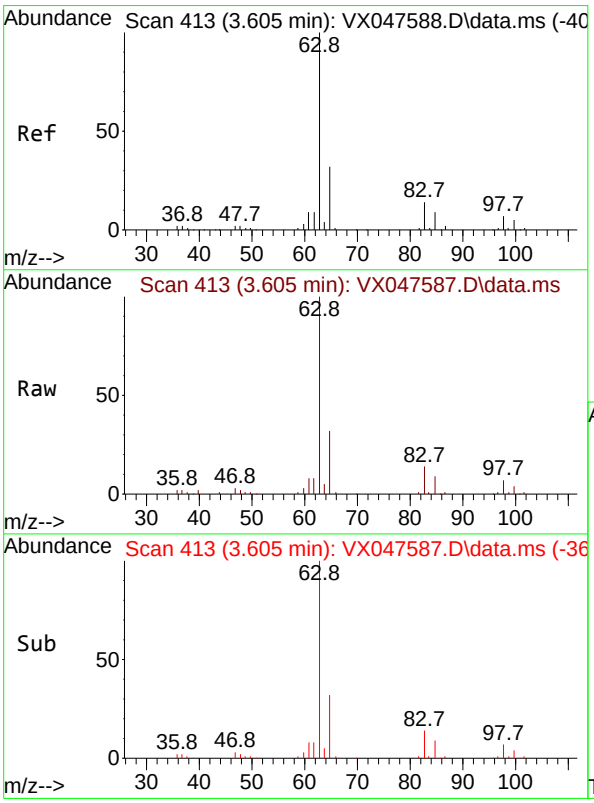
Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

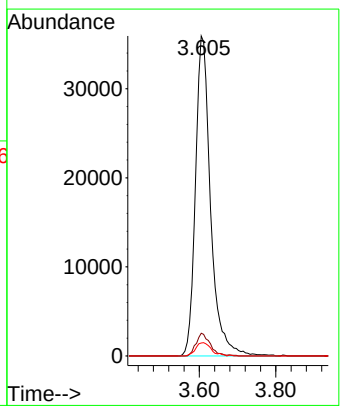


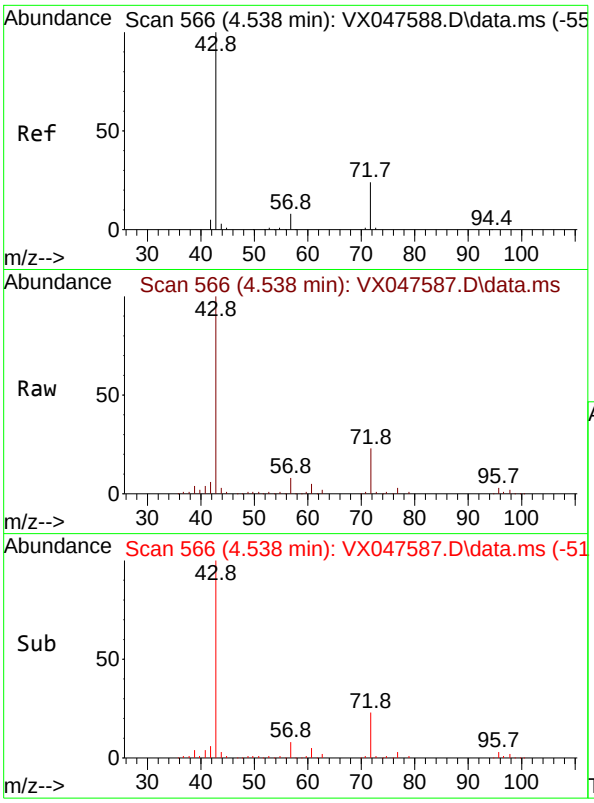


#24
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 98509

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.1	2.3	6.9





#25
2-Butanone
Concen: 109.679 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

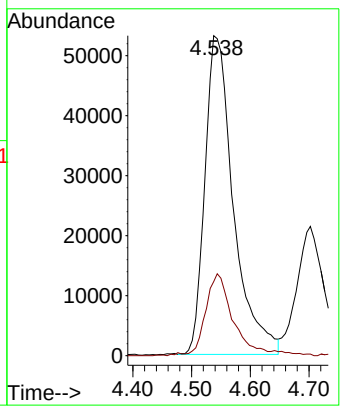
Tgt Ion: 43 Resp: 17948

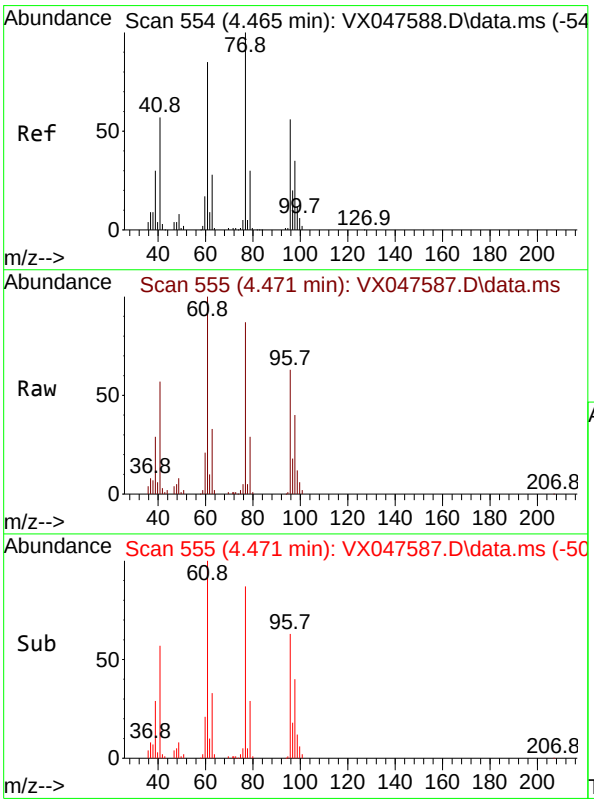
Ion	Ratio	Lower	Upper
43	100		
72	22.3	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

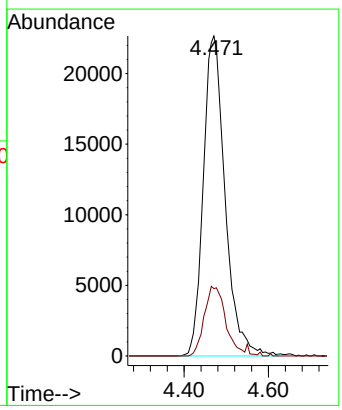


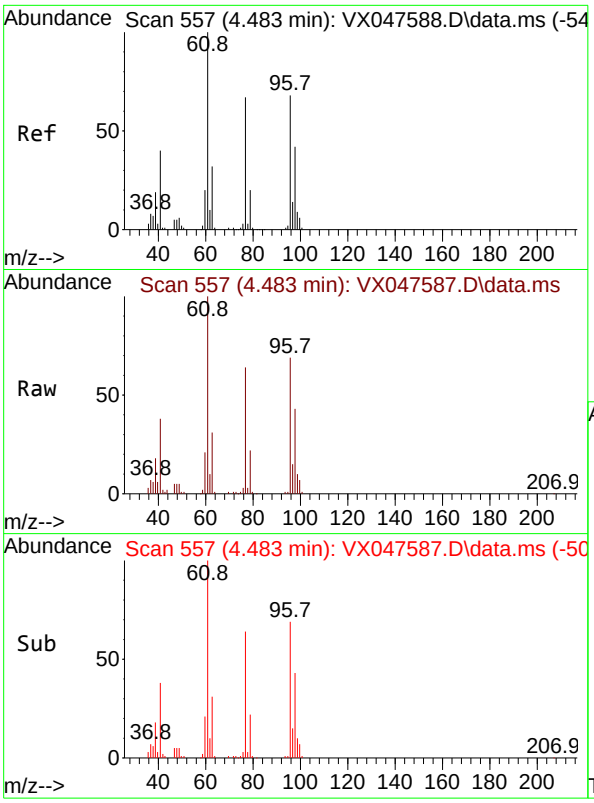


#26
2,2-Dichloropropane
Concen: 20.459 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 77 Resp: 81413

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.9	32.7

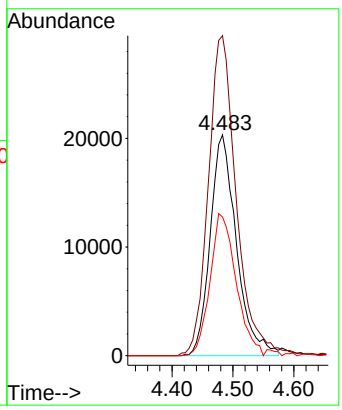




#27
cis-1,2-Dichloroethene
Concen: 20.497 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 6086

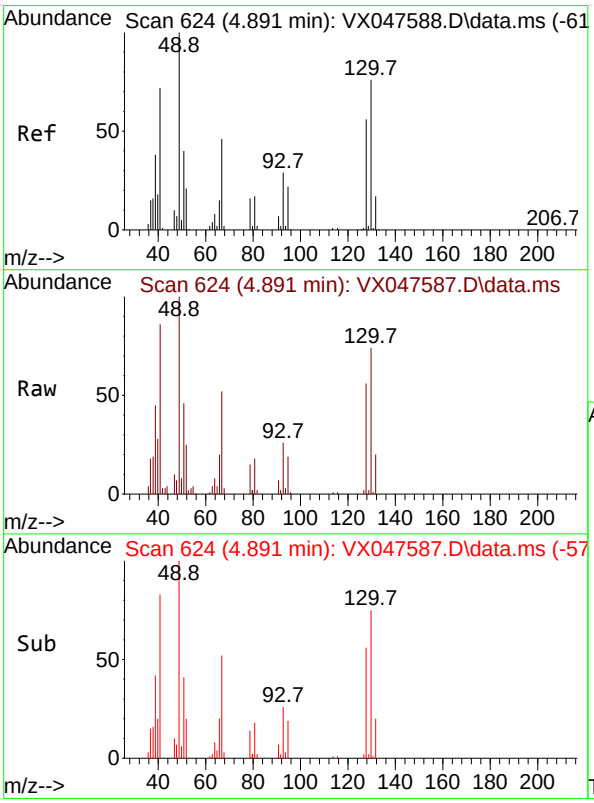
Ion	Ratio	Lower	Upper
96	100		
61	154.8	0.0	303.2
98	63.7	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

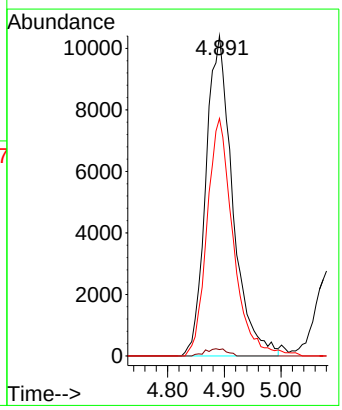
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

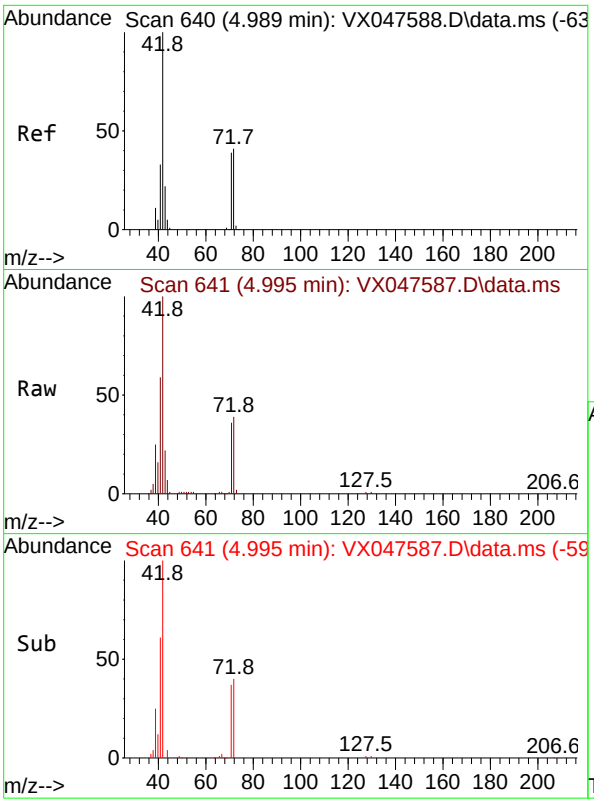


#28
Bromochloromethane
Concen: 16.309 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 49 Resp: 34085

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.7	57.8	86.8





#29
Tetrahydrofuran
Concen: 104.560 ug/l
RT: 4.995 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

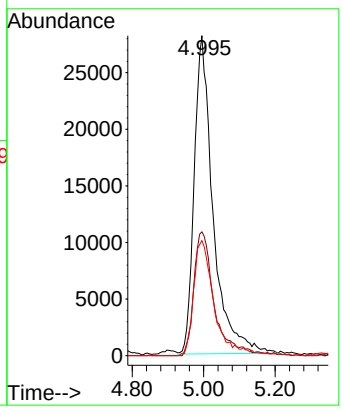
Tgt Ion: 42 Resp: 10293

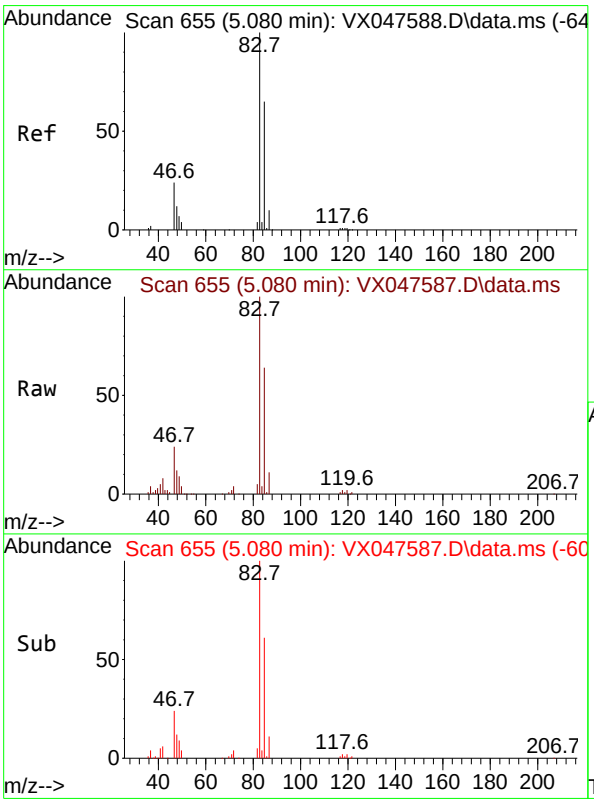
Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	37.8	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

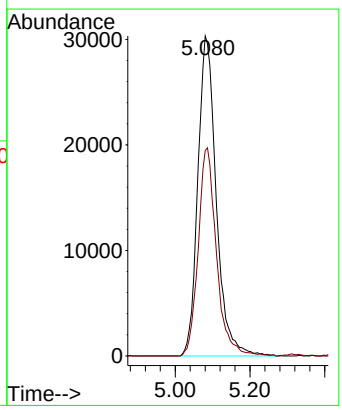


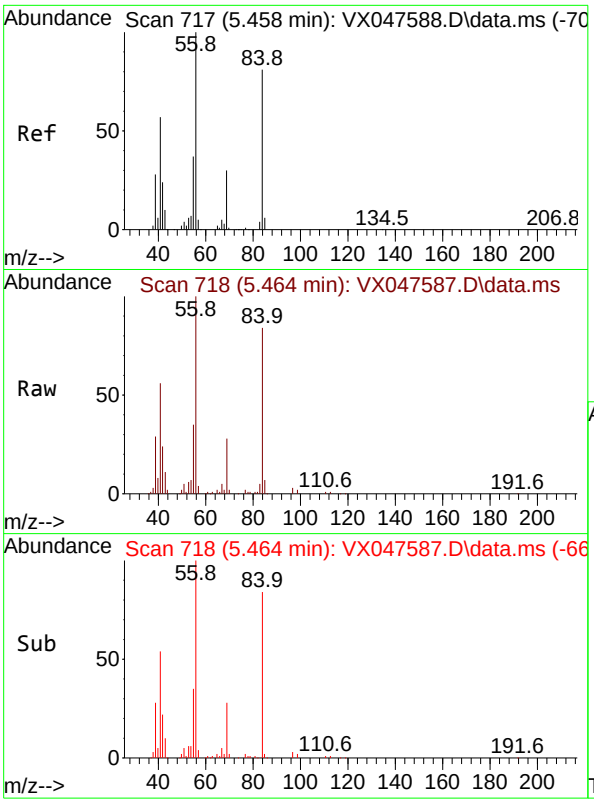


#30
Chloroform
Concen: 21.413 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 103586

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6





#31
Cyclohexane
Concen: 20.759 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

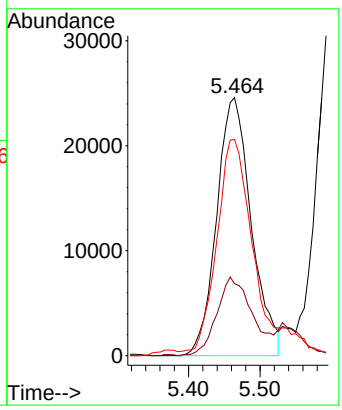
Tgt Ion: 56 Resp: 8277

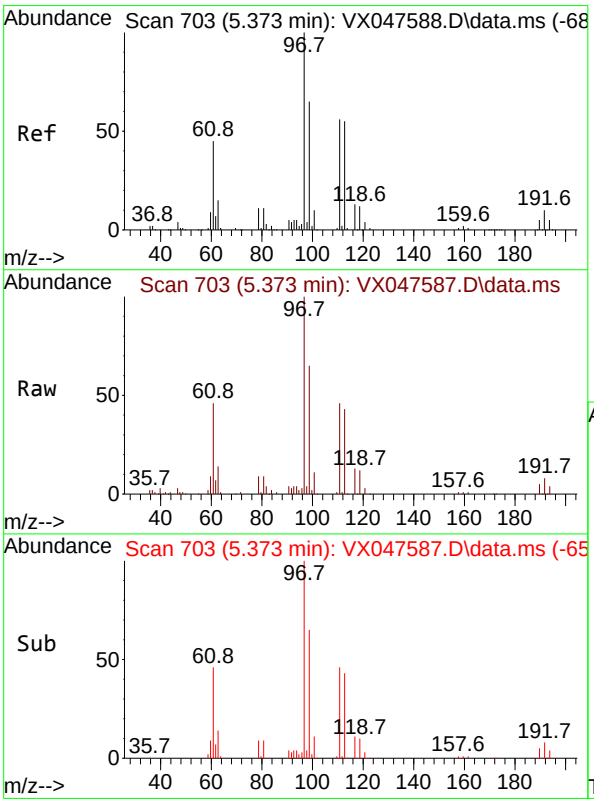
Ion	Ratio	Lower	Upper
56	100		
69	27.9	23.8	35.8
84	82.2	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

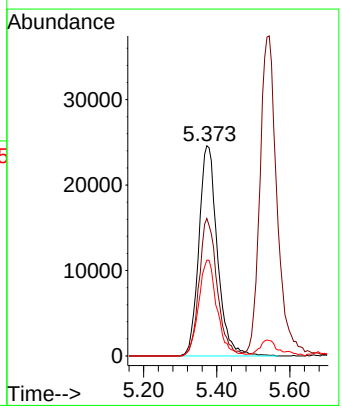


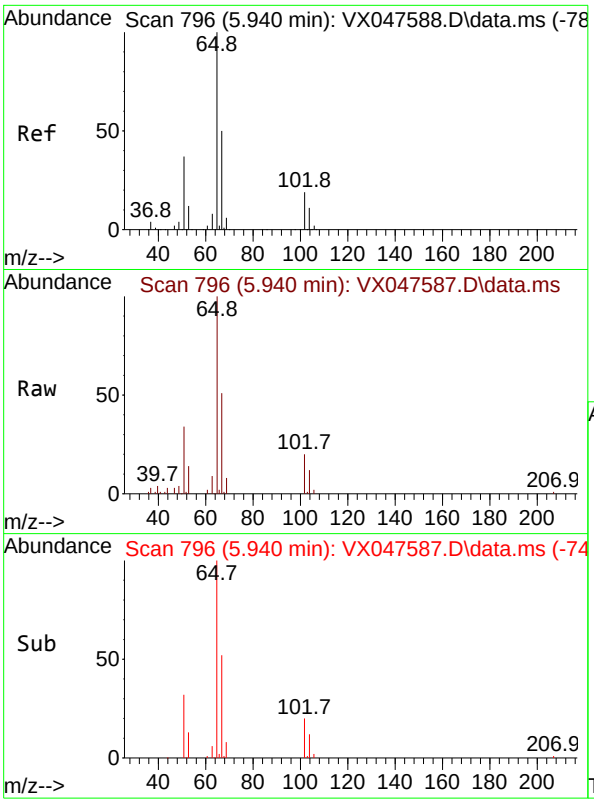


#32
1,1,1-Trichloroethane
Concen: 21.081 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 86500

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	45.5	35.8	53.8

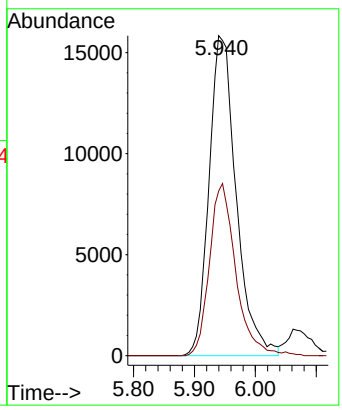




#33
1,2-Dichloroethane-d4
Concen: 16.264 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 65 Resp: 4907

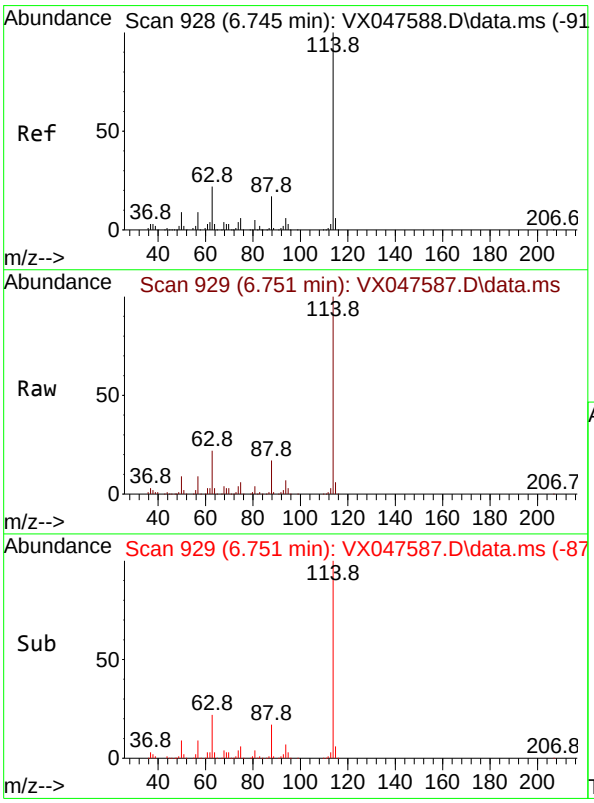
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

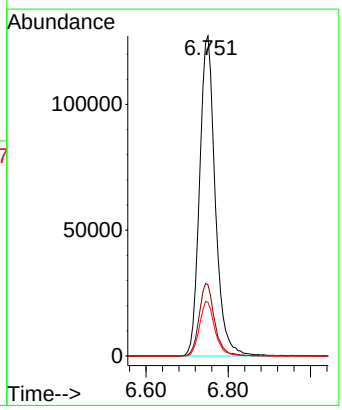
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

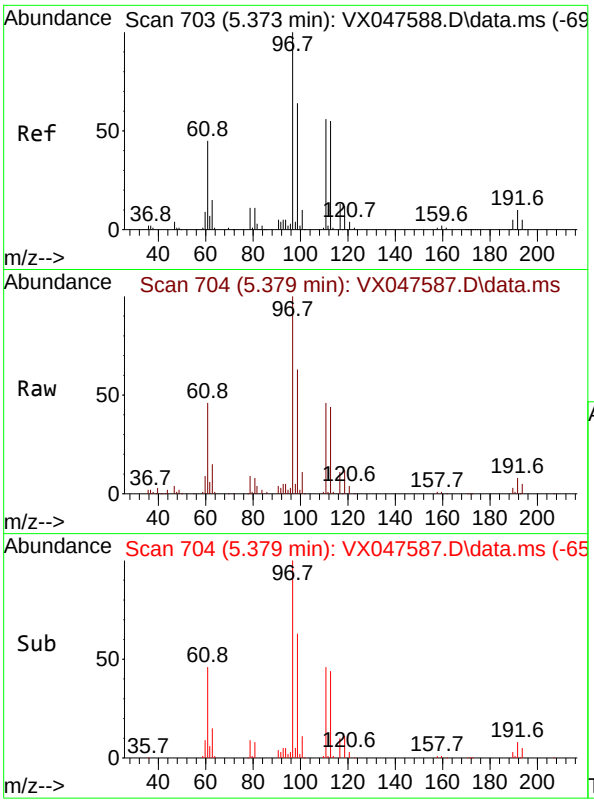


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:114 Resp: 336287

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

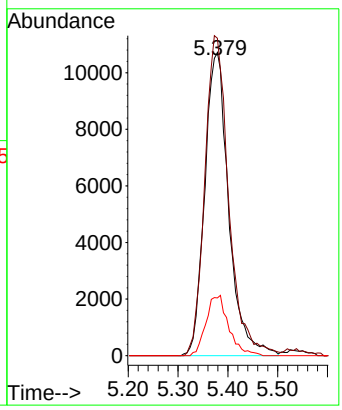




#35
Dibromofluoromethane
Concen: 15.868 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:113 Resp: 3578

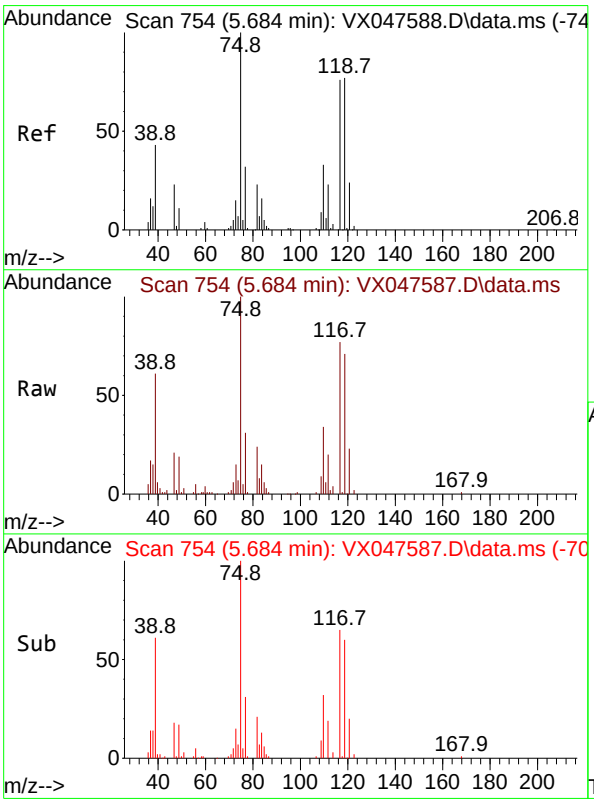
Ion	Ratio	Lower	Upper
113	100		
111	105.7	80.9	121.3
192	18.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

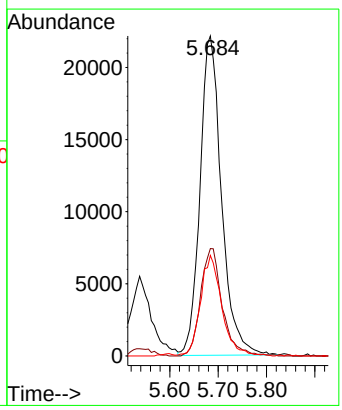
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

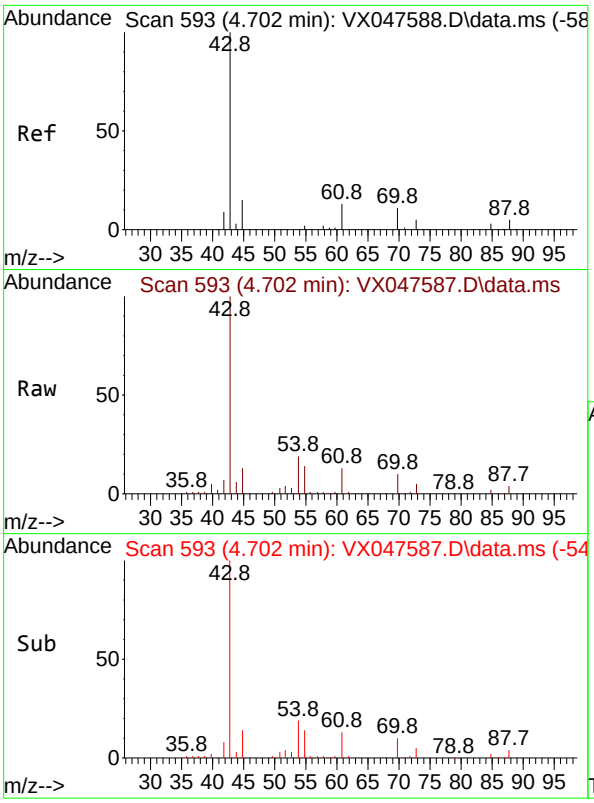


#36
1,1-Dichloropropene
Concen: 20.754 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 68395

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.2	24.3	36.5

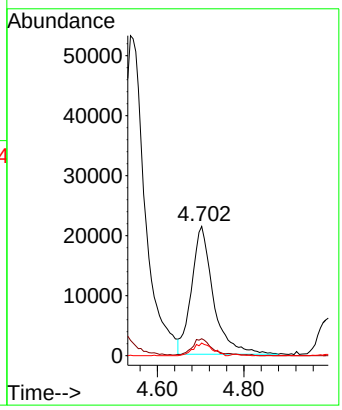




#37
Ethyl Acetate
Concen: 21.113 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 7449

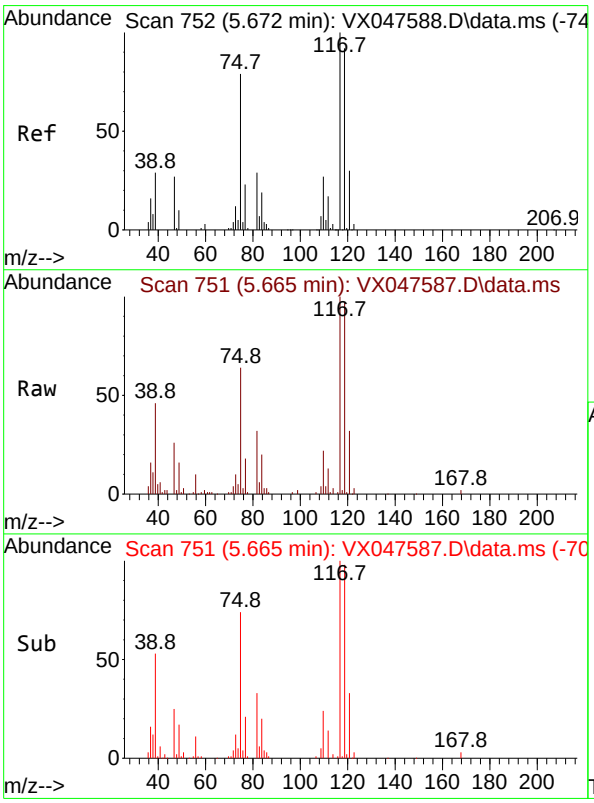
Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	8.5	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

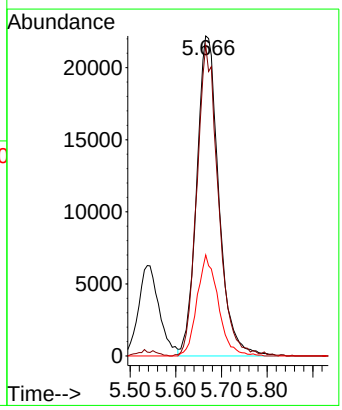
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

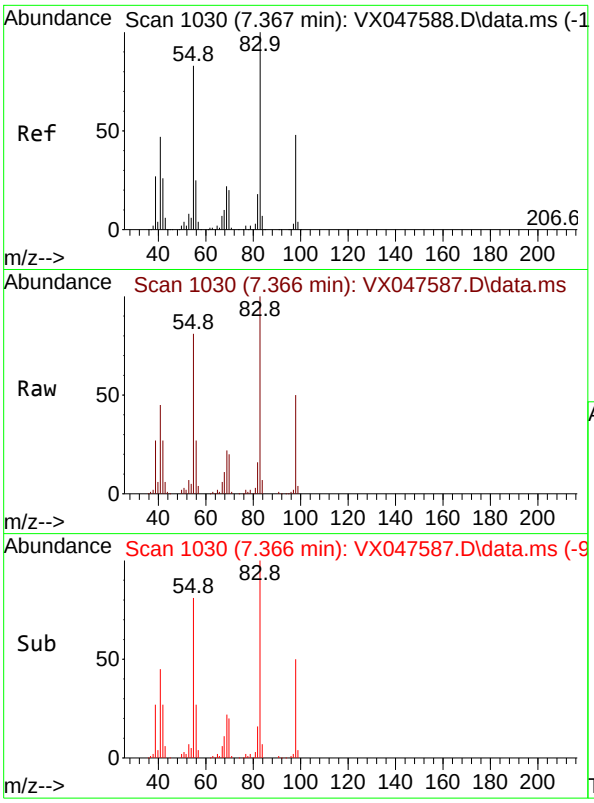


#38
Carbon Tetrachloride
Concen: 20.844 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 74636

Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.4	110.2
121	31.6	23.8	35.6

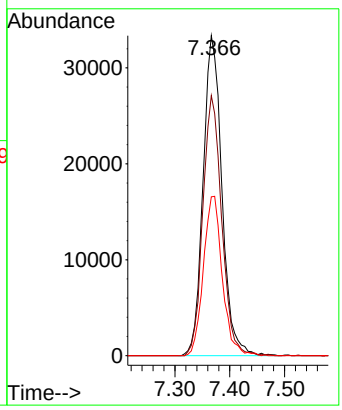




#39
Methylcyclohexane
Concen: 21.251 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 7949

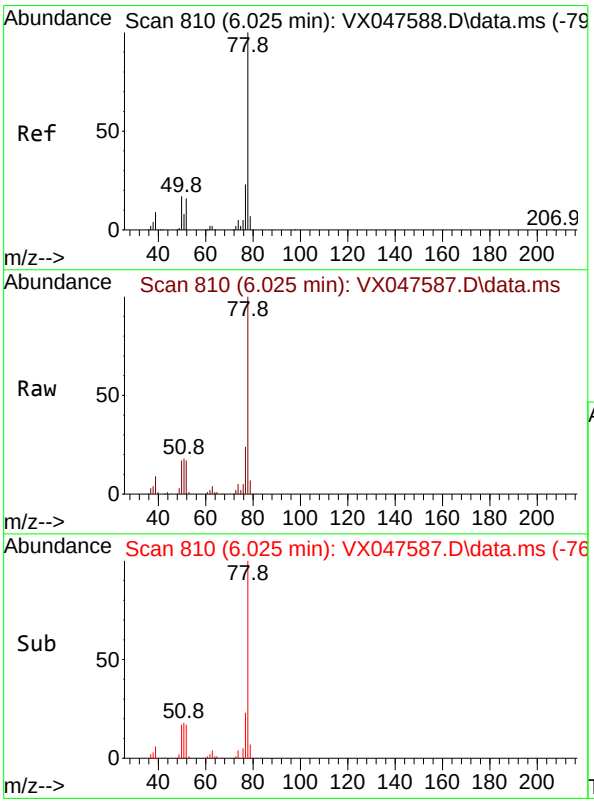
Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.4	99.6
98	49.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

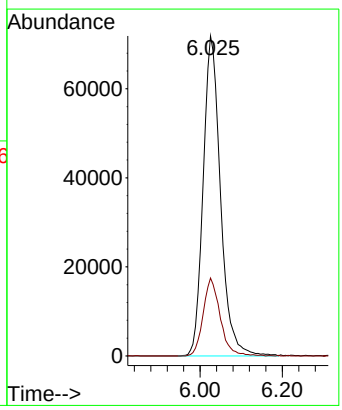
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

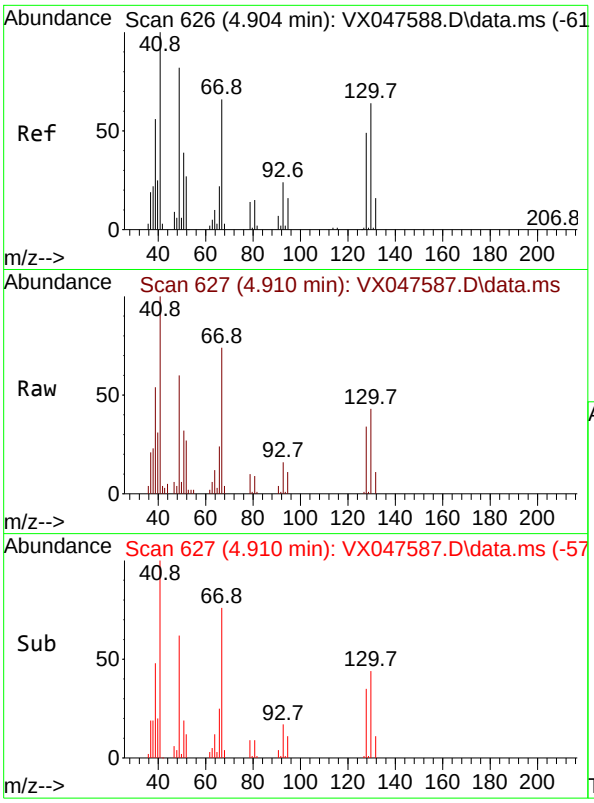


#40
Benzene
Concen: 21.051 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 78 Resp: 210711

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2

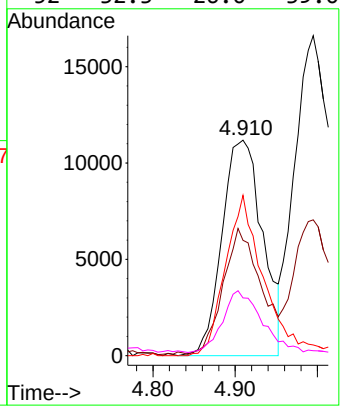




#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 3852

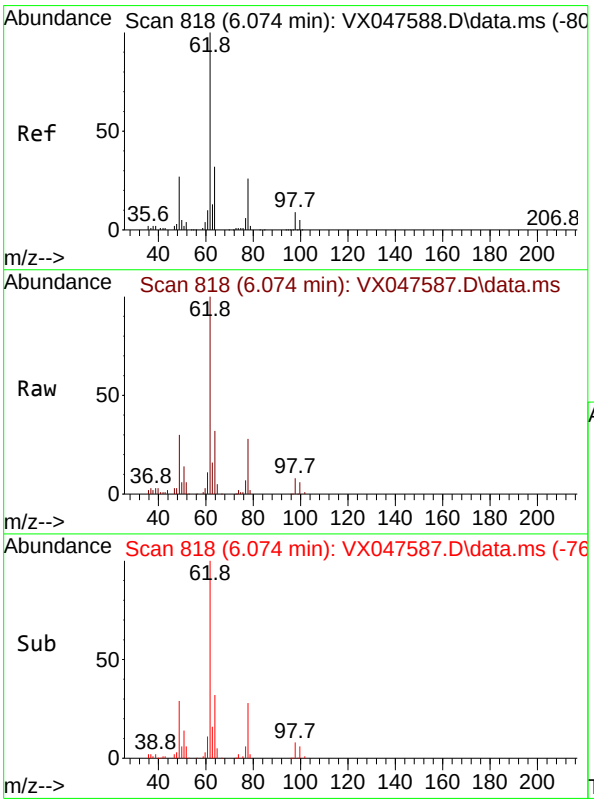
Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.3	64.9
67	72.5	58.6	87.8
52	32.3	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

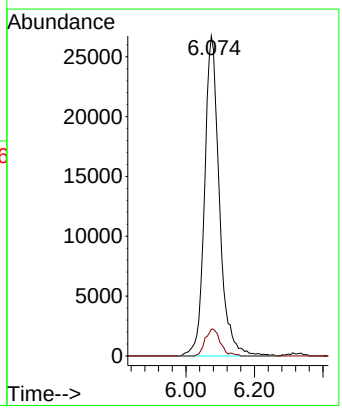
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

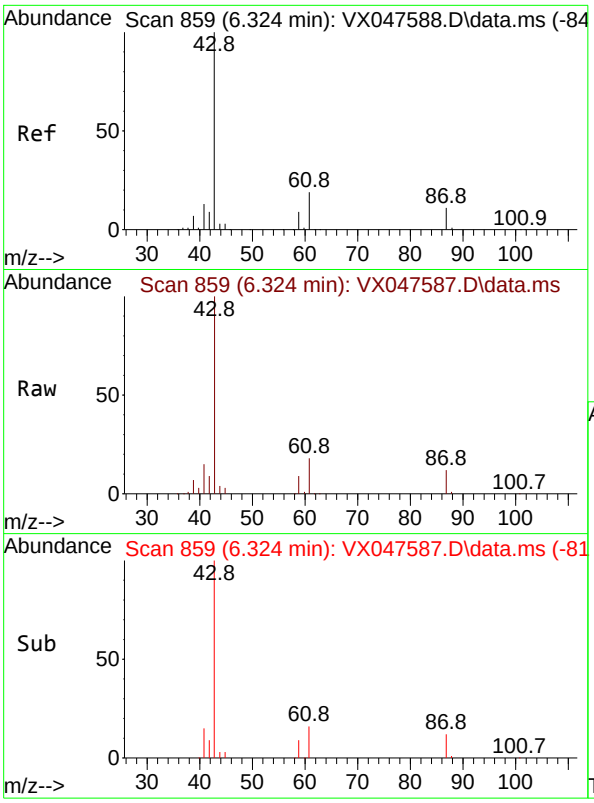


#42
1,2-Dichloroethane
Concen: 21.175 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 80646

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

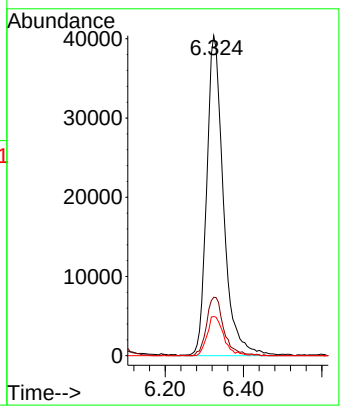




#43
Isopropyl Acetate
Concen: 20.670 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 11962

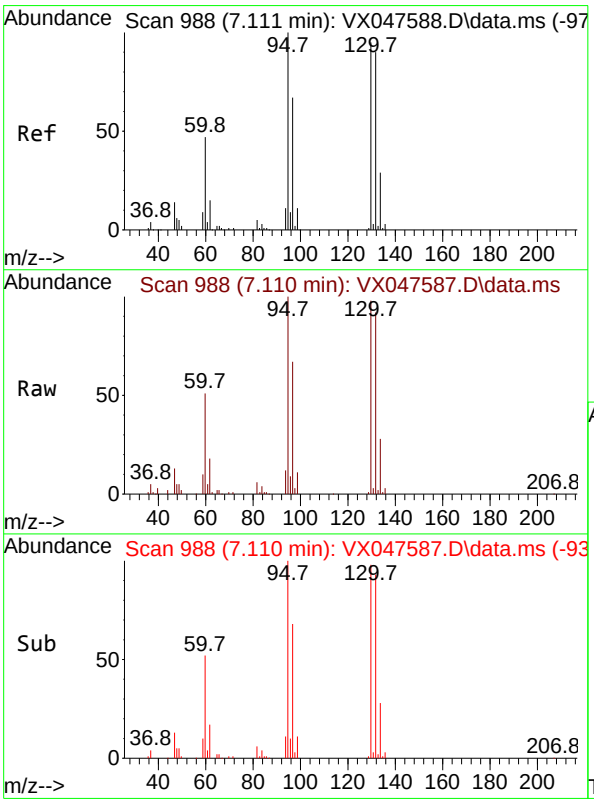
Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.2	22.8
87	12.1	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

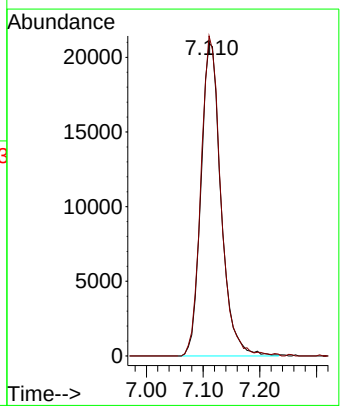
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

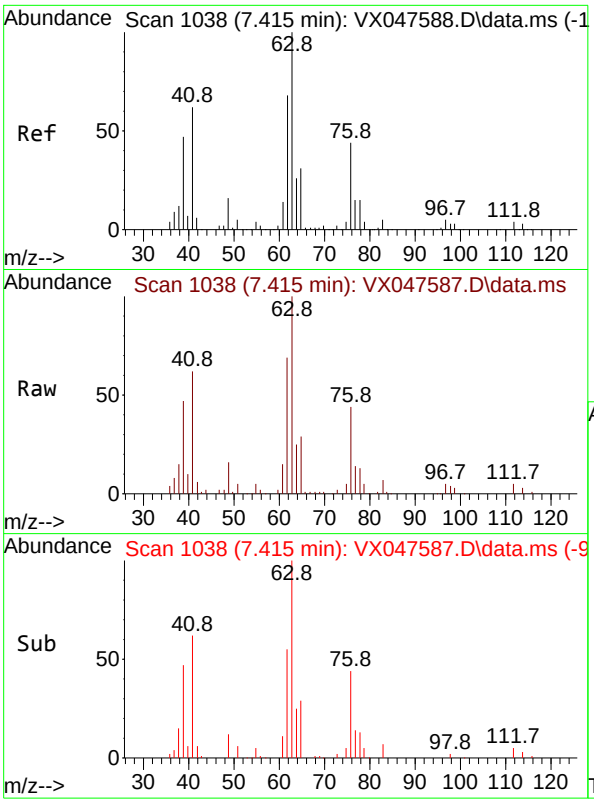


#44
Trichloroethene
Concen: 21.228 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:130 Resp: 51369

Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	210.8

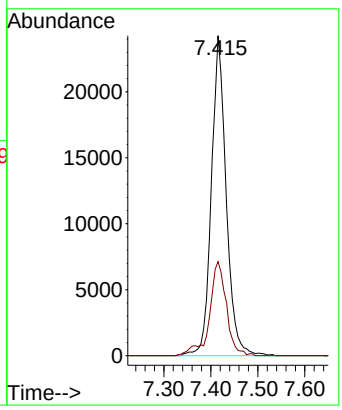




#45
1,2-Dichloropropane
Concen: 20.697 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 5304

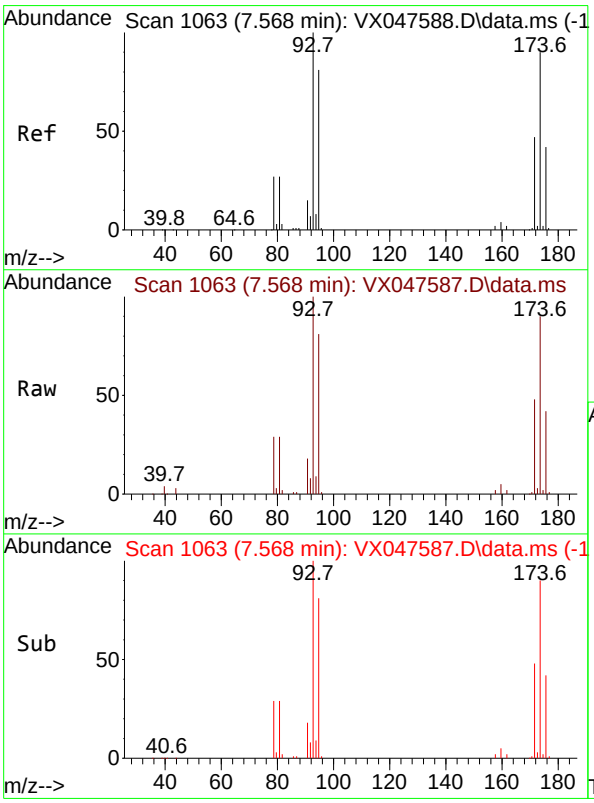
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

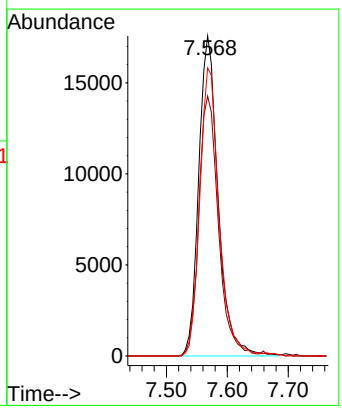
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

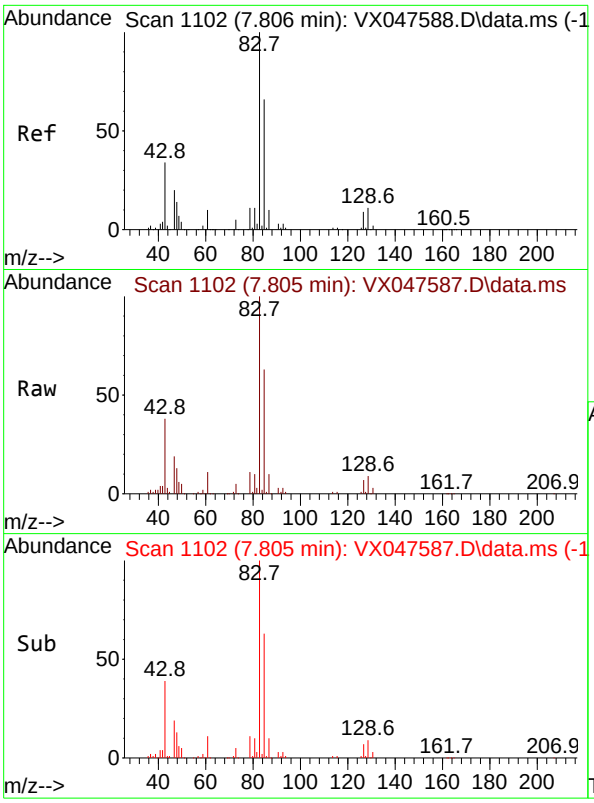


#46
Dibromomethane
Concen: 20.862 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 93 Resp: 38910

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.0	97.6
174	89.2	71.6	107.4

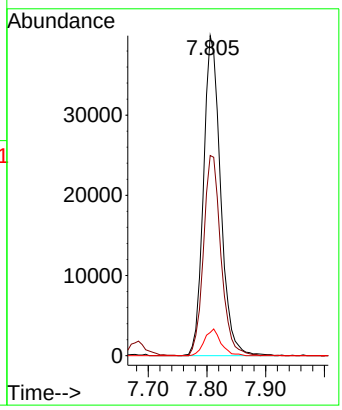




#47
Bromodichloromethane
Concen: 21.002 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 8083

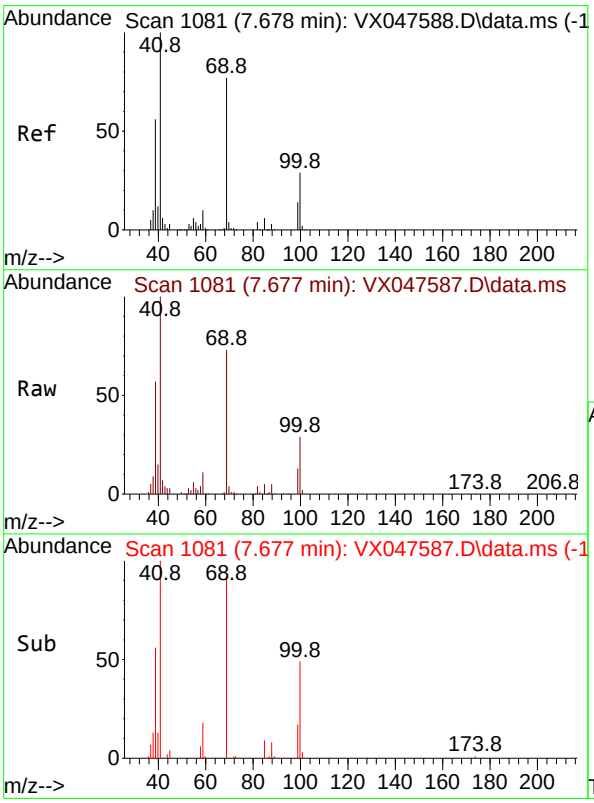
Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

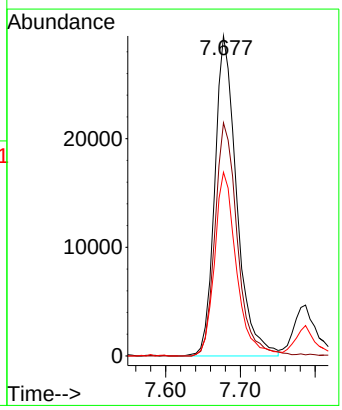
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

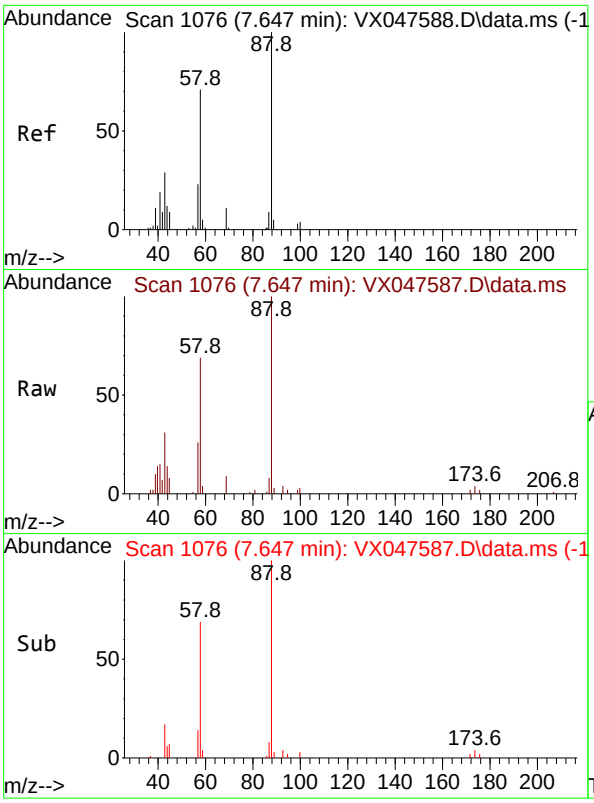


#48
Methyl methacrylate
Concen: 20.877 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 60182

Ion	Ratio	Lower	Upper
41	100		
69	74.2	61.4	92.2
39	57.2	45.8	68.6

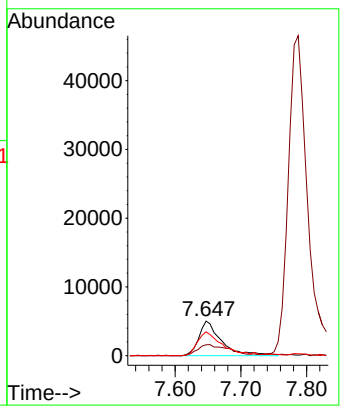




#49
1,4-Dioxane
Concen: 413.530 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 88 Resp: 1204

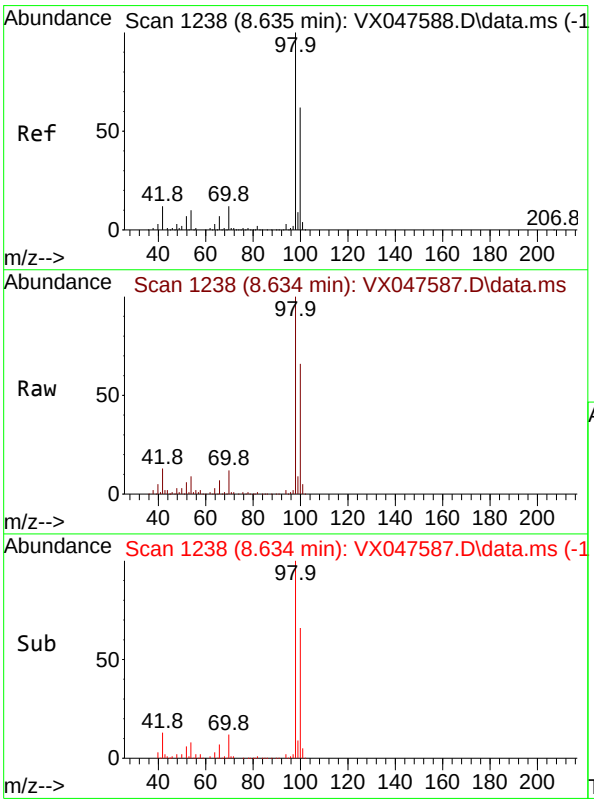
Ion	Ratio	Lower	Upper
88	100		
43	44.7	30.2	45.2
58	75.8	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

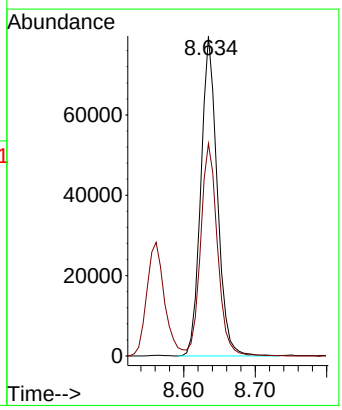
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

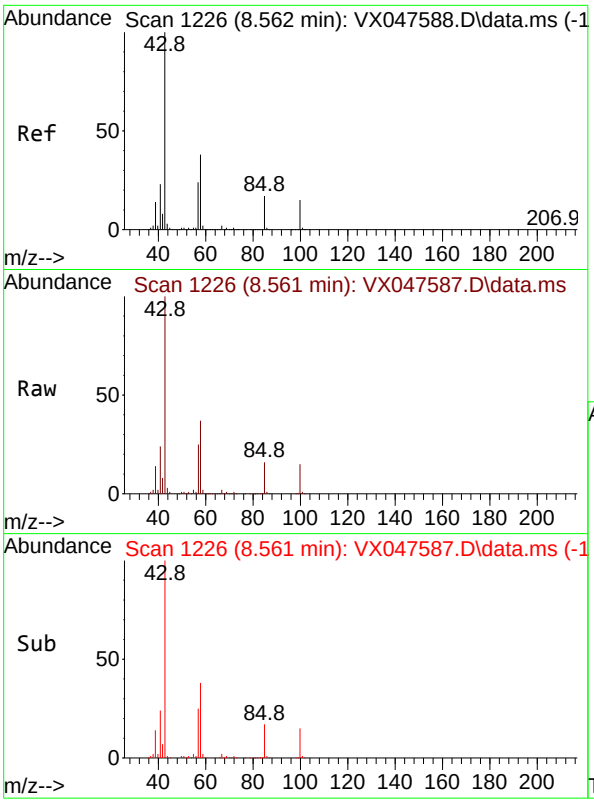


#50
Toluene-d8
Concen: 16.258 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 98 Resp: 126875

Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4

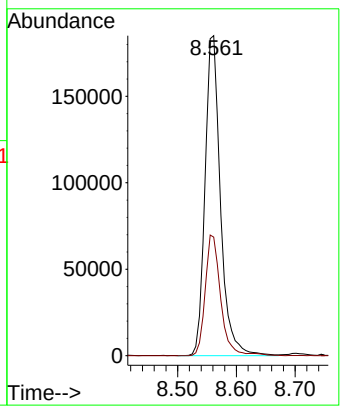




#51
4-Methyl-2-Pentanone
Concen: 105.456 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 33837

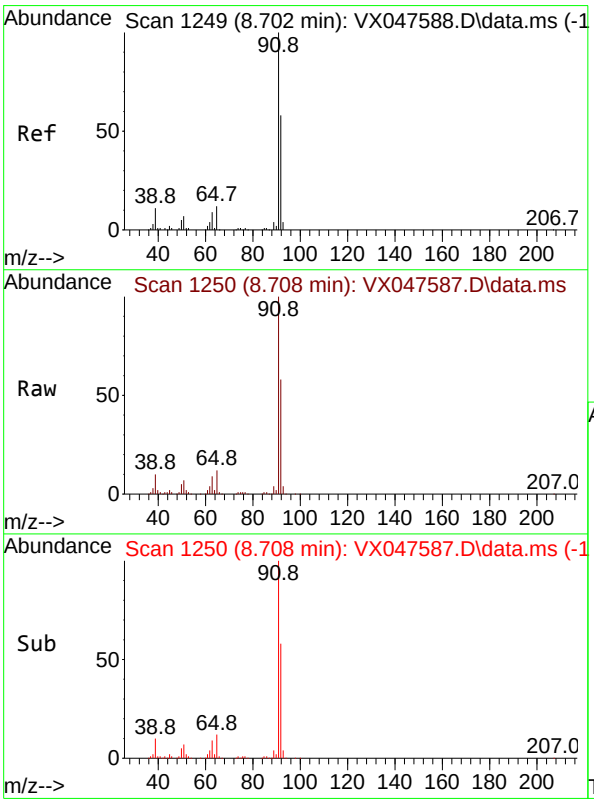
Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

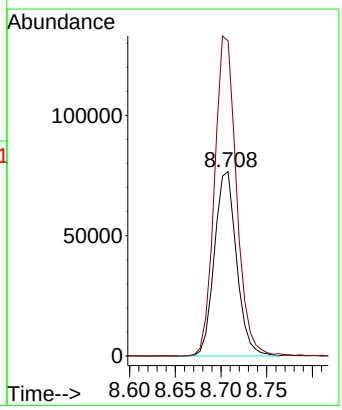
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

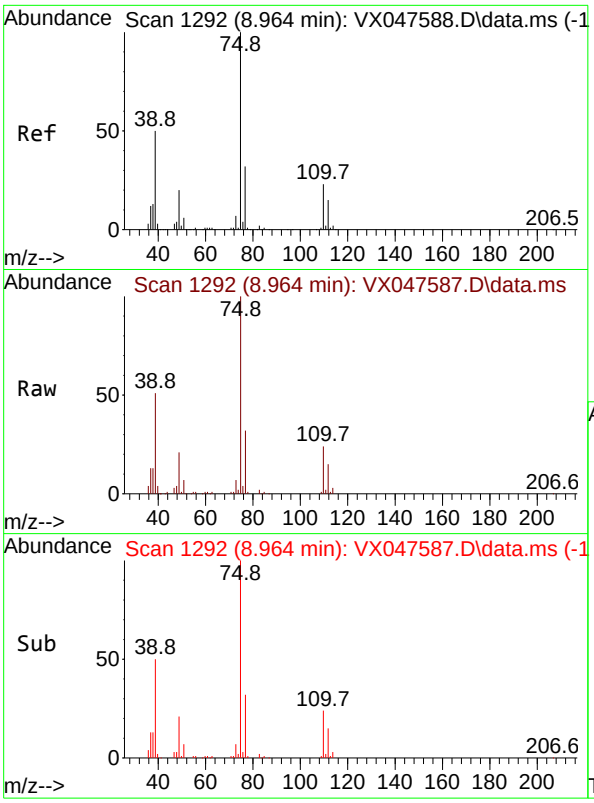


#52
Toluene
Concen: 20.950 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 92 Resp: 129193

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.1	205.7

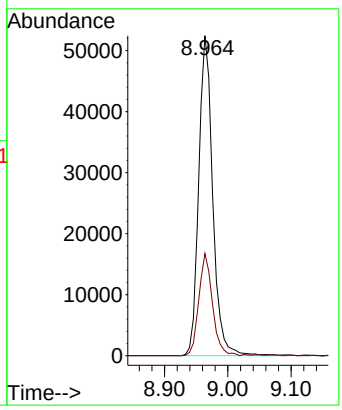




#53
t-1,3-Dichloropropene
Concen: 20.625 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 8097

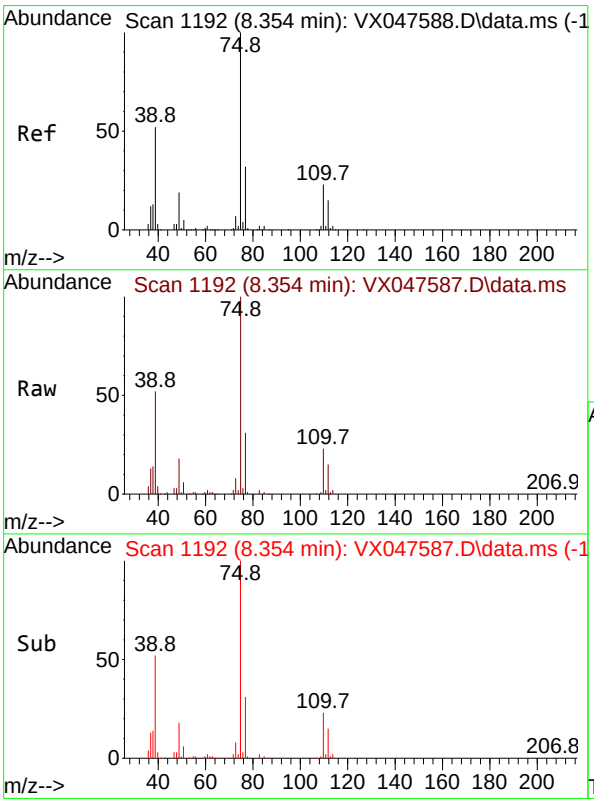
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

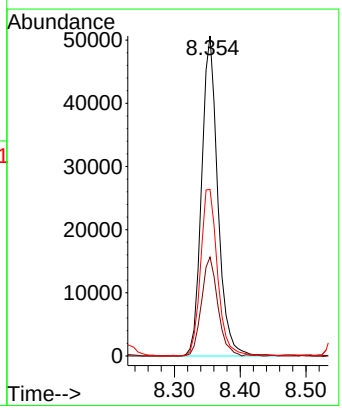
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

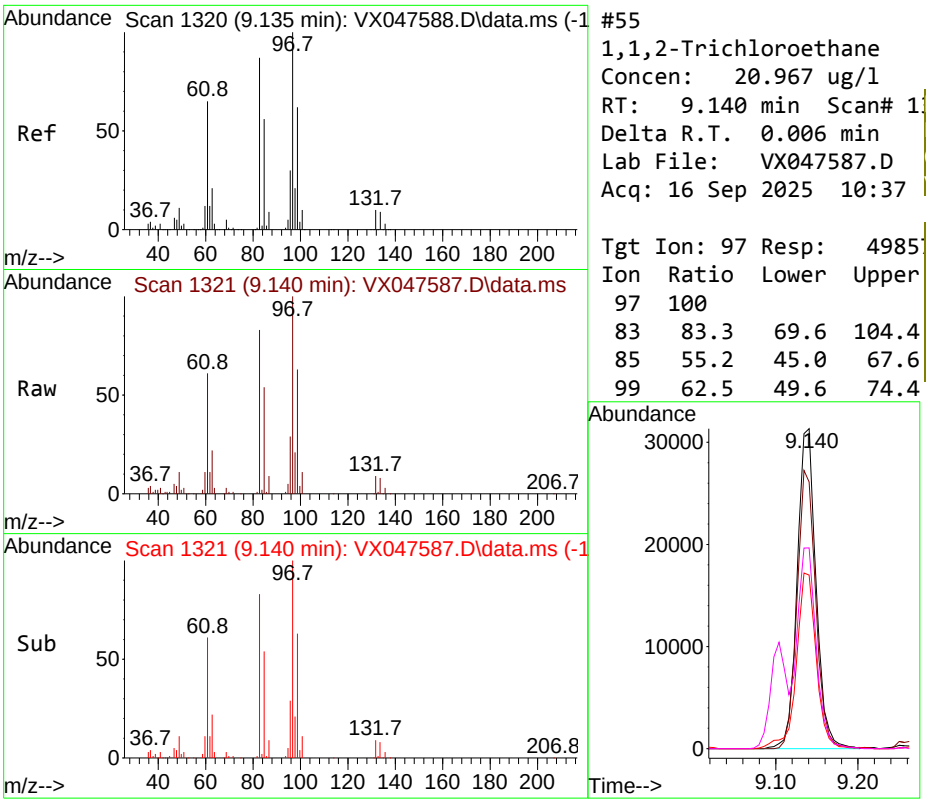


#54
cis-1,3-Dichloropropene
Concen: 20.650 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 86648

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	52.0	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 20.967 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

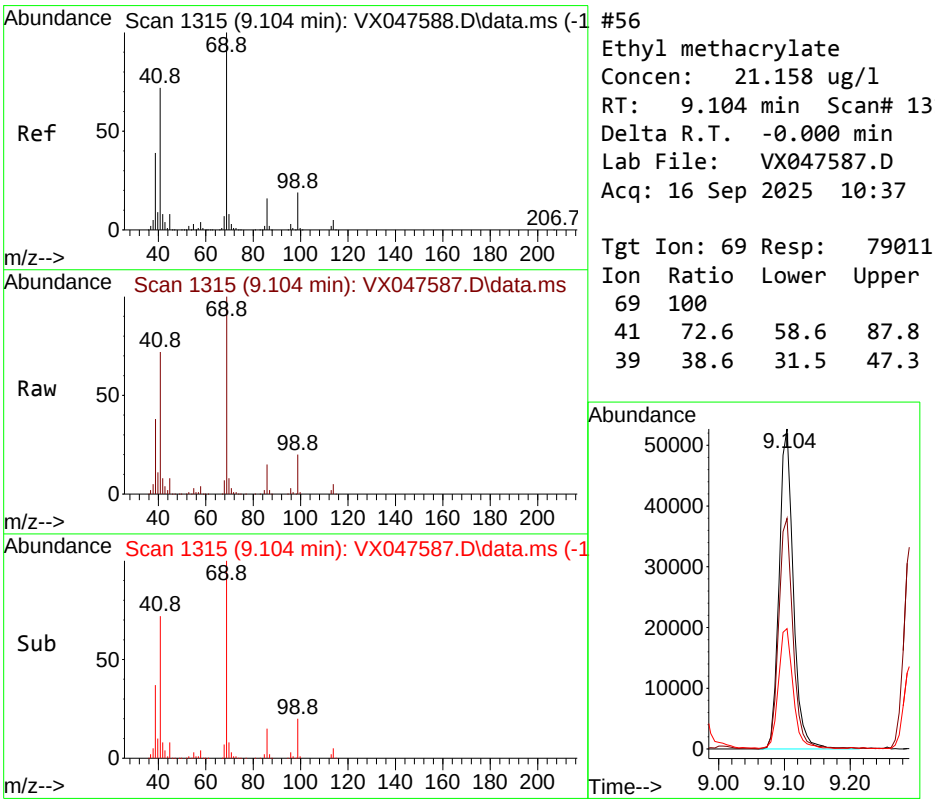
Tgt Ion: 97 Resp: 4985

Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.6	104.4
85	55.2	45.0	67.6
99	62.5	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

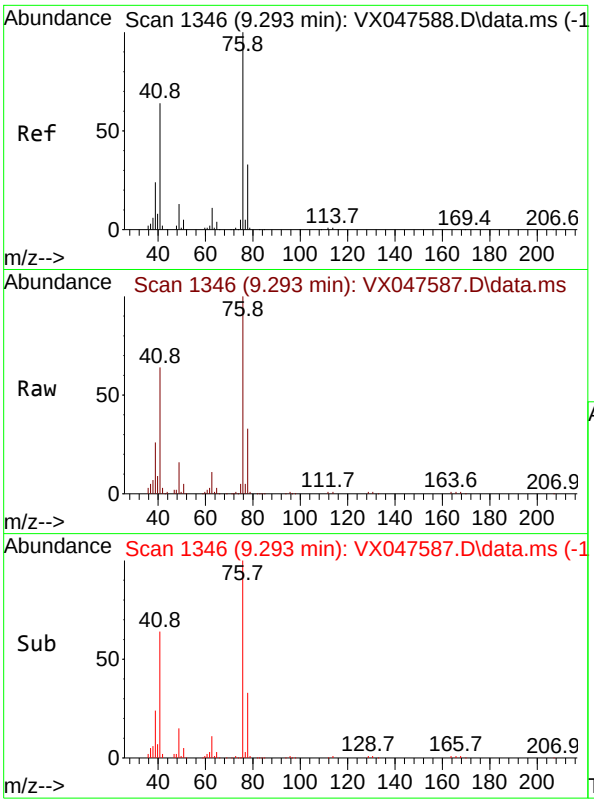
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#56
Ethyl methacrylate
Concen: 21.158 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 69 Resp: 79011

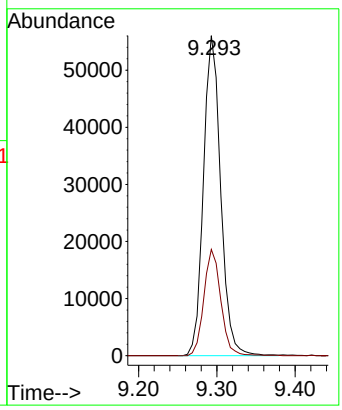
Ion	Ratio	Lower	Upper
69	100		
41	72.6	58.6	87.8
39	38.6	31.5	47.3



#57
1,3-Dichloropropane
Concen: 20.934 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 76 Resp: 8551

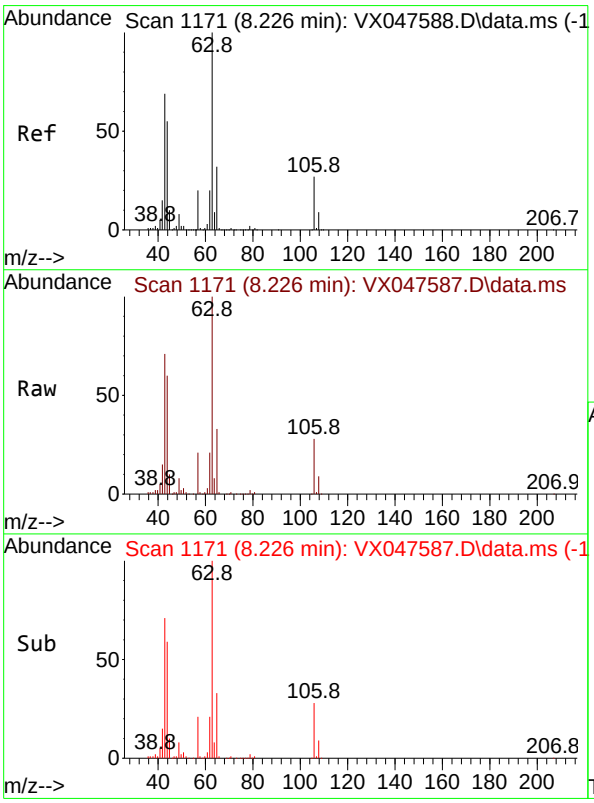
Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

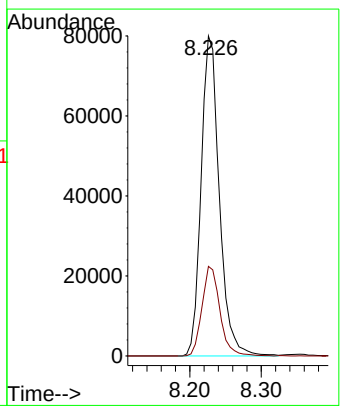
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

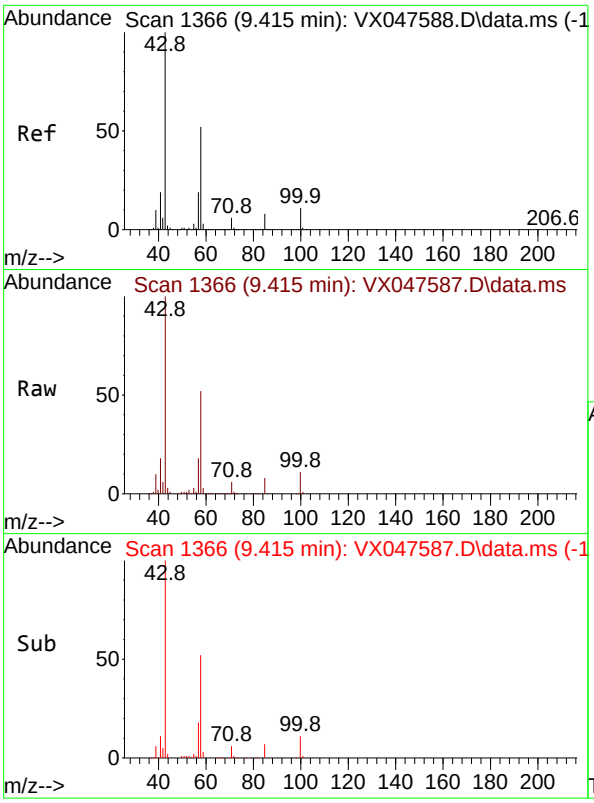


#58
2-Chloroethyl Vinyl ether
Concen: 86.617 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 141395

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9





#59
2-Hexanone
Concen: 108.488 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

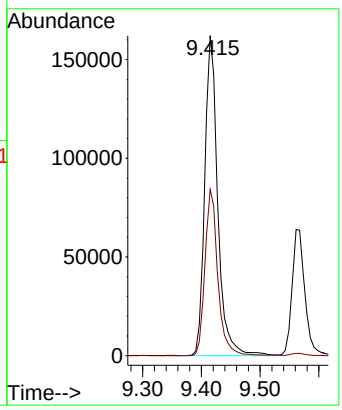
Tgt Ion: 43 Resp: 25000

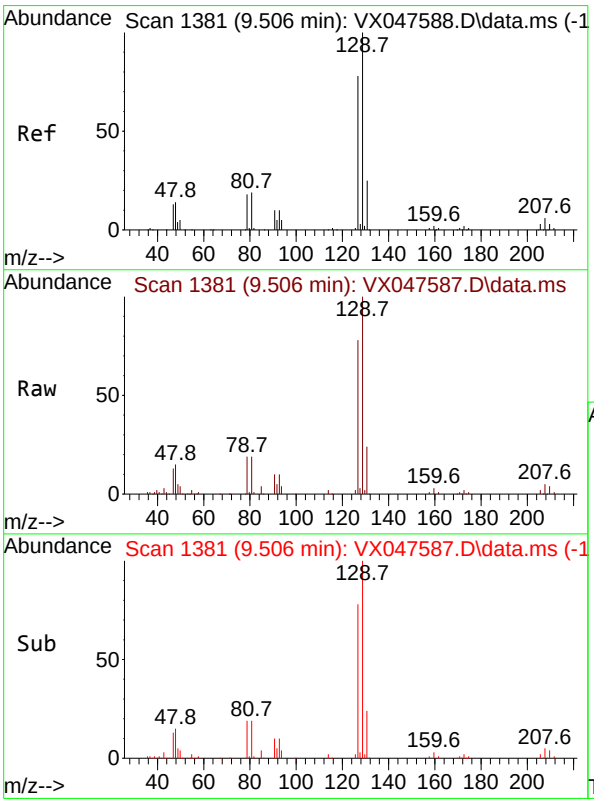
Ion	Ratio	Lower	Upper
43	100		
58	51.4	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

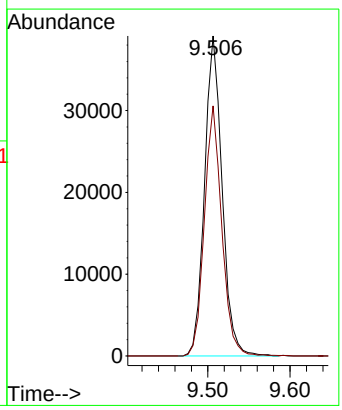


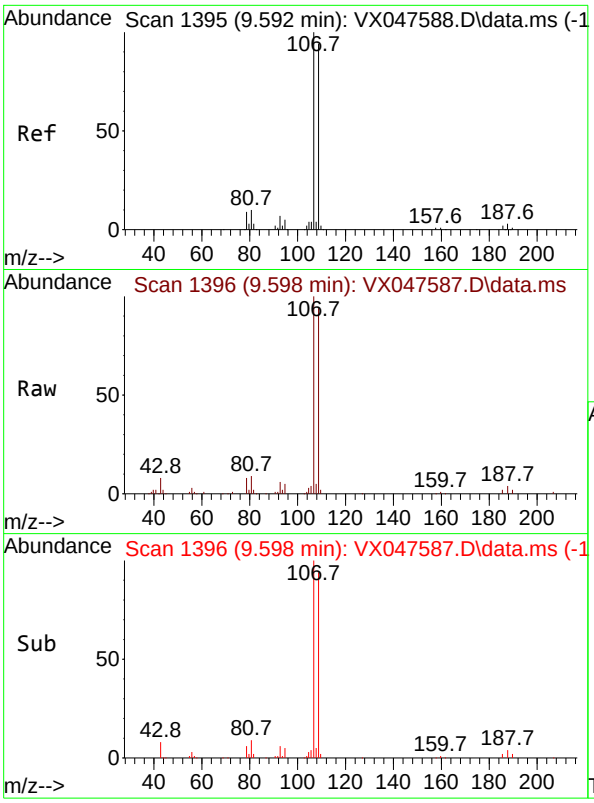


#60
Dibromochloromethane
Concen: 21.167 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:129 Resp: 57994

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2

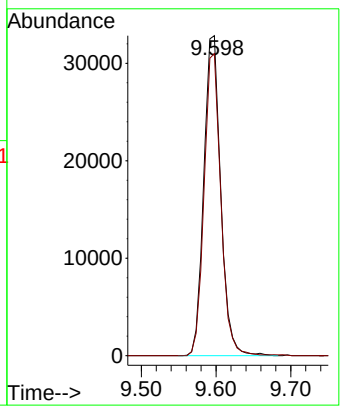




#61
1,2-Dibromoethane
Concen: 21.310 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:107 Resp: 5161

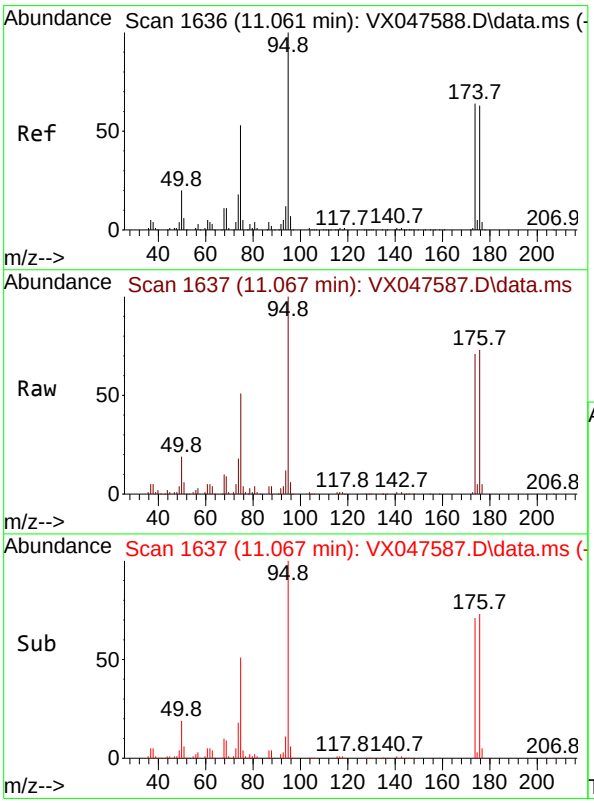
Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

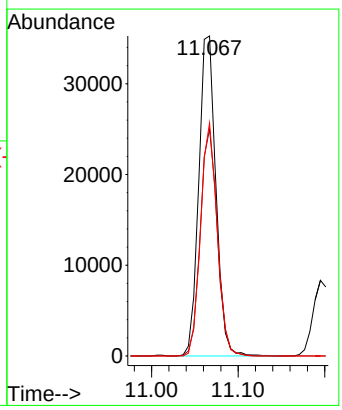
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

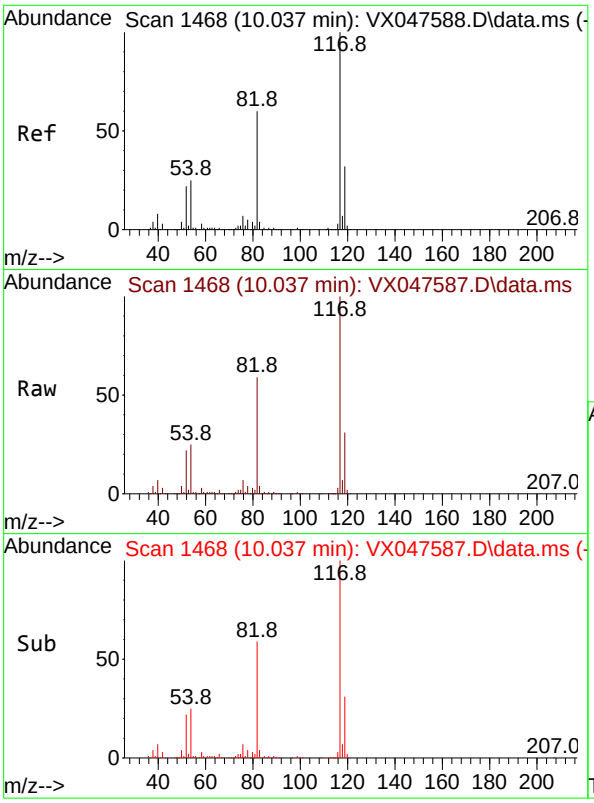


#62
4-Bromofluorobenzene
Concen: 16.360 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 95 Resp: 48454

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	141.6
176	70.3	0.0	138.4

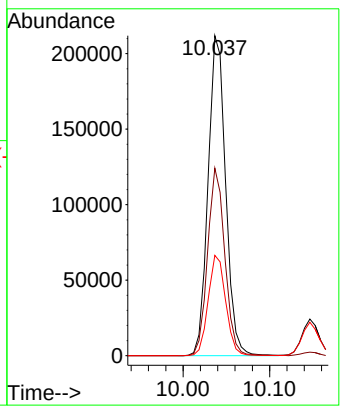




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 29862

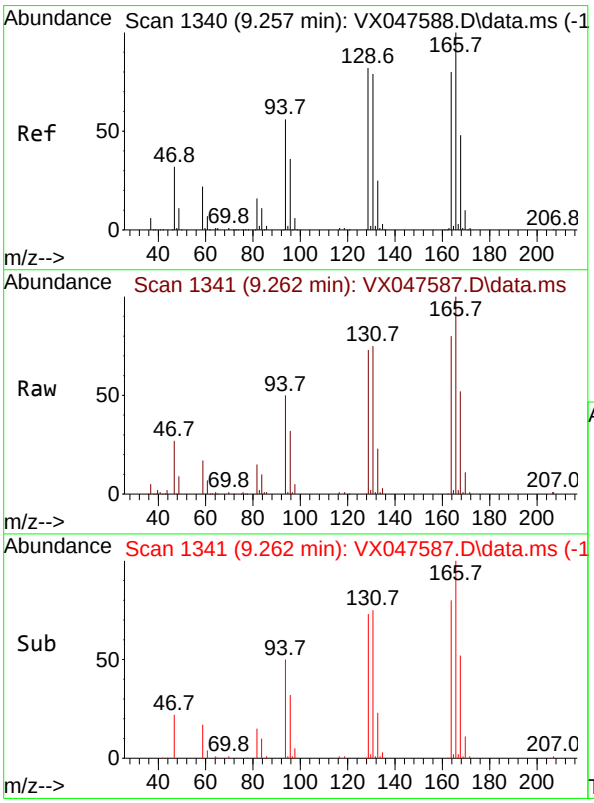
Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.8	71.6
119	31.3	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

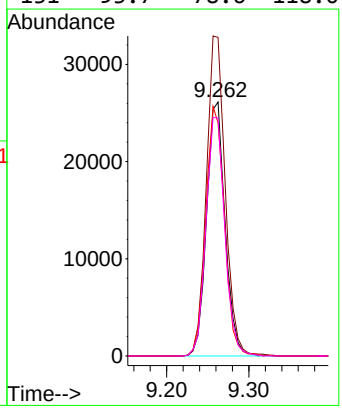
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

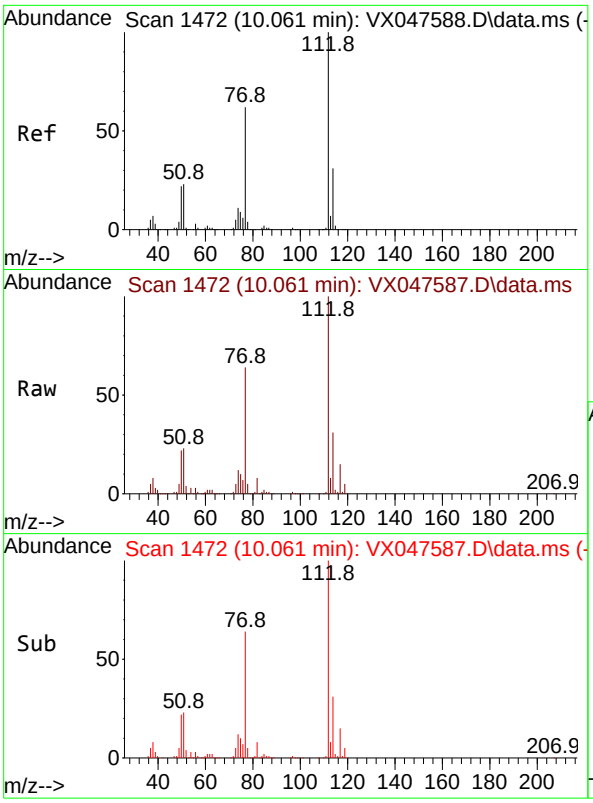


#64
Tetrachloroethene
Concen: 20.979 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:164 Resp: 40840

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.2	150.2
129	91.8	81.8	122.6
131	93.7	78.6	118.0





#65
Chlorobenzene
Concen: 20.731 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

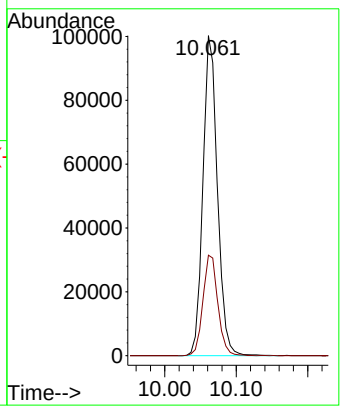
Tgt Ion:112 Resp: 14064

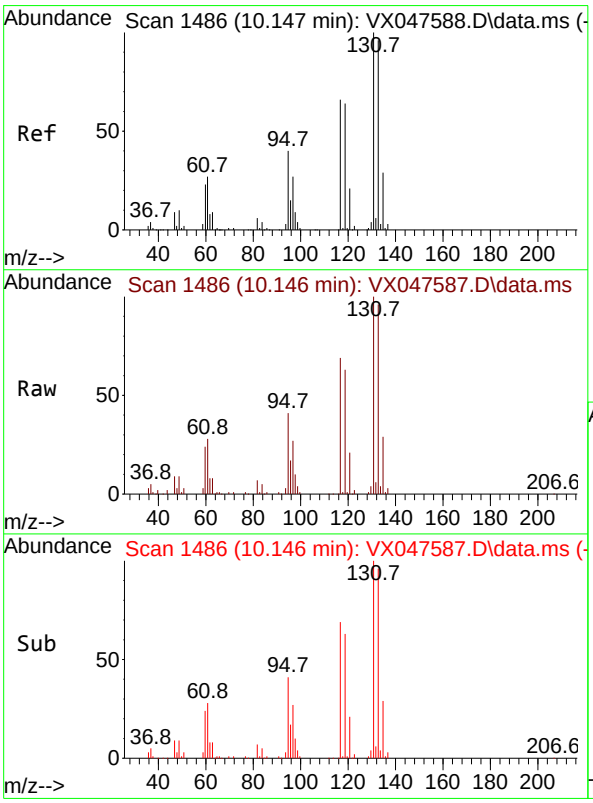
Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

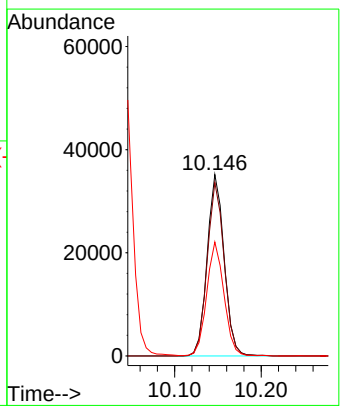


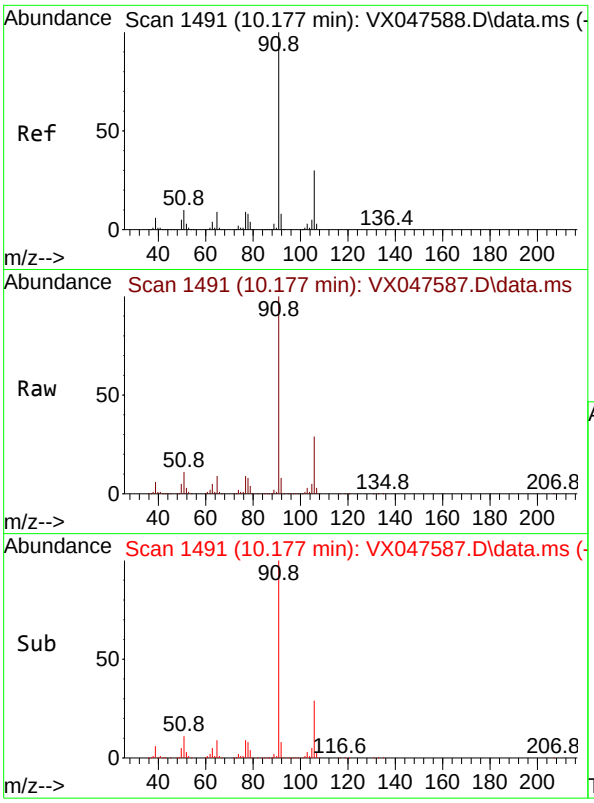


#66
1,1,1,2-Tetrachloroethane
Concen: 20.513 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:131 Resp: 48022

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	142.0
119	63.9	32.0	96.0

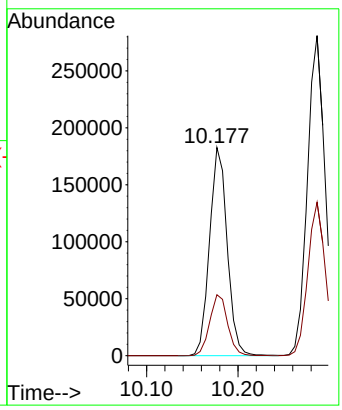




#67
Ethyl Benzene
Concen: 20.907 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 24473

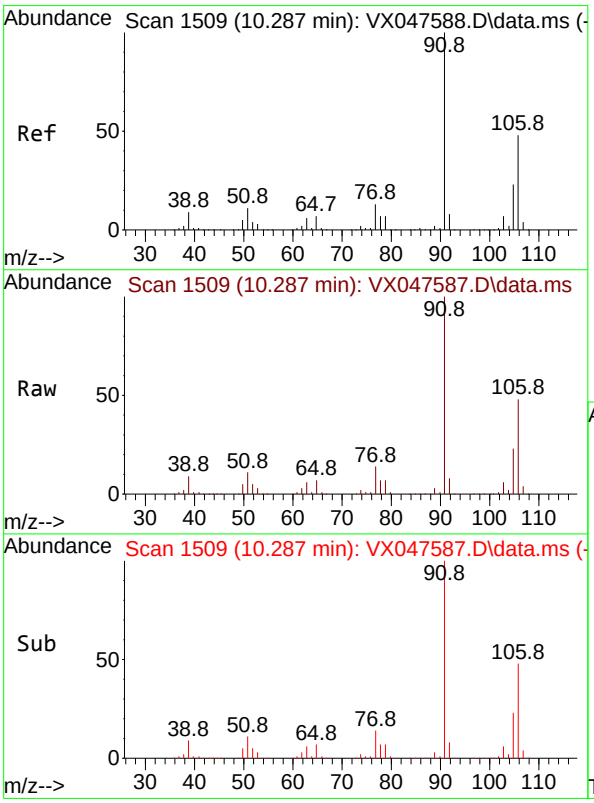
Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

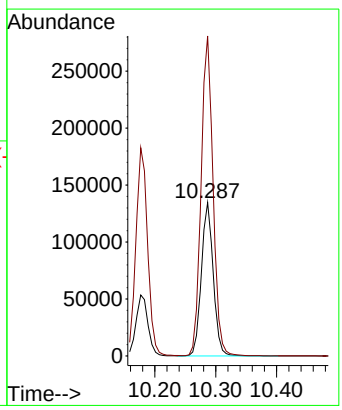
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

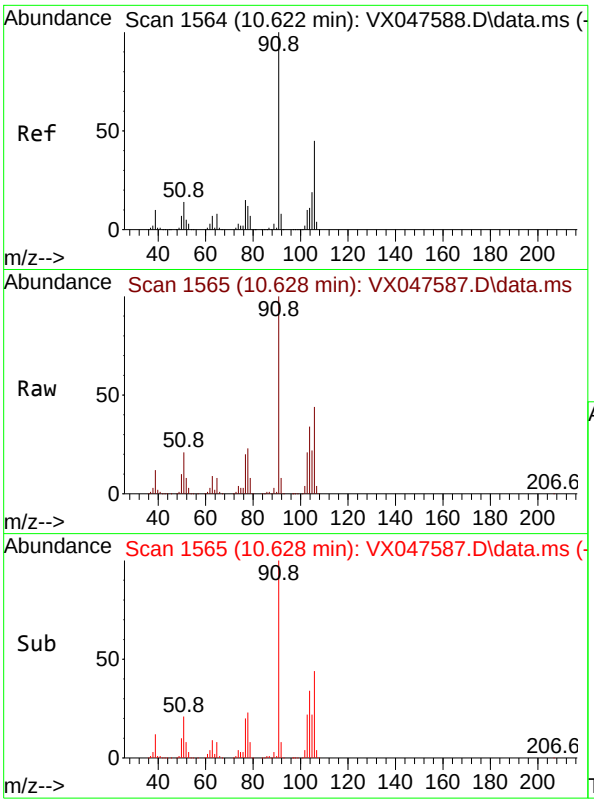


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 182778

Ion	Ratio	Lower	Upper
106	100		
91	210.2	167.8	251.8

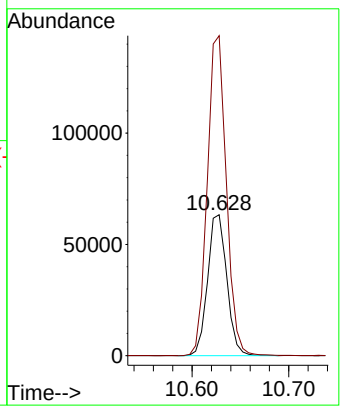




#69
o-Xylene
Concen: 20.799 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 8765

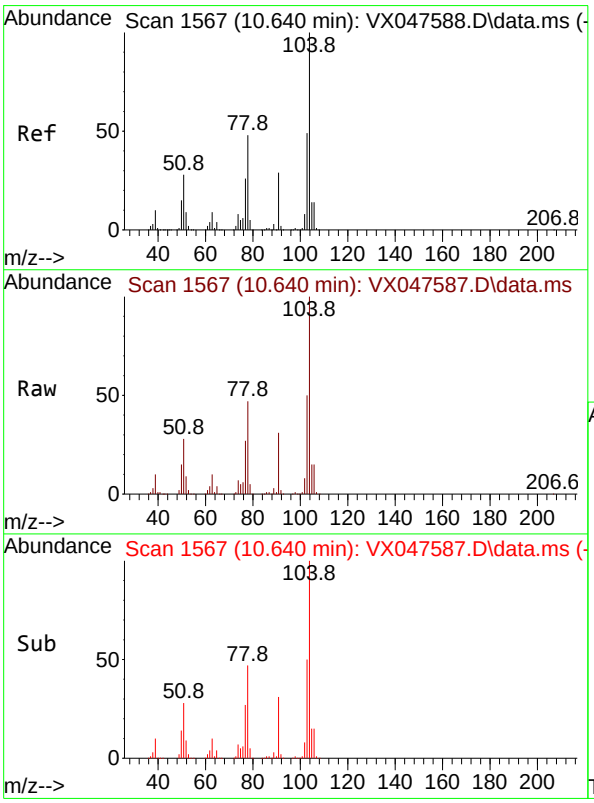
Ion	Ratio	Lower	Upper
106	100		
91	225.3	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

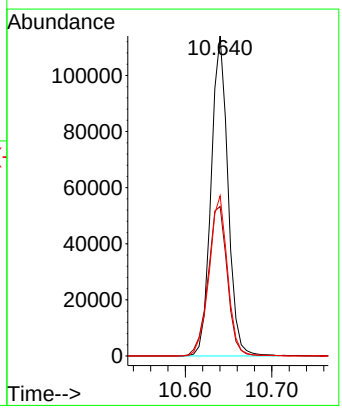
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

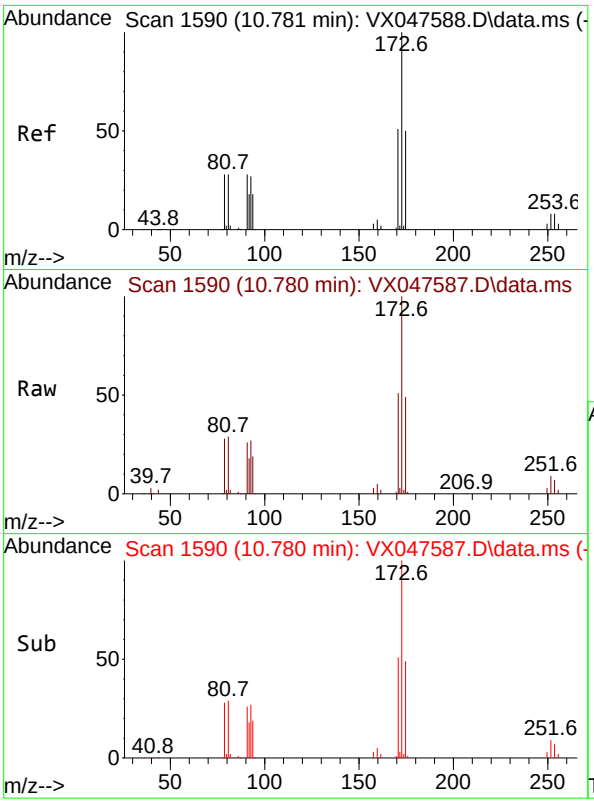


#70
Styrene
Concen: 20.866 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:104 Resp: 154077

Ion	Ratio	Lower	Upper
104	100		
78	53.6	43.1	64.7
103	54.4	43.1	64.7

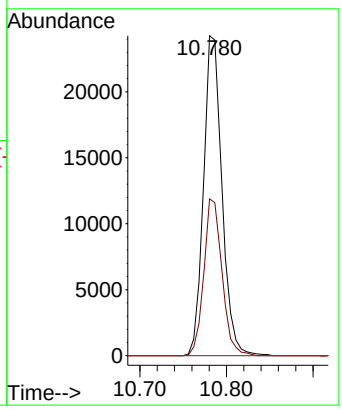




#71
Bromoform
Concen: 20.550 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:173 Resp: 3592

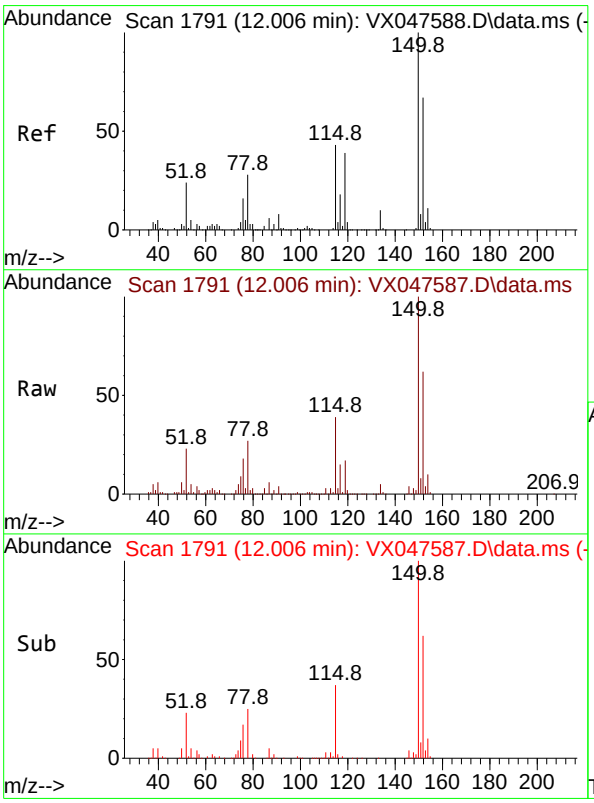
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

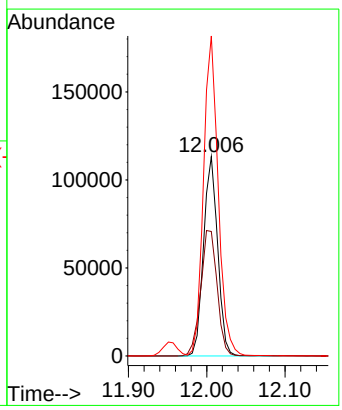
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

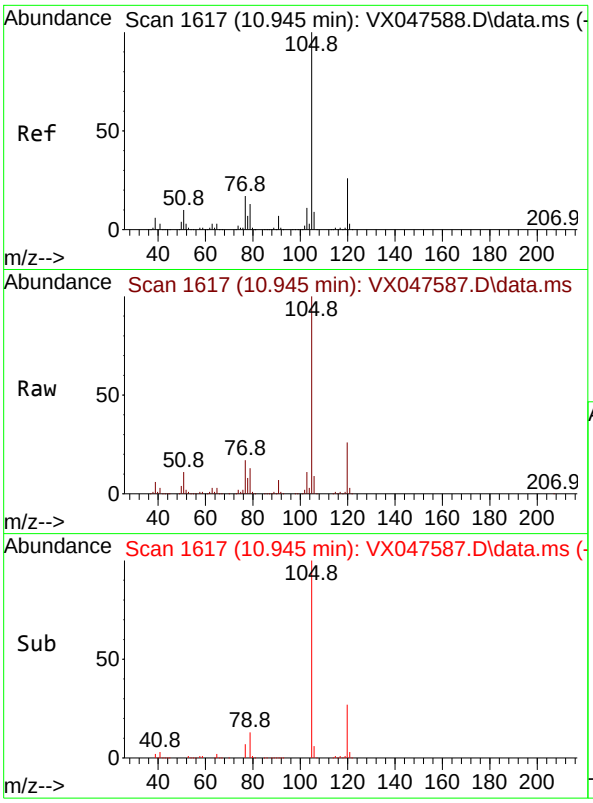


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:152 Resp: 141590

Ion	Ratio	Lower	Upper
152	100		
115	73.2	44.9	134.5
150	167.1	0.0	352.0





#73
Isopropylbenzene
Concen: 20.970 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

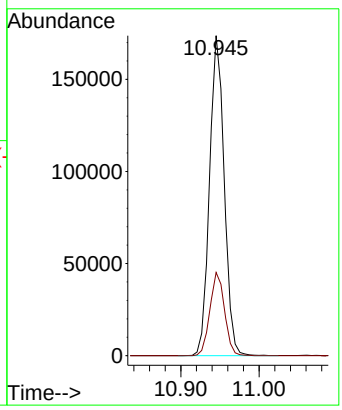
Tgt Ion:105 Resp: 22573

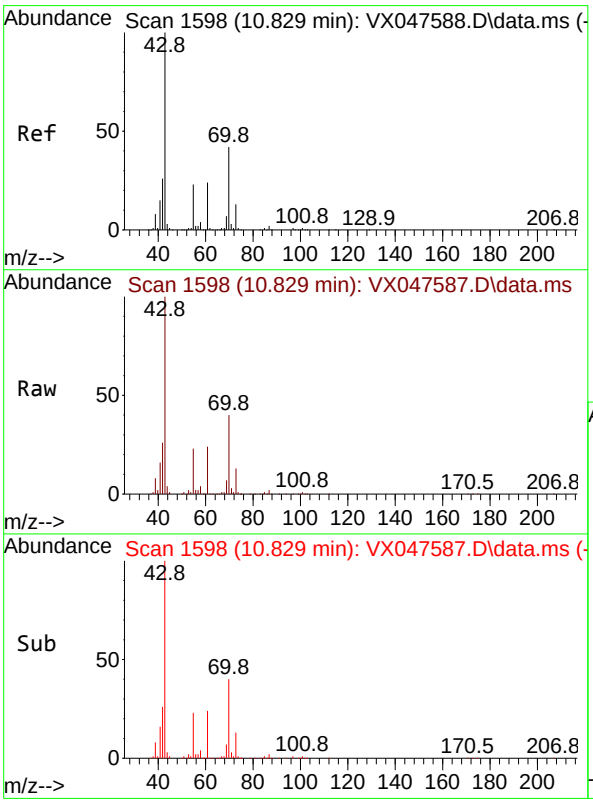
Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

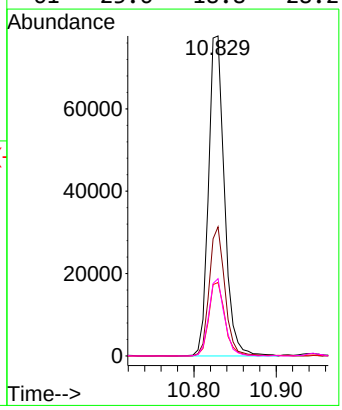


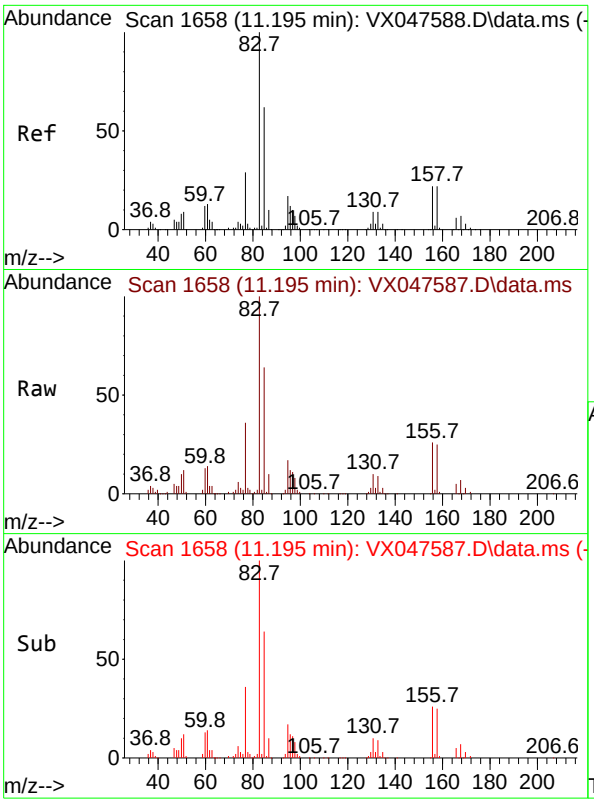


#74
N-amyl acetate
Concen: 21.354 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 104823

Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.0	48.0
55	23.4	18.9	28.3
61	23.6	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 20.920 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

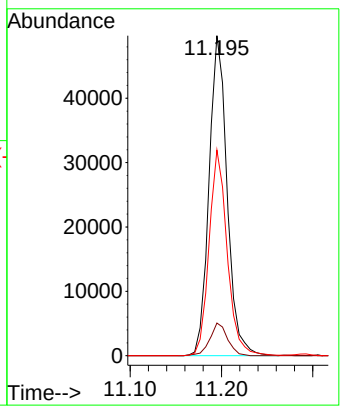
Tgt Ion: 83 Resp: 6813

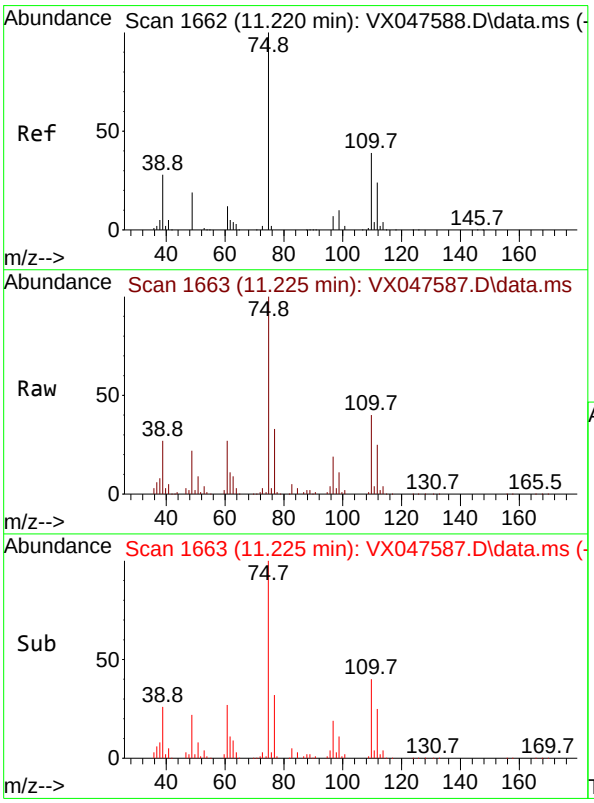
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.4	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

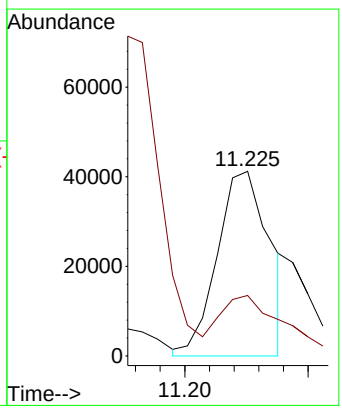


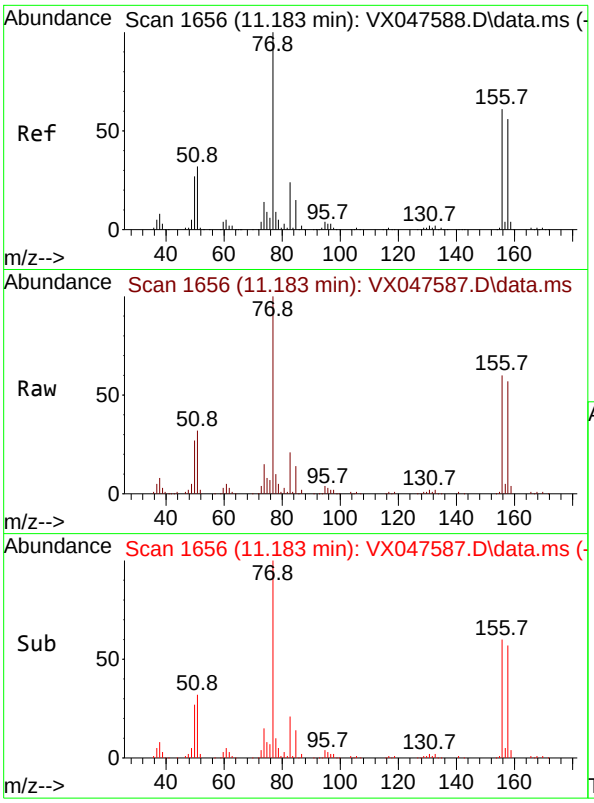


#76
1,2,3-Trichloropropane
Concen: 20.680 ug/l m
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 60797

Ion	Ratio	Lower	Upper
75	100		
77	39.6	18.8	56.4

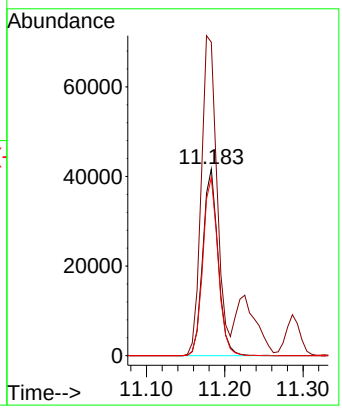




#77
Bromobenzene
Concen: 21.183 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:156 Resp: 5616

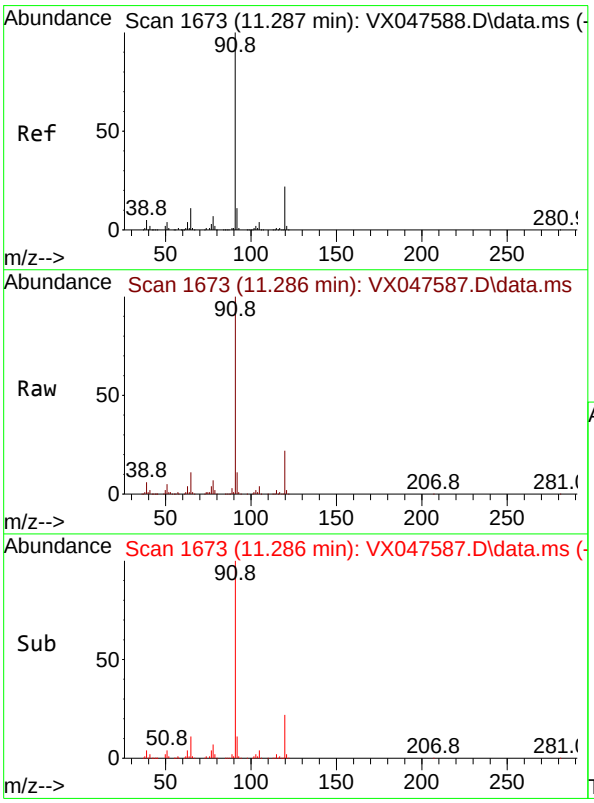
Ion	Ratio	Lower	Upper
156	100		
77	177.4	89.7	269.1
158	95.2	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

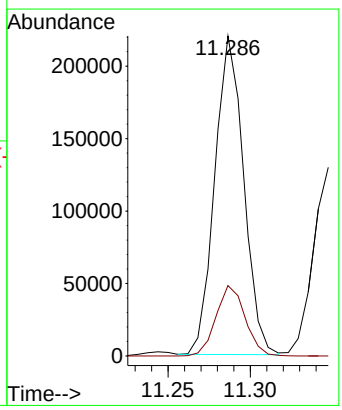
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

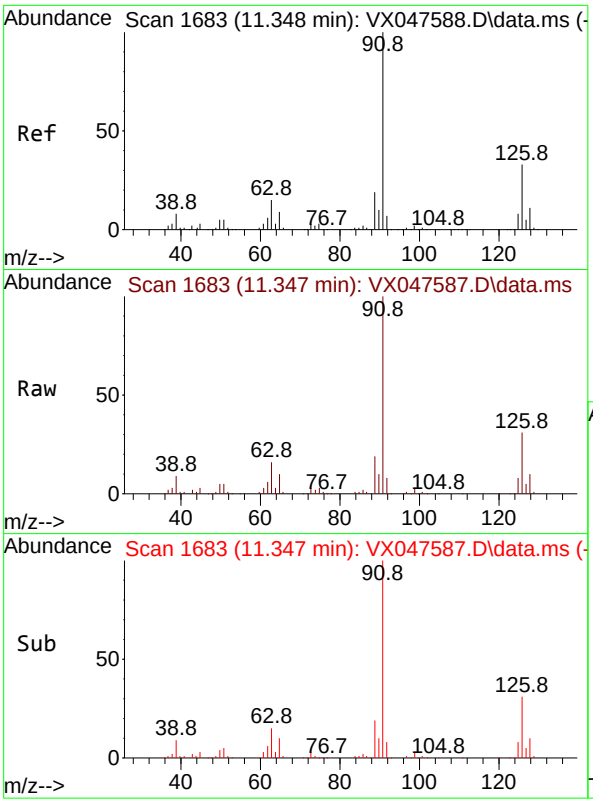


#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 268399

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1





#79
2-Chlorotoluene
Concen: 21.329 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

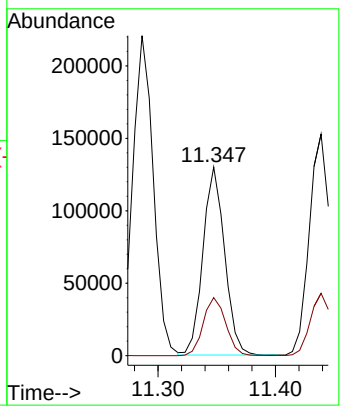
Tgt Ion: 91 Resp: 16623

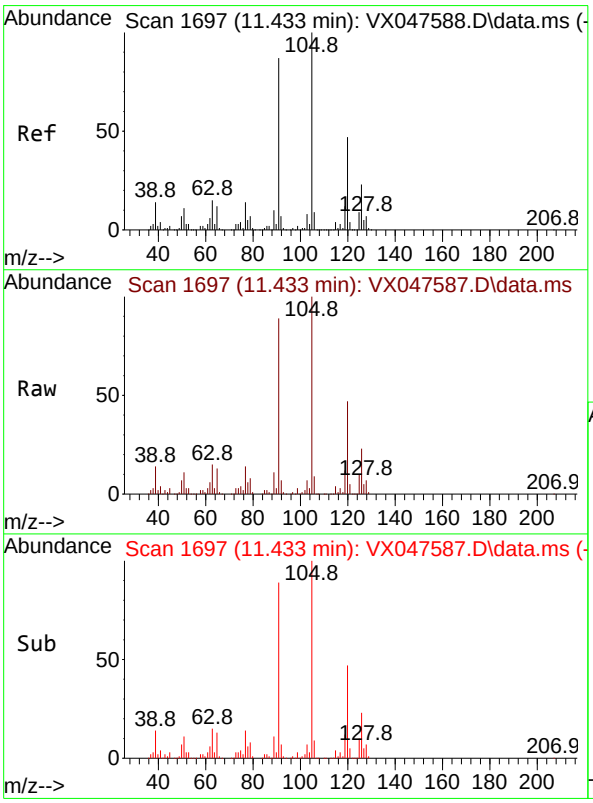
Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

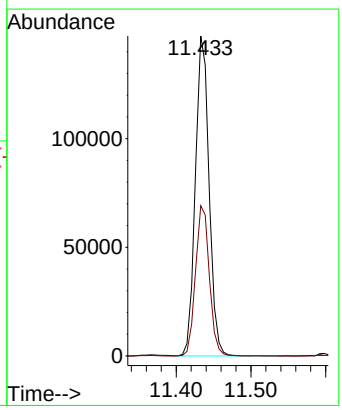


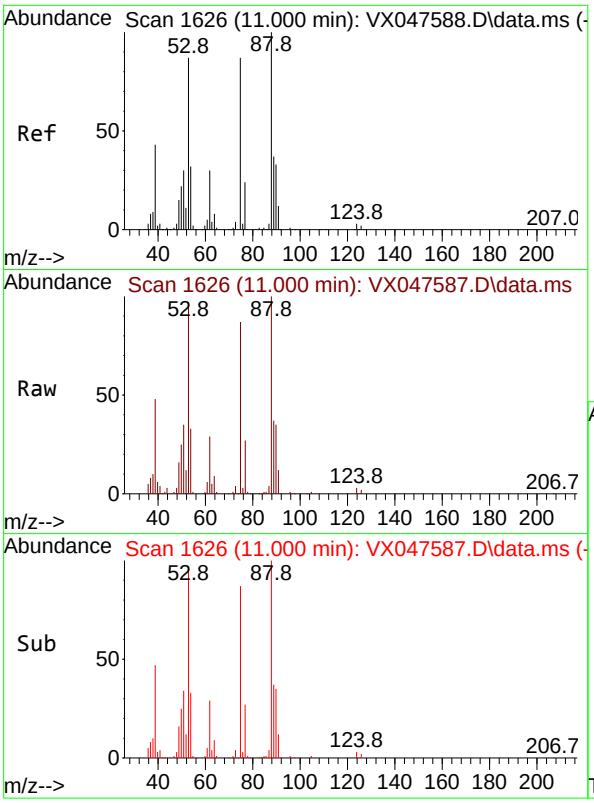


#80
1,3,5-Trimethylbenzene
Concen: 21.202 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 187513

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

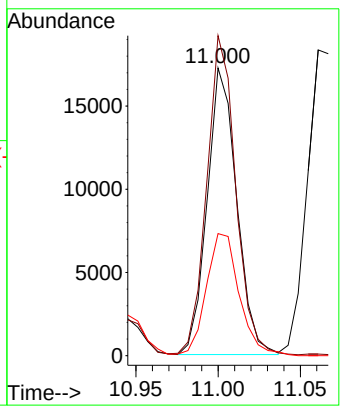
Tgt Ion: 75 Resp: 2155

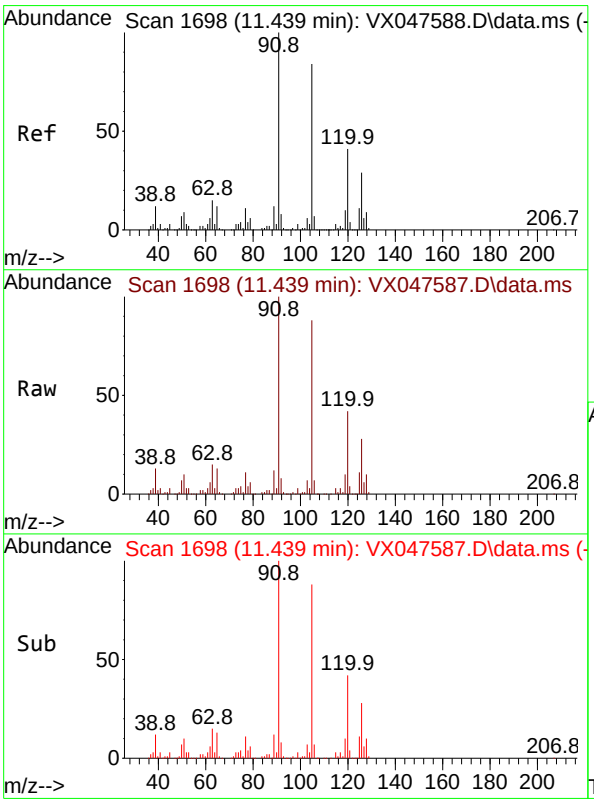
Ion	Ratio	Lower	Upper
75	100		
53	109.1	83.4	125.2
89	47.6	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

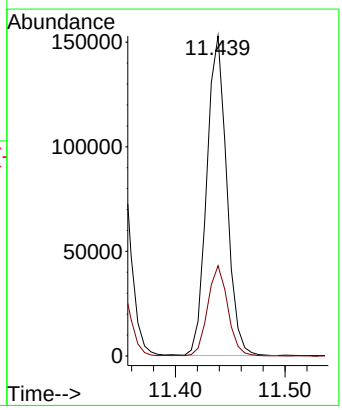


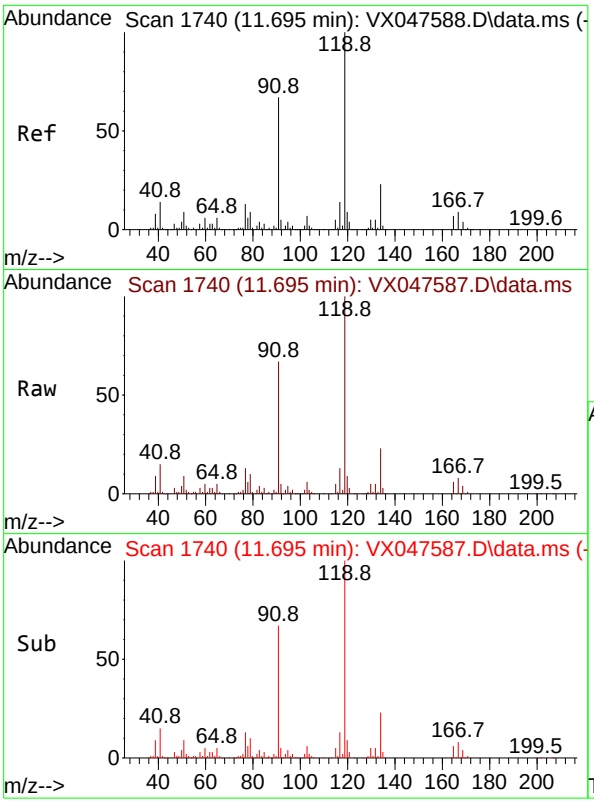


#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 193122

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

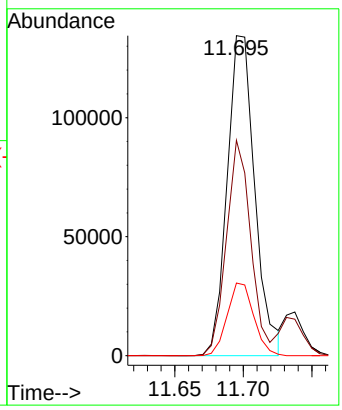




#83
tert-Butylbenzene
Concen: 20.929 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 18948

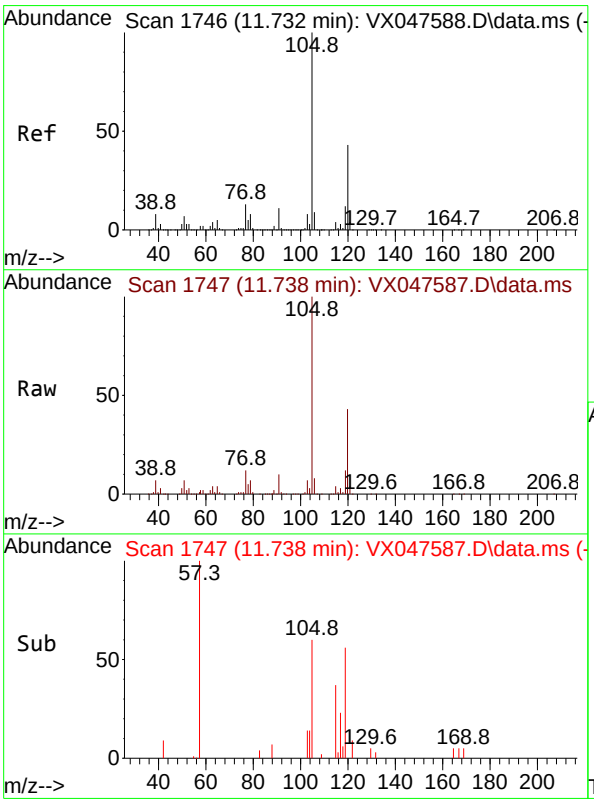
Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	21.8	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

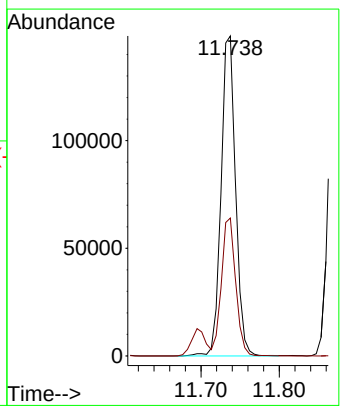
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

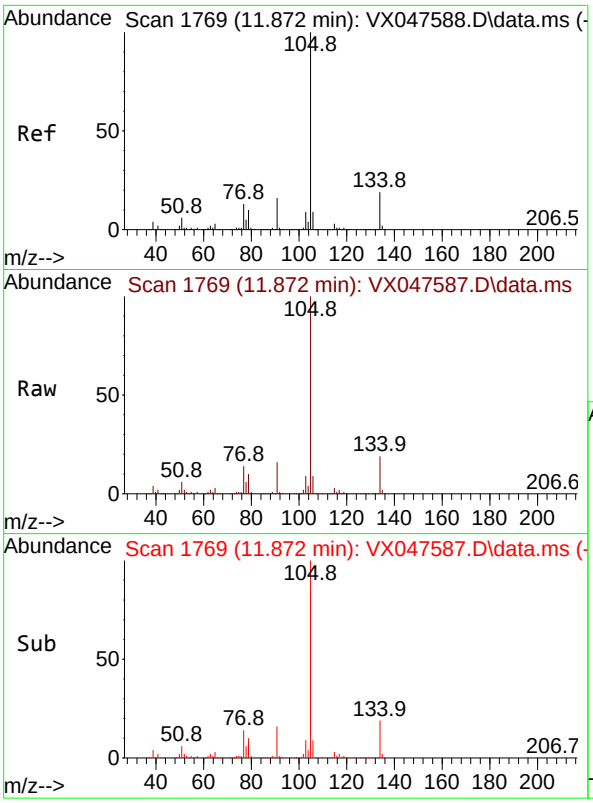


#84
1,2,4-Trimethylbenzene
Concen: 21.355 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 191477

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.1

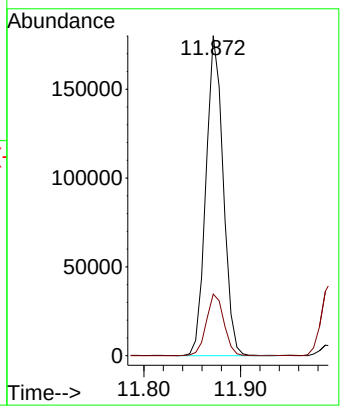




#85
sec-Butylbenzene
Concen: 20.777 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 22343

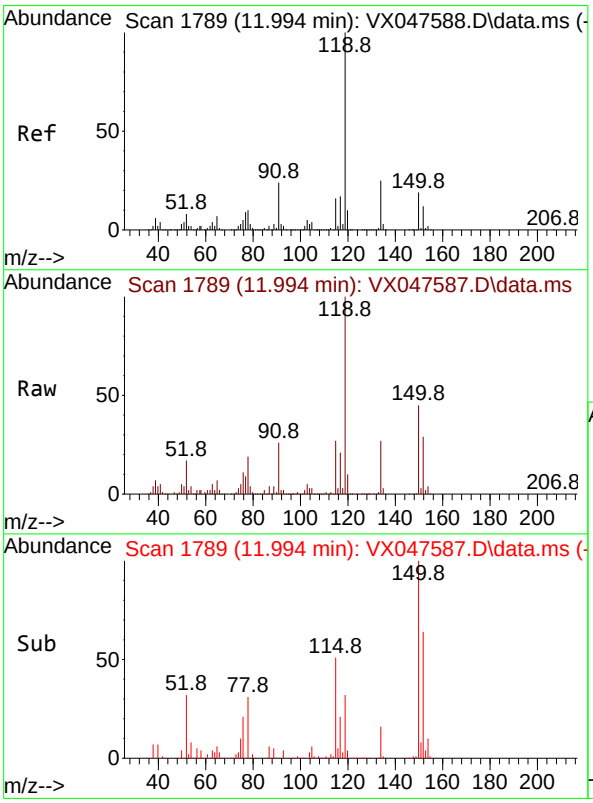
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

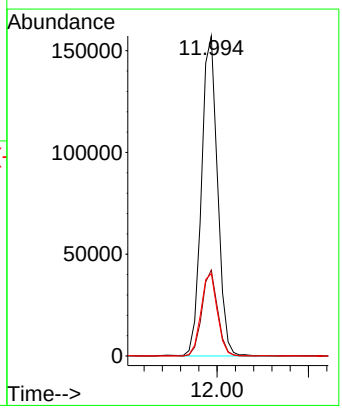
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

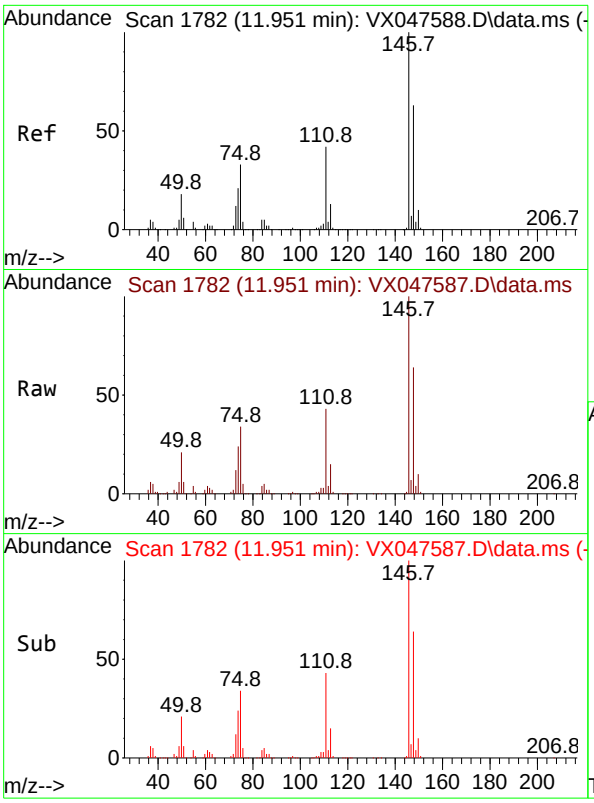


#86
p-Isopropyltoluene
Concen: 20.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 190931

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	26.2	12.6	37.6

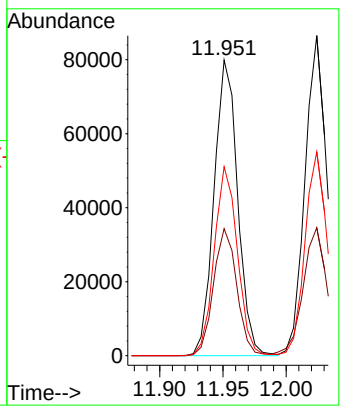




#87
1,3-Dichlorobenzene
Concen: 21.035 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 10358

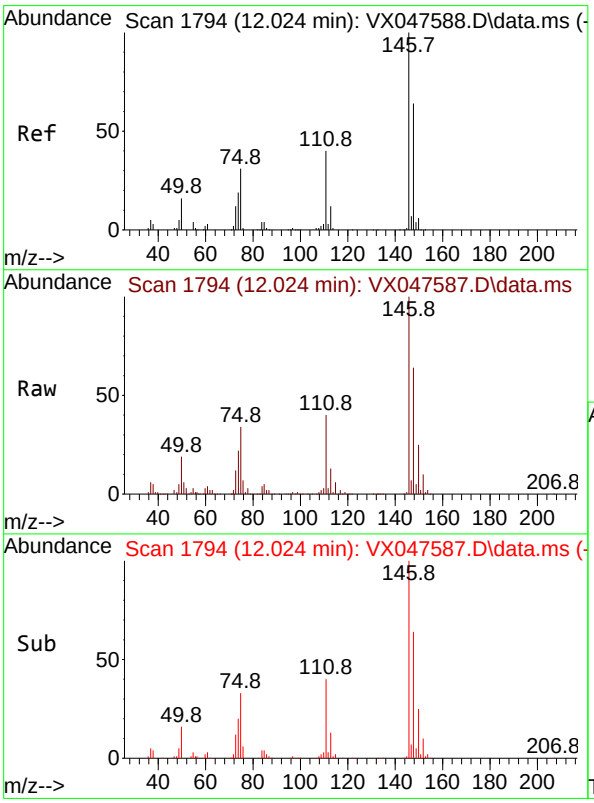
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	62.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

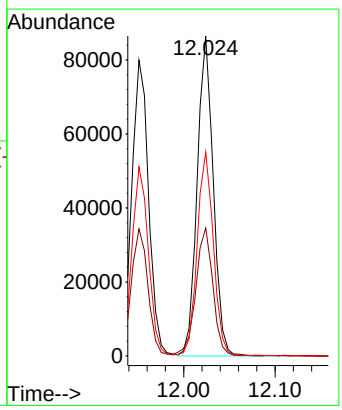
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

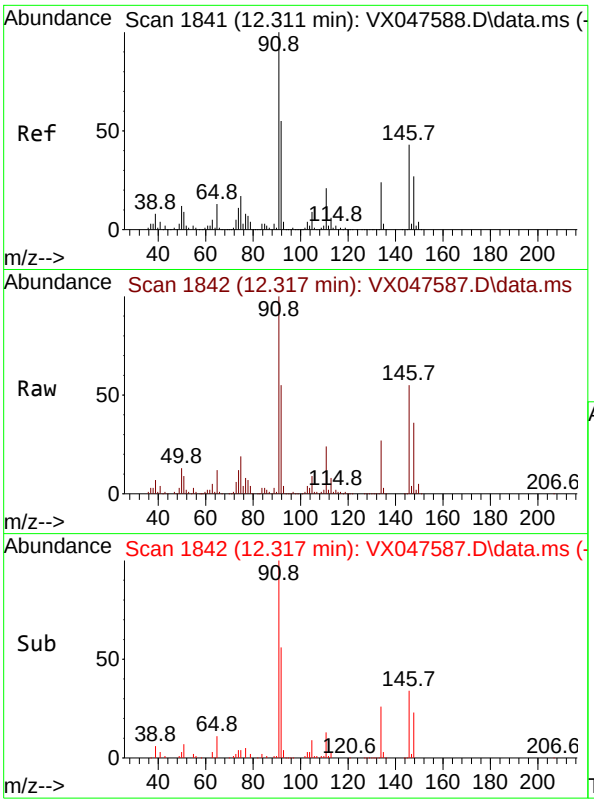


#88
1,4-Dichlorobenzene
Concen: 20.937 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 105819

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.4	31.7	95.1

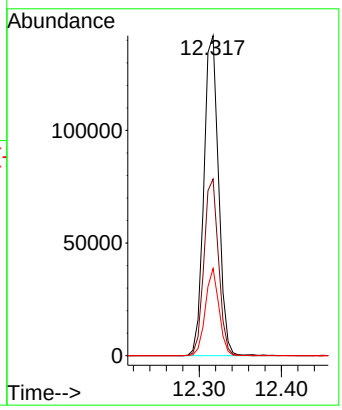




#89
n-Butylbenzene
Concen: 20.937 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 17637

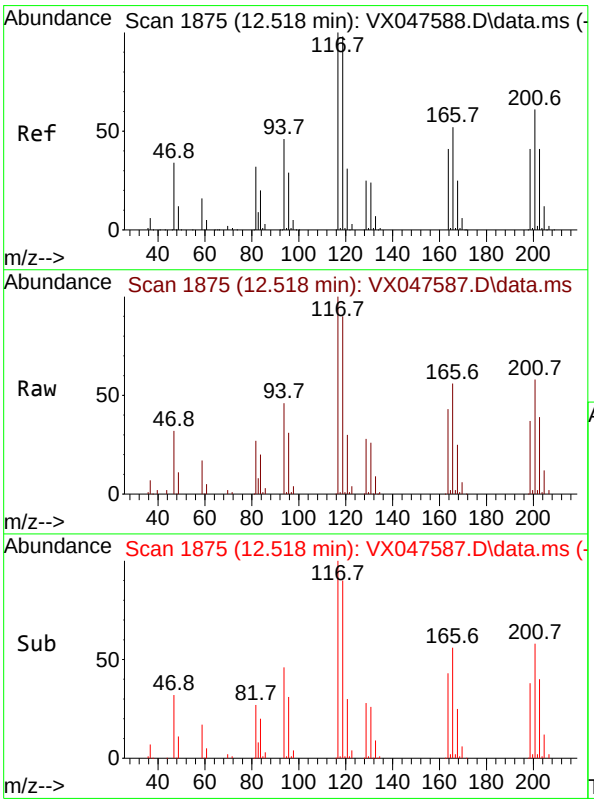
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

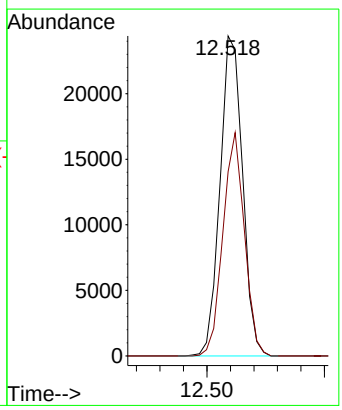
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

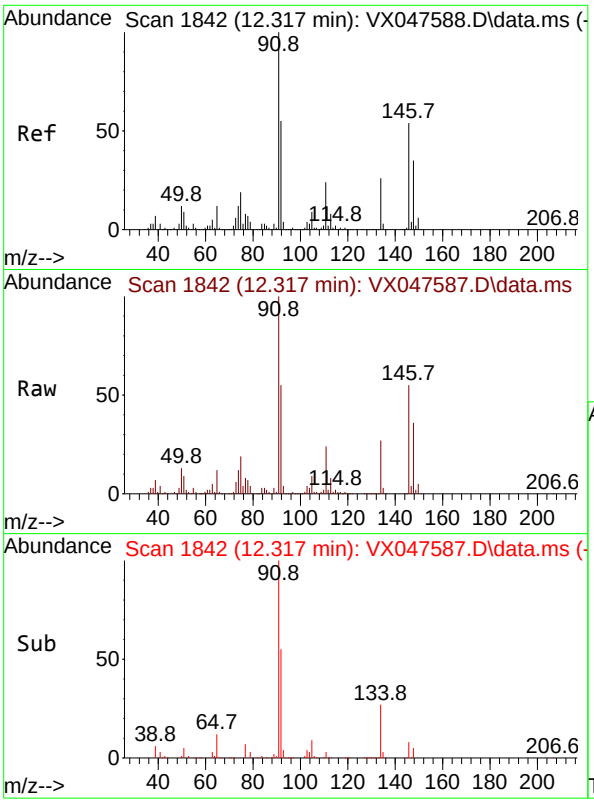


#90
Hexachloroethane
Concen: 20.349 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 32526

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5

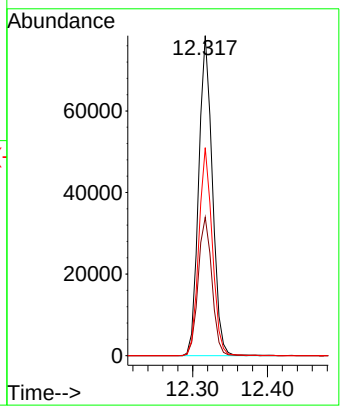




#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 9949

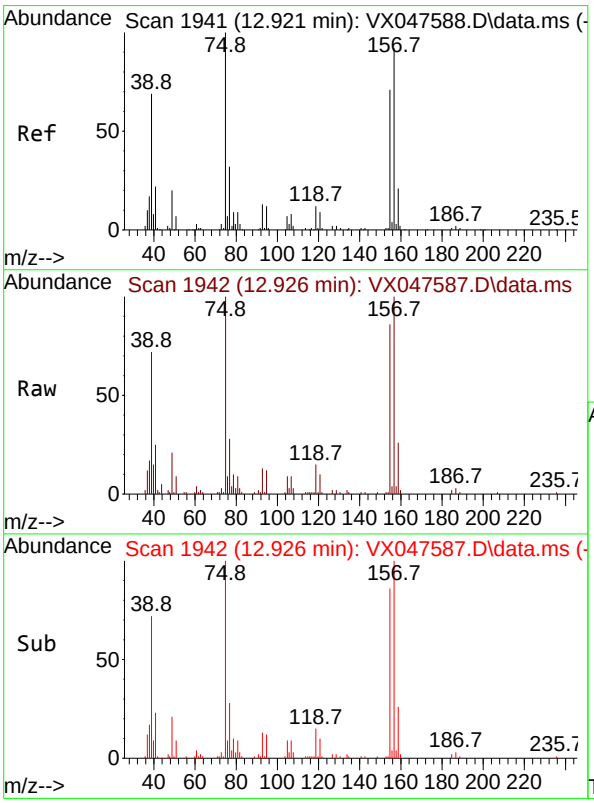
Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.2	66.6
148	63.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

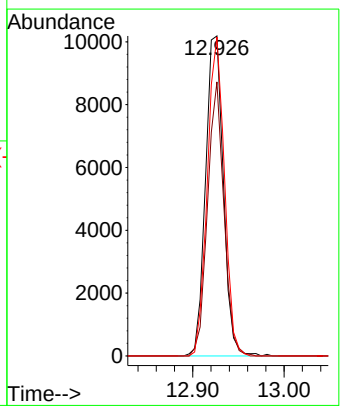
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

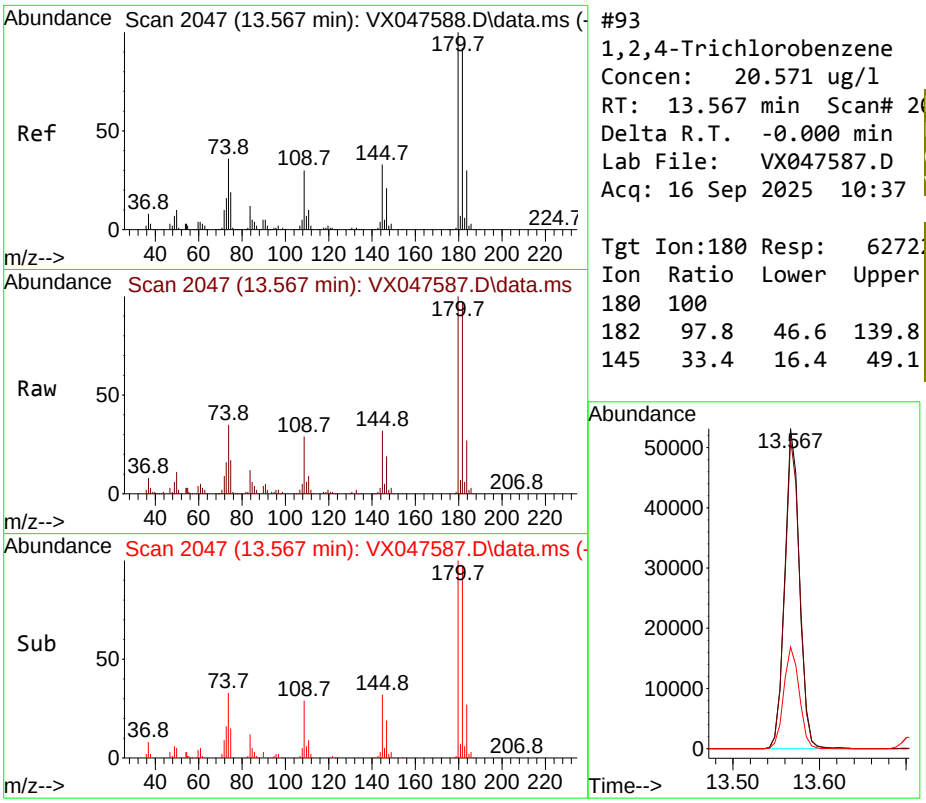


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.821 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 13729

Ion	Ratio	Lower	Upper
75	100		
155	78.8	37.7	113.1
157	95.9	49.8	149.4





#93
1,2,4-Trichlorobenzene
Concen: 20.571 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

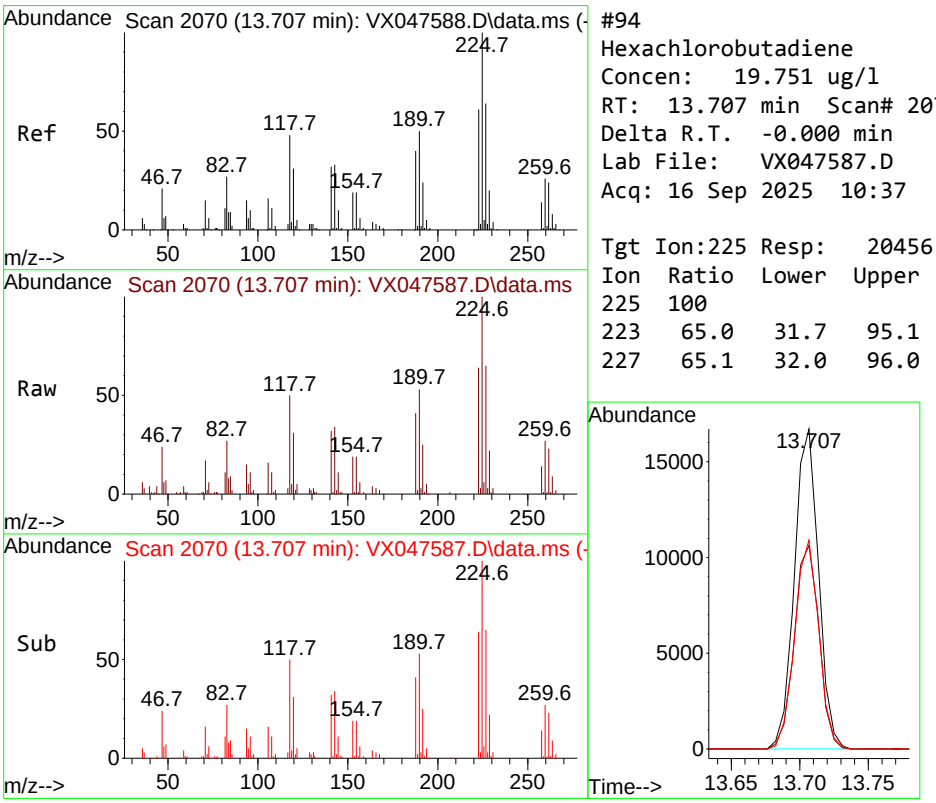
Tgt Ion:180 Resp: 6272

Ion	Ratio	Lower	Upper
180	100		
182	97.8	46.6	139.8
145	33.4	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

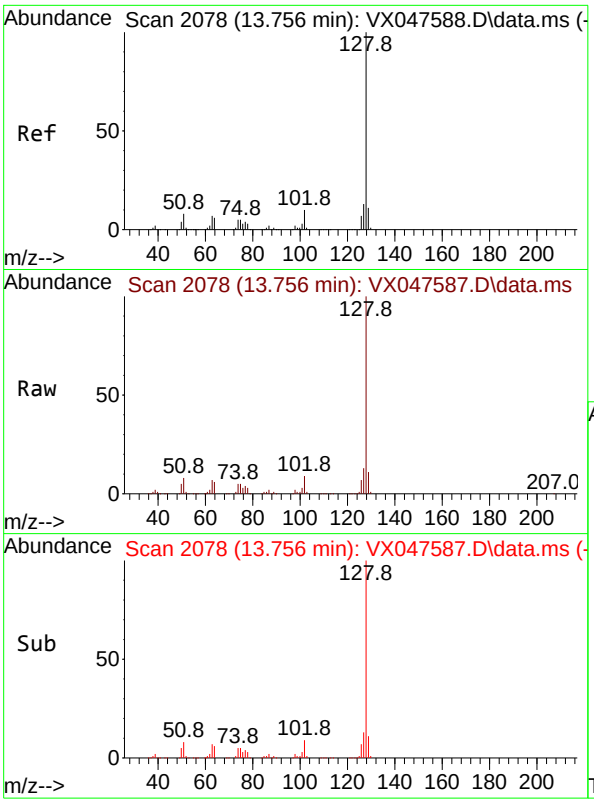
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#94
Hexachlorobutadiene
Concen: 19.751 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:225 Resp: 20456

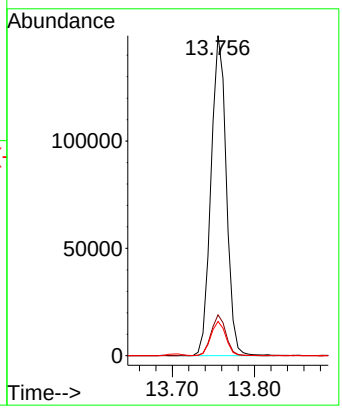
Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.7	95.1
227	65.1	32.0	96.0



#95
Naphthalene
Concen: 20.801 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:128 Resp: 19313

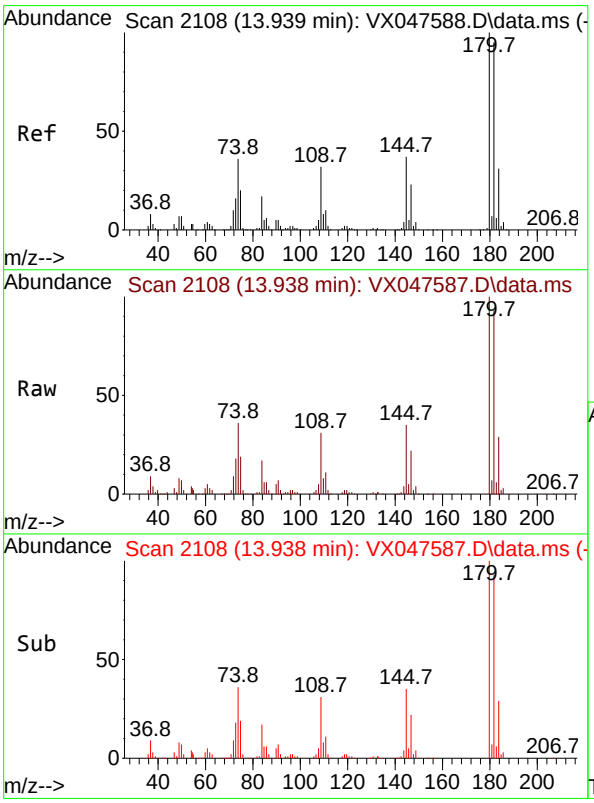
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	10.5	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

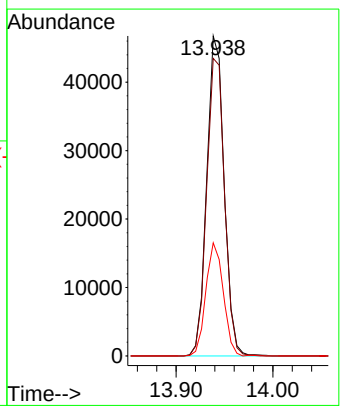
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.593 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:180 Resp: 58409

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.5	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 96.800%			
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.600%			
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.860%			
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707	ug/l		100
42) 1,2-Dichloroethane	6.074	62	179037	51.431	ug/l		100
43) Isopropyl Acetate	6.324	43	275572	52.096	ug/l		100
44) Trichloroethene	7.111	130	113832	51.463	ug/l		100
45) 1,2-Dichloropropane	7.415	63	122109	52.122	ug/l		100
46) Dibromomethane	7.568	93	88505	51.914	ug/l		100
47) Bromodichloromethane	7.806	83	186540	53.025	ug/l		100
48) Methyl methacrylate	7.678	41	138167	52.438	ug/l		100
49) 1,4-Dioxane	7.647	88	29496	1107.698	ug/l		100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650	ug/l		100
52) Toluene	8.702	92	288853	51.244	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369	ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915	ug/l		100
56) Ethyl methacrylate	9.104	69	184087	53.930	ug/l		100
57) 1,3-Dichloropropane	9.293	76	195989	52.492	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309	ug/l		100
59) 2-Hexanone	9.415	43	553313	262.683	ug/l		100
60) Dibromochloromethane	9.506	129	133737	53.401	ug/l		100
61) 1,2-Dibromoethane	9.592	107	116462	52.607	ug/l		100
64) Tetrachloroethene	9.257	164	88149	50.074	ug/l		100
65) Chlorobenzene	10.061	112	317982	51.833	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835	ug/l		100
67) Ethyl Benzene	10.177	91	550610	52.017	ug/l		100
68) m/p-Xylenes	10.287	106	412932	104.809	ug/l		100
69) o-Xylene	10.622	106	202291	53.084	ug/l		100
70) Styrene	10.640	104	350654	52.515	ug/l		100
71) Bromoform	10.781	173	84485	53.447	ug/l	#	100
73) Isopropylbenzene	10.945	105	516891	53.227	ug/l		100
74) N-amyl acetate	10.829	43	237846	53.710	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251	ug/l		100
76) 1,2,3-Trichloropropane	11.220	75	144074m	54.322	ug/l		
77) Bromobenzene	11.183	156	126174	52.754	ug/l		100
78) n-propylbenzene	11.287	91	612035	53.315	ug/l		100
79) 2-Chlorotoluene	11.348	91	372397	52.965	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190	ug/l		100
82) 4-Chlorotoluene	11.439	91	438502	52.806	ug/l		100
83) tert-Butylbenzene	11.695	119	429107	52.539	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798	ug/l		100
85) sec-Butylbenzene	11.872	105	514442	53.029	ug/l		100
86) p-Isopropyltoluene	11.994	119	436704	53.172	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316	ug/l		100
89) n-Butylbenzene	12.311	91	400997	52.766	ug/l		100
90) Hexachloroethane	12.518	117	75800	52.567	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685	ug/l		100
94) Hexachlorobutadiene	13.707	225	49061	52.510	ug/l		100
95) Naphthalene	13.756	128	452013	53.966	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

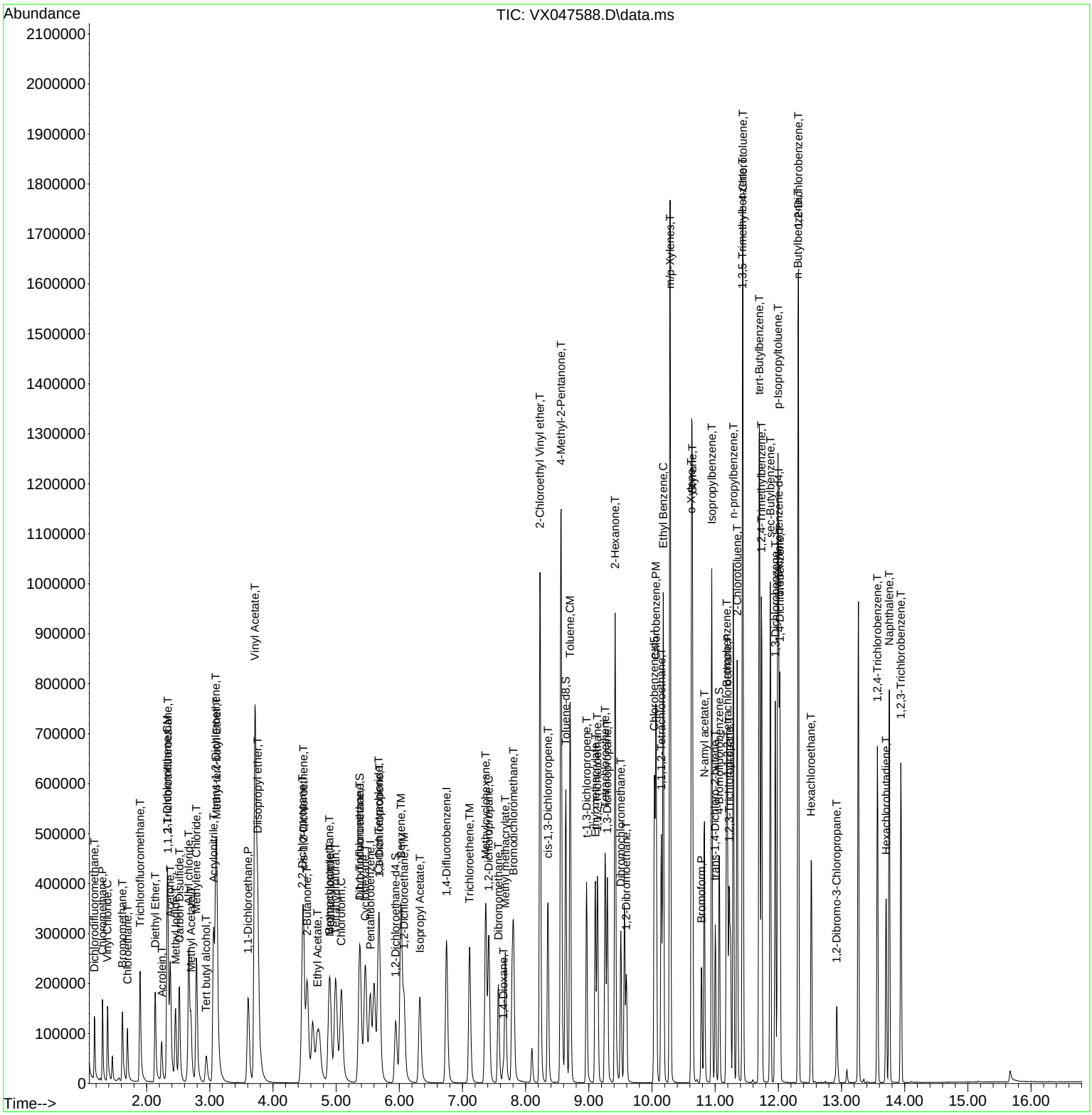
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

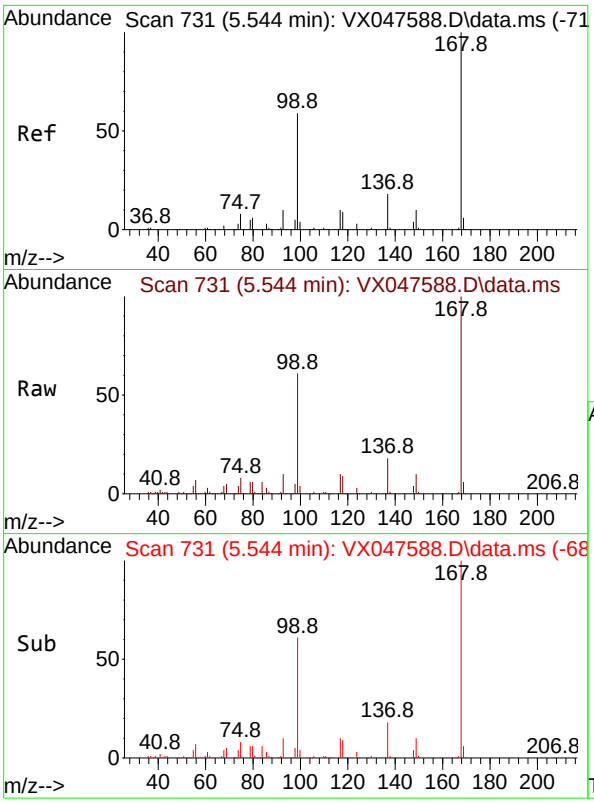
Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

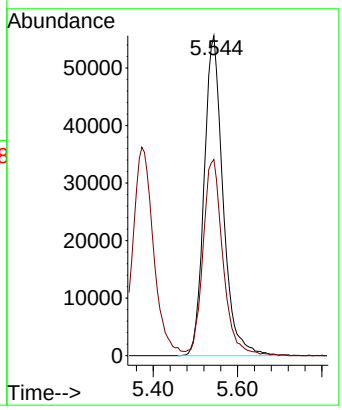




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:168 Resp: 17340

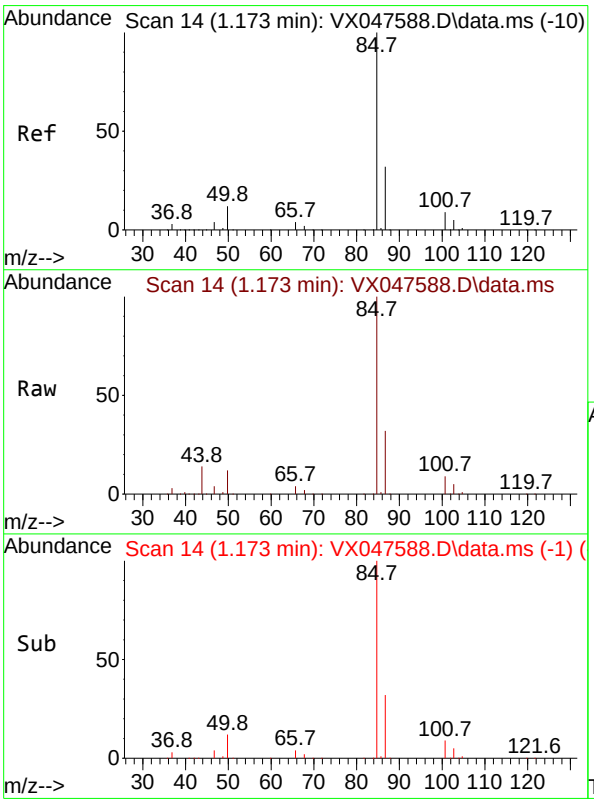
Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

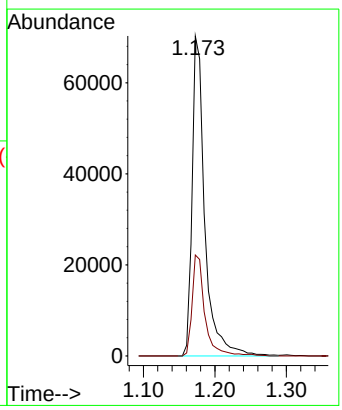
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

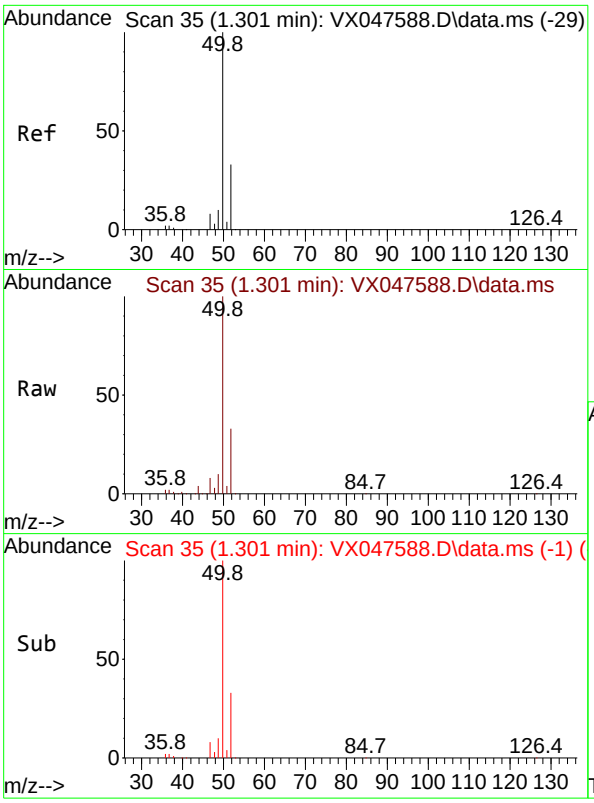


#2
Dichlorodifluoromethane
Concen: 48.352 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 85 Resp: 86824

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

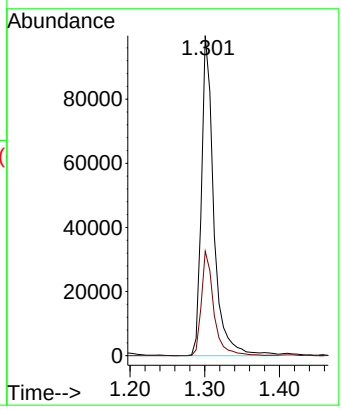




#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 50 Resp: 11468

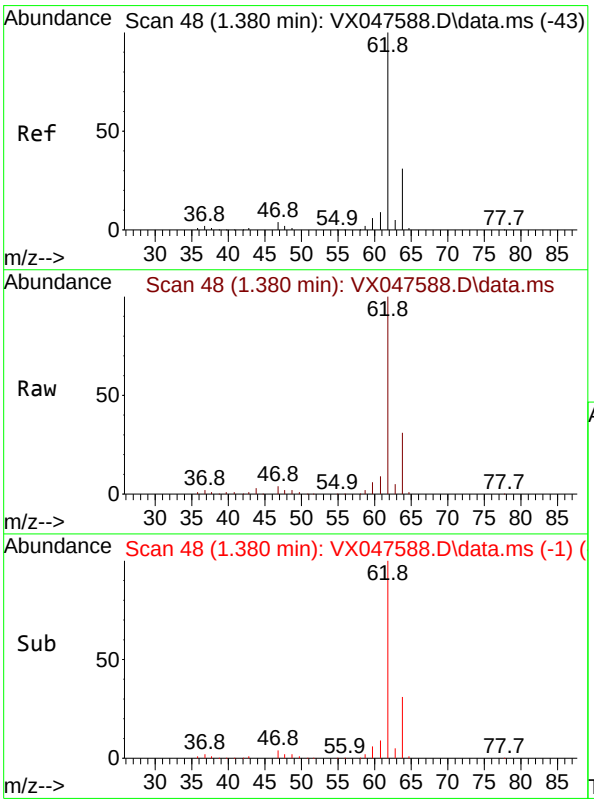
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

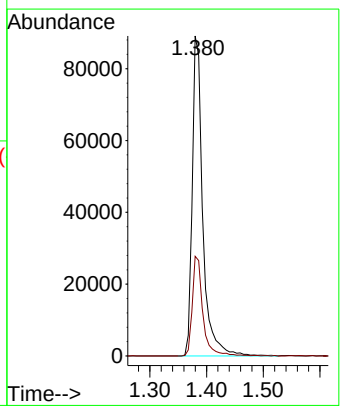
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

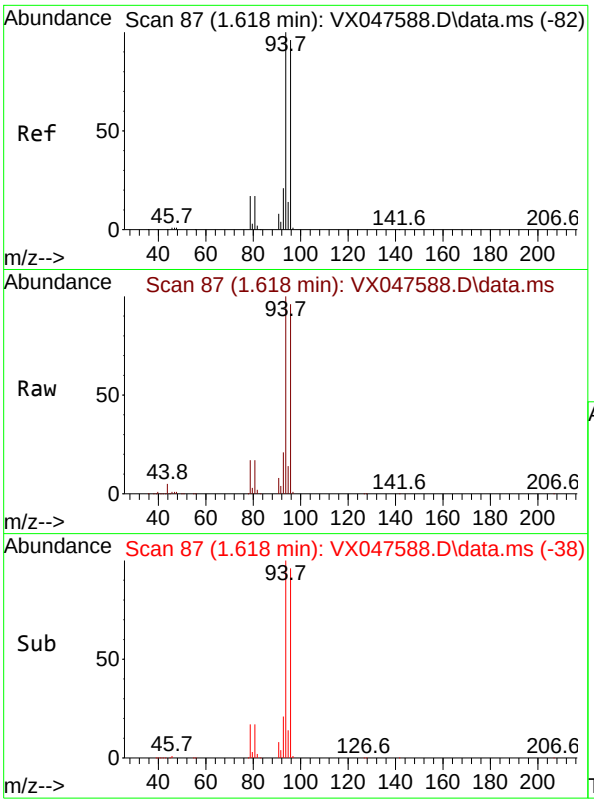


#4
Vinyl Chloride
Concen: 49.635 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 114666

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

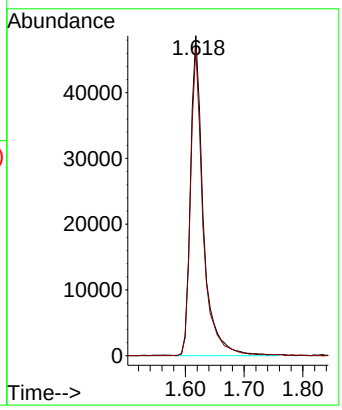




#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 94 Resp: 7356

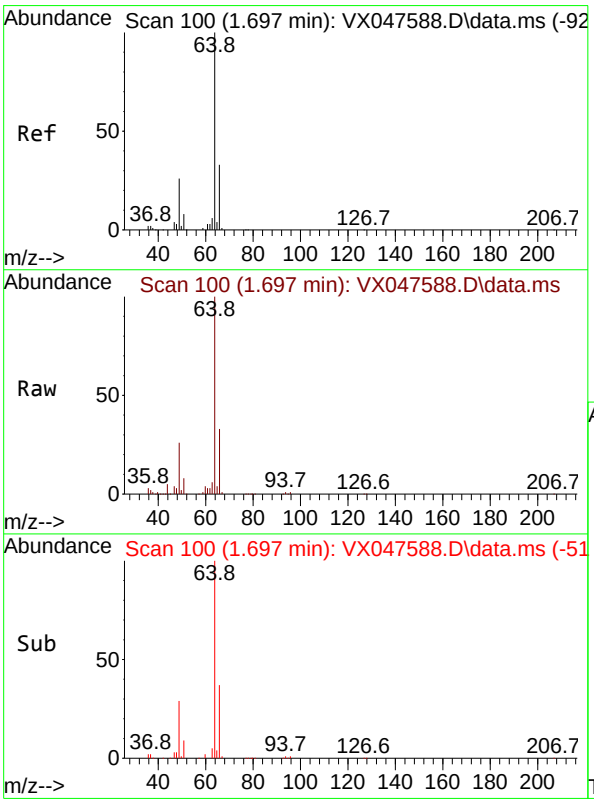
Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

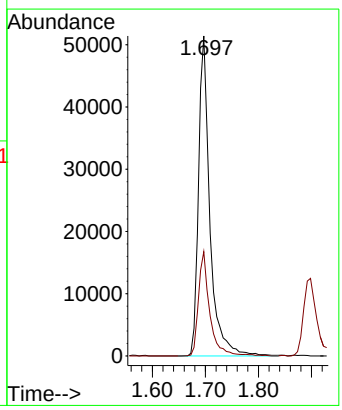
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

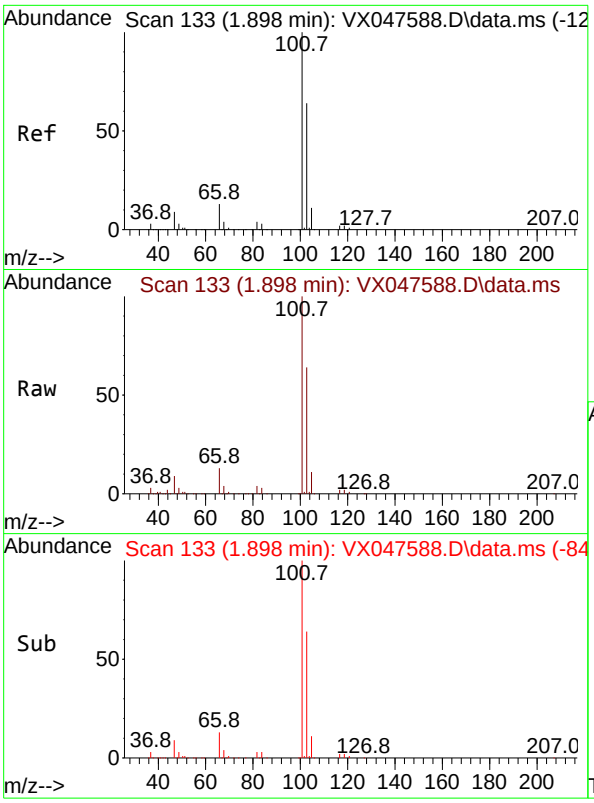


#6
Chloroethane
Concen: 49.698 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 64 Resp: 76736

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.1	39.1

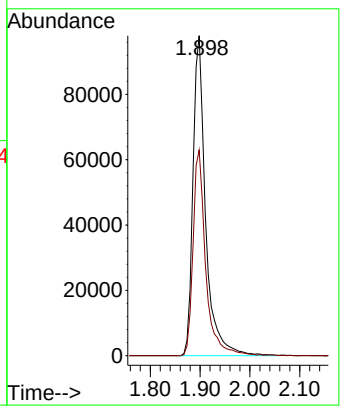




#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:101 Resp: 17256

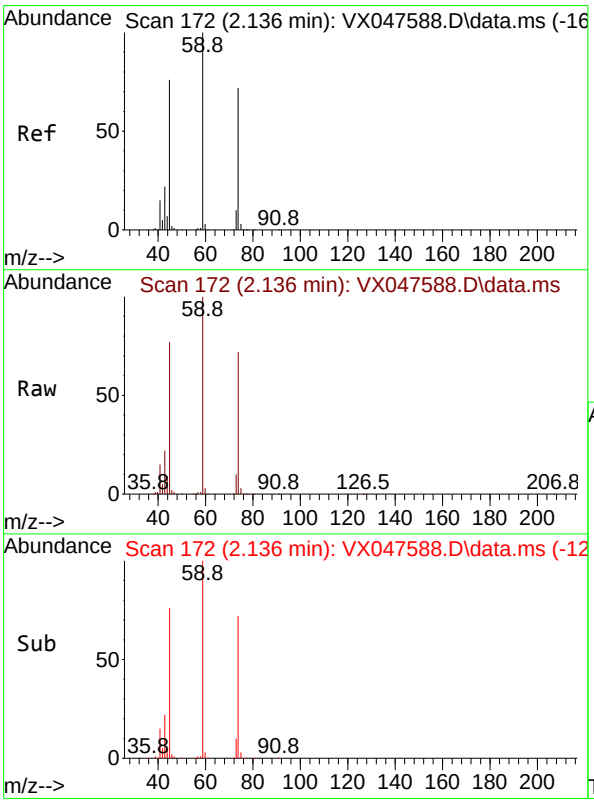
Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

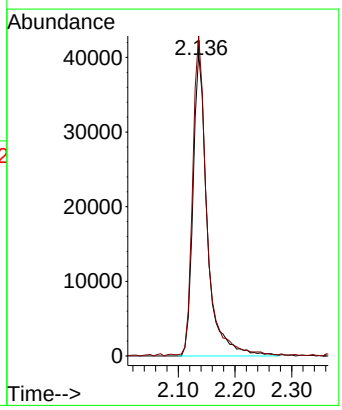
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

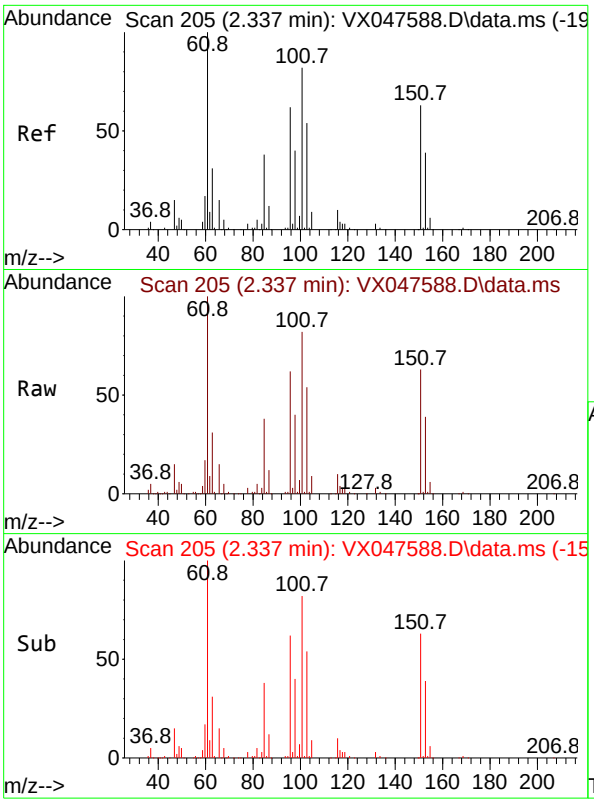


#8
Diethyl Ether
Concen: 50.510 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 74 Resp: 70874

Ion	Ratio	Lower	Upper
74	100		
45	104.5	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.445 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

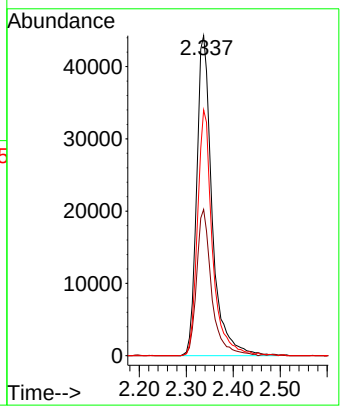
Tgt Ion:101 Resp: 10117

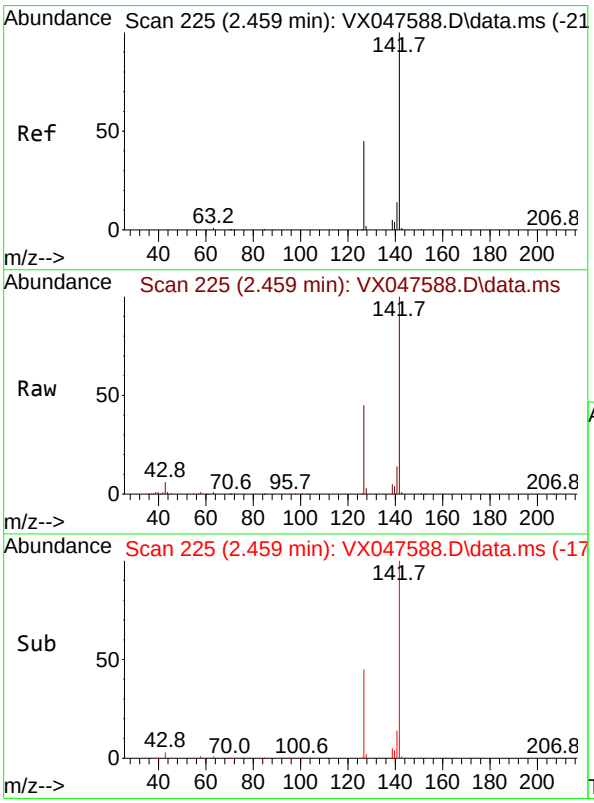
Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	74.2	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

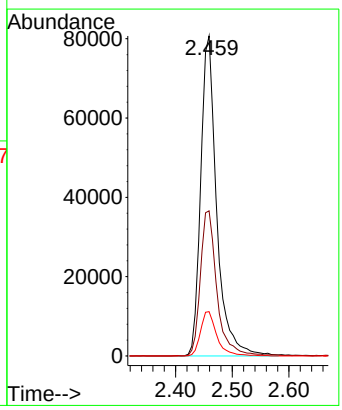


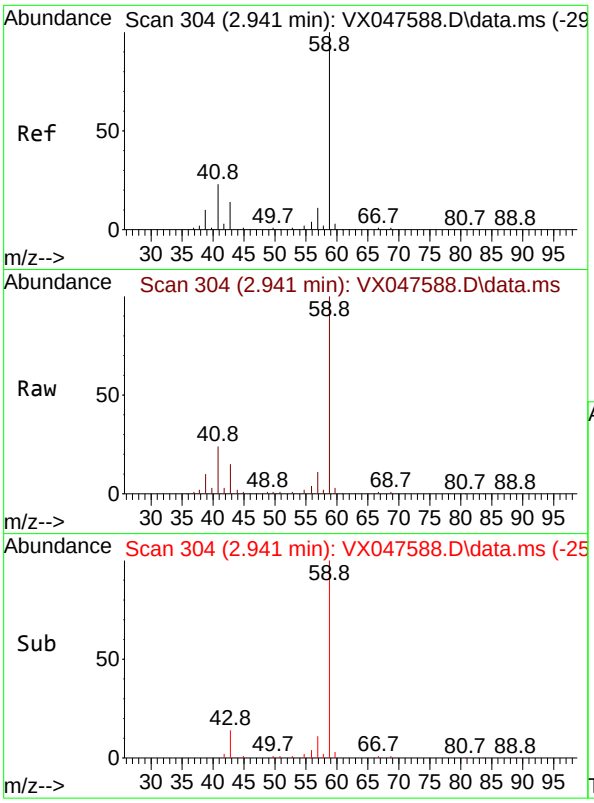


#10
Methyl Iodide
Concen: 50.525 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:142 Resp: 158046

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.2	11.4	17.0

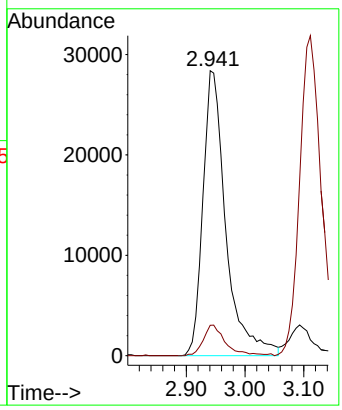




#11
Tert butyl alcohol
Concen: 251.232 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 59 Resp: 7723

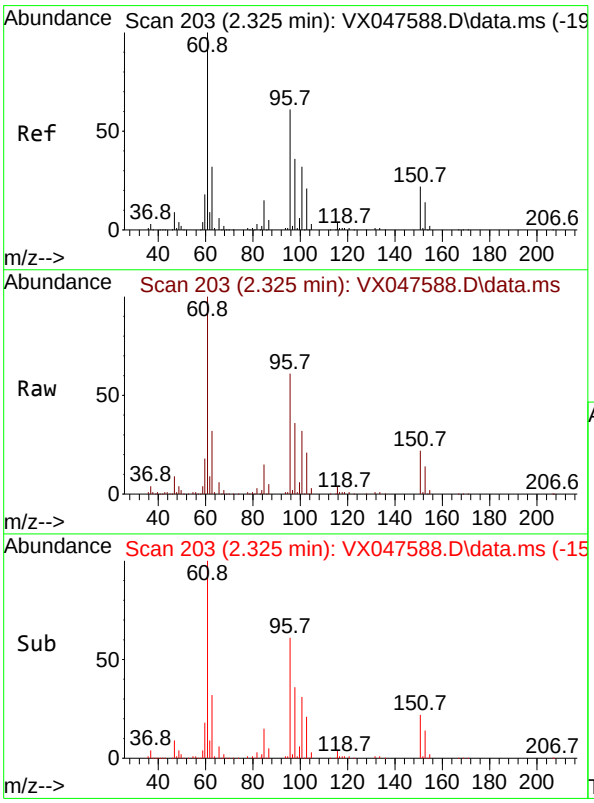
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

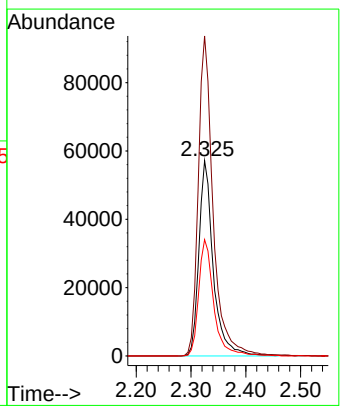
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

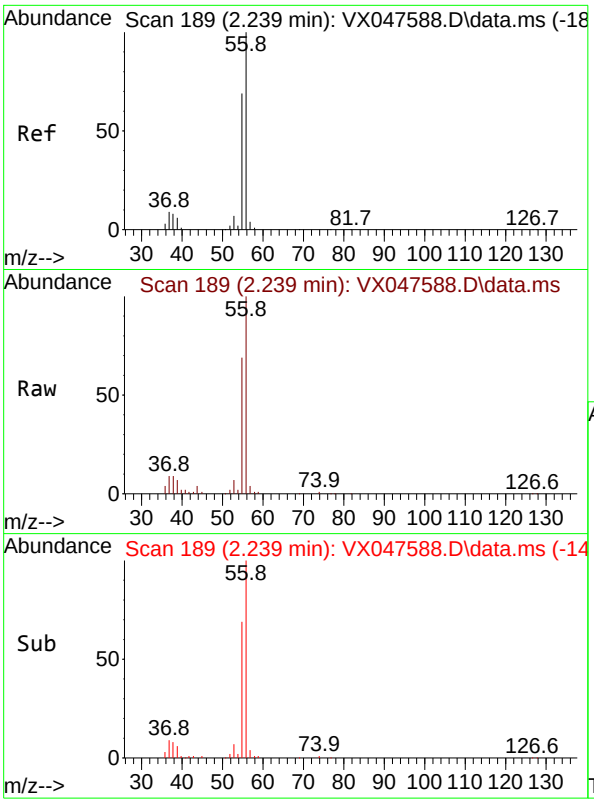


#12
1,1-Dichloroethene
Concen: 50.831 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 104724

Ion	Ratio	Lower	Upper
96	100		
61	163.8	131.0	196.6
98	59.6	47.7	71.5

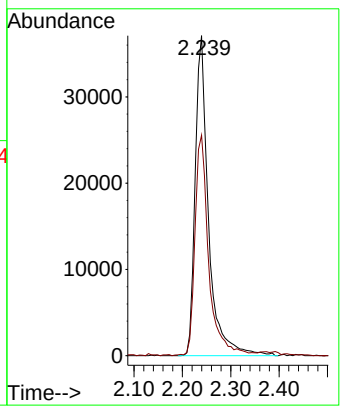




#13
Acrolein
Concen: 249.645 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 56 Resp: 7072

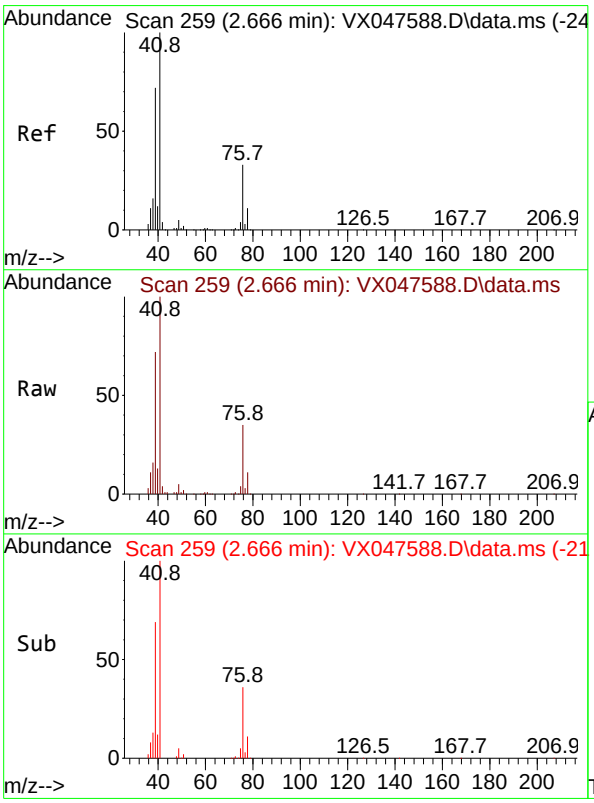
Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

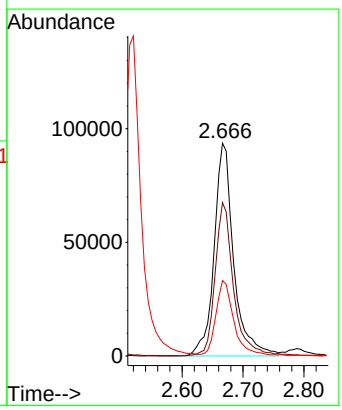
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

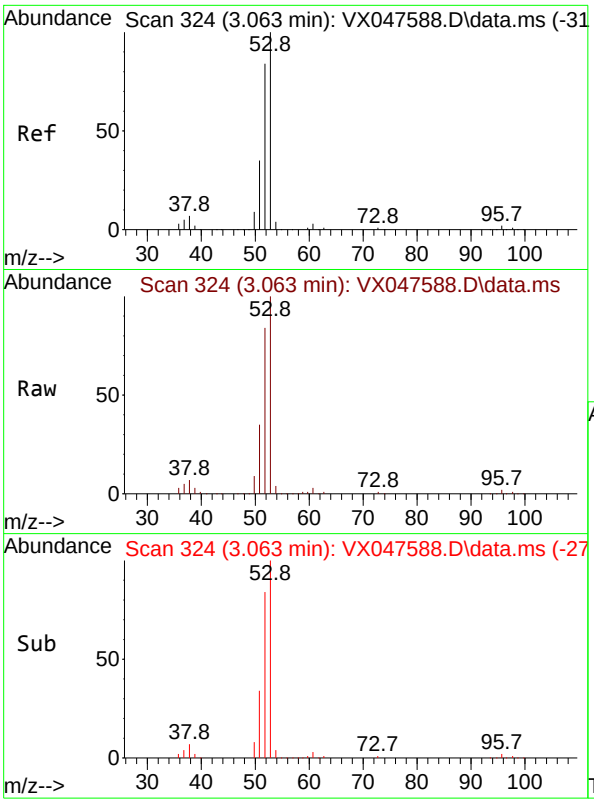


#14
Allyl chloride
Concen: 49.396 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 210001

Ion	Ratio	Lower	Upper
41	100		
39	68.4	54.7	82.1
76	32.1	25.7	38.5

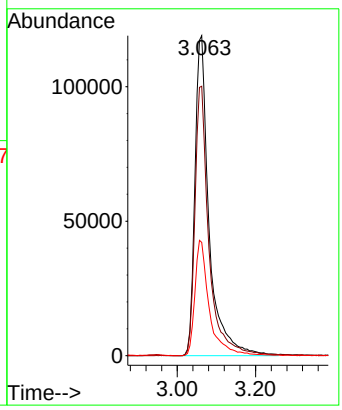




#15
Acrylonitrile
Concen: 264.027 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 53 Resp: 30064

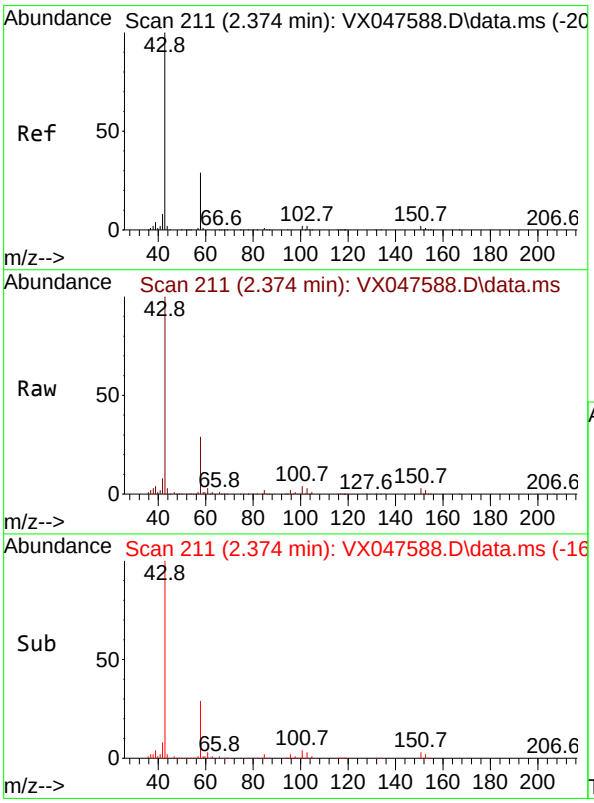
Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.4	99.6
51	36.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

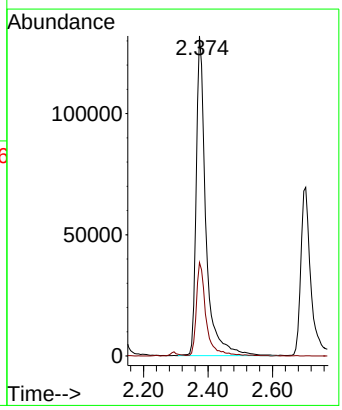
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

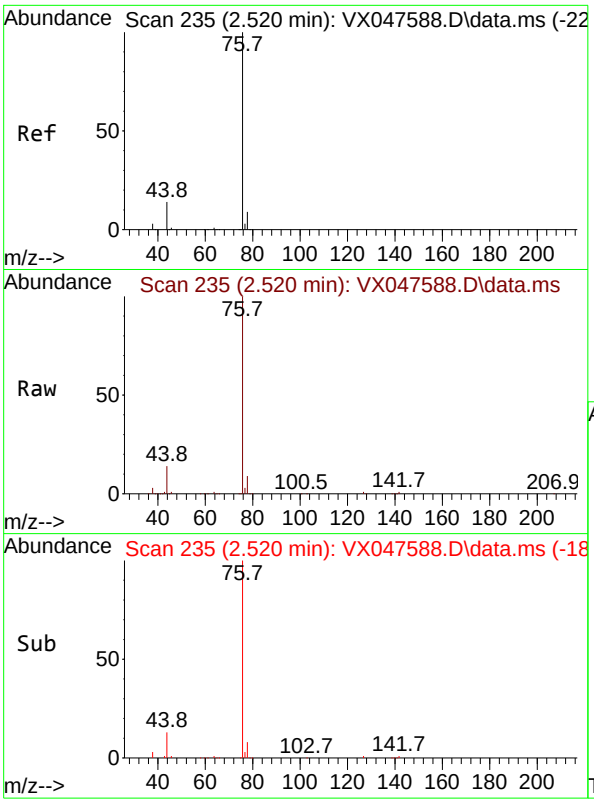


#16
Acetone
Concen: 229.193 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 275065

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.4	35.0

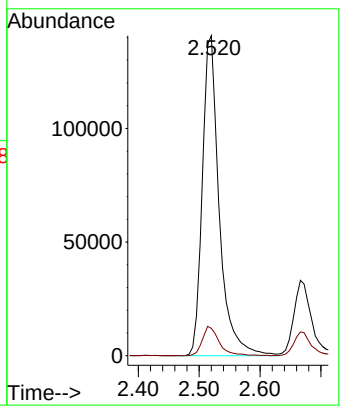




#17
Carbon Disulfide
Concen: 48.133 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 76 Resp: 27148

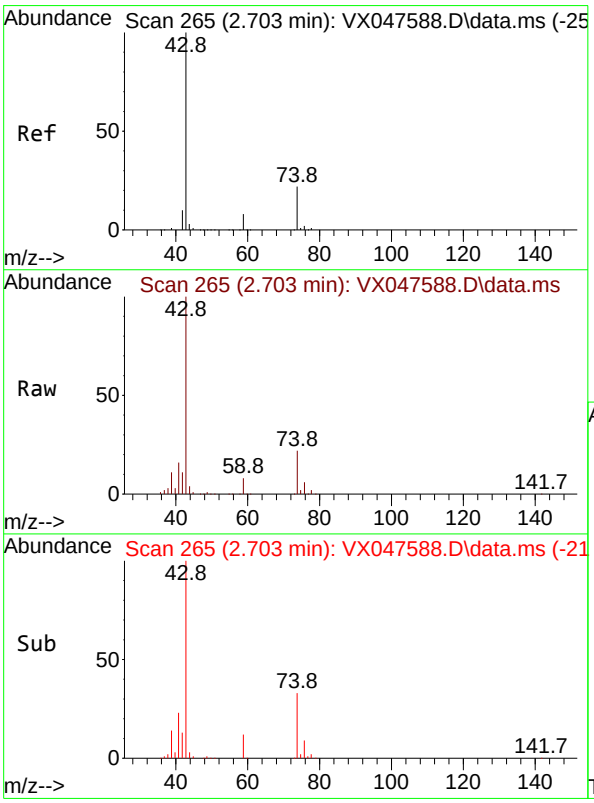
Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

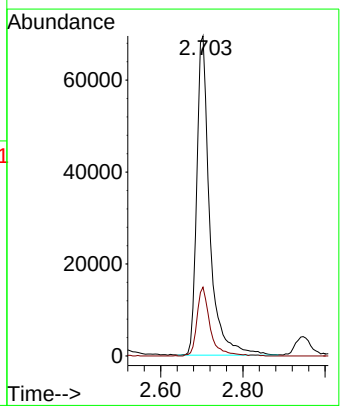
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

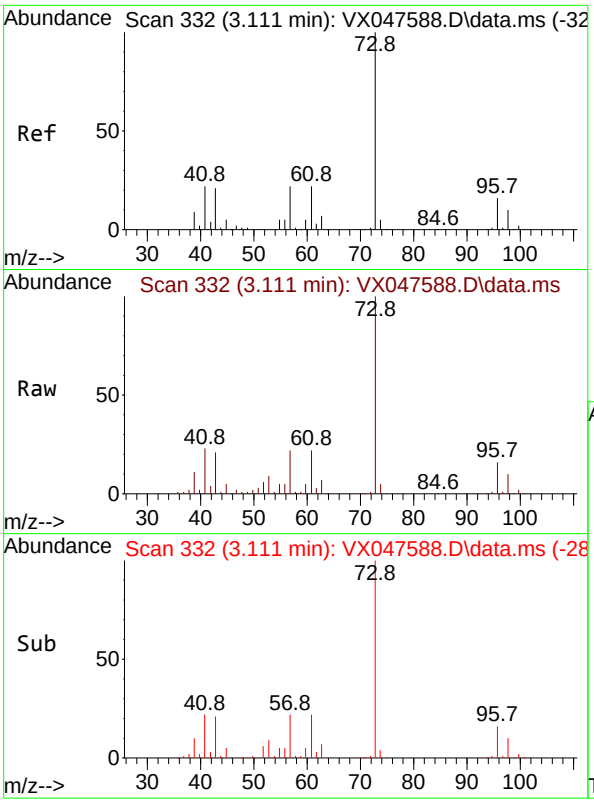


#18
Methyl Acetate
Concen: 56.897 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 151968

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

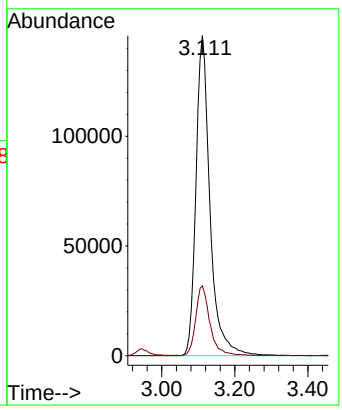




#19
Methyl tert-butyl Ether
Concen: 51.804 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 73 Resp: 38960

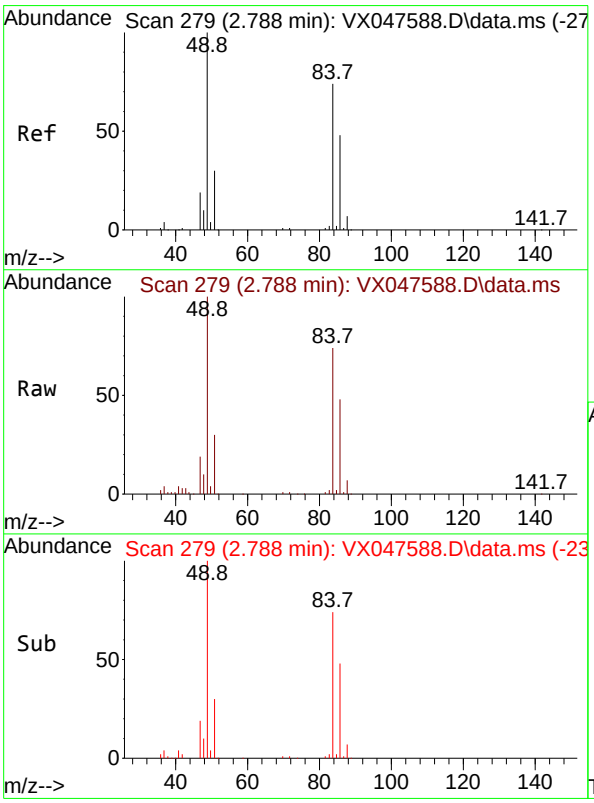
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

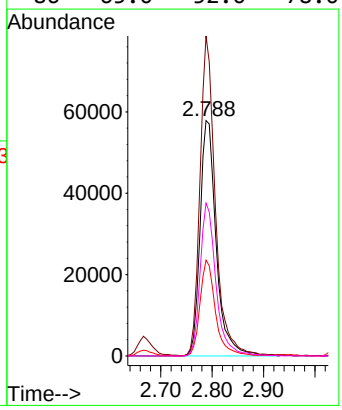
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

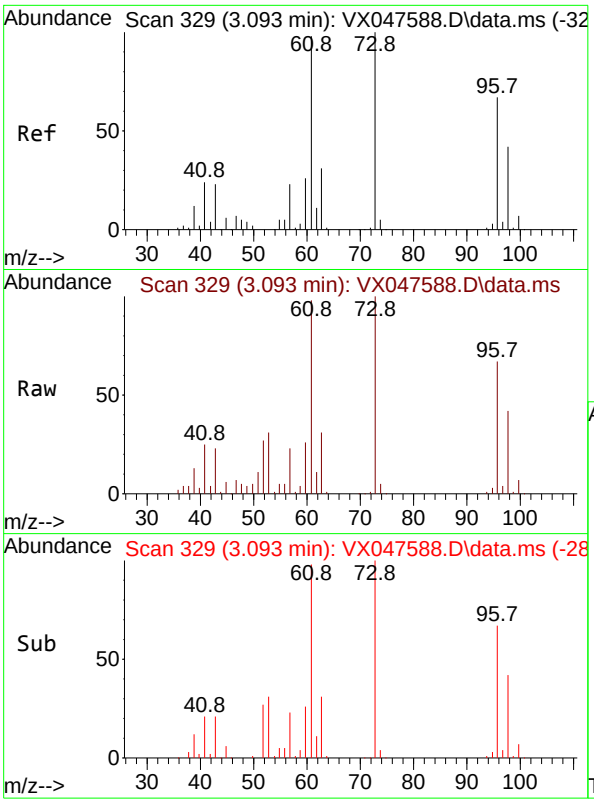


#20
Methylene Chloride
Concen: 49.798 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 84 Resp: 126506

Ion	Ratio	Lower	Upper
84	100		
49	135.7	108.6	162.8
51	40.7	32.6	48.8
86	65.0	52.0	78.0

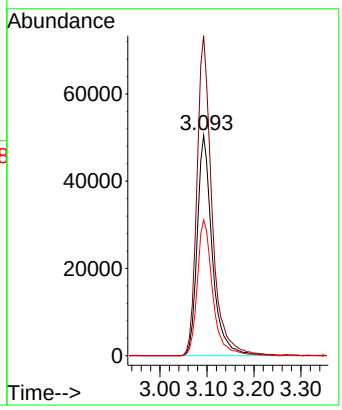




#21
trans-1,2-Dichloroethene
Concen: 50.743 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 11255

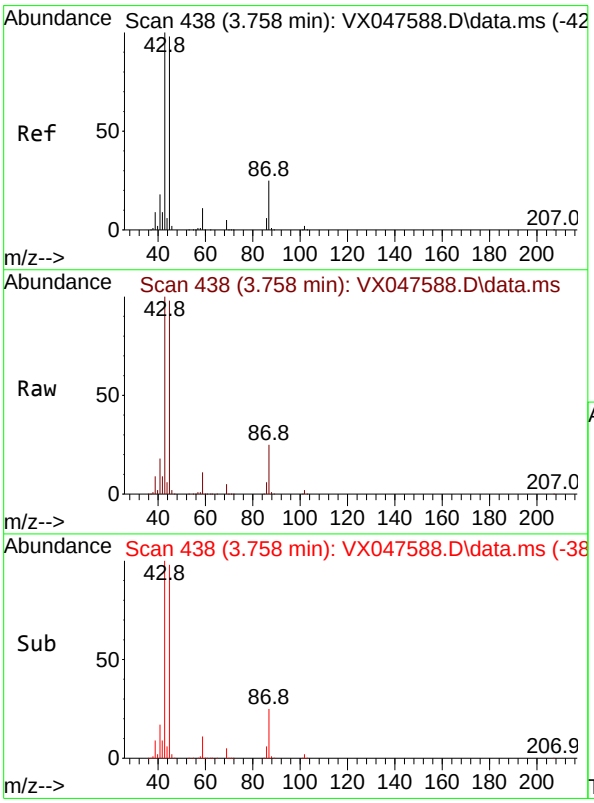
Ion	Ratio	Lower	Upper
96	100		
61	145.2	116.2	174.2
98	61.6	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

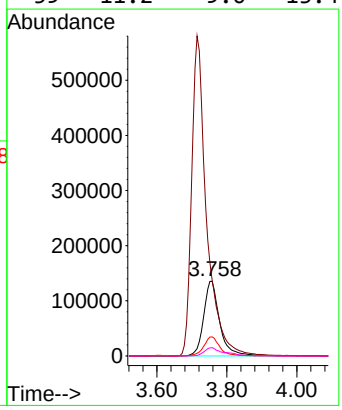
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

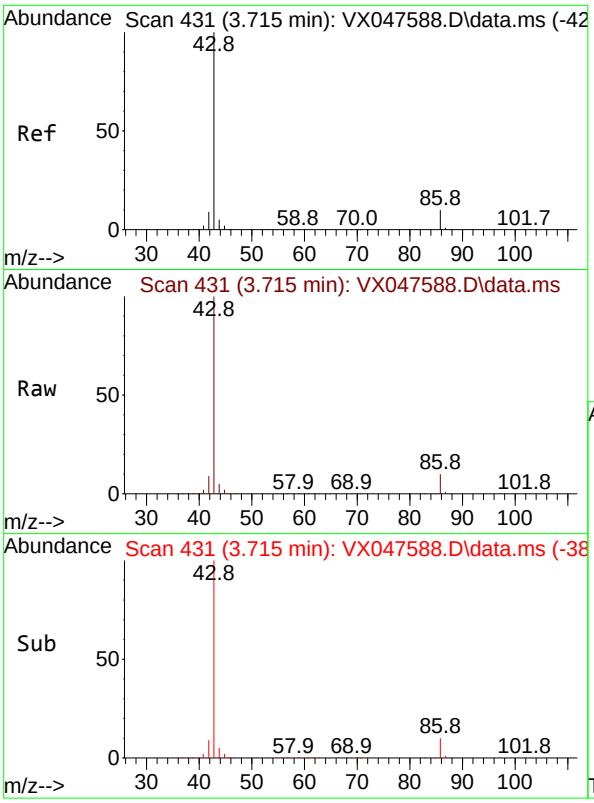


#22
Diisopropyl ether
Concen: 52.131 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 45 Resp: 429524

Ion	Ratio	Lower	Upper
45	100		
43	101.2	81.0	121.4
87	25.4	20.3	30.5
59	11.2	9.0	13.4

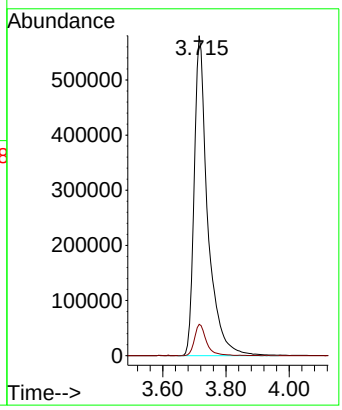




#23
Vinyl Acetate
Concen: 261.852 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 172673

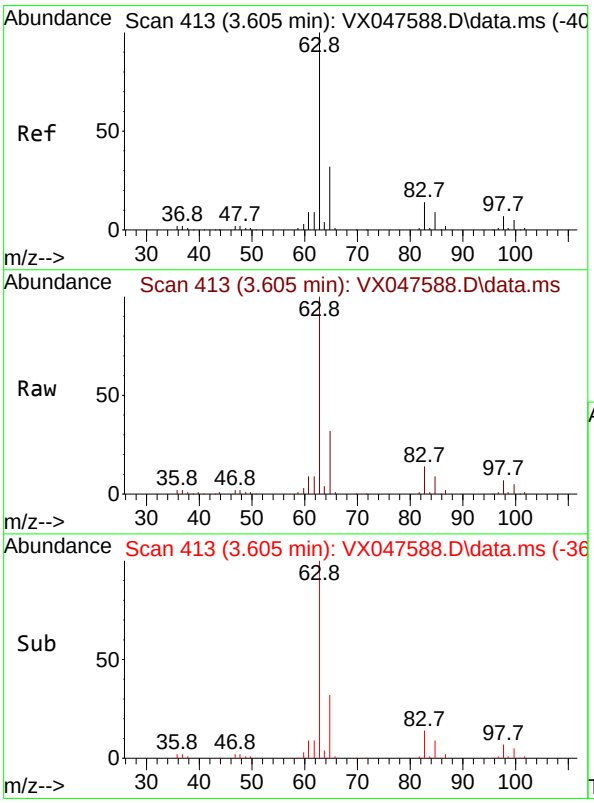
Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

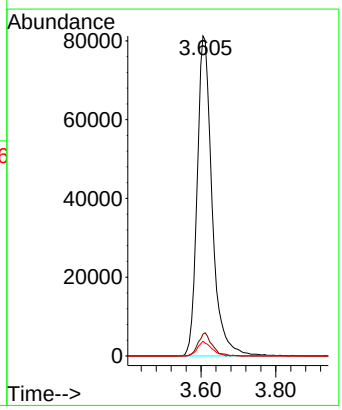
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

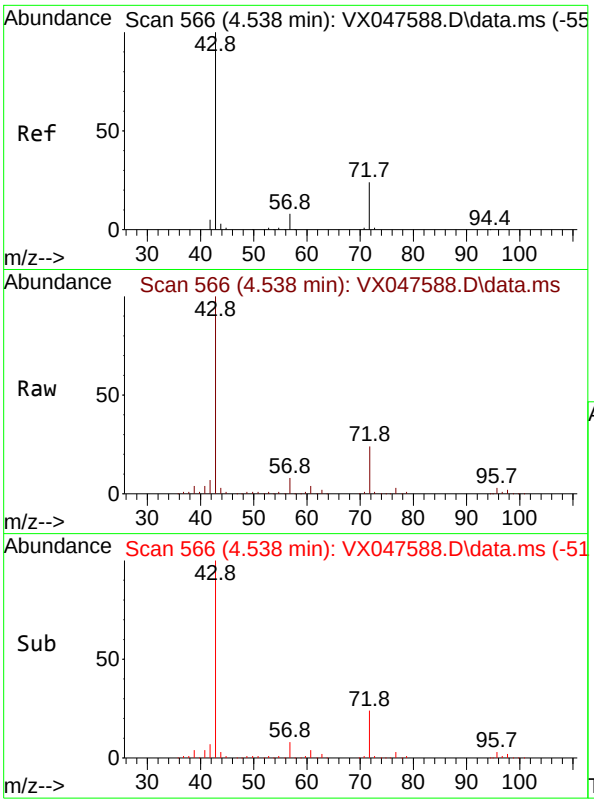


#24
1,1-Dichloroethane
Concen: 51.338 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 224824

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	4.6	2.3	6.9

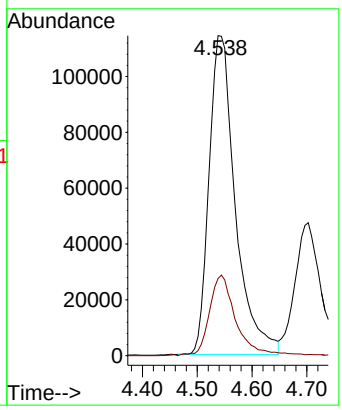




#25
2-Butanone
Concen: 254.060 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 38033

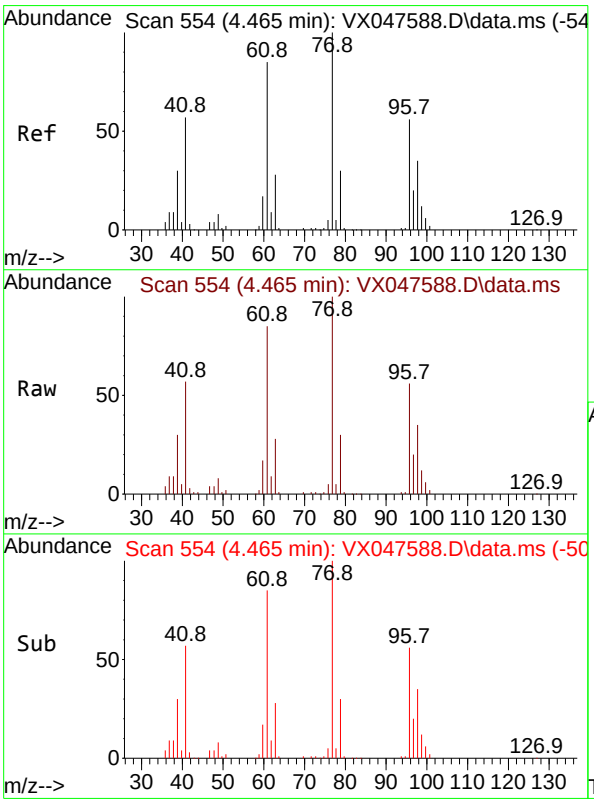
Ion	Ratio	Lower	Upper
43	100		
72	25.1	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

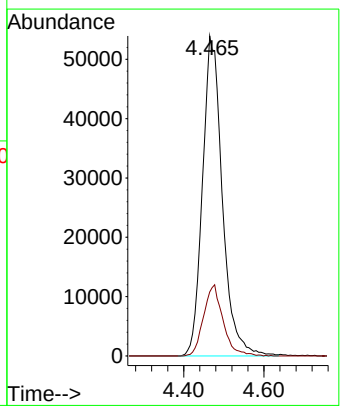
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

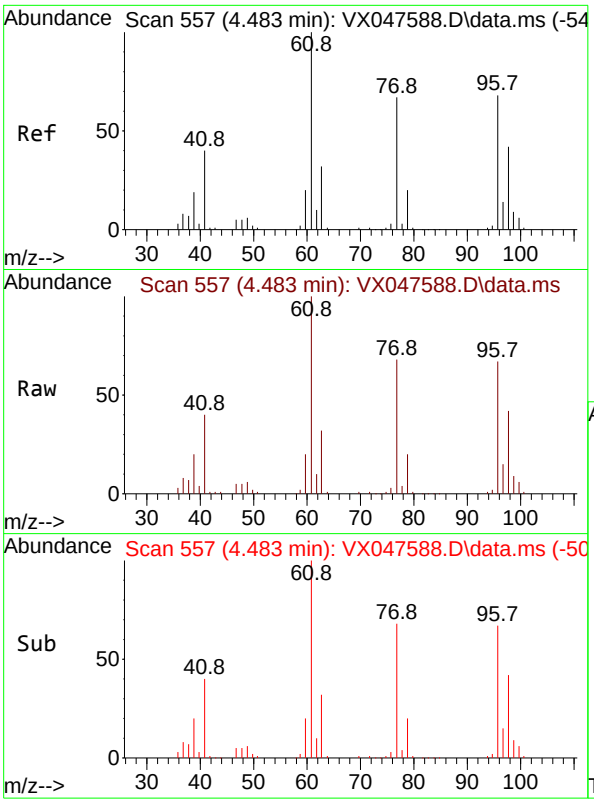


#26
2,2-Dichloropropane
Concen: 50.888 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 77 Resp: 185247

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.9	32.7

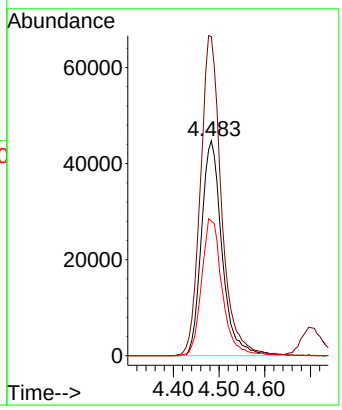




#27
cis-1,2-Dichloroethene
Concen: 51.576 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 14010

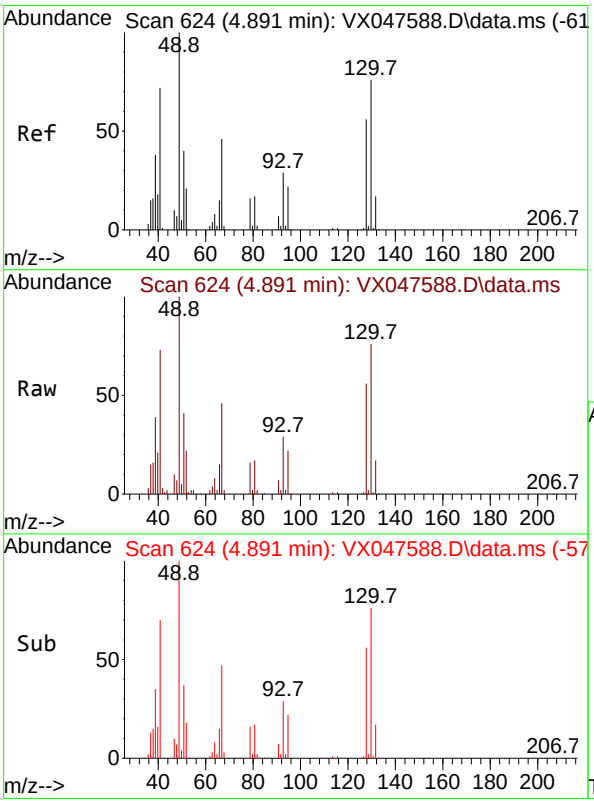
Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	303.2
98	63.9	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

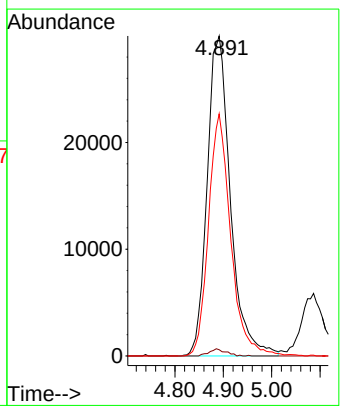
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

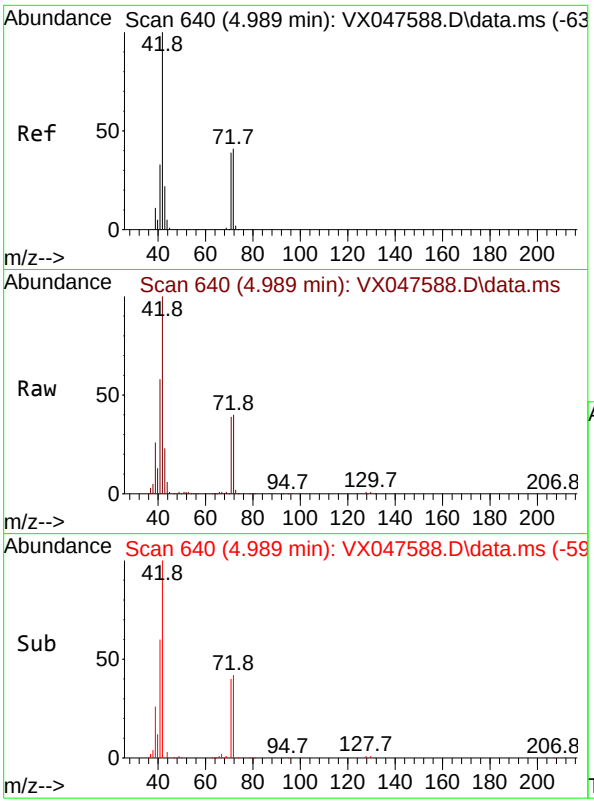


#28
Bromochloromethane
Concen: 52.301 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 49 Resp: 99991

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	72.3	57.8	86.8





#29
Tetrahydrofuran
Concen: 265.026 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

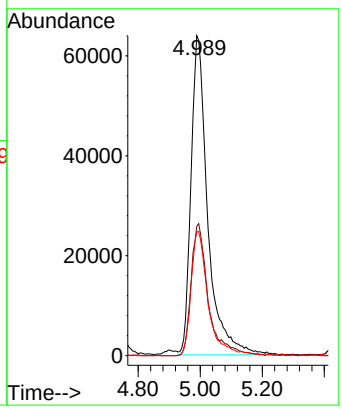
Tgt Ion: 42 Resp: 23867

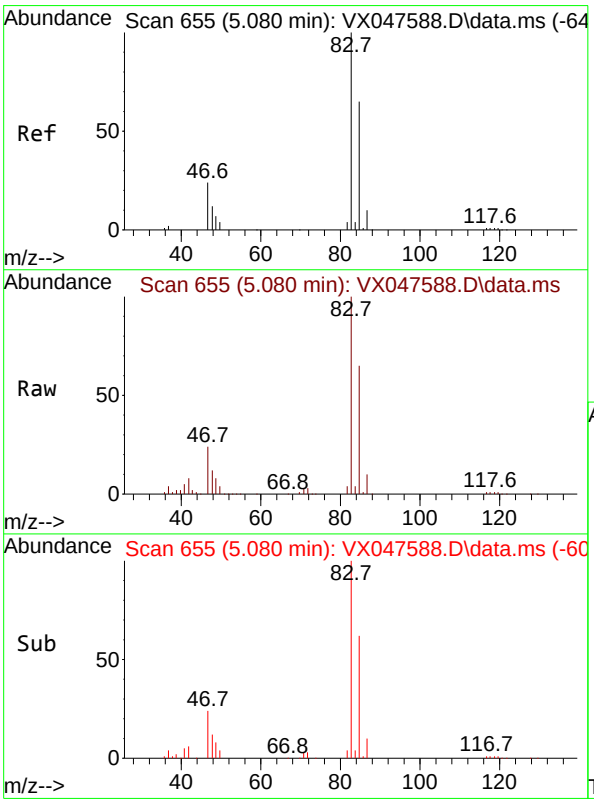
Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	39.9	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

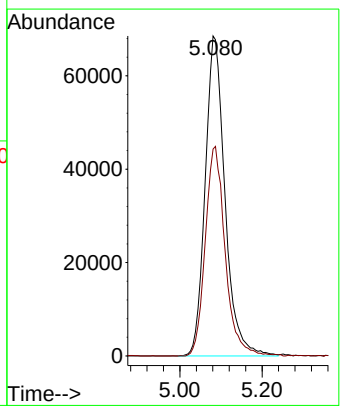


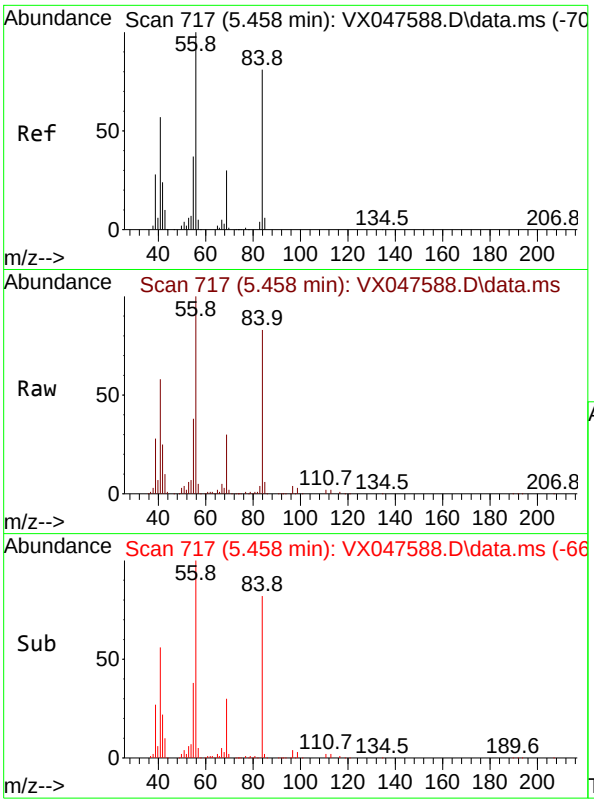


#30
Chloroform
Concen: 51.844 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 229430

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6

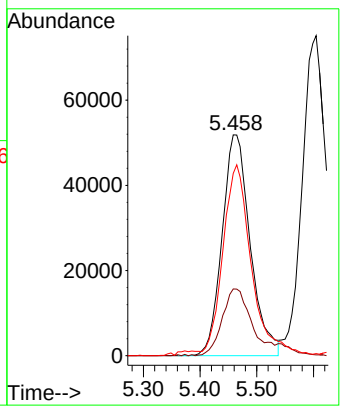




#31
Cyclohexane
Concen: 48.952 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 56 Resp: 17854

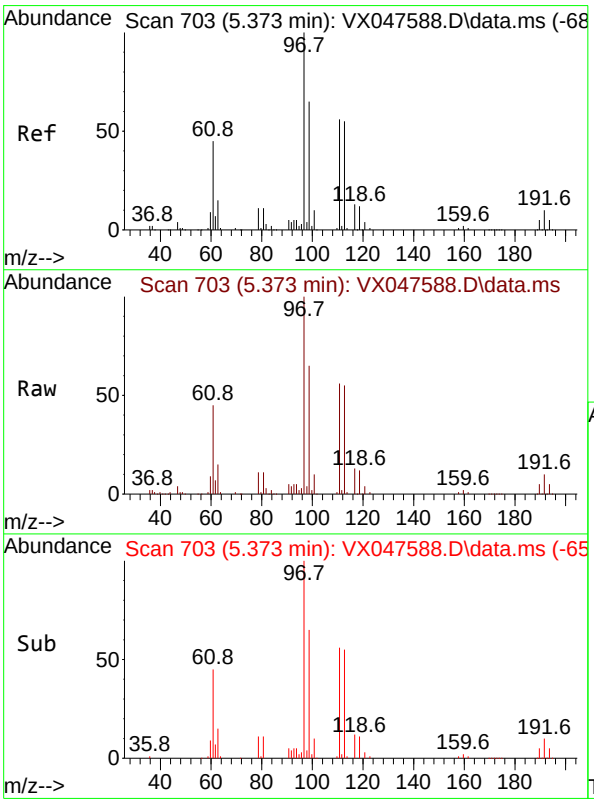
Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.8	35.8
84	80.8	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

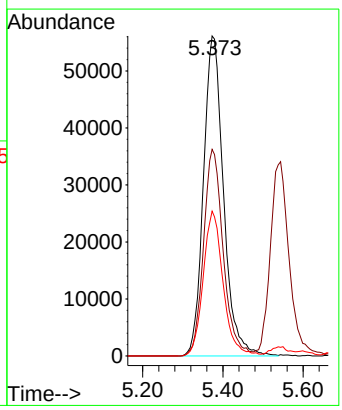
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

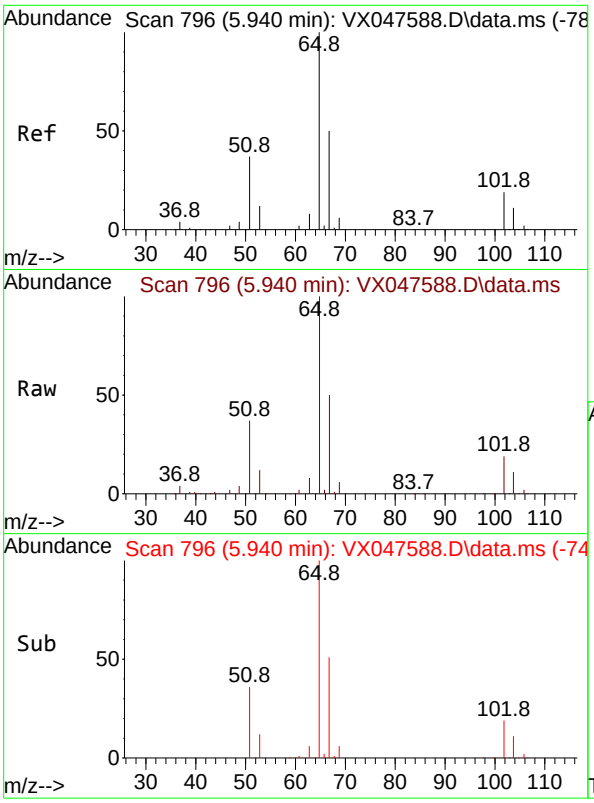


#32
1,1,1-Trichloroethane
Concen: 52.058 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 195407

Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.6	76.0
61	44.8	35.8	53.8

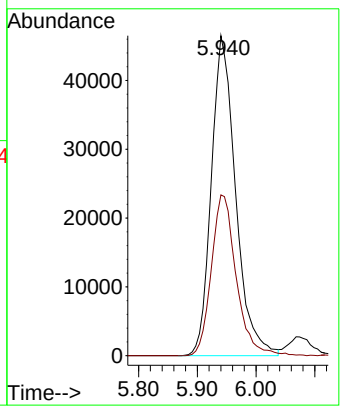




#33
1,2-Dichloroethane-d4
Concen: 48.404 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 65 Resp: 13360

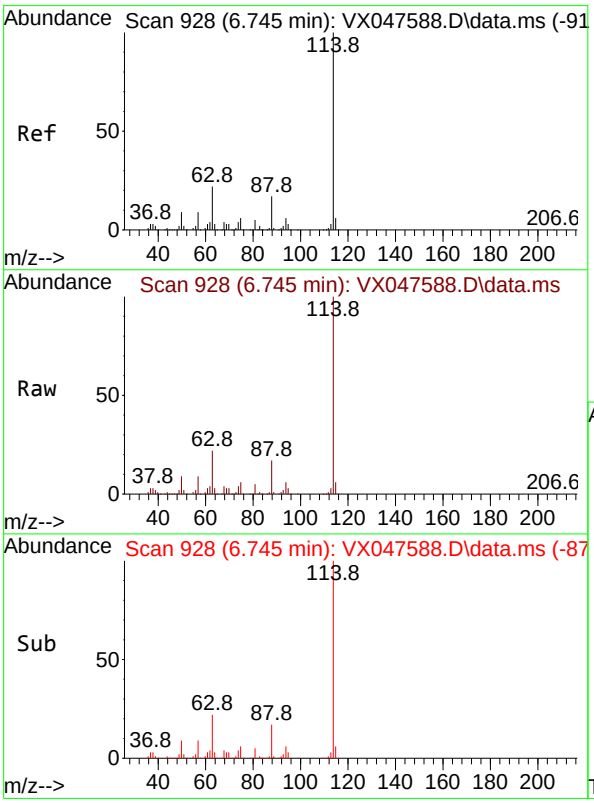
Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

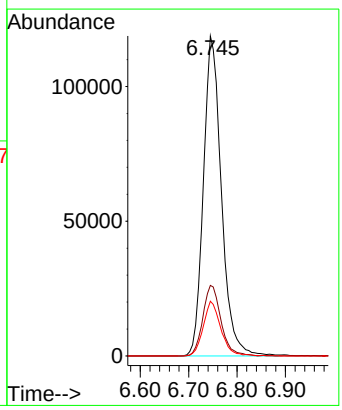
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

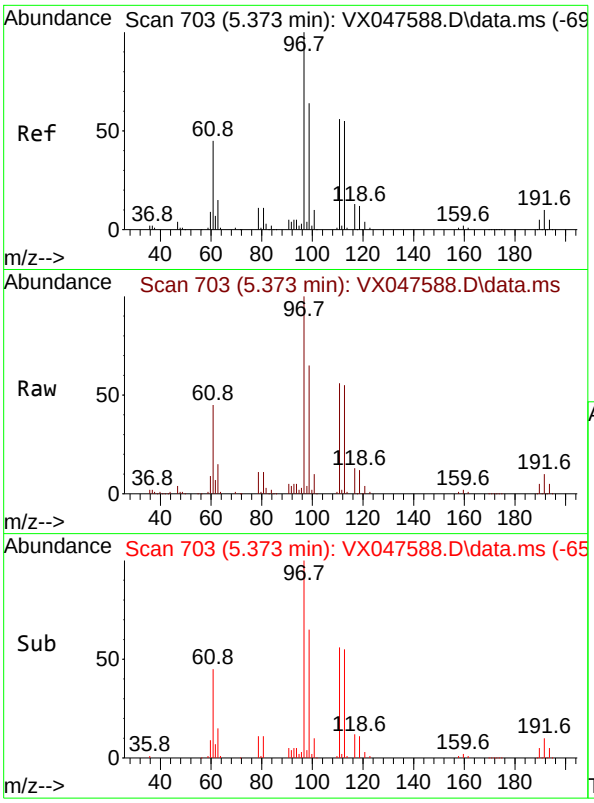


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:114 Resp: 307383

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	17.1	0.0	34.2

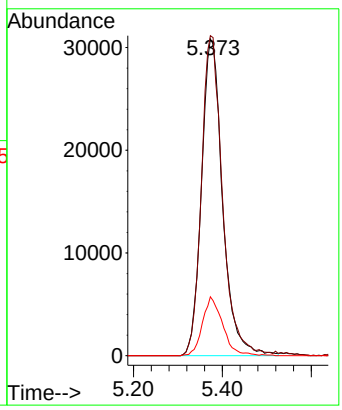




#35
Dibromofluoromethane
Concen: 49.298 ug/l
RT: 5.373 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:113 Resp: 10162

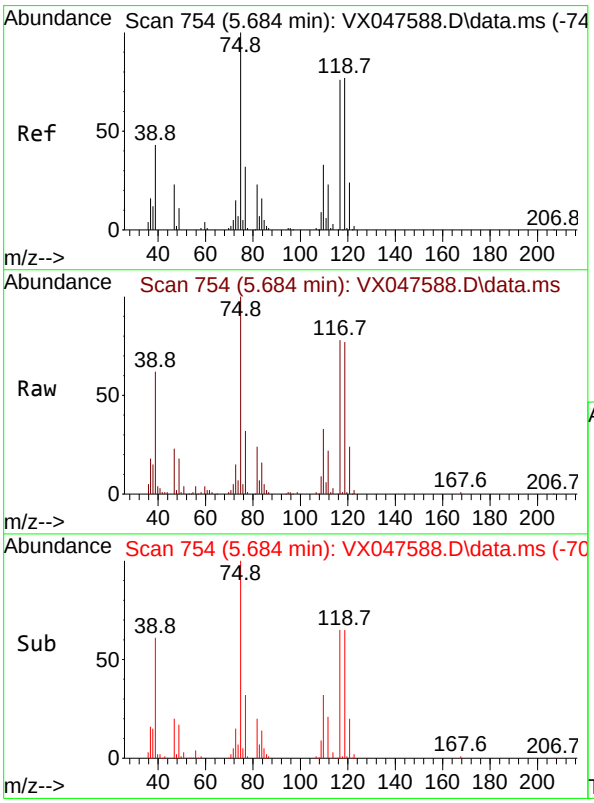
Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

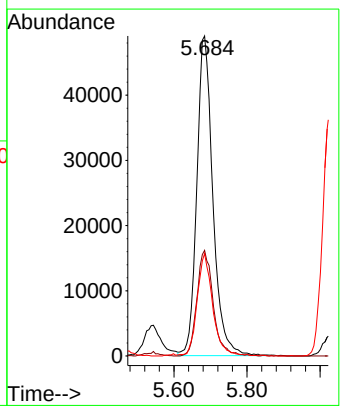
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

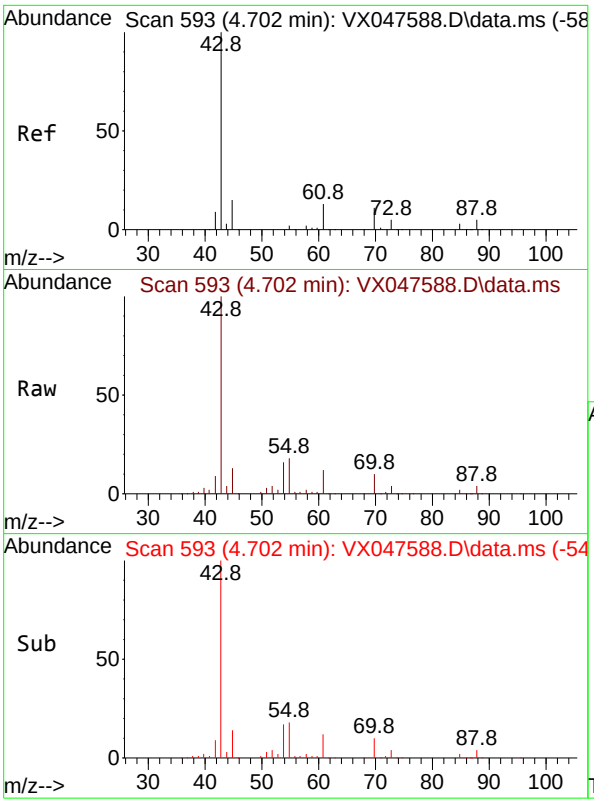


#36
1,1-Dichloropropene
Concen: 49.729 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 149800

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.7	50.1
77	30.4	24.3	36.5





#37
Ethyl Acetate
Concen: 50.687 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

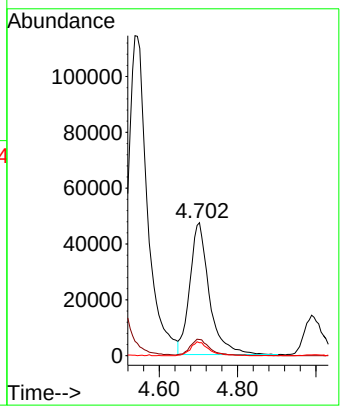
Tgt Ion: 43 Resp: 16348

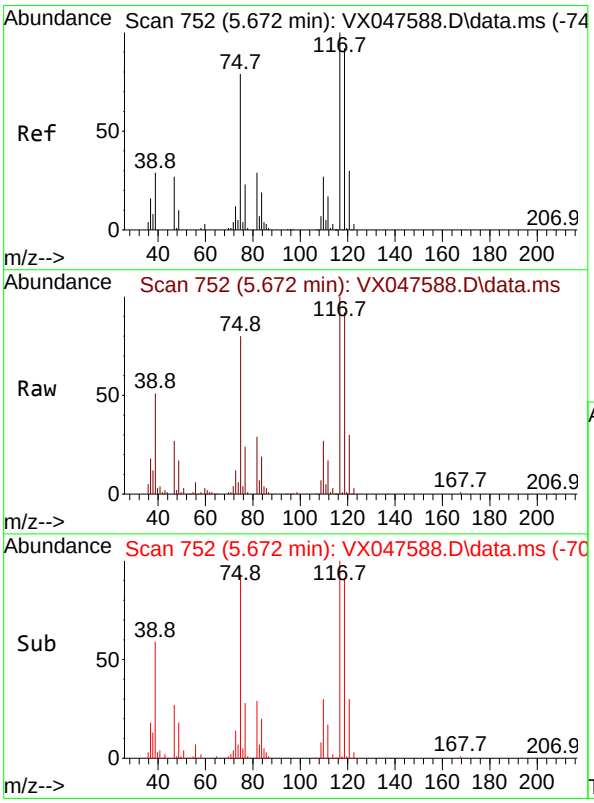
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.9	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

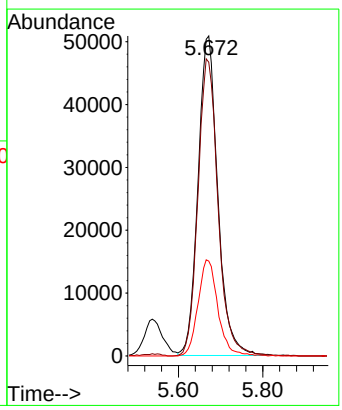


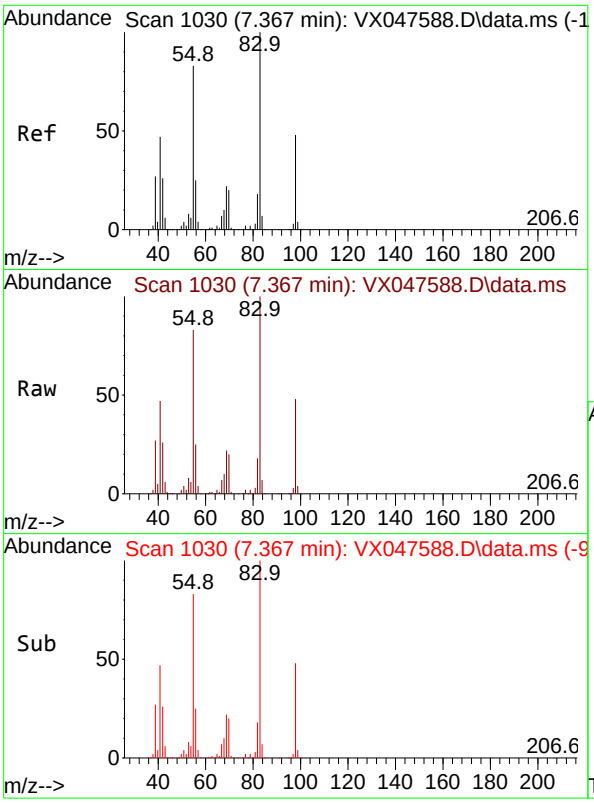


#38
Carbon Tetrachloride
Concen: 50.637 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 165730

Ion	Ratio	Lower	Upper
117	100		
119	91.8	73.4	110.2
121	29.7	23.8	35.6

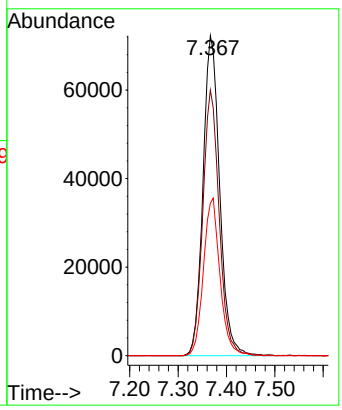




#39
Methylcyclohexane
Concen: 50.773 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 17361

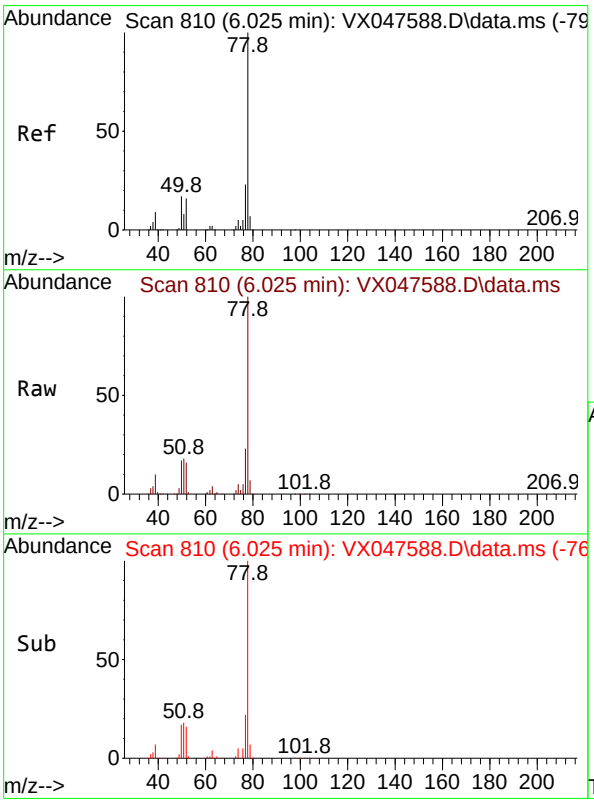
Ion	Ratio	Lower	Upper
83	100		
55	83.0	66.4	99.6
98	47.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

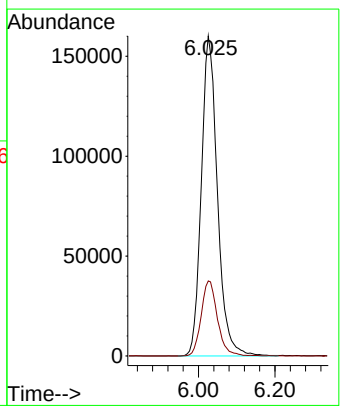
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

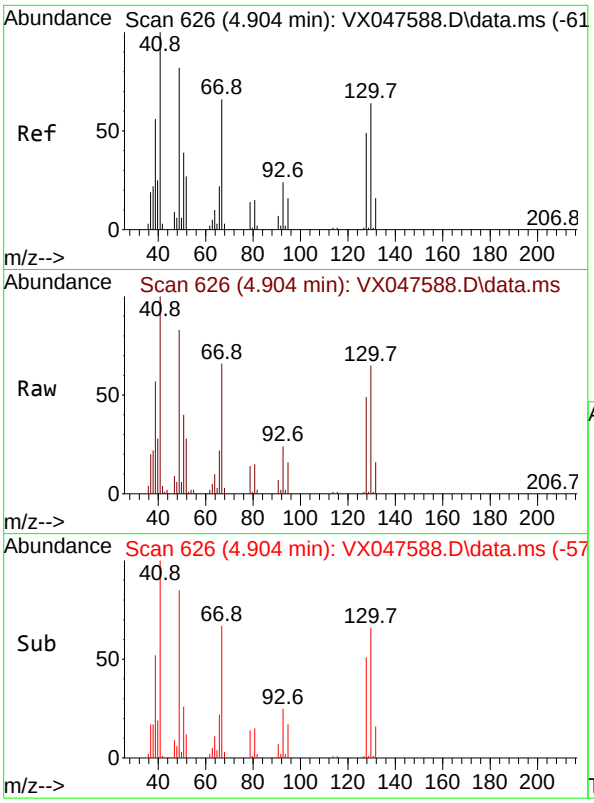


#40
Benzene
Concen: 51.167 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 78 Resp: 468136

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

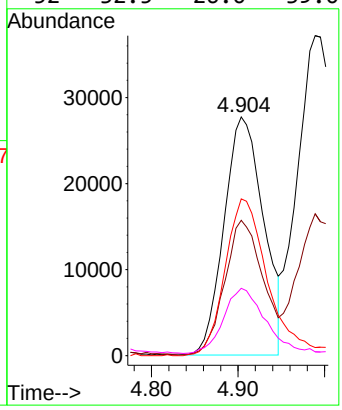




#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 8776

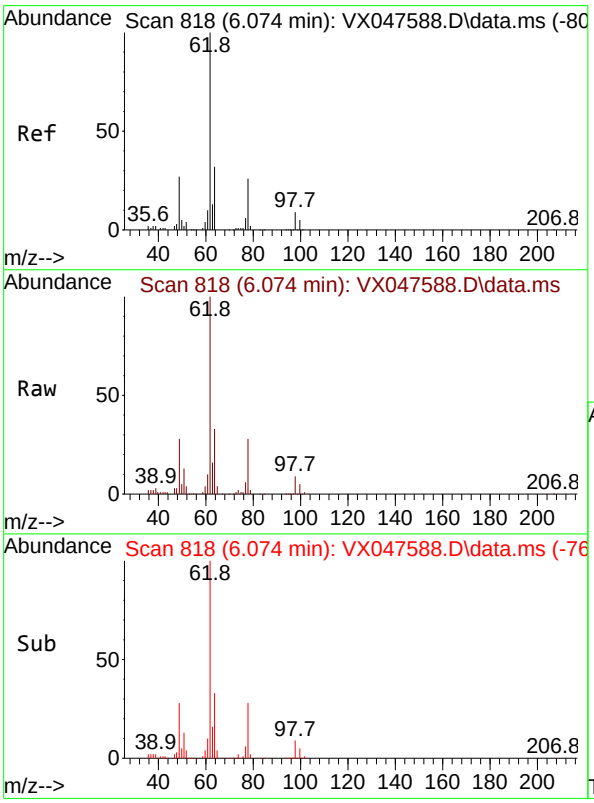
Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	73.2	58.6	87.8
52	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

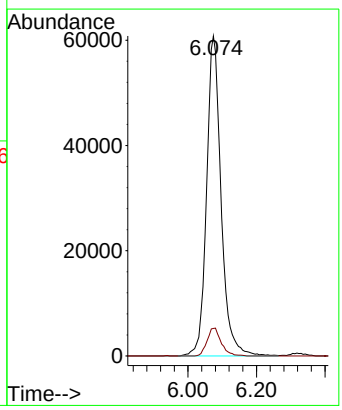
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

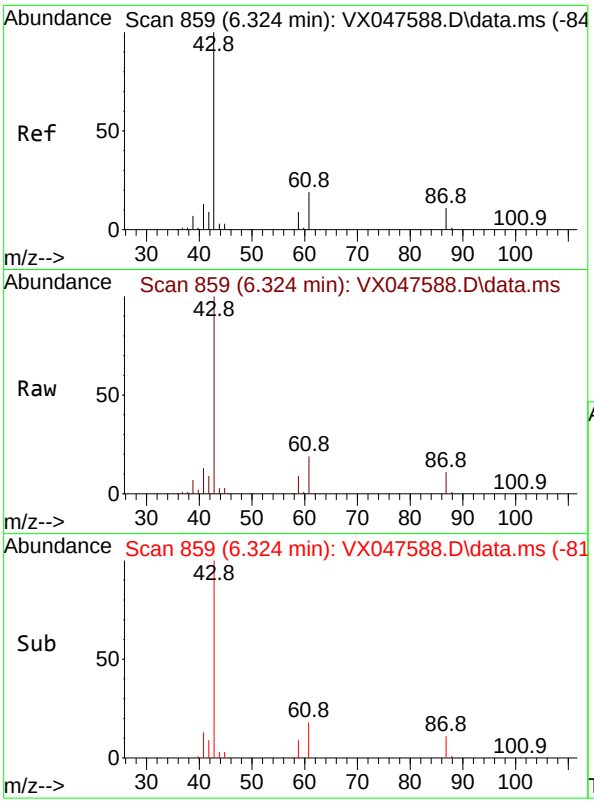


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 179037

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0

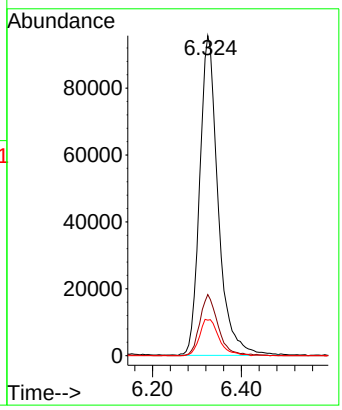




#43
Isopropyl Acetate
Concen: 52.096 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 27557

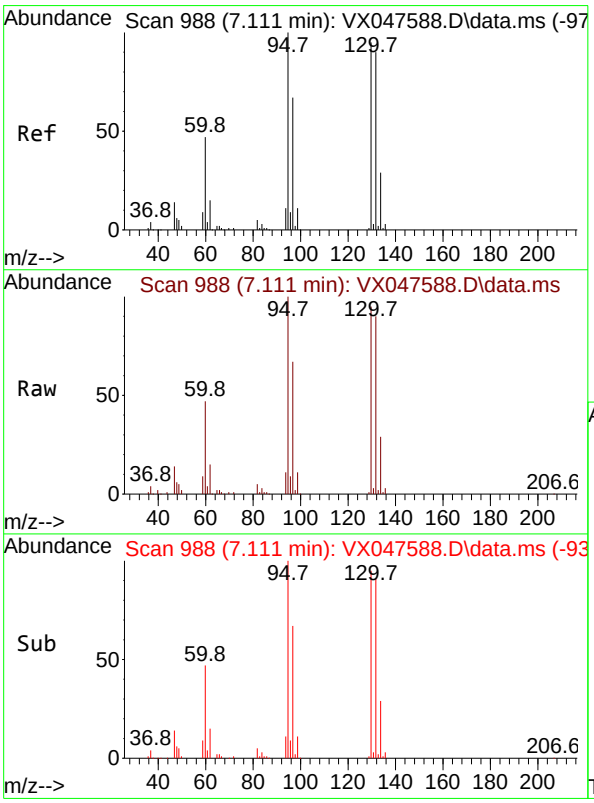
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.0	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

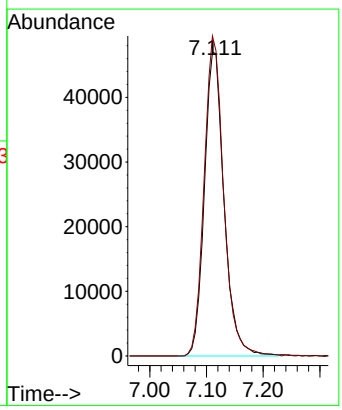
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

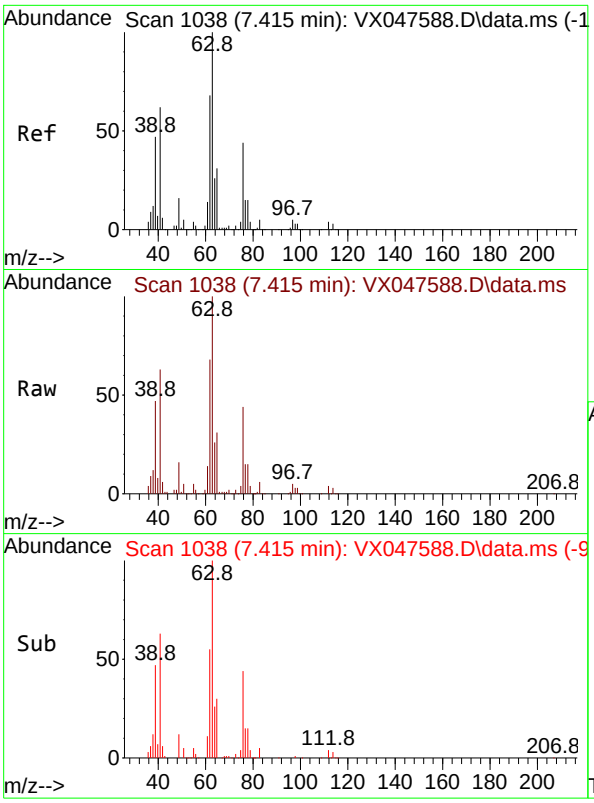


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:130 Resp: 113832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	210.8

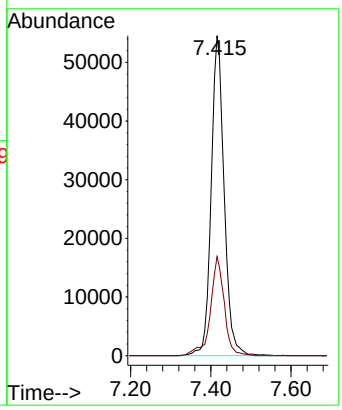




#45
1,2-Dichloropropane
Concen: 52.122 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 12210

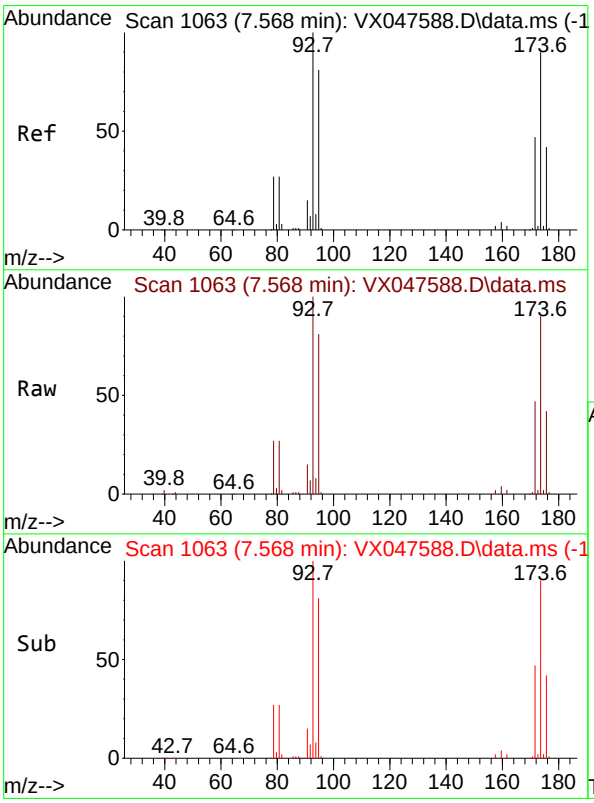
Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

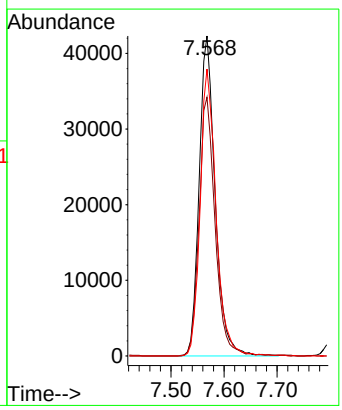
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

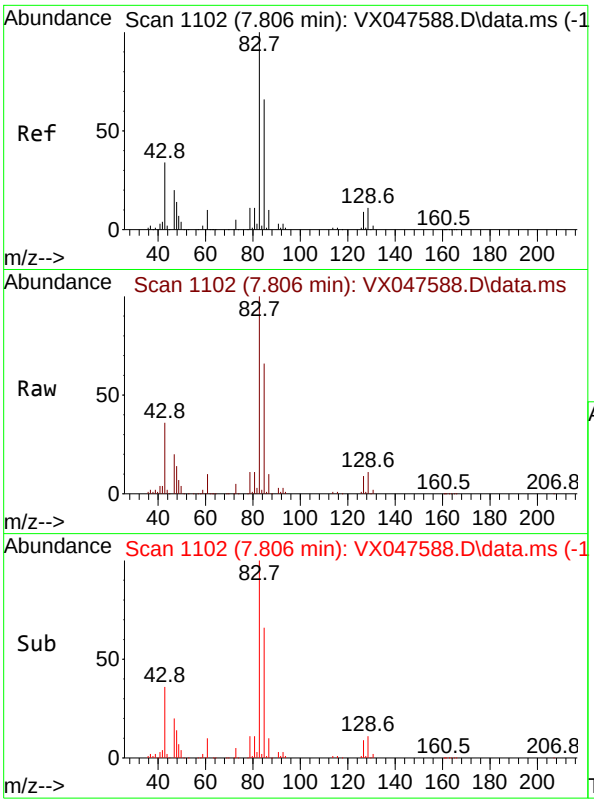


#46
Dibromomethane
Concen: 51.914 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 93 Resp: 88505

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.0	97.6
174	89.5	71.6	107.4

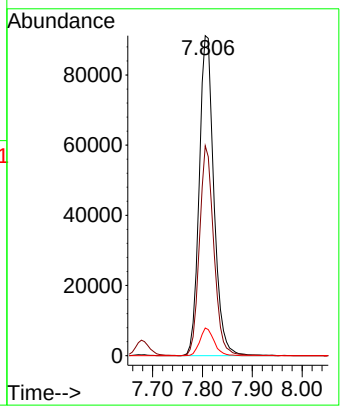




#47
Bromodichloromethane
Concen: 53.025 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 18654

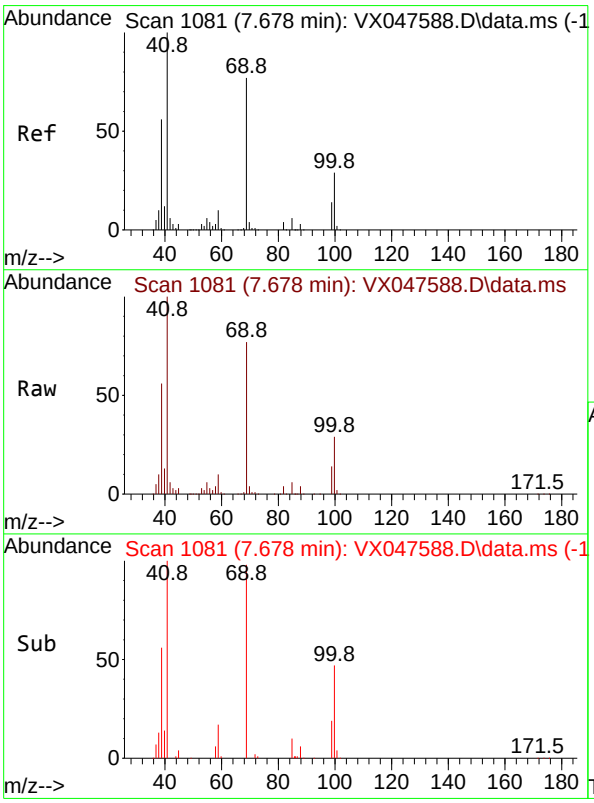
Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
127	8.6	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

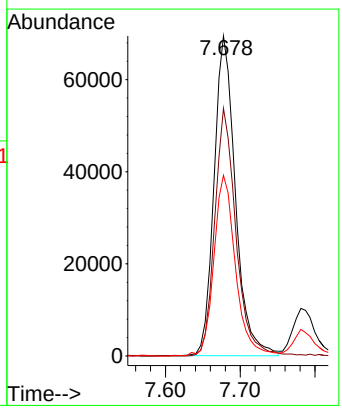
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

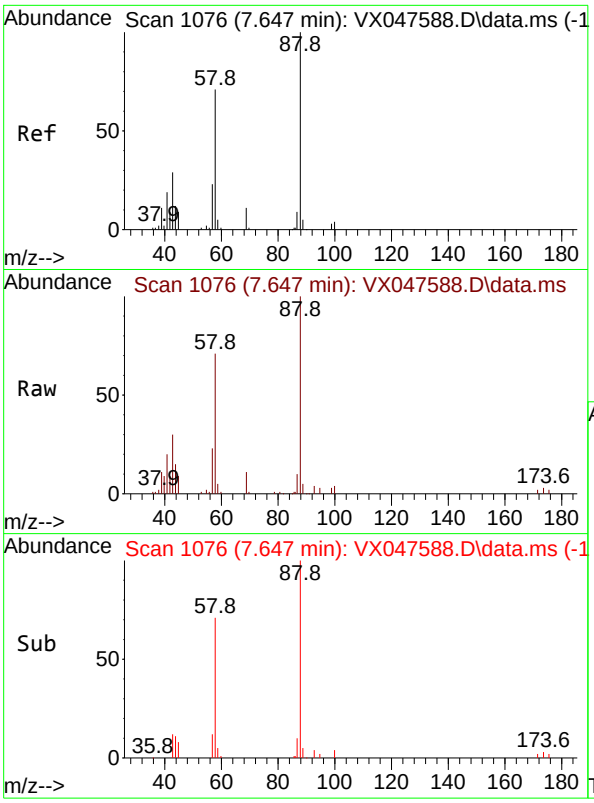


#48
Methyl methacrylate
Concen: 52.438 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 138167

Ion	Ratio	Lower	Upper
41	100		
69	76.8	61.4	92.2
39	57.2	45.8	68.6

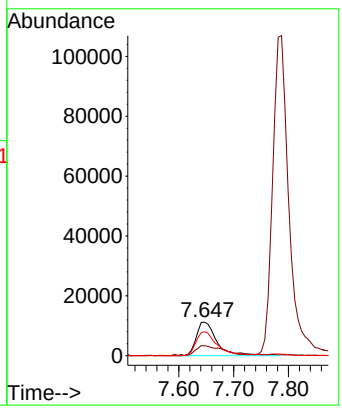




#49
1,4-Dioxane
Concen: 1107.698 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 88 Resp: 2949

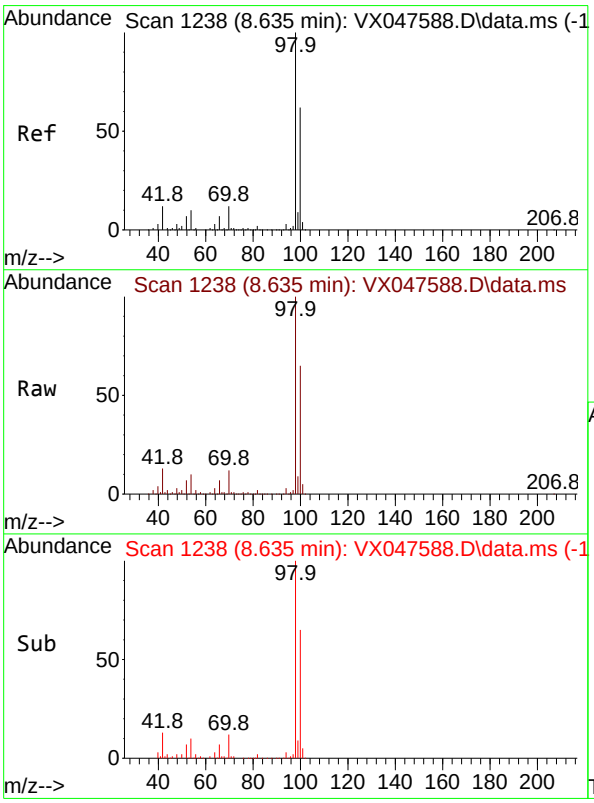
Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.2	45.2
58	74.4	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

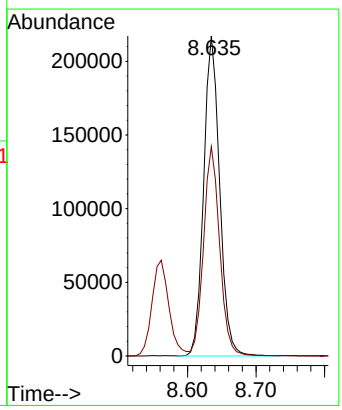
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

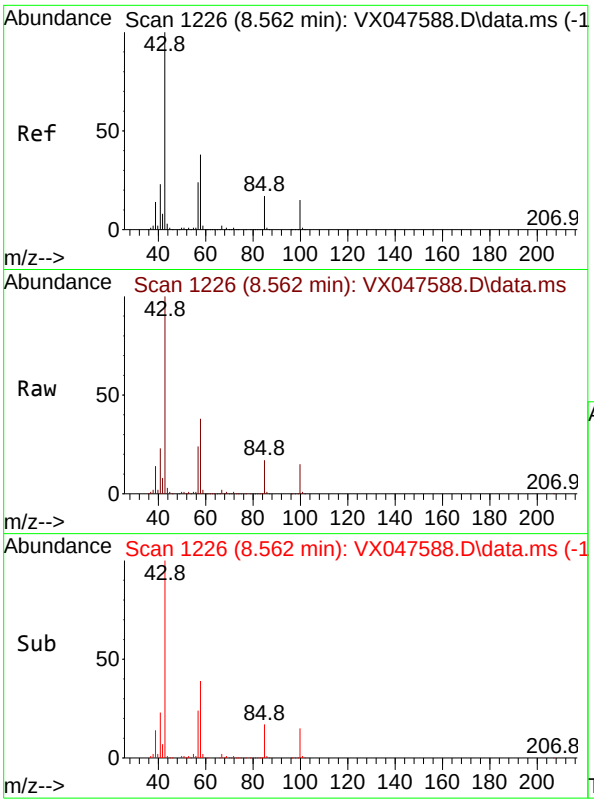


#50
Toluene-d8
Concen: 49.428 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 98 Resp: 352578

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

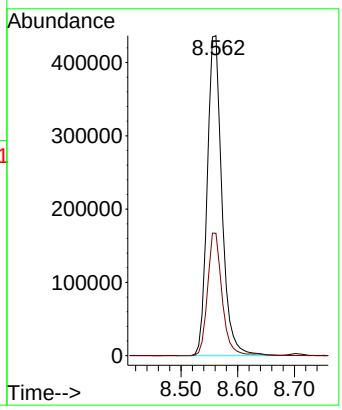




#51
4-Methyl-2-Pentanone
Concen: 267.650 ug/l
RT: 8.562 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 78497

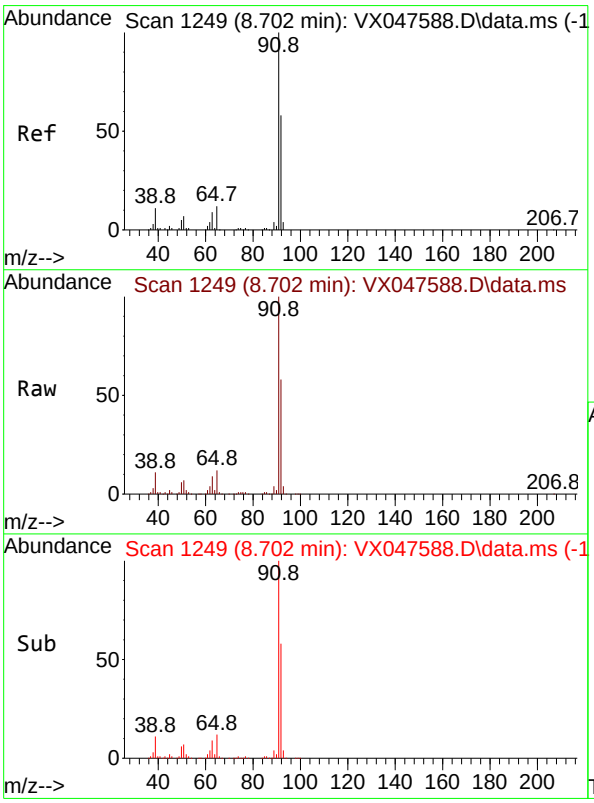
Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

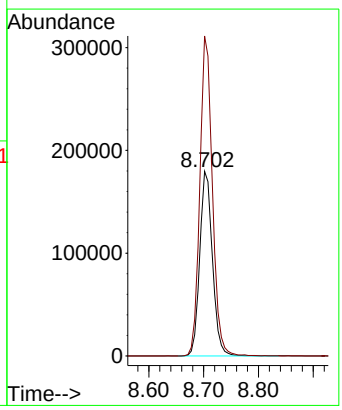
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

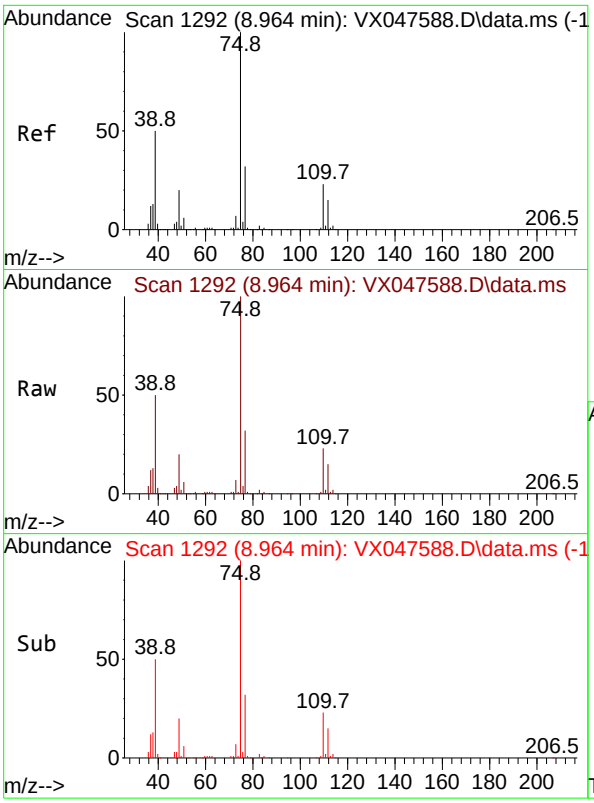


#52
Toluene
Concen: 51.244 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 92 Resp: 288853

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.1	205.7

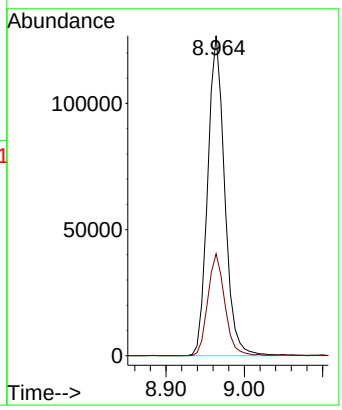




#53
t-1,3-Dichloropropene
Concen: 53.027 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 19028

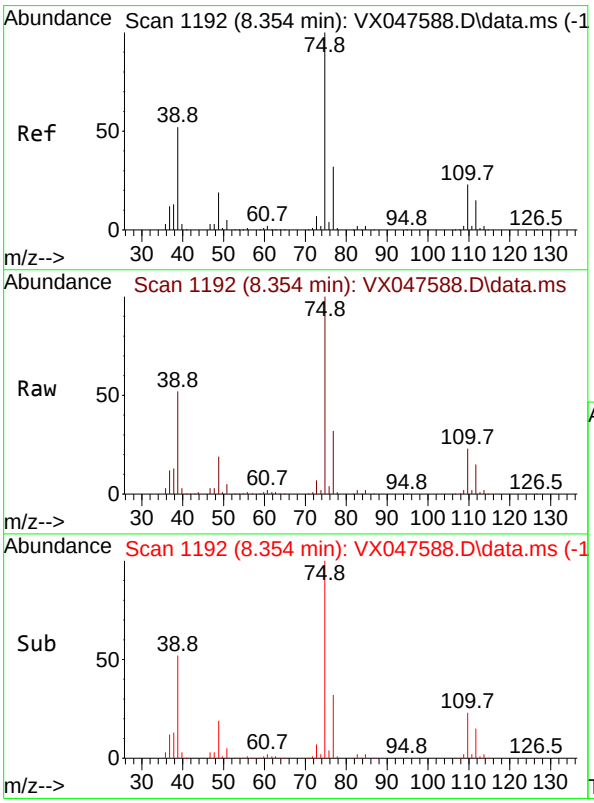
Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

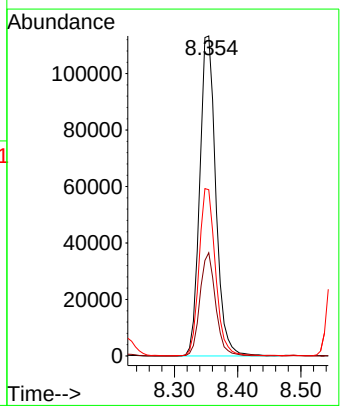
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

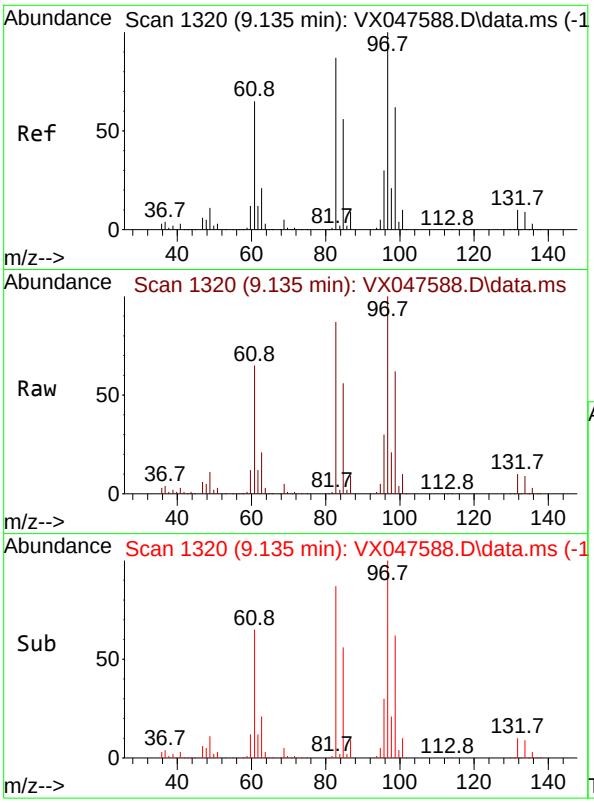


#54
cis-1,3-Dichloropropene
Concen: 52.369 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 200859

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6
39	51.8	41.4	62.2

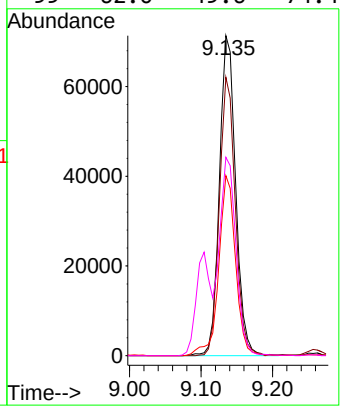




#55
1,1,2-Trichloroethane
Concen: 51.915 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 11283

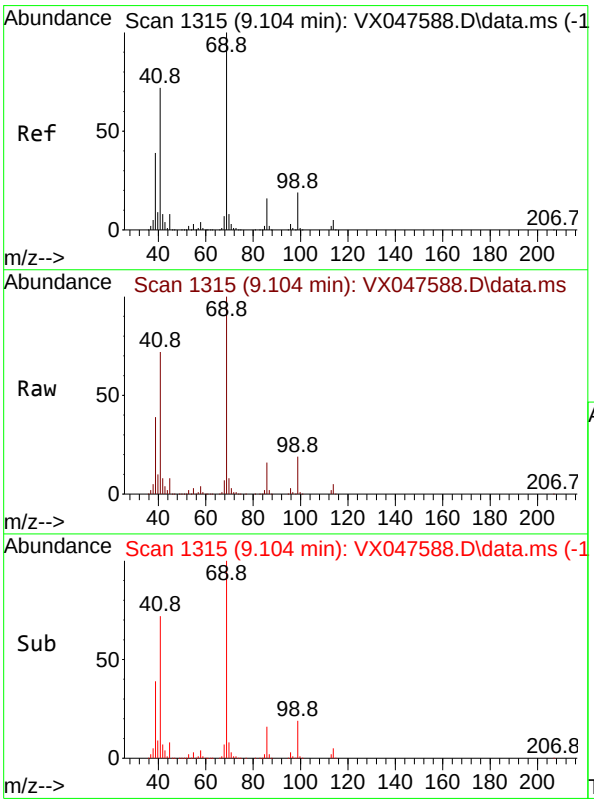
Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.6	104.4
85	56.3	45.0	67.6
99	62.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

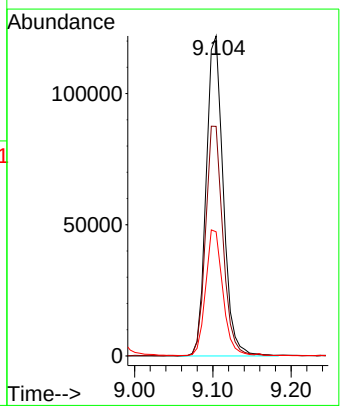
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

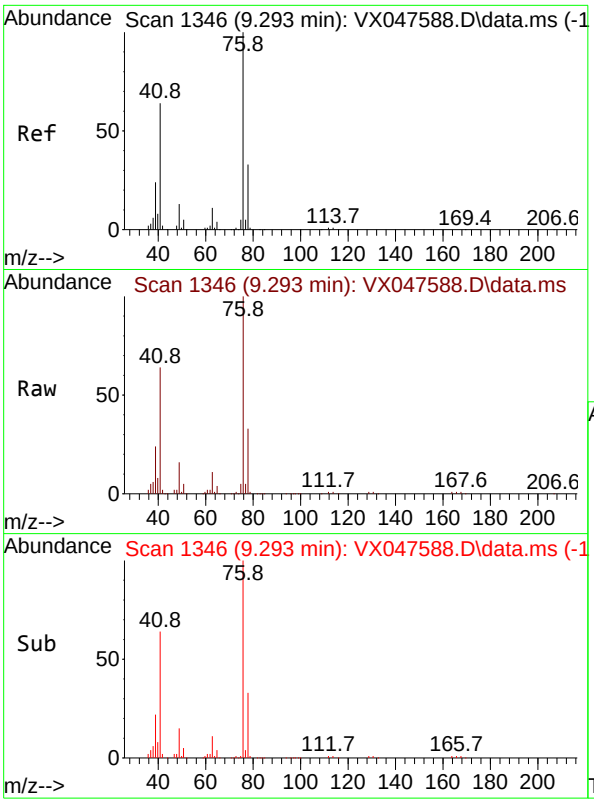


#56
Ethyl methacrylate
Concen: 53.930 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 69 Resp: 184087

Ion	Ratio	Lower	Upper
69	100		
41	73.2	58.6	87.8
39	39.4	31.5	47.3

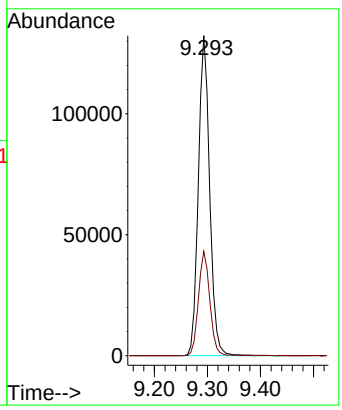




#57
1,3-Dichloropropane
Concen: 52.492 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 76 Resp: 19598

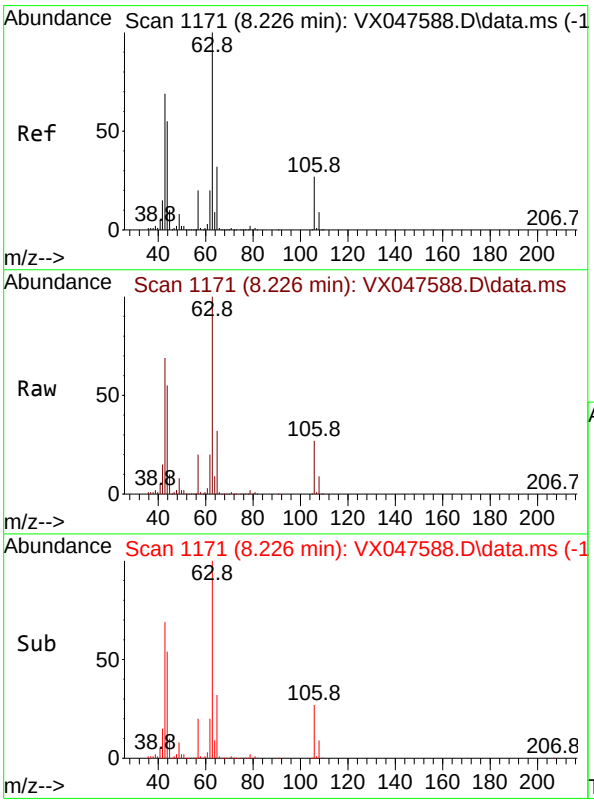
Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

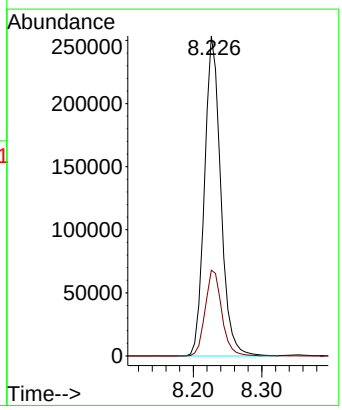
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

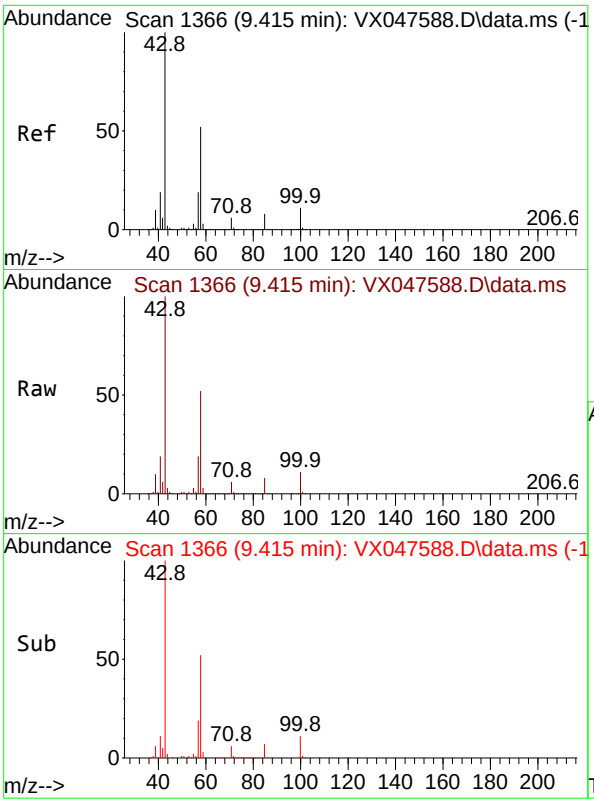


#58
2-Chloroethyl Vinyl ether
Concen: 256.309 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 418707

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9

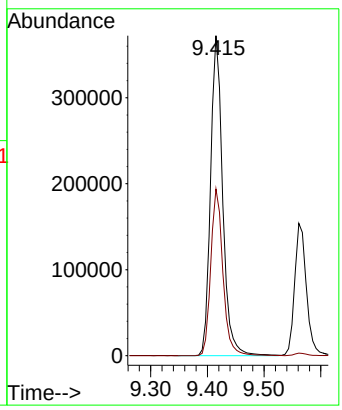




#59
2-Hexanone
Concen: 262.683 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 55331

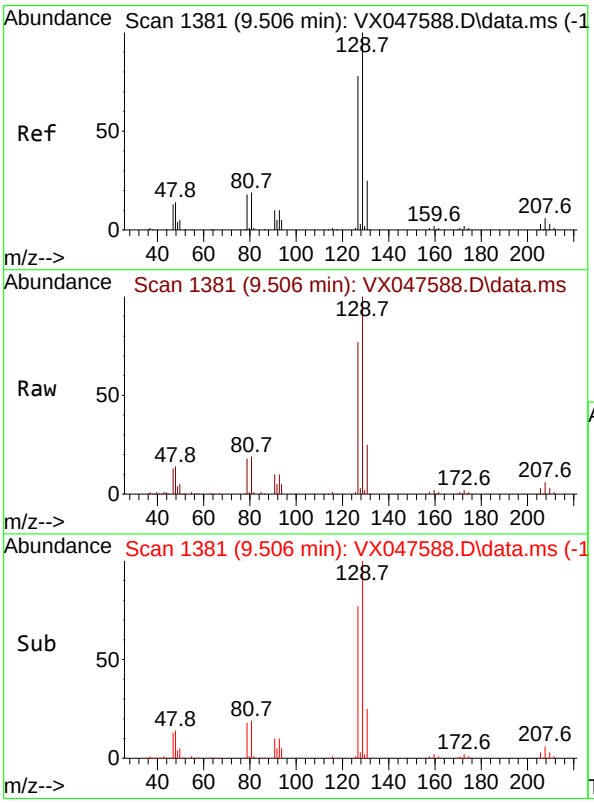
Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

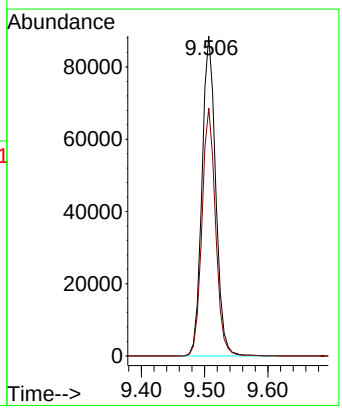
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

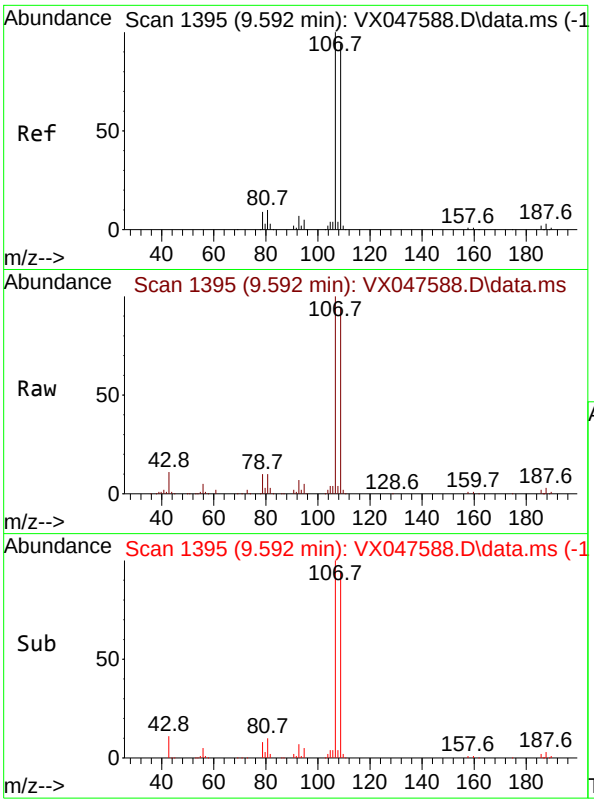


#60
Dibromochloromethane
Concen: 53.401 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:129 Resp: 133737

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.4	115.2

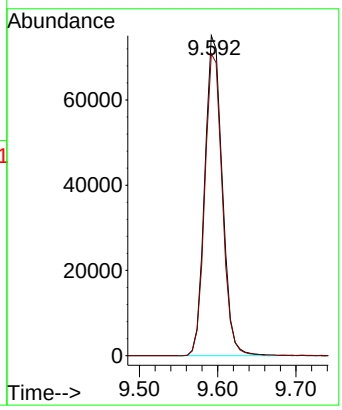




#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:107 Resp: 11646

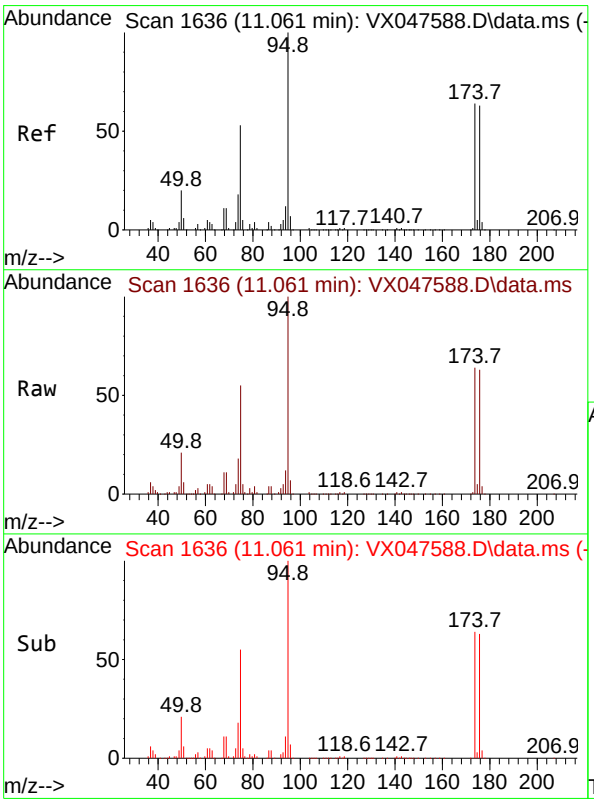
Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

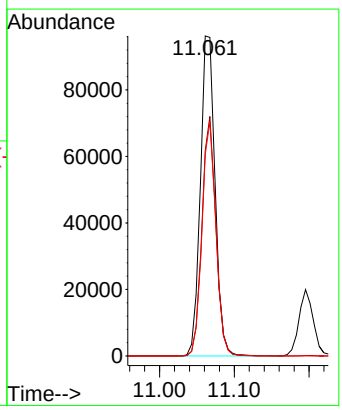
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

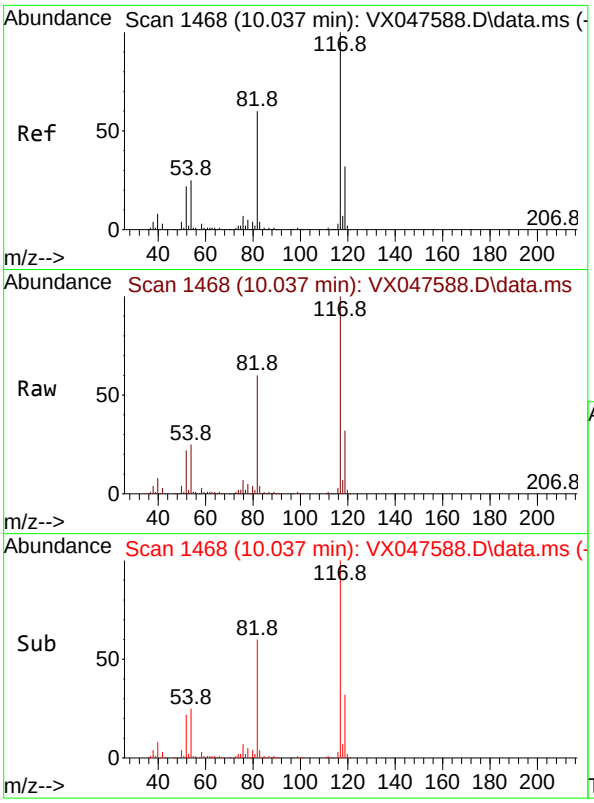


#62
4-Bromofluorobenzene
Concen: 48.471 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 95 Resp: 131217

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.6
176	69.2	0.0	138.4

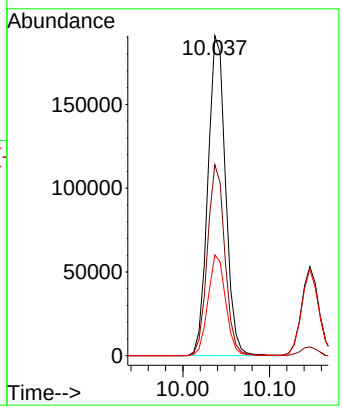




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 27004

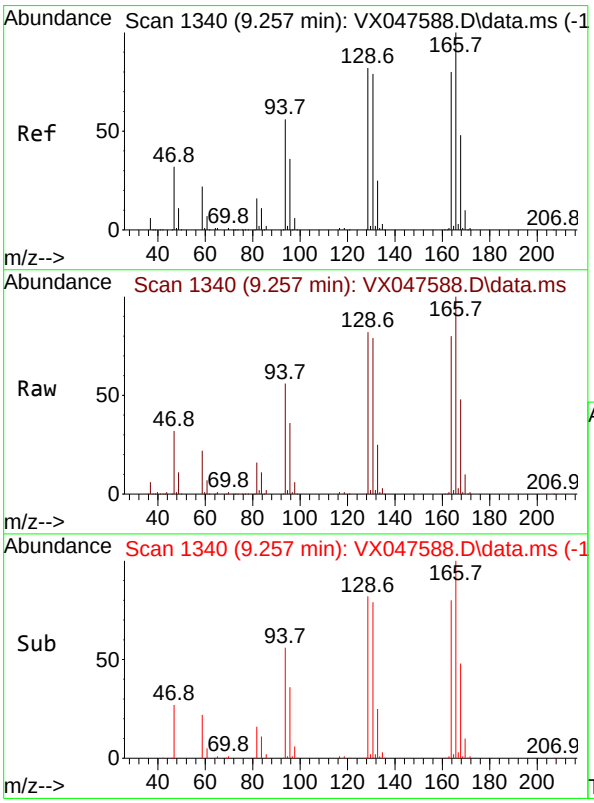
Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.8	71.6
119	31.5	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

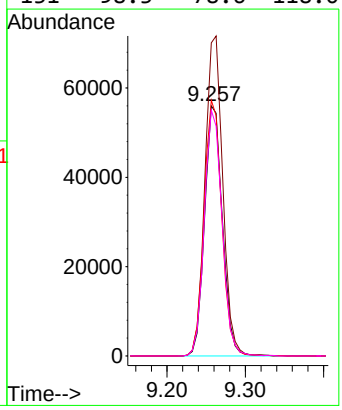
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

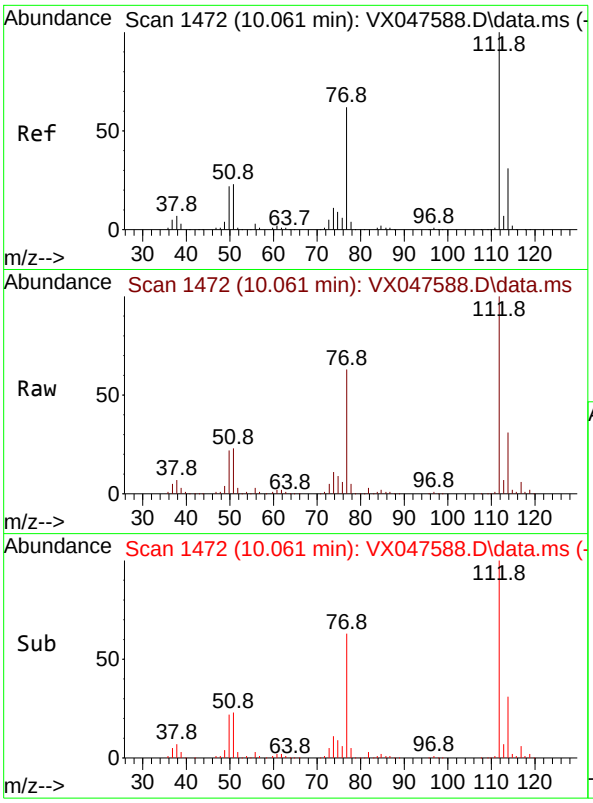


#64
Tetrachloroethene
Concen: 50.074 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:164 Resp: 88149

Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.2	150.2
129	102.2	81.8	122.6
131	98.3	78.6	118.0





#65
Chlorobenzene
Concen: 51.833 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

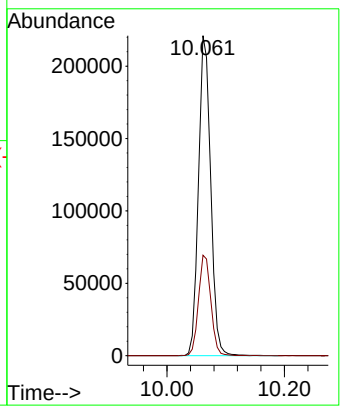
Tgt Ion:112 Resp: 31798

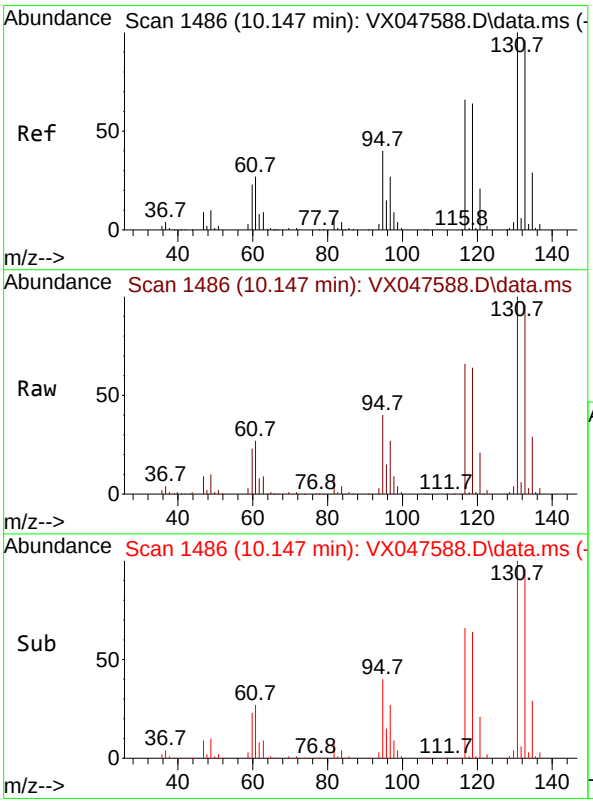
Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

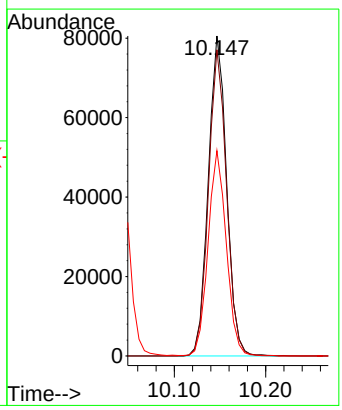


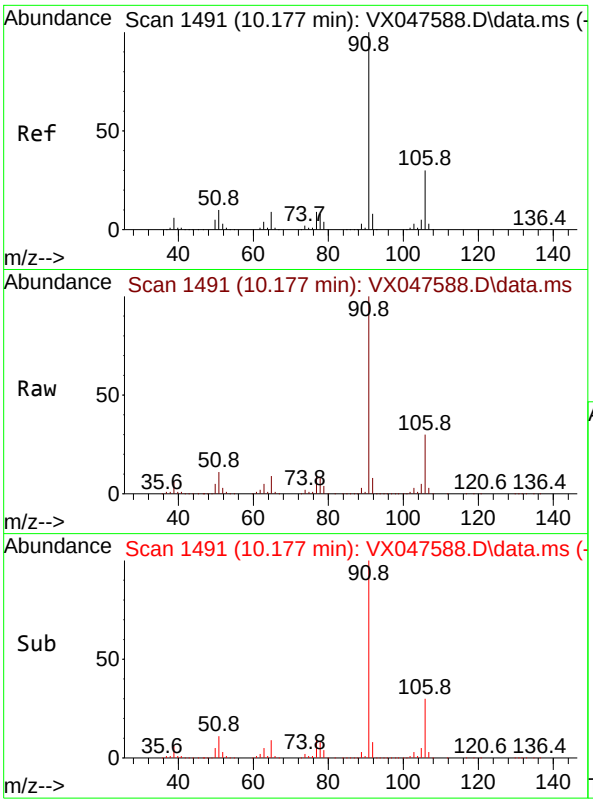


#66
1,1,1,2-Tetrachloroethane
Concen: 52.835 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:131 Resp: 111849

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	64.0	32.0	96.0

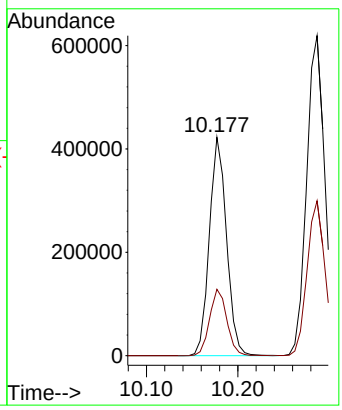




#67
Ethyl Benzene
Concen: 52.017 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 55061

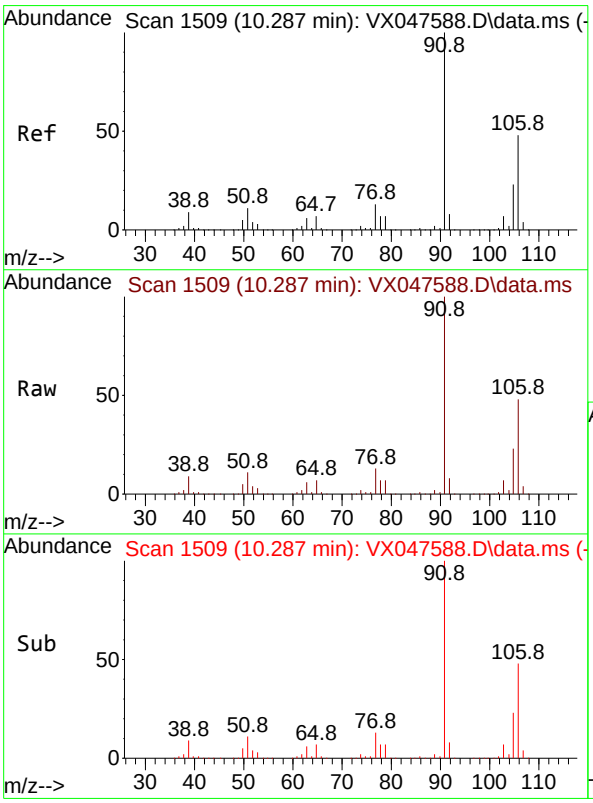
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

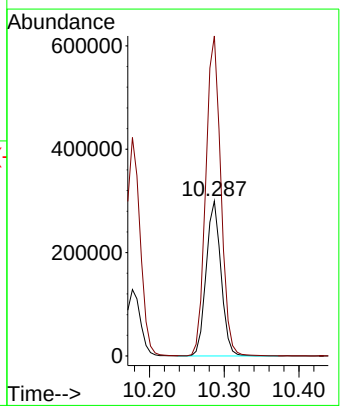
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

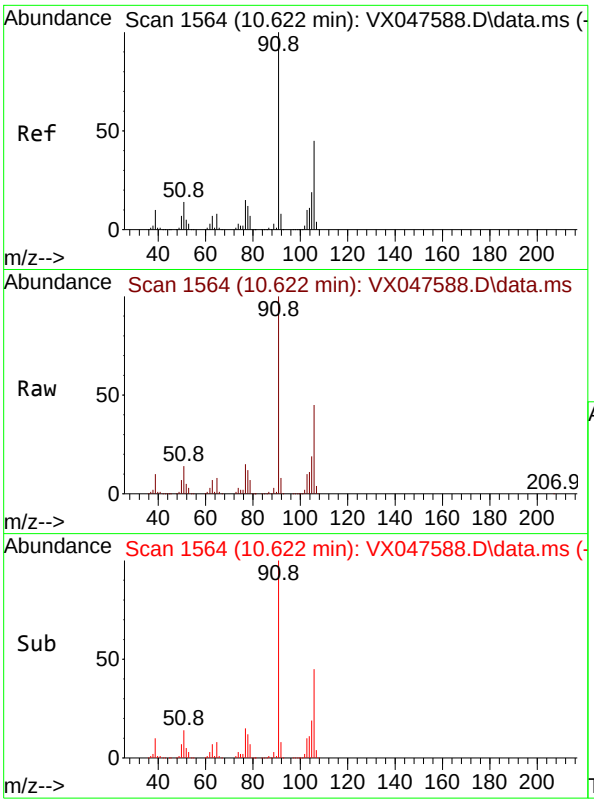


#68
m/p-Xylenes
Concen: 104.809 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 412932

Ion	Ratio	Lower	Upper
106	100		
91	209.8	167.8	251.8

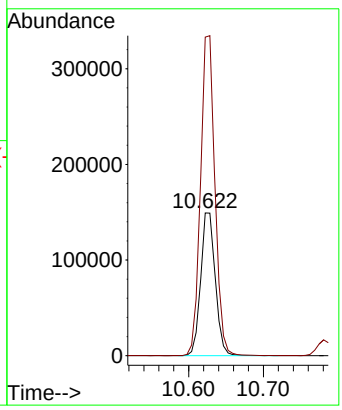




#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 20229

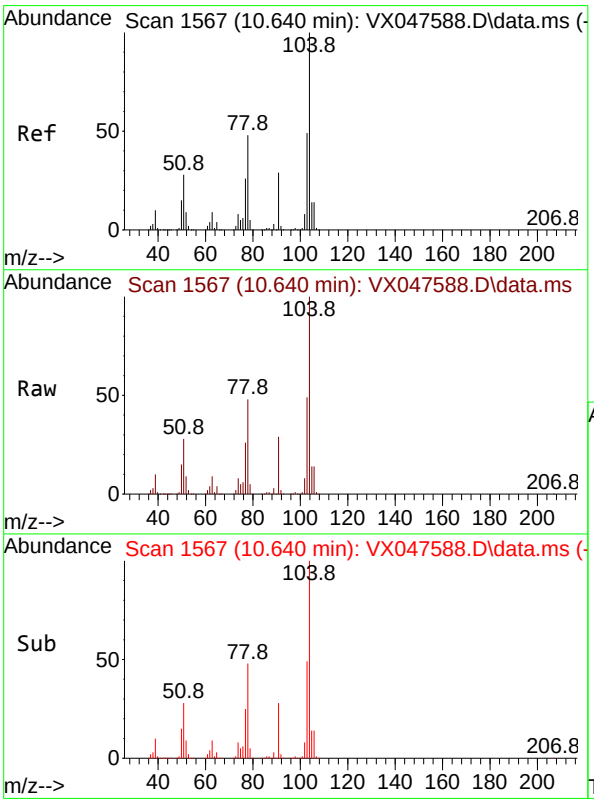
Ion	Ratio	Lower	Upper
106	100		
91	222.3	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

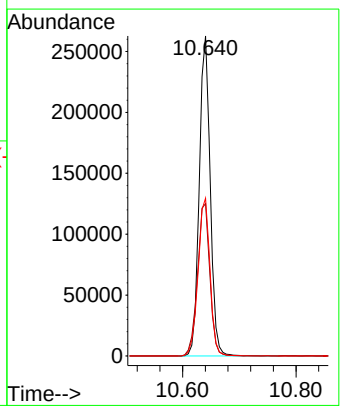
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

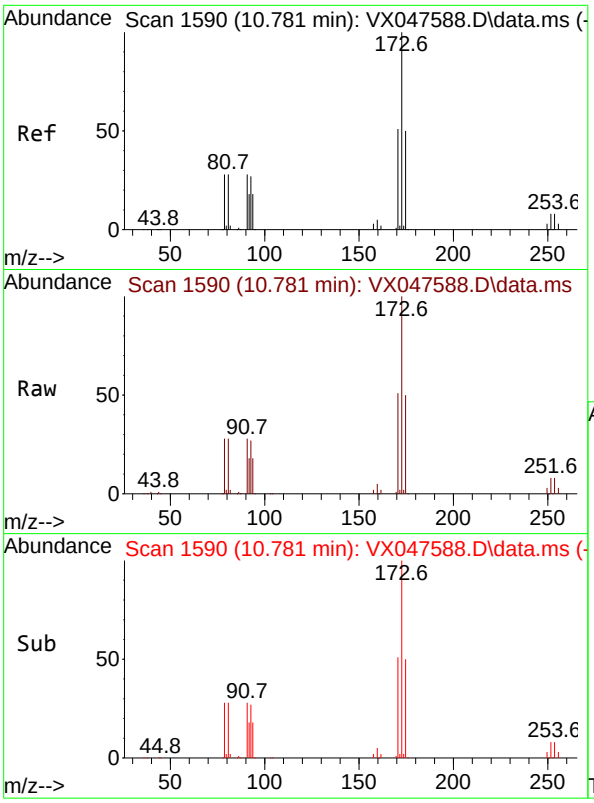


#70
Styrene
Concen: 52.515 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:104 Resp: 350654

Ion	Ratio	Lower	Upper
104	100		
78	53.9	43.1	64.7
103	53.9	43.1	64.7

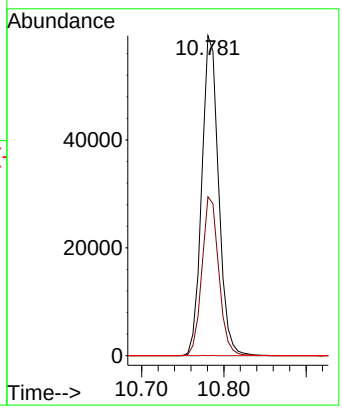




#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:173 Resp: 8448

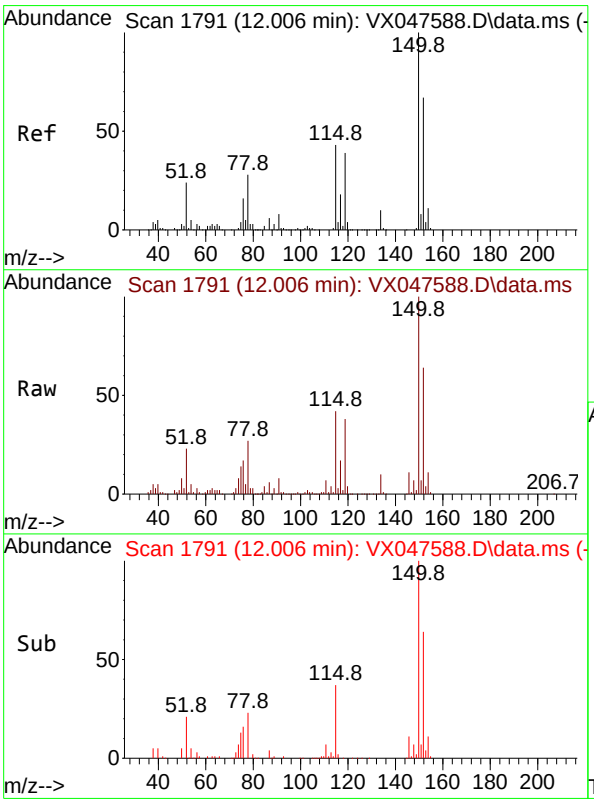
Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

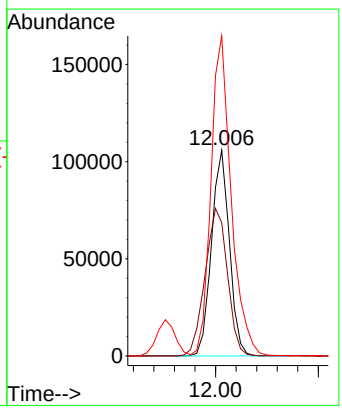
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

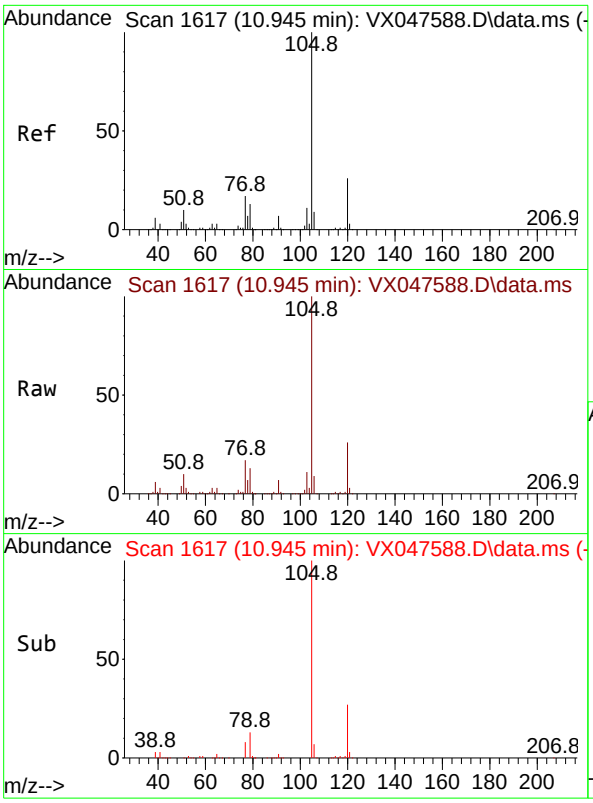


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:152 Resp: 127732

Ion	Ratio	Lower	Upper
152	100		
115	89.7	44.9	134.5
150	176.0	0.0	352.0

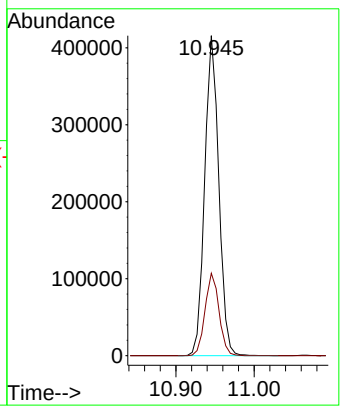




#73
Isopropylbenzene
Concen: 53.227 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 51689

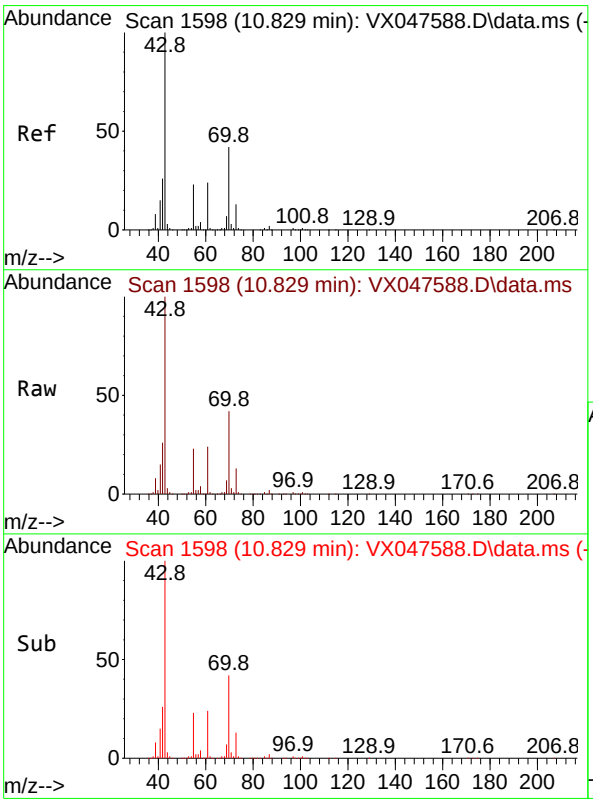
Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

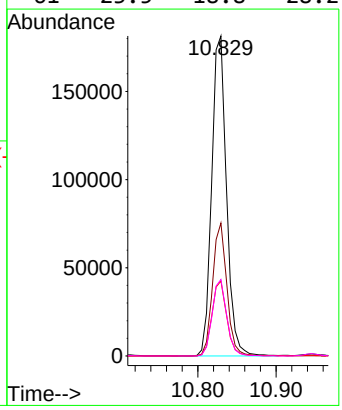
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

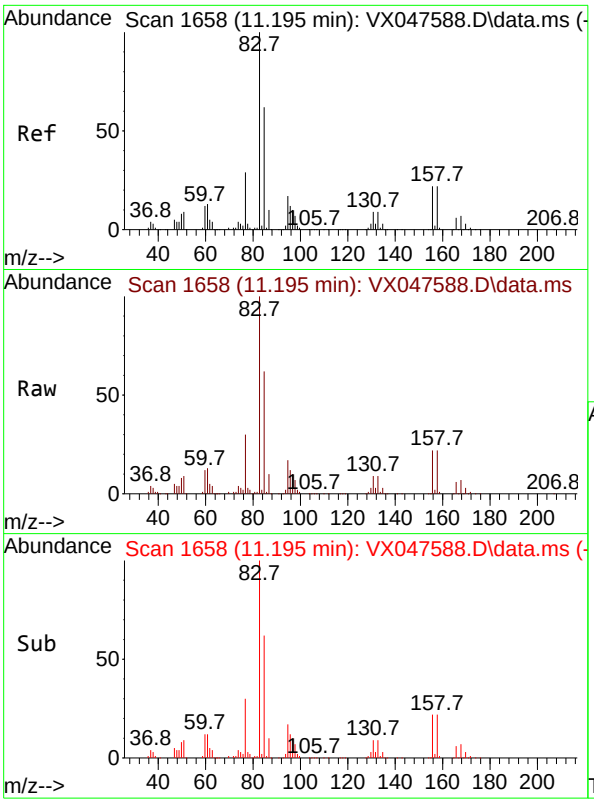


#74
N-amyl acetate
Concen: 53.710 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 237846

Ion	Ratio	Lower	Upper
43	100		
70	40.0	32.0	48.0
55	23.6	18.9	28.3
61	23.5	18.8	28.2

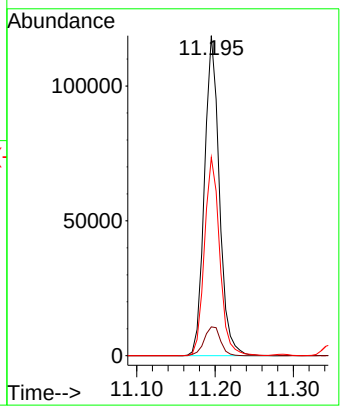




#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 15645

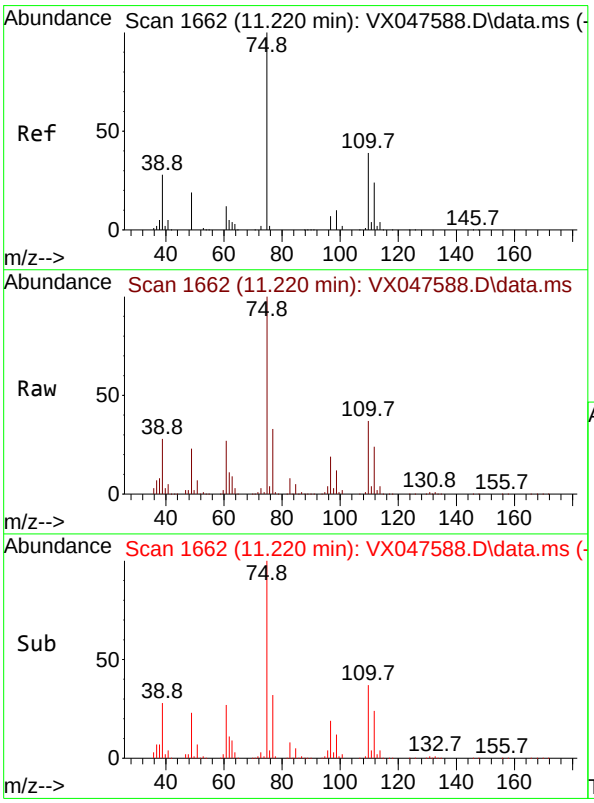
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

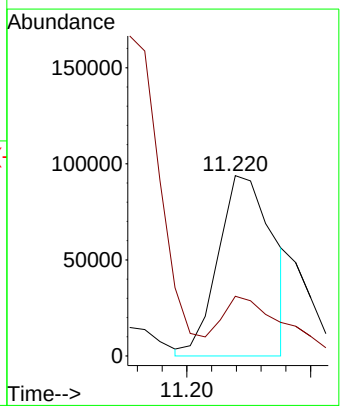
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

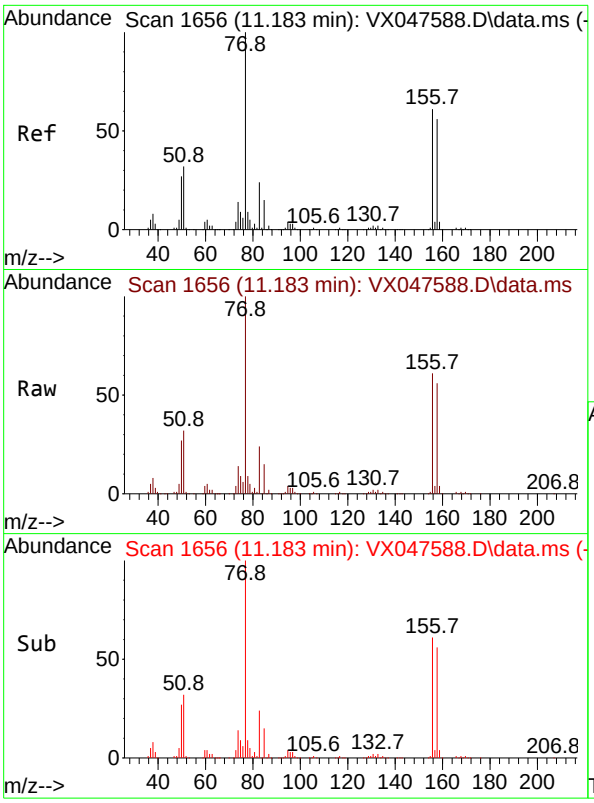


#76
1,2,3-Trichloropropane
Concen: 54.322 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 144074

Ion	Ratio	Lower	Upper
75	100		
77	37.6	18.8	56.4

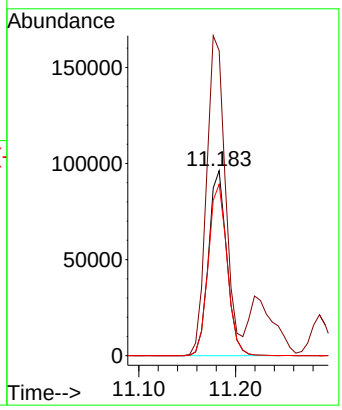




#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:156 Resp: 12617

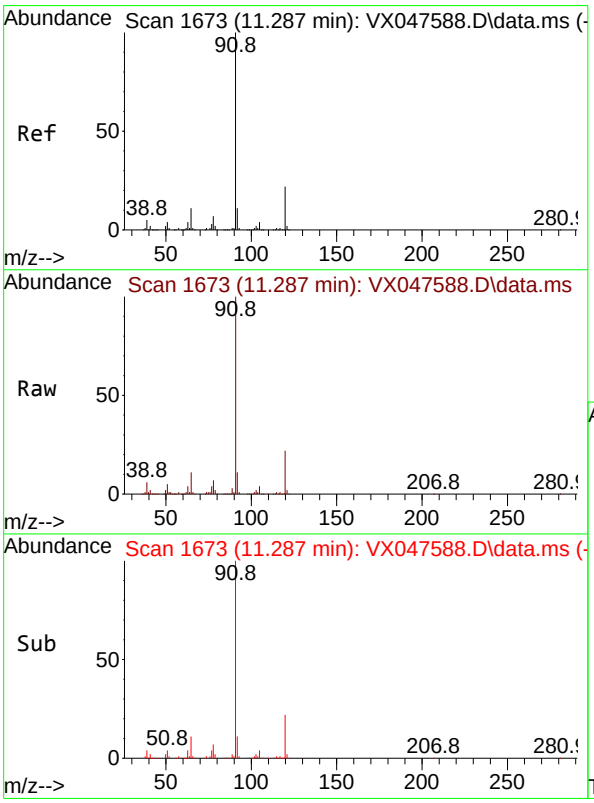
Ion	Ratio	Lower	Upper
156	100		
77	179.4	89.7	269.1
158	95.7	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

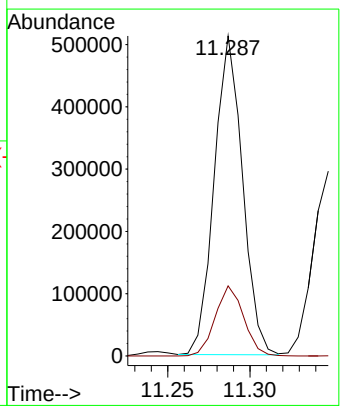
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

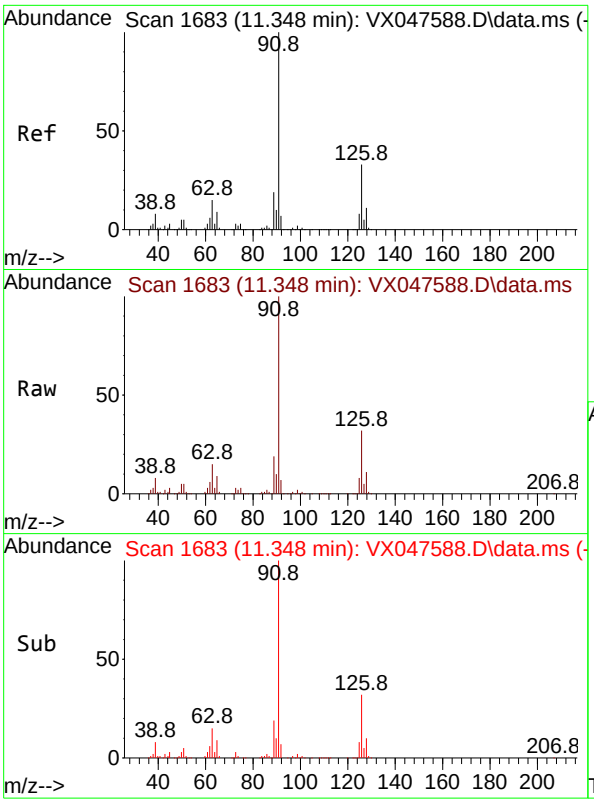


#78
n-propylbenzene
Concen: 53.315 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 612035

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1





#79
2-Chlorotoluene
Concen: 52.965 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

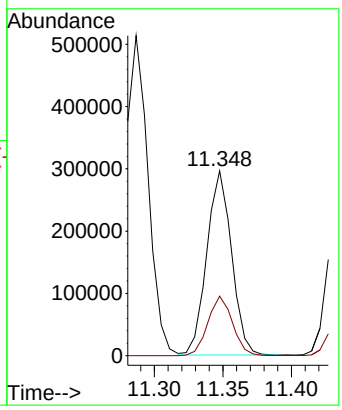
Tgt Ion: 91 Resp: 37239

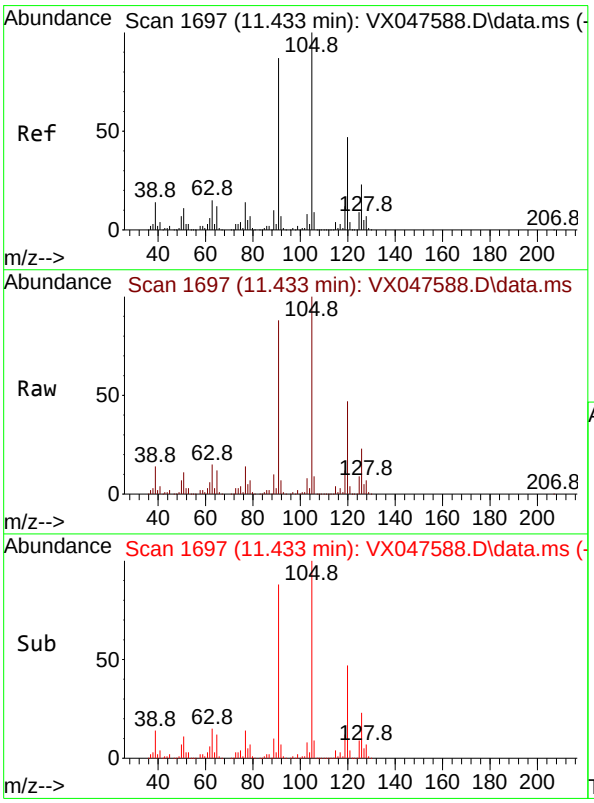
Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

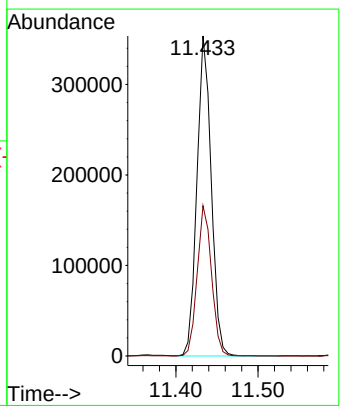


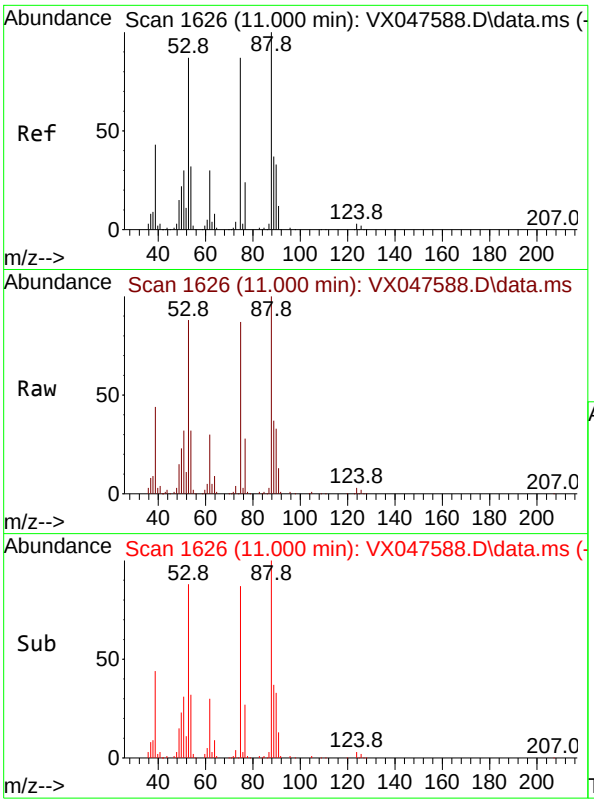


#80
1,3,5-Trimethylbenzene
Concen: 53.518 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 426989

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8

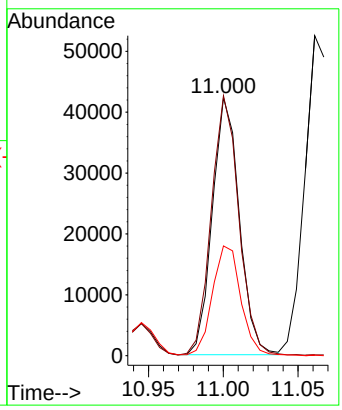




#81
trans-1,4-Dichloro-2-butene
Concen: 52.190 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 5292

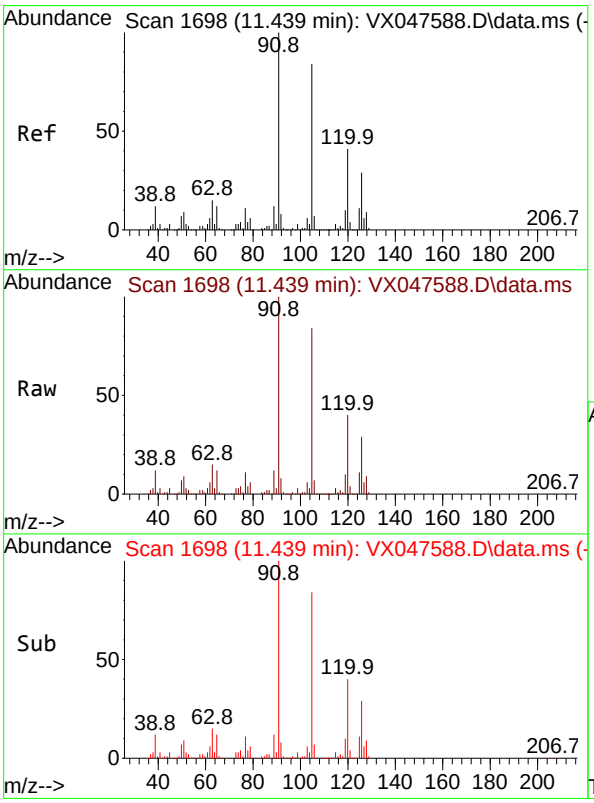
Ion	Ratio	Lower	Upper
75	100		
53	104.3	83.4	125.2
89	45.4	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

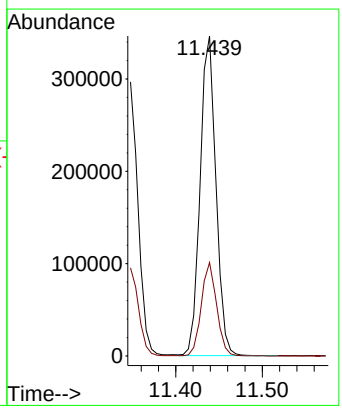
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

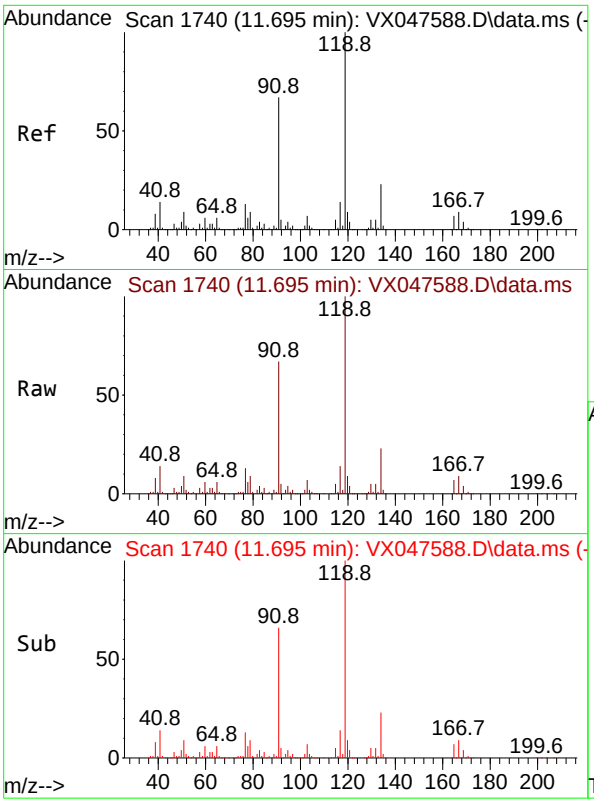


#82
4-Chlorotoluene
Concen: 52.806 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 438502

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6

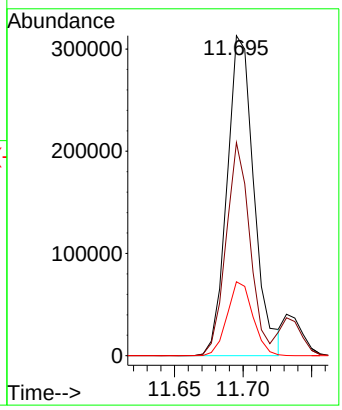




#83
tert-Butylbenzene
Concen: 52.539 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 42910

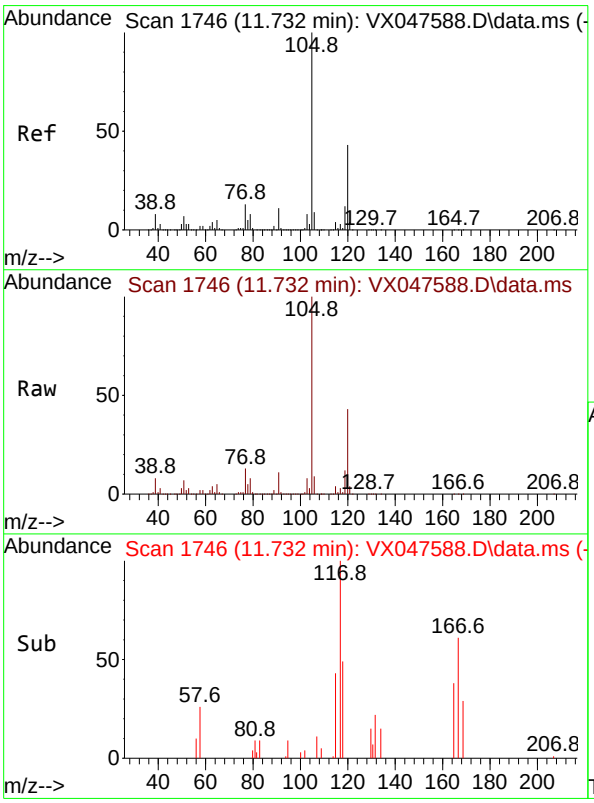
Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.0	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

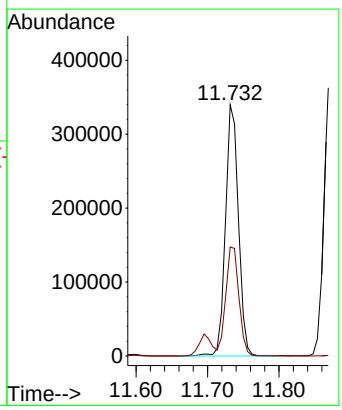
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

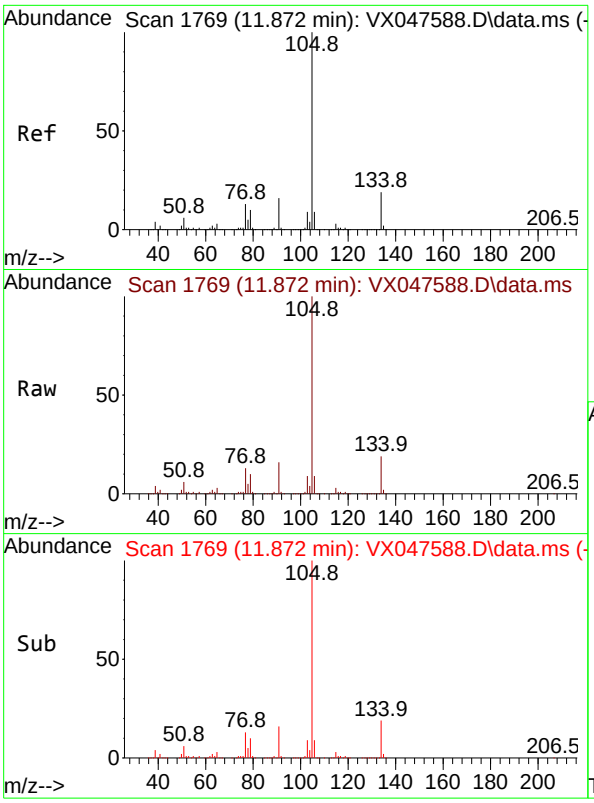


#84
1,2,4-Trimethylbenzene
Concen: 52.798 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 427073

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

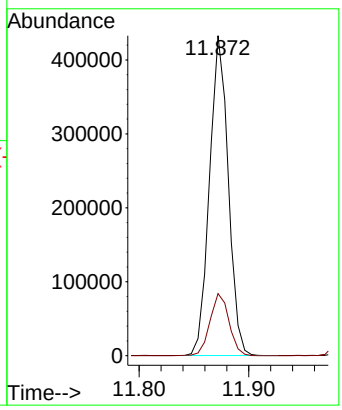




#85
sec-Butylbenzene
Concen: 53.029 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 51444

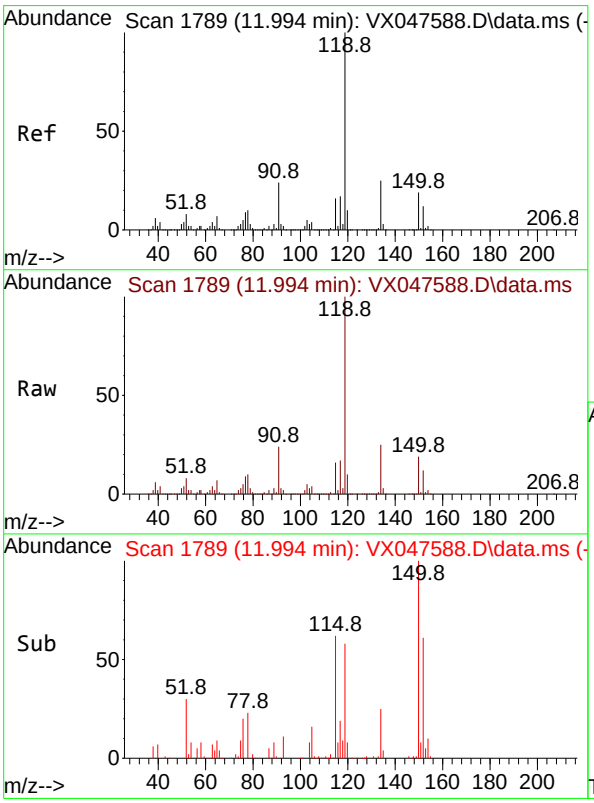
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

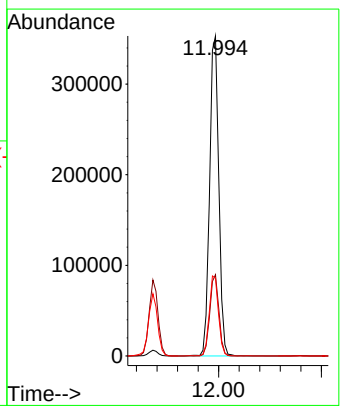
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

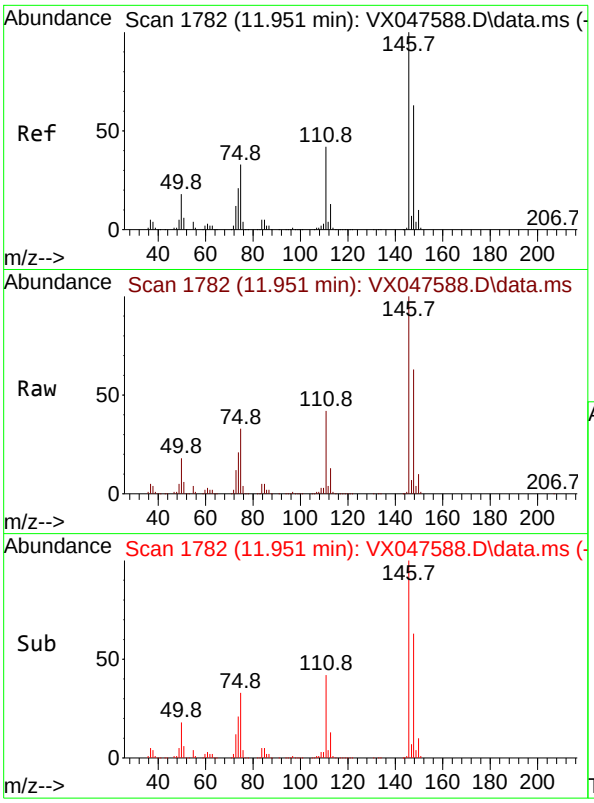


#86
p-Isopropyltoluene
Concen: 53.172 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 436704

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	25.1	12.6	37.6

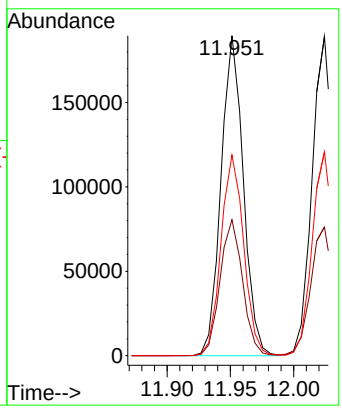




#87
1,3-Dichlorobenzene
Concen: 52.232 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 23203

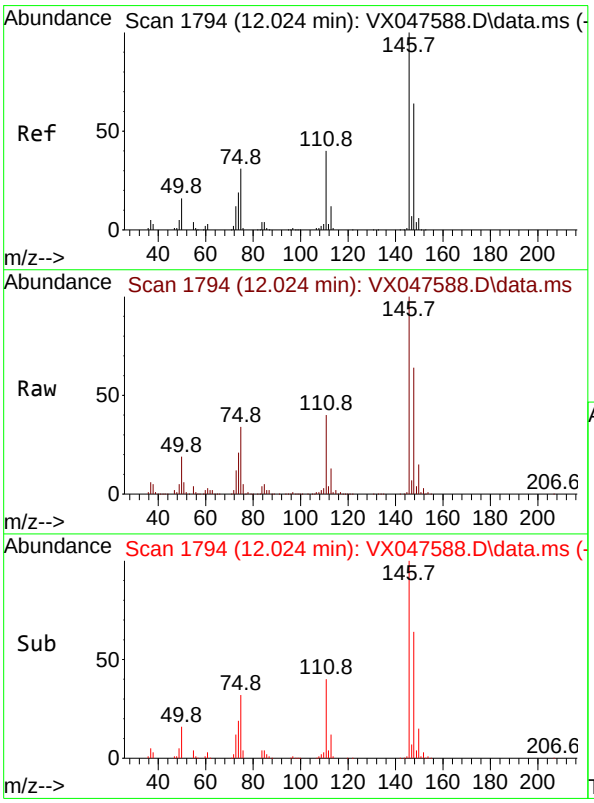
Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	64.0	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

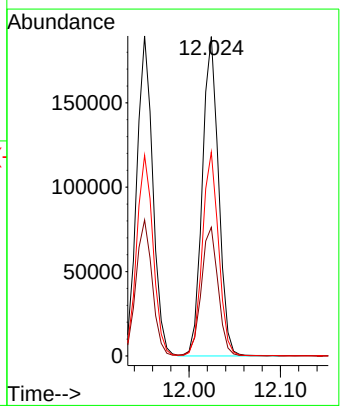
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

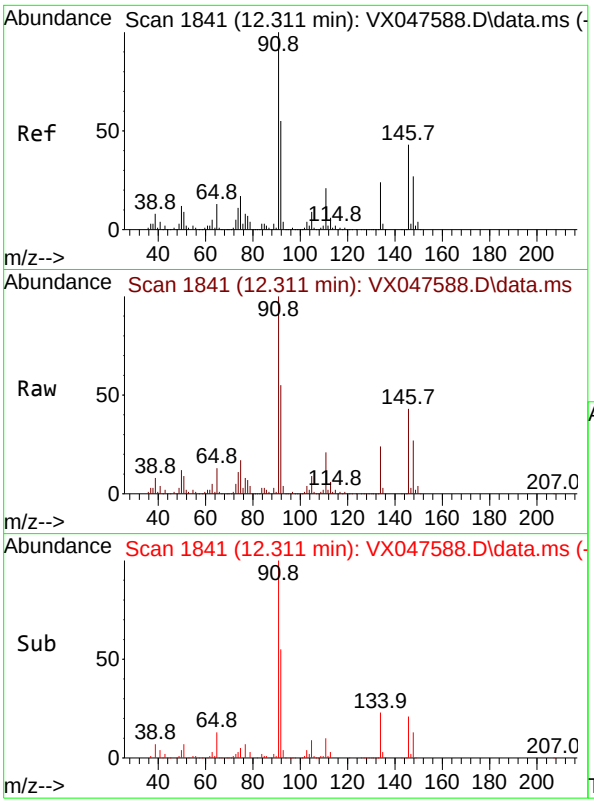


#88
1,4-Dichlorobenzene
Concen: 51.316 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 233975

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.4	31.7	95.1

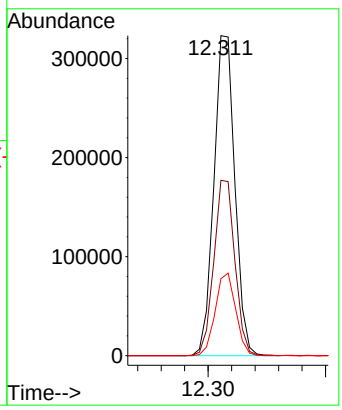




#89
n-Butylbenzene
Concen: 52.766 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 40099

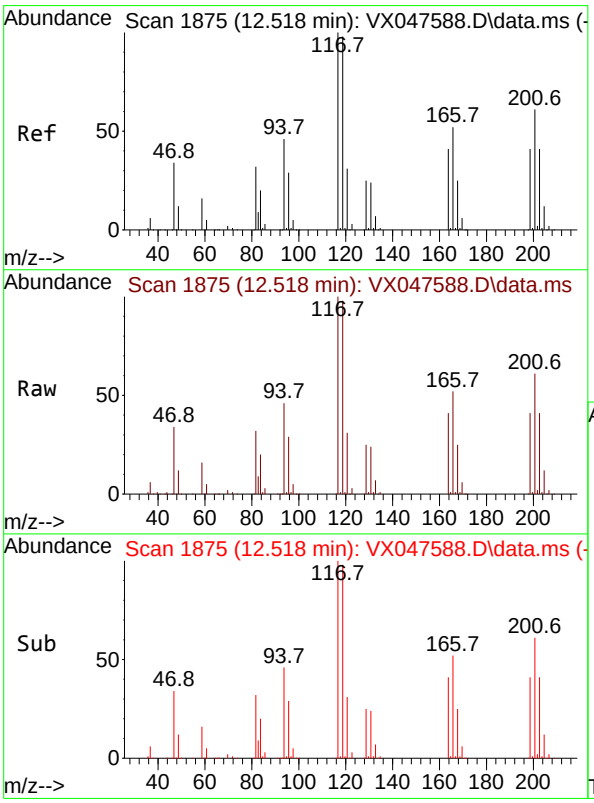
Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

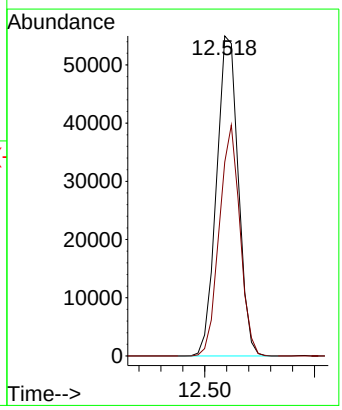
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

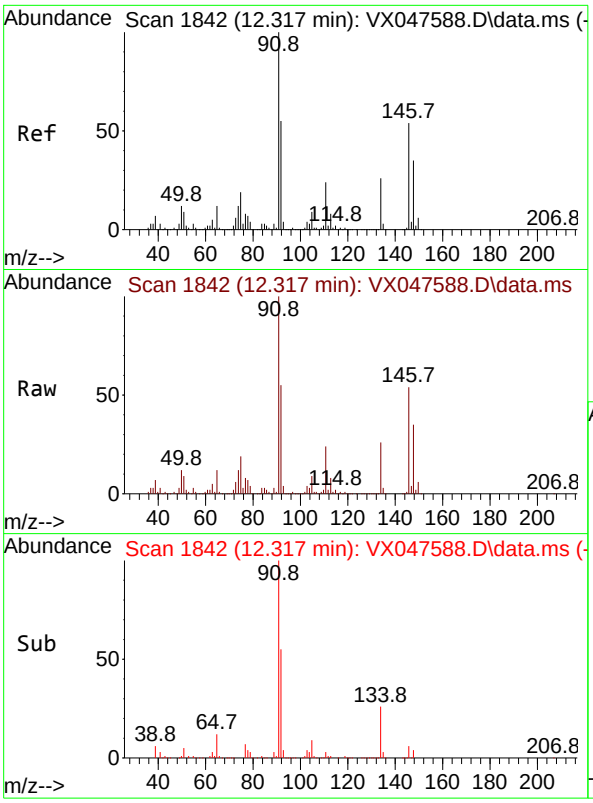


#90
Hexachloroethane
Concen: 52.567 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 75800

Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5

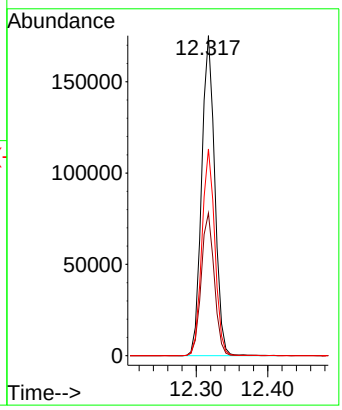




#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 22299

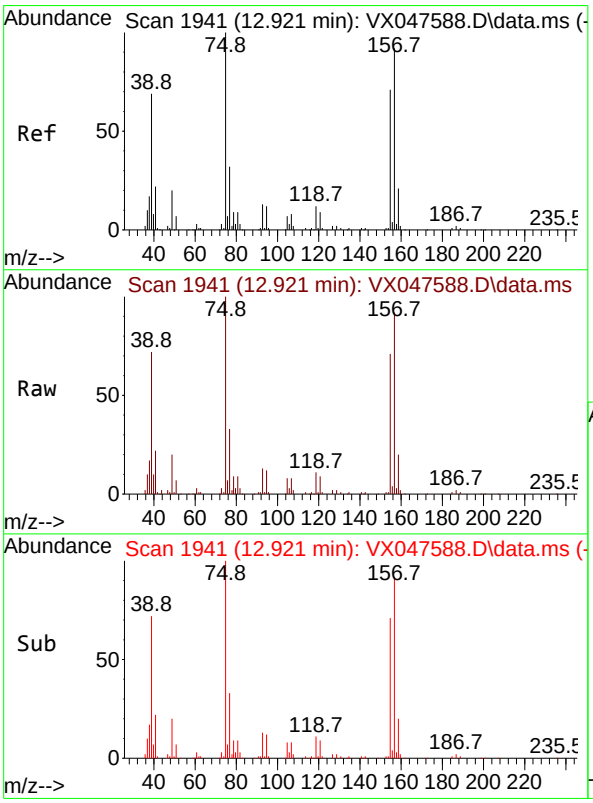
Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.2	66.6
148	63.6	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

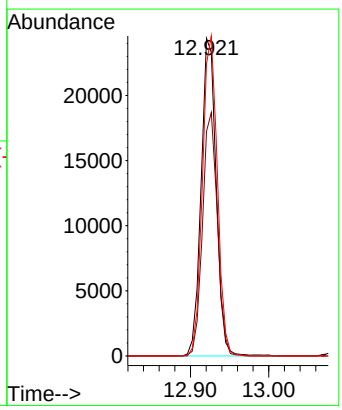
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

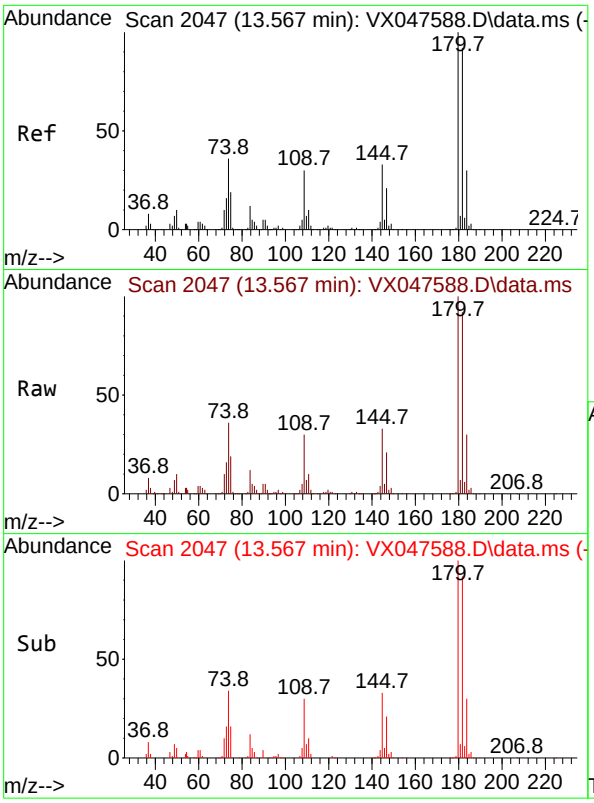


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.554 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 32451

Ion	Ratio	Lower	Upper
75	100		
155	75.4	37.7	113.1
157	99.6	49.8	149.4

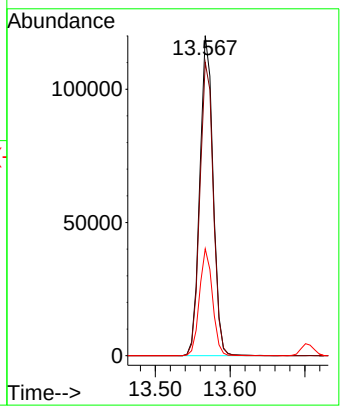




#93
1,2,4-Trichlorobenzene
Concen: 53.685 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 14767

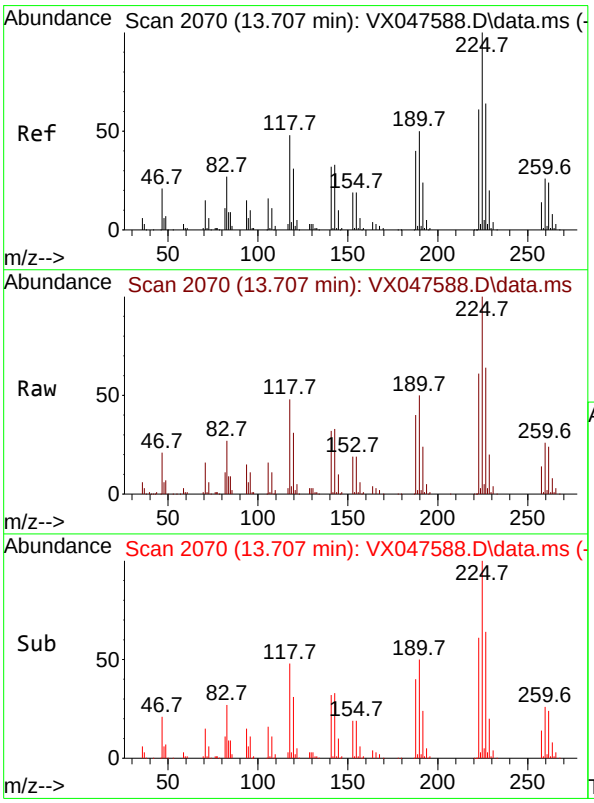
Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

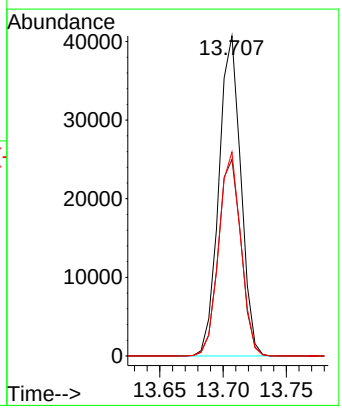
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

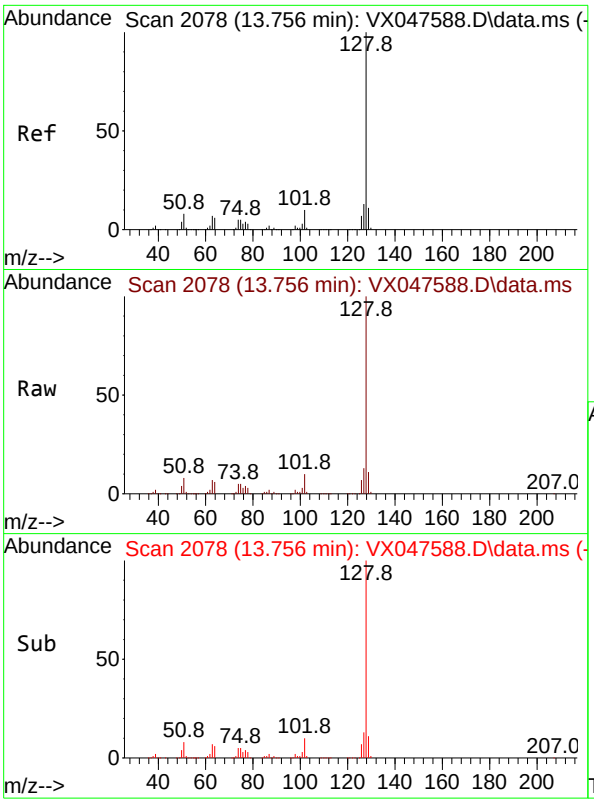


#94
Hexachlorobutadiene
Concen: 52.510 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:225 Resp: 49061

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.7	95.1
227	64.0	32.0	96.0

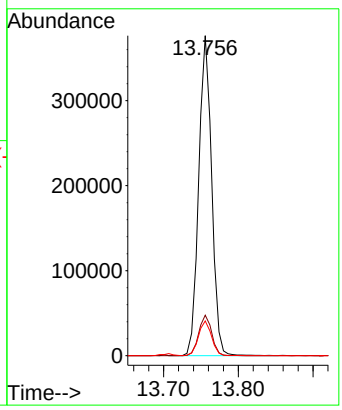




#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:128 Resp: 45201

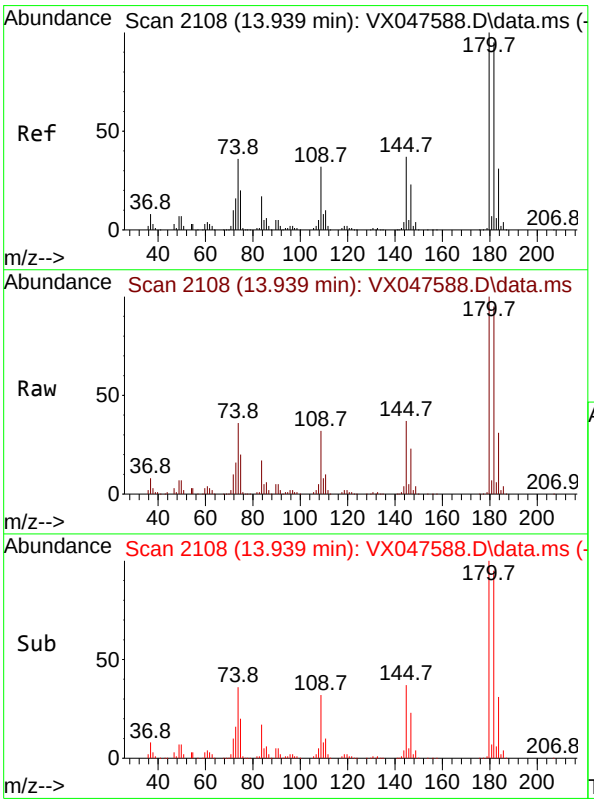
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

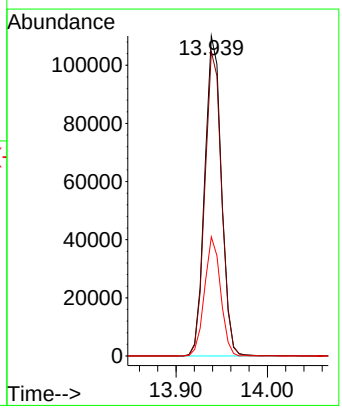
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.316 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 138978

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	35.8	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	229521m	90.444	ug/l	
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

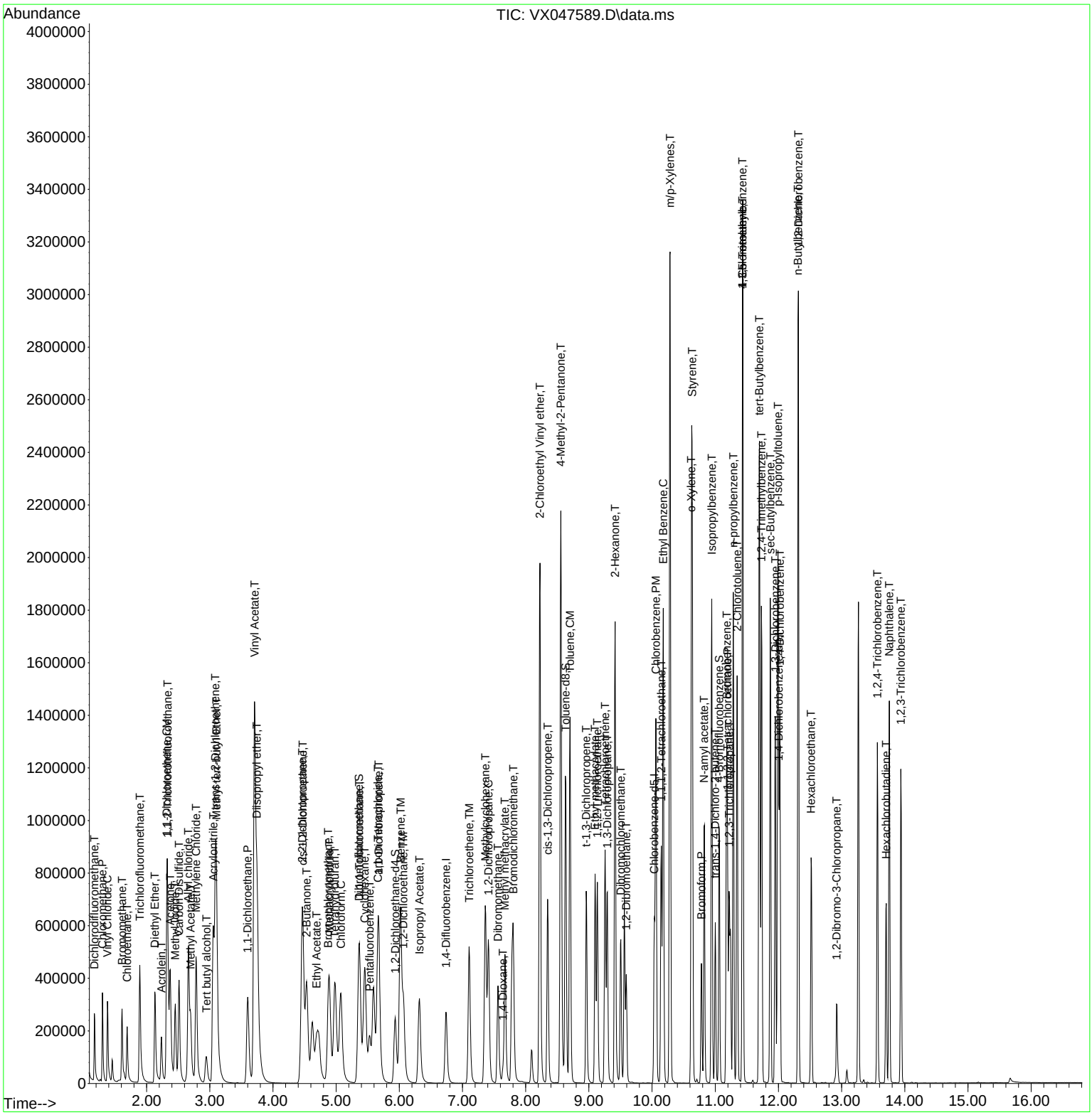
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

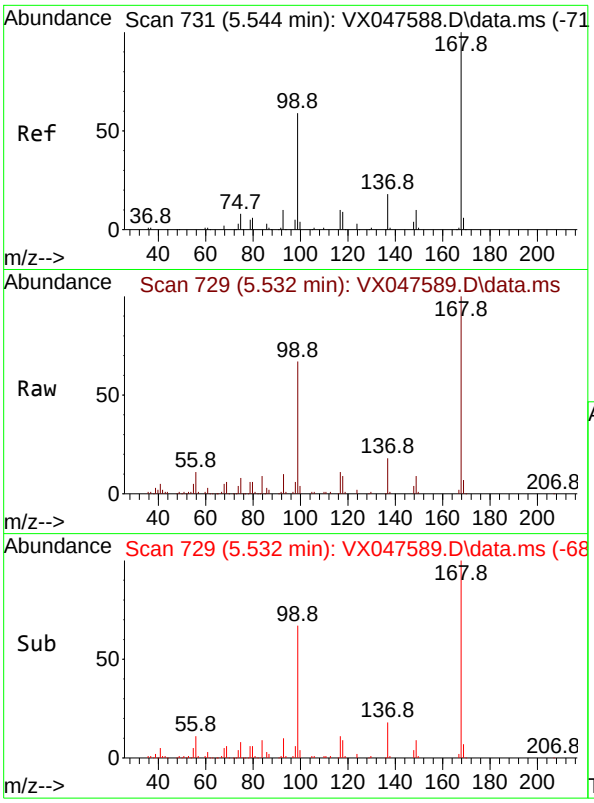
Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

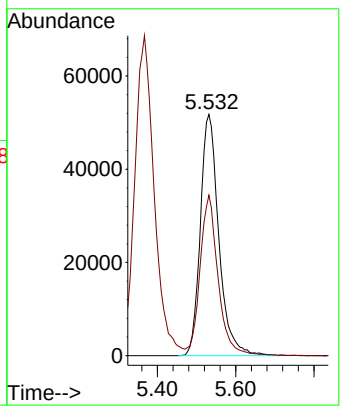




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:168 Resp: 16928

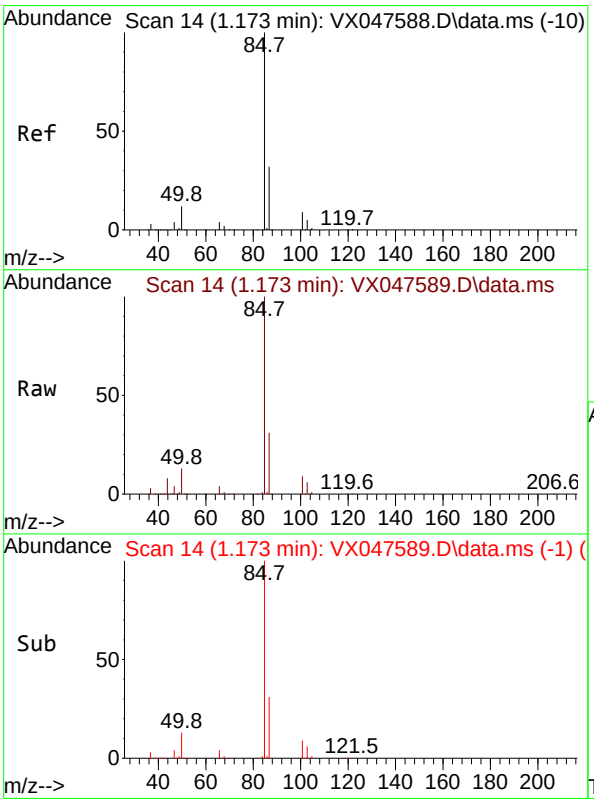
Ion	Ratio	Lower	Upper
168	100		
99	66.4	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

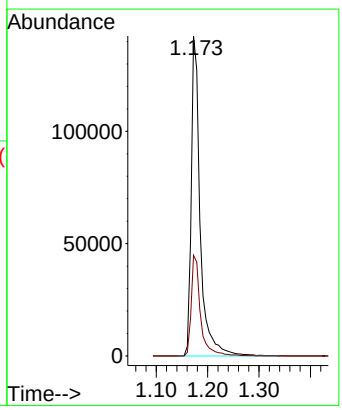
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

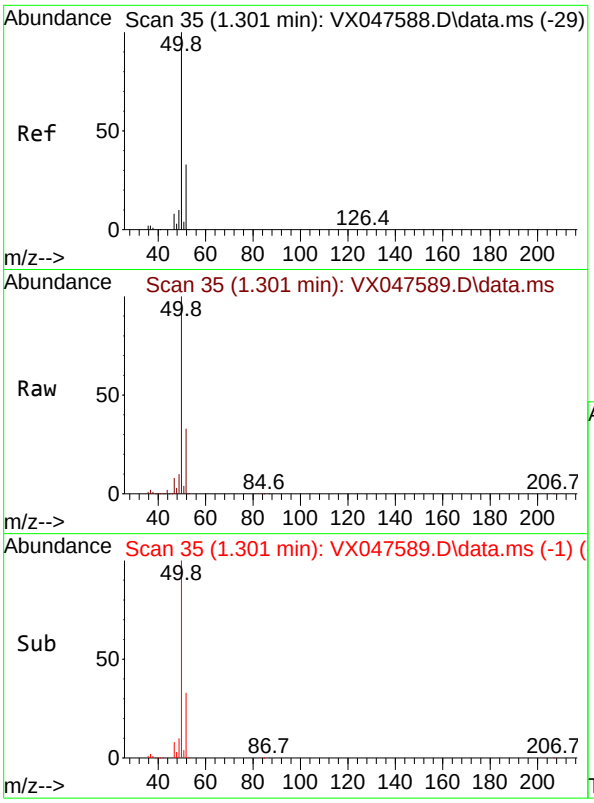


#2
Dichlorodifluoromethane
Concen: 98.537 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 85 Resp: 172727

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3

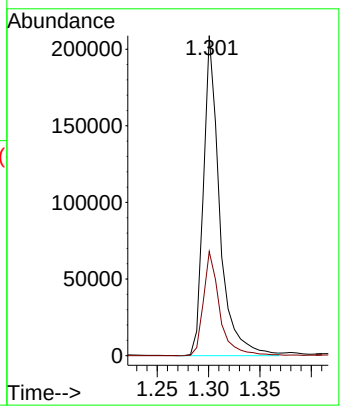




#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 50 Resp: 22916

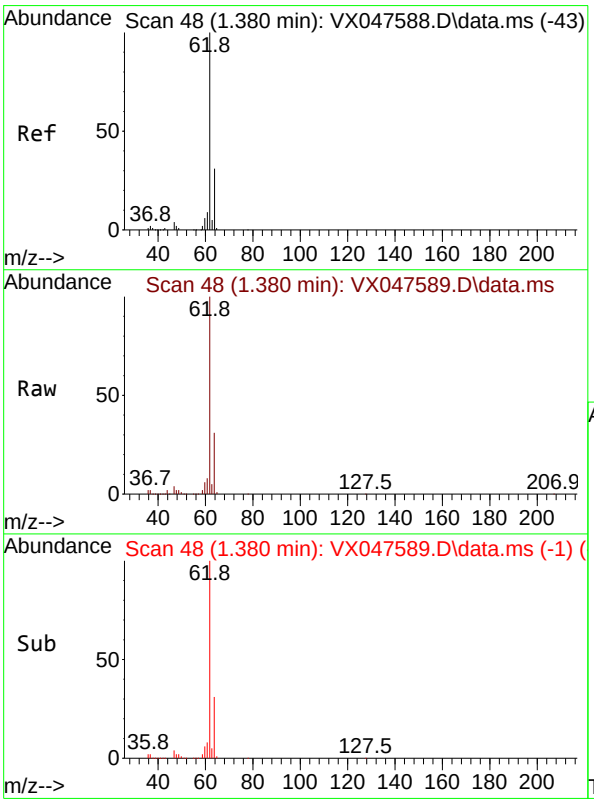
Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

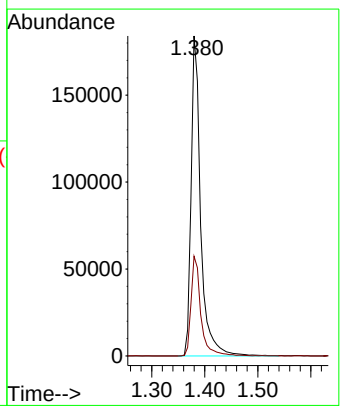
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

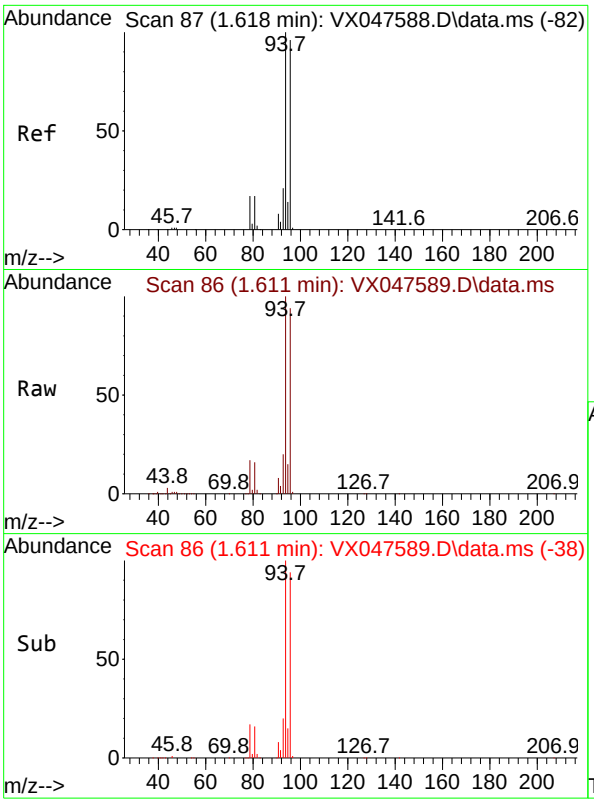


#4
Vinyl Chloride
Concen: 101.621 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 229175

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

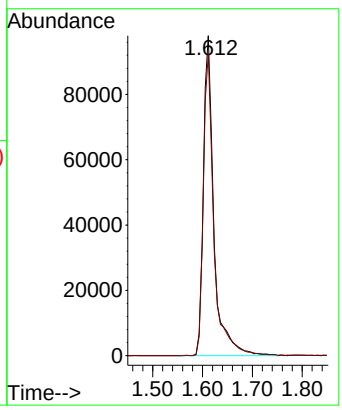




#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 94 Resp: 14311

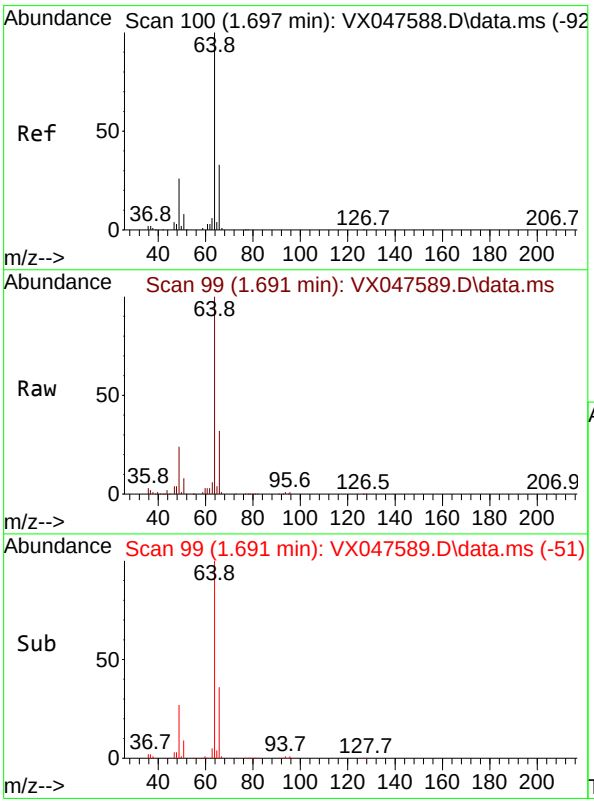
Ion	Ratio	Lower	Upper
94	100		
96	94.4	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

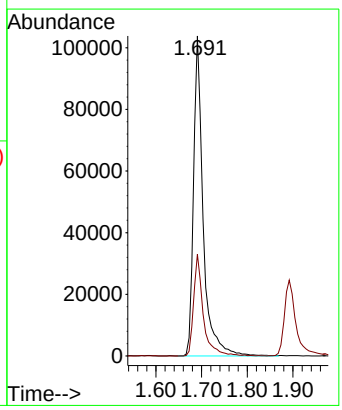
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

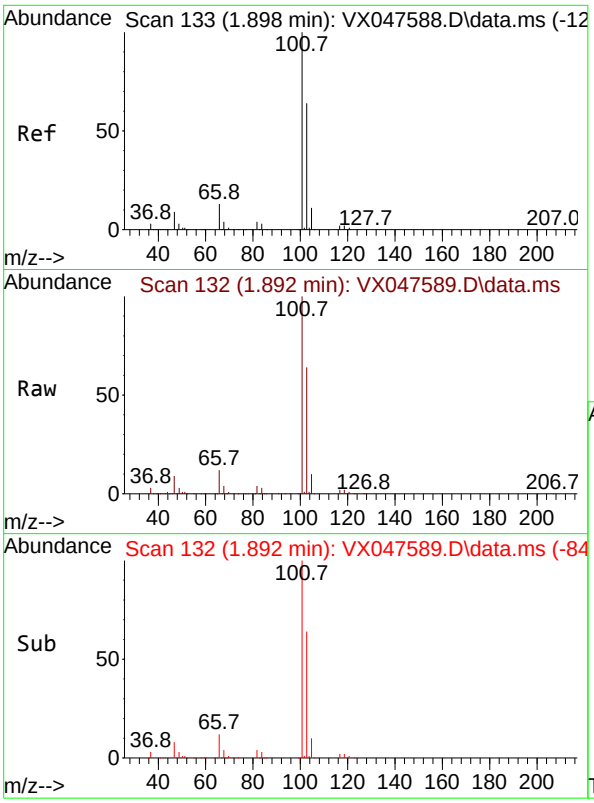


#6
Chloroethane
Concen: 101.167 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 64 Resp: 152487

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.1	39.1

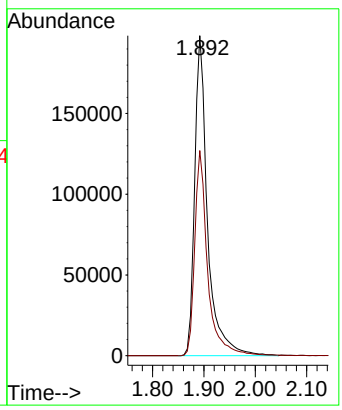




#7
Trichlorofluoromethane
Concen: 102.878 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:101 Resp: 34448

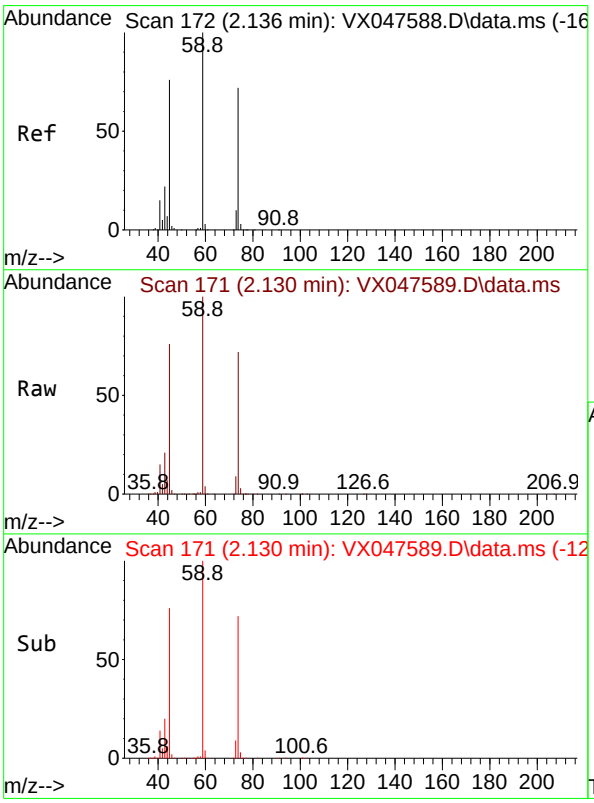
Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

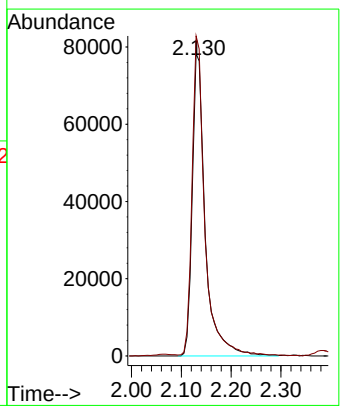
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

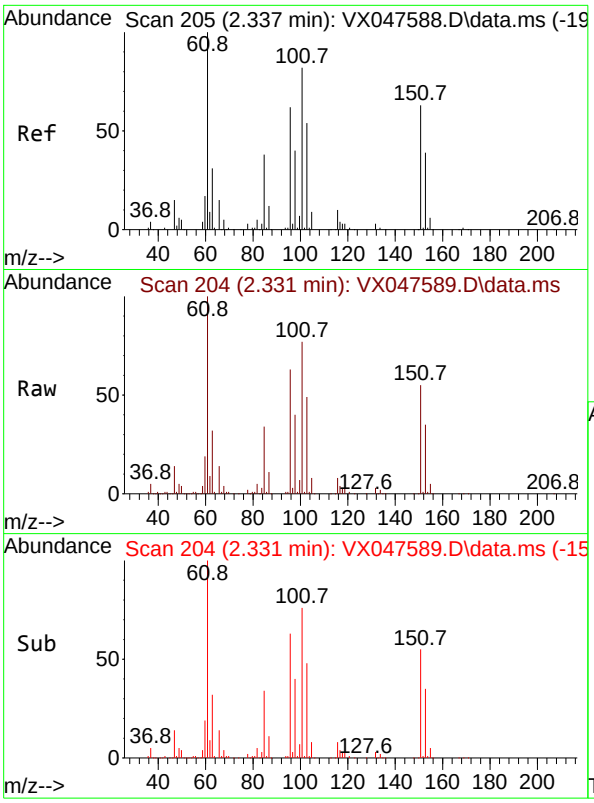


#8
Diethyl Ether
Concen: 103.695 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 74 Resp: 142038

Ion	Ratio	Lower	Upper
74	100		
45	104.6	52.3	156.8

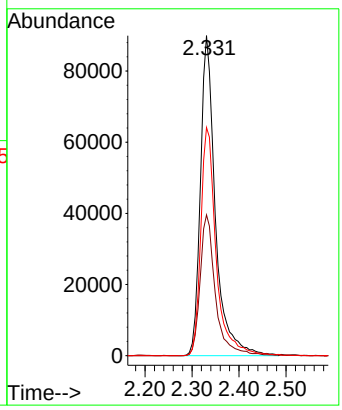




#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.067 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:101 Resp: 19984

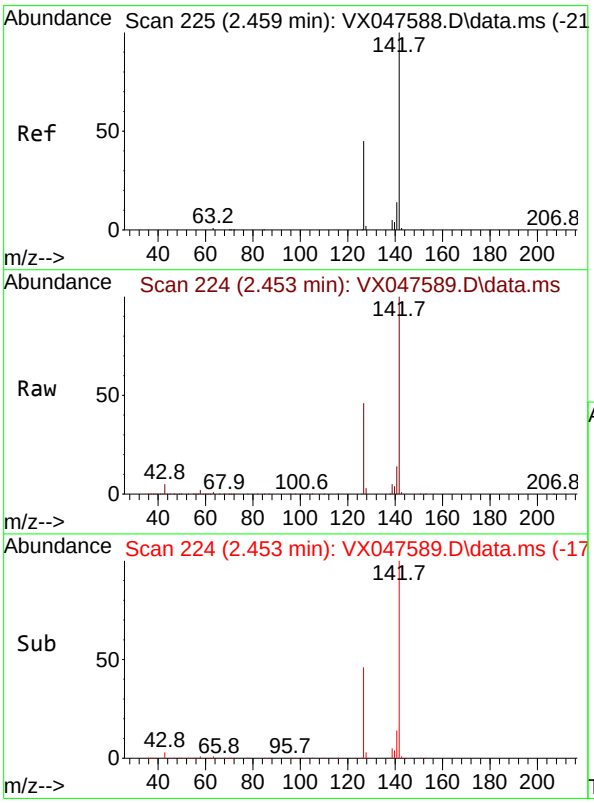
Ion	Ratio	Lower	Upper
101	100		
85	45.1	35.5	53.3
151	73.6	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

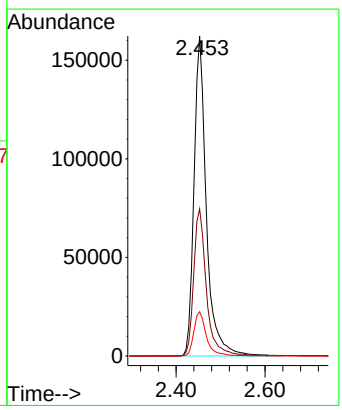
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

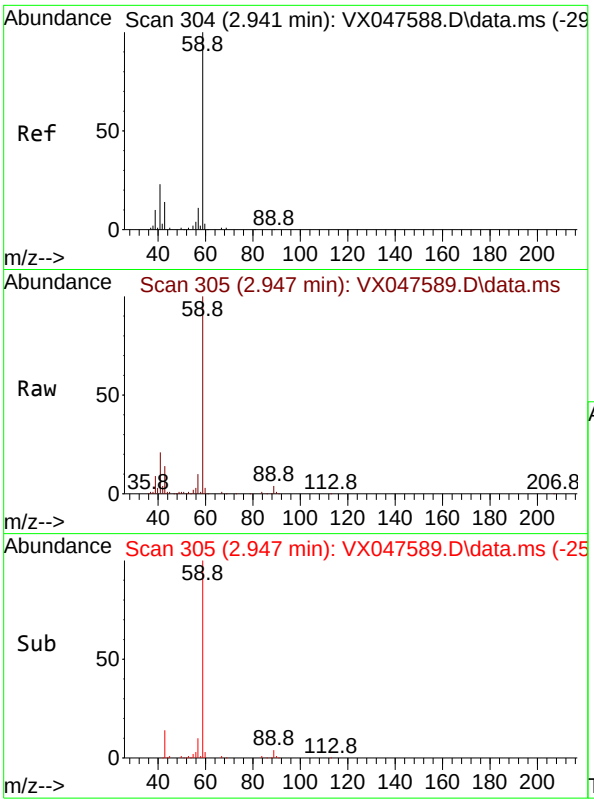


#10
Methyl Iodide
Concen: 102.531 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:142 Resp: 313092

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.1	11.4	17.0

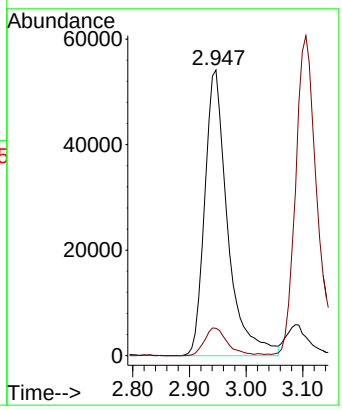




#11
Tert butyl alcohol
Concen: 506.863 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 59 Resp: 15210

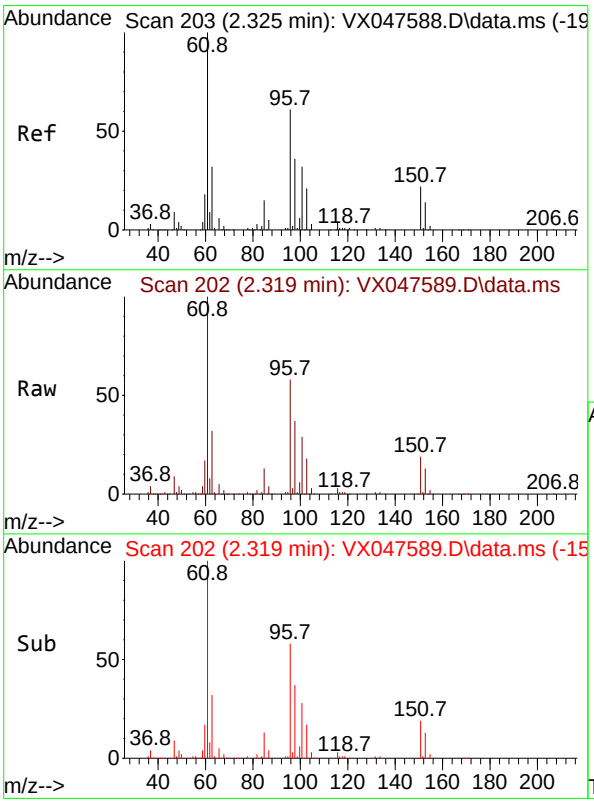
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

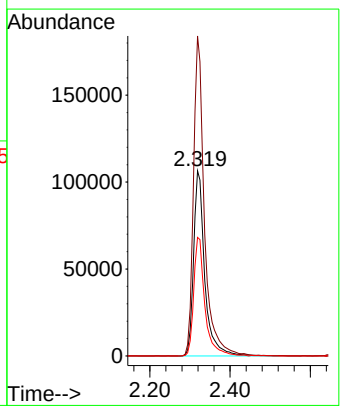
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

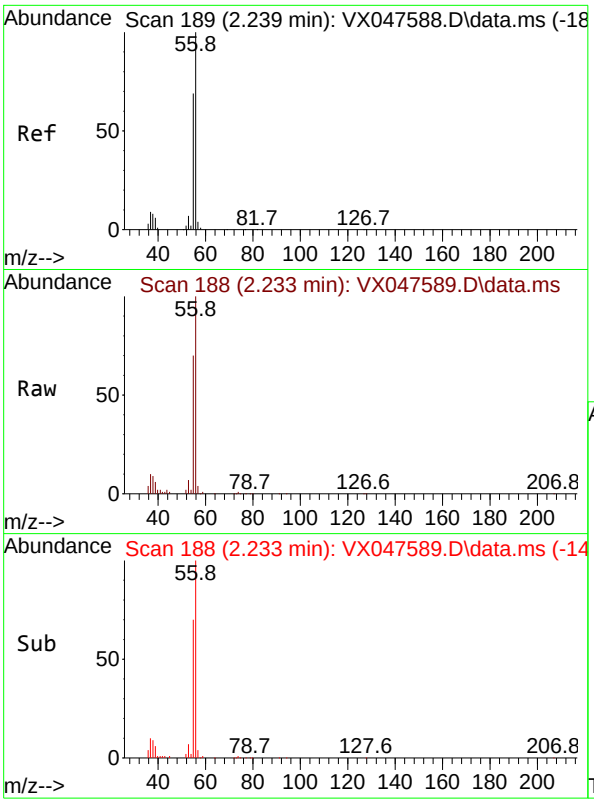


#12
1,1-Dichloroethene
Concen: 102.473 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 206097

Ion	Ratio	Lower	Upper
96	100		
61	172.9	131.0	196.6
98	64.0	47.7	71.5

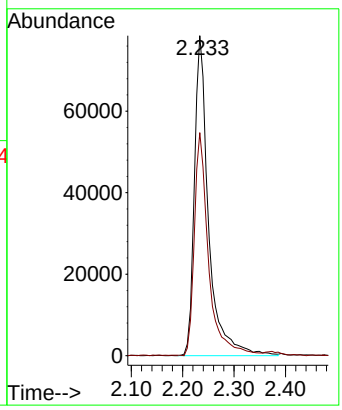




#13
Acrolein
Concen: 545.276 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 56 Resp: 15079

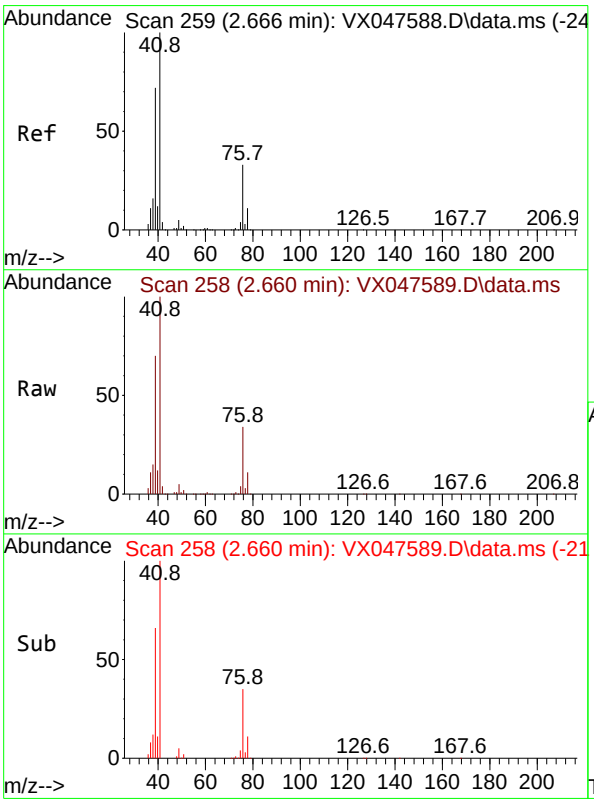
Ion	Ratio	Lower	Upper
56	100		
55	69.4	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

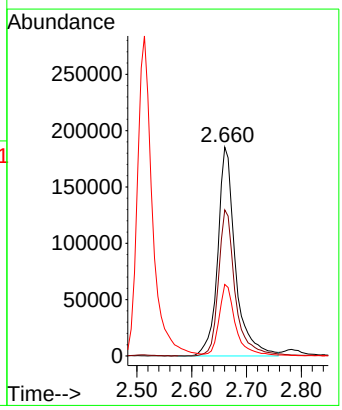
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

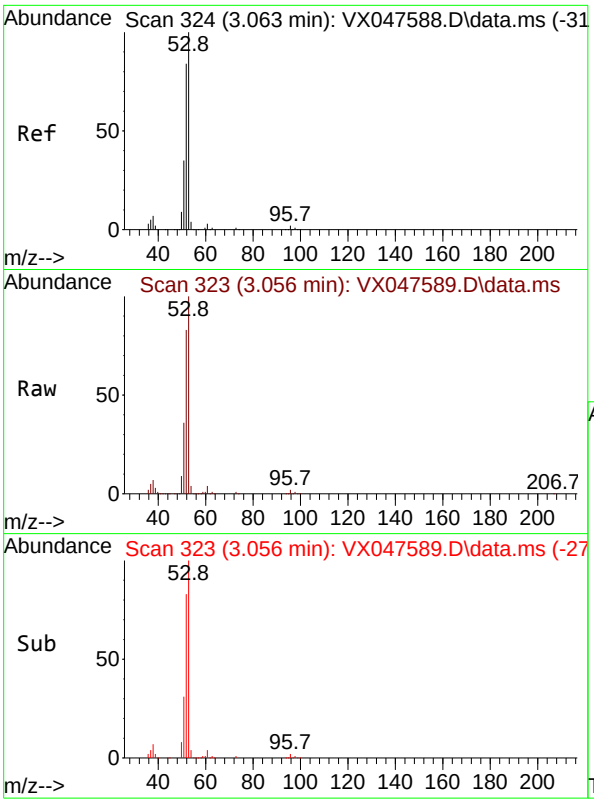


#14
Allyl chloride
Concen: 100.028 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 415140

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.7	82.1
76	32.2	25.7	38.5

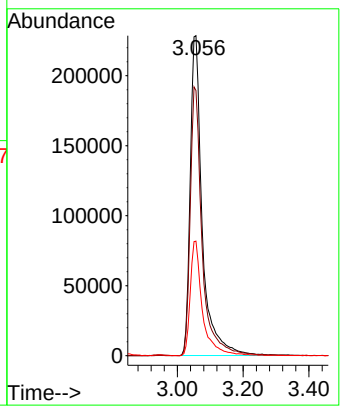




#15
Acrylonitrile
Concen: 522.897 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 53 Resp: 58124

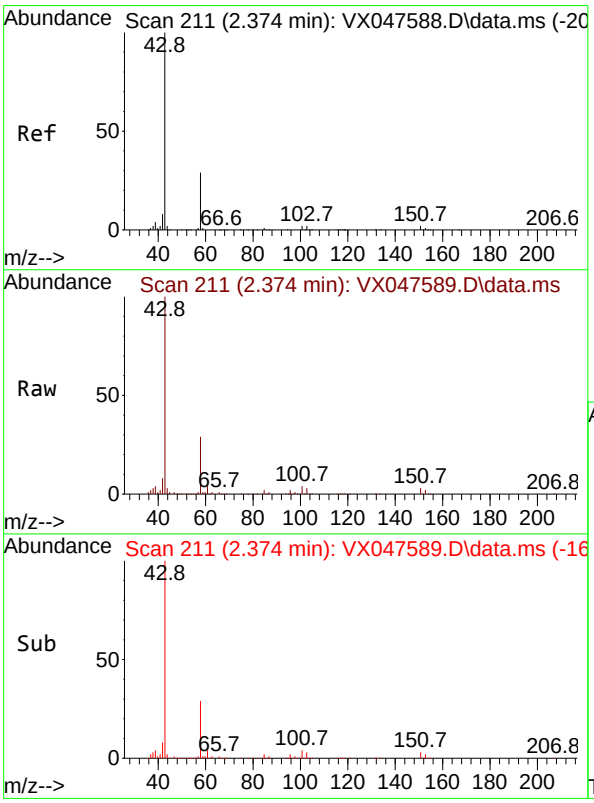
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.4	99.6
51	36.4	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

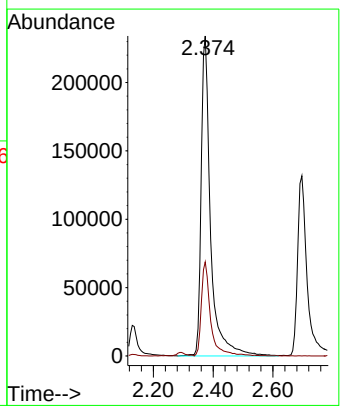
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

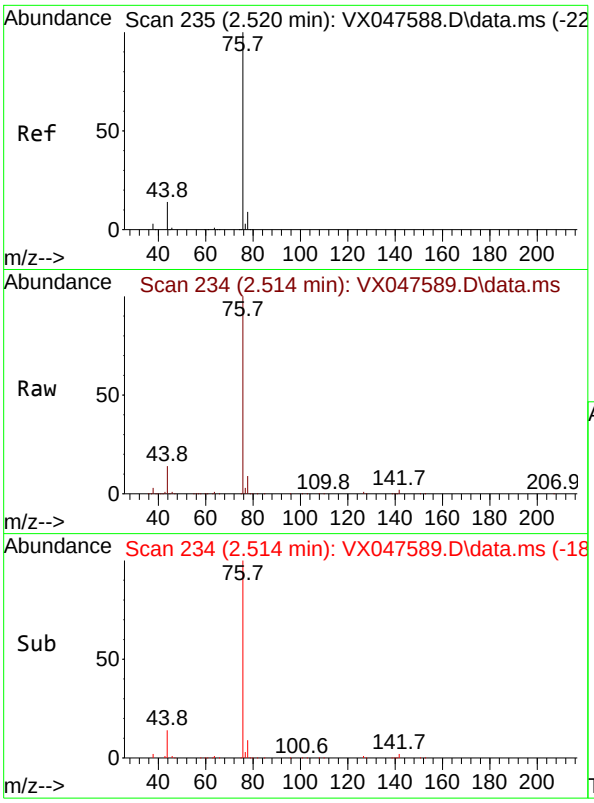


#16
Acetone
Concen: 435.772 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 510542

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0

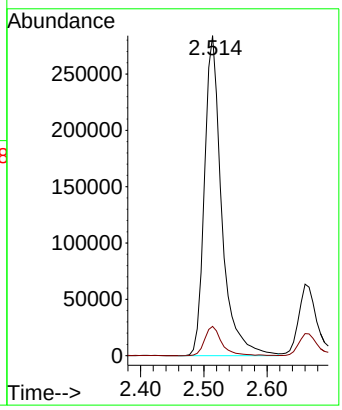




#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 76 Resp: 53788

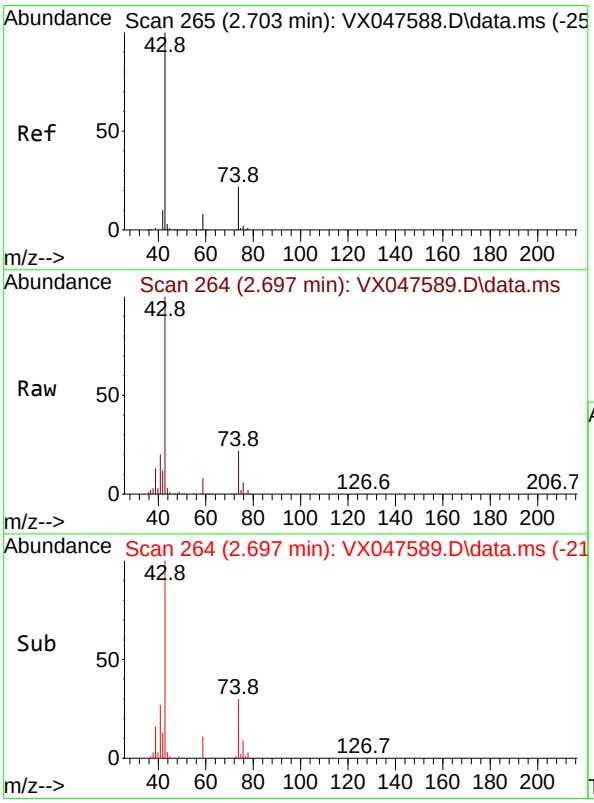
Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

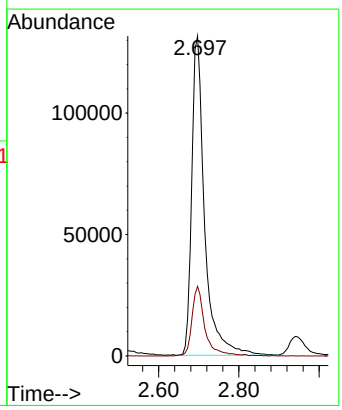
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

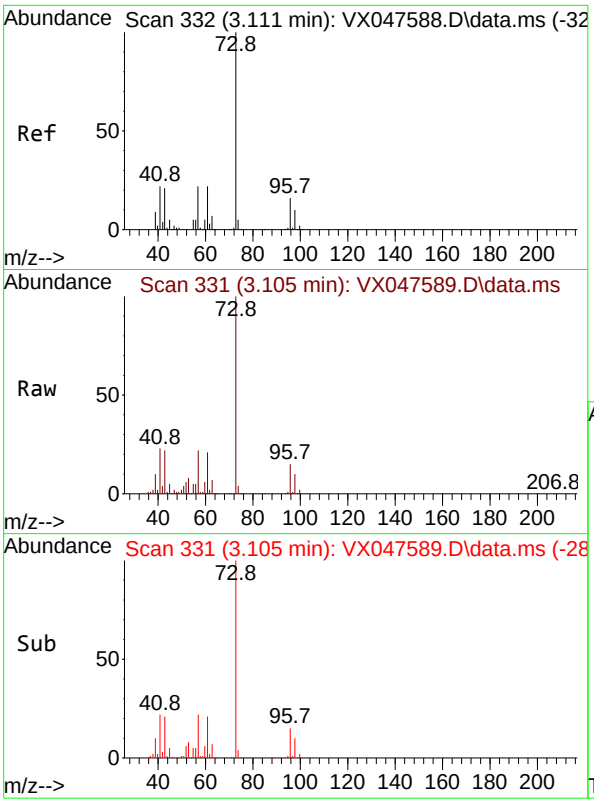


#18
Methyl Acetate
Concen: 112.324 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 292867

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

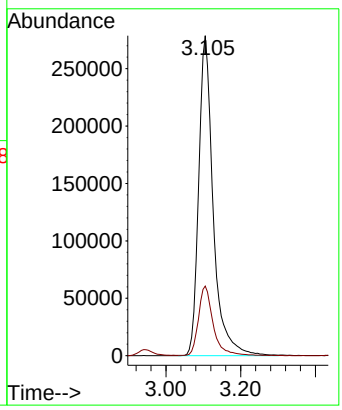




#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 73 Resp: 74895

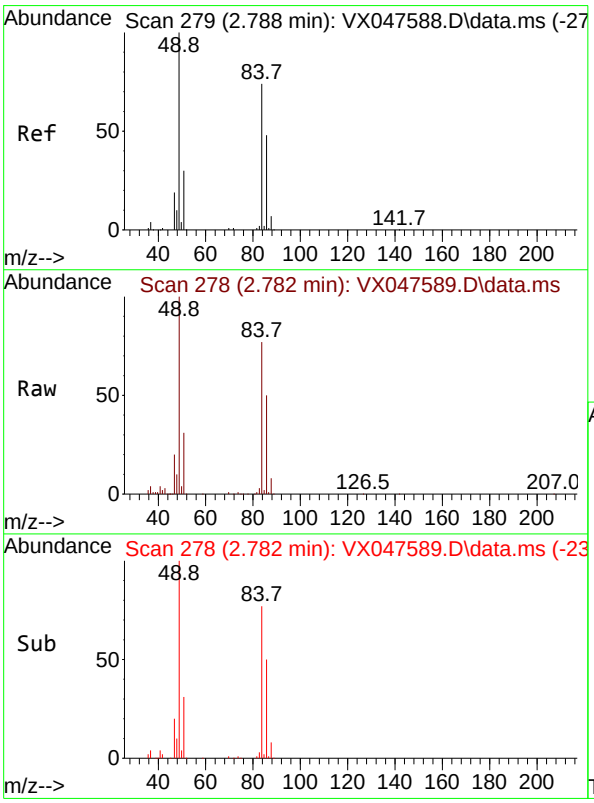
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

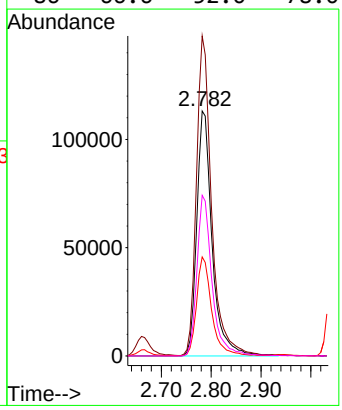
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

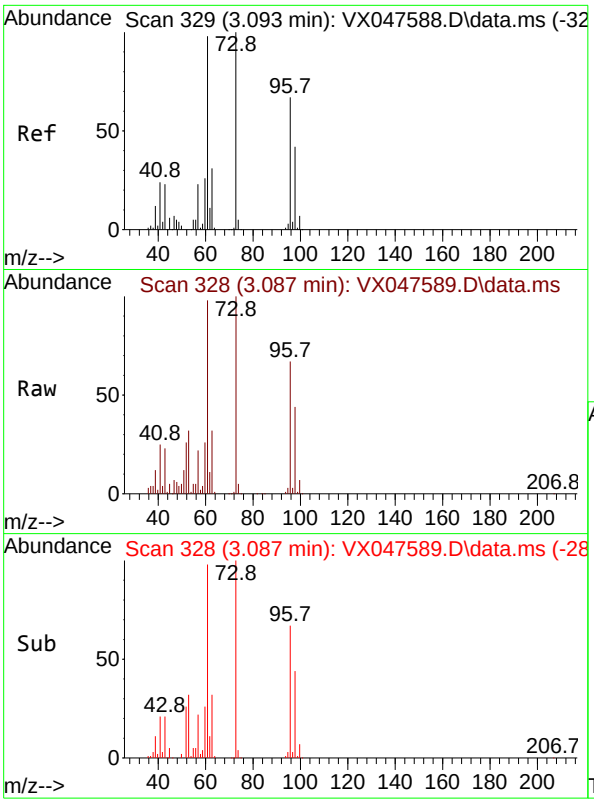


#20
Methylene Chloride
Concen: 97.805 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 84 Resp: 242548

Ion	Ratio	Lower	Upper
84	100		
49	130.4	108.6	162.8
51	40.3	32.6	48.8
86	66.6	52.0	78.0

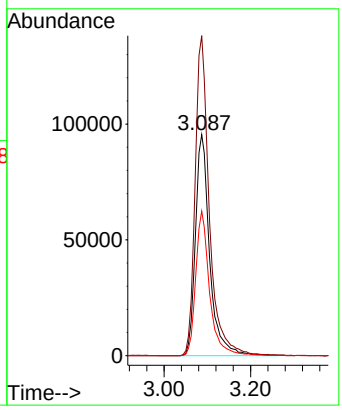




#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 21775

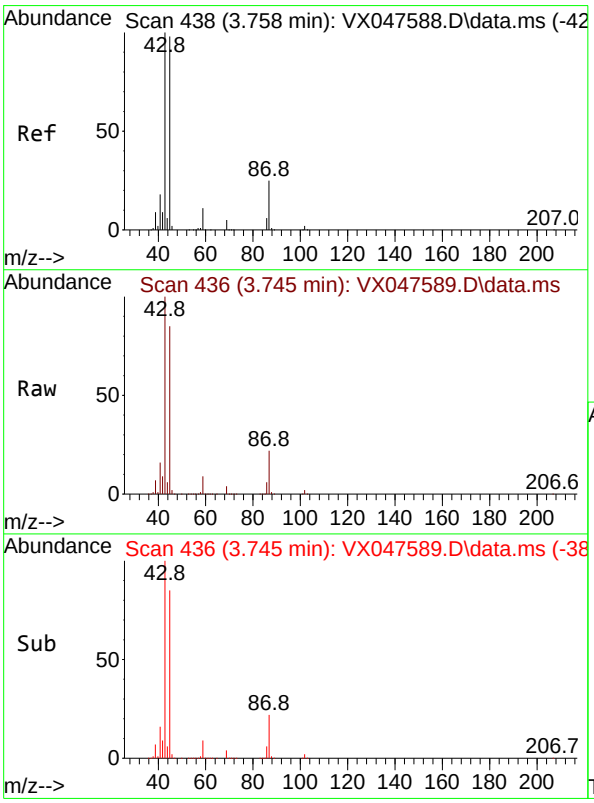
Ion	Ratio	Lower	Upper
96	100		
61	144.7	116.2	174.2
98	65.4	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

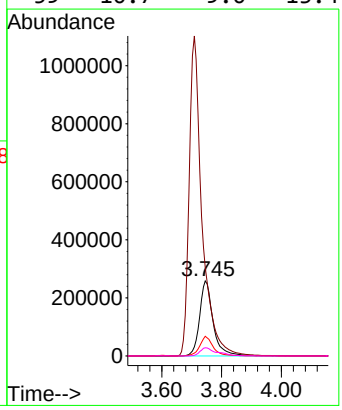
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

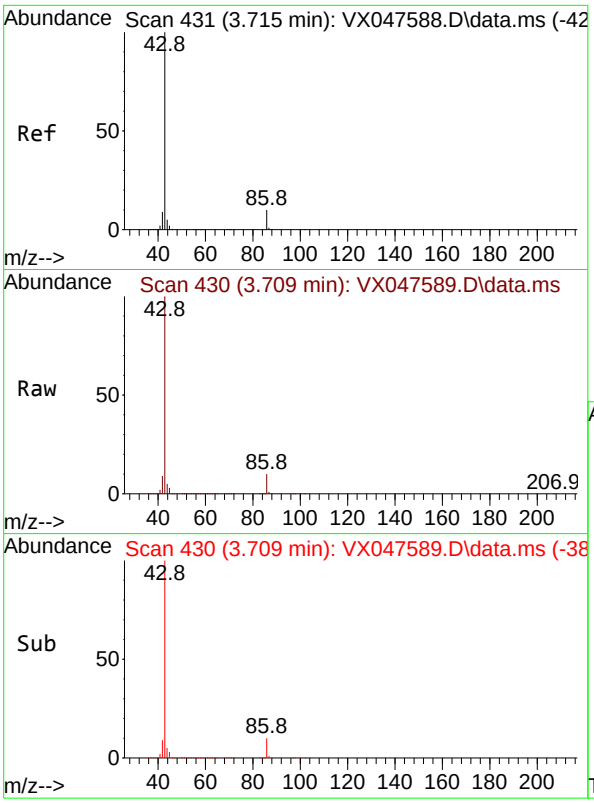


#22
Diisopropyl ether
Concen: 100.934 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 45 Resp: 811840

Ion	Ratio	Lower	Upper
45	100		
43	117.3	81.0	121.4
87	26.1	20.3	30.5
59	10.7	9.0	13.4

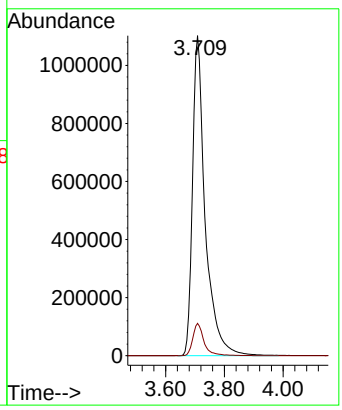




#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 331470

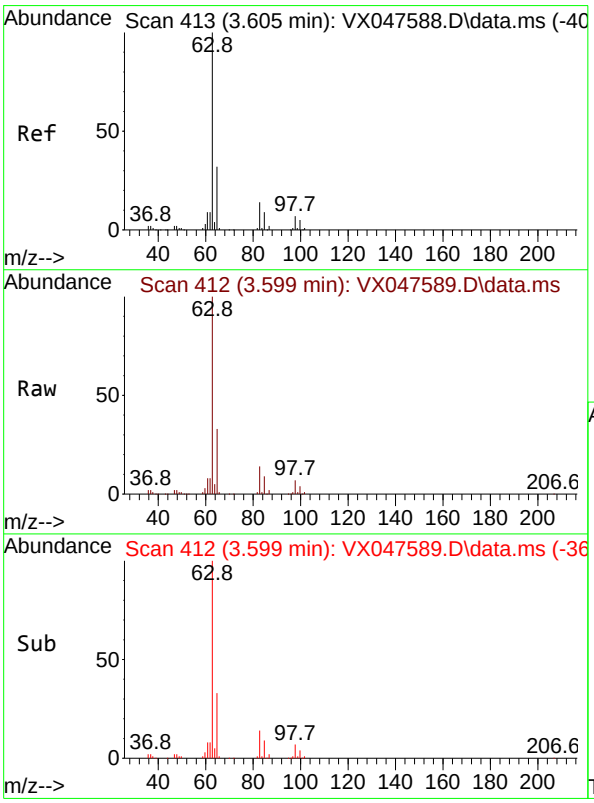
Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

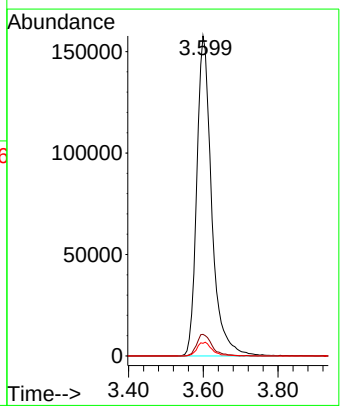
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

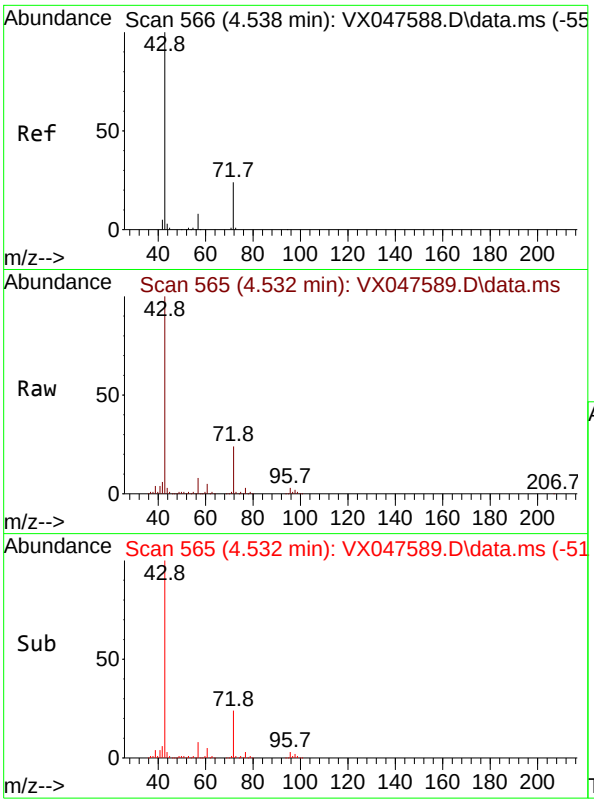


#24
1,1-Dichloroethane
Concen: 101.944 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 435815

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.0	2.3	6.9

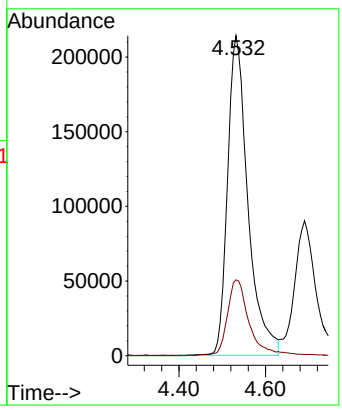




#25
2-Butanone
Concen: 479.558 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 70082

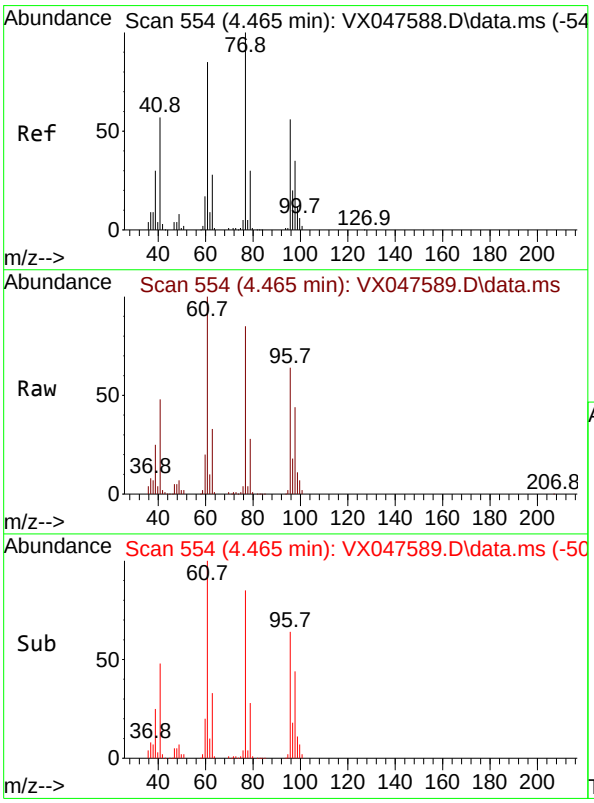
Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

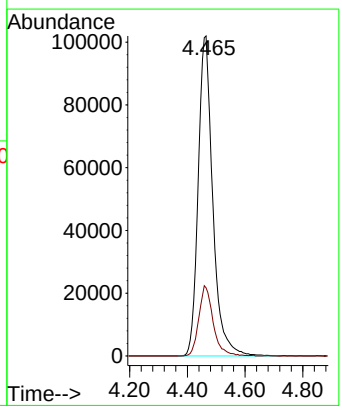
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

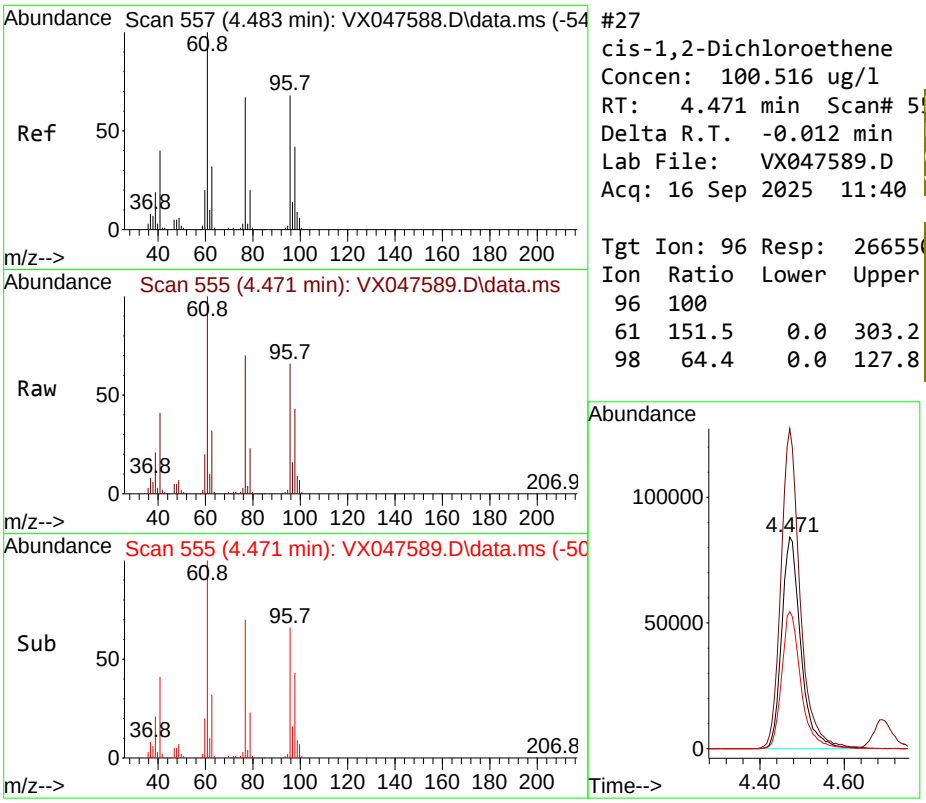


#26
2,2-Dichloropropane
Concen: 100.542 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 77 Resp: 357292

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.9	32.7





#27
cis-1,2-Dichloroethene
Concen: 100.516 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

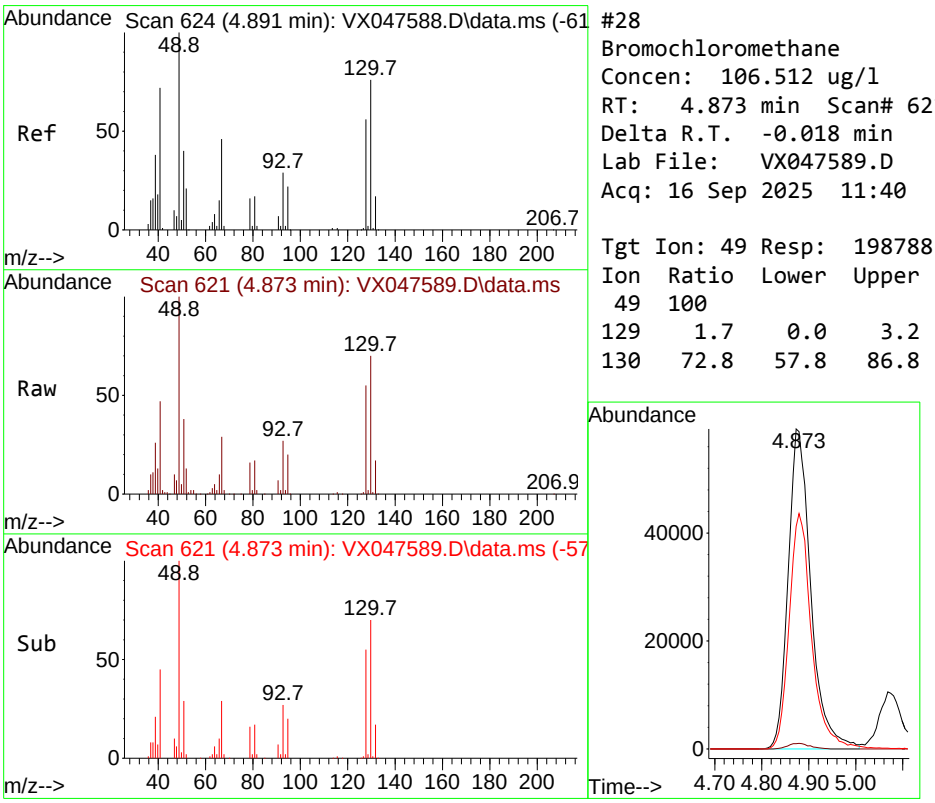
Tgt Ion: 96 Resp: 26655

Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	303.2
98	64.4	0.0	127.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

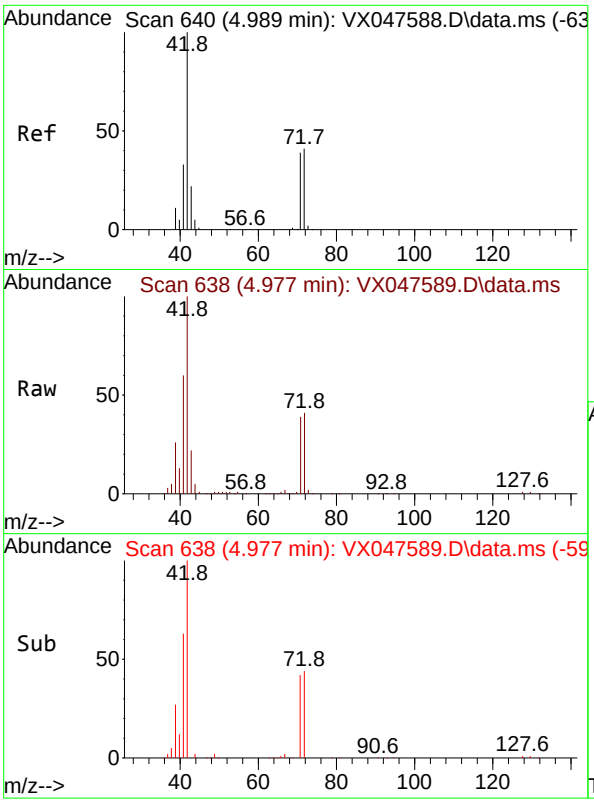
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#28
Bromochloromethane
Concen: 106.512 ug/l
RT: 4.873 min Scan# 621
Delta R.T. -0.018 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 49 Resp: 198788

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	72.8	57.8	86.8



#29
Tetrahydrofuran
Concen: 504.502 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

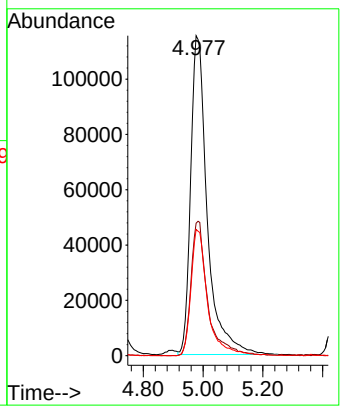
Tgt Ion: 42 Resp: 44353

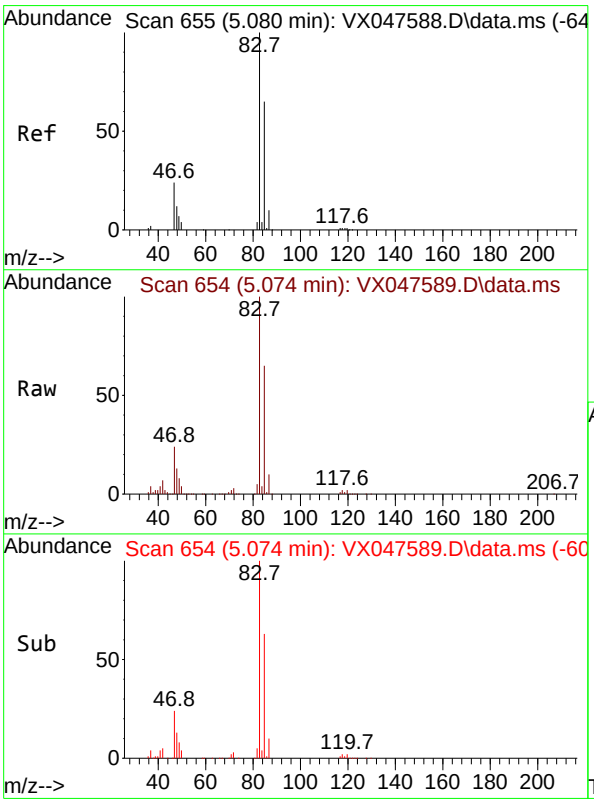
Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.2	51.2
71	39.5	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

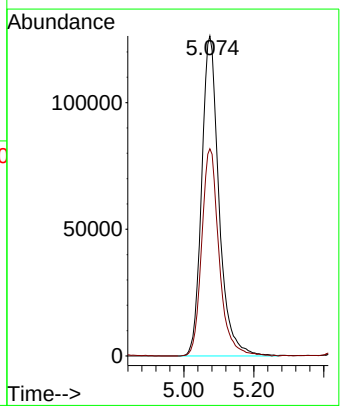


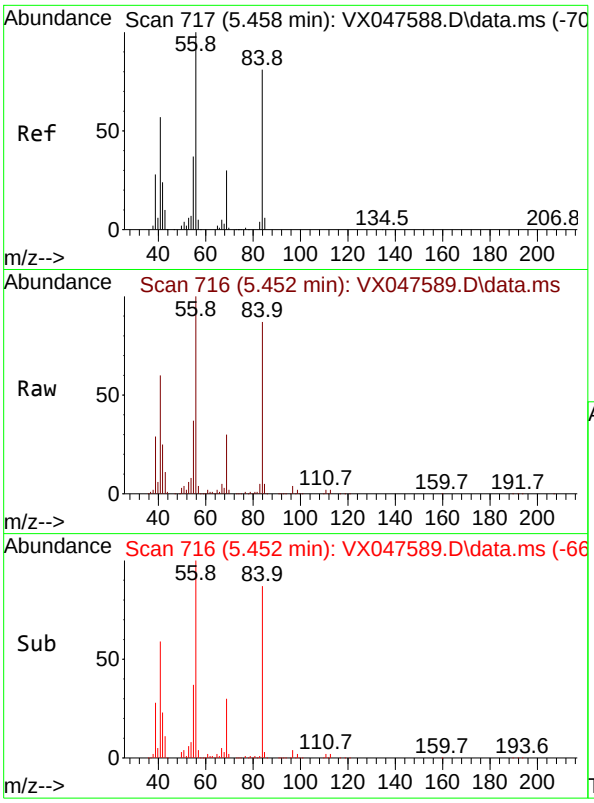


#30
Chloroform
Concen: 100.447 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 433937

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.6

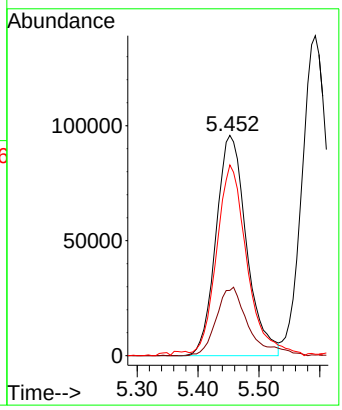




#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 56 Resp: 33299

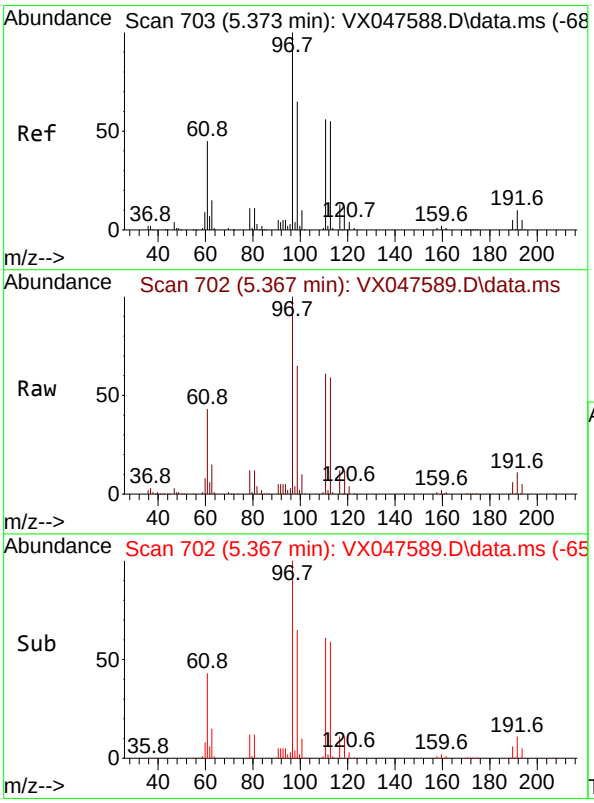
Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.8	35.8
84	84.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

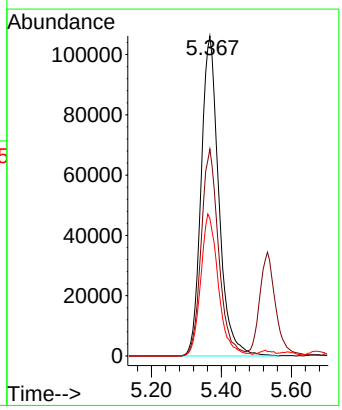
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

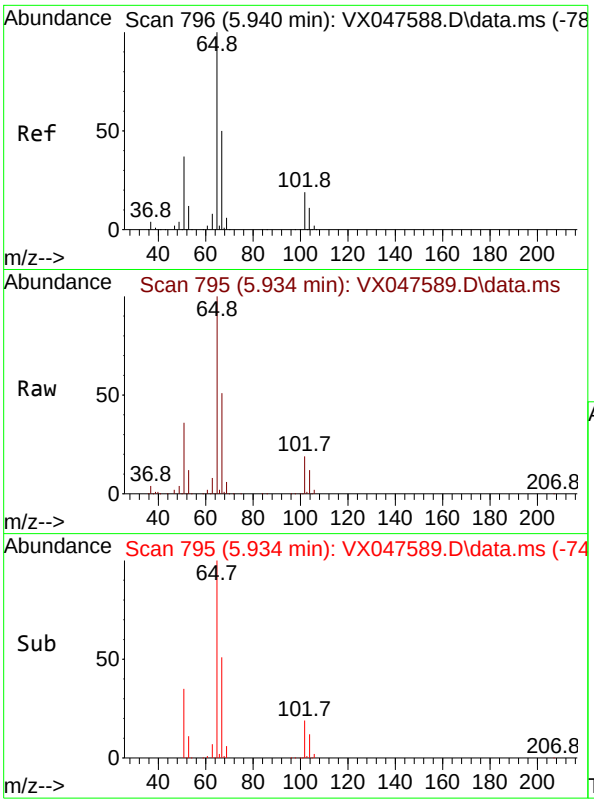


#32
1,1,1-Trichloroethane
Concen: 101.607 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 372323

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	44.4	35.8	53.8

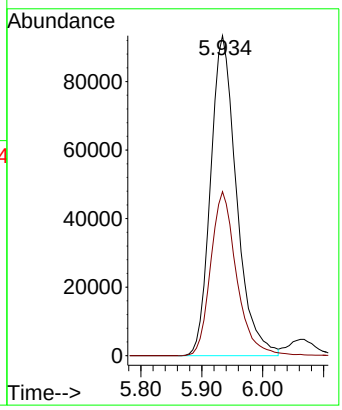




#33
1,2-Dichloroethane-d4
Concen: 102.341 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 65 Resp: 27575

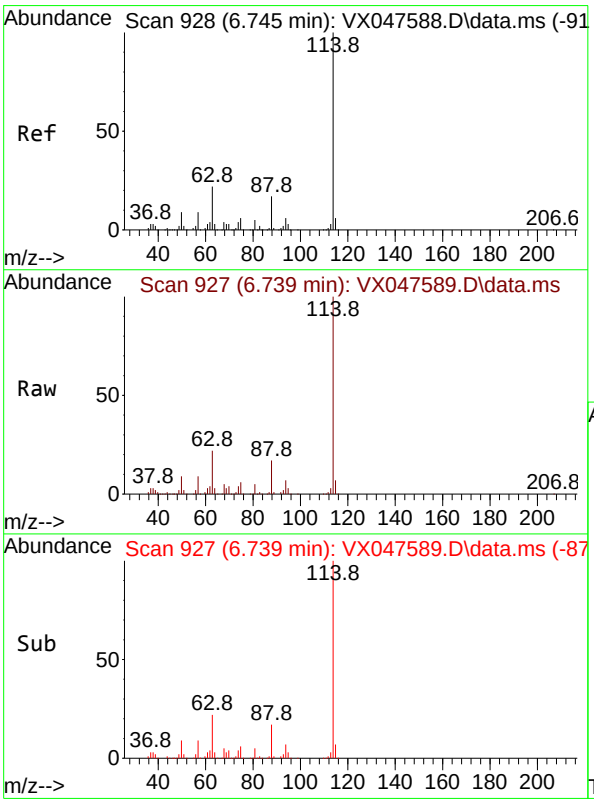
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

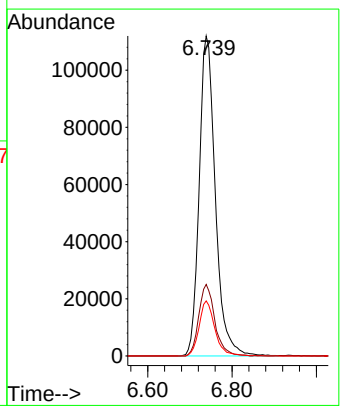
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

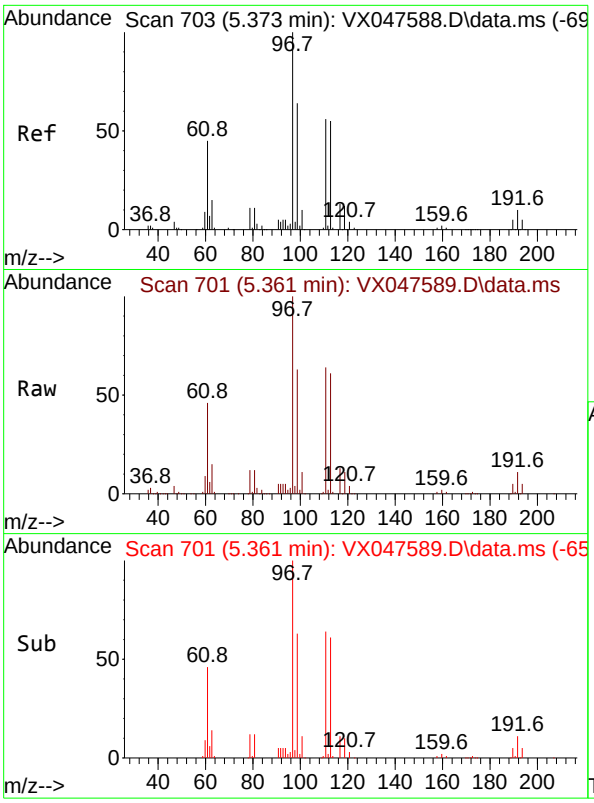


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:114 Resp: 298913

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	17.2	0.0	34.2

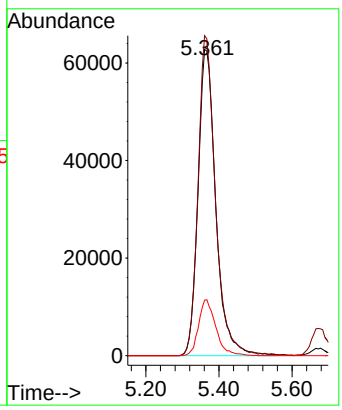




#35
Dibromofluoromethane
Concen: 105.962 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:113 Resp: 21241

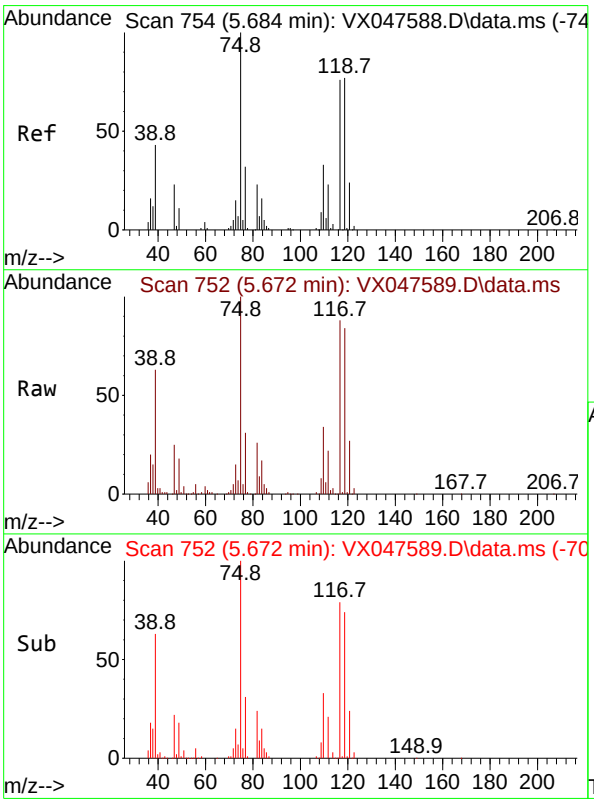
Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.9	121.3
192	17.7	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

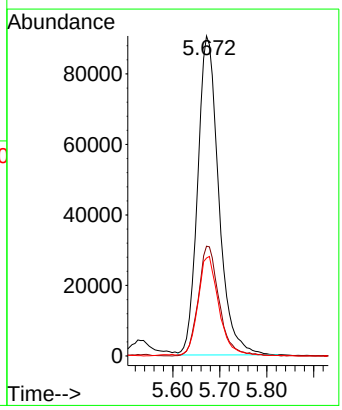
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

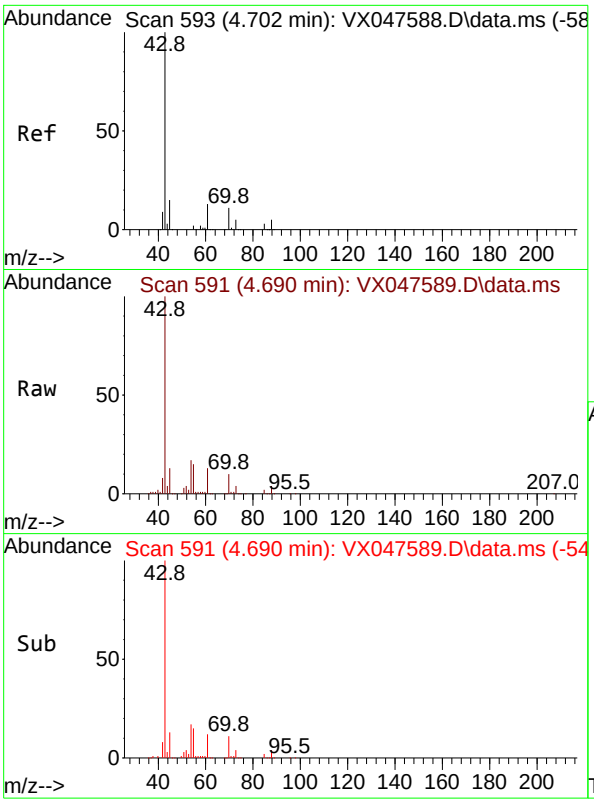


#36
1,1-Dichloropropene
Concen: 96.149 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 281650

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	31.3	24.3	36.5





#37
Ethyl Acetate
Concen: 101.641 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

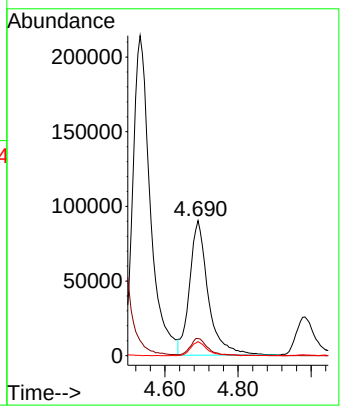
Tgt Ion: 43 Resp: 31879

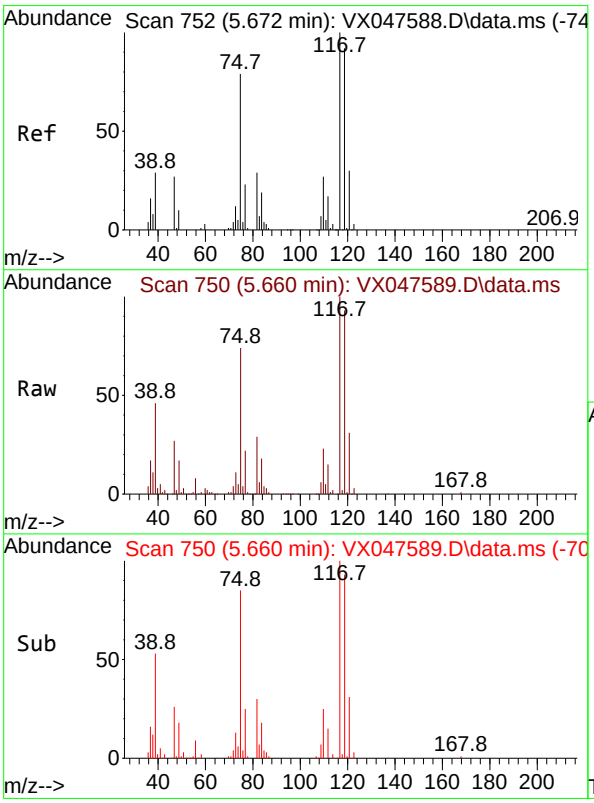
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

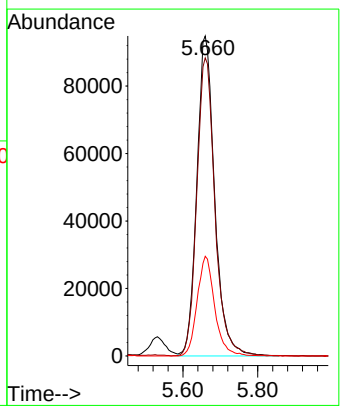


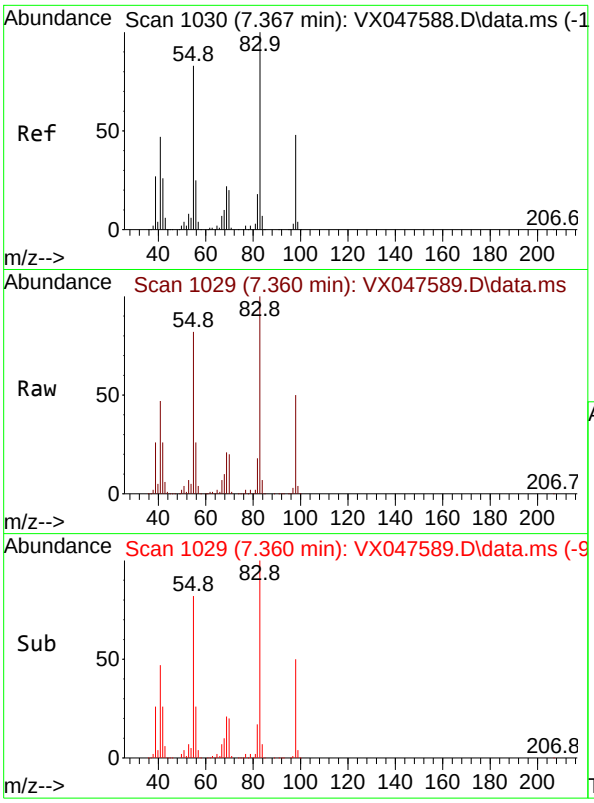


#38
Carbon Tetrachloride
Concen: 98.891 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 314745

Ion	Ratio	Lower	Upper
117	100		
119	93.0	73.4	110.2
121	31.2	23.8	35.6

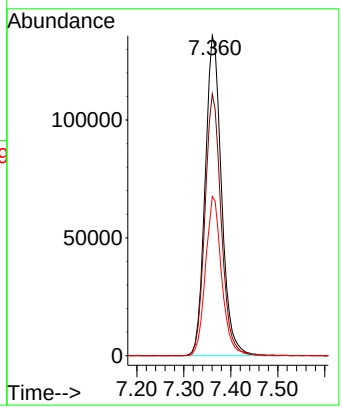




#39
Methylcyclohexane
Concen: 98.600 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 32785

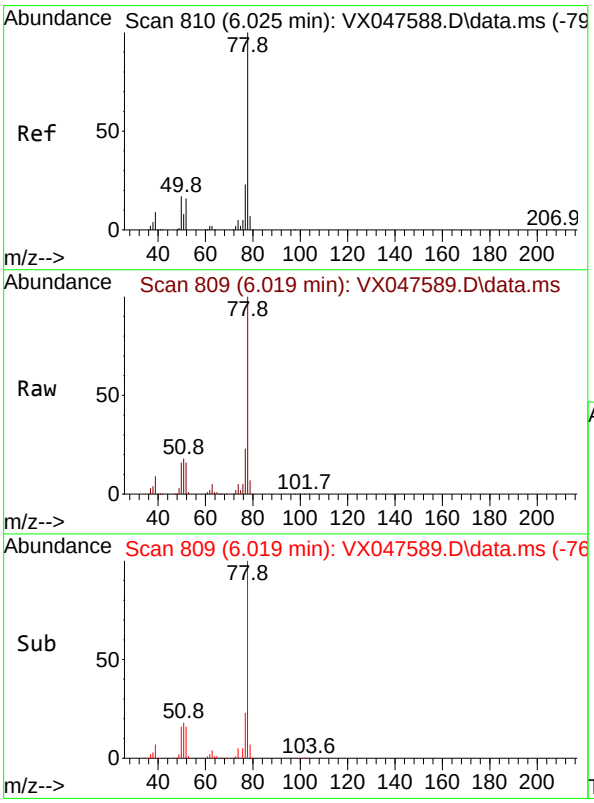
Ion	Ratio	Lower	Upper
83	100		
55	81.8	66.4	99.6
98	49.8	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

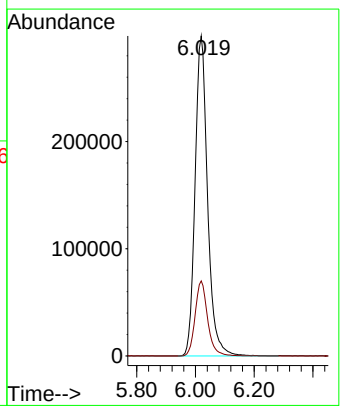
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

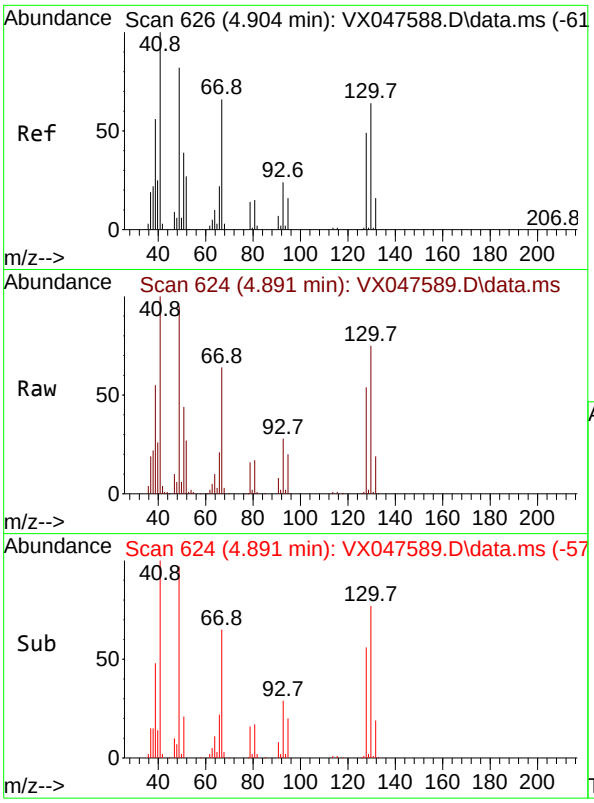


#40
Benzene
Concen: 99.009 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 78 Resp: 880885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

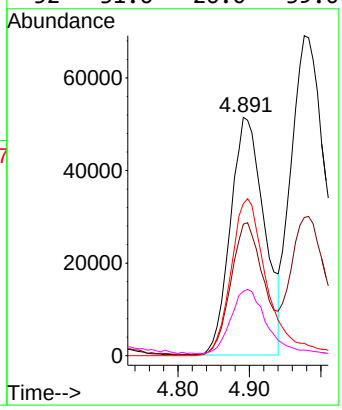




#41
Methacrylonitrile
Concen: 104.220 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 16875

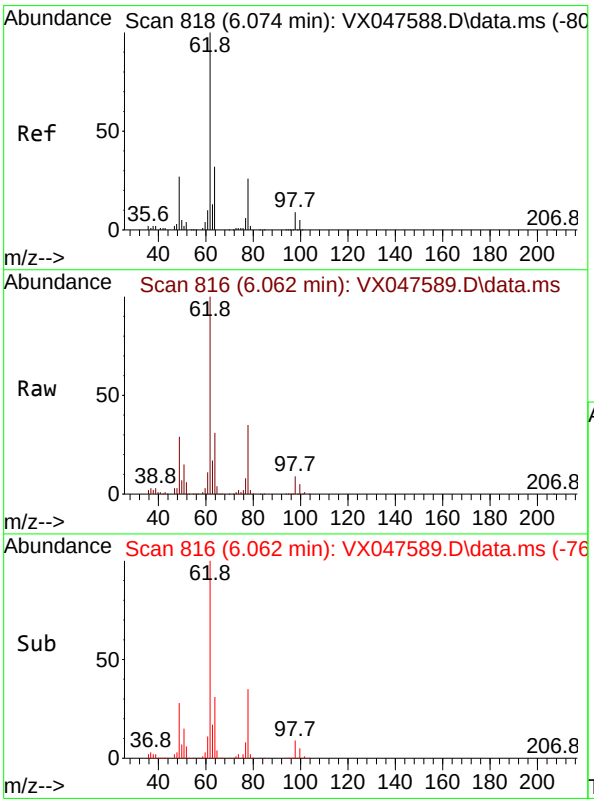
Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.3	64.9
67	72.1	58.6	87.8
52	31.6	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

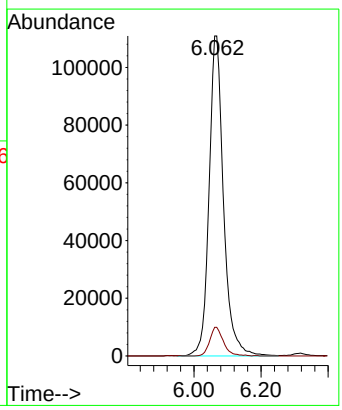
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

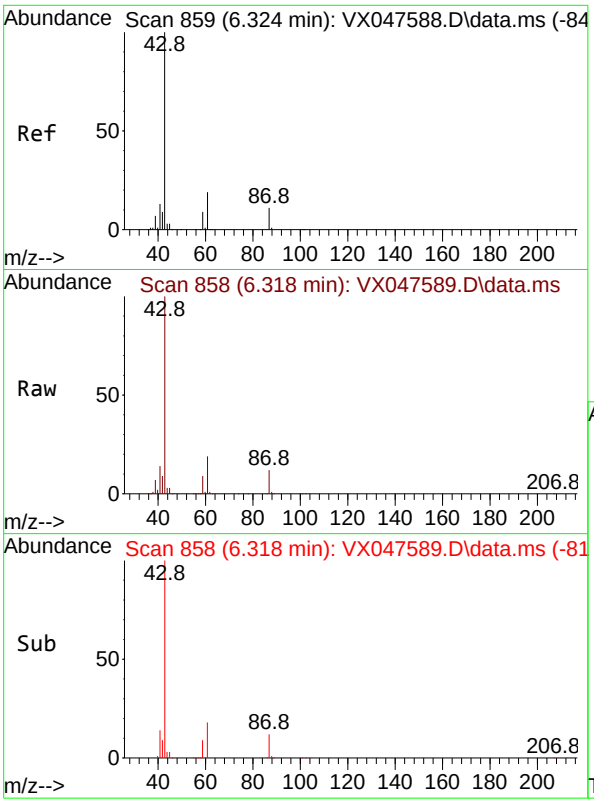


#42
1,2-Dichloroethane
Concen: 97.916 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 331465

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.0

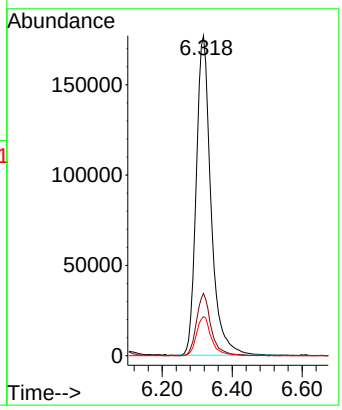




#43
Isopropyl Acetate
Concen: 100.482 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 51687

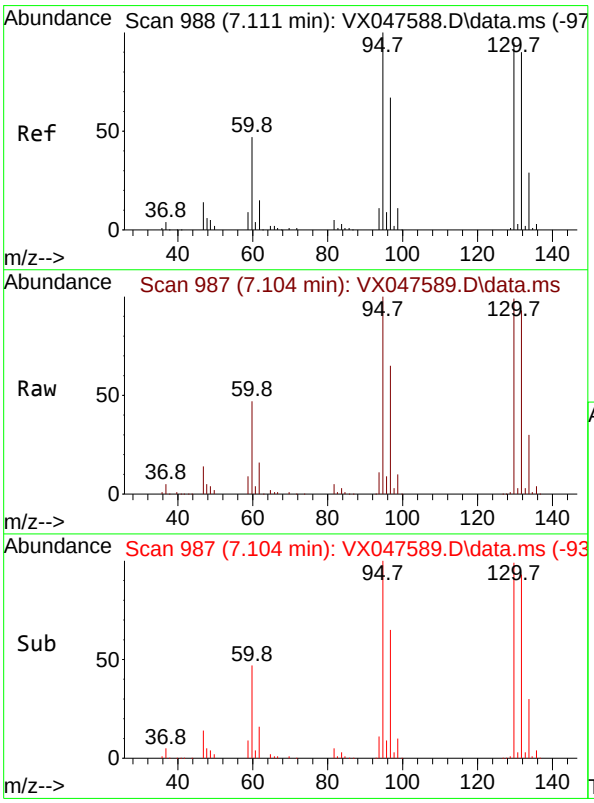
Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.3	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

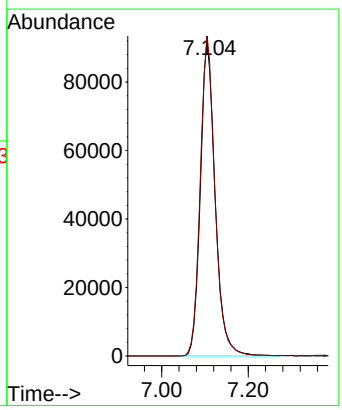
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

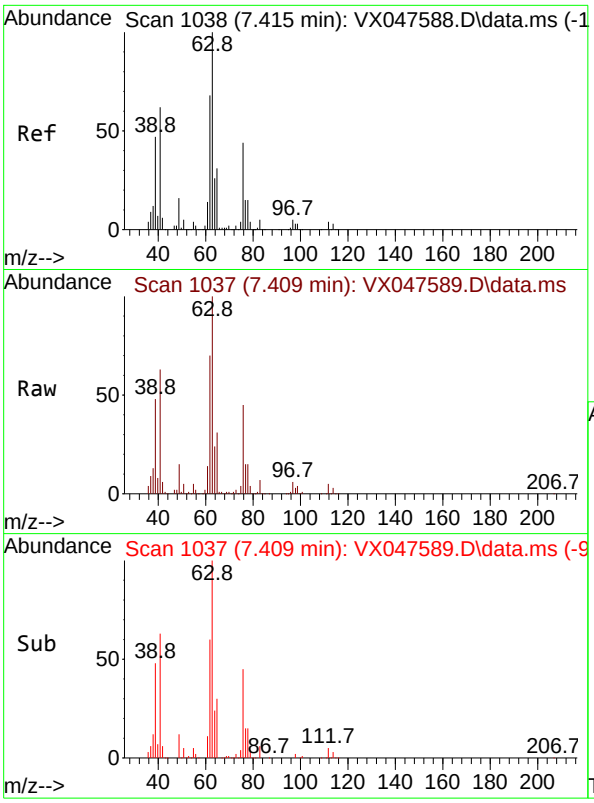


#44
Trichloroethene
Concen: 101.234 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:130 Resp: 217753

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	210.8

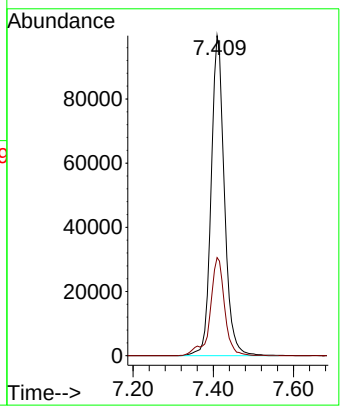




#45
1,2-Dichloropropane
Concen: 100.145 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 22815

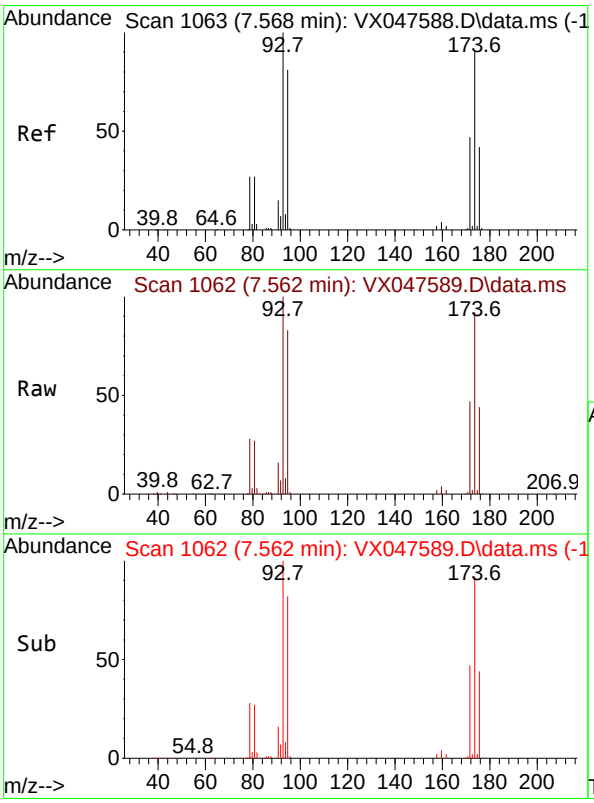
Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

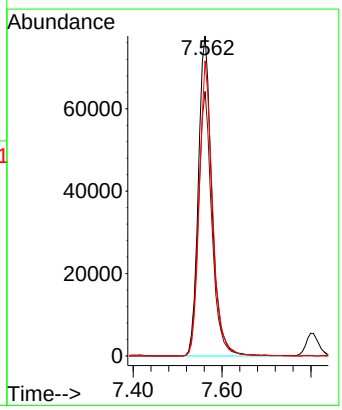
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

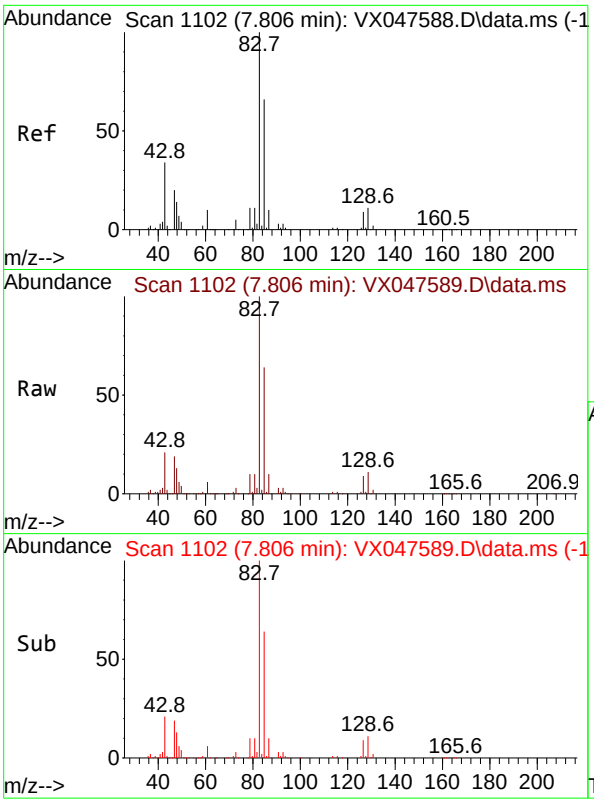


#46
Dibromomethane
Concen: 99.519 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 93 Resp: 164987

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.0	97.6
174	90.5	71.6	107.4

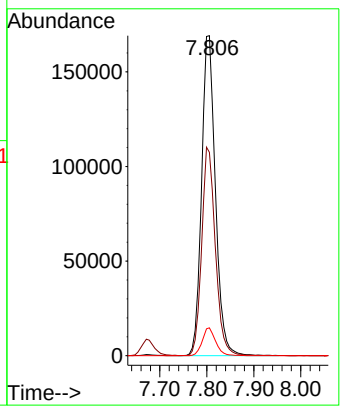




#47
Bromodichloromethane
Concen: 101.136 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 34599

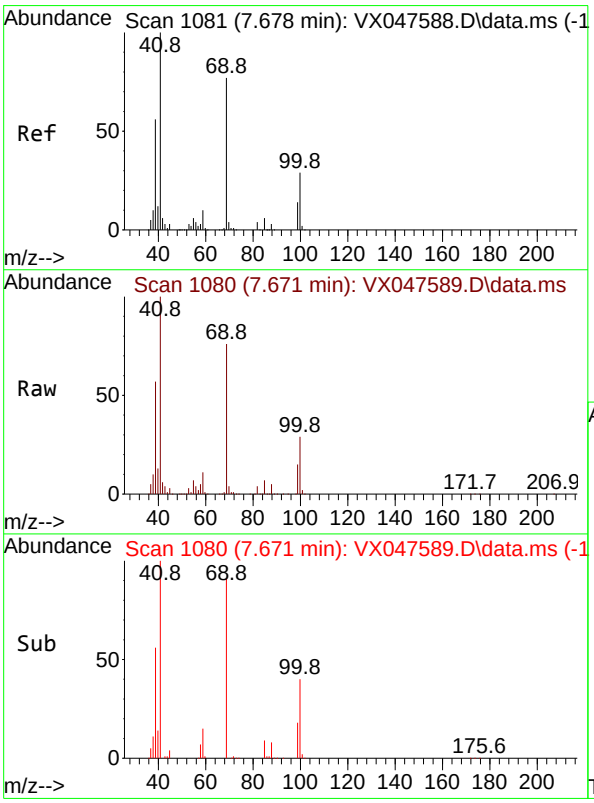
Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.7	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

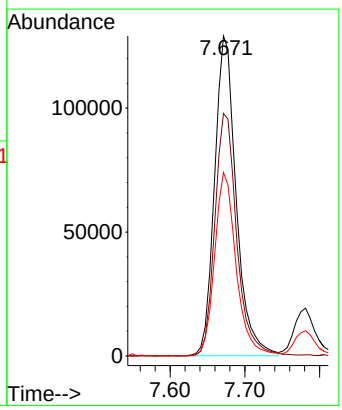
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

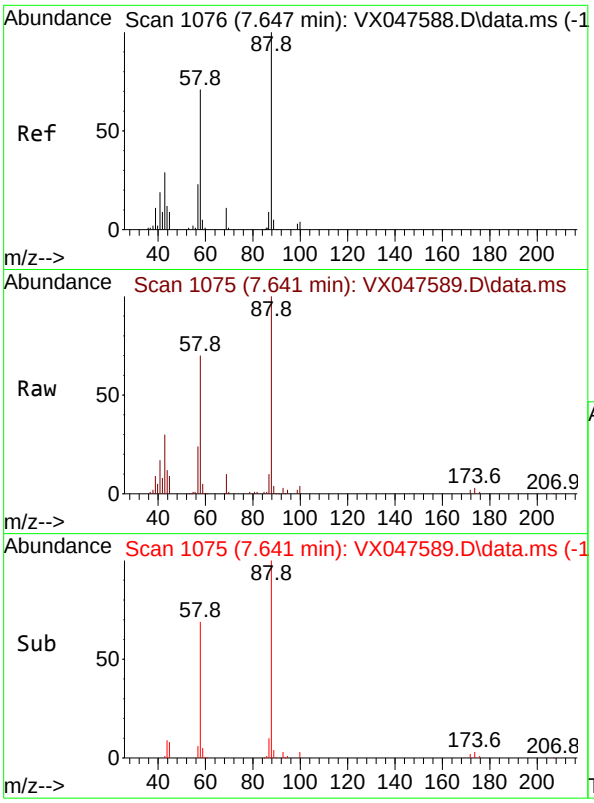


#48
Methyl methacrylate
Concen: 101.612 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 260358

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	57.0	45.8	68.6

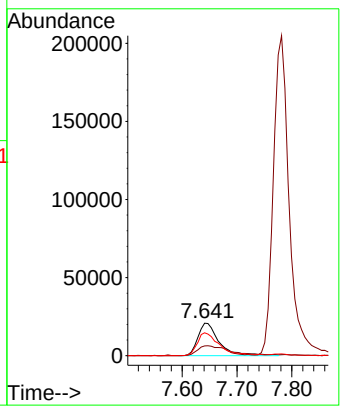




#49
1,4-Dioxane
Concen: 2190.315 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 88 Resp: 5671

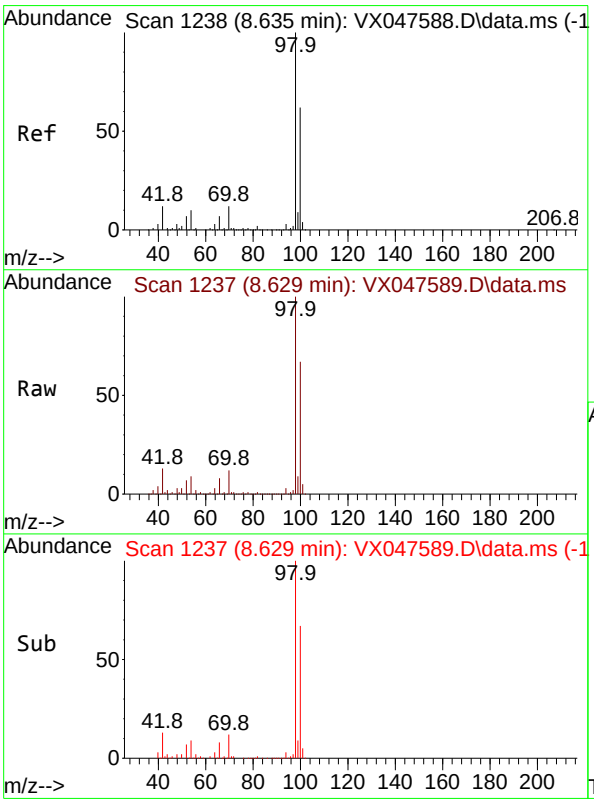
Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.2	45.2
58	74.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

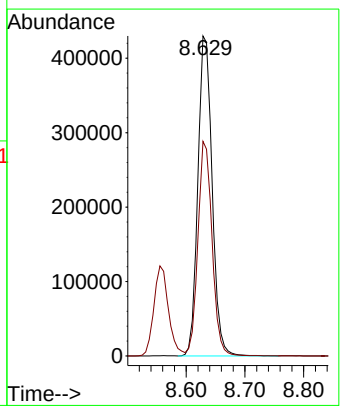
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

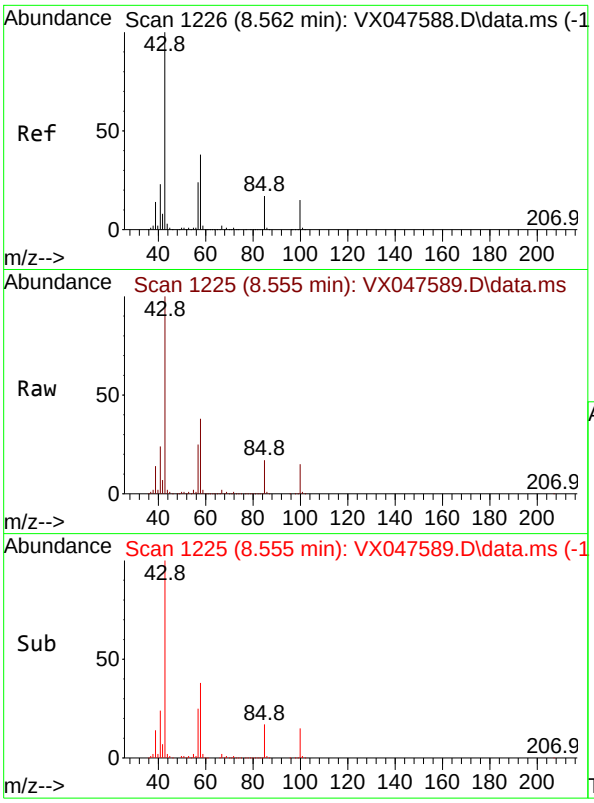


#50
Toluene-d8
Concen: 104.386 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 98 Resp: 724078

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

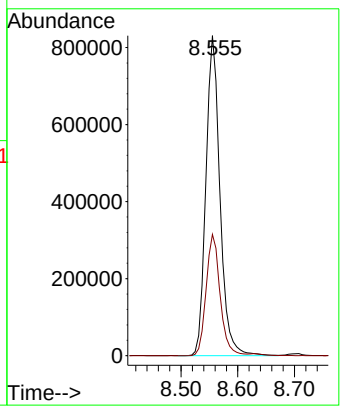




#51
4-Methyl-2-Pentanone
Concen: 501.834 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 143125

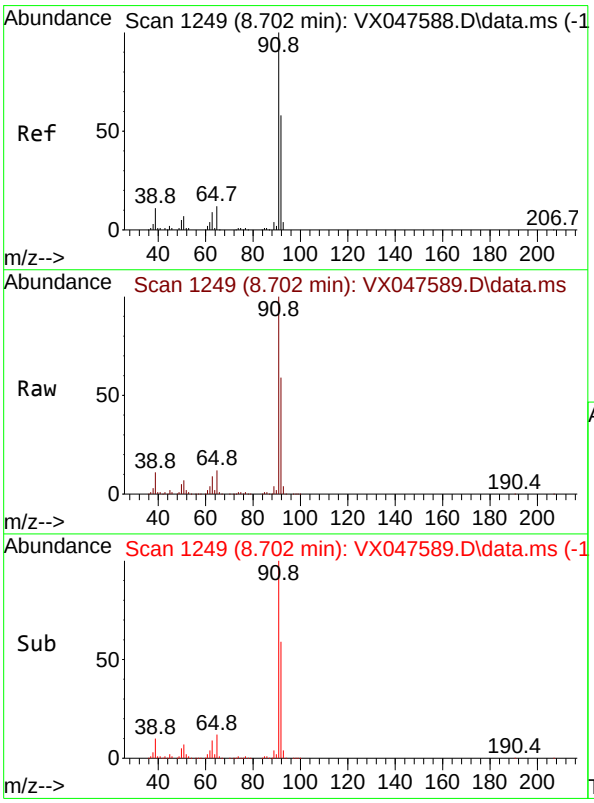
Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

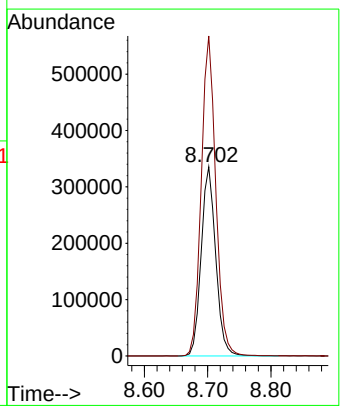
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

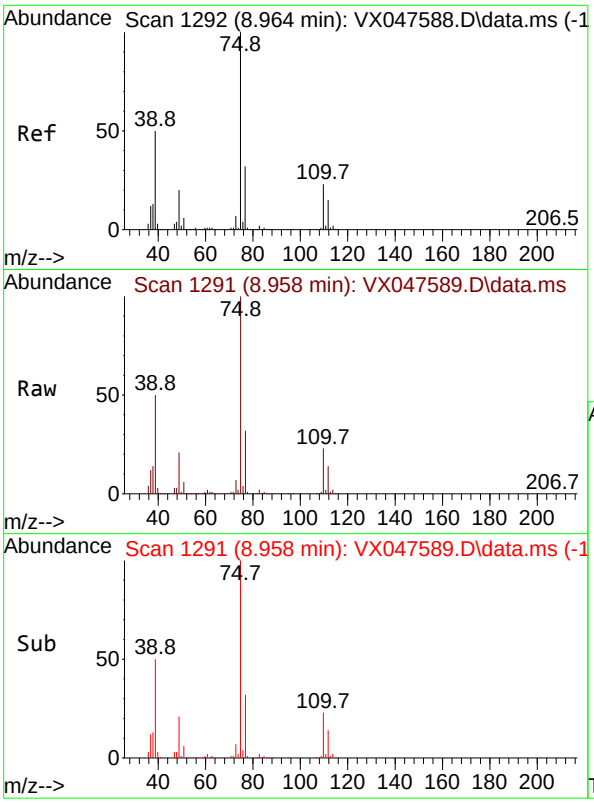


#52
Toluene
Concen: 97.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 92 Resp: 536148

Ion	Ratio	Lower	Upper
92	100		
91	169.3	137.1	205.7

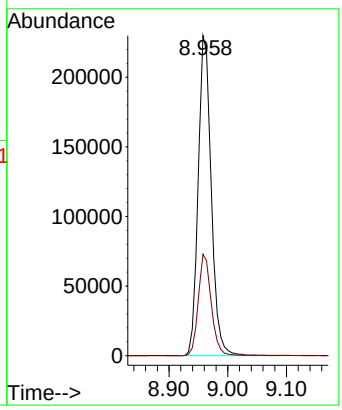




#53
t-1,3-Dichloropropene
Concen: 101.986 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 35588

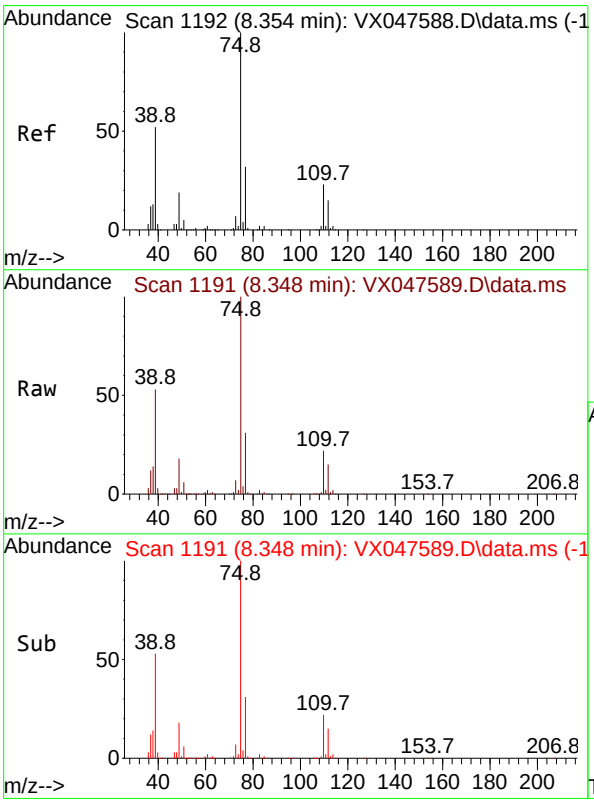
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

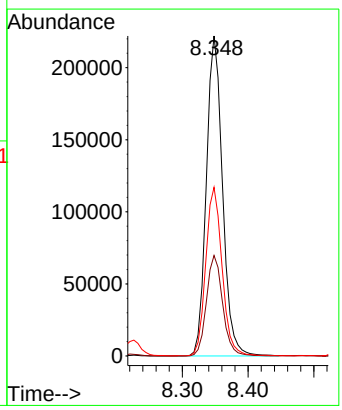
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

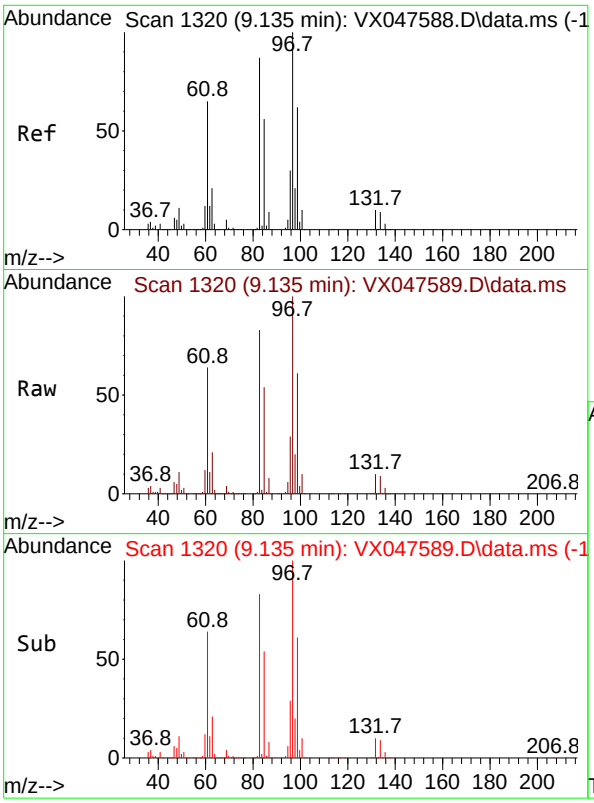


#54
cis-1,3-Dichloropropene
Concen: 102.038 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 380577

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	52.3	41.4	62.2

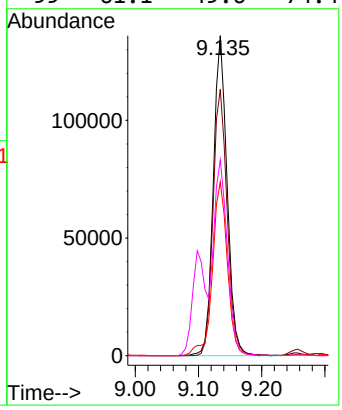




#55
1,1,2-Trichloroethane
Concen: 97.434 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 20593

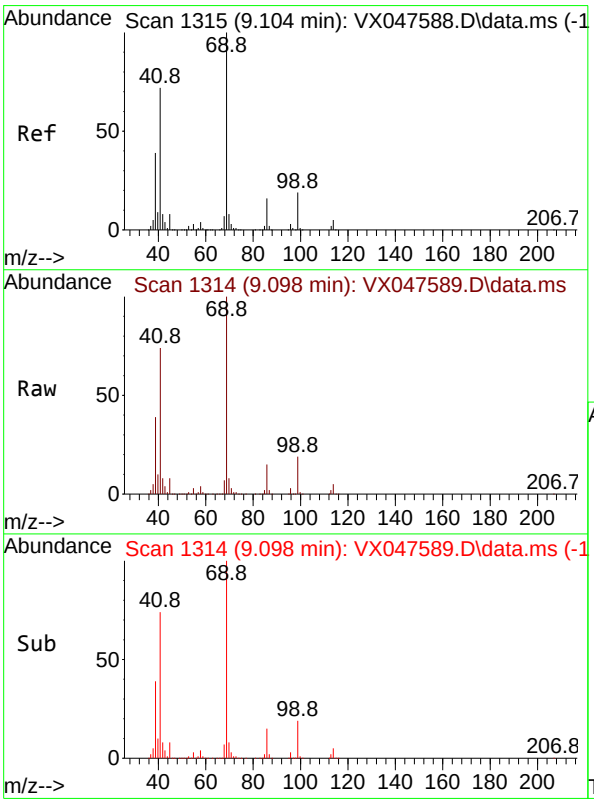
Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.6	104.4
85	54.3	45.0	67.6
99	61.1	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

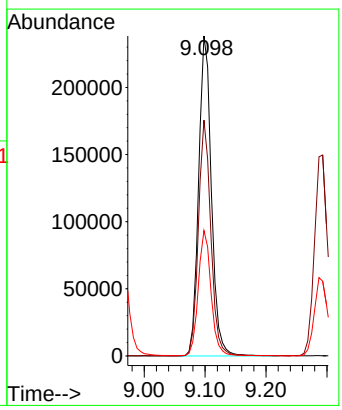
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

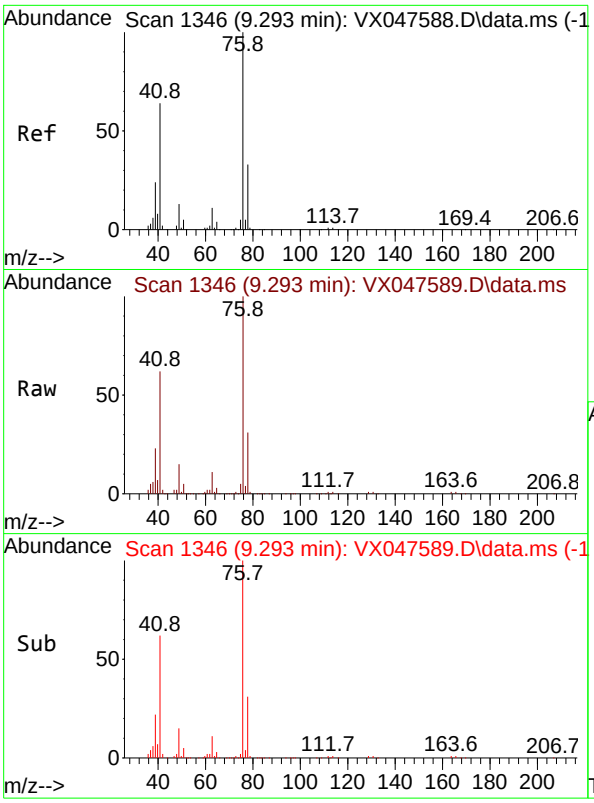


#56
Ethyl methacrylate
Concen: 104.435 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 69 Resp: 346659

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3

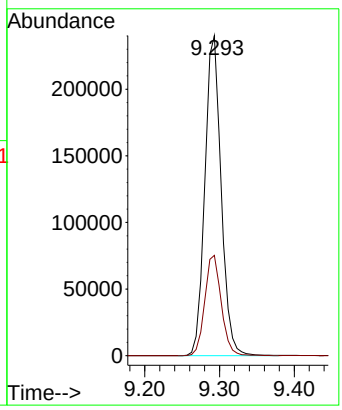




#57
1,3-Dichloropropane
Concen: 99.935 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 76 Resp: 36284

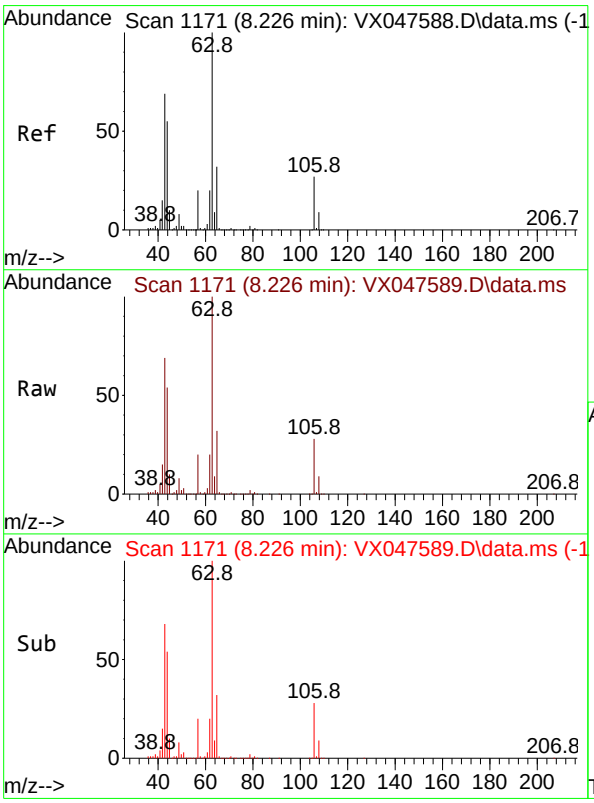
Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

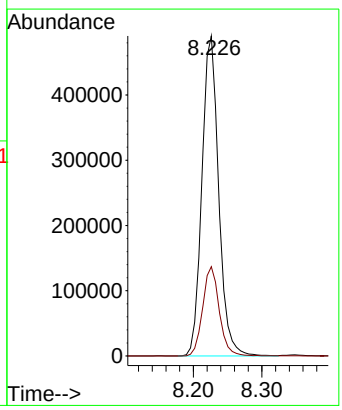
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

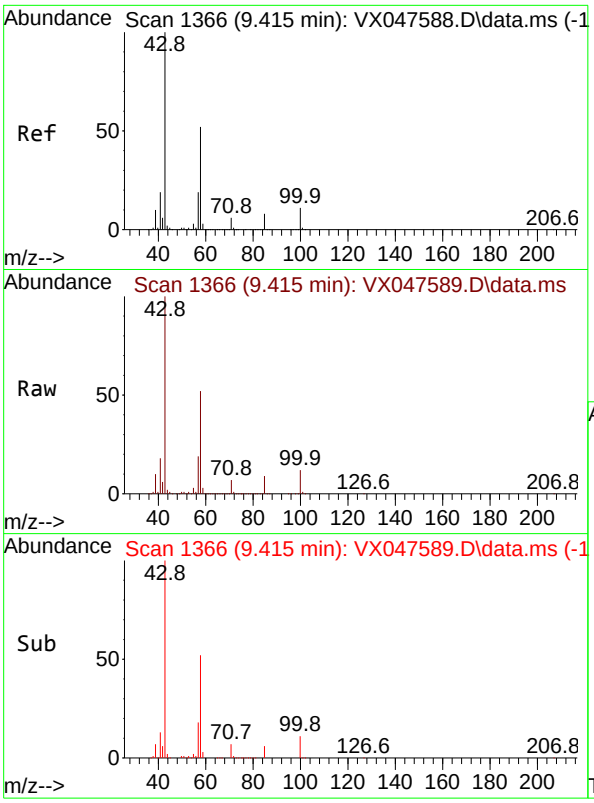


#58
2-Chloroethyl Vinyl ether
Concen: 499.814 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 836362

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

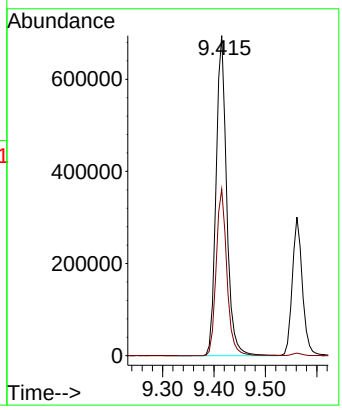




#59
2-Hexanone
Concen: 486.380 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 99627

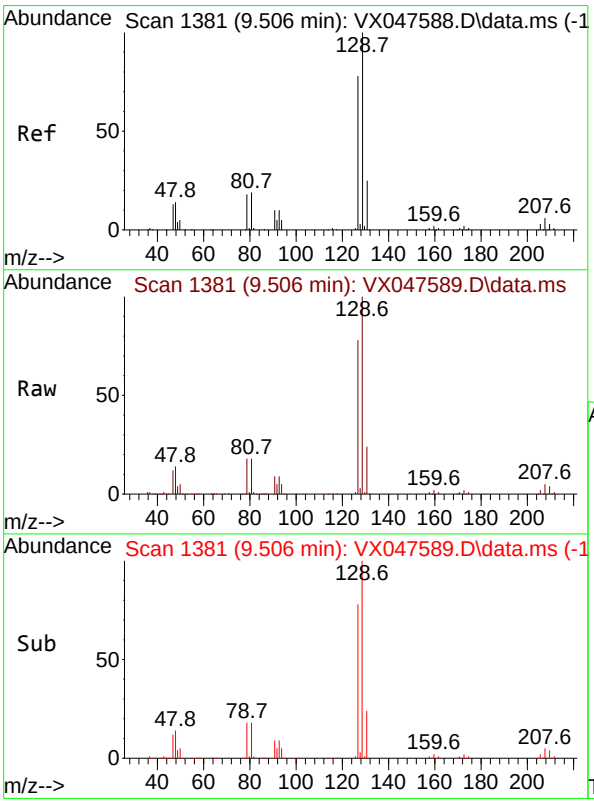
Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

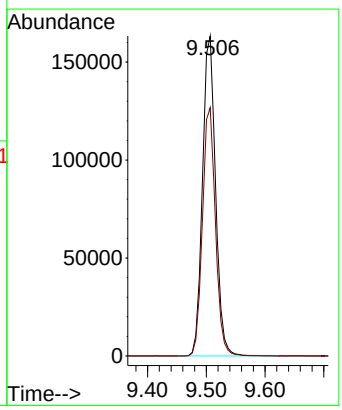
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

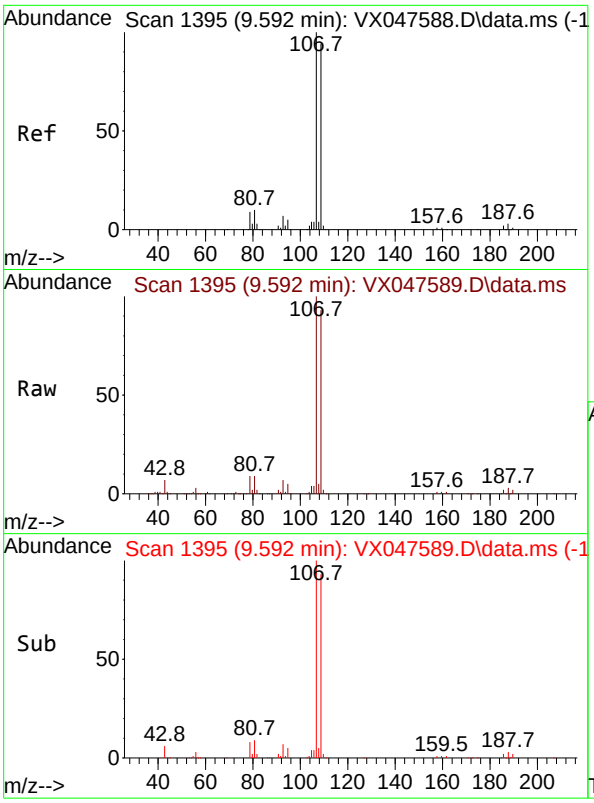


#60
Dibromochloromethane
Concen: 103.226 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:129 Resp: 251394

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.4	115.2

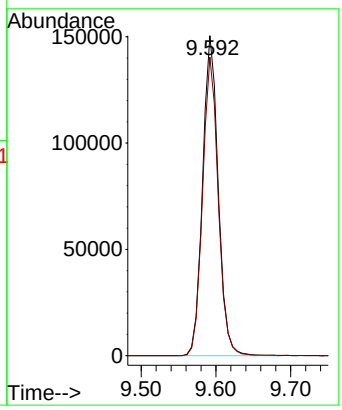




#61
1,2-Dibromoethane
Concen: 101.147 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:107 Resp: 21775

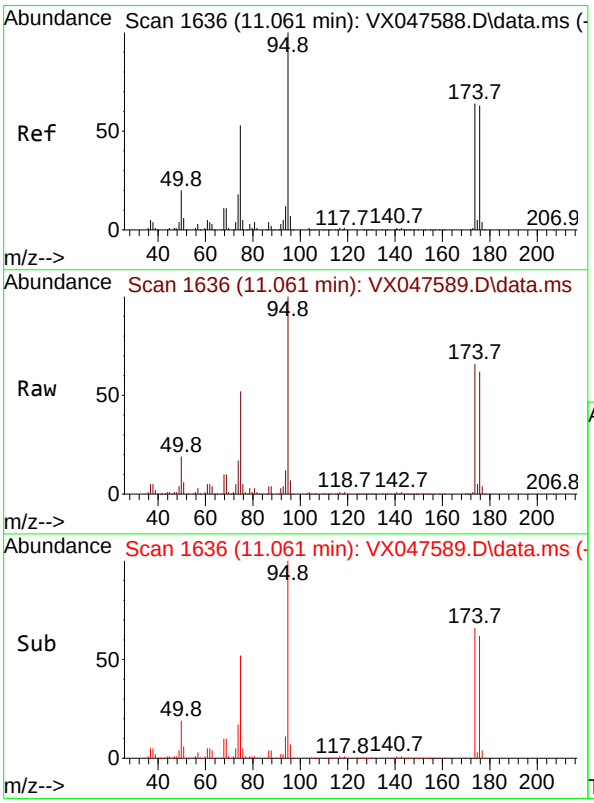
Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

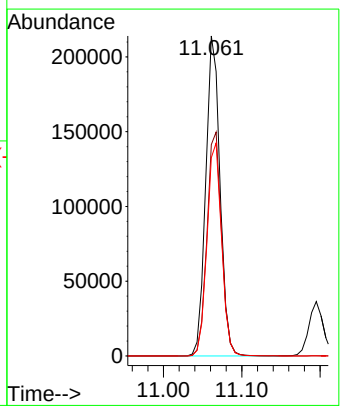
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

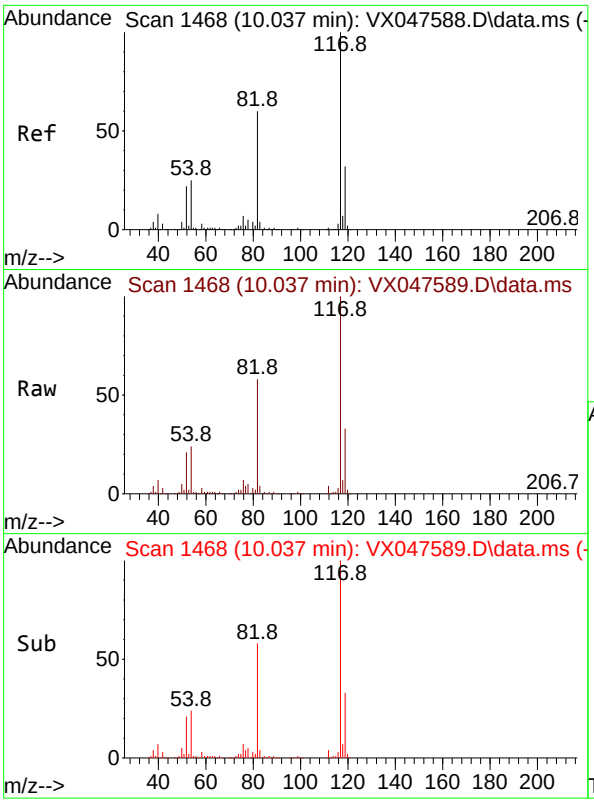


#62
4-Bromofluorobenzene
Concen: 102.672 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 95 Resp: 270289

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.0	0.0	138.4

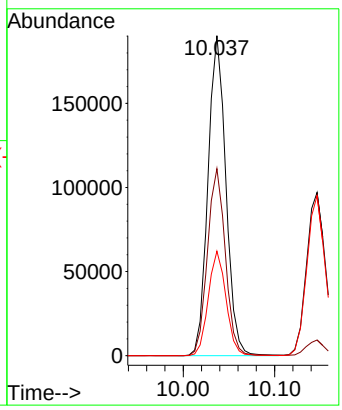




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 25839

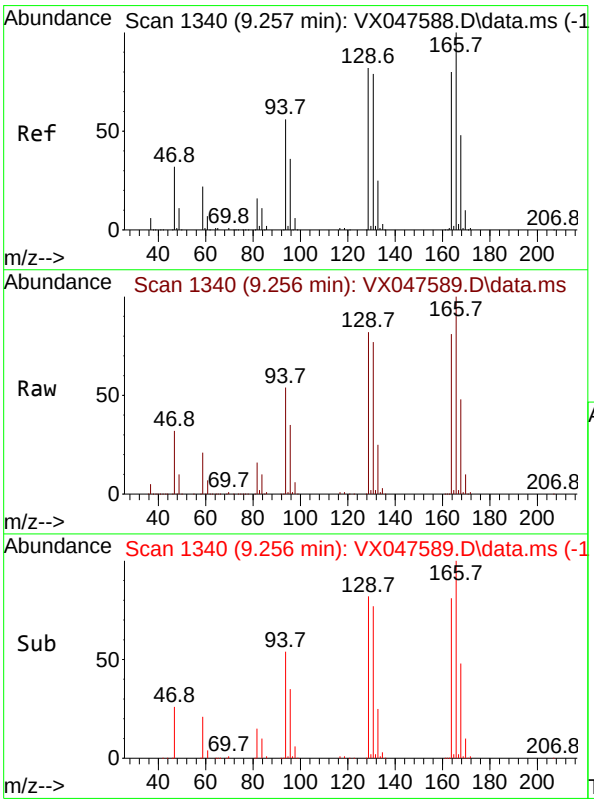
Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.7	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

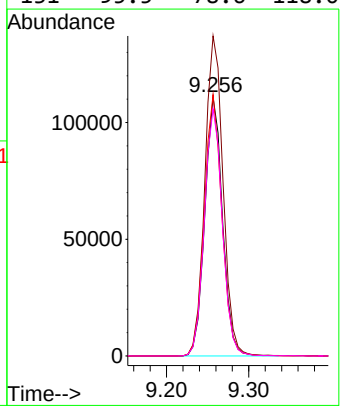
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

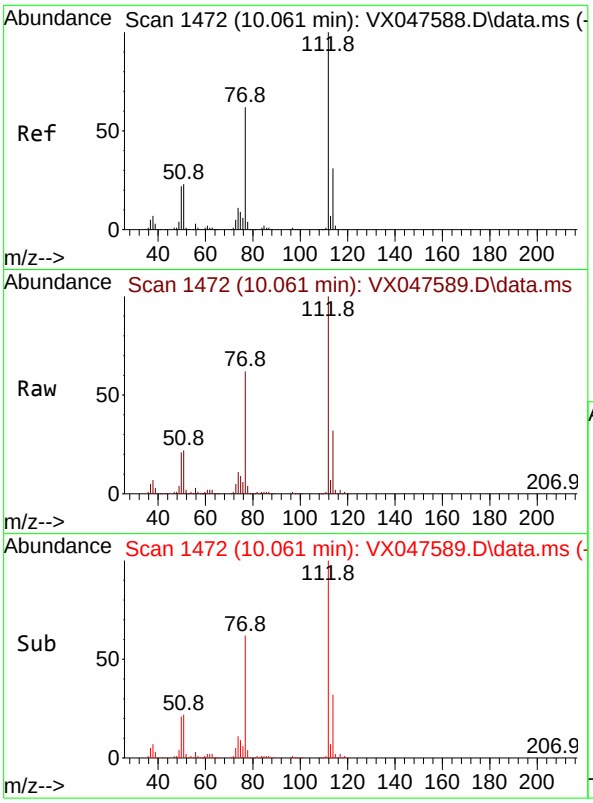


#64
Tetrachloroethene
Concen: 98.284 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:164 Resp: 165559

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.2	150.2
129	100.9	81.8	122.6
131	95.5	78.6	118.0

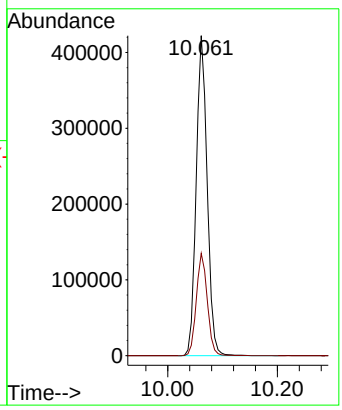




#65
Chlorobenzene
Concen: 100.253 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:112 Resp: 58851

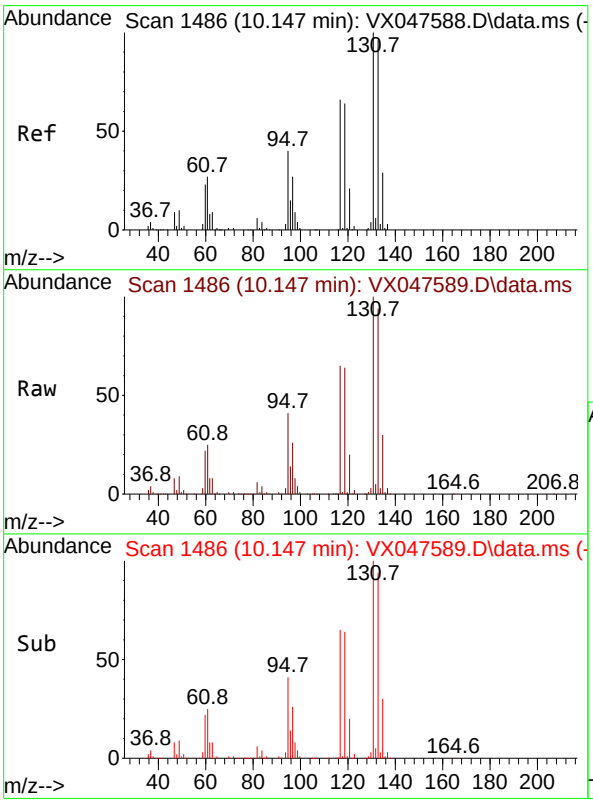
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

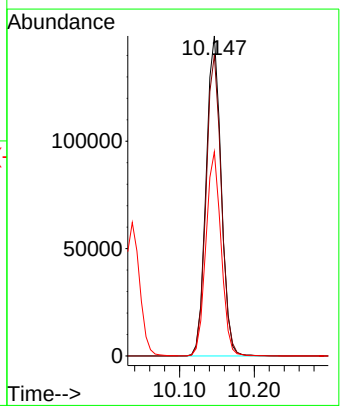
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

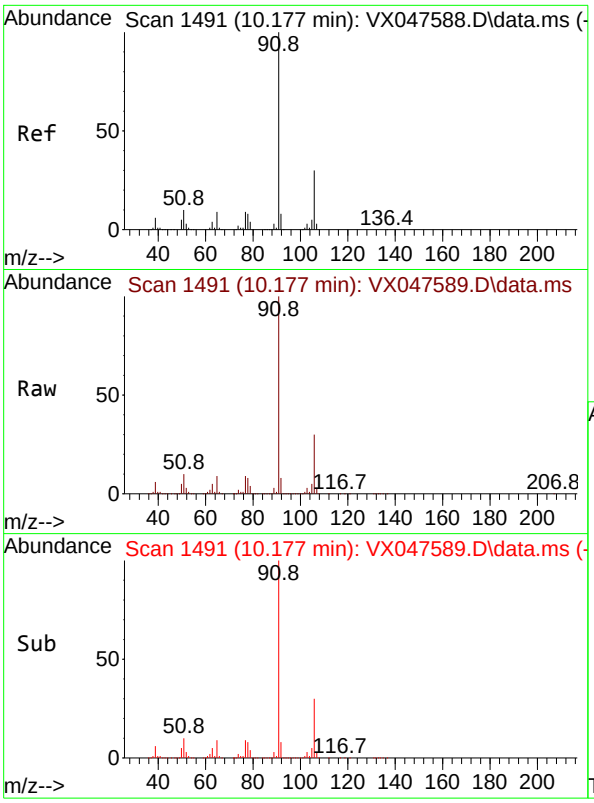


#66
1,1,1,2-Tetrachloroethane
Concen: 102.988 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:131 Resp: 208621

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	64.2	32.0	96.0

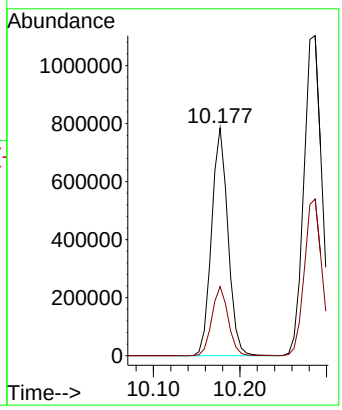




#67
Ethyl Benzene
Concen: 101.823 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 103134

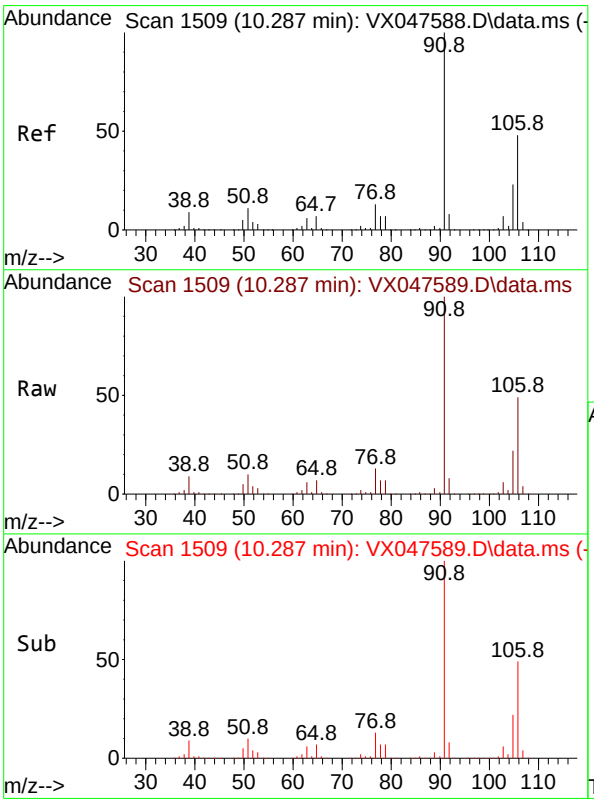
Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

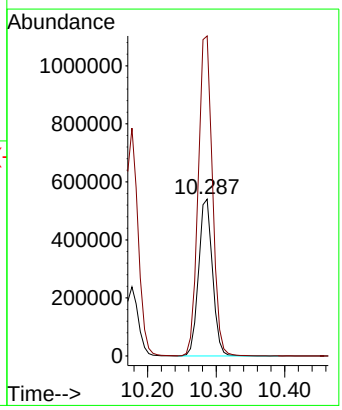
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

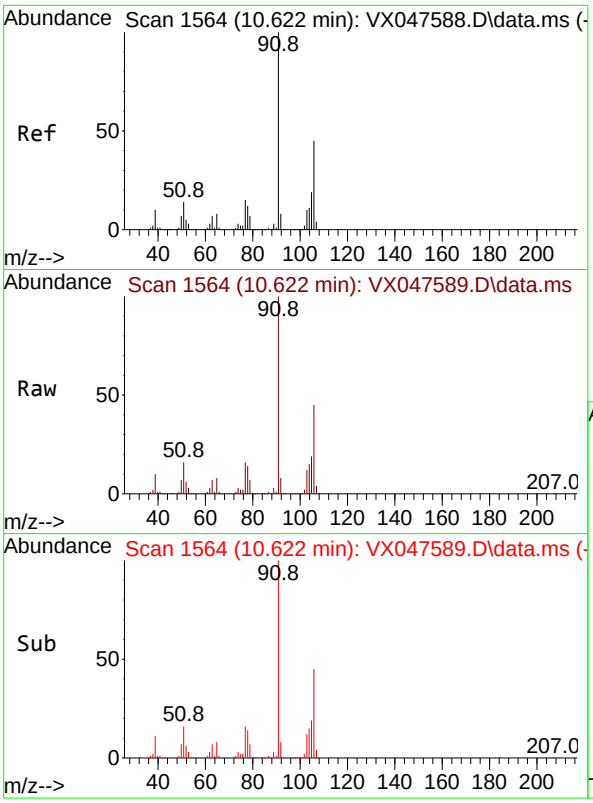


#68
m/p-Xylenes
Concen: 202.624 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:106 Resp: 763898

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8





#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

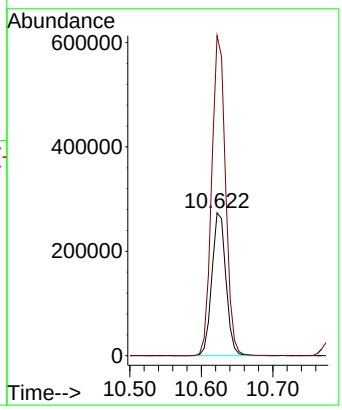
Tgt Ion:106 Resp: 37262

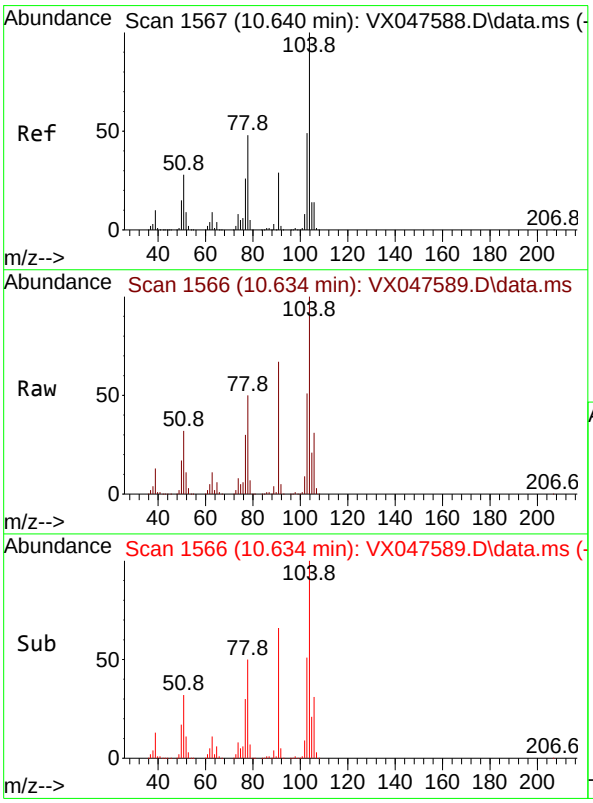
Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.1	333.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

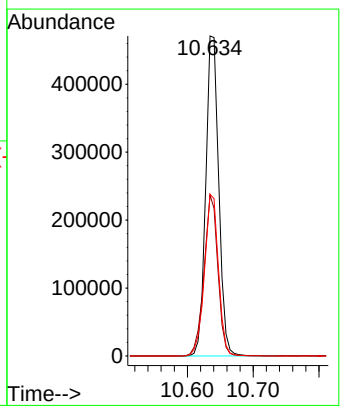


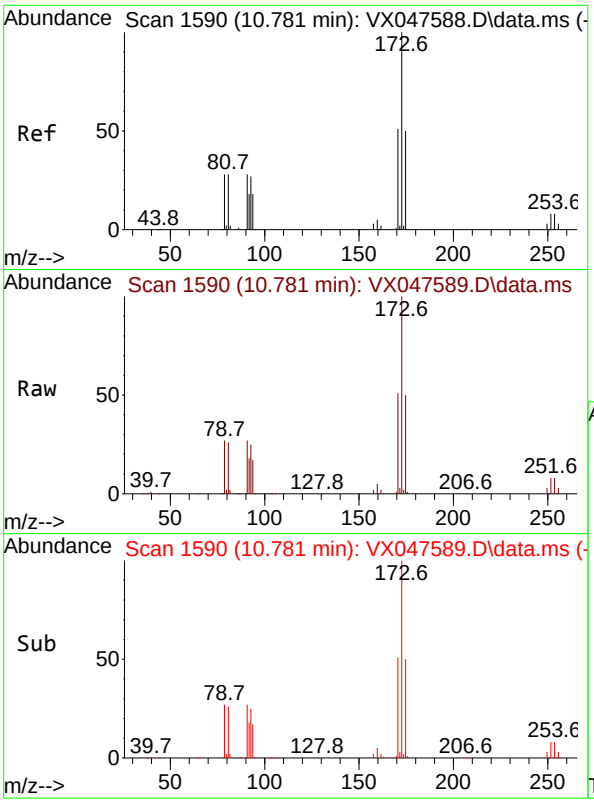


#70
Styrene
Concen: 101.710 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:104 Resp: 649863

Ion	Ratio	Lower	Upper
104	100		
78	53.5	43.1	64.7
103	54.1	43.1	64.7

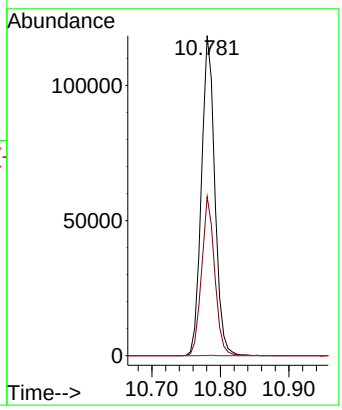




#71
Bromoform
Concen: 106.566 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:173 Resp: 16118

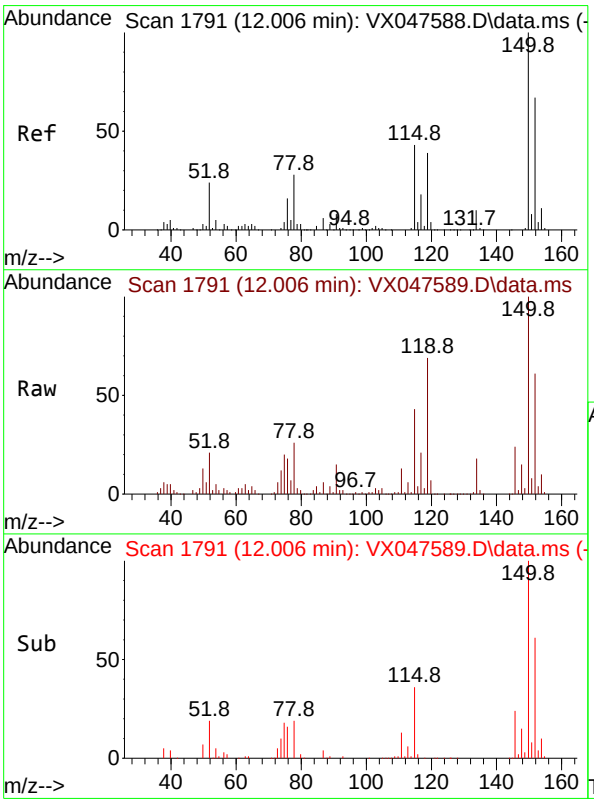
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

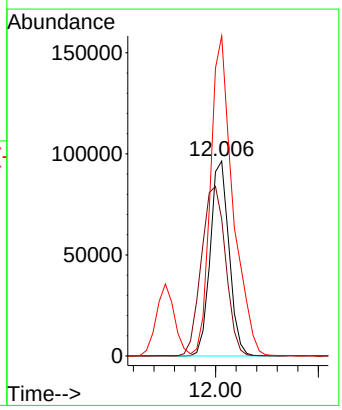
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

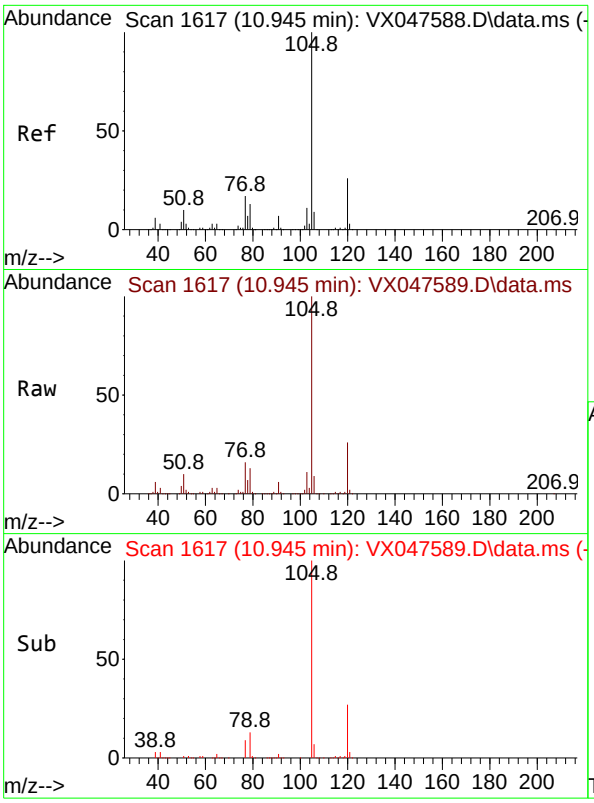


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:152 Resp: 122218

Ion	Ratio	Lower	Upper
152	100		
115	112.6	44.9	134.5
150	195.0	0.0	352.0

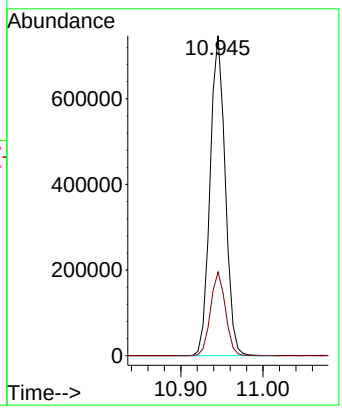




#73
Isopropylbenzene
Concen: 102.768 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 95490

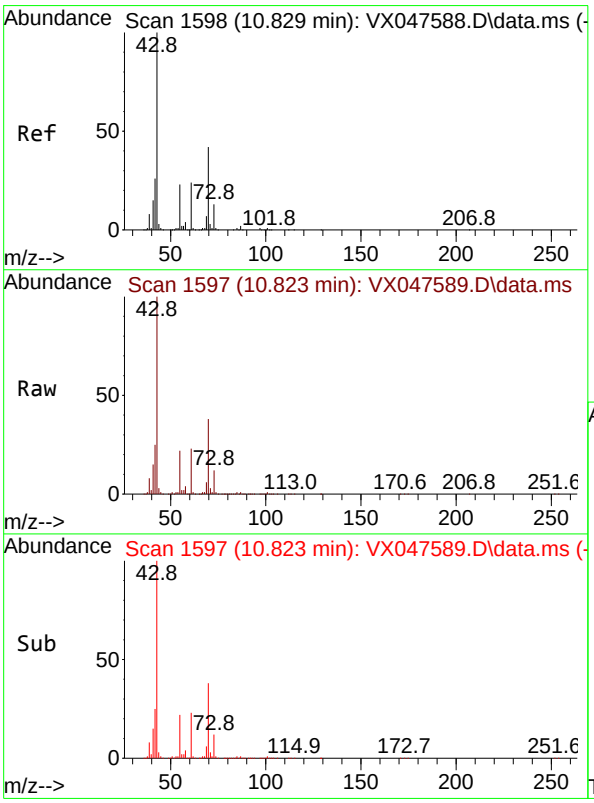
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

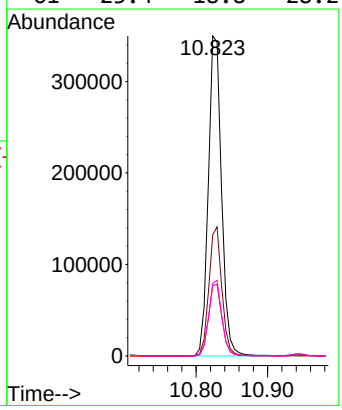
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

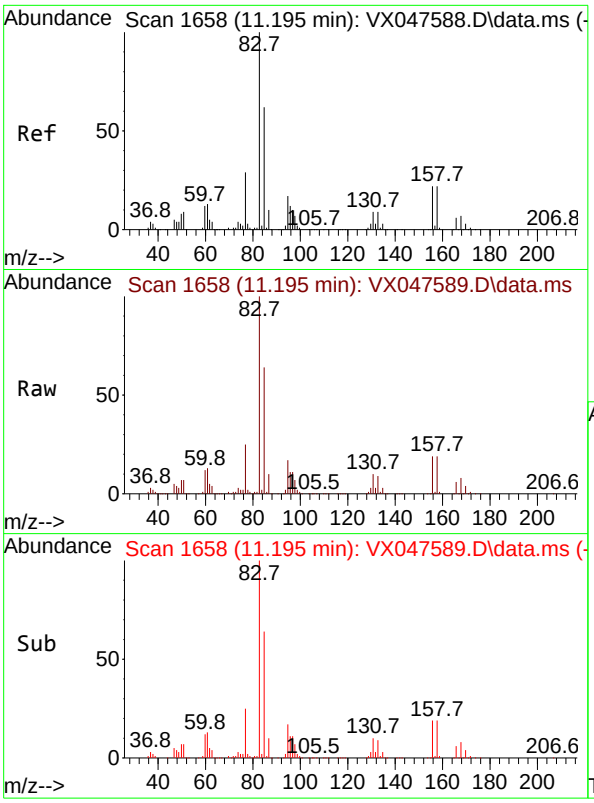


#74
N-amyl acetate
Concen: 105.812 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 448344

Ion	Ratio	Lower	Upper
43	100		
70	39.6	32.0	48.0
55	22.8	18.9	28.3
61	23.4	18.8	28.2

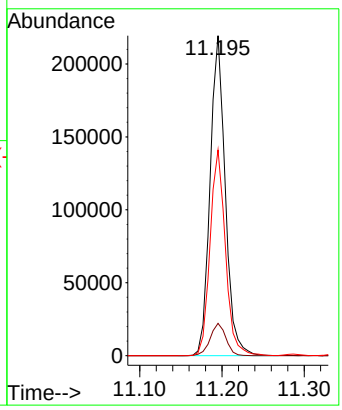




#75
1,1,2,2-Tetrachloroethane
Concen: 100.172 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 28160

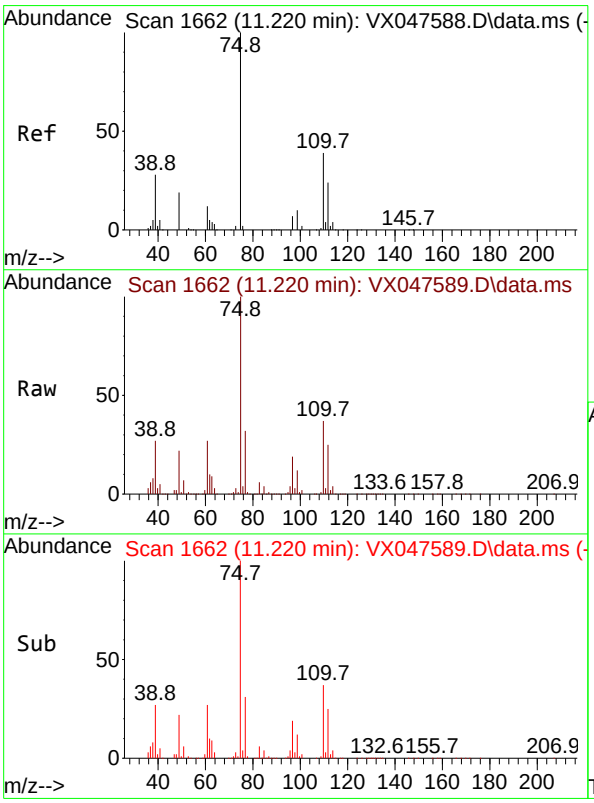
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	65.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

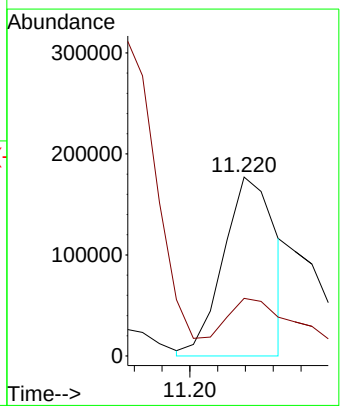
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

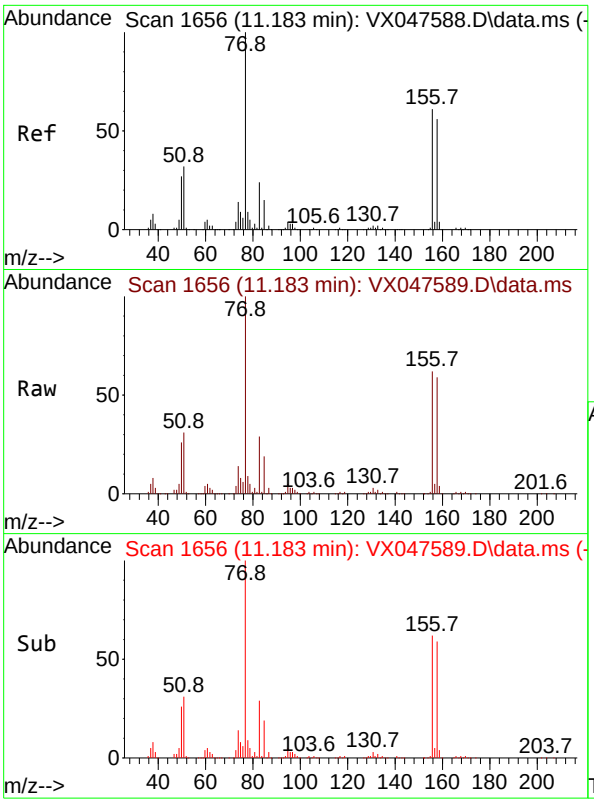


#76
1,2,3-Trichloropropane
Concen: 90.444 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 229521

Ion	Ratio	Lower	Upper
75	100		
77	43.9	18.8	56.4

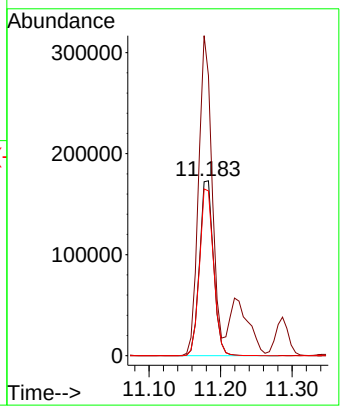




#77
Bromobenzene
Concen: 102.541 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:156 Resp: 23466

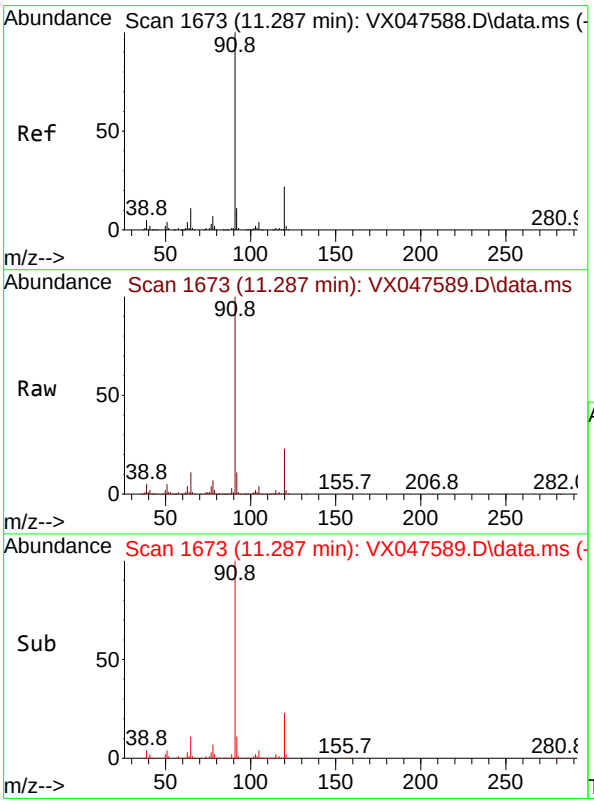
Ion	Ratio	Lower	Upper
156	100		
77	176.0	89.7	269.1
158	96.5	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

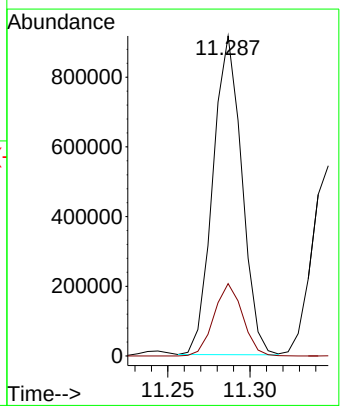
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

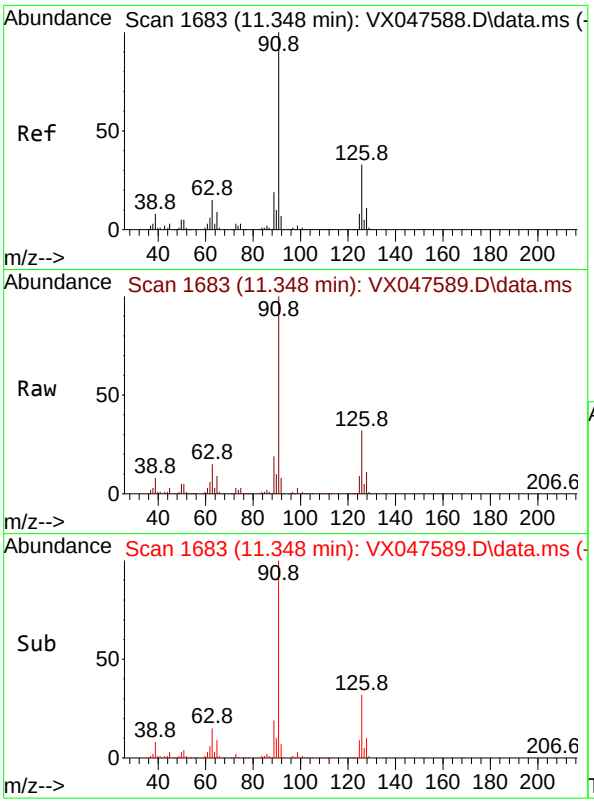


#78
n-propylbenzene
Concen: 101.941 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 1119728

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

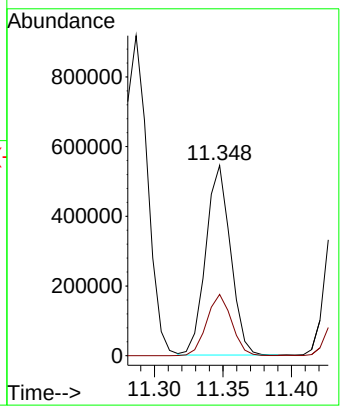




#79
2-Chlorotoluene
Concen: 101.652 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 68386

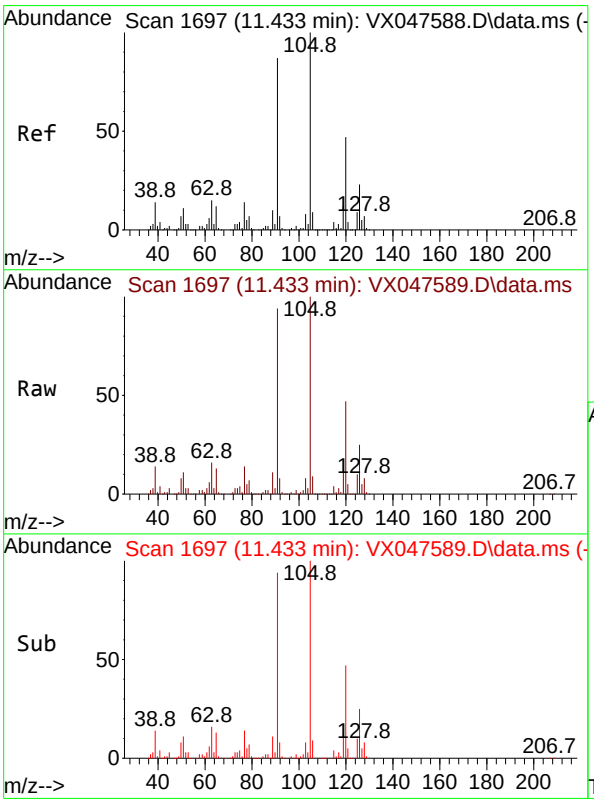
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

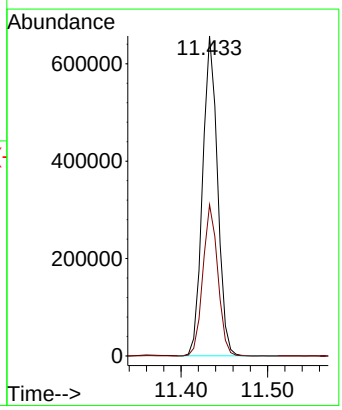
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

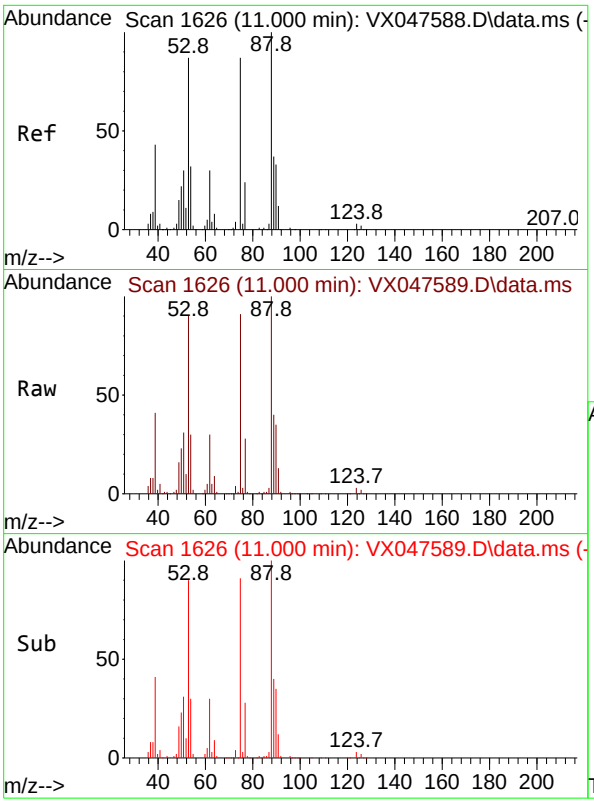


#80
1,3,5-Trimethylbenzene
Concen: 103.134 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 787327

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8

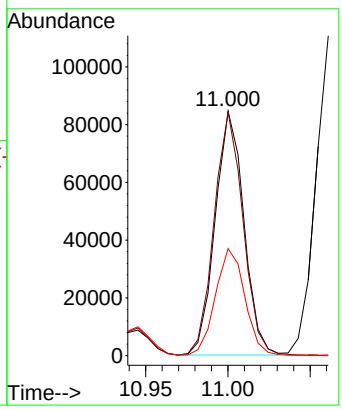




#81
trans-1,4-Dichloro-2-butene
Concen: 105.689 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 10255

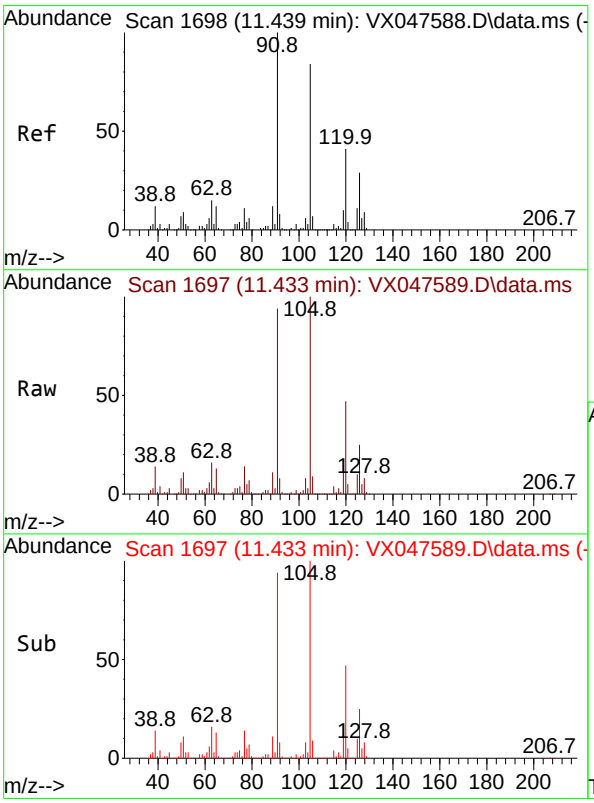
Ion	Ratio	Lower	Upper
75	100		
53	101.1	83.4	125.2
89	45.3	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

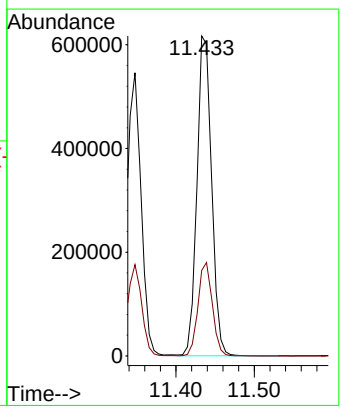
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

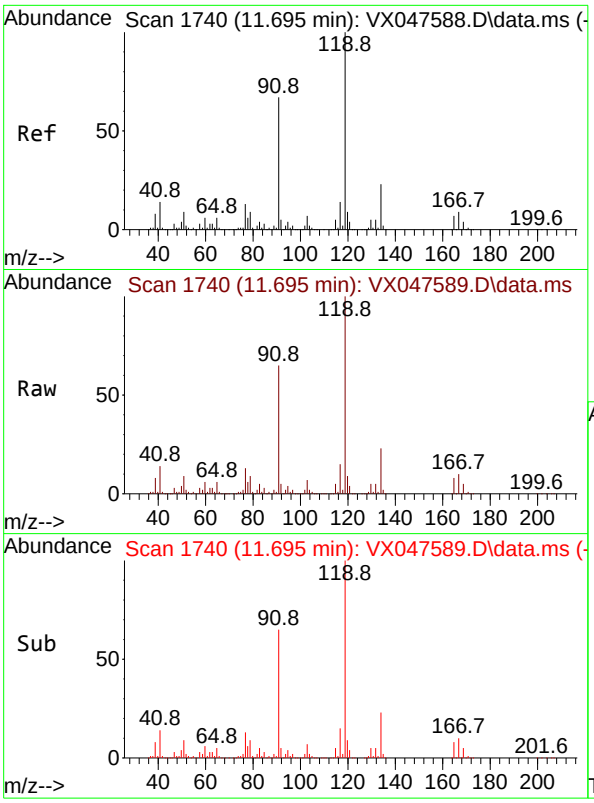


#82
4-Chlorotoluene
Concen: 101.054 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 802929

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

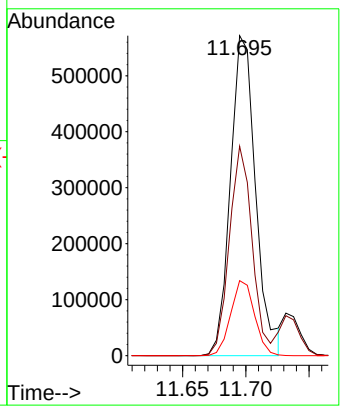




#83
tert-Butylbenzene
Concen: 101.333 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 79189

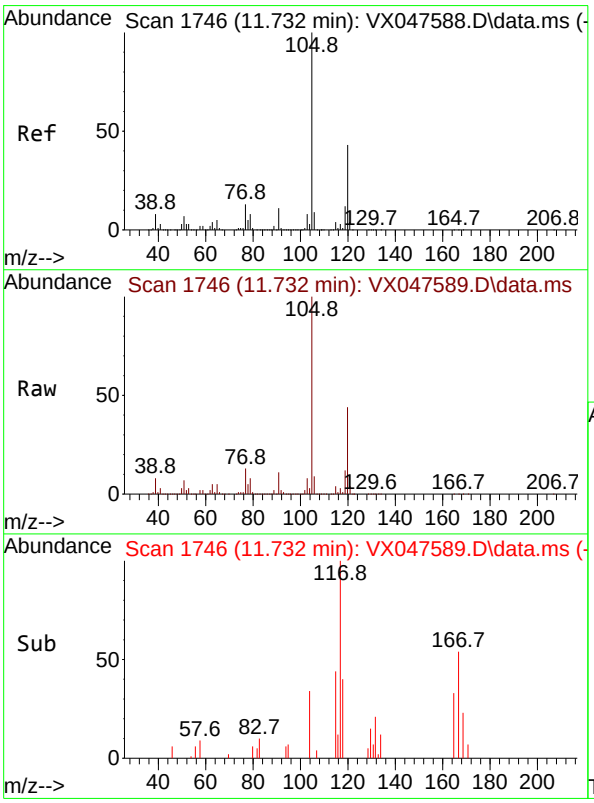
Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

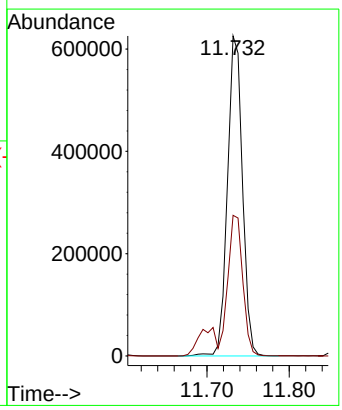
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

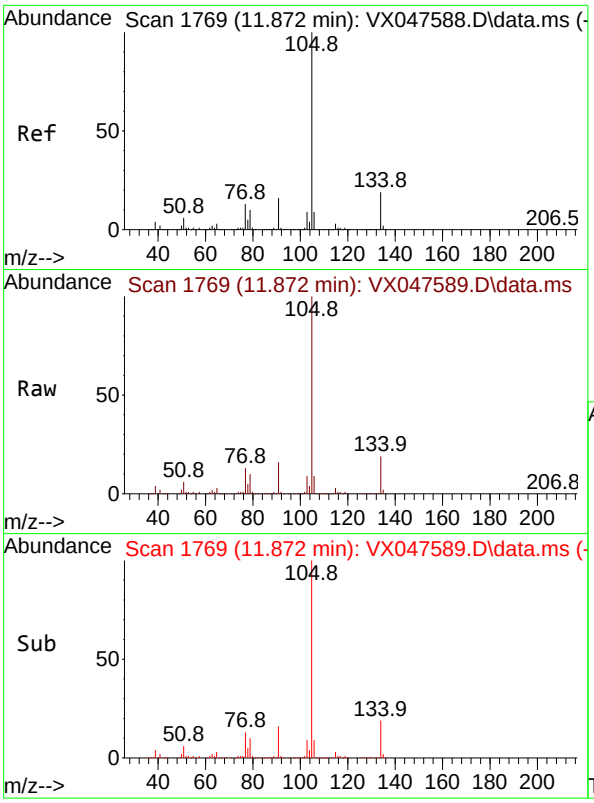


#84
1,2,4-Trimethylbenzene
Concen: 102.144 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 790557

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	66.1

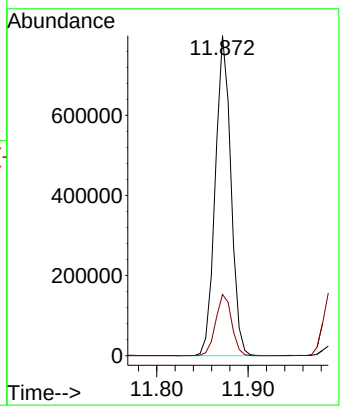




#85
sec-Butylbenzene
Concen: 101.840 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 94532

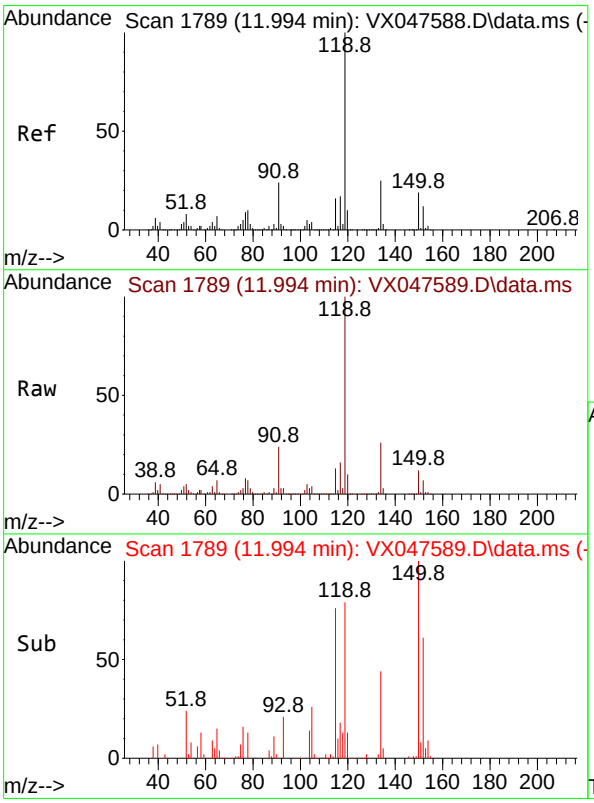
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

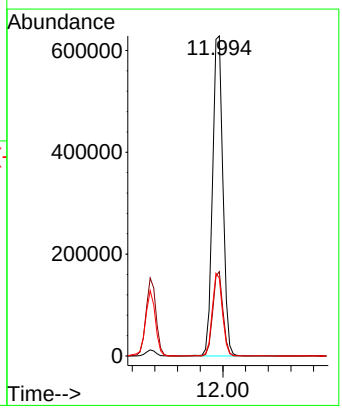
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

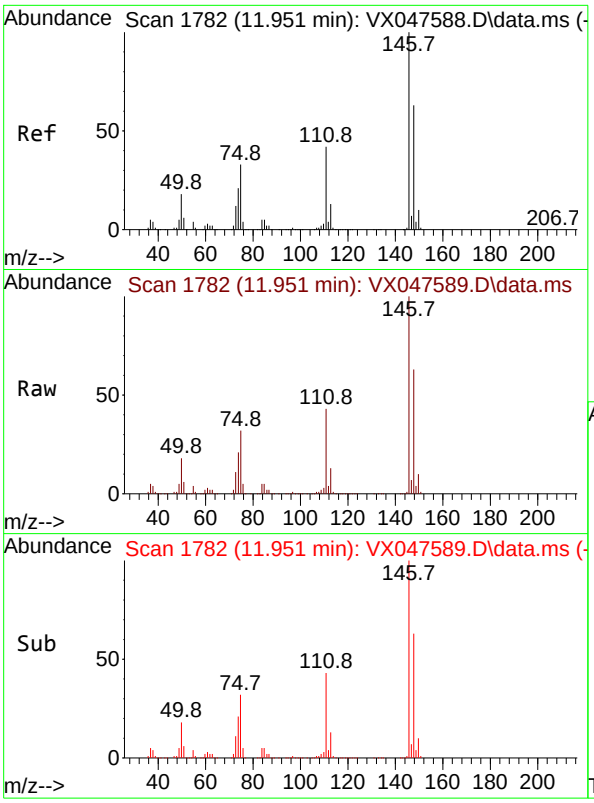


#86
p-Isopropyltoluene
Concen: 101.501 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 797643

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.6	37.8
91	25.2	12.6	37.6

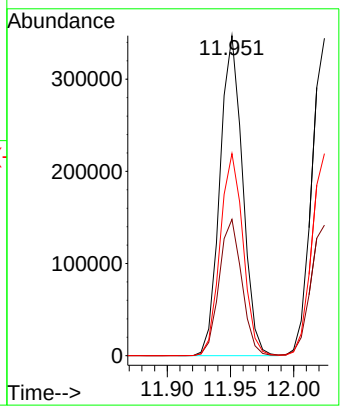




#87
1,3-Dichlorobenzene
Concen: 101.689 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 43224

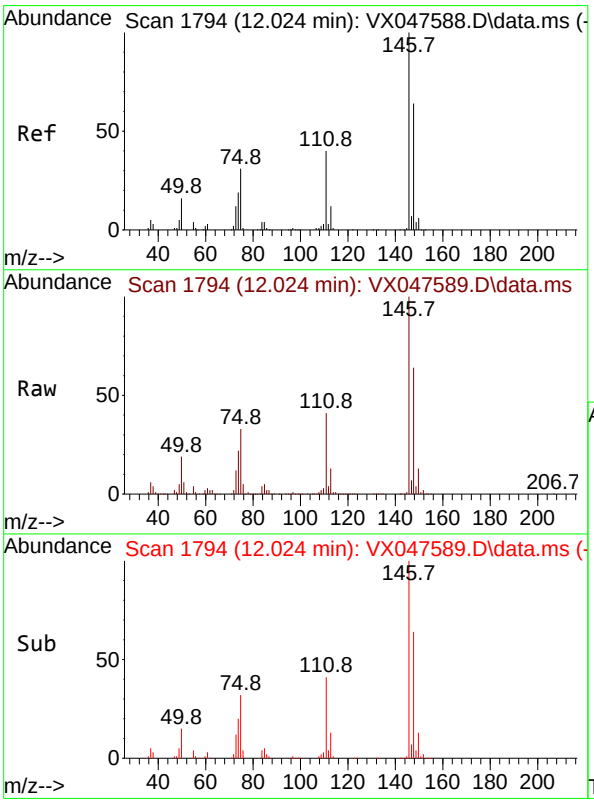
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.9	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

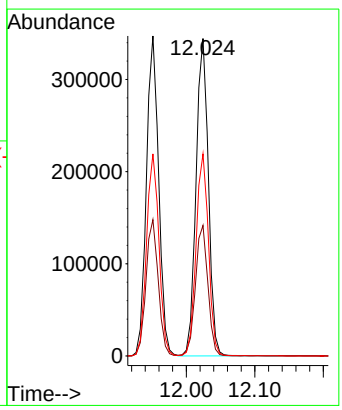
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

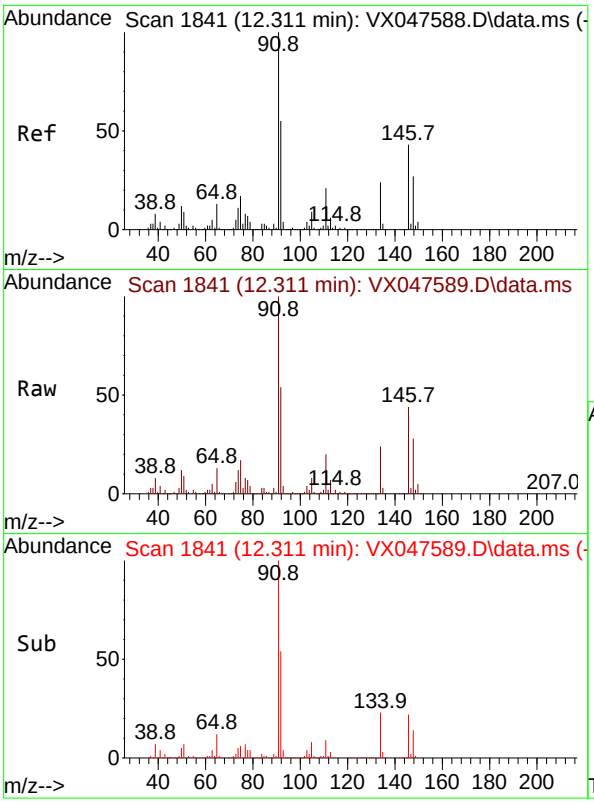


#88
1,4-Dichlorobenzene
Concen: 98.985 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 431839

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.8	31.7	95.1

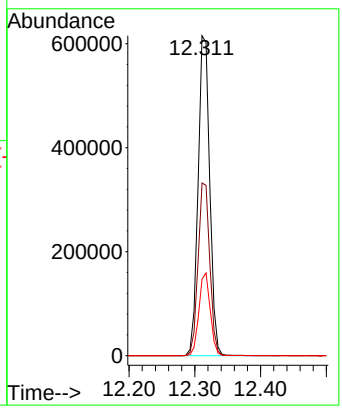




#89
n-Butylbenzene
Concen: 104.138 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 75723

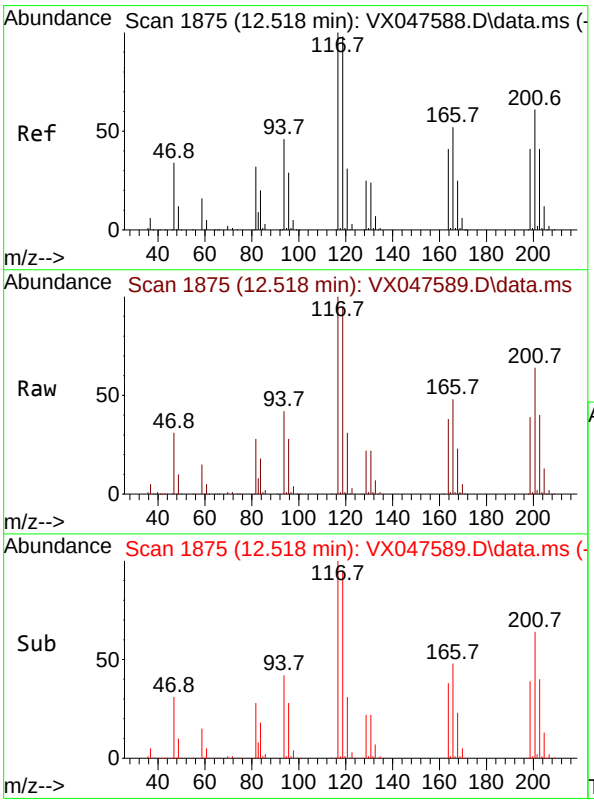
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

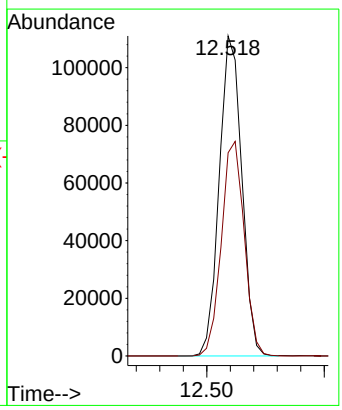
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

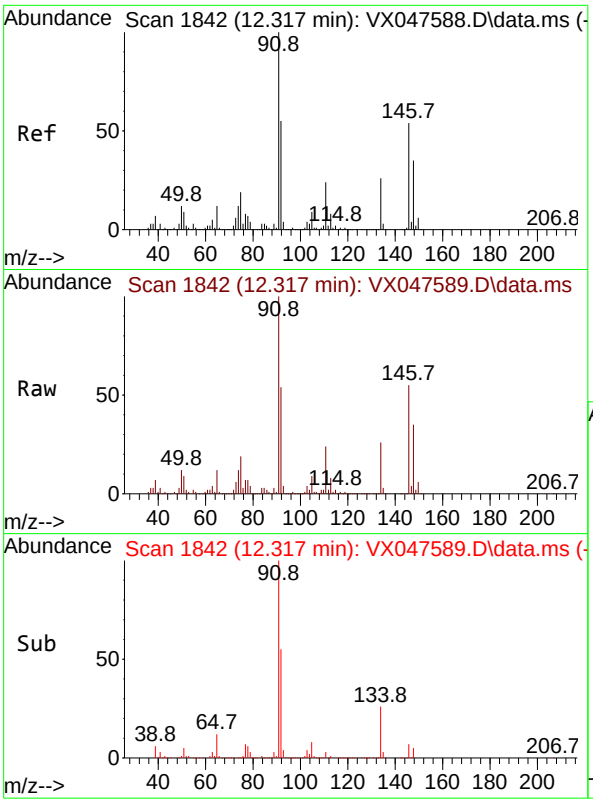


#90
Hexachloroethane
Concen: 107.304 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 148048

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.2	102.5

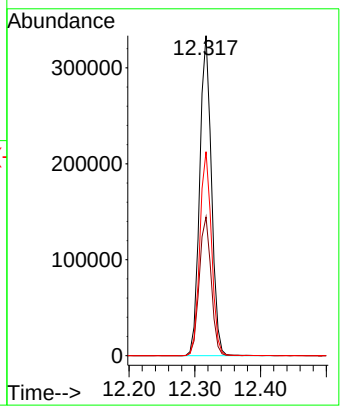




#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 41449

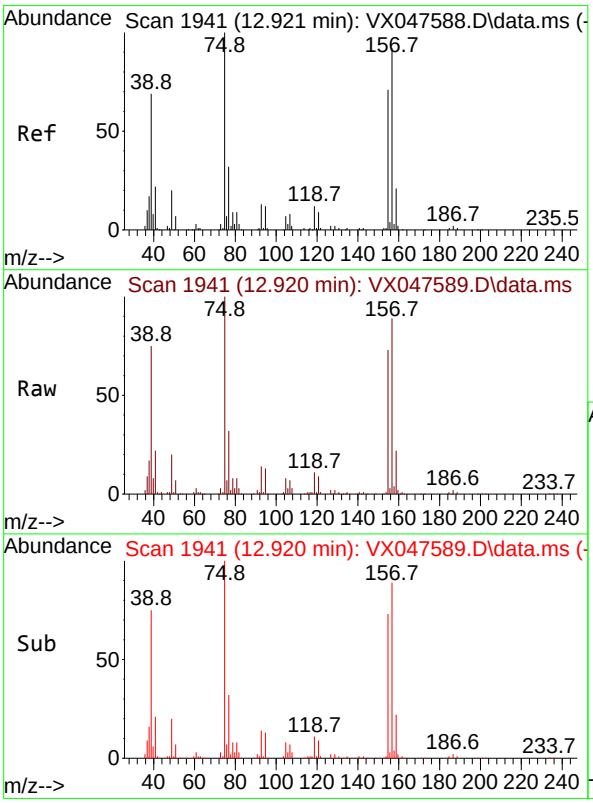
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.4	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

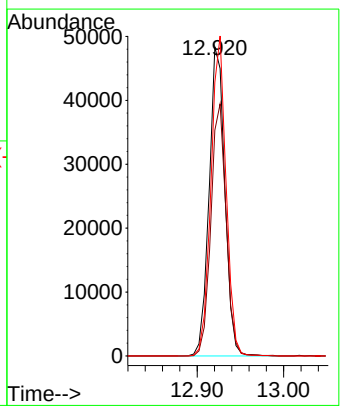
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

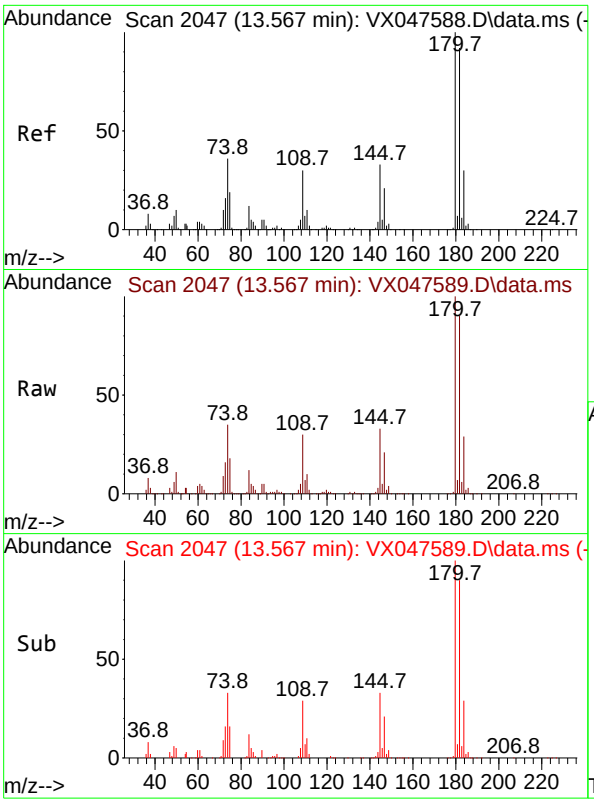


#92
1,2-Dibromo-3-Chloropropane
Concen: 107.225 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 61029

Ion	Ratio	Lower	Upper
75	100		
155	79.0	37.7	113.1
157	99.2	49.8	149.4

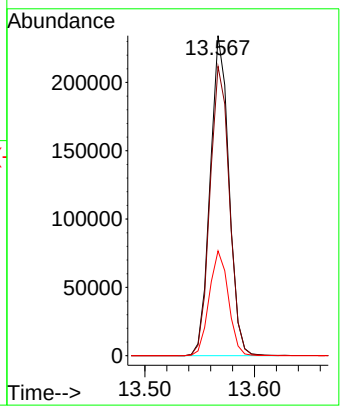




#93
1,2,4-Trichlorobenzene
Concen: 105.922 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 27877

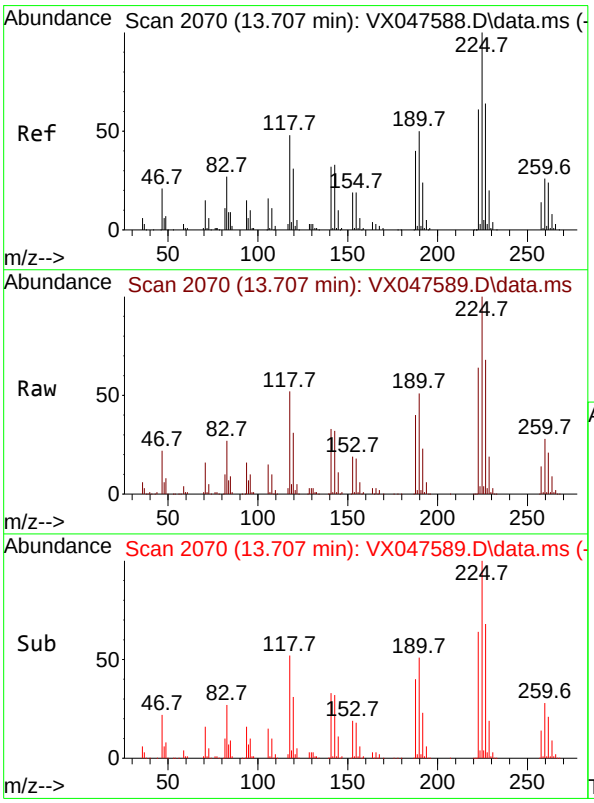
Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

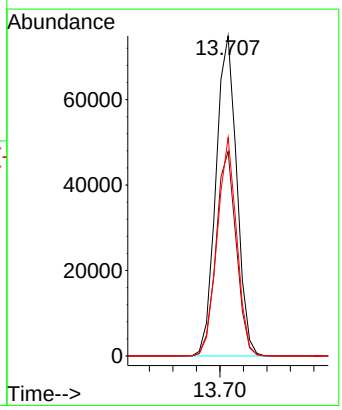
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

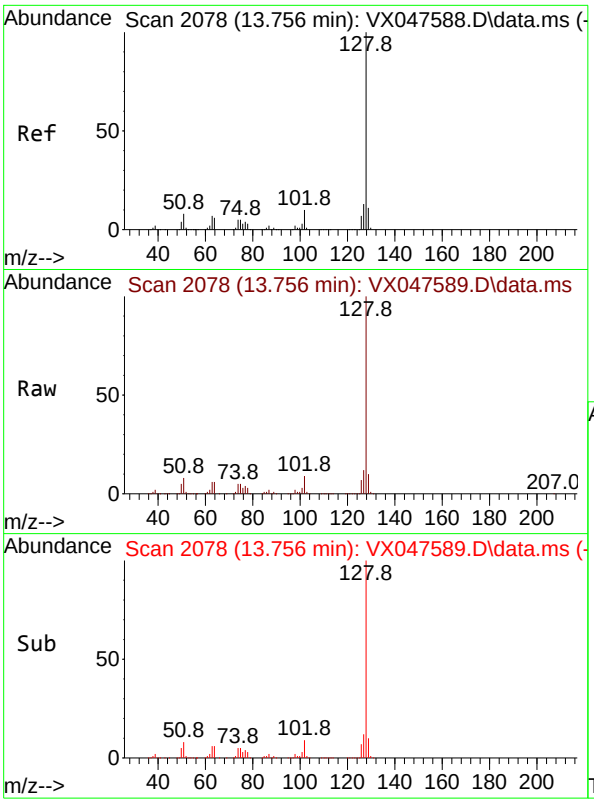


#94
Hexachlorobutadiene
Concen: 103.049 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:225 Resp: 92124

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.7	95.1
227	63.8	32.0	96.0

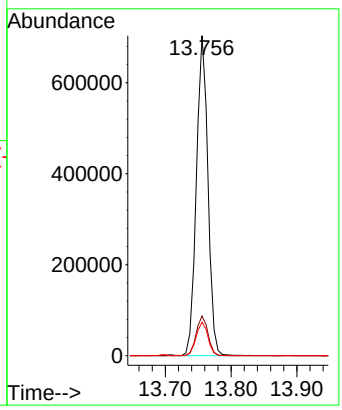




#95
Naphthalene
Concen: 106.620 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:128 Resp: 85449

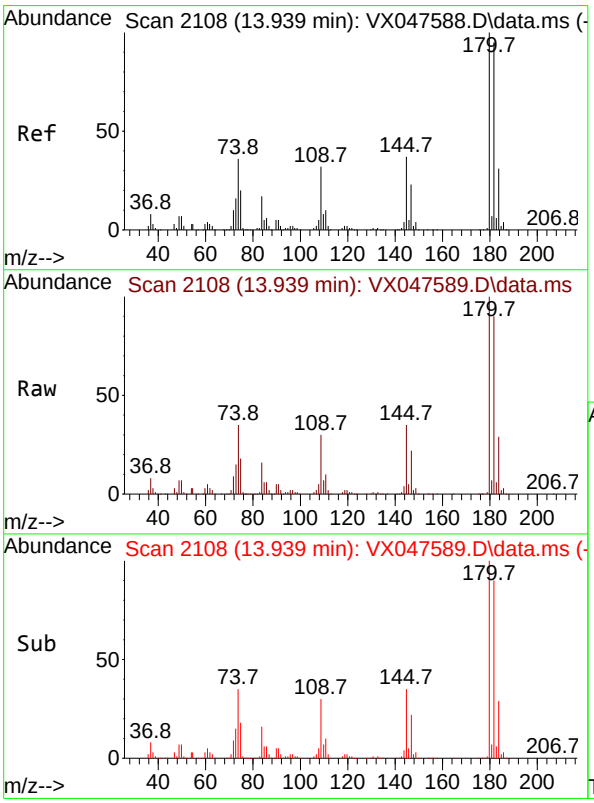
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

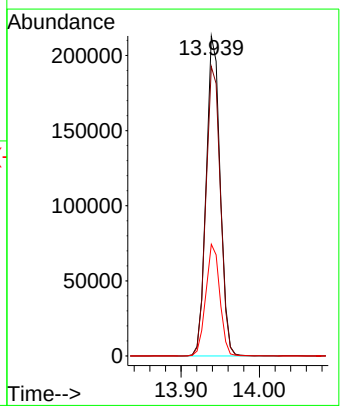
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 107.633 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 263512

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	35.0	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 325.340%#			
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 329.600%#			
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 326.500%#			
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 330.040%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951 ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515 ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283 ug/l	99
44) Trichloroethene	7.111	130	299673	151.542 ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219 ug/l	99
46) Dibromomethane	7.568	93	228550	149.954 ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710 ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194 ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565 ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849 ug/l	100
52) Toluene	8.702	92	739332	146.712 ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076 ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732 ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781 ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773 ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661 ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035 ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318 ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949 ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590 ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733 ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026 ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381 ug/l	99
69) o-Xylene	10.628	106	521840	152.920 ug/l	99
70) Styrene	10.640	104	917532	153.449 ug/l	99
71) Bromoform	10.781	173	229683	162.262 ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477 ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035 ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	366171m	153.692 ug/l	
77) Bromobenzene	11.183	156	328336	152.818 ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337 ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781 ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176 ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112 ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819 ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336 ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448 ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633 ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814 ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222 ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258 ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332 ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884 ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110 ug/l	99
95) Naphthalene	13.756	128	1229363	163.388 ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

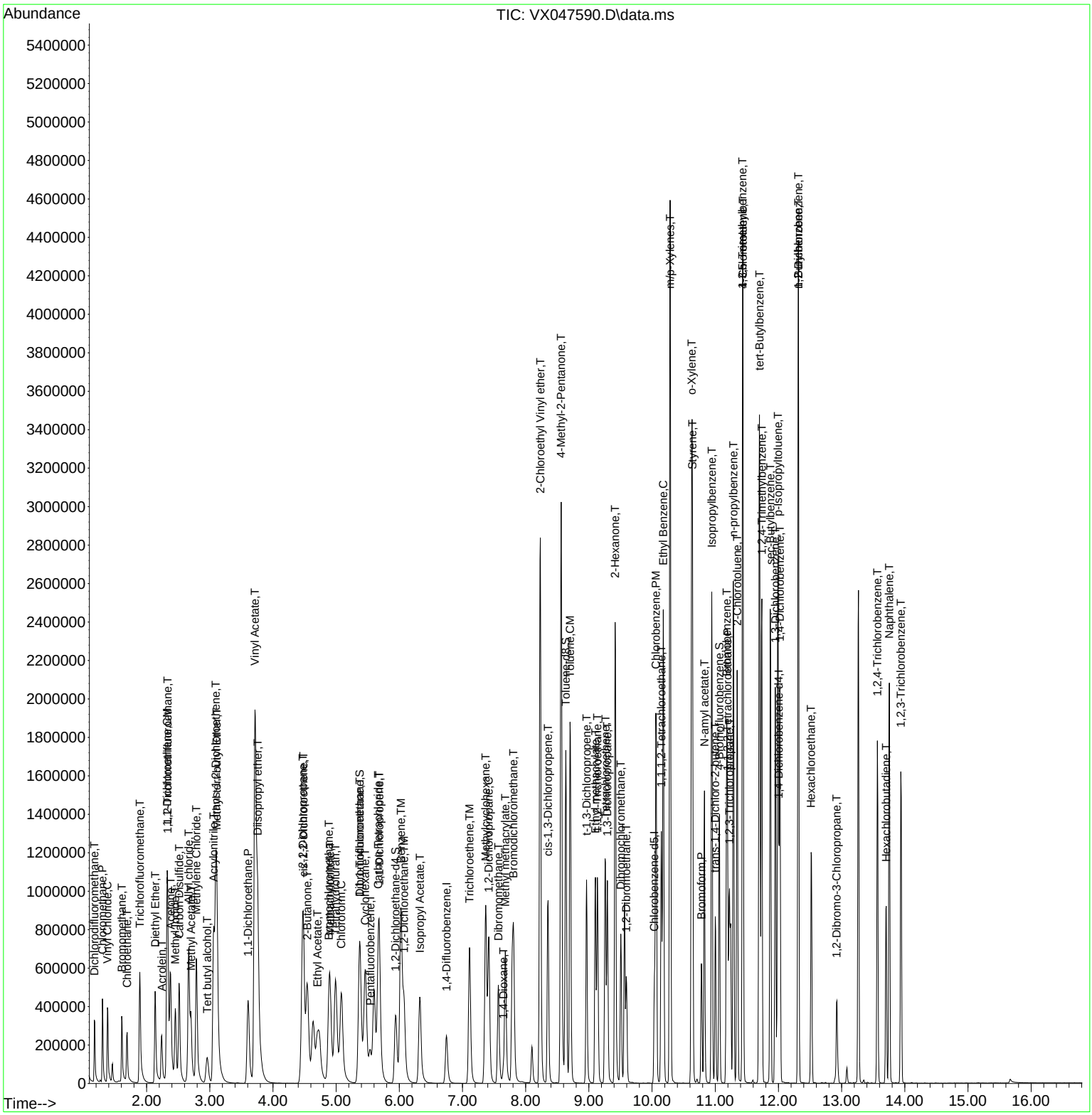
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

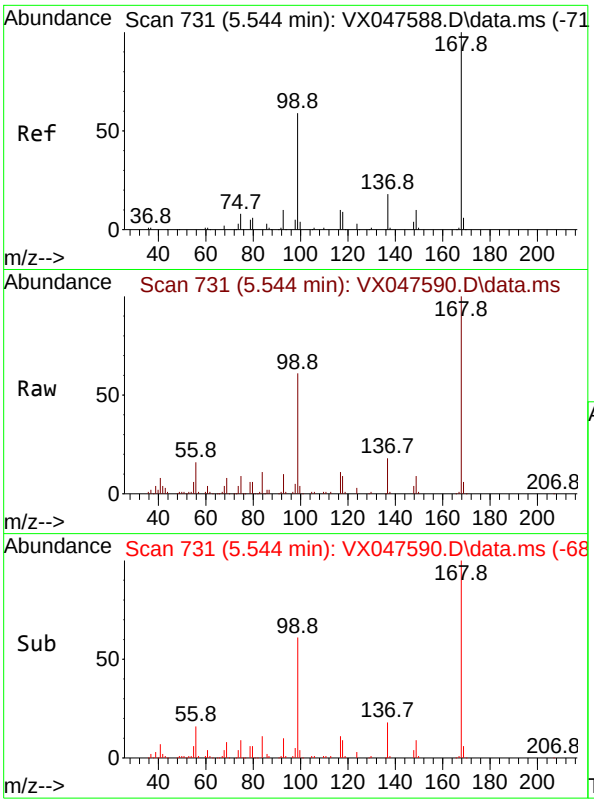
Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

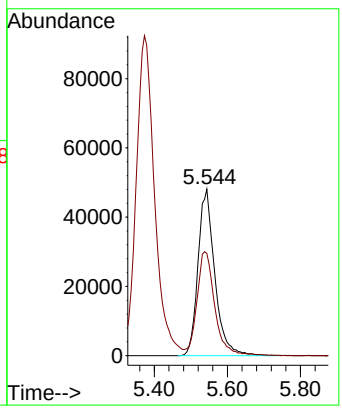




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:168 Resp: 15317

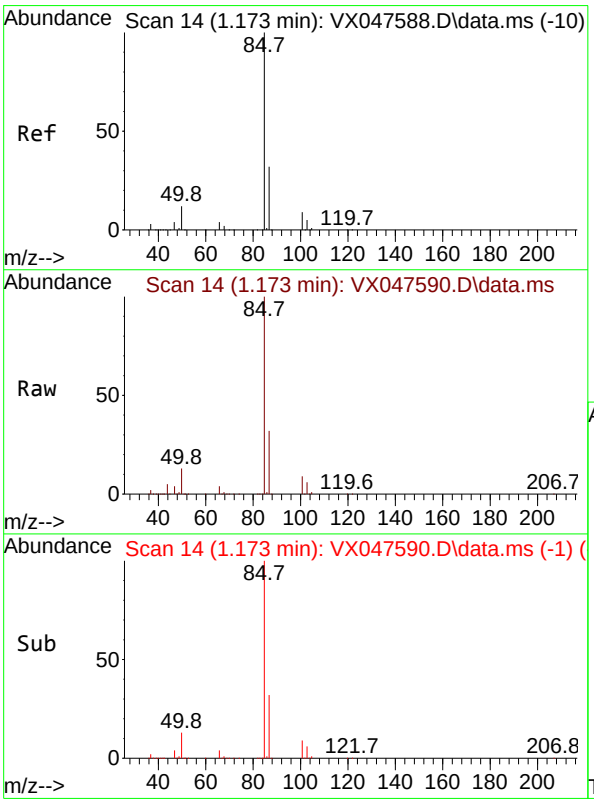
Ion	Ratio	Lower	Upper
168	100		
99	61.1	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

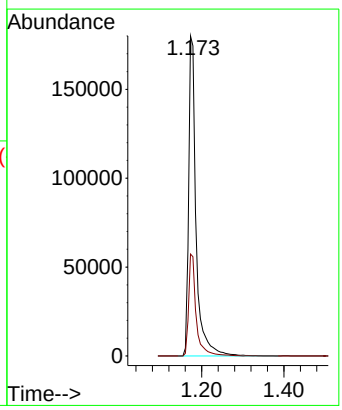
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

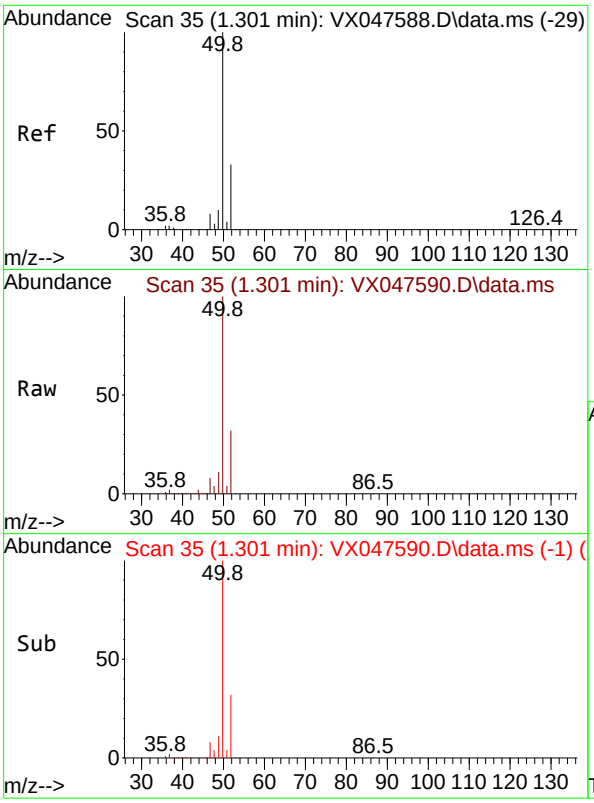


#2
Dichlorodifluoromethane
Concen: 142.586 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 85 Resp: 226166

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3

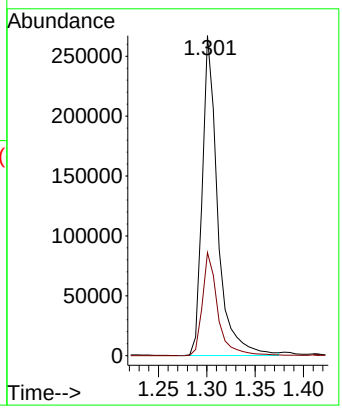




#3
Chloromethane
Concen: 142.593 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 50 Resp: 29725

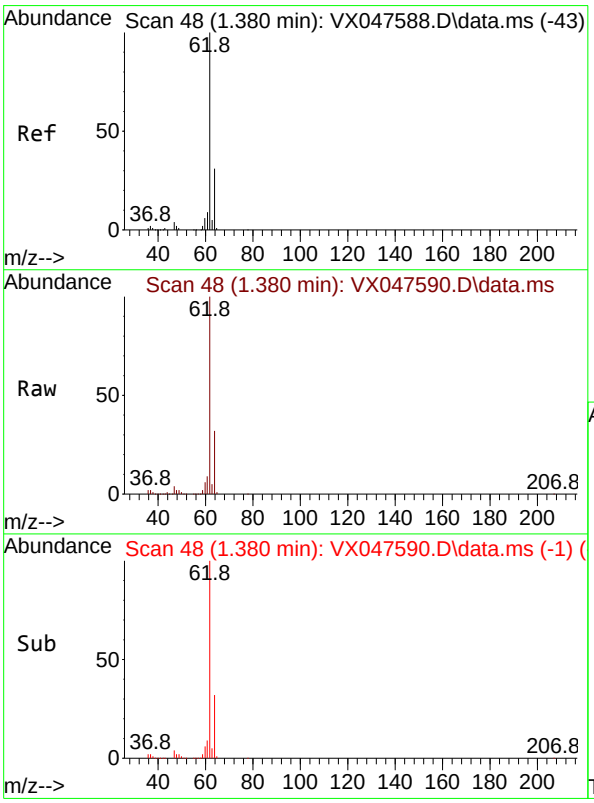
Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

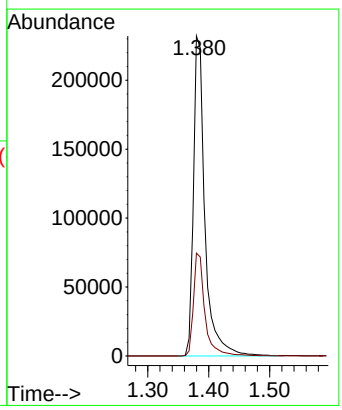
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

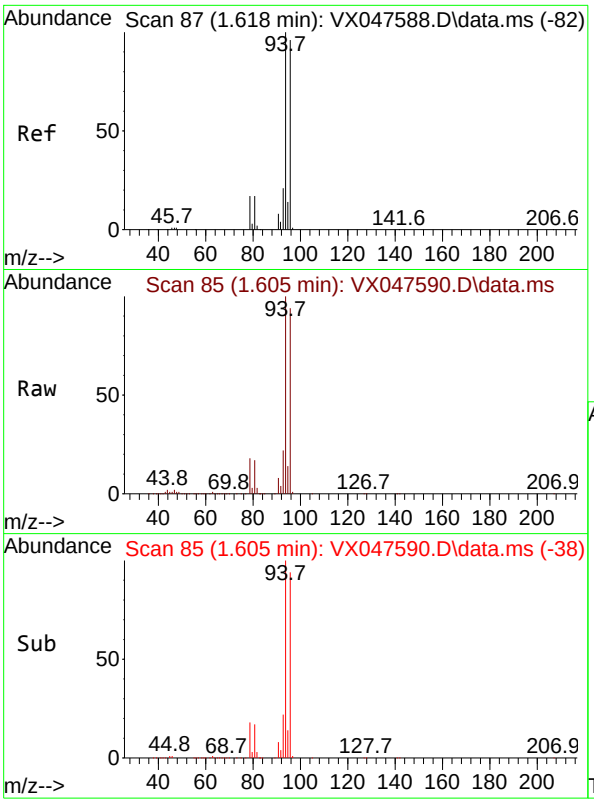


#4
Vinyl Chloride
Concen: 148.140 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 302303

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.9	37.3

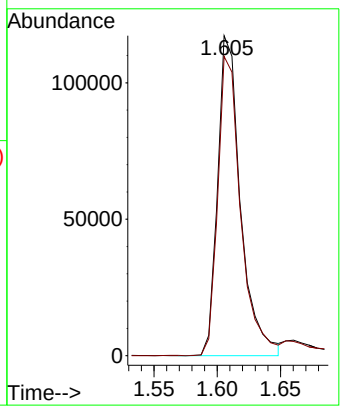




#5
Bromomethane
Concen: 114.019 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 94 Resp: 14754

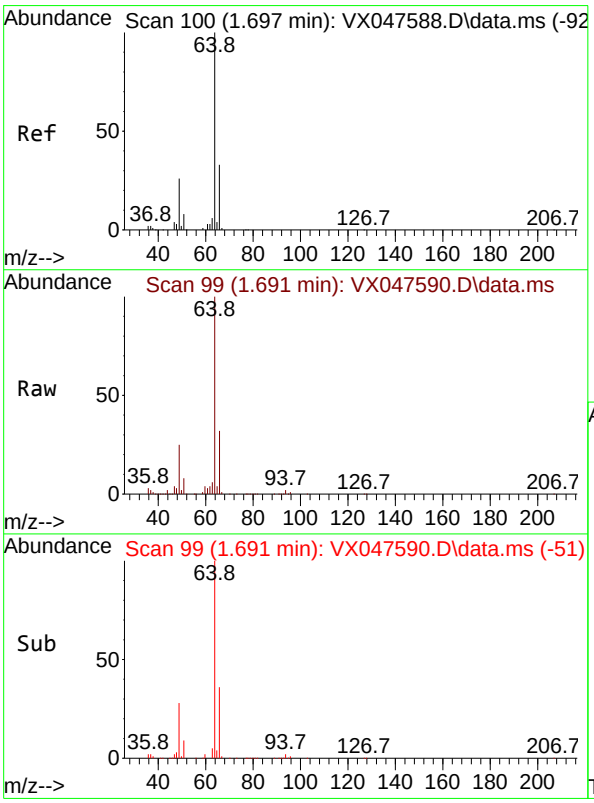
Ion	Ratio	Lower	Upper
94	100		
96	93.4	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

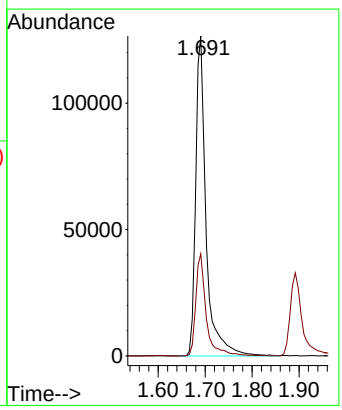
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

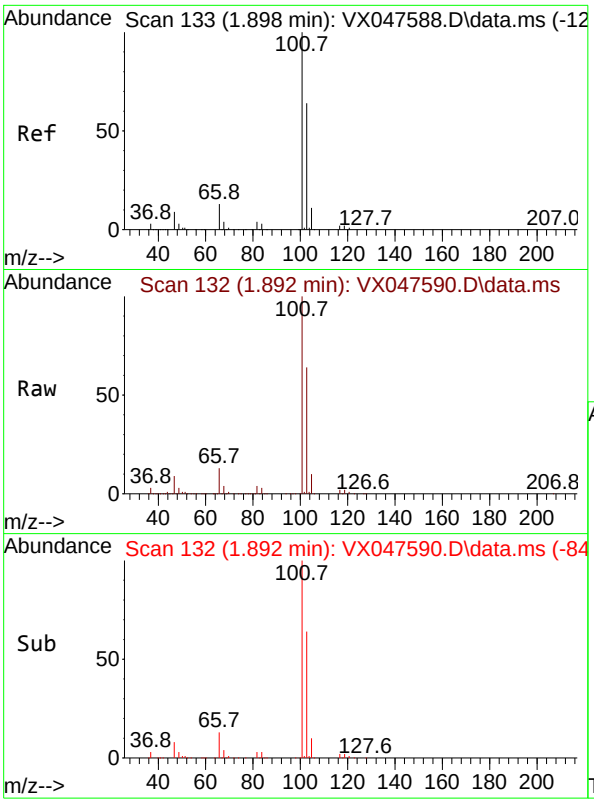


#6
Chloroethane
Concen: 143.652 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 64 Resp: 195927

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1

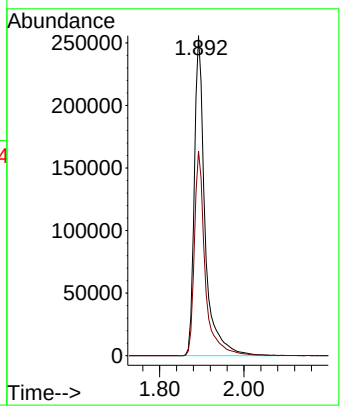




#7
Trichlorofluoromethane
Concen: 149.545 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:101 Resp: 45311

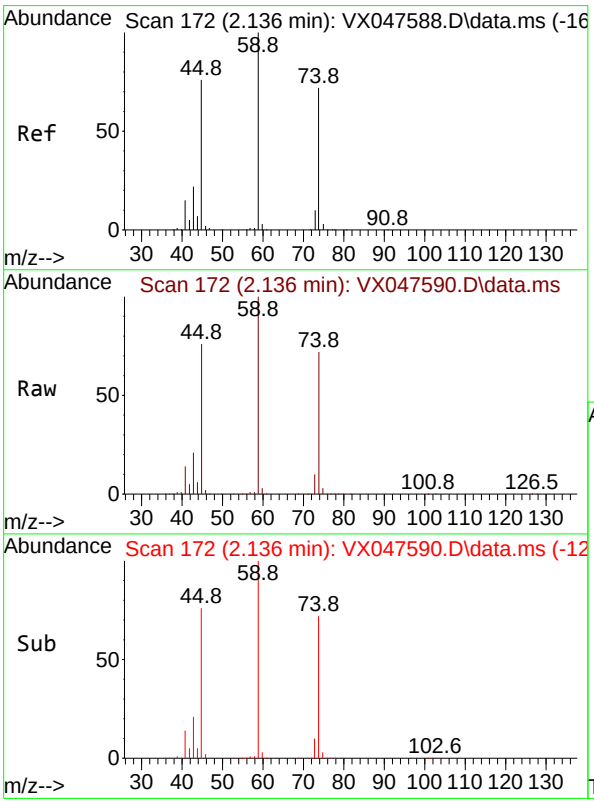
Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

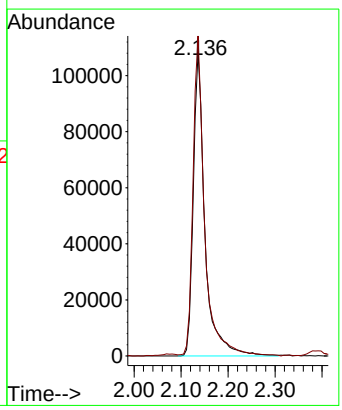
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

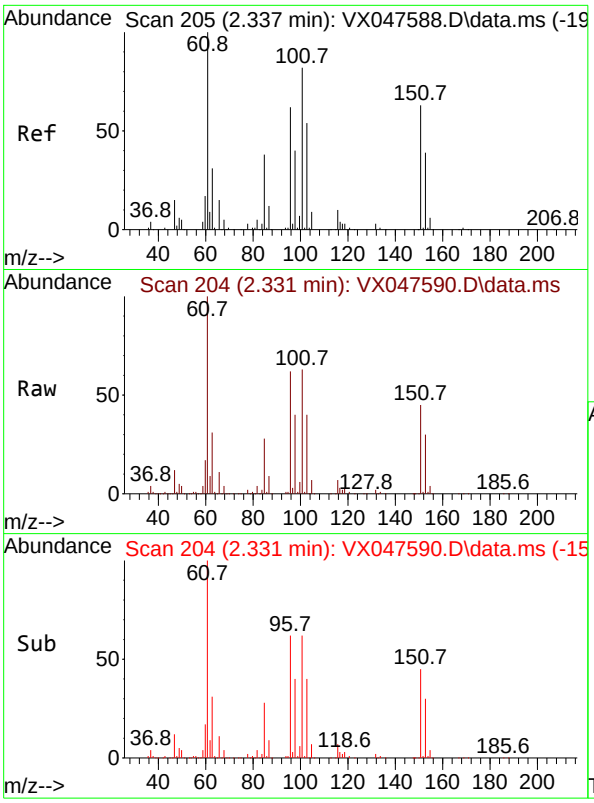


#8
Diethyl Ether
Concen: 151.684 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 74 Resp: 188006

Ion	Ratio	Lower	Upper
74	100		
45	105.5	52.3	156.8

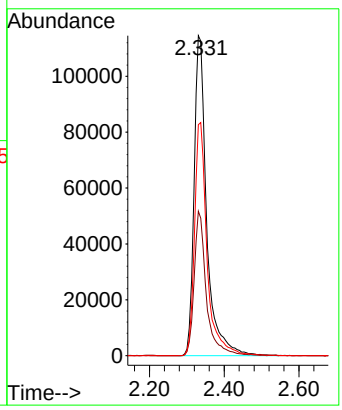




#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.264 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:101 Resp: 26799

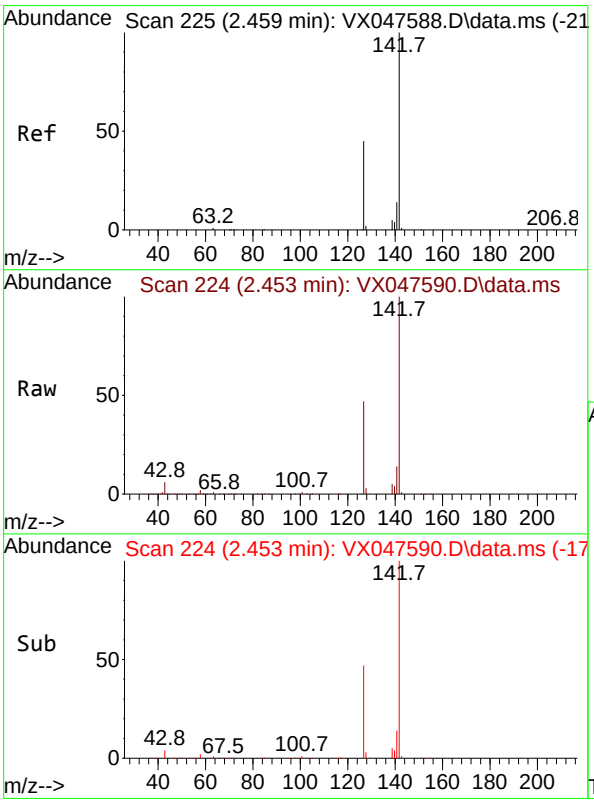
Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

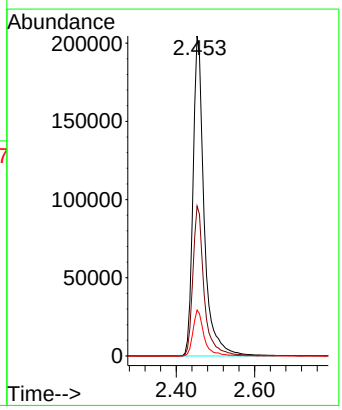
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

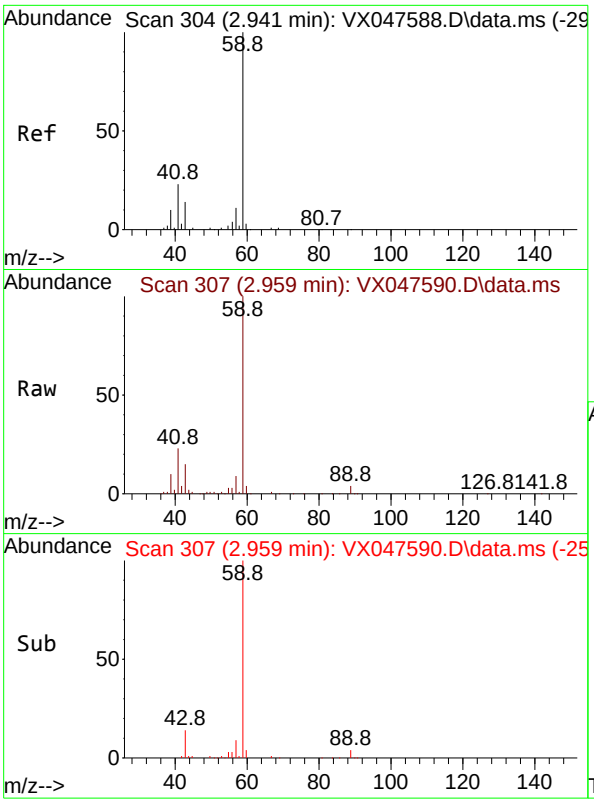


#10
Methyl Iodide
Concen: 147.384 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:142 Resp: 407242

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.3	11.4	17.0

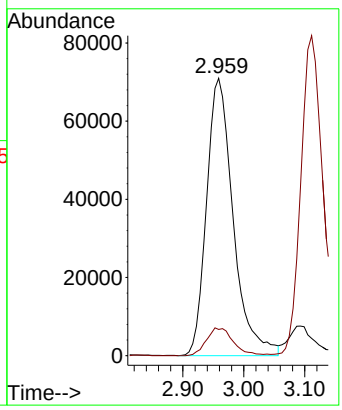




#11
Tert butyl alcohol
Concen: 795.166 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 59 Resp: 21592

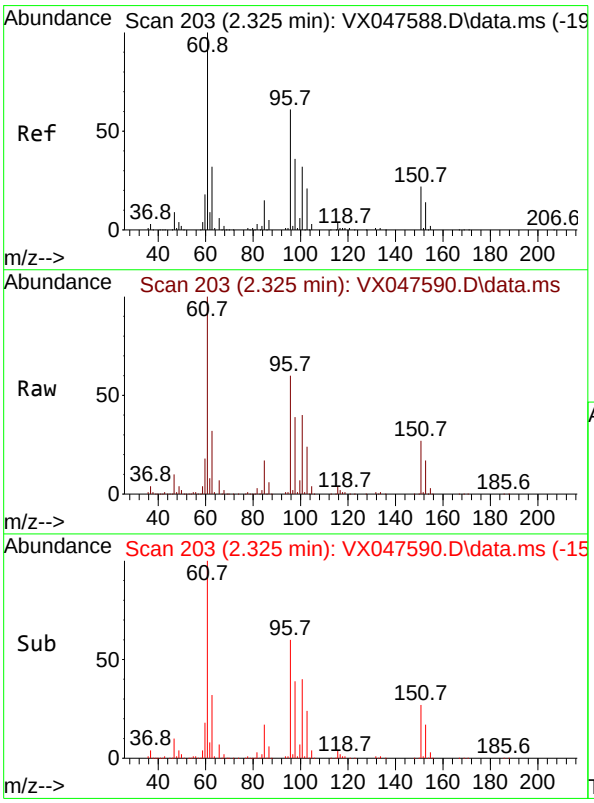
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

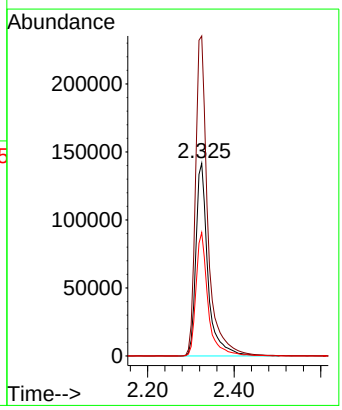
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

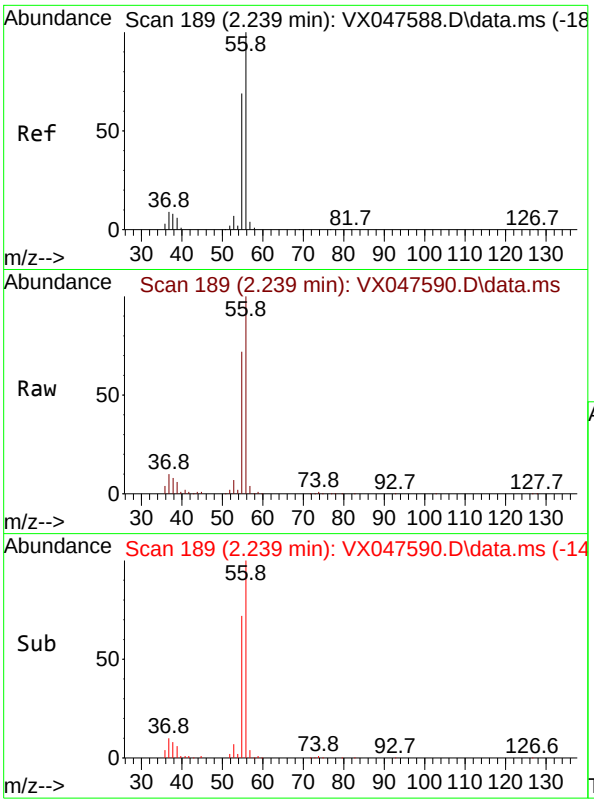


#12
1,1-Dichloroethene
Concen: 150.388 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 273692

Ion	Ratio	Lower	Upper
96	100		
61	166.1	131.0	196.6
98	64.0	47.7	71.5

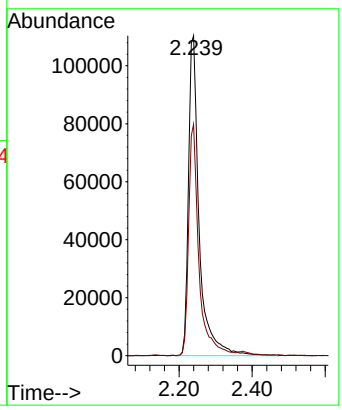




#13
Acrolein
Concen: 894.203 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 56 Resp: 22376

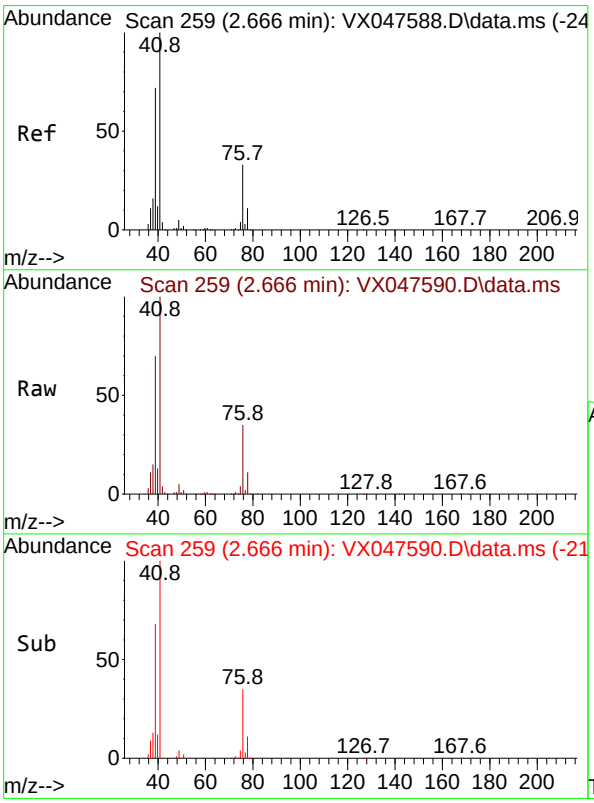
Ion	Ratio	Lower	Upper
56	100		
55	69.6	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

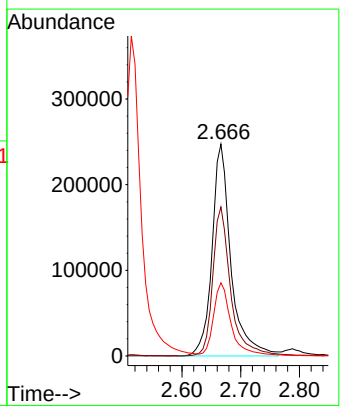
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

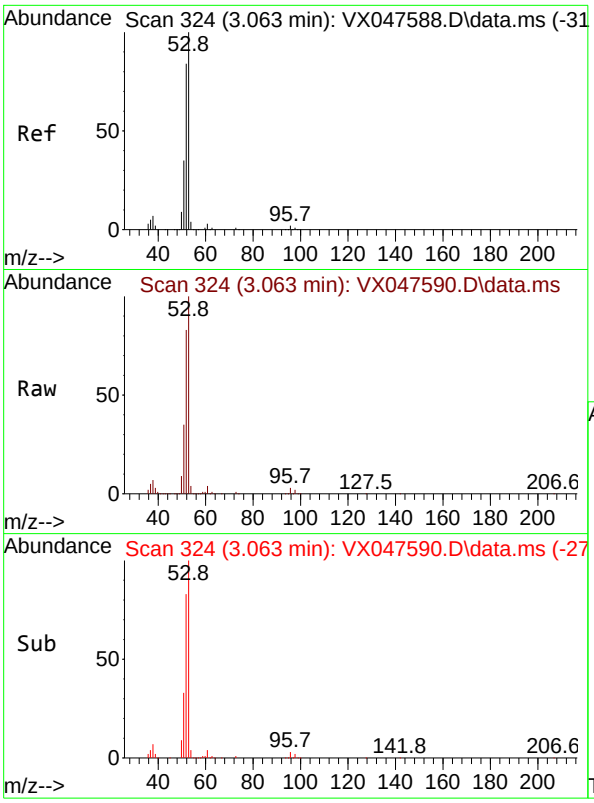


#14
Allyl chloride
Concen: 147.727 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 554779

Ion	Ratio	Lower	Upper
41	100		
39	67.3	54.7	82.1
76	32.4	25.7	38.5





#15
Acrylonitrile
Concen: 786.201 ug/l
RT: 3.063 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

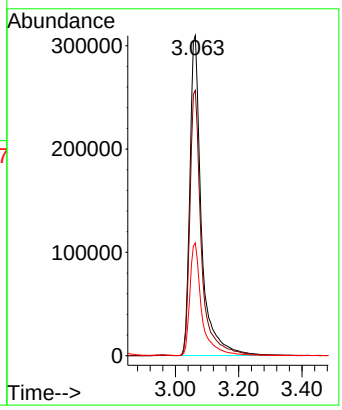
Tgt Ion: 53 Resp: 79079

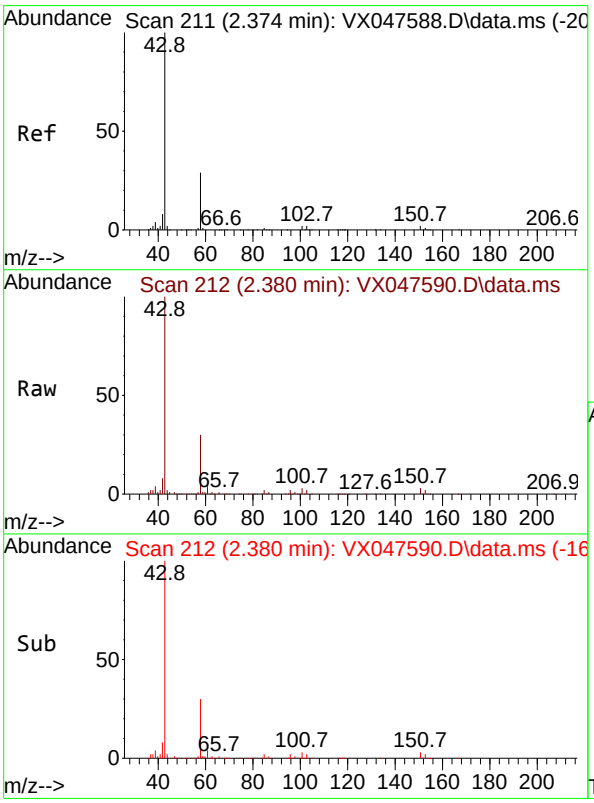
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.1	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

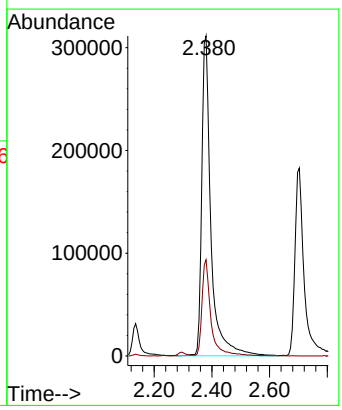


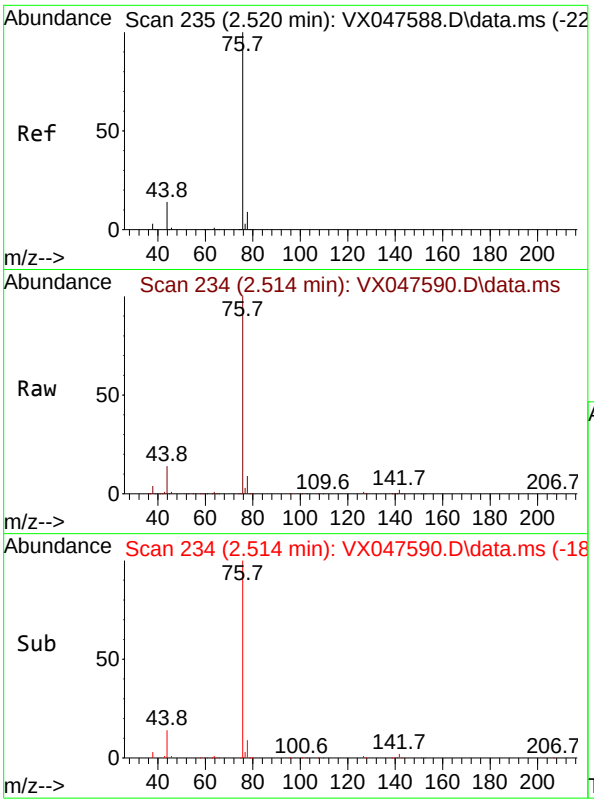


#16
Acetone
Concen: 647.201 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 686119

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0

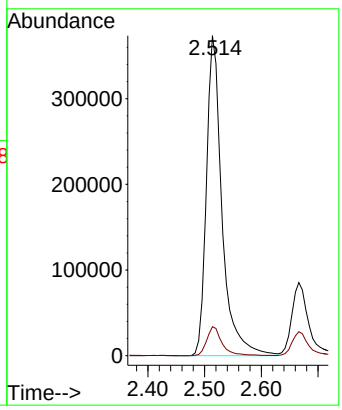




#17
Carbon Disulfide
Concen: 143.412 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 76 Resp: 71450

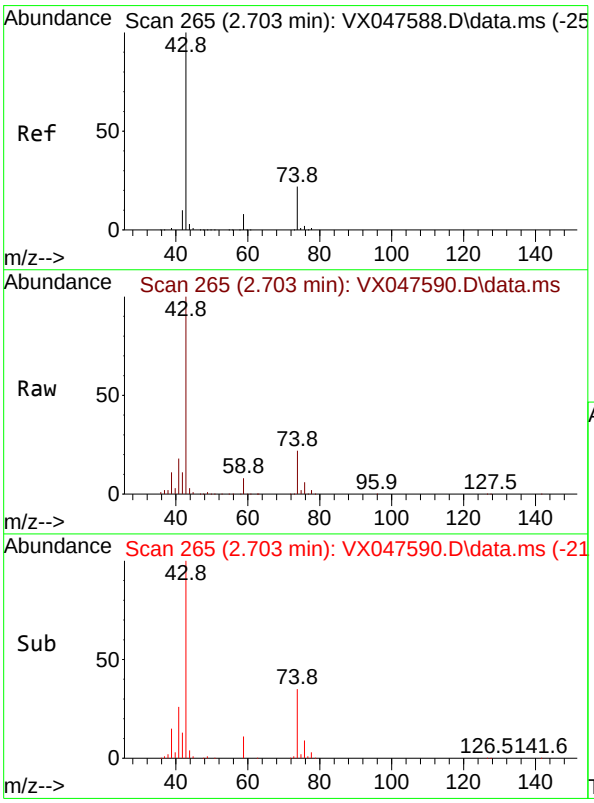
Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

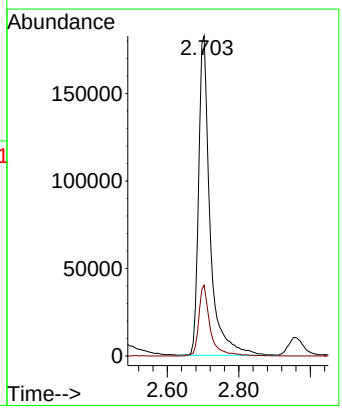
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

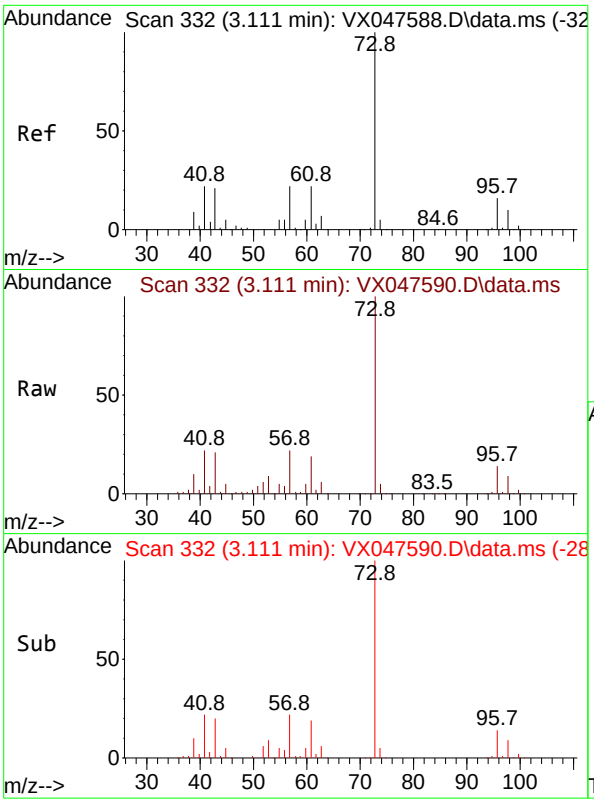


#18
Methyl Acetate
Concen: 171.548 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 404736

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2

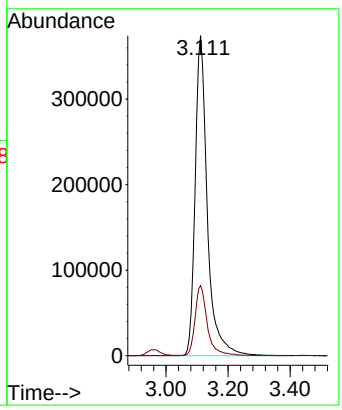




#19
Methyl tert-butyl Ether
Concen: 152.826 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 73 Resp: 101529

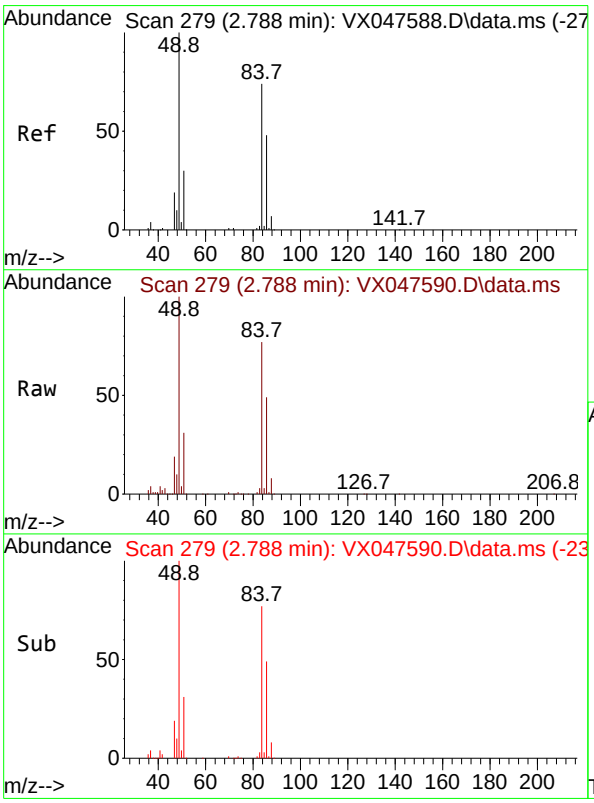
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

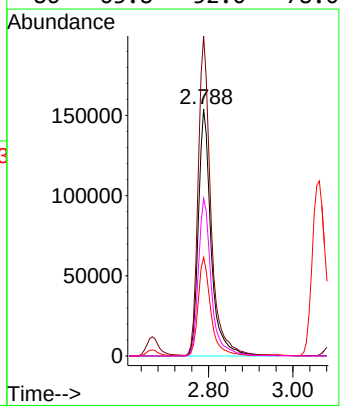
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

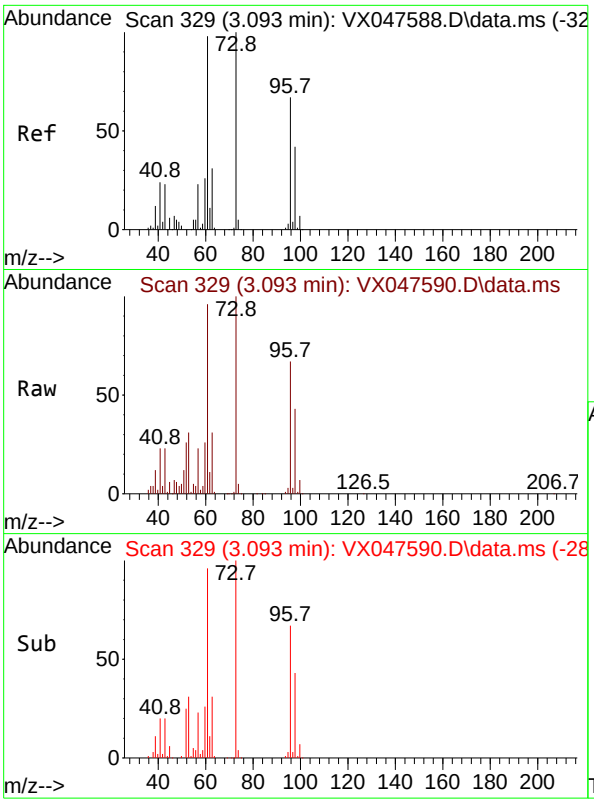


#20
Methylene Chloride
Concen: 144.398 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 84 Resp: 324032

Ion	Ratio	Lower	Upper
84	100		
49	129.4	108.6	162.8
51	39.9	32.6	48.8
86	63.8	52.0	78.0

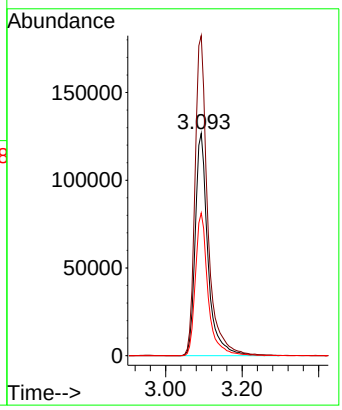




#21
trans-1,2-Dichloroethene
Concen: 148.833 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 29161

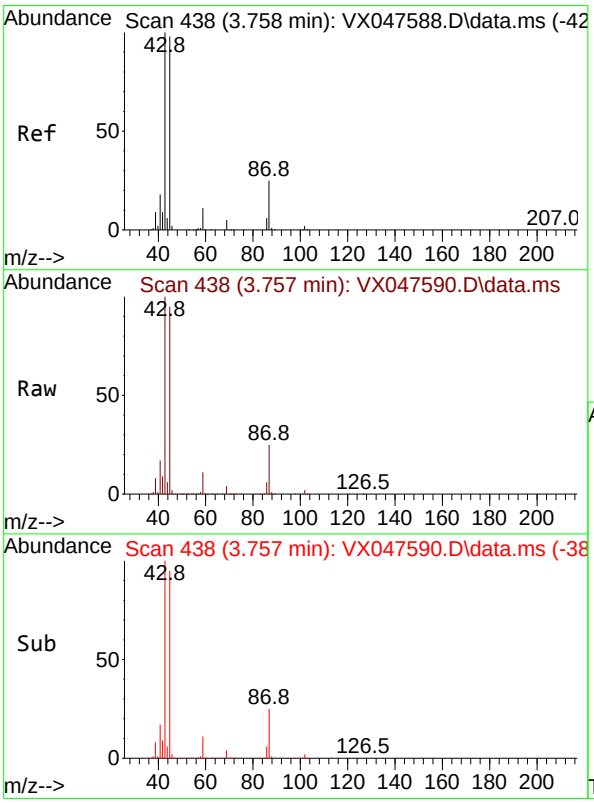
Ion	Ratio	Lower	Upper
96	100		
61	144.0	116.2	174.2
98	64.3	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

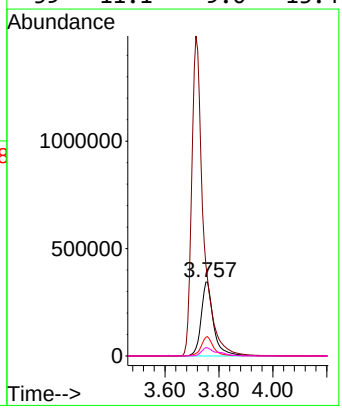
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

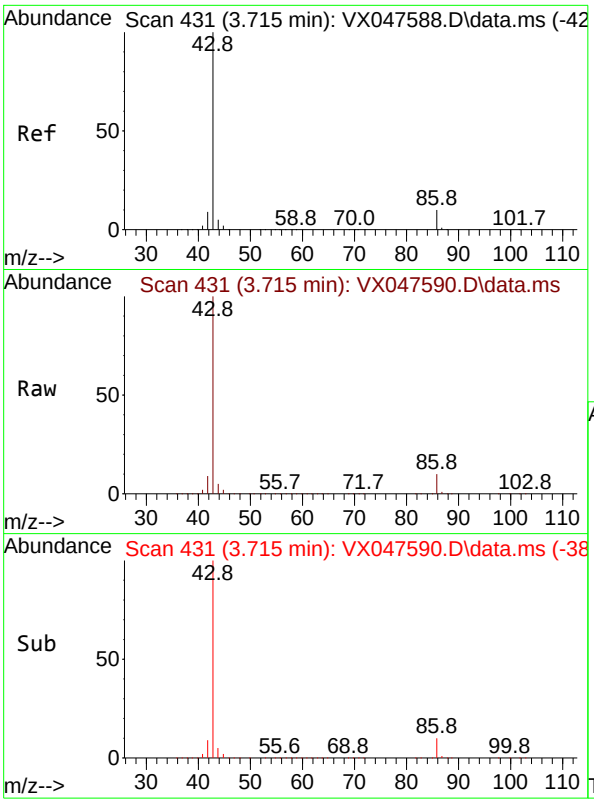


#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 45 Resp: 1095726

Ion	Ratio	Lower	Upper
45	100		
43	104.7	81.0	121.4
87	26.2	20.3	30.5
59	11.1	9.0	13.4

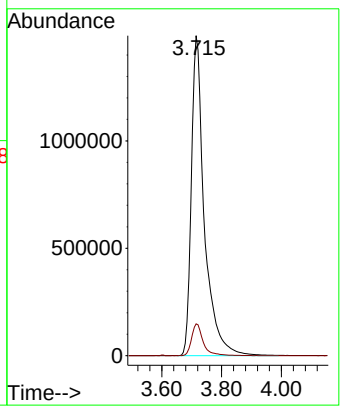




#23
Vinyl Acetate
Concen: 773.364 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 450484

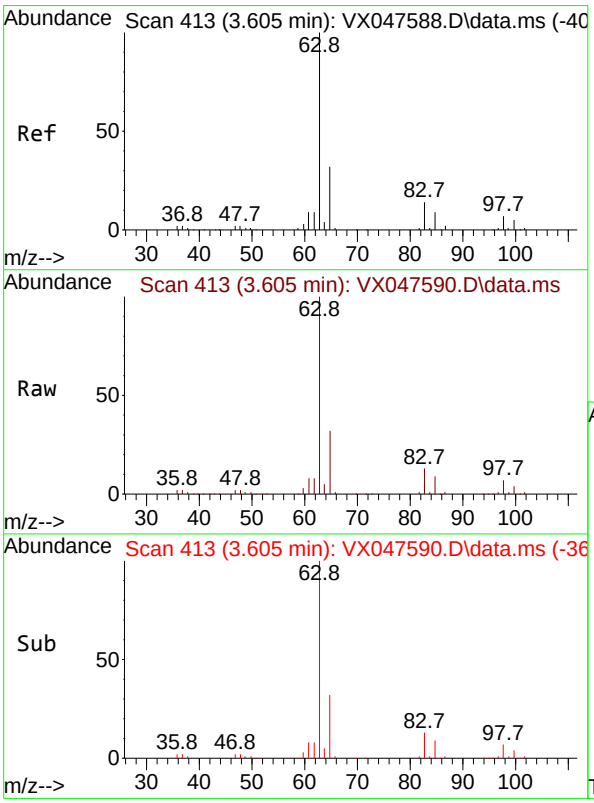
Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

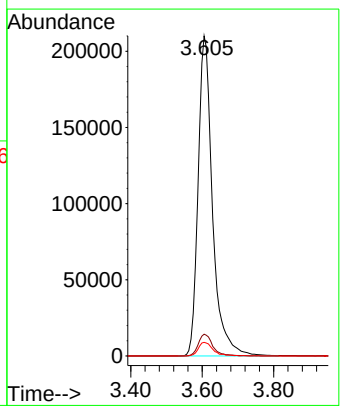
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

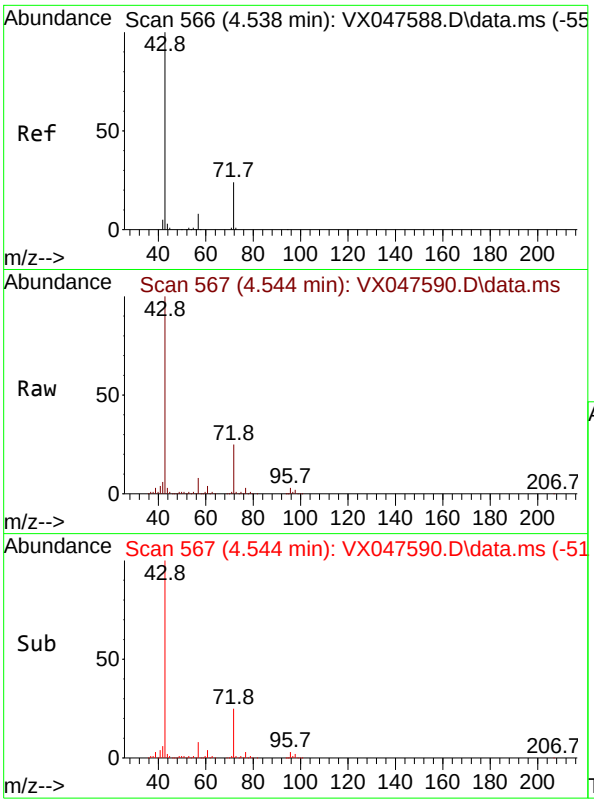


#24
1,1-Dichloroethane
Concen: 151.776 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 587129

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.2
100	4.3	2.3	6.9

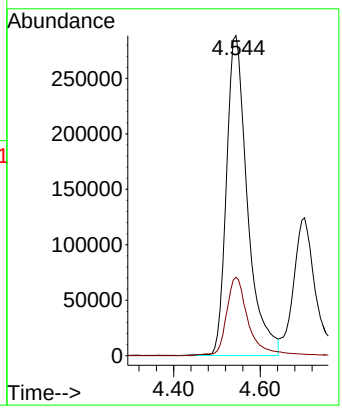




#25
2-Butanone
Concen: 736.502 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 97393

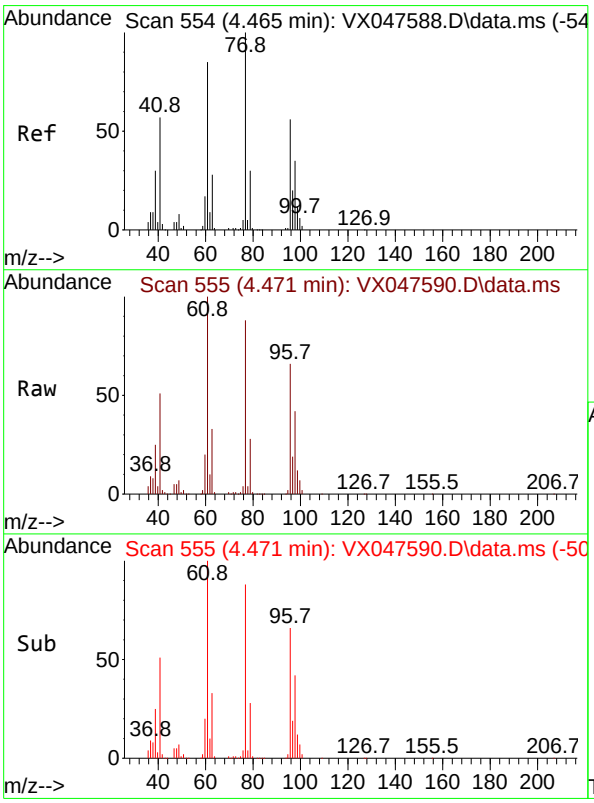
Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

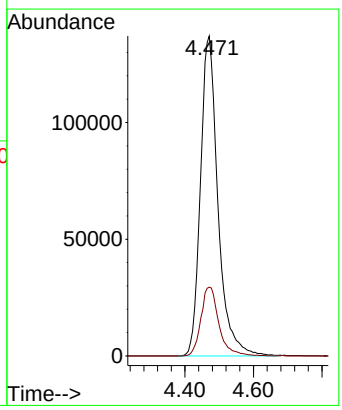
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

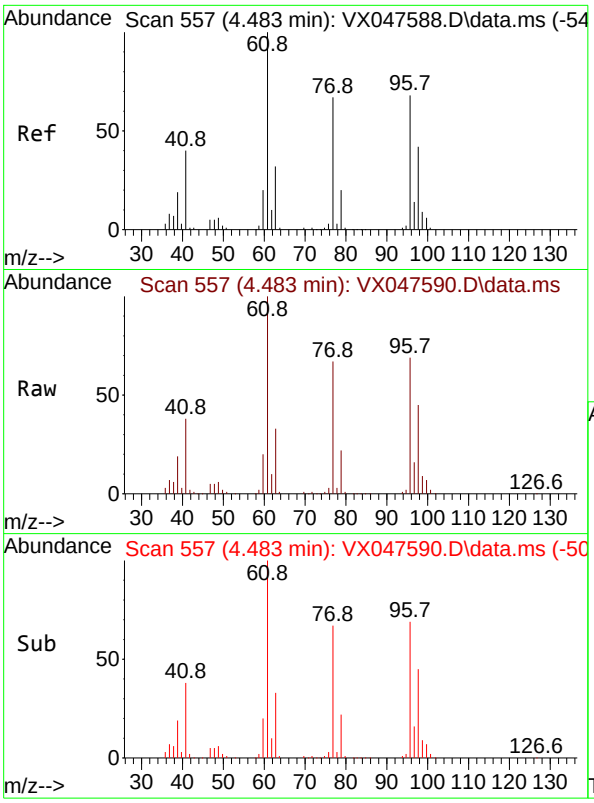


#26
2,2-Dichloropropane
Concen: 151.414 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 77 Resp: 486890

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.9	32.7

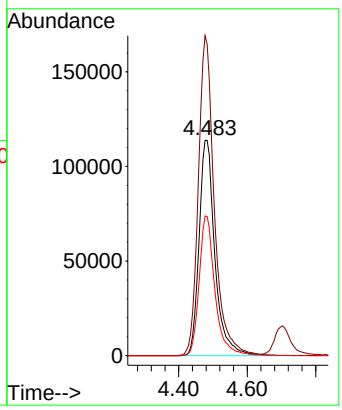




#27
cis-1,2-Dichloroethene
Concen: 152.638 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 36626

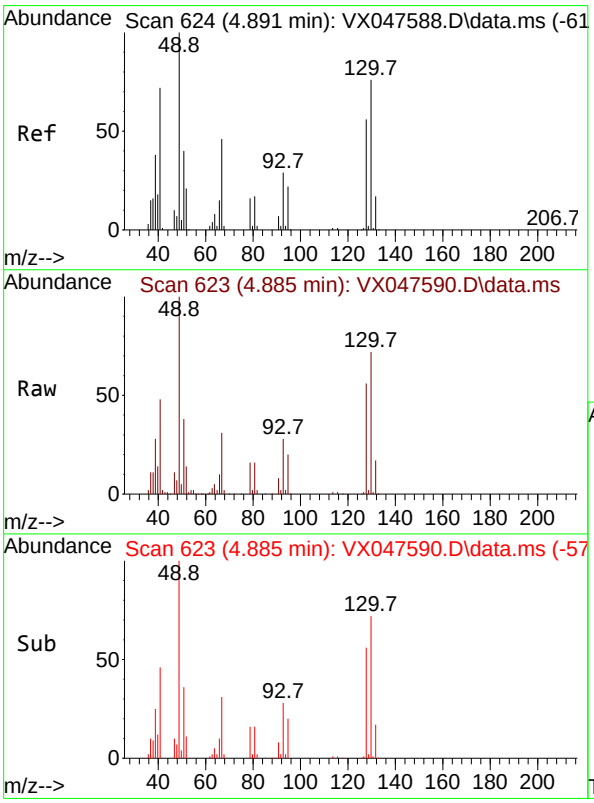
Ion	Ratio	Lower	Upper
96	100		
61	149.8	0.0	303.2
98	64.6	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

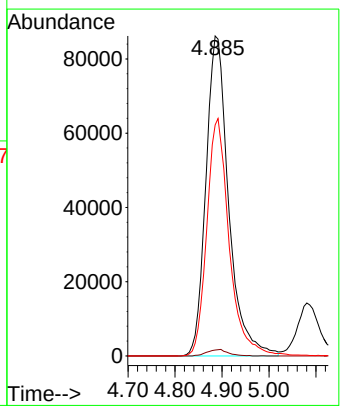
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

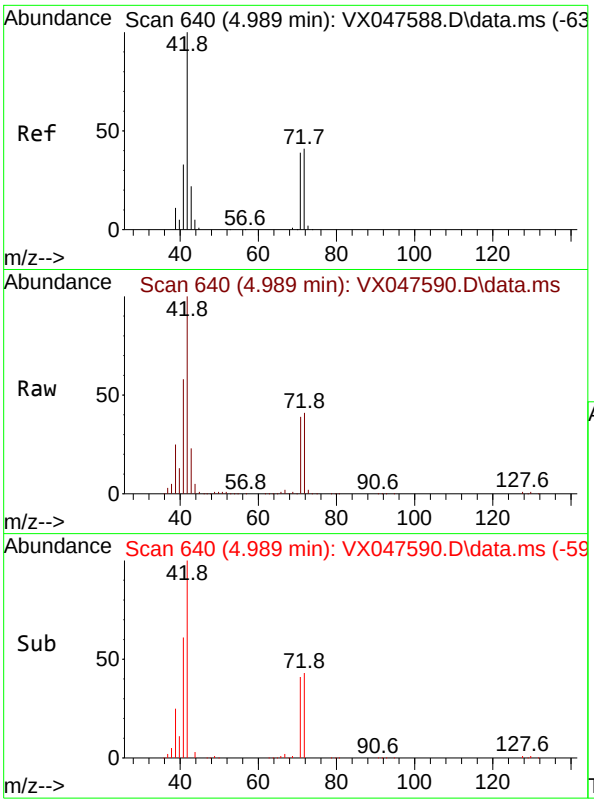


#28
Bromochloromethane
Concen: 171.451 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 49 Resp: 289548

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	73.2	57.8	86.8





#29
Tetrahydrofuran
Concen: 774.811 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

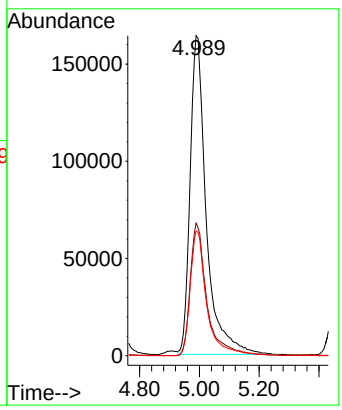
Tgt Ion: 42 Resp: 61637

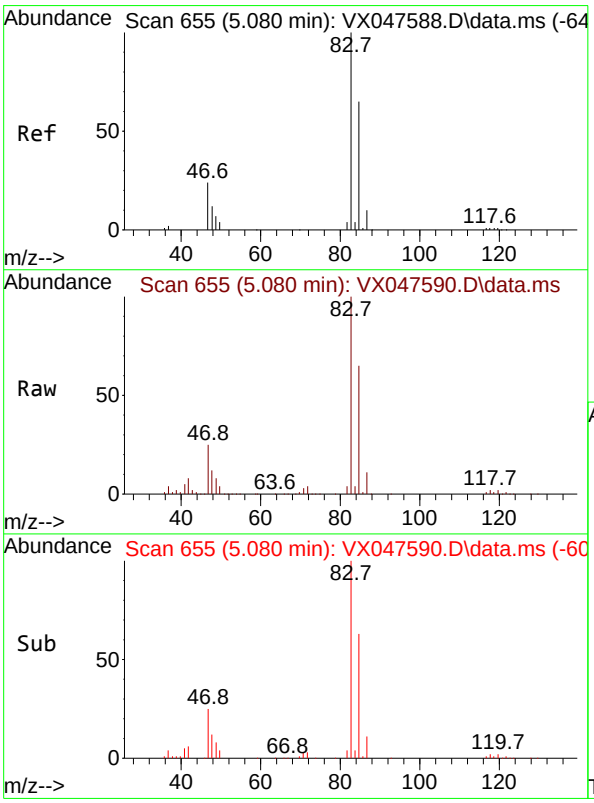
Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.2	51.2
71	39.9	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

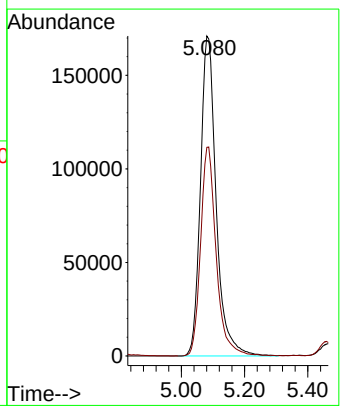


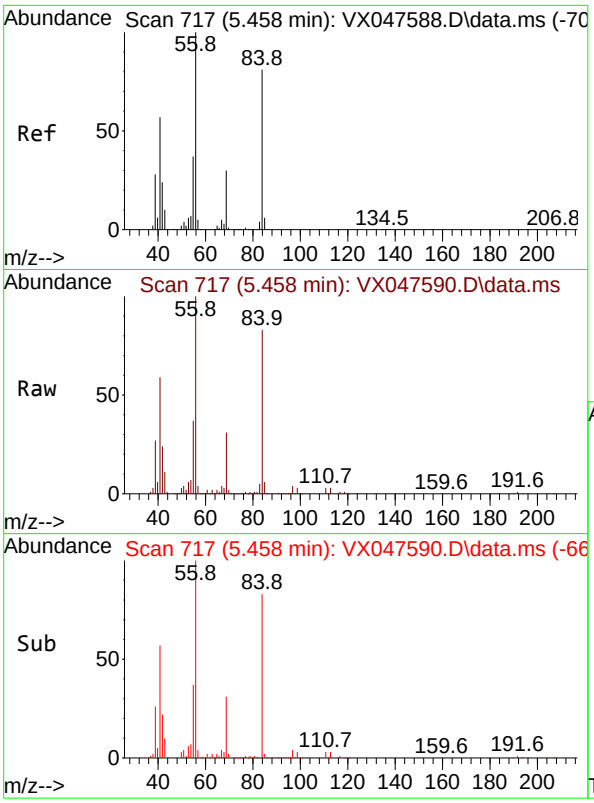


#30
Chloroform
Concen: 151.367 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 591709

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.6

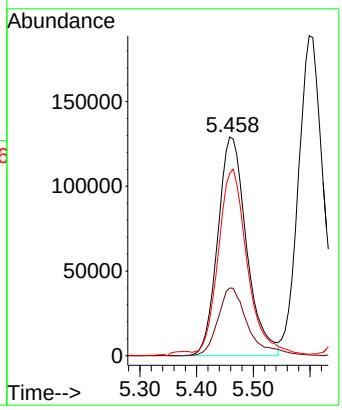




#31
Cyclohexane
Concen: 141.570 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 56 Resp: 45611

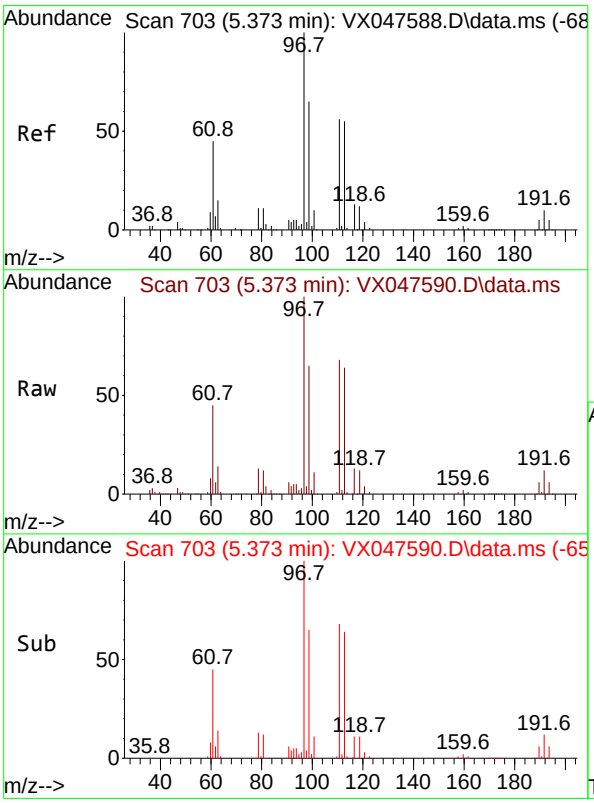
Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	81.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

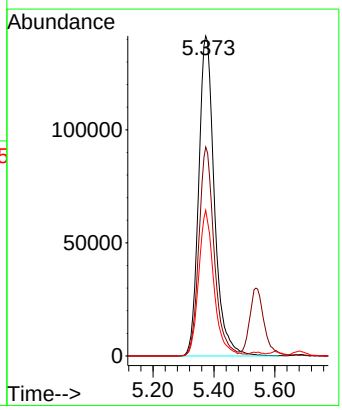
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

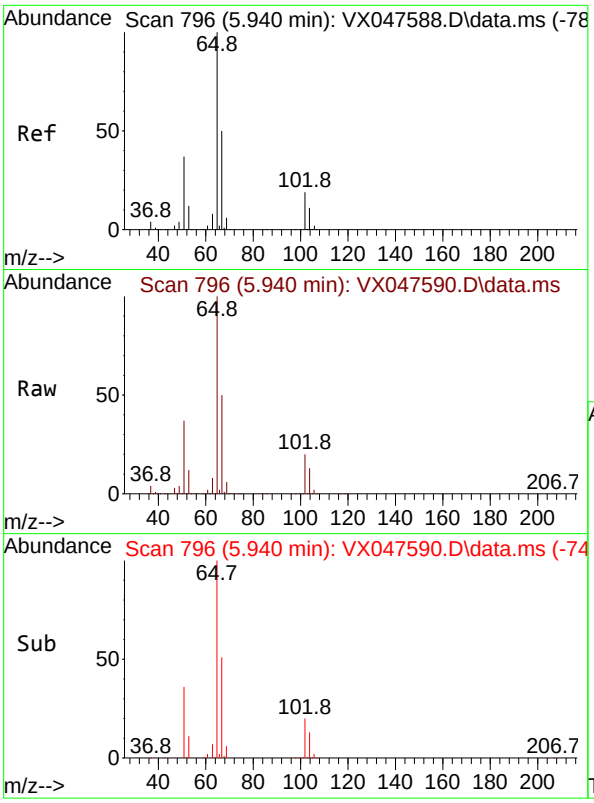


#32
1,1,1-Trichloroethane
Concen: 152.802 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 97 Resp: 506654

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.2	35.8	53.8

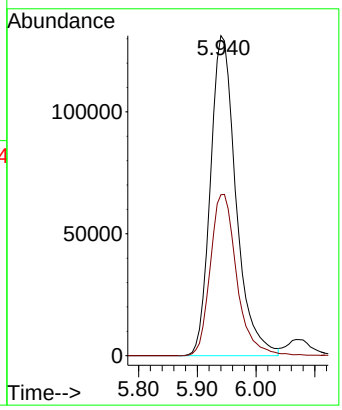




#33
1,2-Dichloroethane-d4
Concen: 162.673 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 65 Resp: 39662

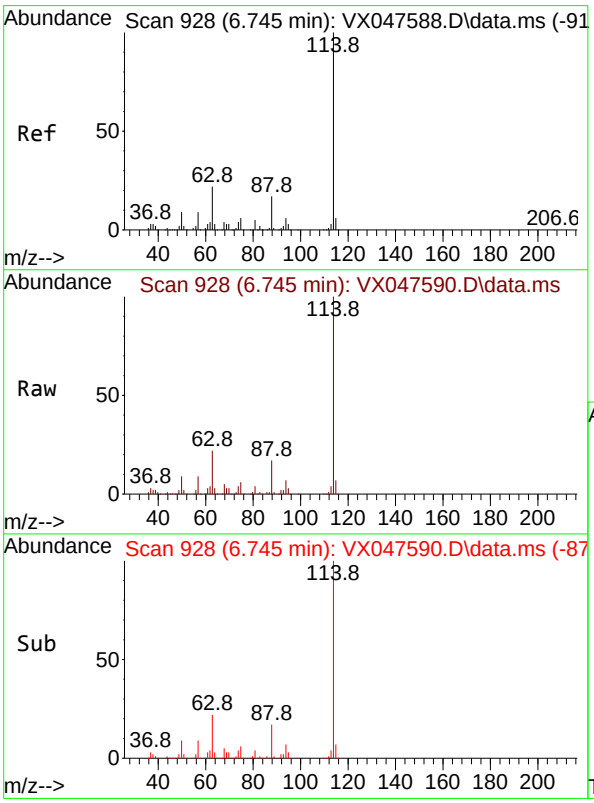
Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

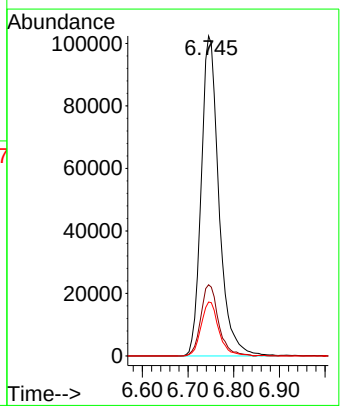
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

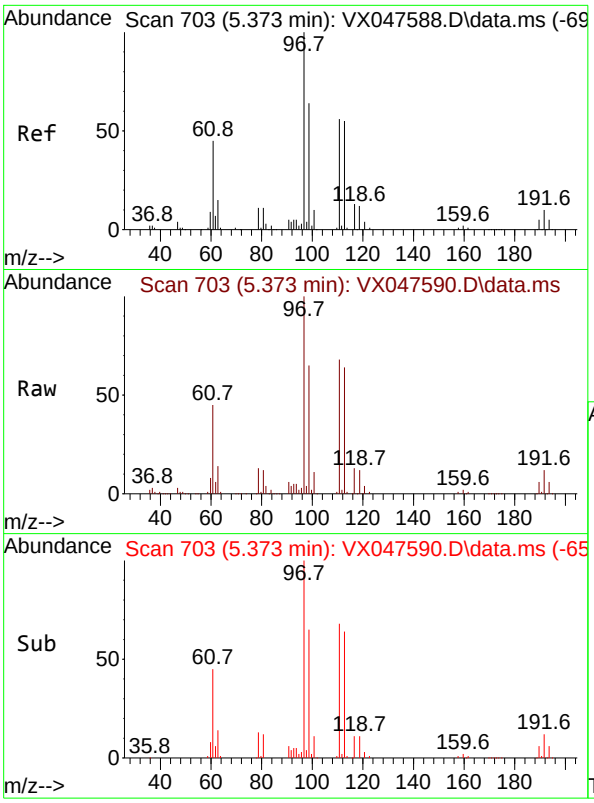


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:114 Resp: 274804

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

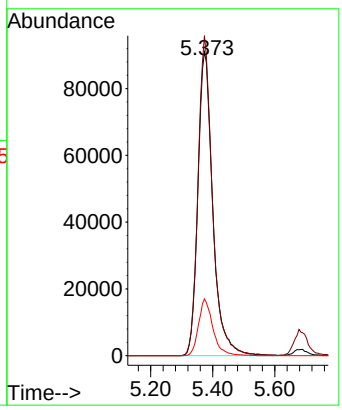




#35
Dibromofluoromethane
Concen: 164.802 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:113 Resp: 30372

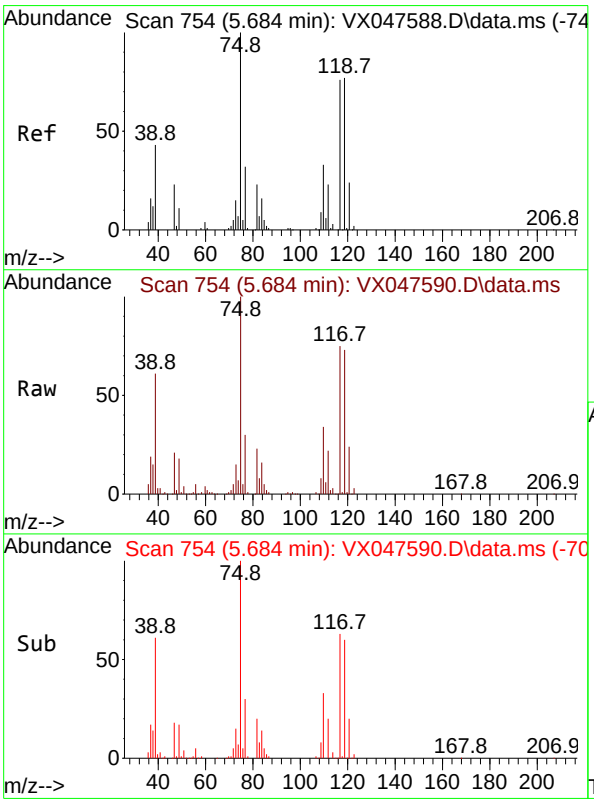
Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.1	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

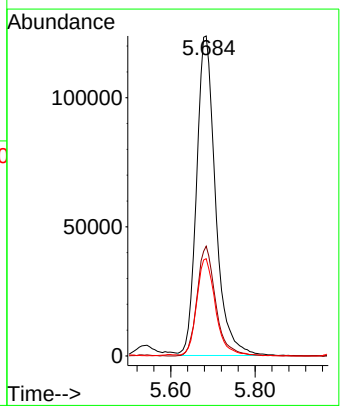
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

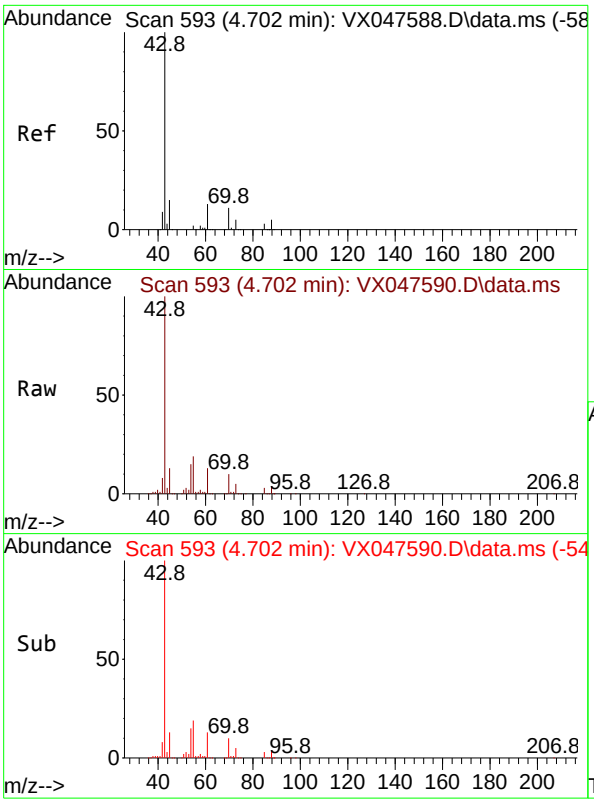


#36
1,1-Dichloropropene
Concen: 143.556 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 386601

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	30.6	24.3	36.5

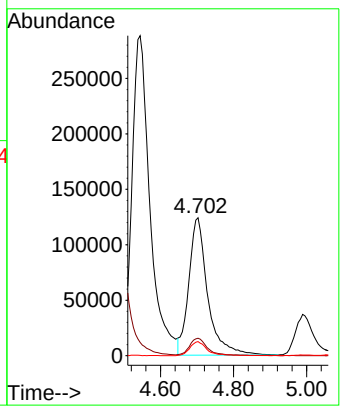




#37
Ethyl Acetate
Concen: 154.141 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 44446

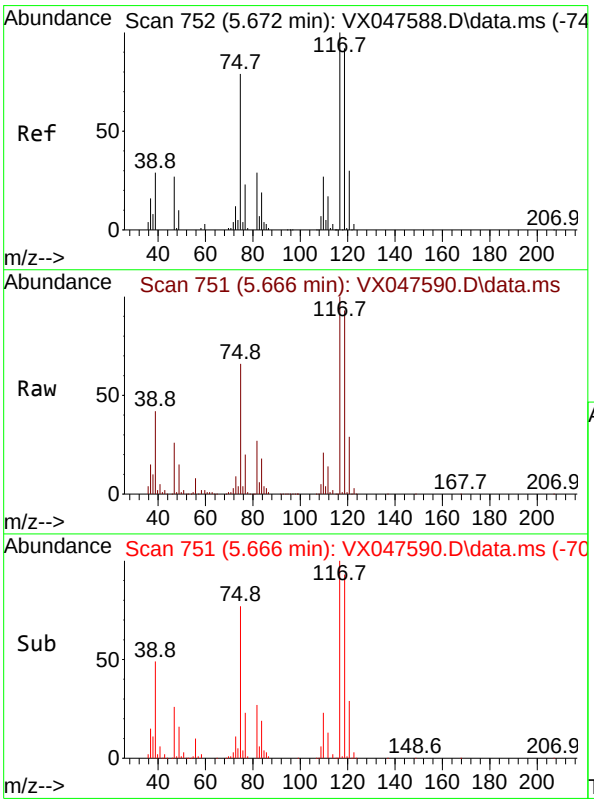
Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.8	14.8
70	9.5	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

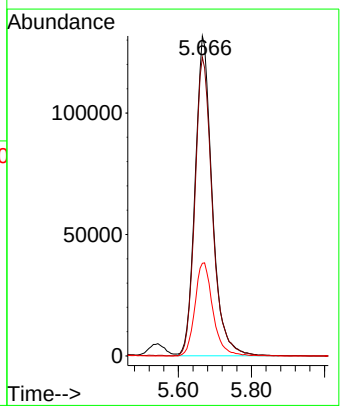
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

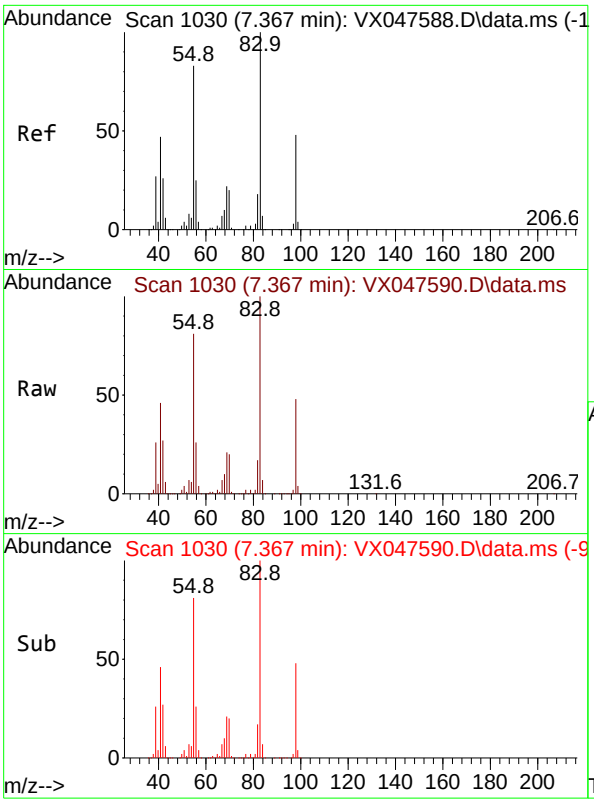


#38
Carbon Tetrachloride
Concen: 146.021 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 427263

Ion	Ratio	Lower	Upper
117	100		
119	93.3	73.4	110.2
121	29.0	23.8	35.6





#39
Methylcyclohexane
Concen: 149.395 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

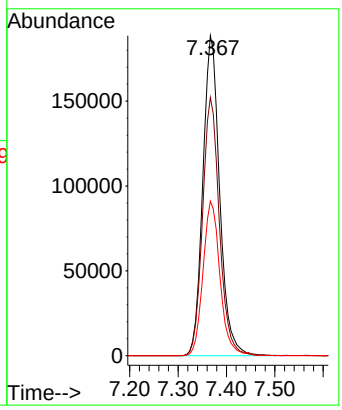
Tgt Ion: 83 Resp: 45669

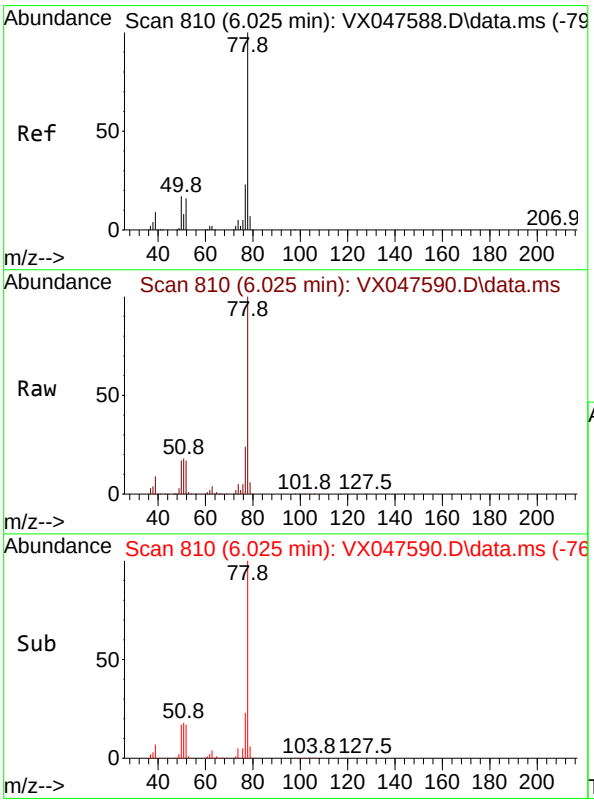
Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.3	38.1	57.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

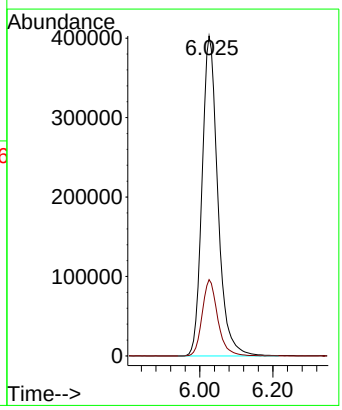


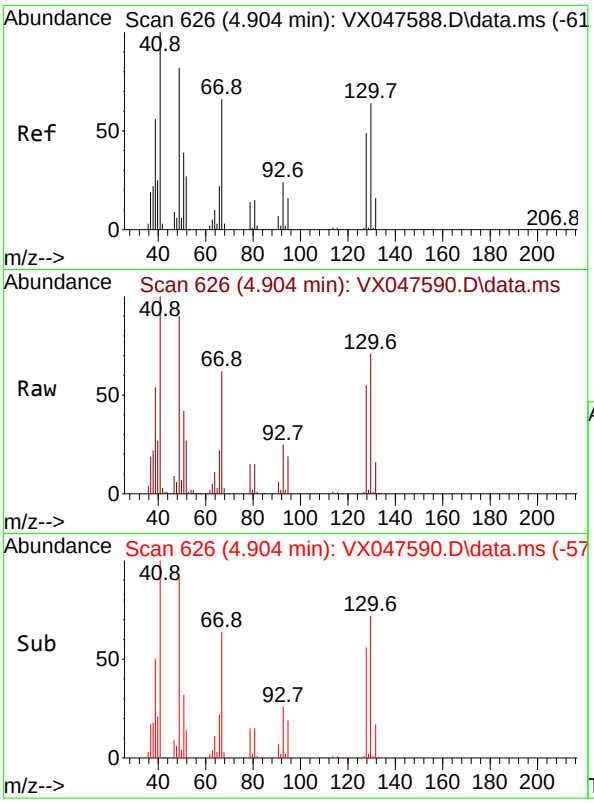


#40
Benzene
Concen: 147.057 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 78 Resp: 1202846

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2

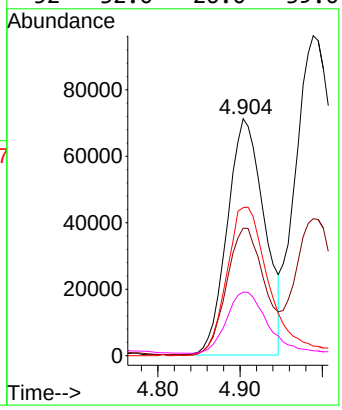




#41
Methacrylonitrile
Concen: 149.951 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 22321

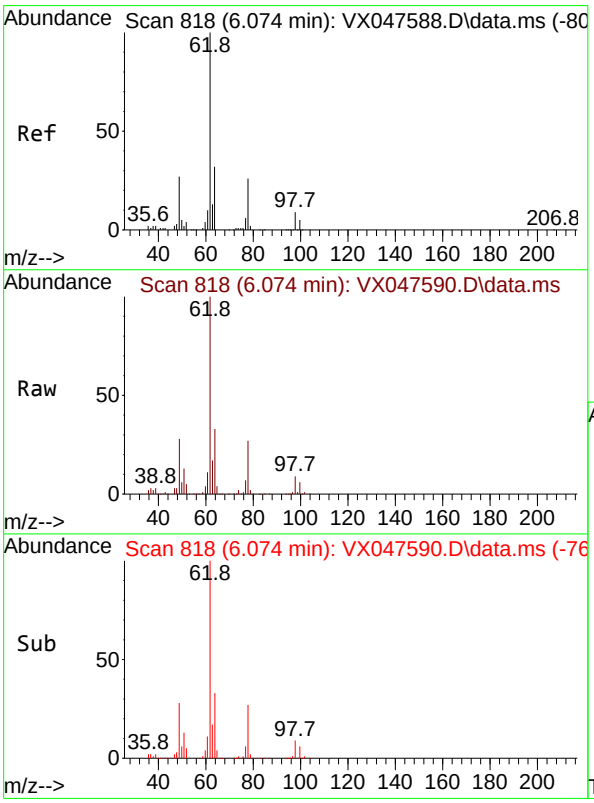
Ion	Ratio	Lower	Upper
41	100		
39	54.5	43.3	64.9
67	74.6	58.6	87.8
52	32.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

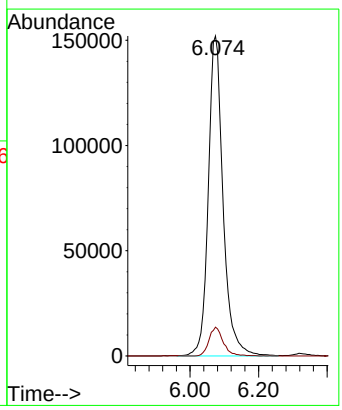
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

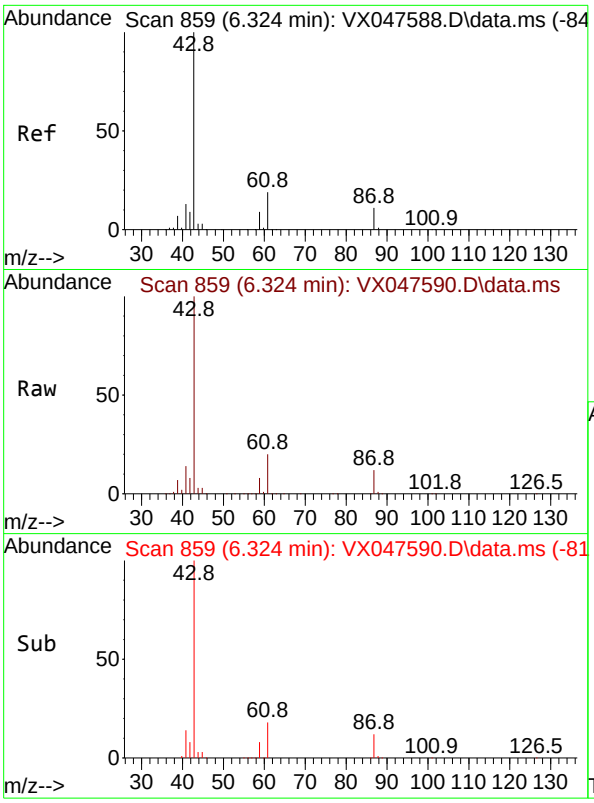


#42
1,2-Dichloroethane
Concen: 146.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 455978

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

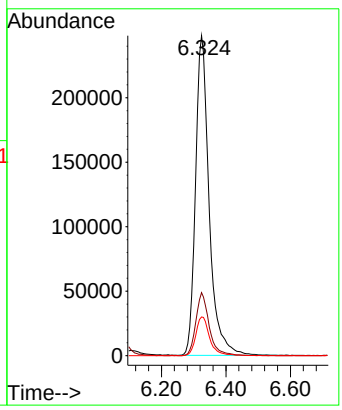




#43
Isopropyl Acetate
Concen: 153.283 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 72488

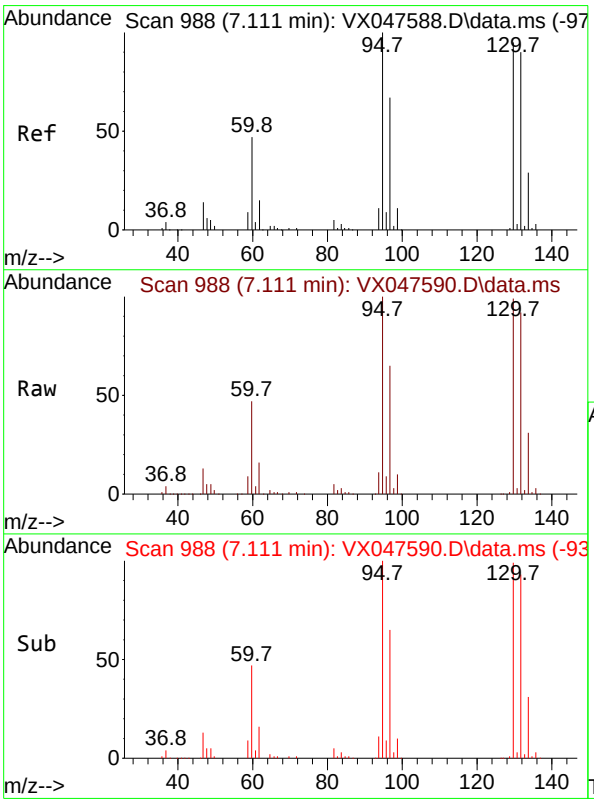
Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.3	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

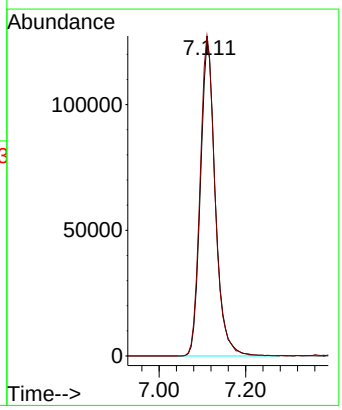
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

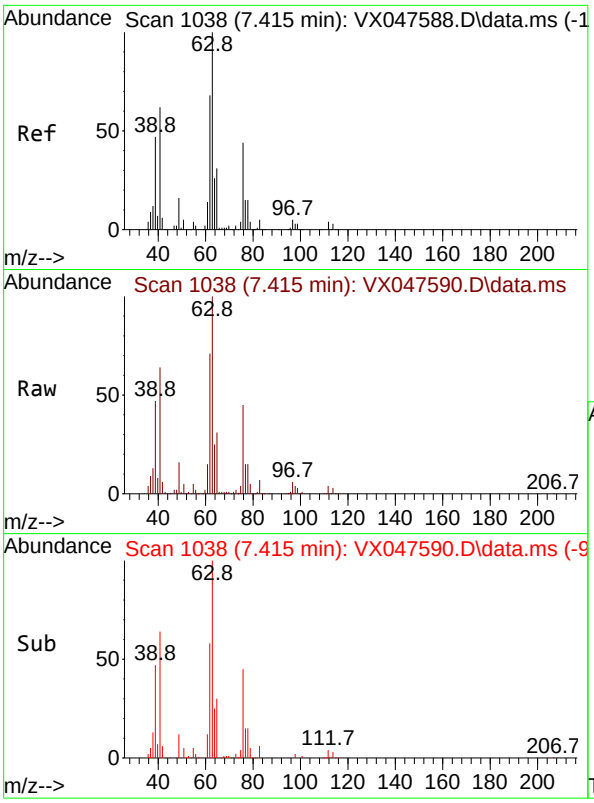


#44
Trichloroethene
Concen: 151.542 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:130 Resp: 299673

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	210.8

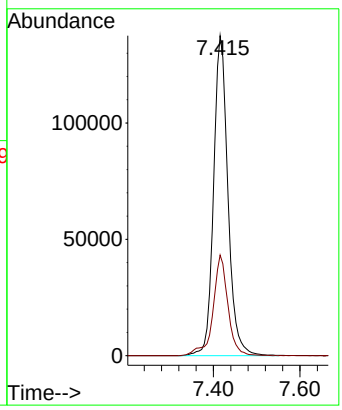




#45
1,2-Dichloropropane
Concen: 151.219 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 31672

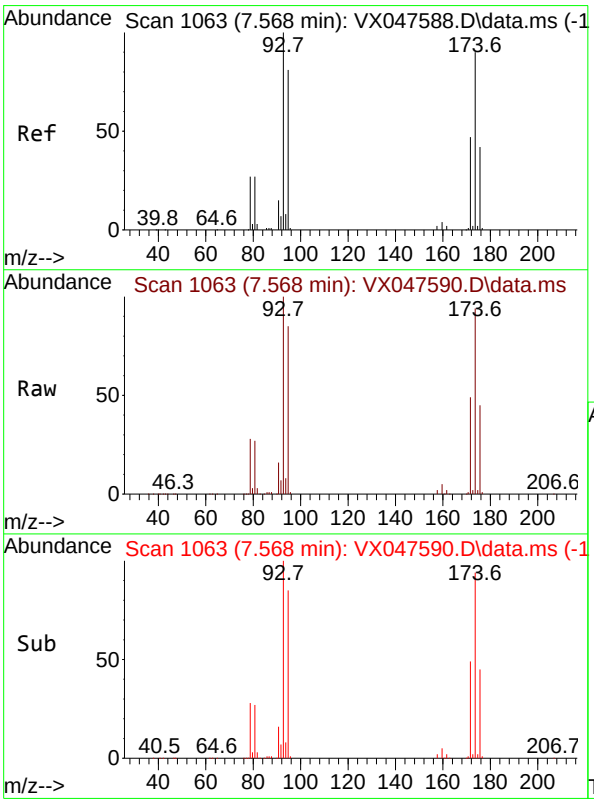
Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

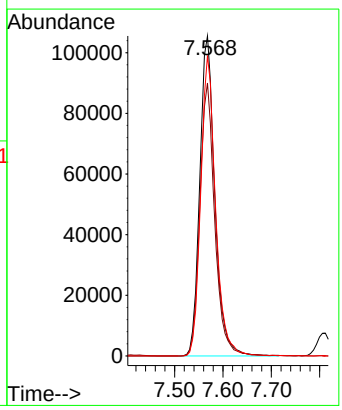
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

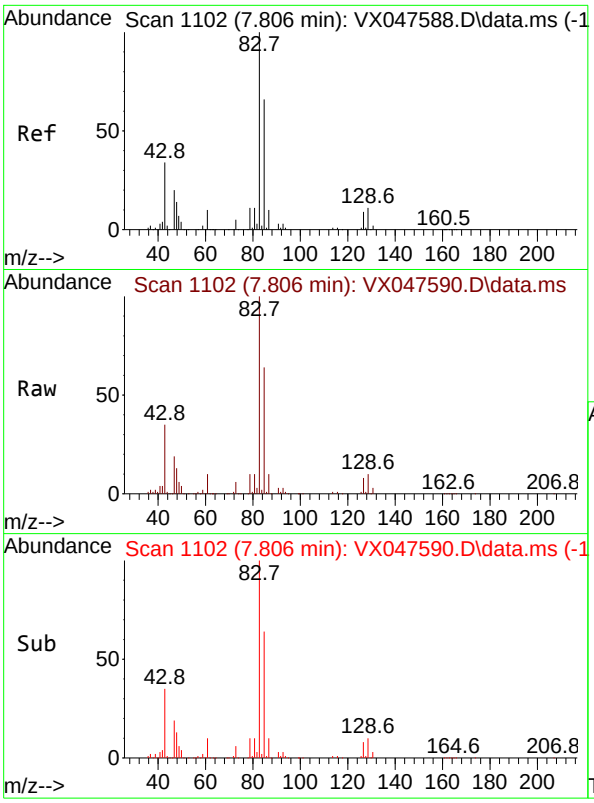


#46
Dibromomethane
Concen: 149.954 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 93 Resp: 228550

Ion	Ratio	Lower	Upper
93	100		
95	84.2	65.0	97.6
174	92.5	71.6	107.4

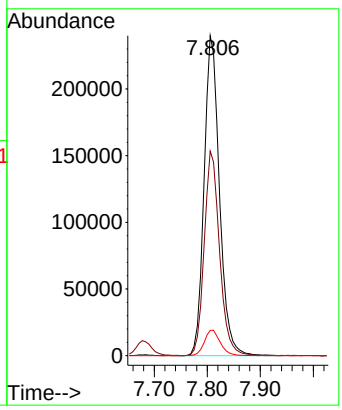




#47
Bromodichloromethane
Concen: 153.710 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 48343

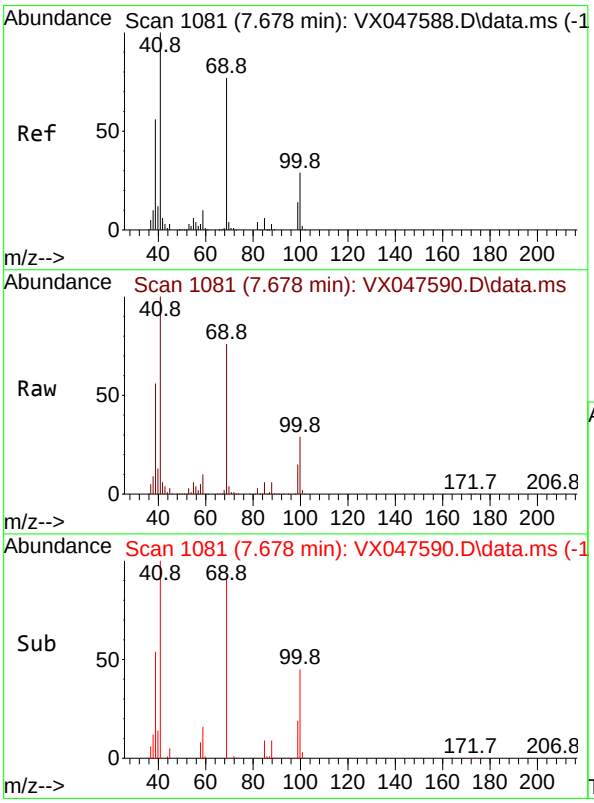
Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7
127	7.9	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

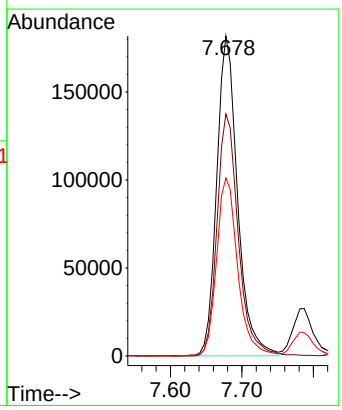
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

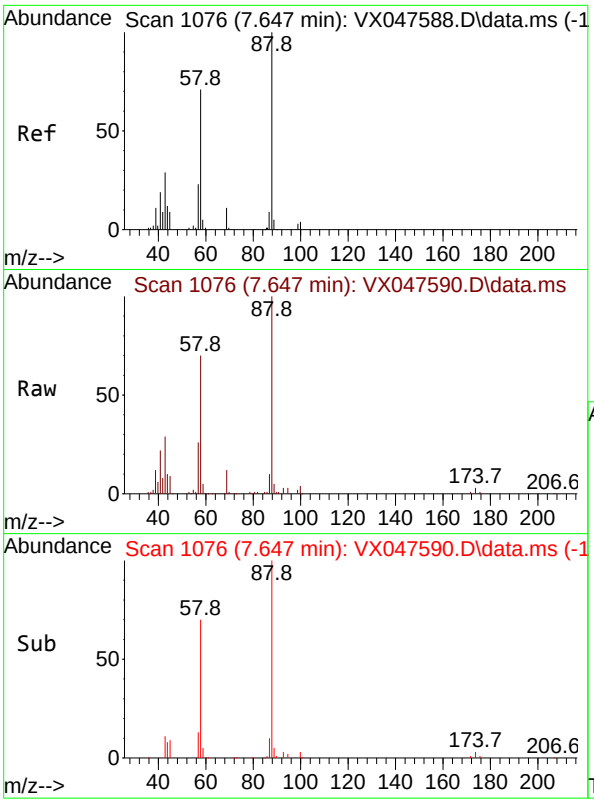


#48
Methyl methacrylate
Concen: 156.194 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 367931

Ion	Ratio	Lower	Upper
41	100		
69	77.2	61.4	92.2
39	56.5	45.8	68.6

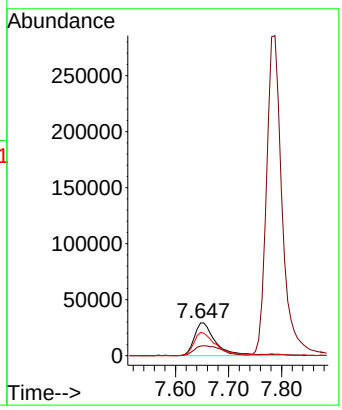




#49
1,4-Dioxane
Concen: 3475.565 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 88 Resp: 8273

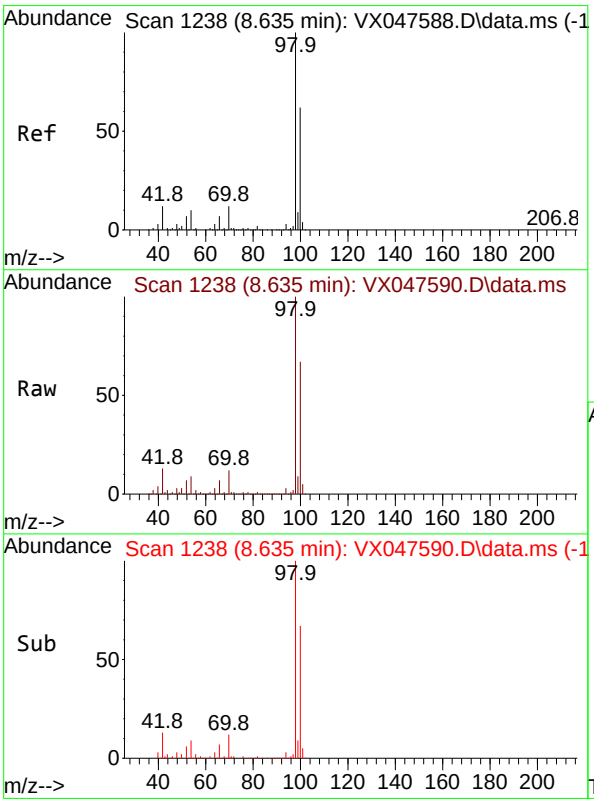
Ion	Ratio	Lower	Upper
88	100		
43	38.5	30.2	45.2
58	73.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

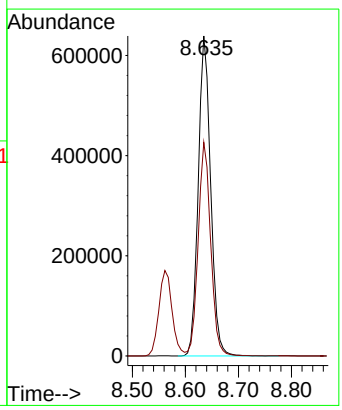
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

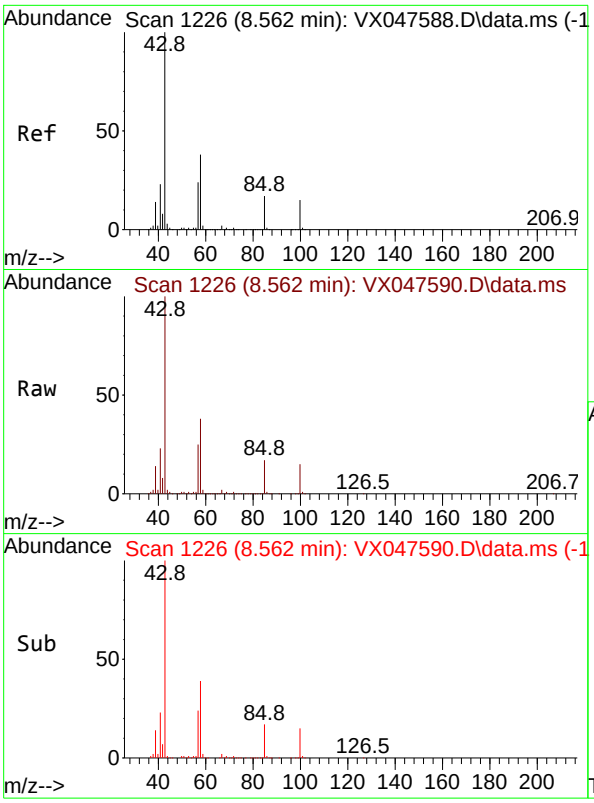


#50
Toluene-d8
Concen: 163.253 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 98 Resp: 1041079

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

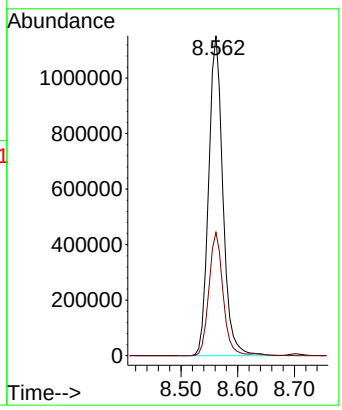




#51
4-Methyl-2-Pentanone
Concen: 765.849 ug/l
RT: 8.562 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 200806

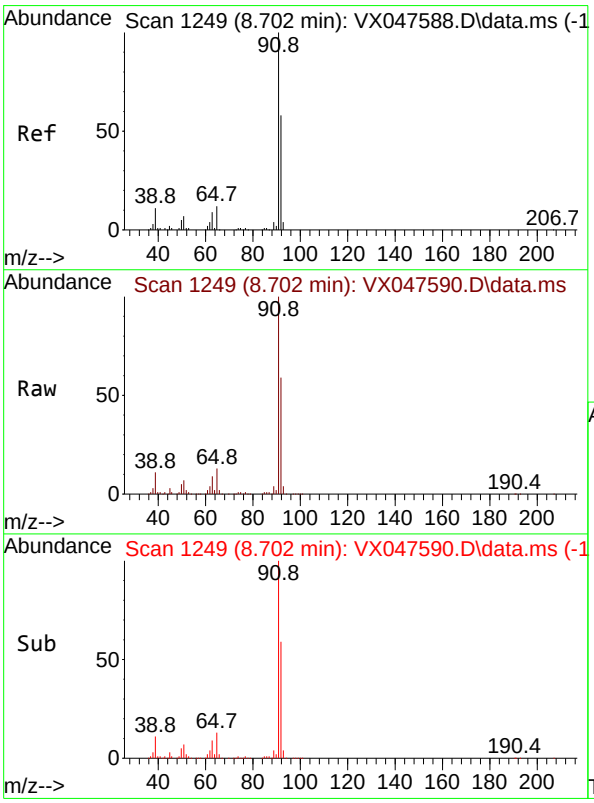
Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

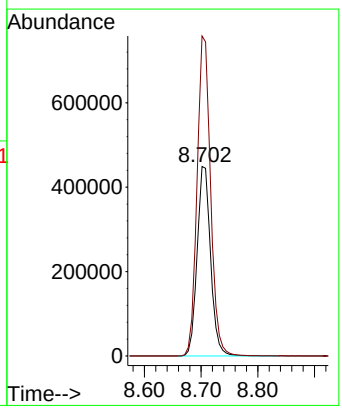
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

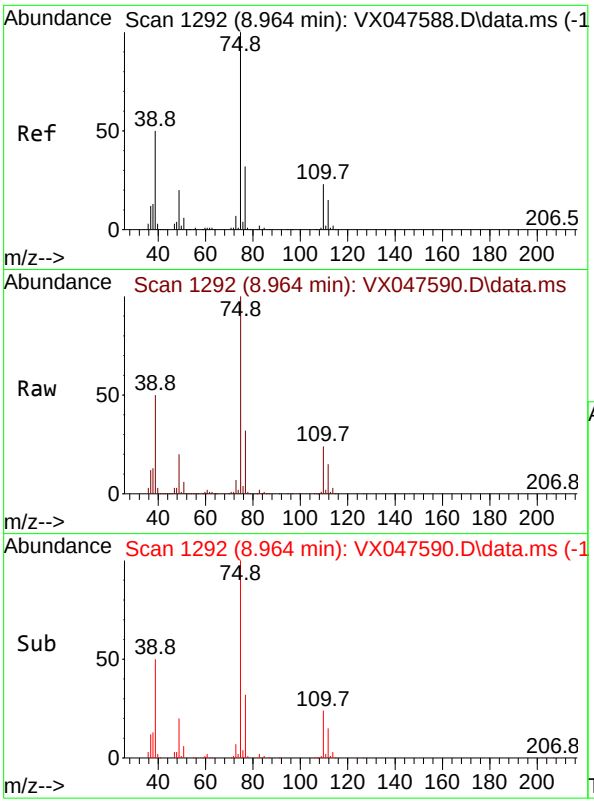


#52
Toluene
Concen: 146.712 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 92 Resp: 739332

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.1	205.7

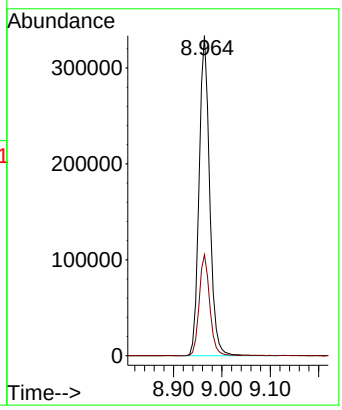




#53
t-1,3-Dichloropropene
Concen: 157.076 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 50391

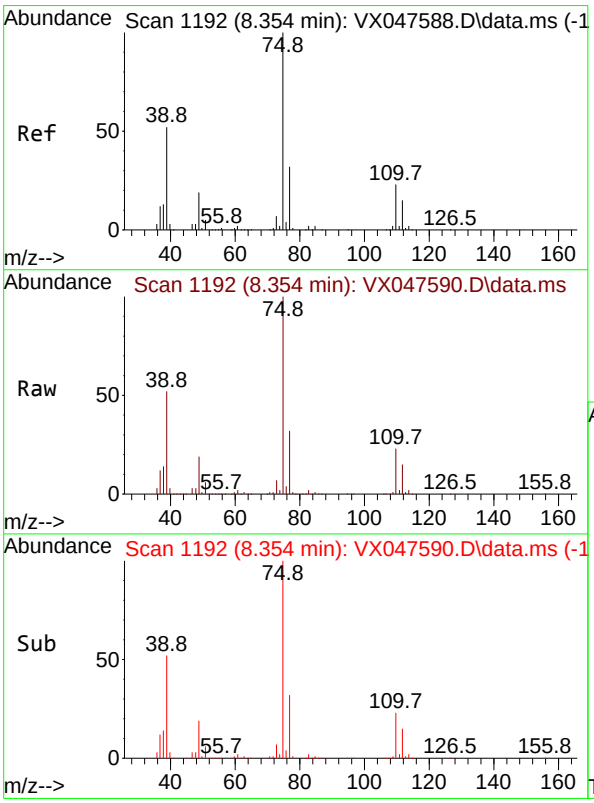
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

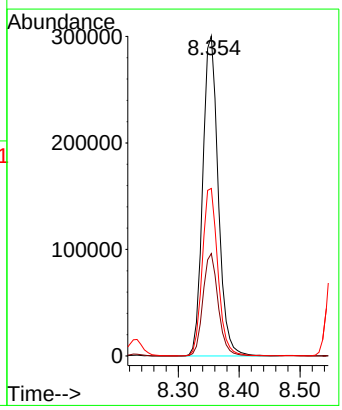
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

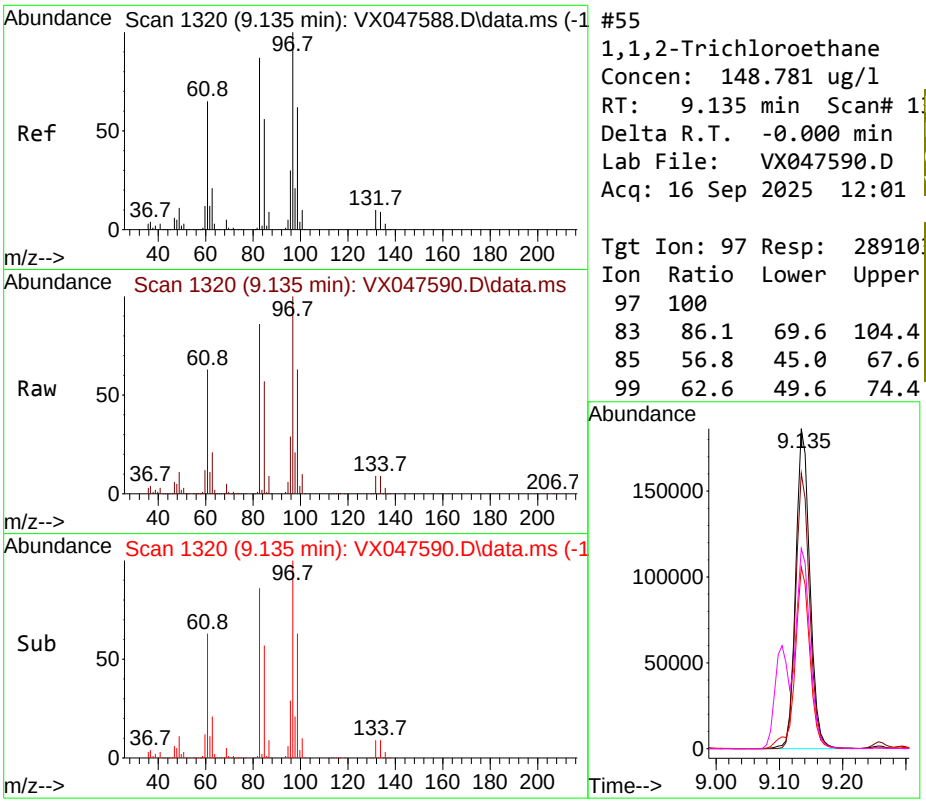


#54
cis-1,3-Dichloropropene
Concen: 154.732 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 530566

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.6
39	52.3	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 148.781 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

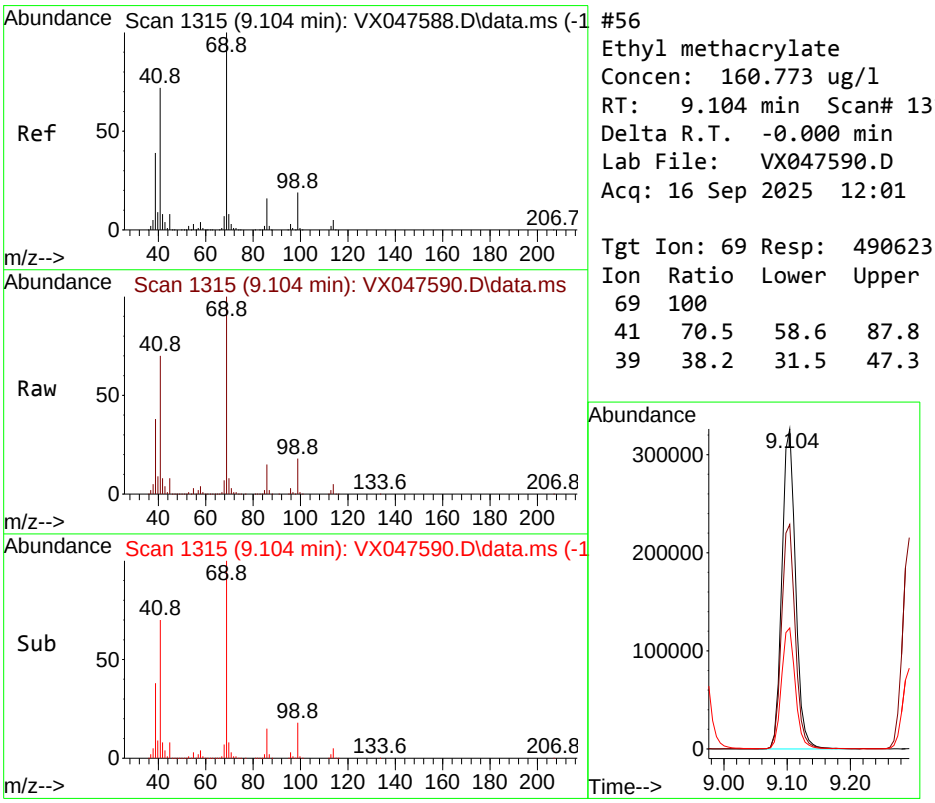
Tgt Ion: 97 Resp: 28910

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	56.8	45.0	67.6
99	62.6	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

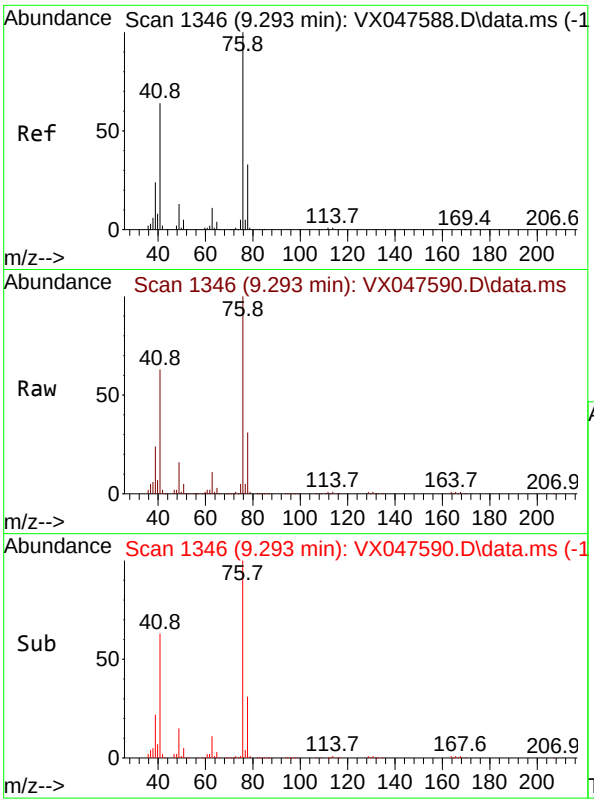
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#56
Ethyl methacrylate
Concen: 160.773 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 69 Resp: 490623

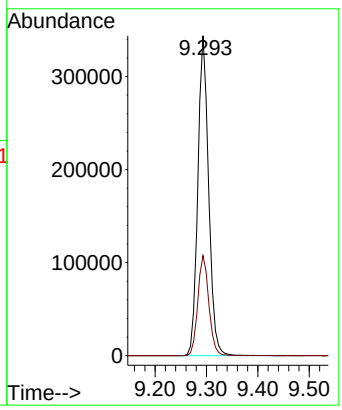
Ion	Ratio	Lower	Upper
69	100		
41	70.5	58.6	87.8
39	38.2	31.5	47.3



#57
1,3-Dichloropropane
Concen: 150.426 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 76 Resp: 50212

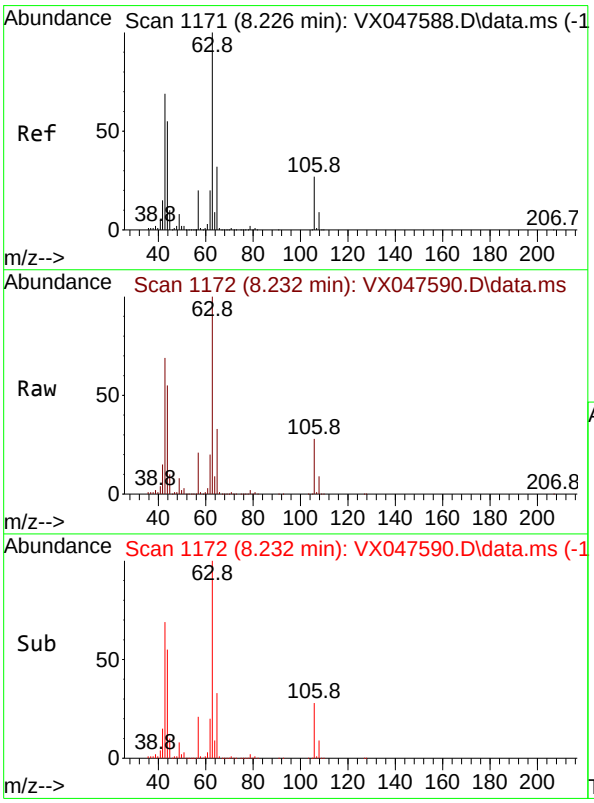
Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

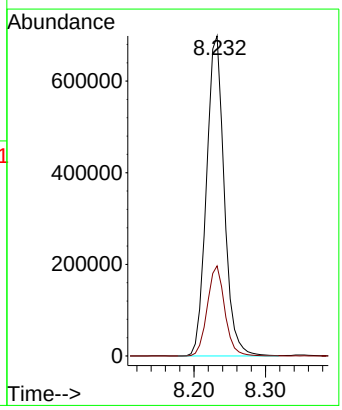
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

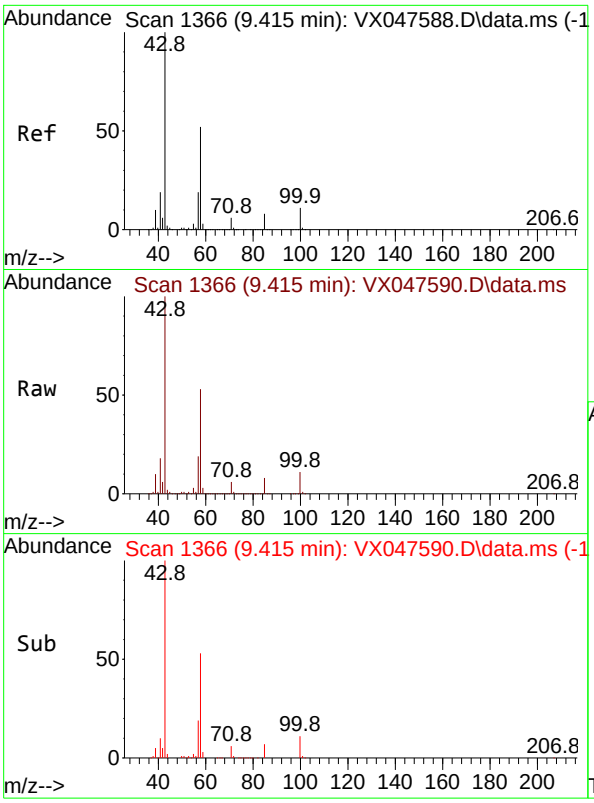


#58
2-Chloroethyl Vinyl ether
Concen: 749.661 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 1202206

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.9	32.9

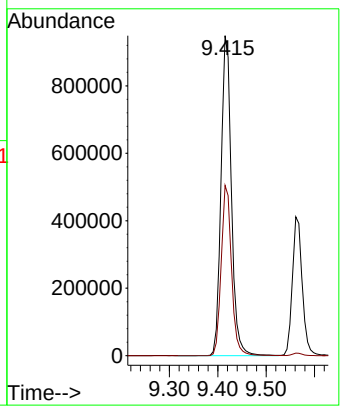




#59
2-Hexanone
Concen: 750.035 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 141241

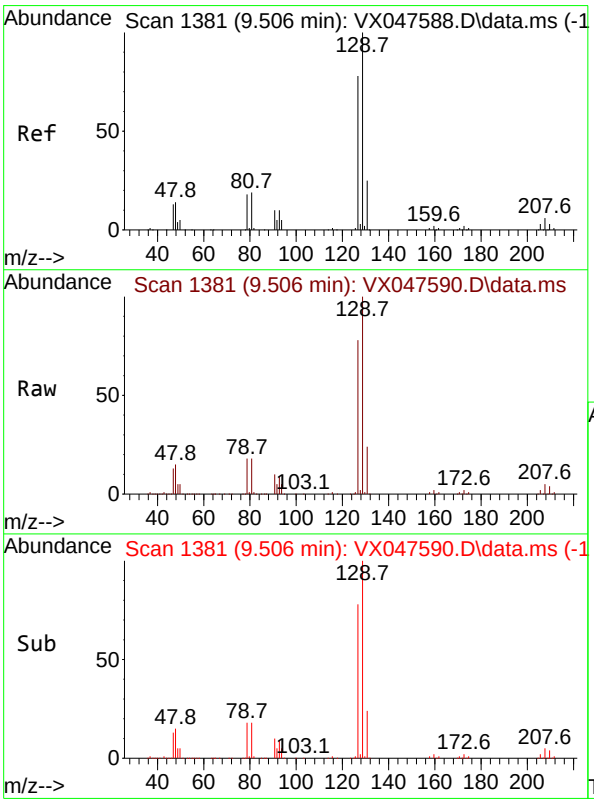
Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

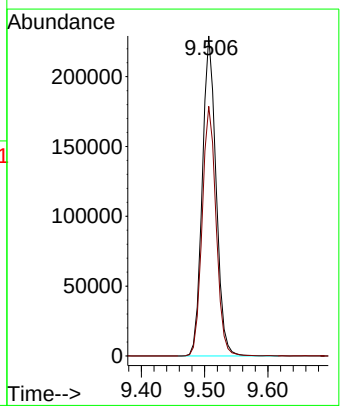
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

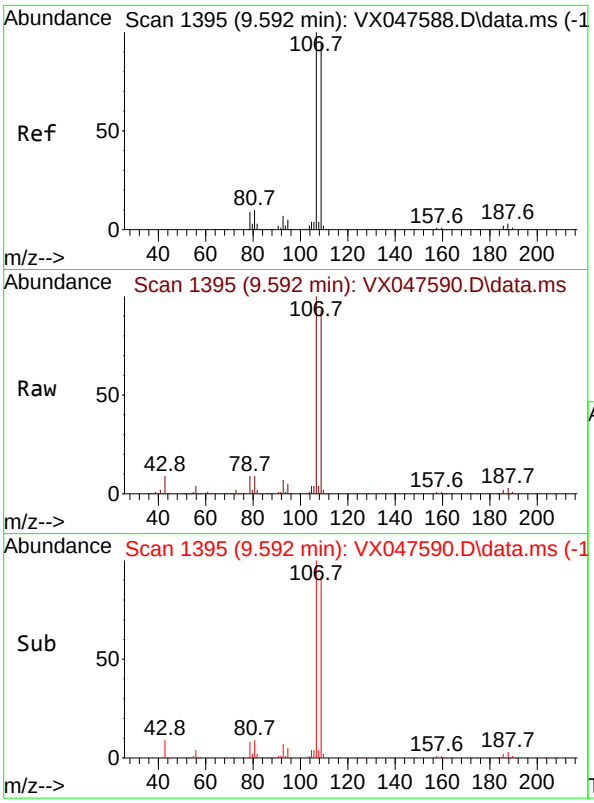


#60
Dibromochloromethane
Concen: 155.318 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:129 Resp: 347748

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.4	115.2

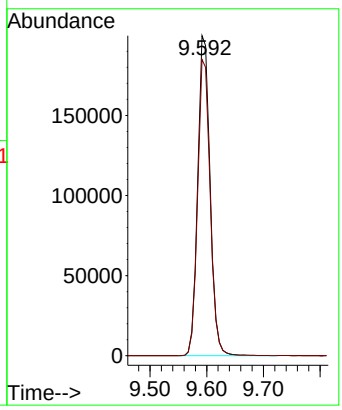




#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:107 Resp: 30271

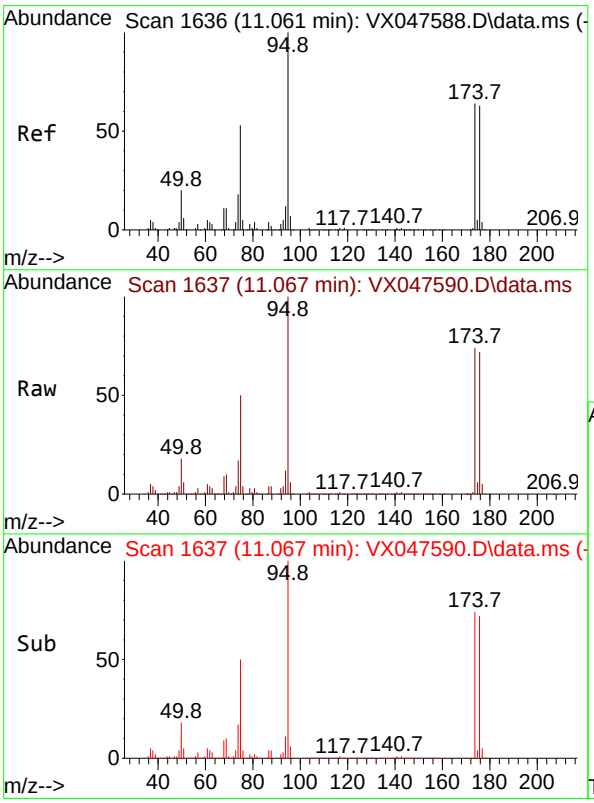
Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

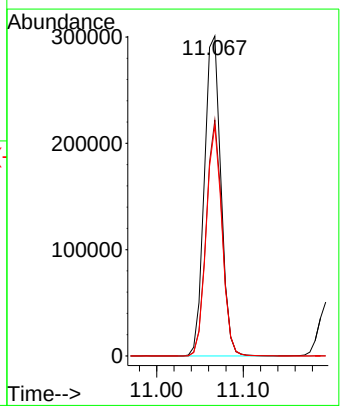
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

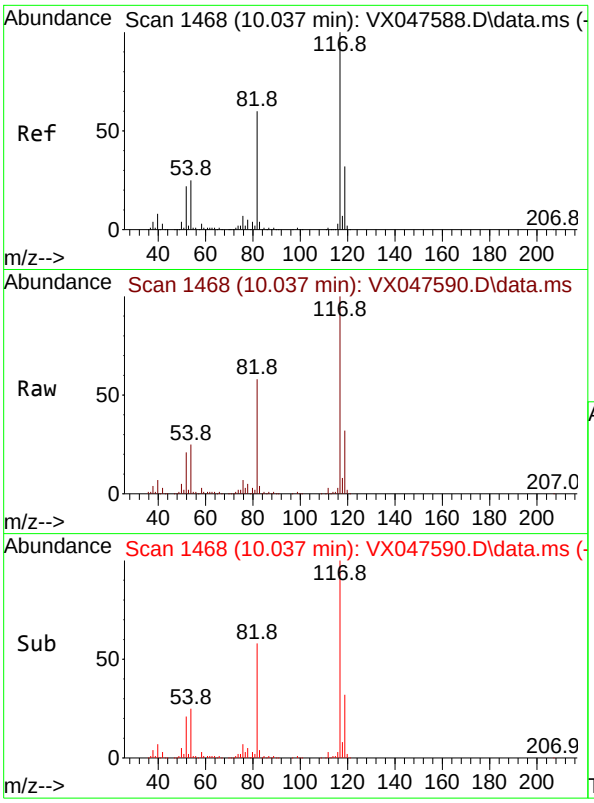


#62
4-Bromofluorobenzene
Concen: 165.020 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 95 Resp: 399386

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.6
176	68.5	0.0	138.4

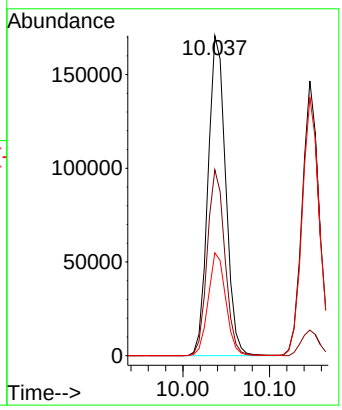




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 24181

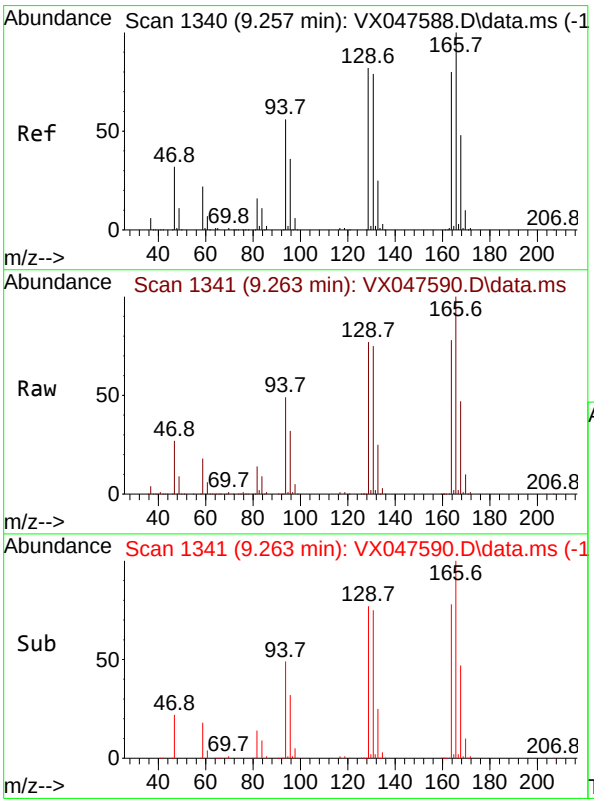
Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.2	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

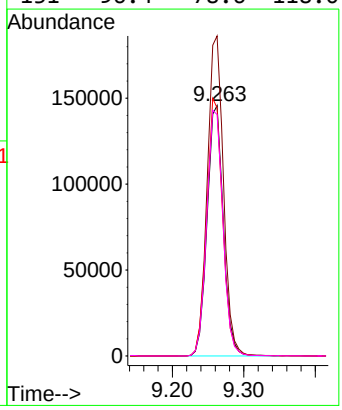
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

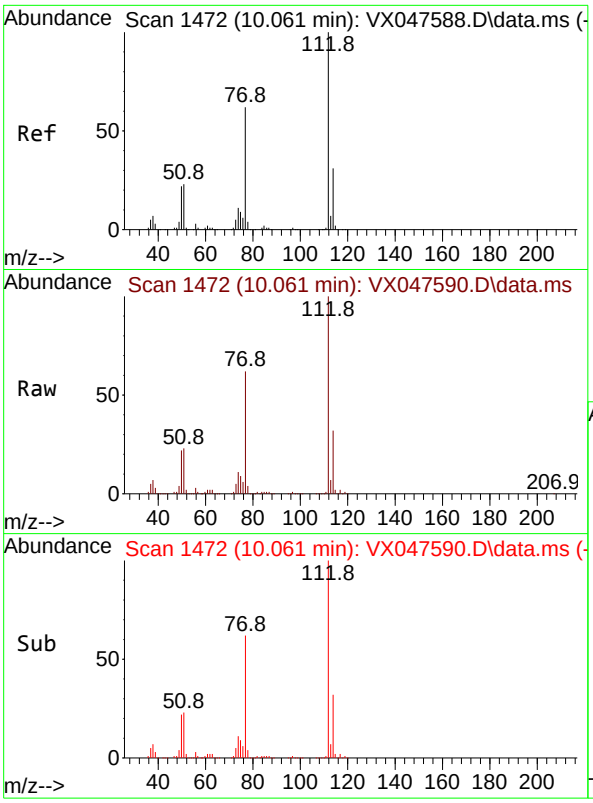


#64
Tetrachloroethene
Concen: 144.590 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:164 Resp: 227931

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.2	150.2
129	99.0	81.8	122.6
131	96.4	78.6	118.0

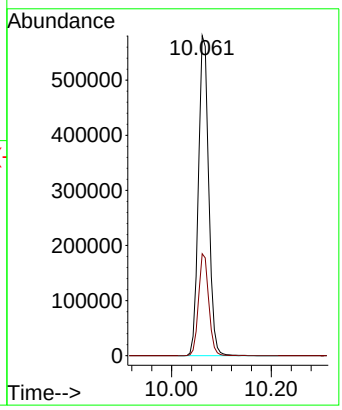




#65
Chlorobenzene
Concen: 150.763 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:112 Resp: 82823

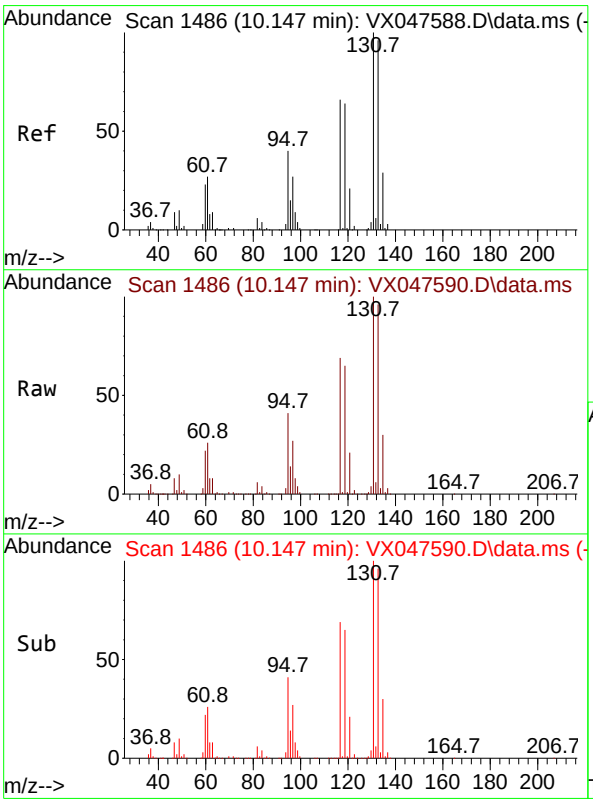
Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

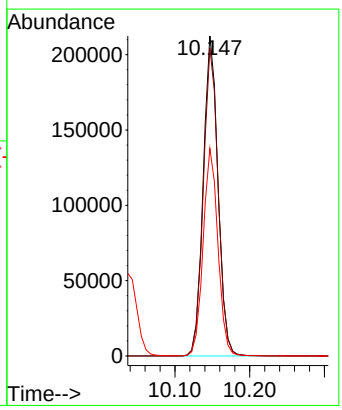
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

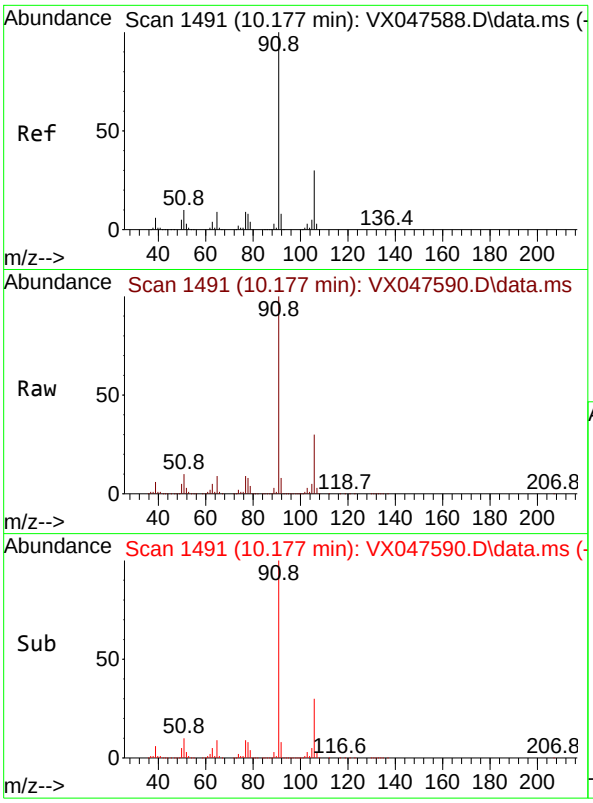


#66
1,1,1,2-Tetrachloroethane
Concen: 153.733 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:131 Resp: 291433

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.3	142.0
119	64.8	32.0	96.0

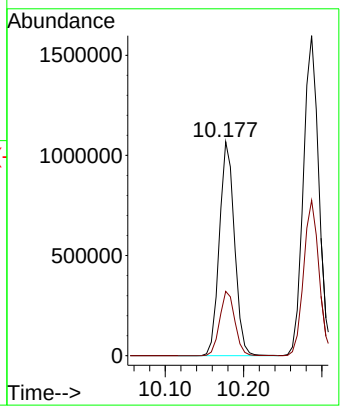




#67
Ethyl Benzene
Concen: 151.026 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 143155

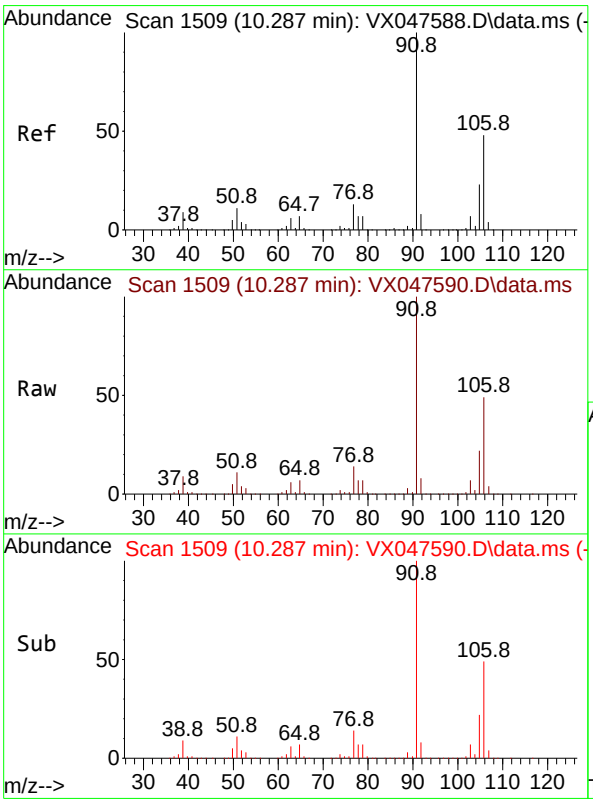
Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

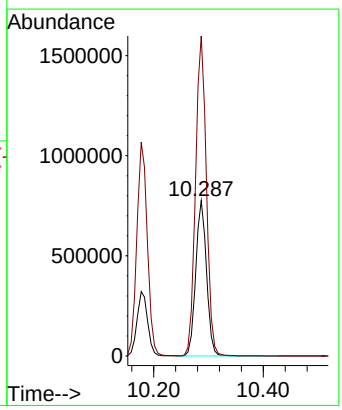
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

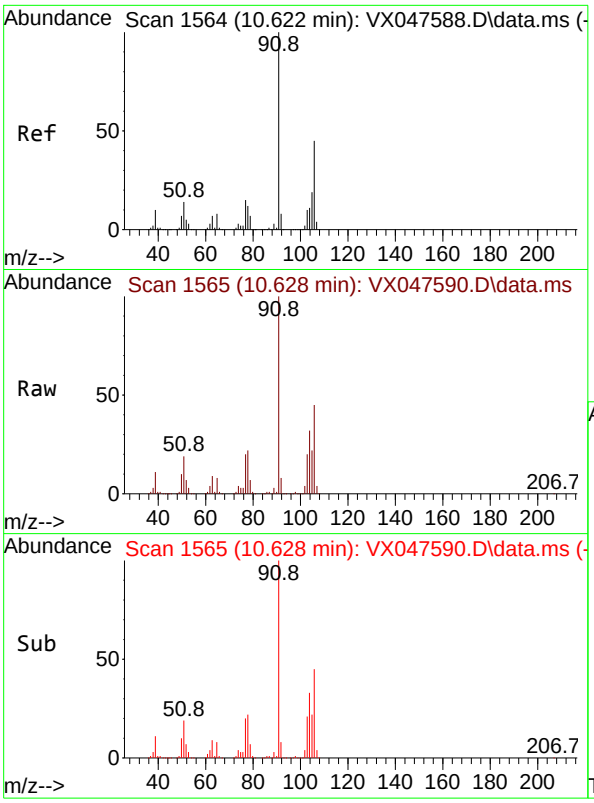


#68
m/p-Xylenes
Concen: 300.381 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 1059776

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.8	251.8

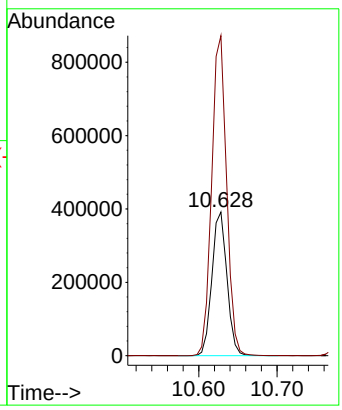




#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 52184

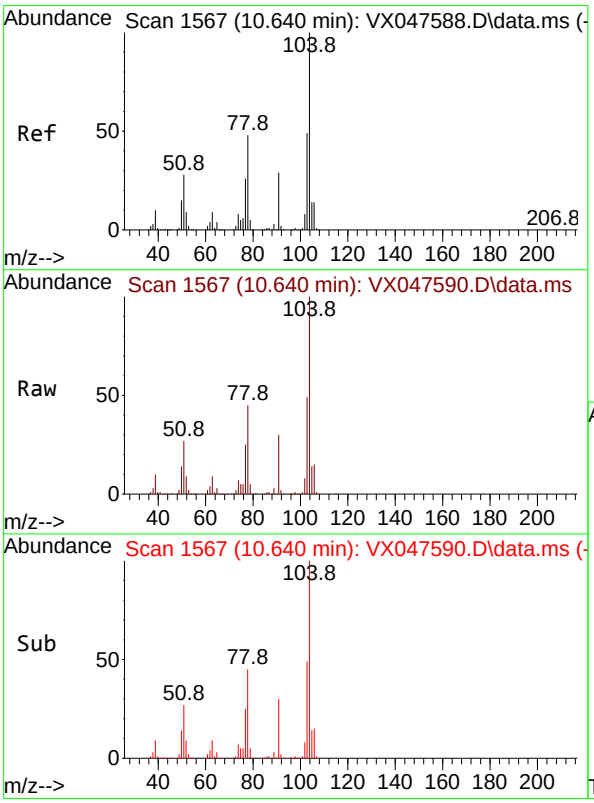
Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

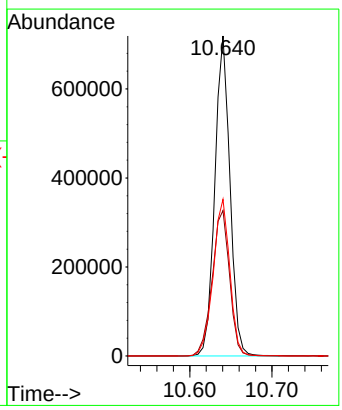
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

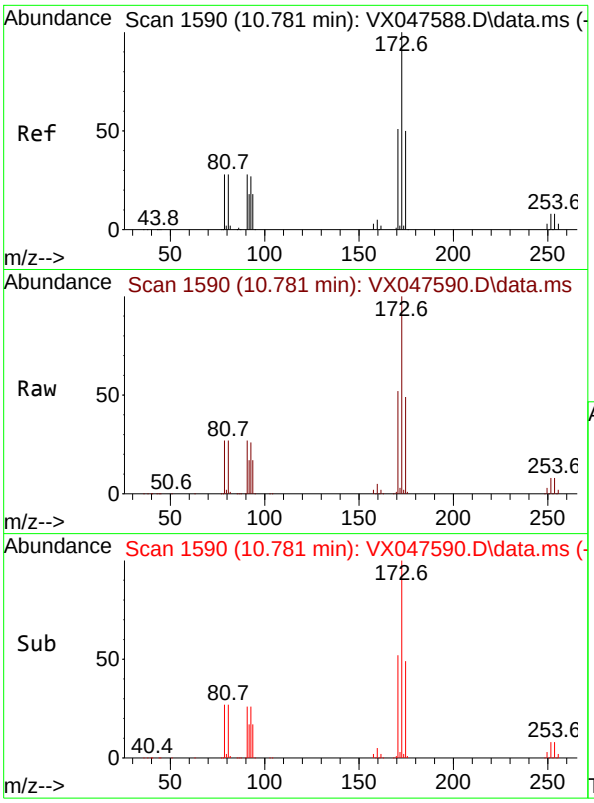


#70
Styrene
Concen: 153.449 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:104 Resp: 917532

Ion	Ratio	Lower	Upper
104	100		
78	52.4	43.1	64.7
103	54.0	43.1	64.7

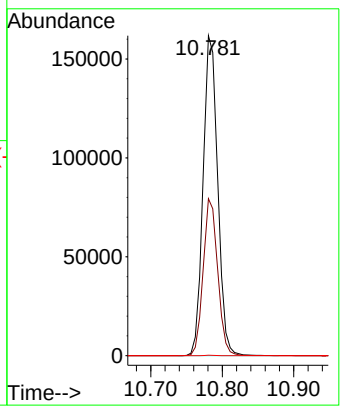




#71
Bromoform
Concen: 162.262 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:173 Resp: 22968

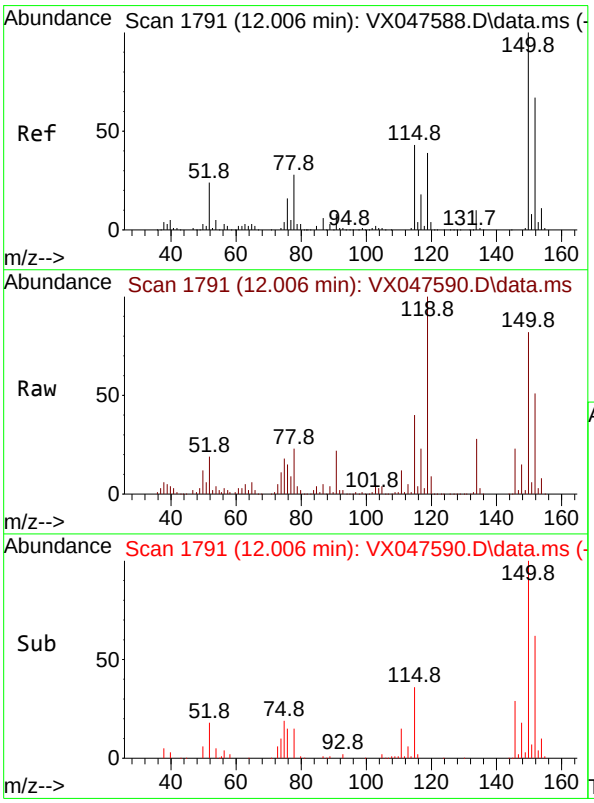
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

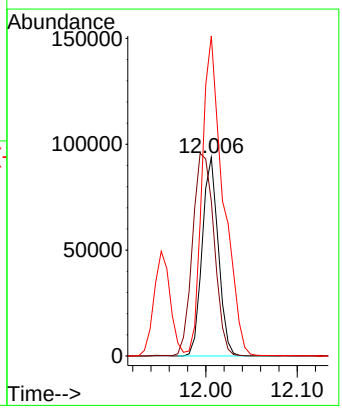
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

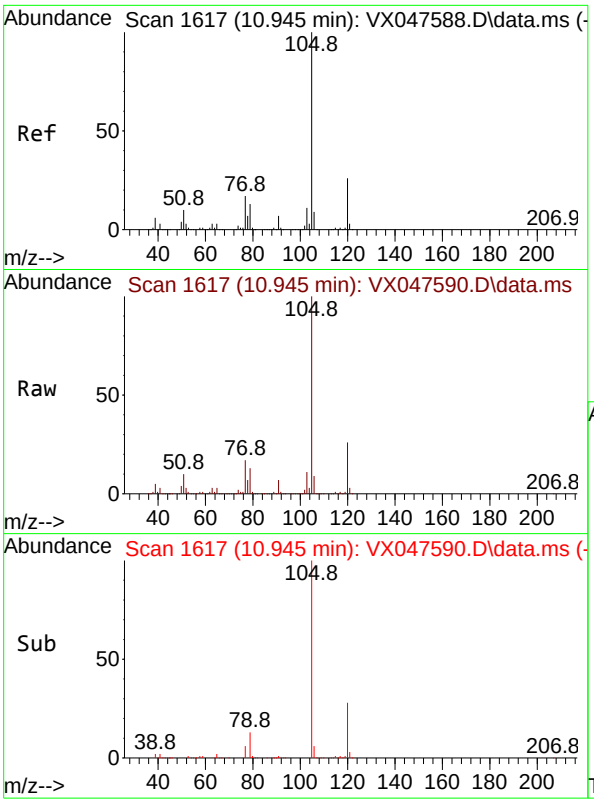


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:152 Resp: 114743

Ion	Ratio	Lower	Upper
152	100		
115	136.9	44.9	134.5#
150	212.9	0.0	352.0

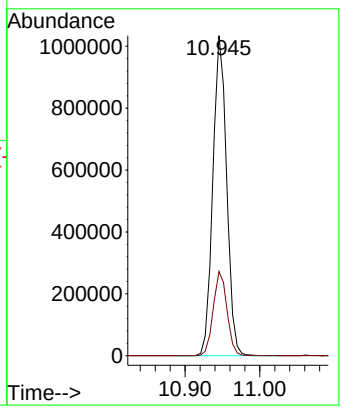




#73
Isopropylbenzene
Concen: 151.477 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 132140

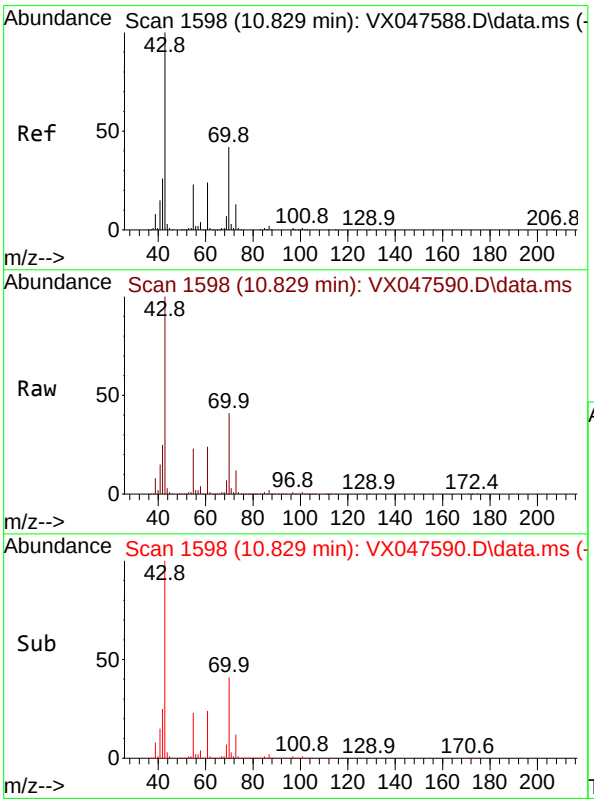
Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

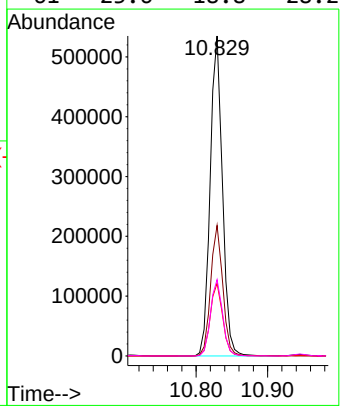
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

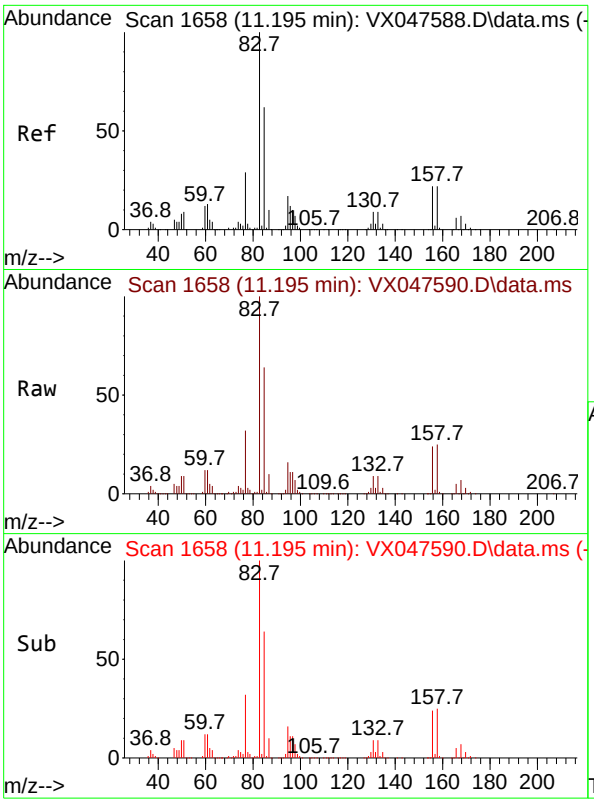


#74
N-amyl acetate
Concen: 160.099 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 636879

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.0	48.0
55	22.9	18.9	28.3
61	23.6	18.8	28.2

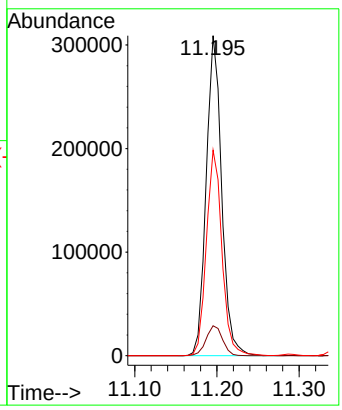




#75
1,1,2,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 40390

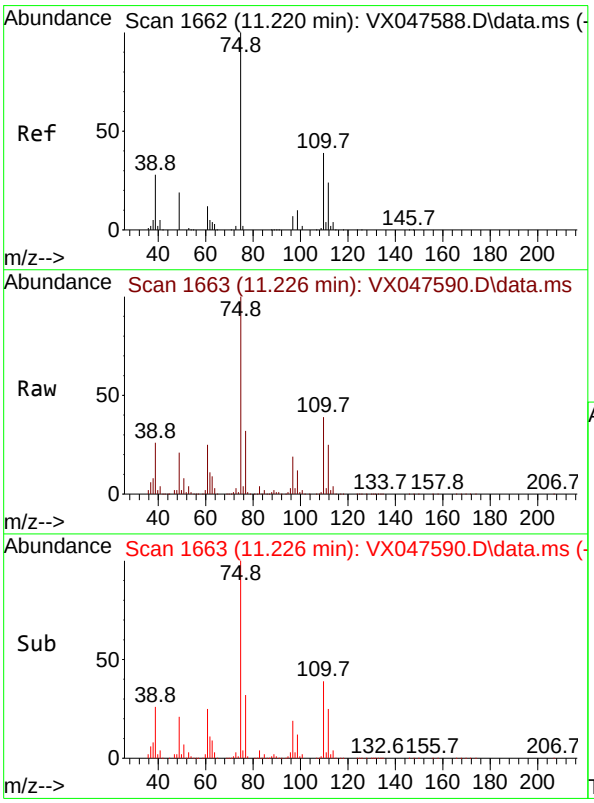
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

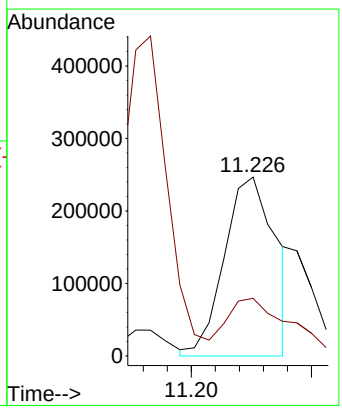
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

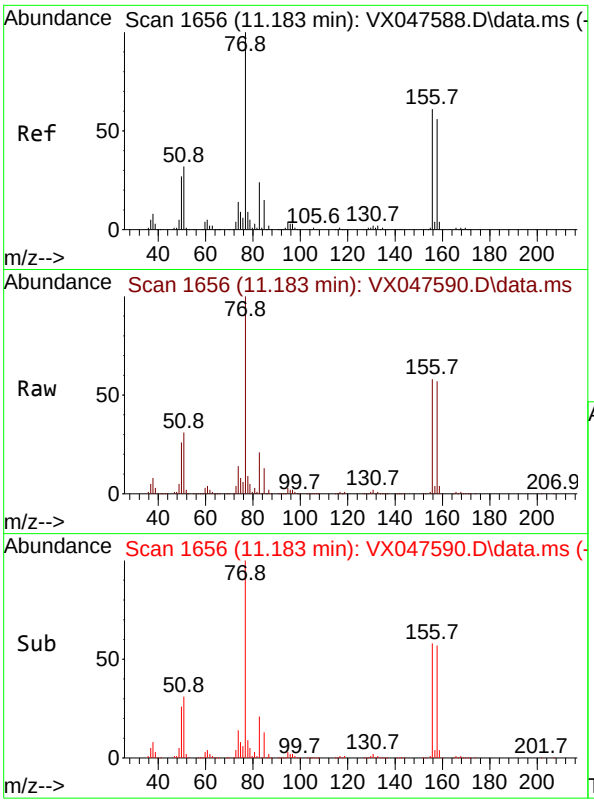


#76
1,2,3-Trichloropropane
Concen: 153.692 ug/l m
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 366171

Ion	Ratio	Lower	Upper
75	100		
77	39.7	18.8	56.4

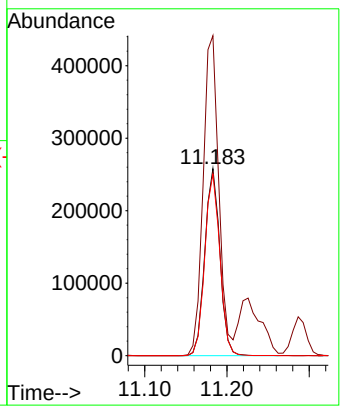




#77
Bromobenzene
Concen: 152.818 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:156 Resp: 32833

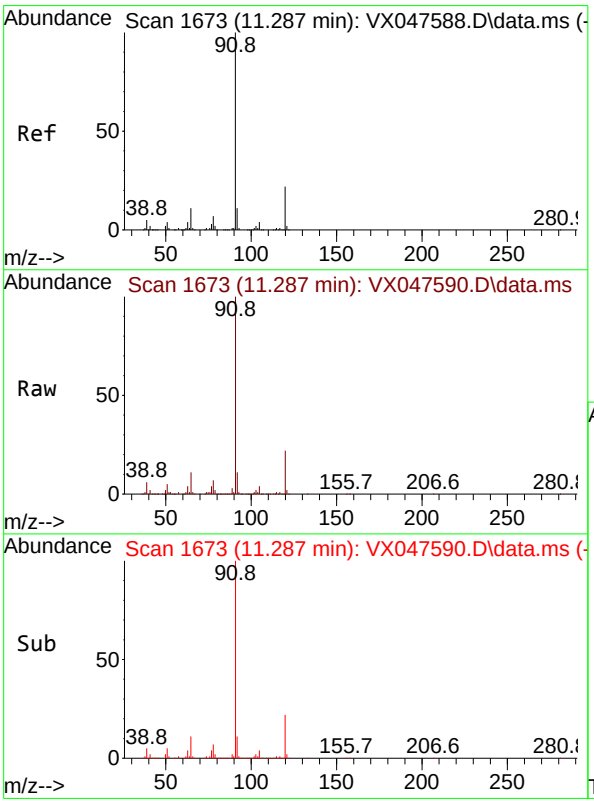
Ion	Ratio	Lower	Upper
156	100		
77	178.2	89.7	269.1
158	97.5	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

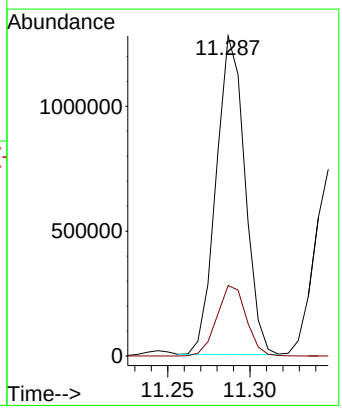
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

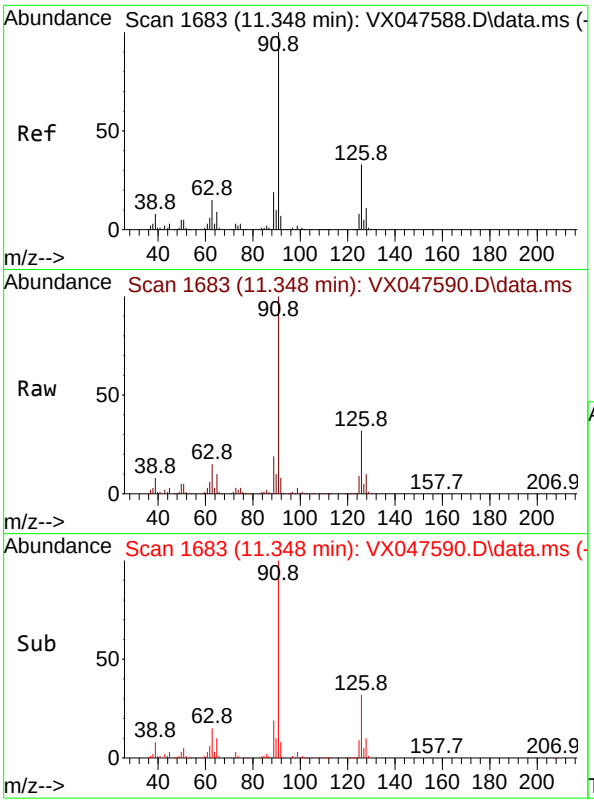


#78
n-propylbenzene
Concen: 150.337 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1550316

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1

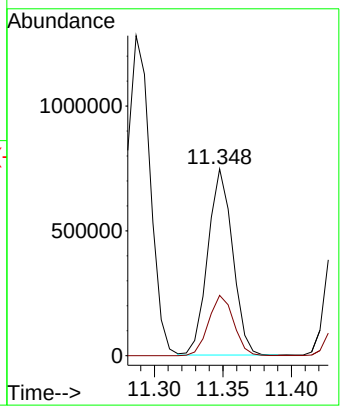




#79
2-Chlorotoluene
Concen: 148.781 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 93970

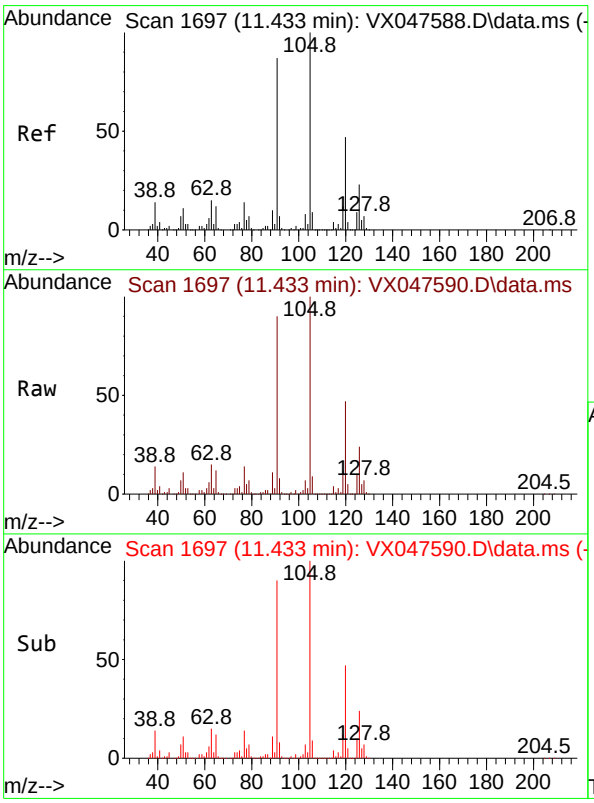
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

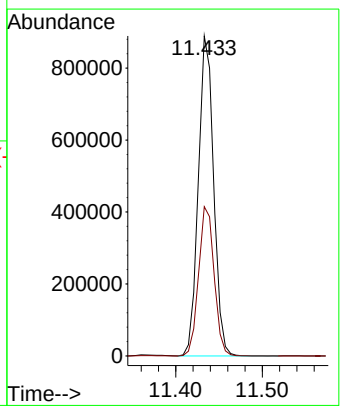
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

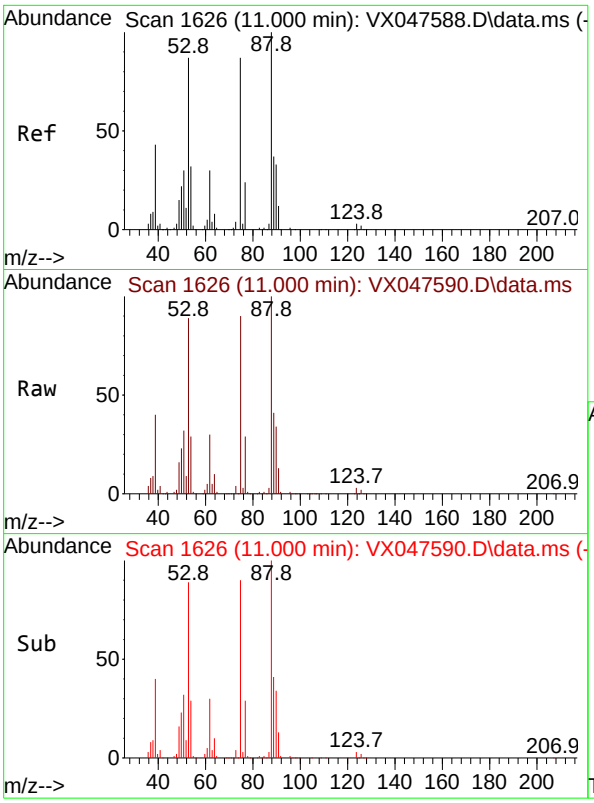


#80
1,3,5-Trimethylbenzene
Concen: 152.306 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1091593

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 160.176 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

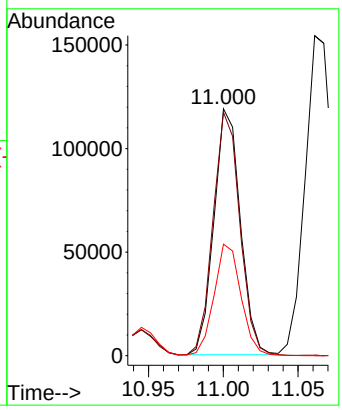
Tgt Ion: 75 Resp: 14592

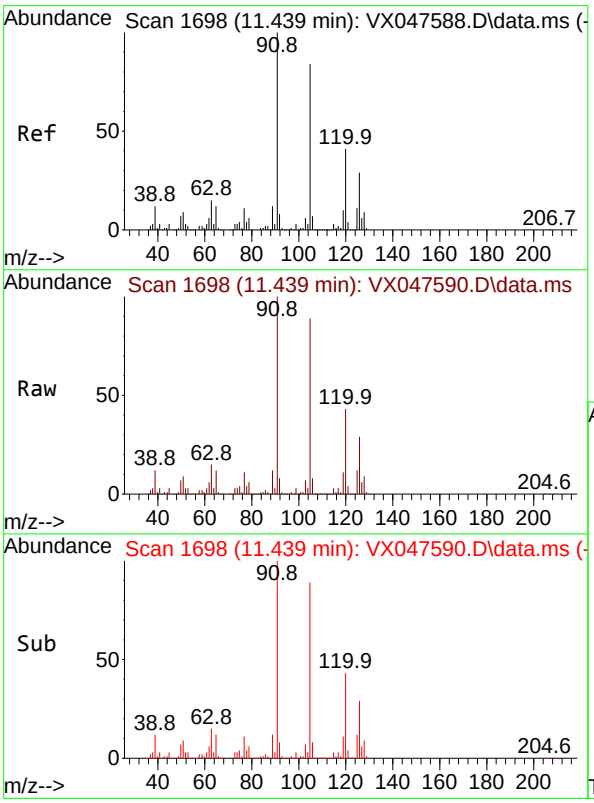
Ion	Ratio	Lower	Upper
75	100		
53	100.8	83.4	125.2
89	46.3	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

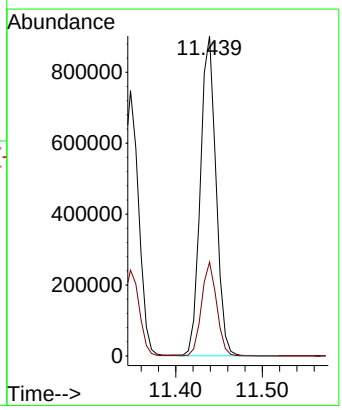


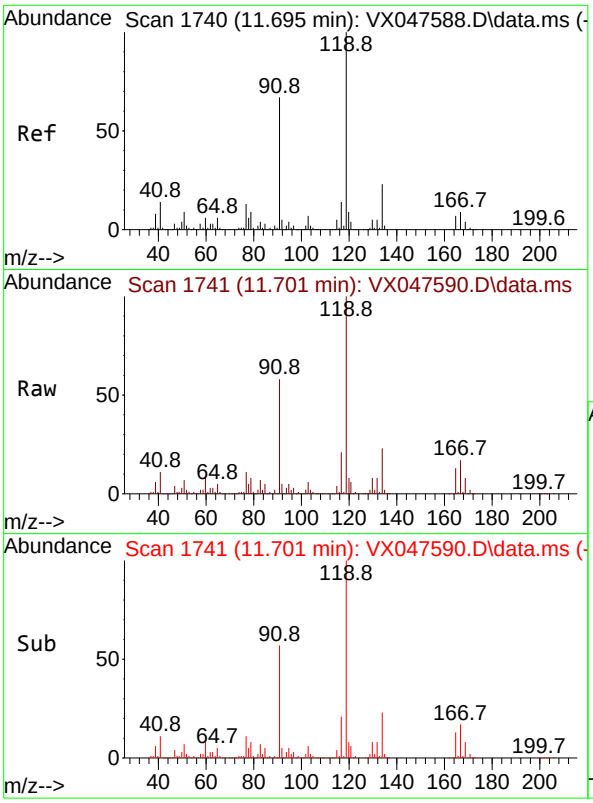


#82
4-Chlorotoluene
Concen: 151.112 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1127233

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

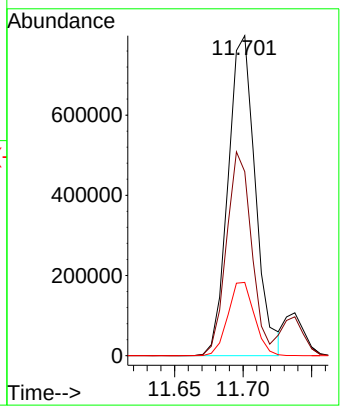




#83
tert-Butylbenzene
Concen: 150.819 ug/l
RT: 11.701 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 110653

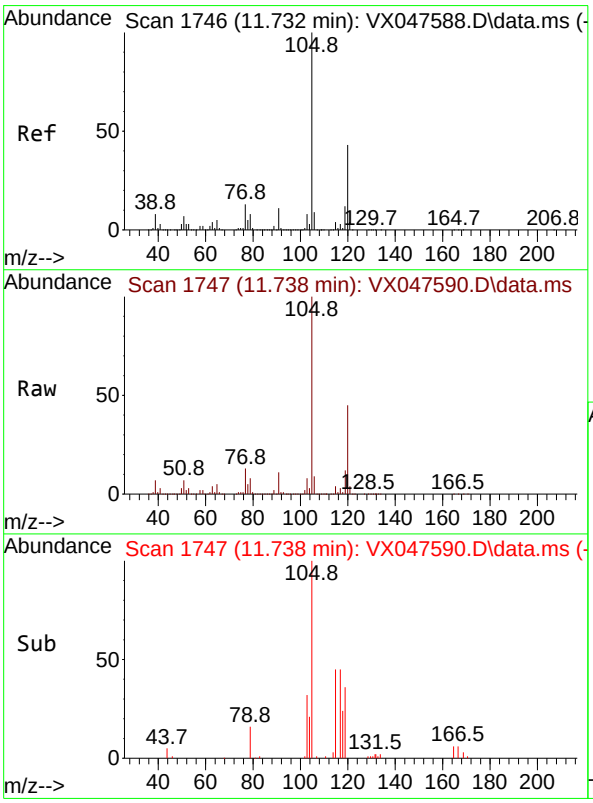
Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

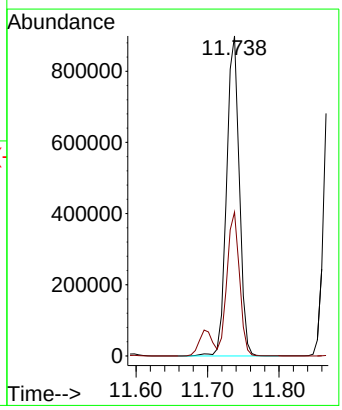
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

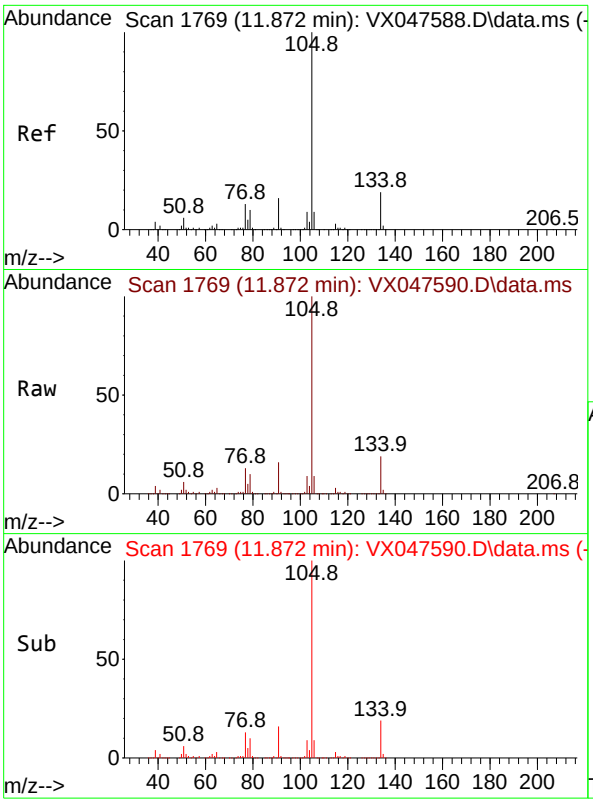


#84
1,2,4-Trimethylbenzene
Concen: 152.336 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1106914

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.1

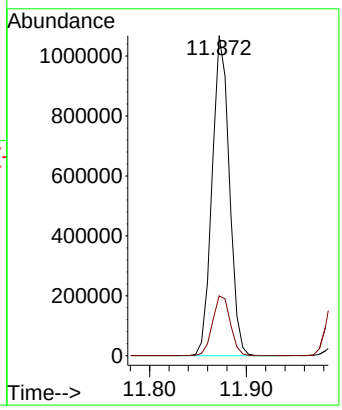




#85
sec-Butylbenzene
Concen: 151.448 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 131981

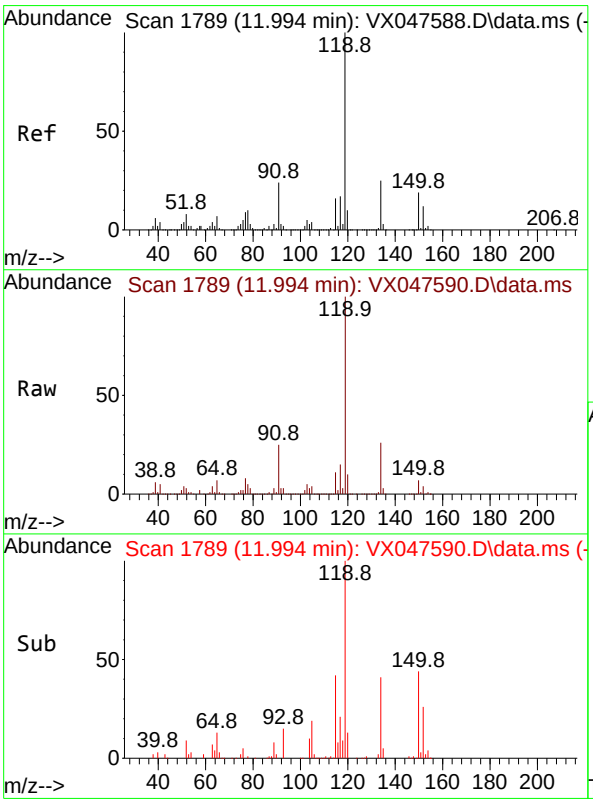
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

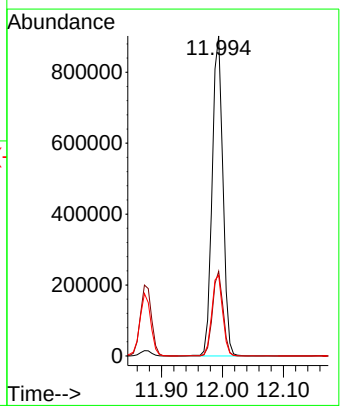
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

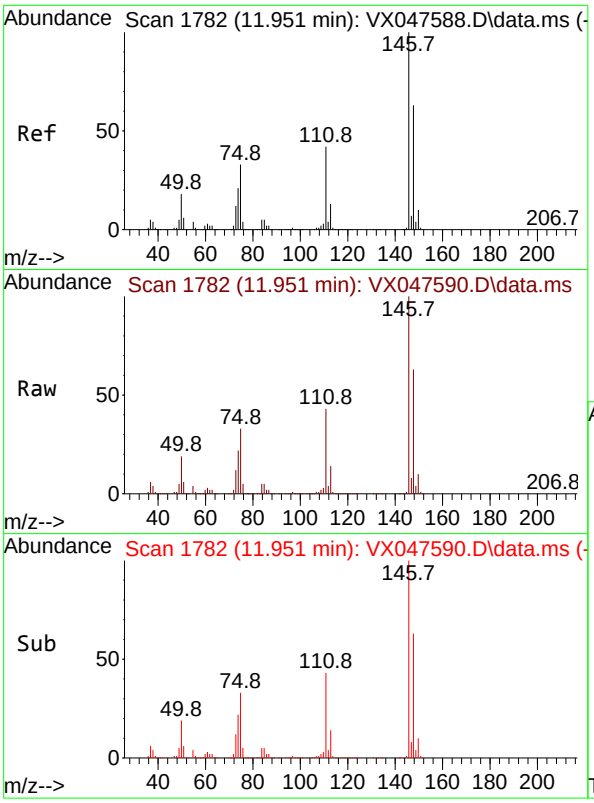


#86
p-Isopropyltoluene
Concen: 149.530 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 1103210

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.3	12.6	37.6

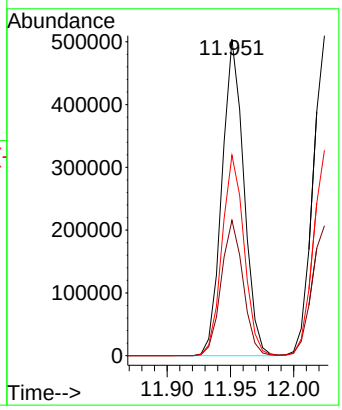




#87
1,3-Dichlorobenzene
Concen: 151.633 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 60512

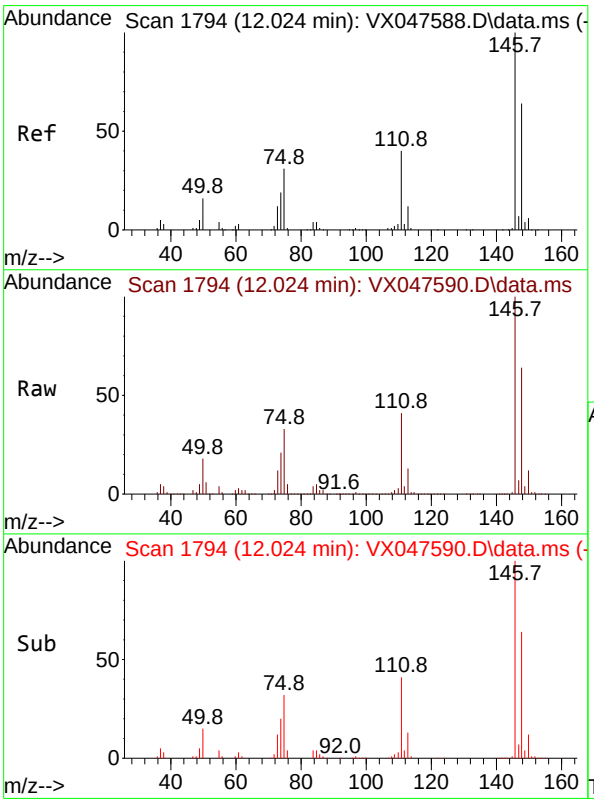
Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.5	64.5
148	63.8	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

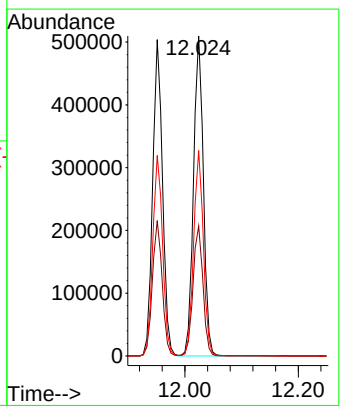
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

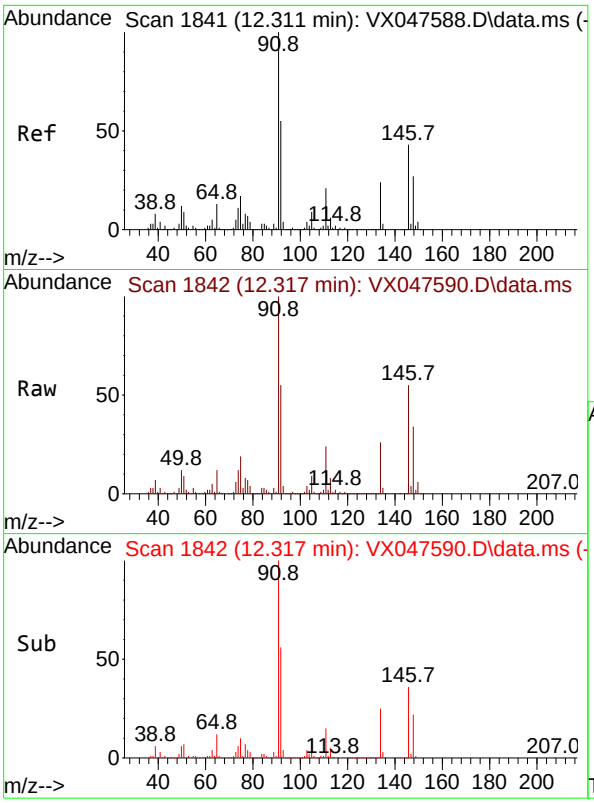


#88
1,4-Dichlorobenzene
Concen: 149.814 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 613617

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	63.2	31.7	95.1

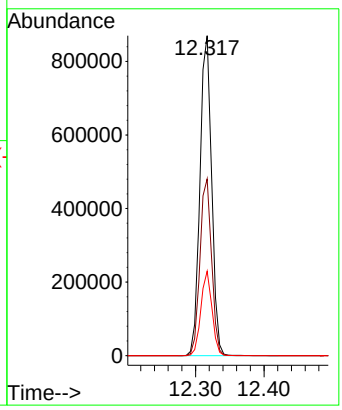




#89
n-Butylbenzene
Concen: 151.222 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 103235

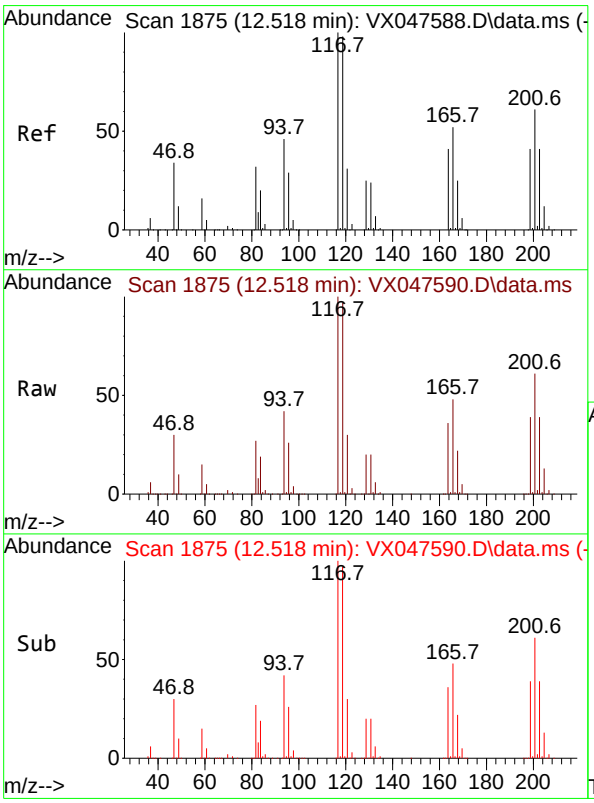
Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

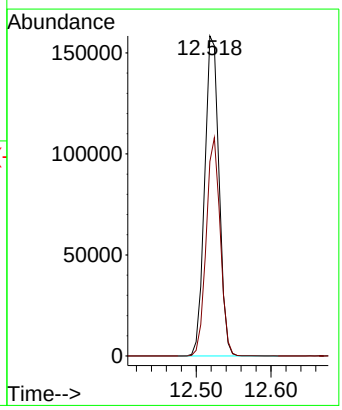
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

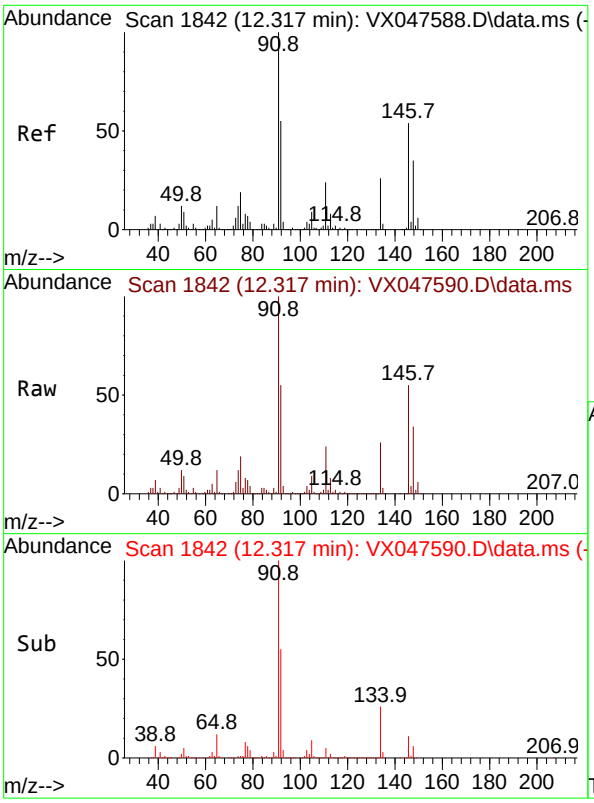


#90
Hexachloroethane
Concen: 163.258 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 211472

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5

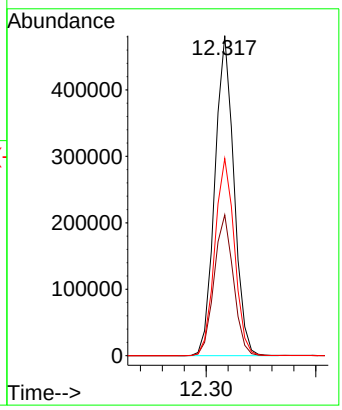




#91
1,2-Dichlorobenzene
Concen: 153.227 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 58256

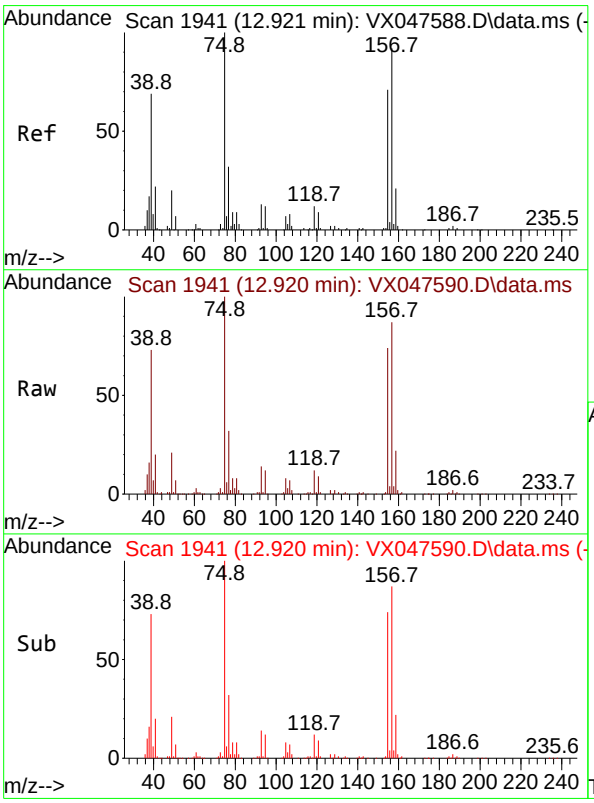
Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.2	66.6
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

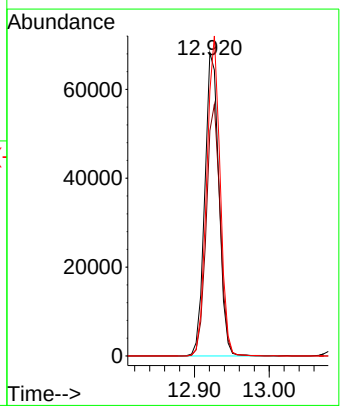
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

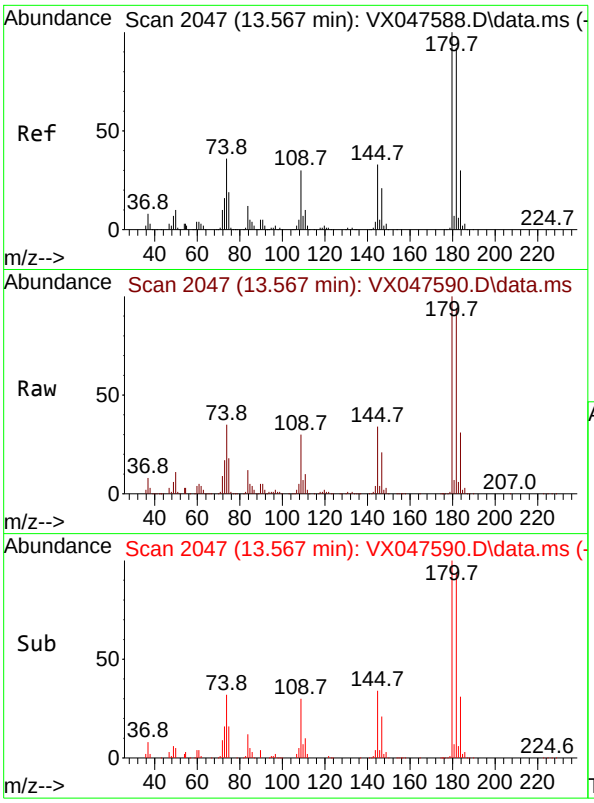


#92
1,2-Dibromo-3-Chloropropane
Concen: 167.332 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 89415

Ion	Ratio	Lower	Upper
75	100		
155	81.3	37.7	113.1
157	100.6	49.8	149.4

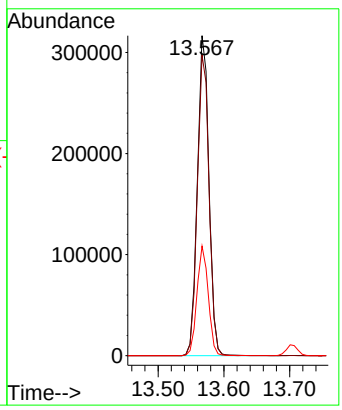




#93
1,2,4-Trichlorobenzene
Concen: 156.884 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 38765

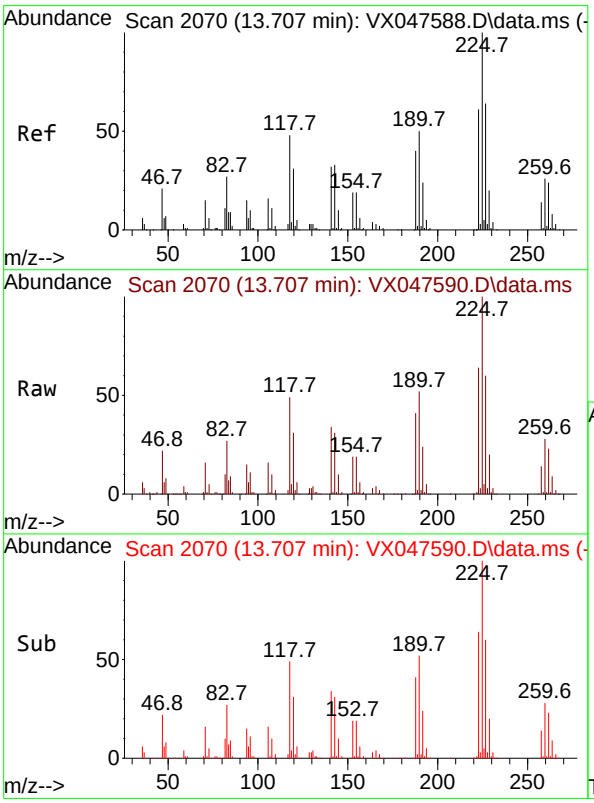
Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

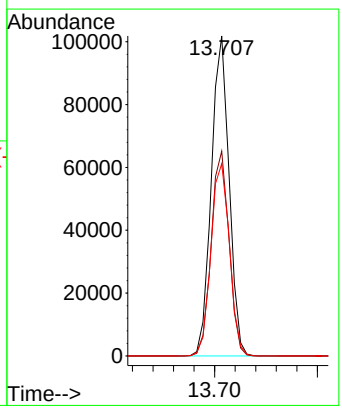
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

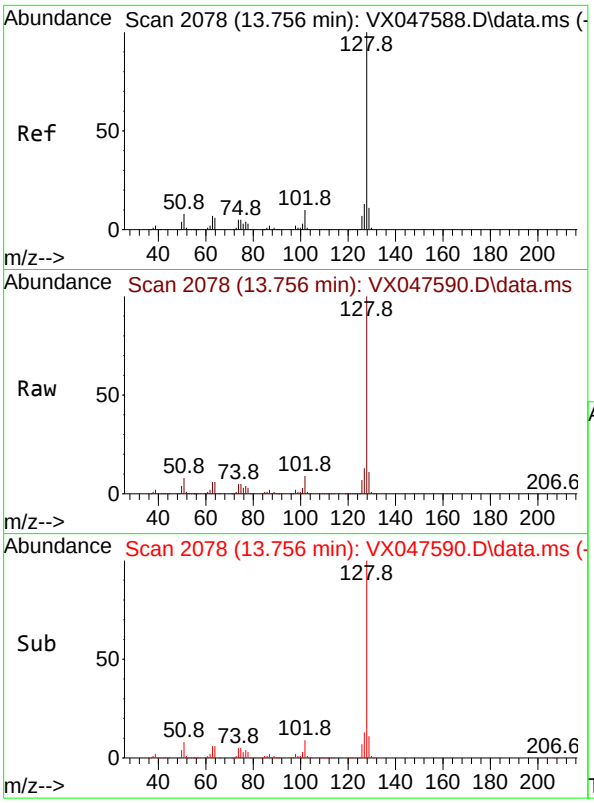


#94
Hexachlorobutadiene
Concen: 145.110 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:225 Resp: 121791

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.7	95.1
227	62.8	32.0	96.0

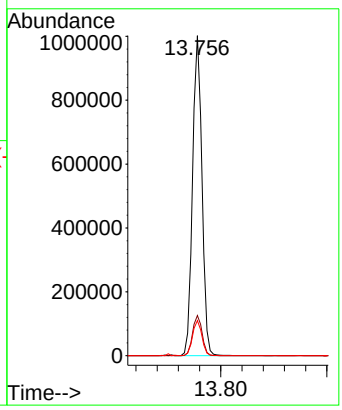




#95
Naphthalene
Concen: 163.388 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:128 Resp: 122936

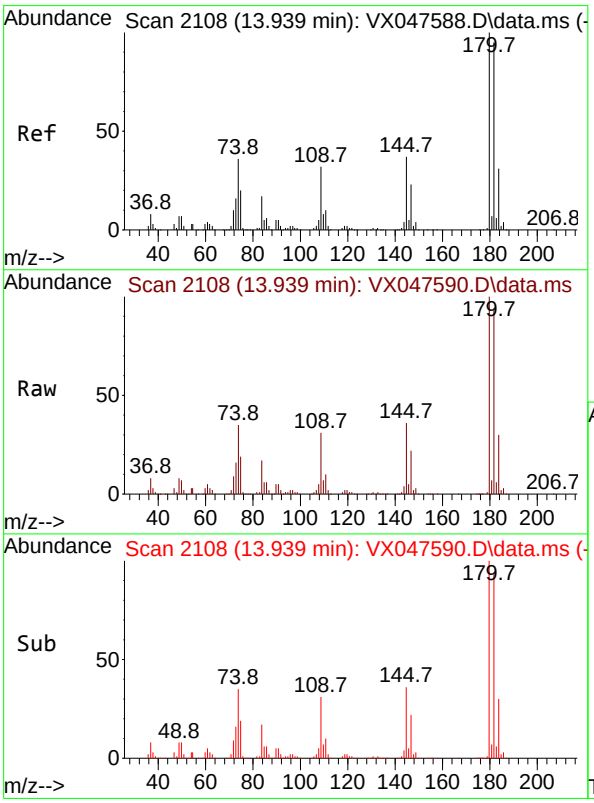
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

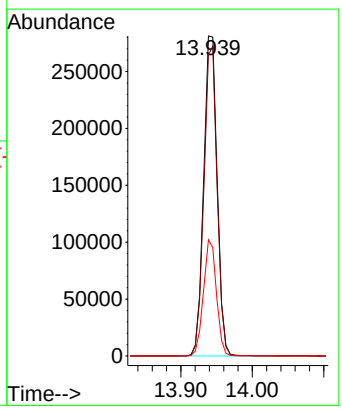
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 160.704 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 369382

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.8
145	34.9	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.100%		
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.120%		
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.820%		
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.040%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l		98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l		100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l		100
44) Trichloroethene	7.104	130	114708	48.037	ug/l		98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l		98
46) Dibromomethane	7.562	93	88297	47.976	ug/l		98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l		96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l		99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l		100
52) Toluene	8.702	92	292879	48.130	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l		97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l		98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l		99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l		99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l		99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l		99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l		99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l		98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l		98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l		99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l		99
69) o-Xylene	10.622	106	204323	50.159	ug/l		99
70) Styrene	10.640	104	353567	49.536	ug/l		99
71) Bromoform	10.780	173	86524	51.207	ug/l	#	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l		100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	149779m	53.124	ug/l		
77) Bromobenzene	11.183	156	125610	48.173	ug/l		98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l		99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l		99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l		100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l		99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l		100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l		99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l		100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l		100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l		99
95) Naphthalene	13.756	128	464206	50.836	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

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

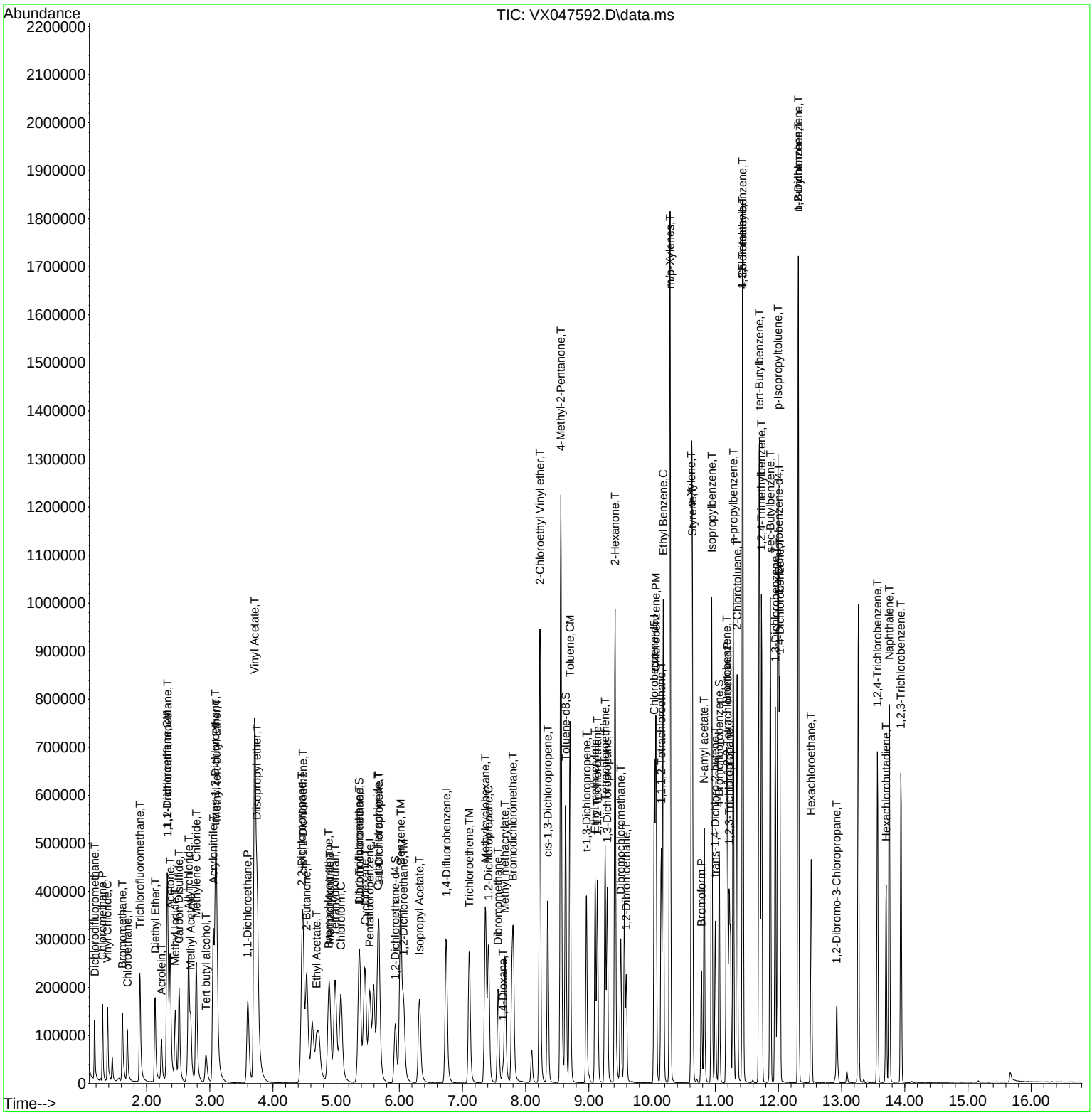
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

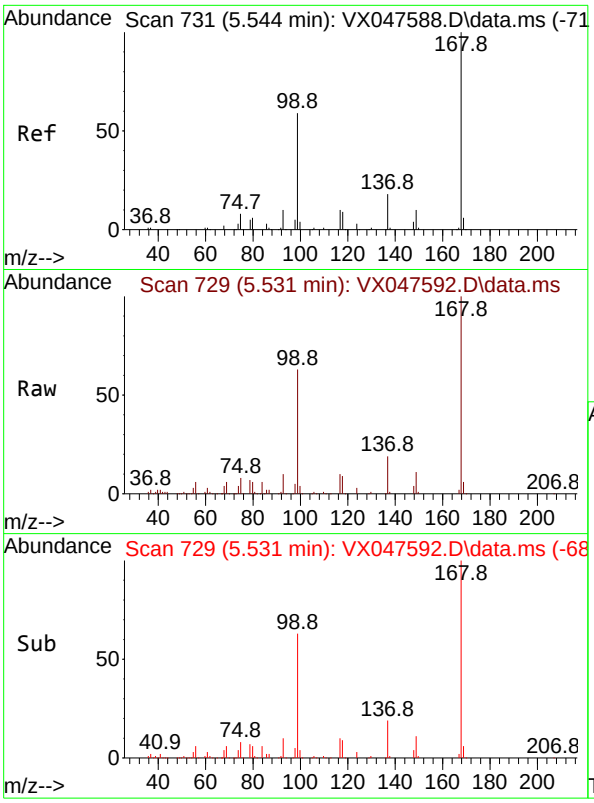
Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

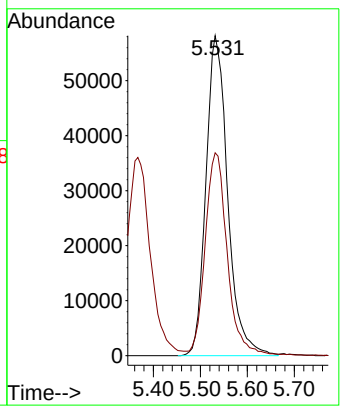




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:168 Resp: 18648

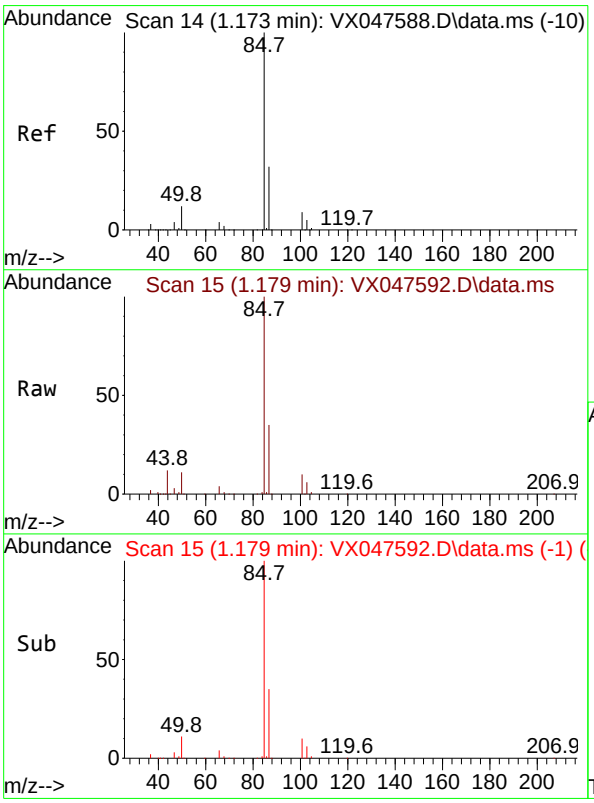
Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

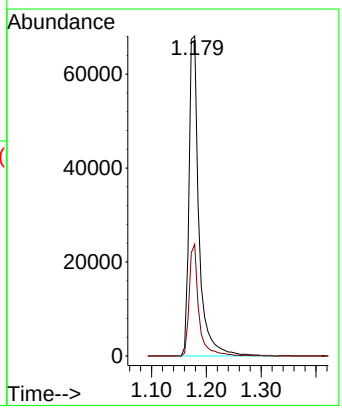
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

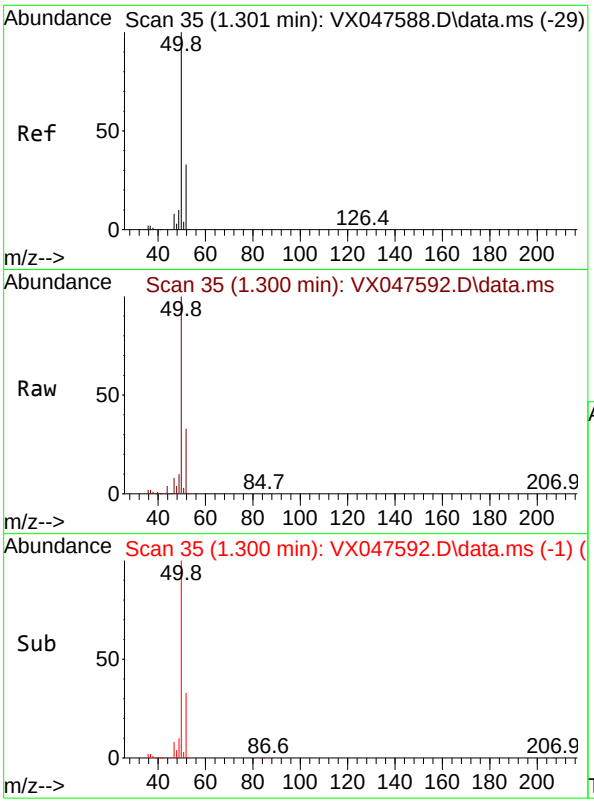


#2
Dichlorodifluoromethane
Concen: 44.592 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 85 Resp: 86110

Ion	Ratio	Lower	Upper
85	100		
87	34.9	15.8	47.3

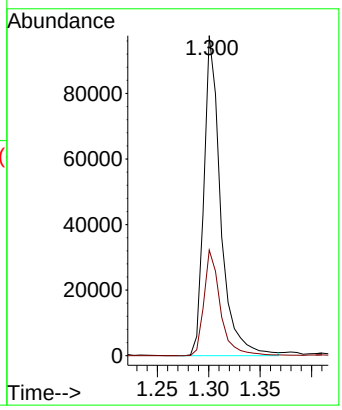




#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 50 Resp: 11093

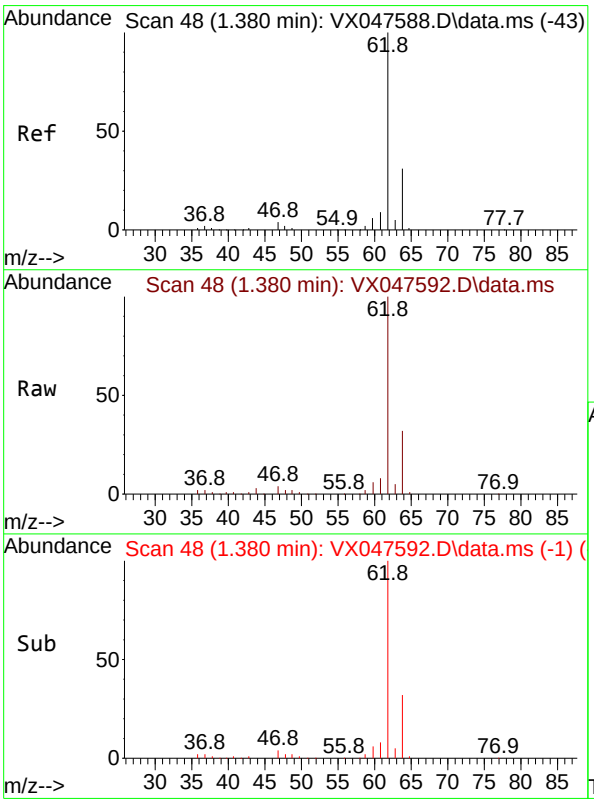
Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

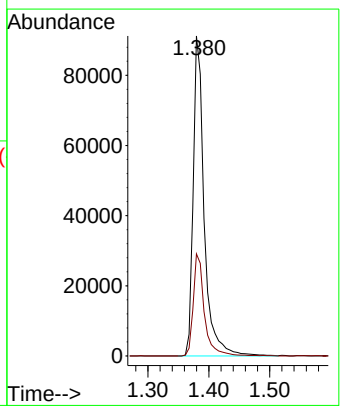
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

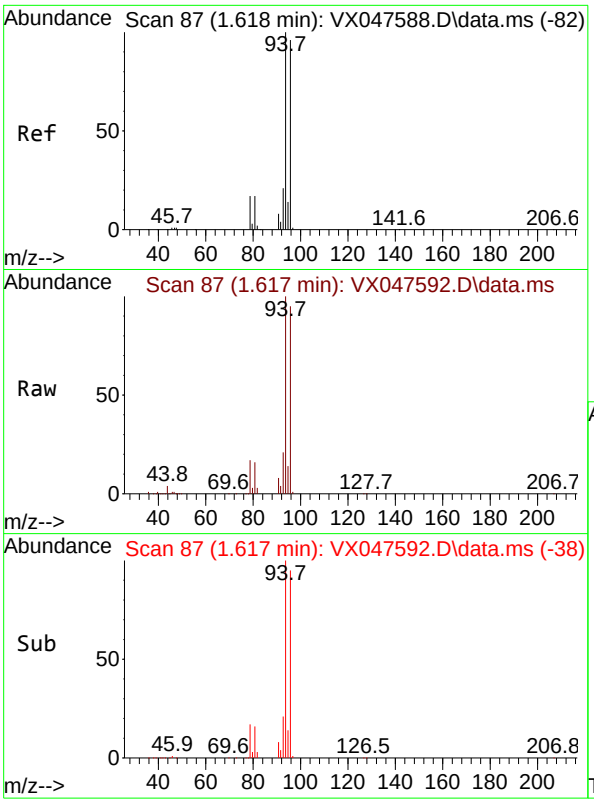


#4
Vinyl Chloride
Concen: 45.783 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 113742

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3

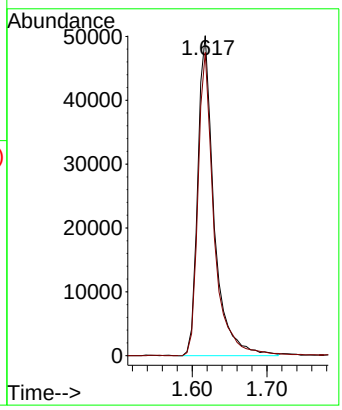




#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 94 Resp: 7638

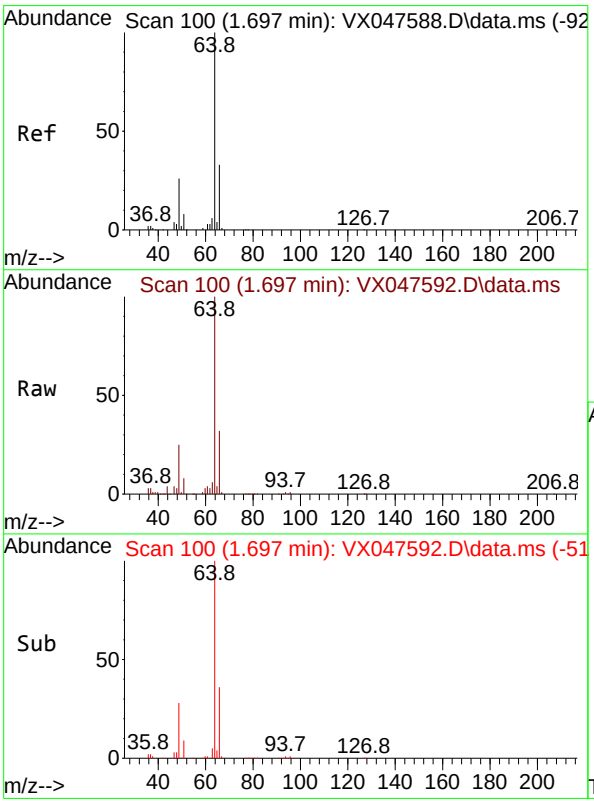
Ion	Ratio	Lower	Upper
94	100		
96	94.7	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

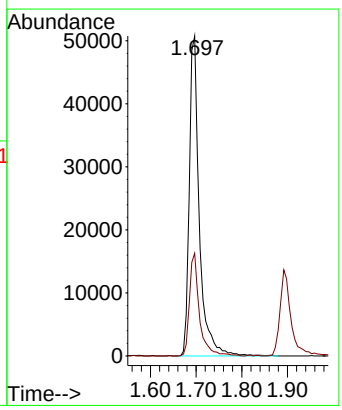
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

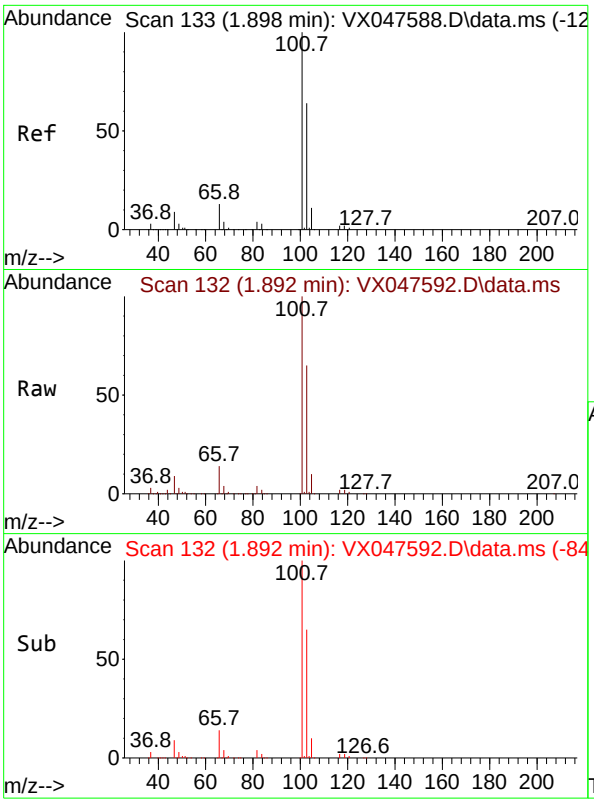


#6
Chloroethane
Concen: 46.575 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 64 Resp: 77337

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1

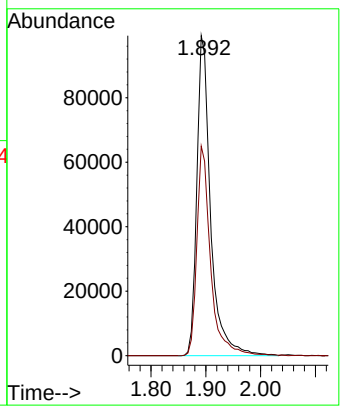




#7
Trichlorofluoromethane
Concen: 47.074 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:101 Resp: 17364

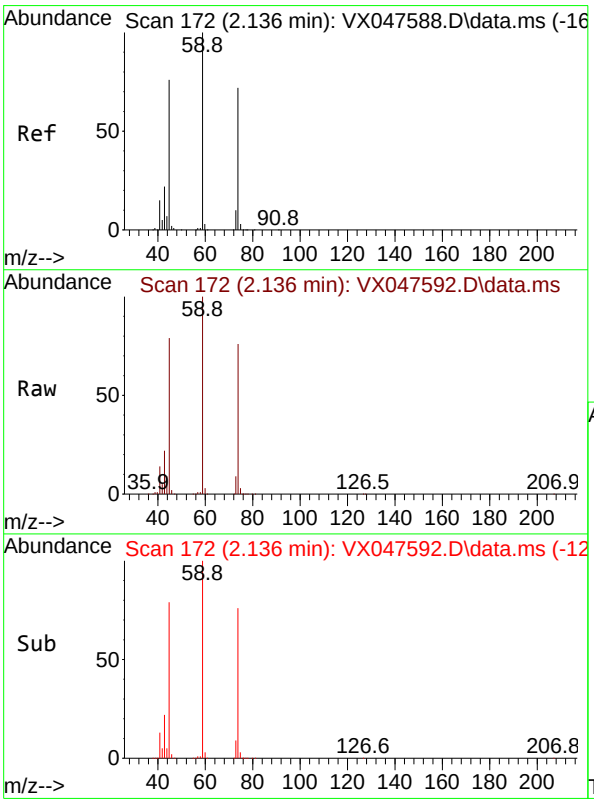
Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

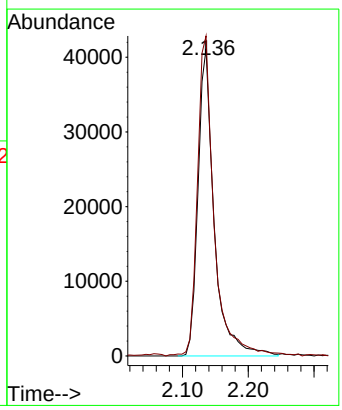
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

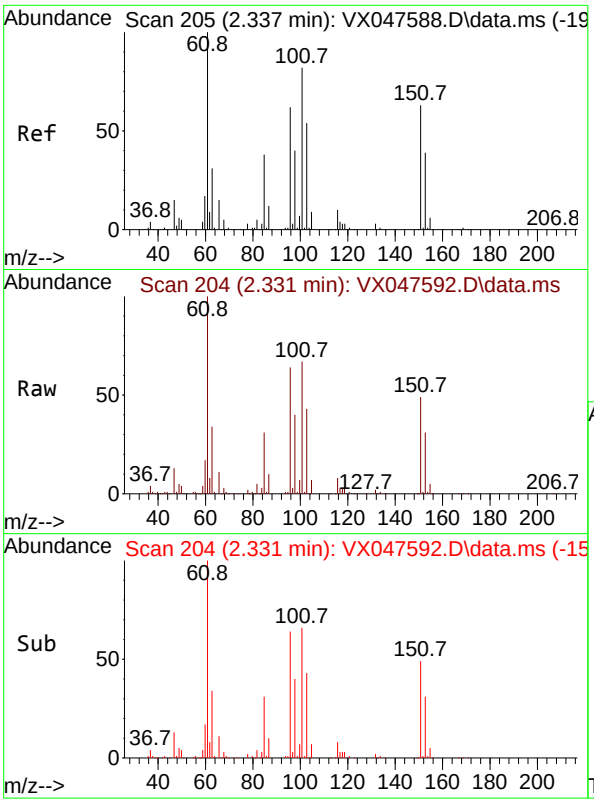


#8
Diethyl Ether
Concen: 46.693 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 74 Resp: 70459

Ion	Ratio	Lower	Upper
74	100		
45	107.1	52.3	156.8

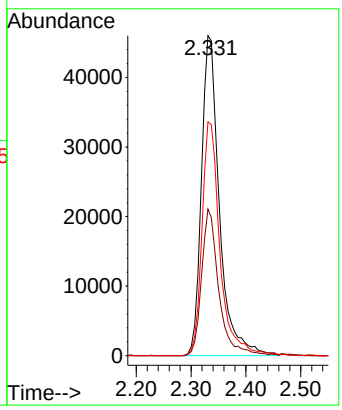




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.524 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:101 Resp: 10466

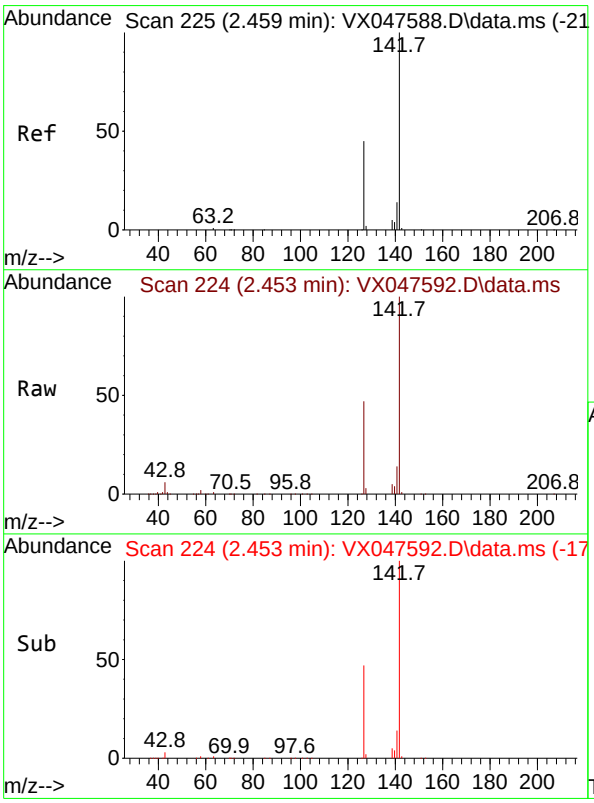
Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.3	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

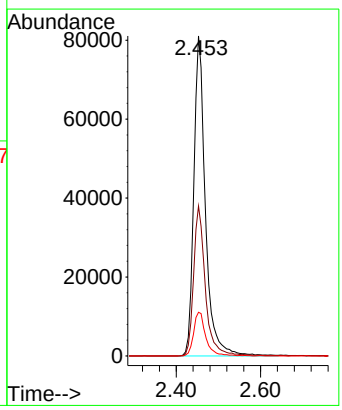
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

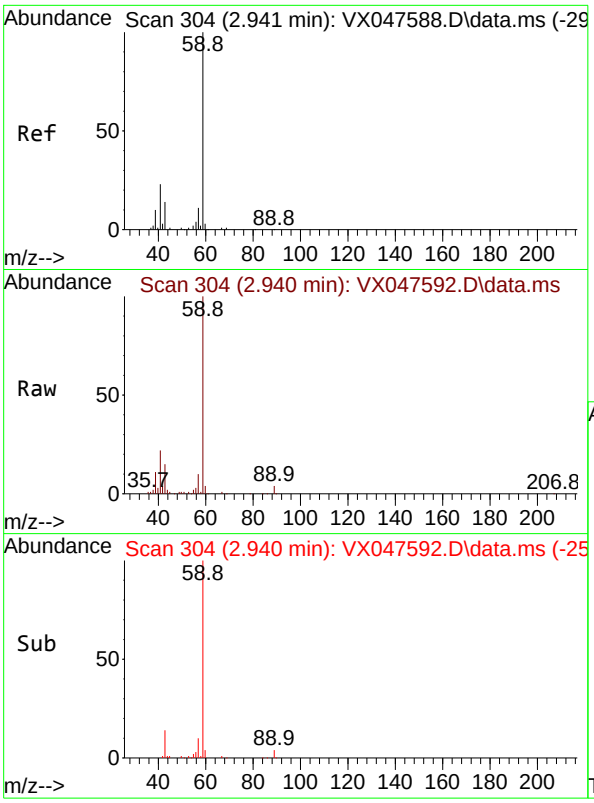


#10
Methyl Iodide
Concen: 46.210 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:142 Resp: 155450

Ion	Ratio	Lower	Upper
142	100		
127	47.6	37.2	55.8
141	14.4	11.4	17.0

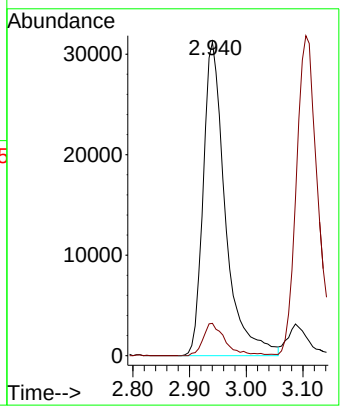




#11
Tert butyl alcohol
Concen: 256.271 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 59 Resp: 8472

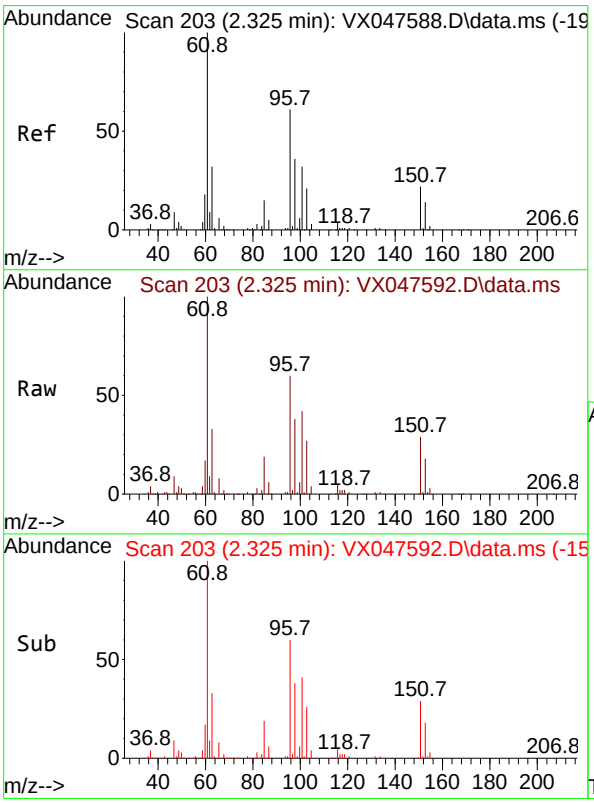
Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

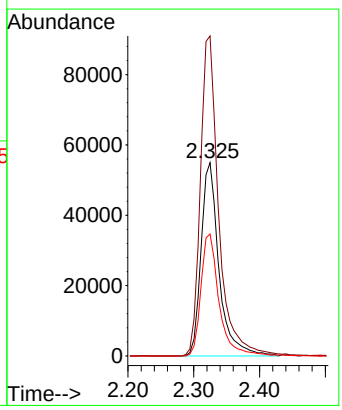
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

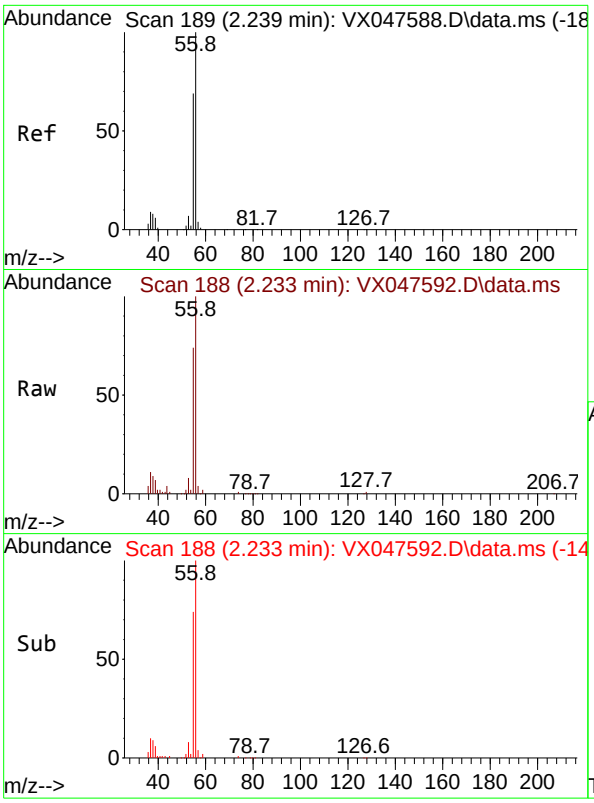


#12
1,1-Dichloroethene
Concen: 47.076 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 104302

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	63.1	47.7	71.5

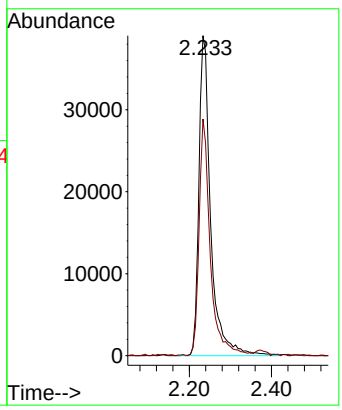




#13
Acrolein
Concen: 254.867 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 56 Resp: 7764

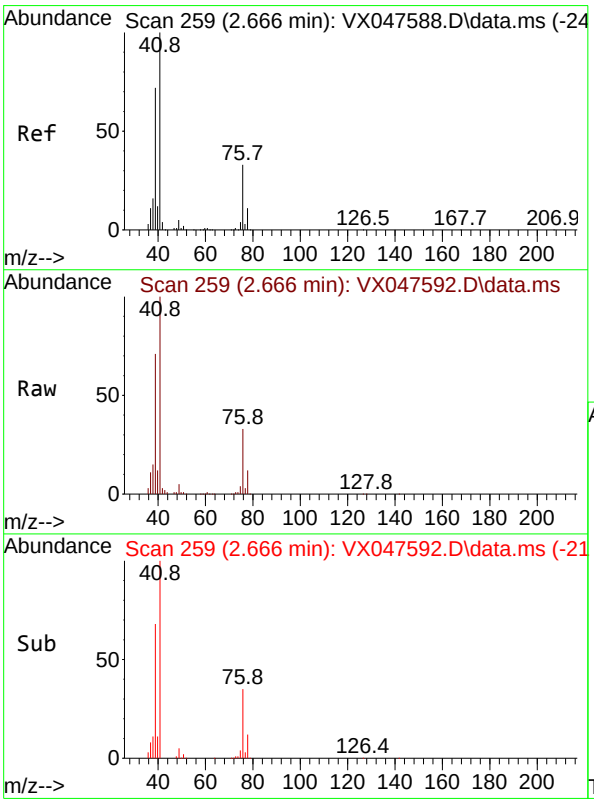
Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

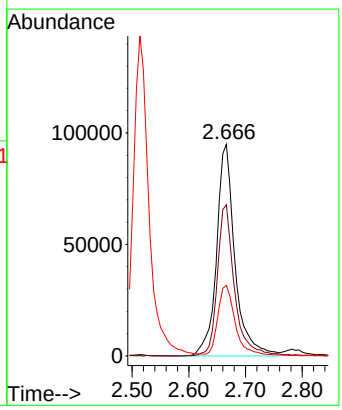
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

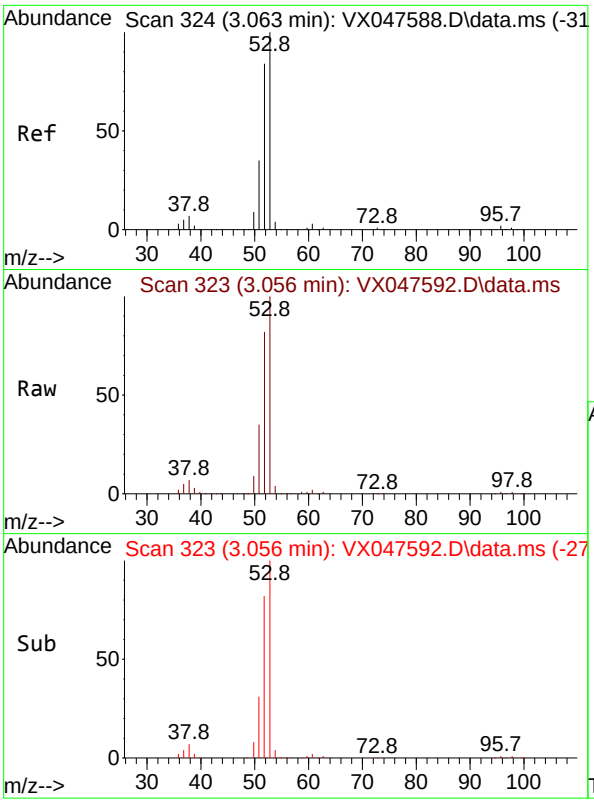


#14
Allyl chloride
Concen: 46.742 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 213704

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.7	82.1
76	31.7	25.7	38.5

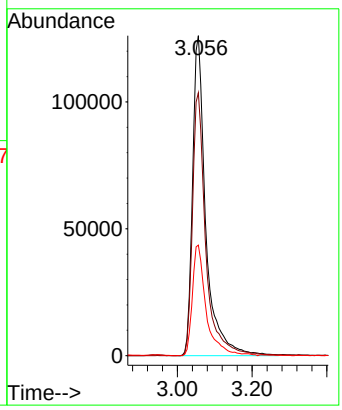




#15
Acrylonitrile
Concen: 253.567 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 53 Resp: 31050

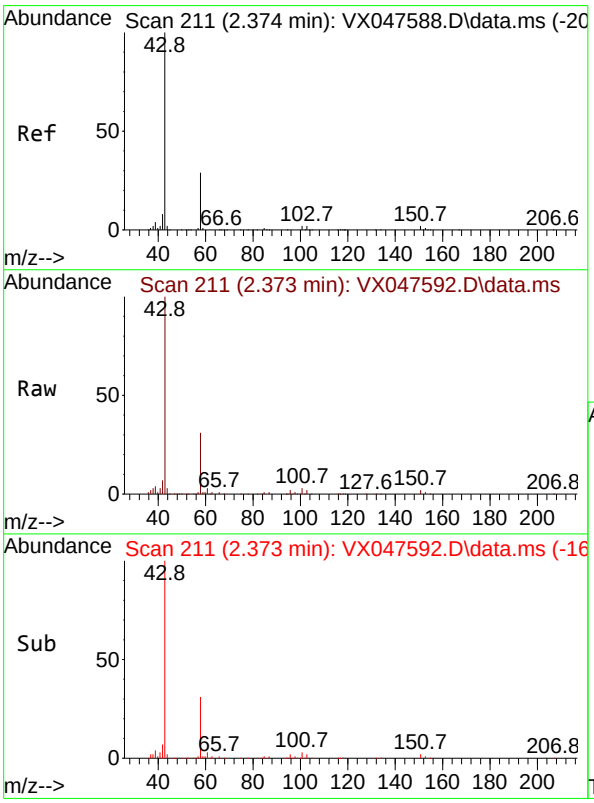
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.2	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

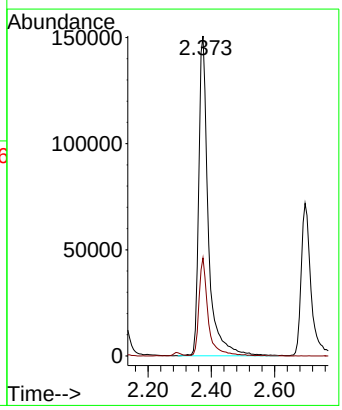
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

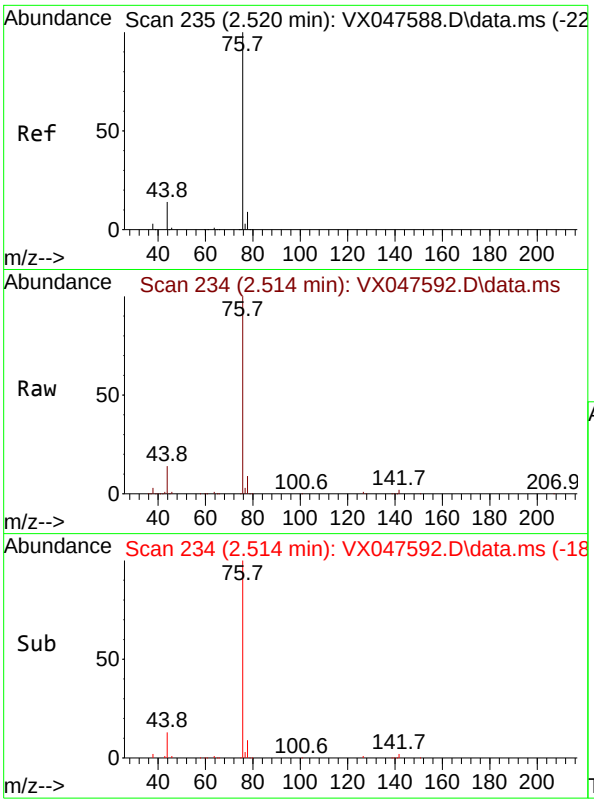


#16
Acetone
Concen: 245.006 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 316217

Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.4	35.0

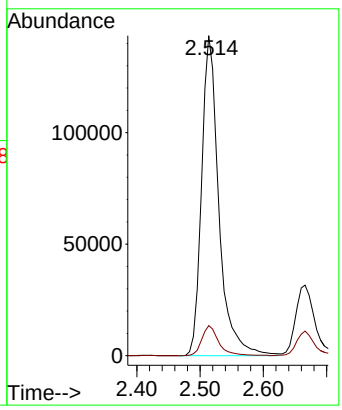




#17
Carbon Disulfide
Concen: 44.966 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 76 Resp: 27274

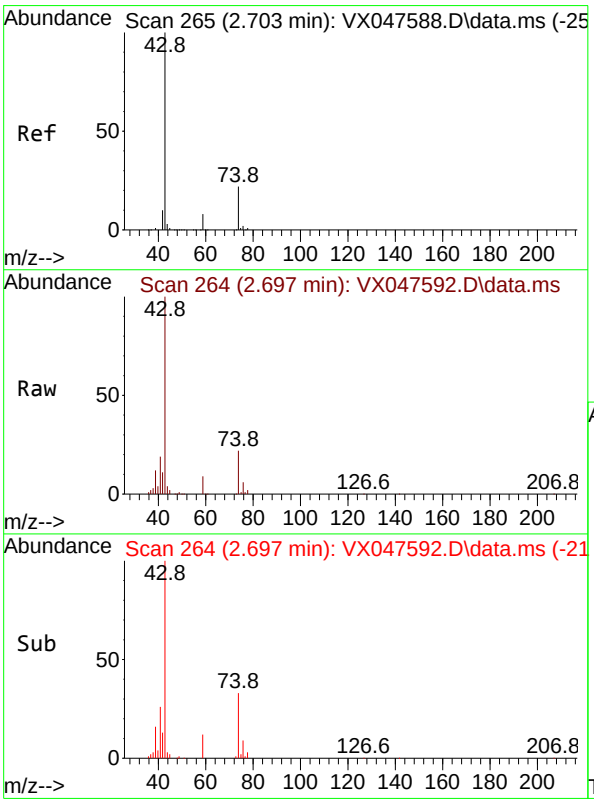
Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

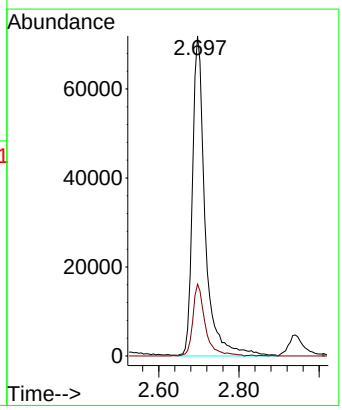
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

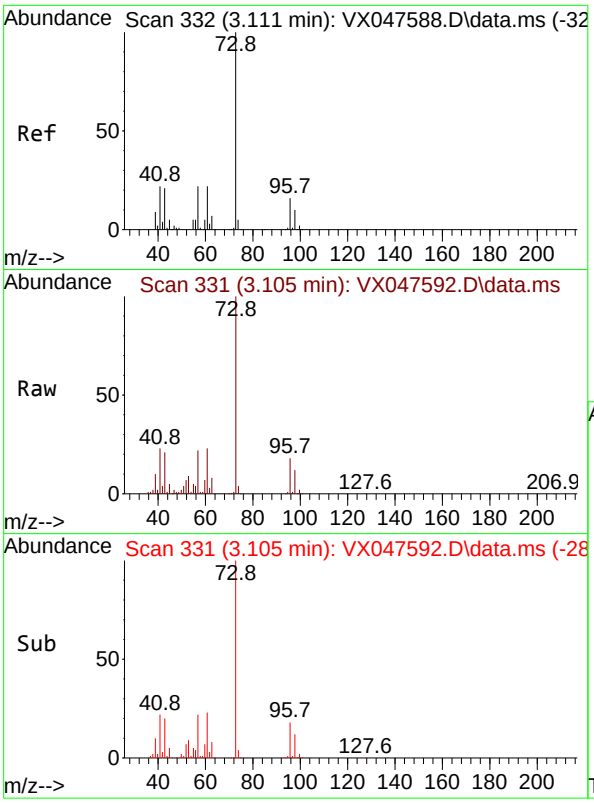


#18
Methyl Acetate
Concen: 55.175 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 158480

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

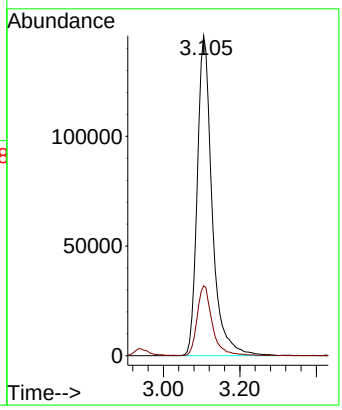




#19
Methyl tert-butyl Ether
Concen: 48.538 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 73 Resp: 39257

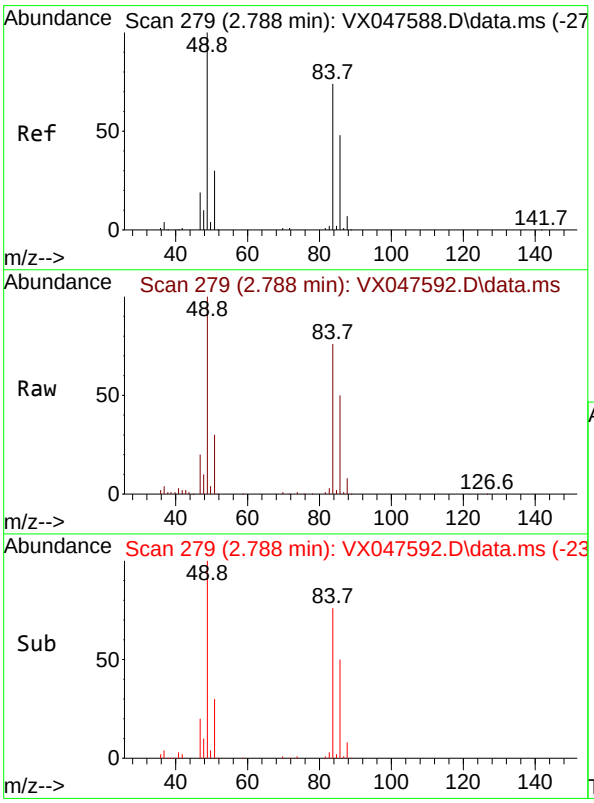
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

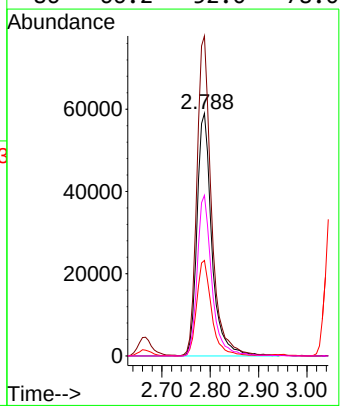
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

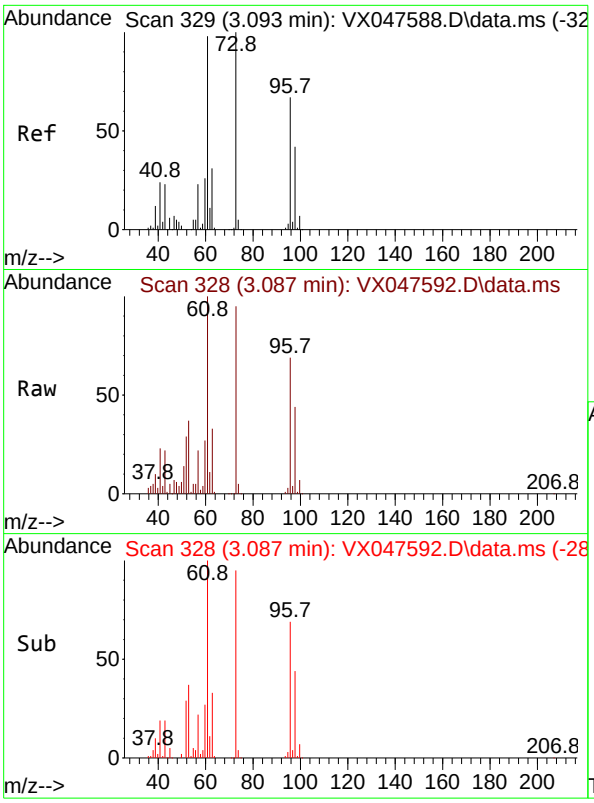


#20
Methylene Chloride
Concen: 46.000 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 84 Resp: 125669

Ion	Ratio	Lower	Upper
84	100		
49	131.8	108.6	162.8
51	39.4	32.6	48.8
86	66.2	52.0	78.0

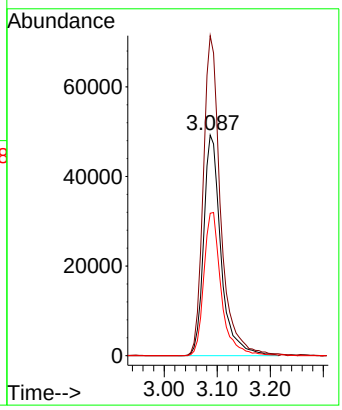




#21
trans-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 11141

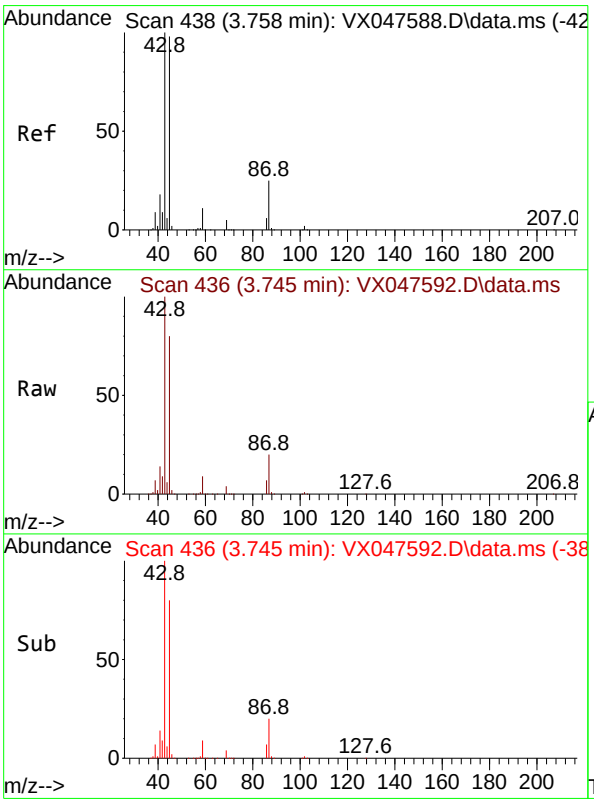
Ion	Ratio	Lower	Upper
96	100		
61	145.1	116.2	174.2
98	64.5	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

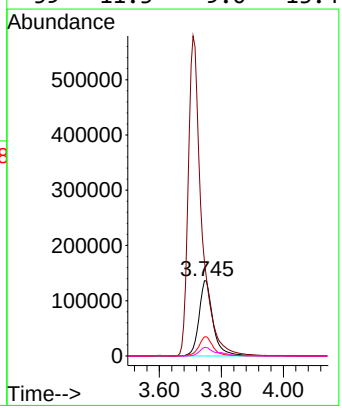
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

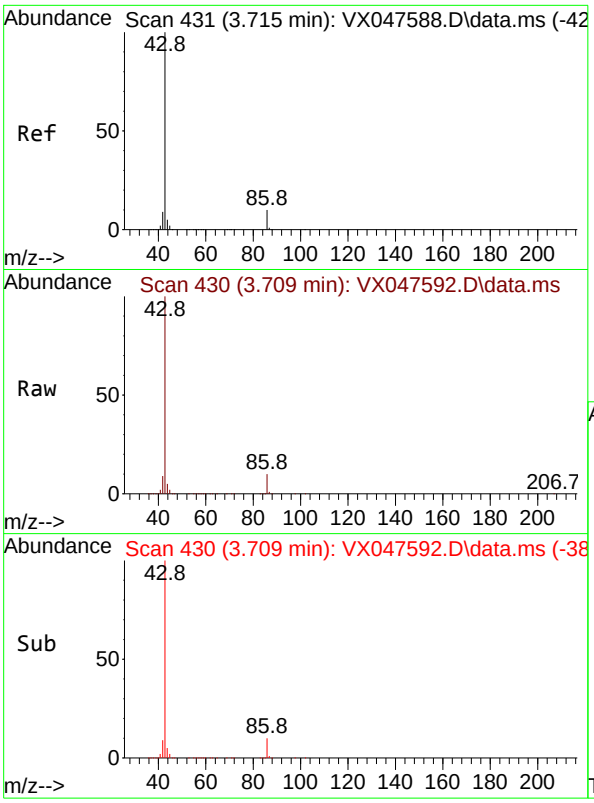


#22
Diisopropyl ether
Concen: 48.174 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 45 Resp: 426854

Ion	Ratio	Lower	Upper
45	100		
43	124.9	81.0	121.4#
87	25.2	20.3	30.5
59	11.3	9.0	13.4

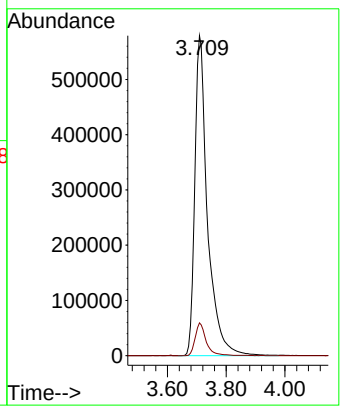




#23
Vinyl Acetate
Concen: 245.539 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 174126

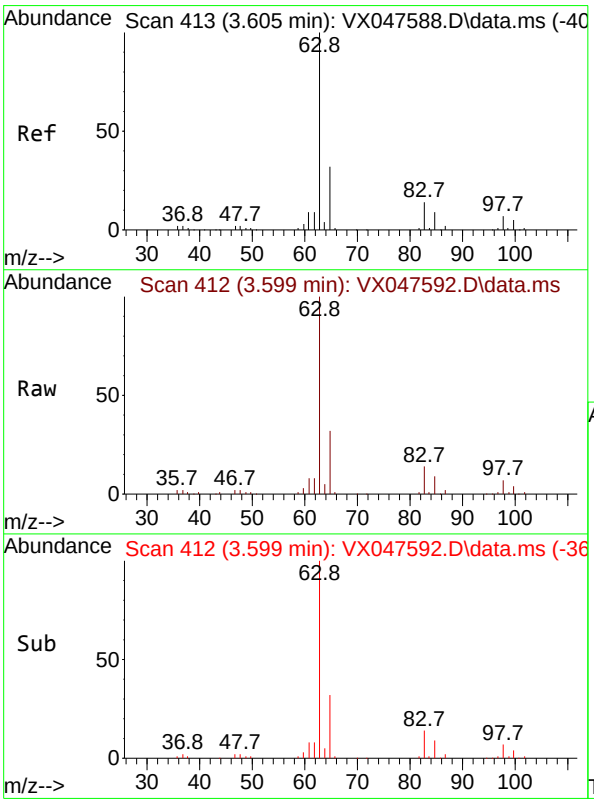
Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

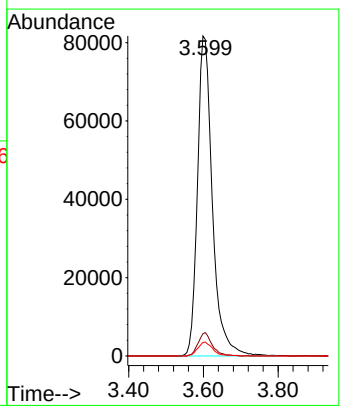
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

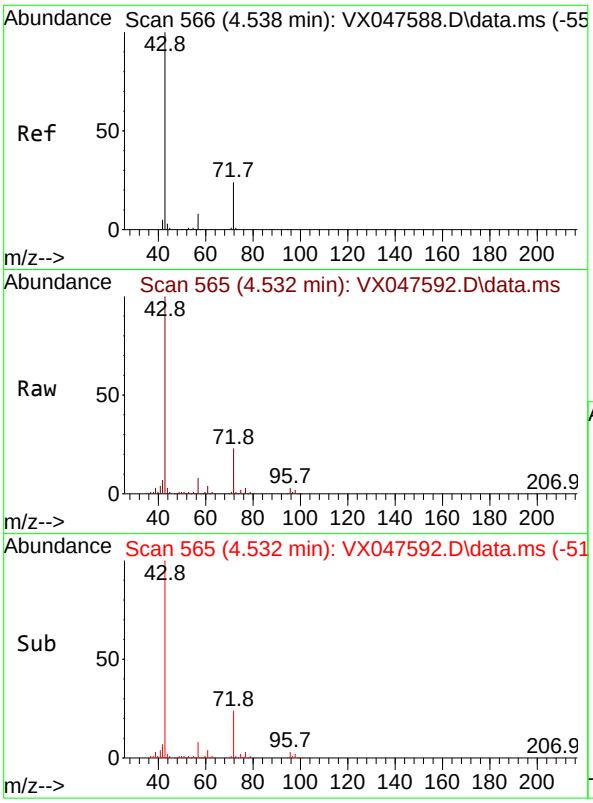


#24
1,1-Dichloroethane
Concen: 48.041 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 226249

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.2
100	4.4	2.3	6.9

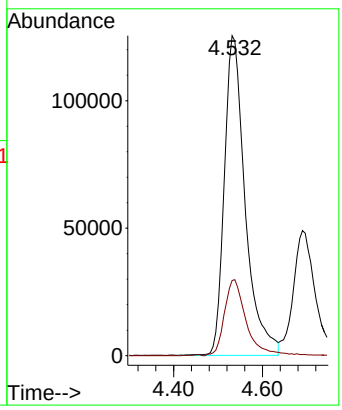




#25
2-Butanone
Concen: 253.598 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 40827

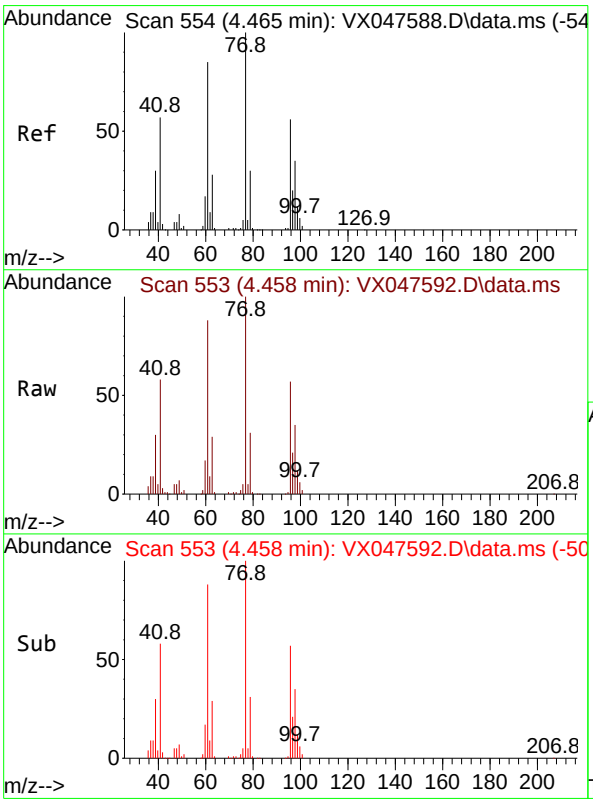
Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

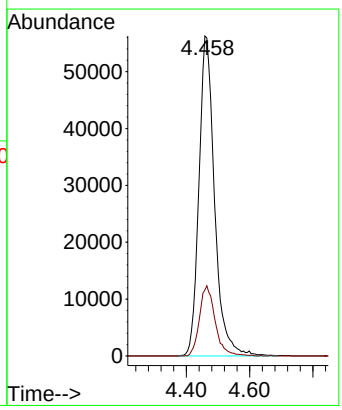
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

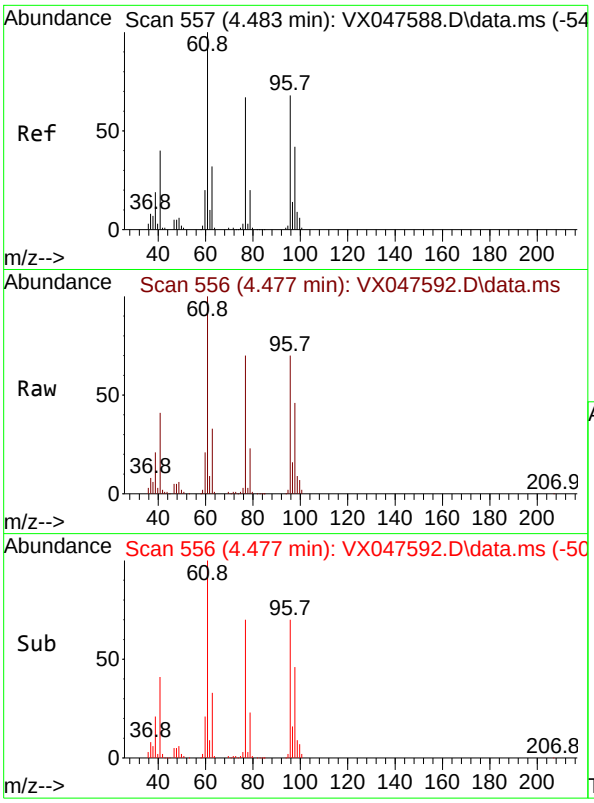


#26
2,2-Dichloropropane
Concen: 49.494 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 77 Resp: 193760

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7

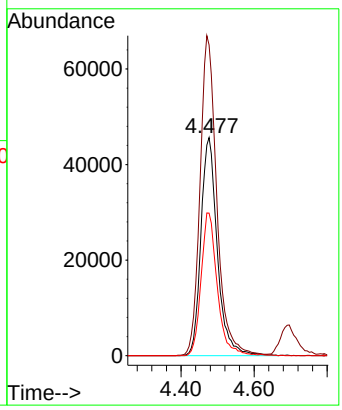




#27
cis-1,2-Dichloroethene
Concen: 48.826 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 14263

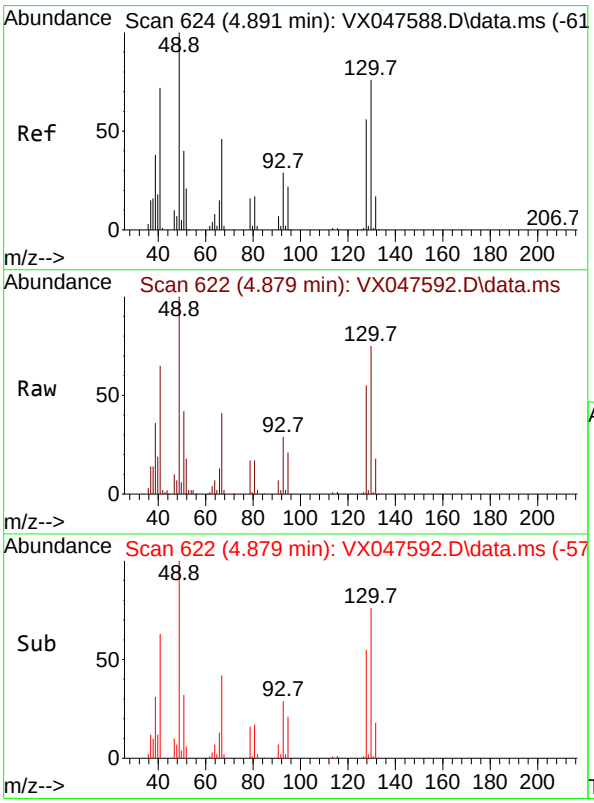
Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	303.2
98	64.3	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

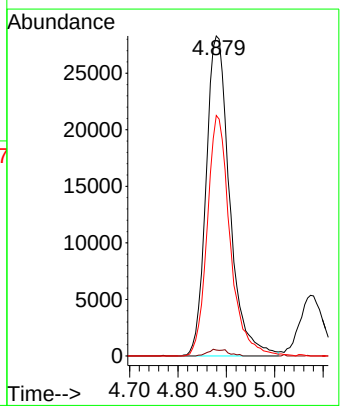
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

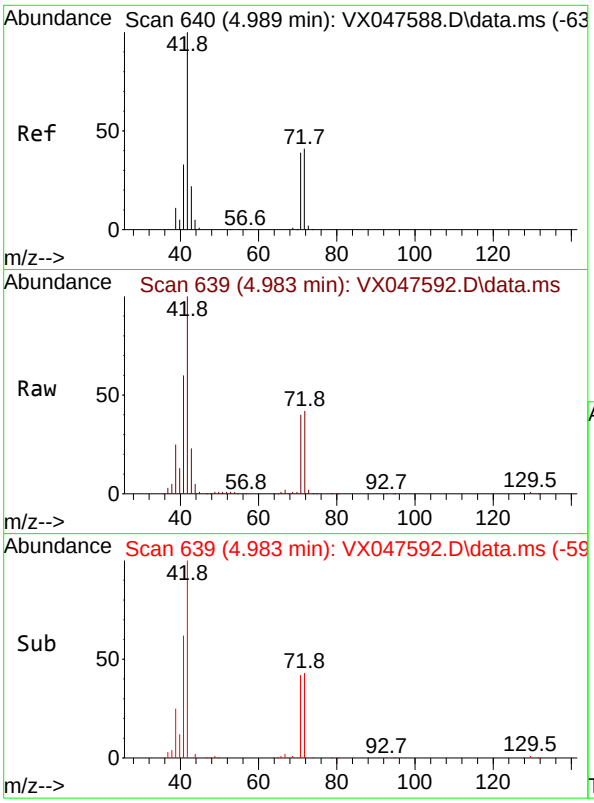


#28
Bromochloromethane
Concen: 46.586 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 49 Resp: 95782

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.9	57.8	86.8

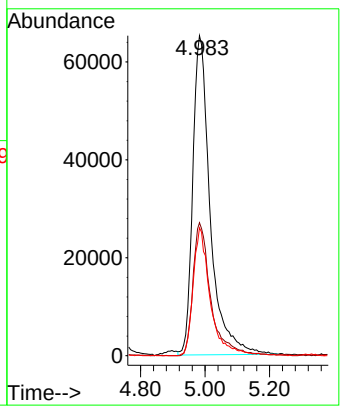




#29
Tetrahydrofuran
Concen: 253.375 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 42 Resp: 24539

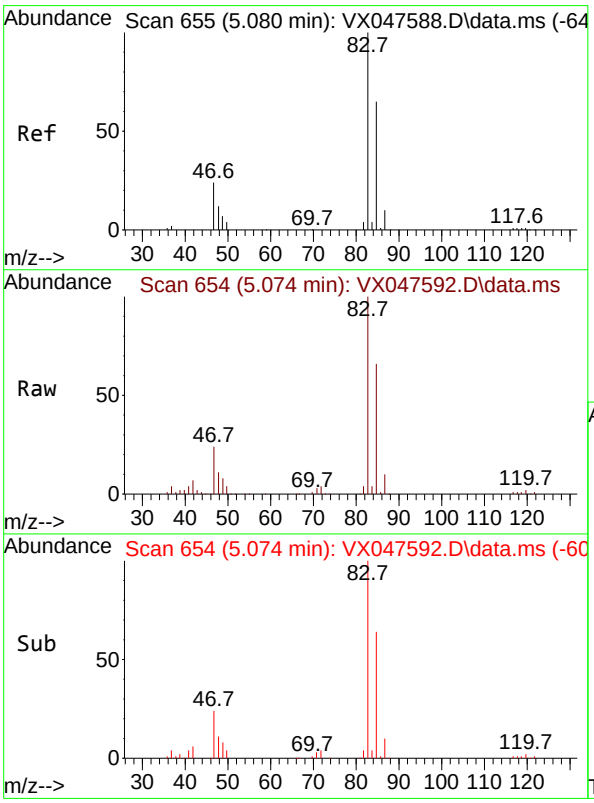
Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	38.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

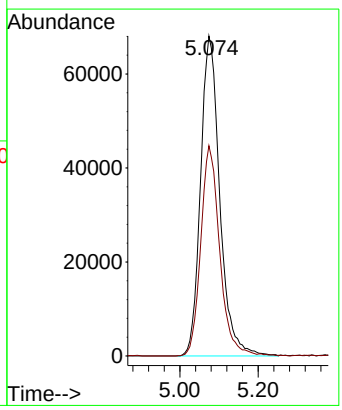
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

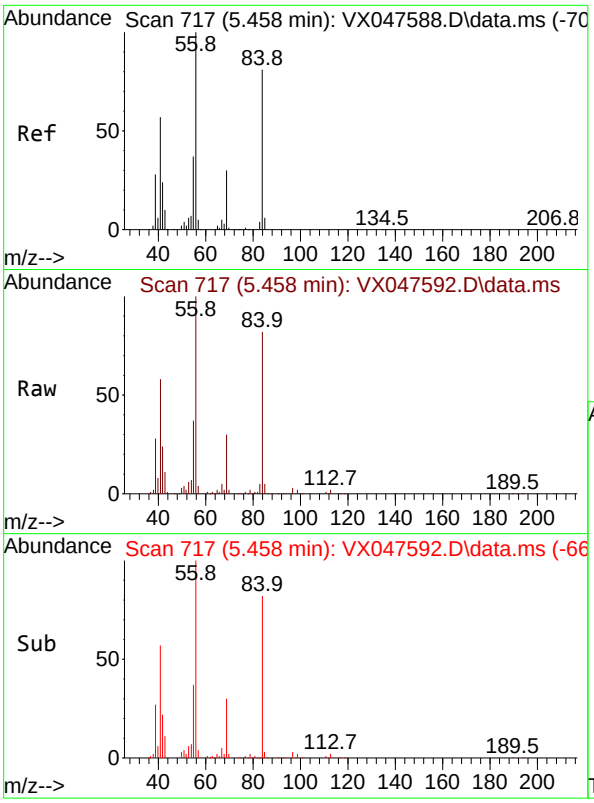


#30
Chloroform
Concen: 48.739 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 231954

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.8	77.6

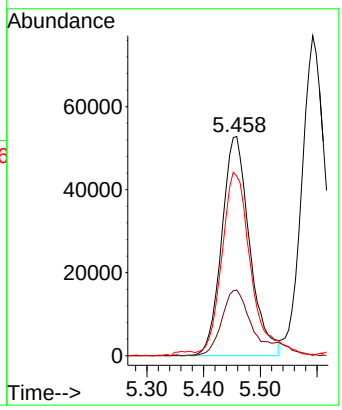




#31
Cyclohexane
Concen: 45.999 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 56 Resp: 18043

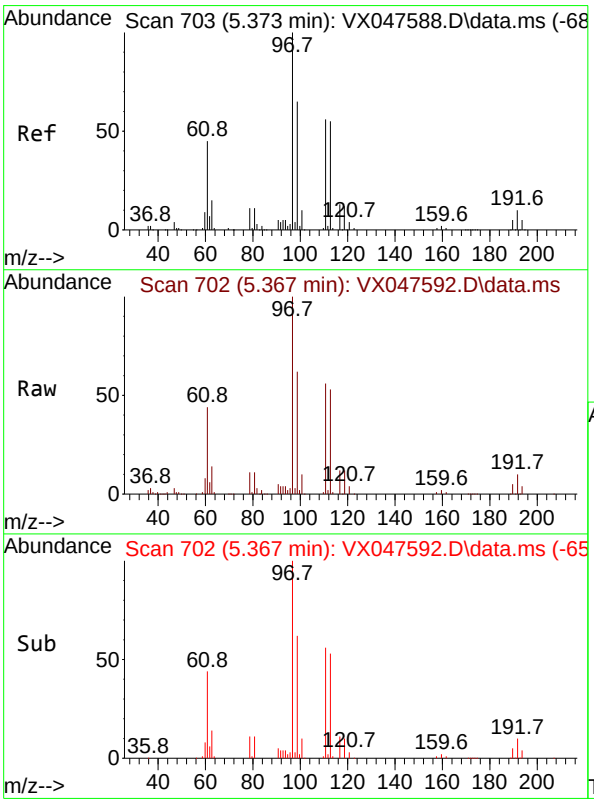
Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.8
84	80.3	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

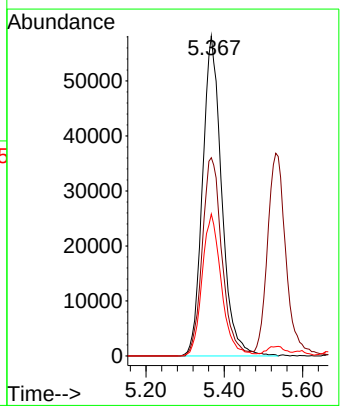
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

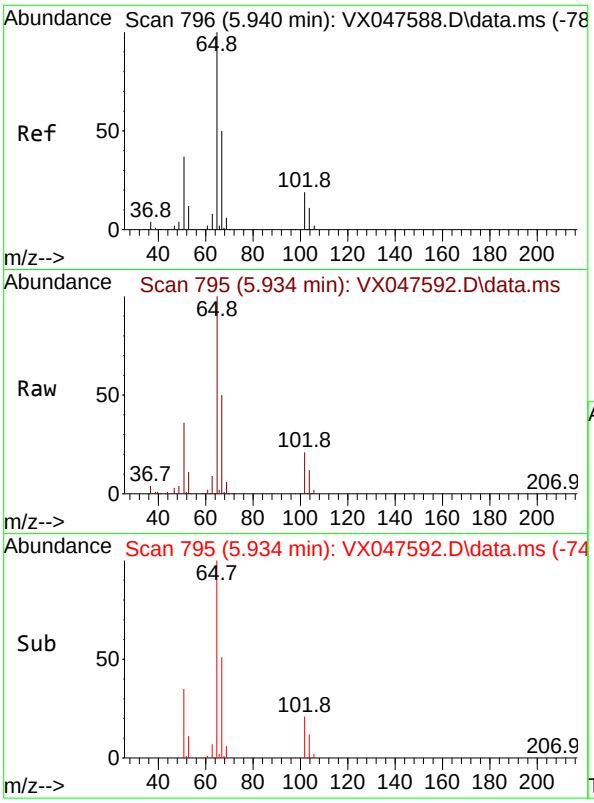


#32
1,1,1-Trichloroethane
Concen: 48.978 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 197711

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	44.6	35.8	53.8

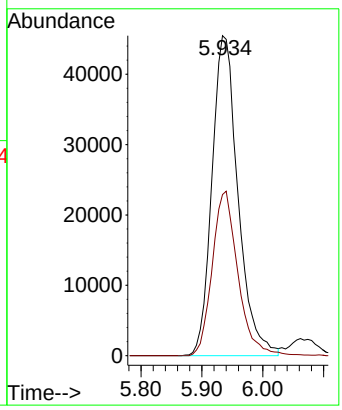




#33
1,2-Dichloroethane-d4
Concen: 45.550 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 65 Resp: 13520

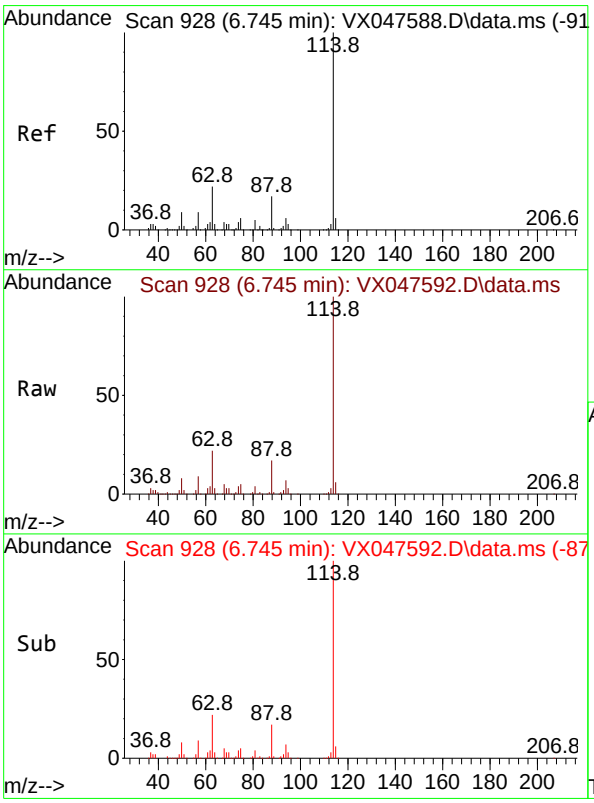
Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

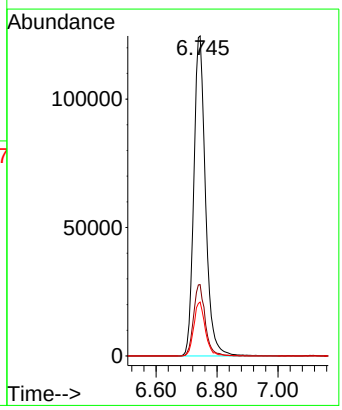
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

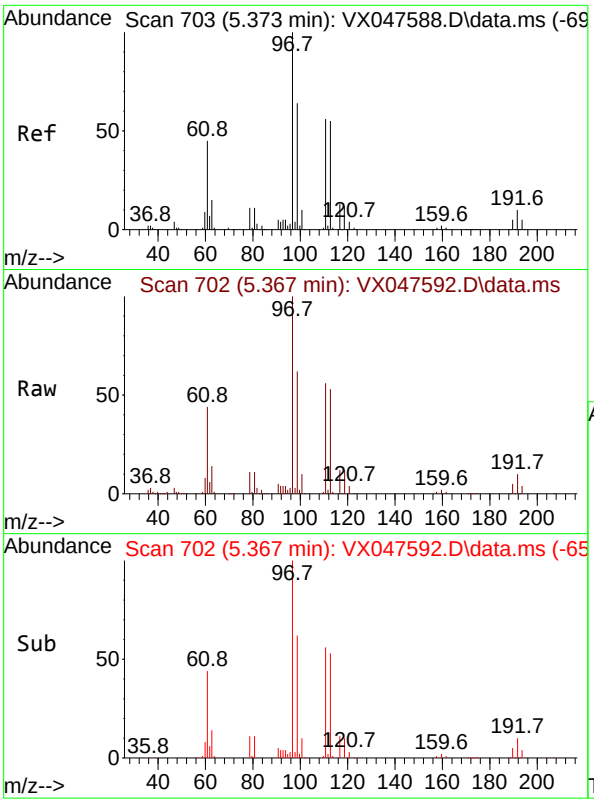


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:114 Resp: 331837

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

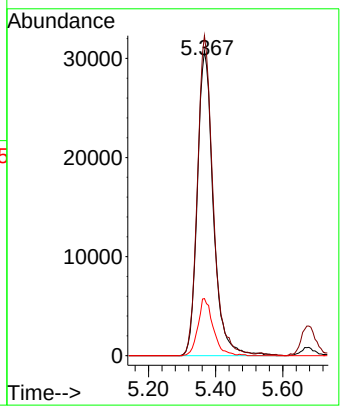




#35
Dibromofluoromethane
Concen: 45.559 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:113 Resp: 10139

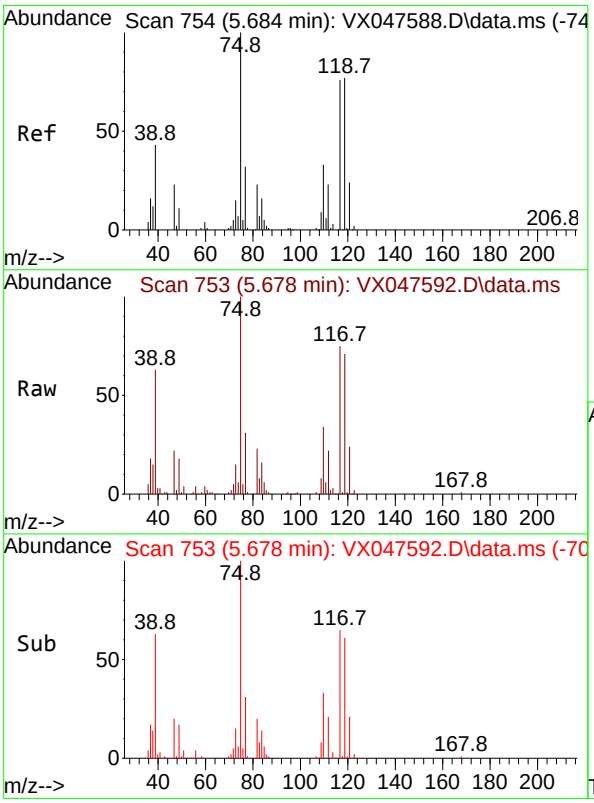
Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

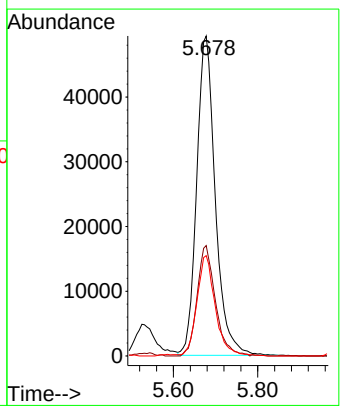
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

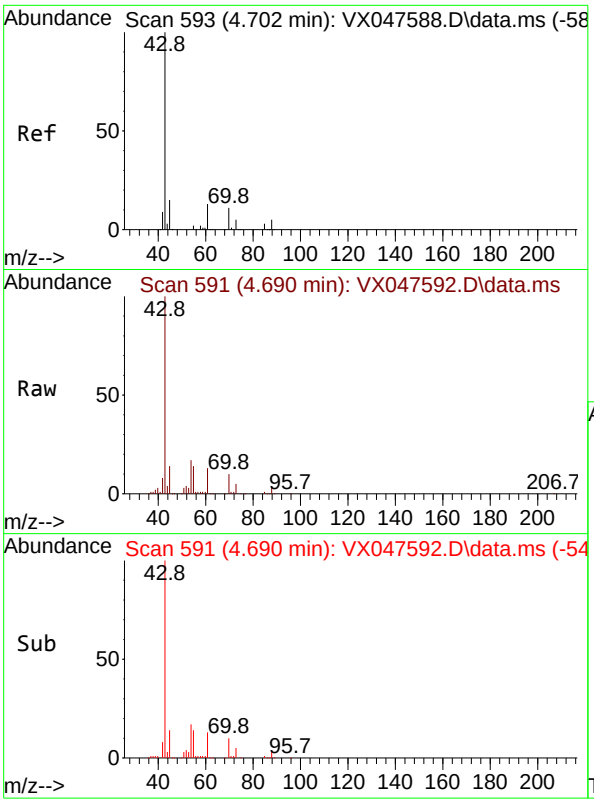


#36
1,1-Dichloropropene
Concen: 46.663 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 151745

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.0	24.3	36.5





#37
Ethyl Acetate
Concen: 49.241 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

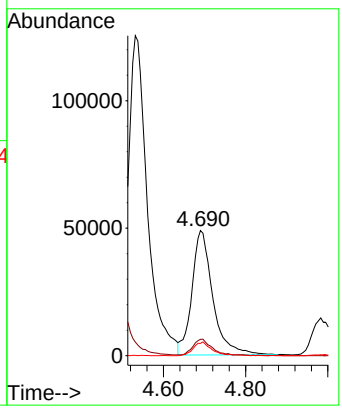
Tgt Ion: 43 Resp: 17145

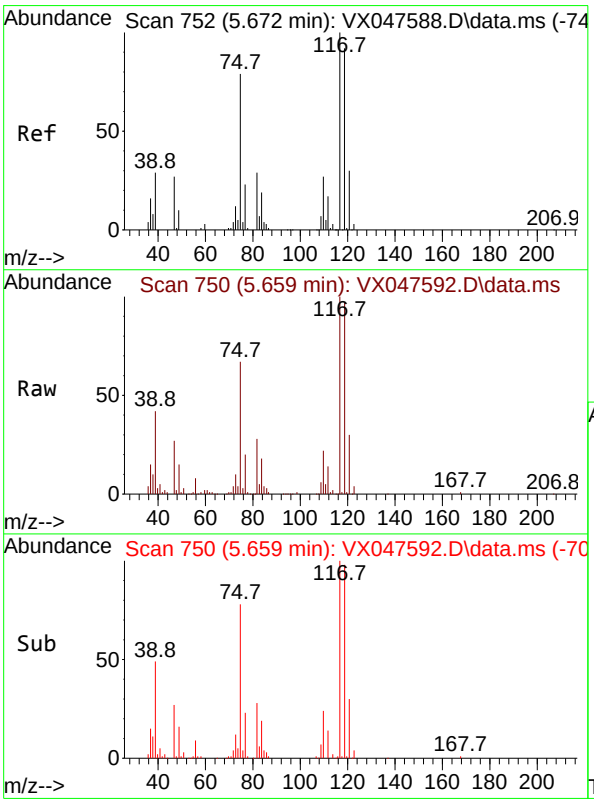
Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	9.8	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

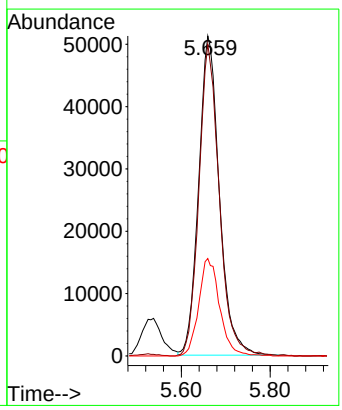


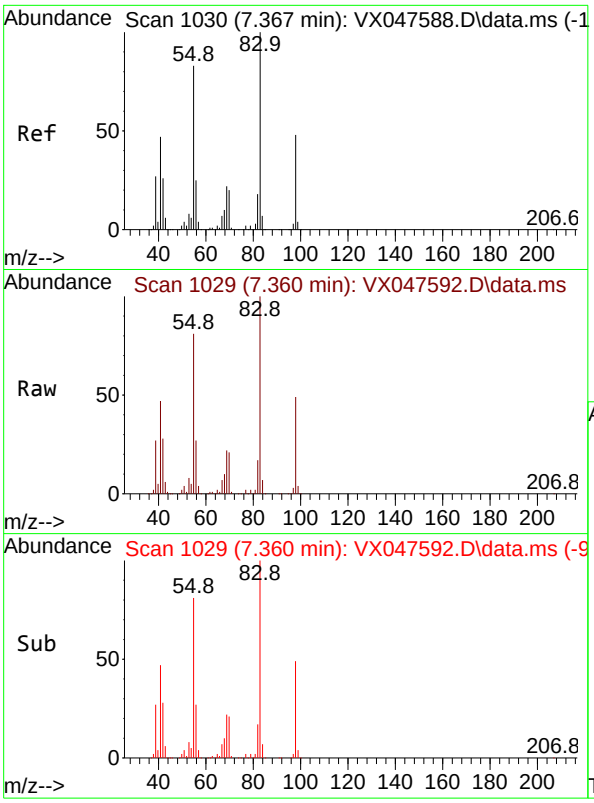


#38
Carbon Tetrachloride
Concen: 46.935 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 165834

Ion	Ratio	Lower	Upper
117	100		
119	97.6	73.4	110.2
121	30.5	23.8	35.6

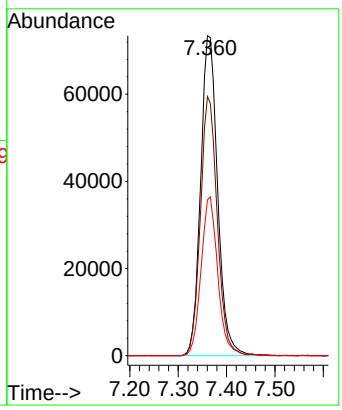




#39
Methylcyclohexane
Concen: 48.597 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 17939

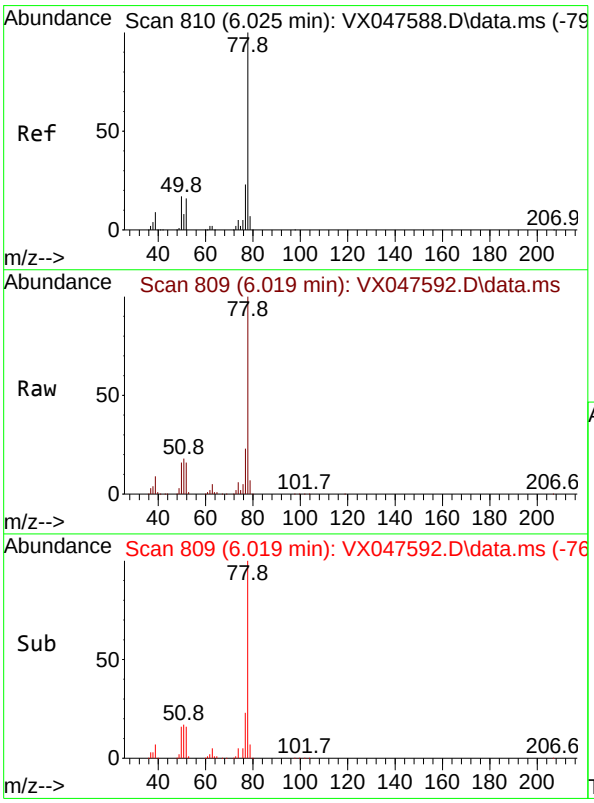
Ion	Ratio	Lower	Upper
83	100		
55	81.0	66.4	99.6
98	48.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

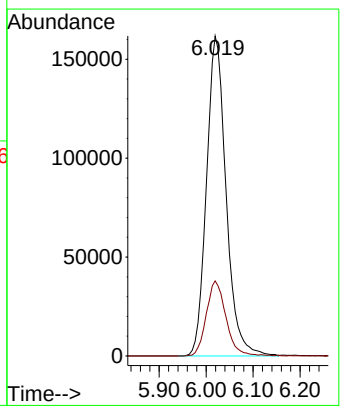
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

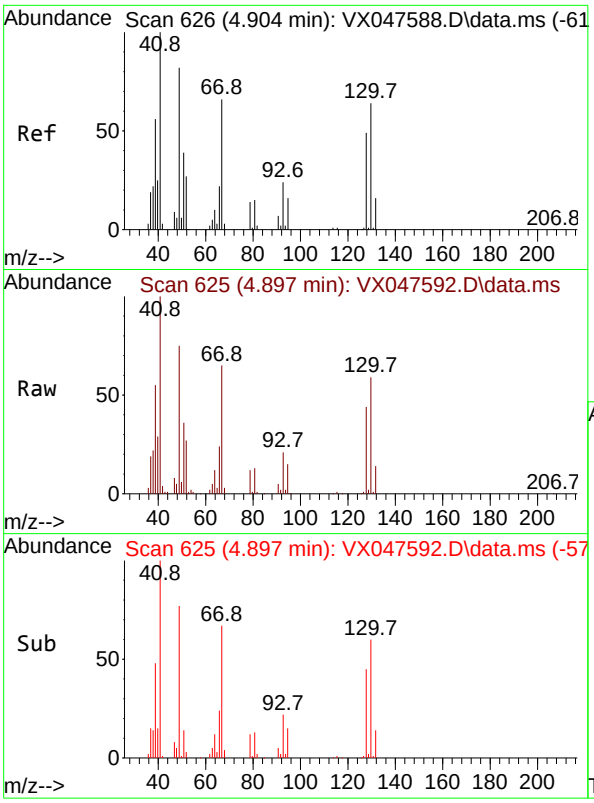


#40
Benzene
Concen: 47.357 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 78 Resp: 467748

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

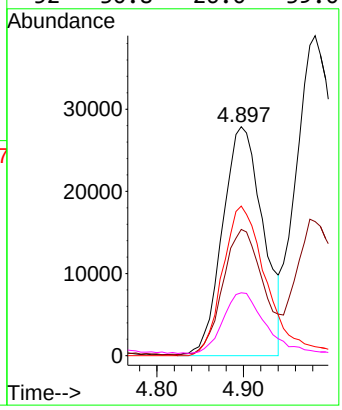




#41
Methacrylonitrile
Concen: 50.490 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 9075

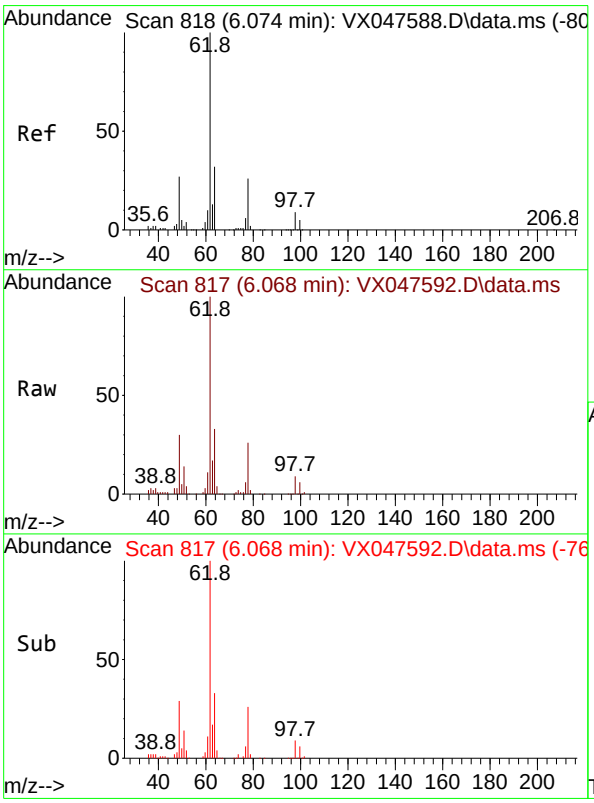
Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.3	64.9
67	72.5	58.6	87.8
52	30.8	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

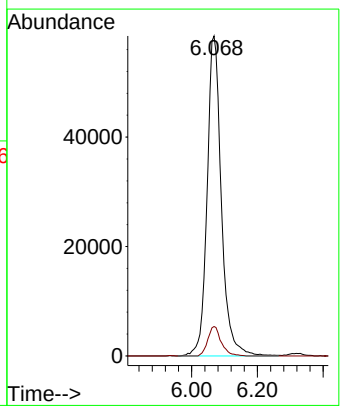
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

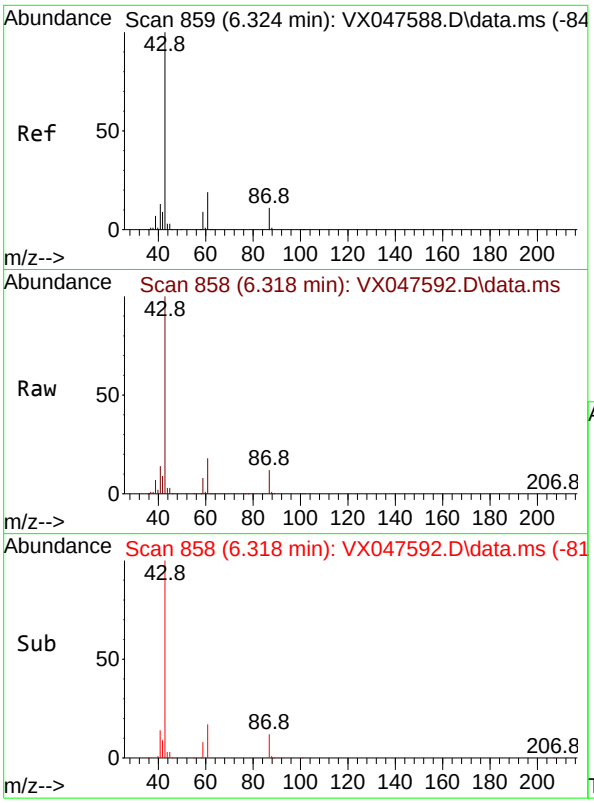


#42
1,2-Dichloroethane
Concen: 46.867 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 176131

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

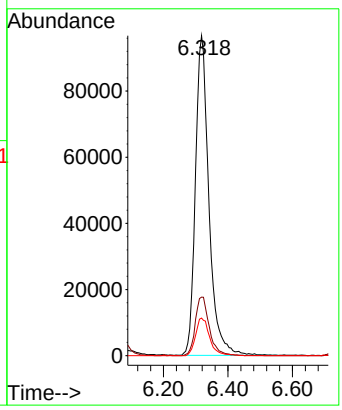




#43
Isopropyl Acetate
Concen: 49.136 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 28059

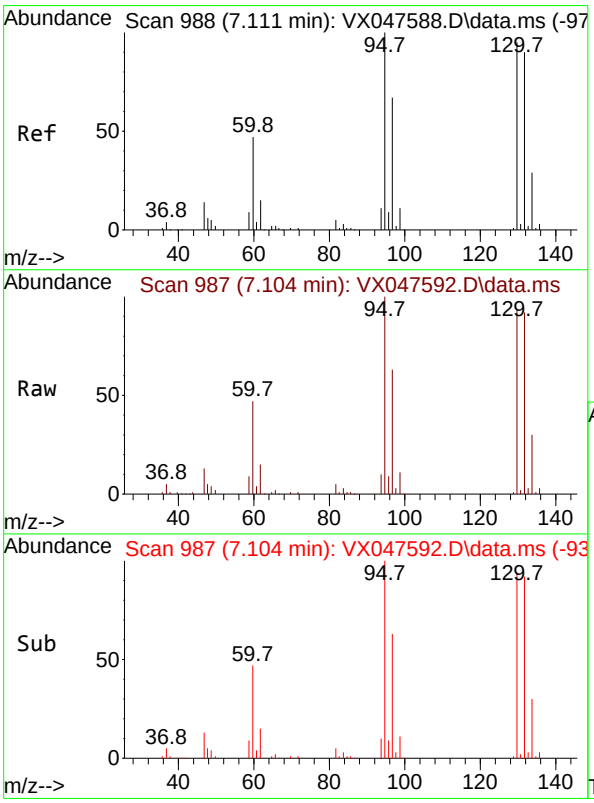
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.2	22.8
87	12.2	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

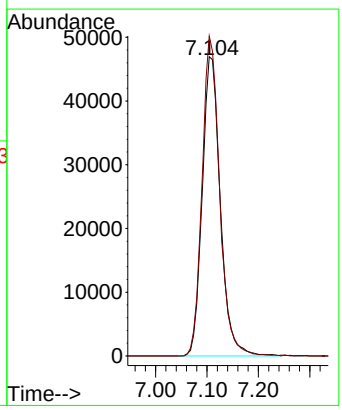
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

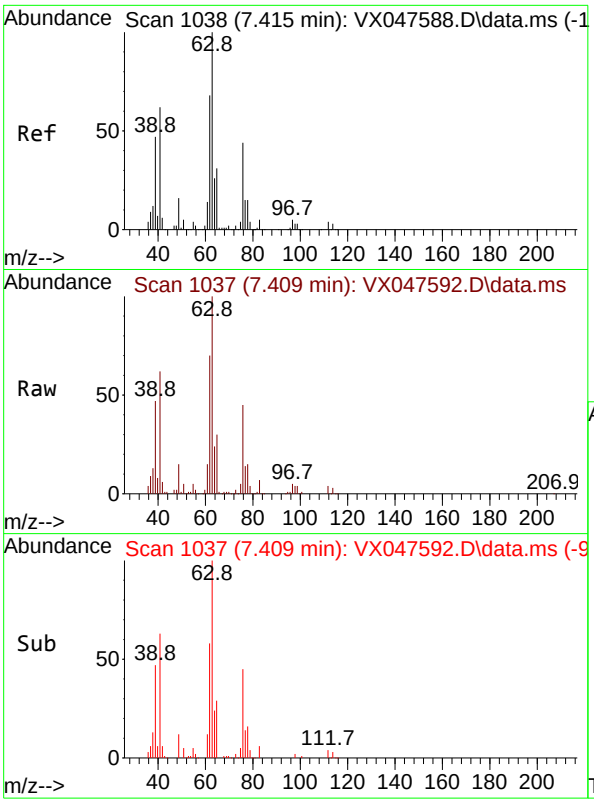


#44
Trichloroethene
Concen: 48.037 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:130 Resp: 114708

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	210.8

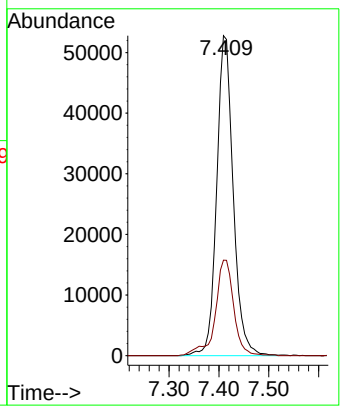




#45
1,2-Dichloropropane
Concen: 48.053 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 12153

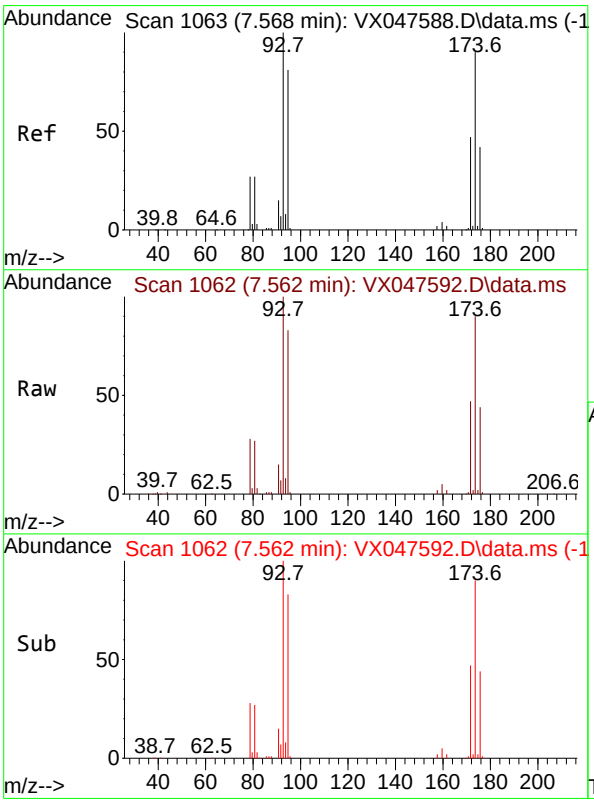
Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

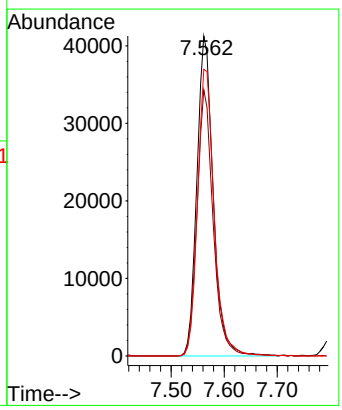
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

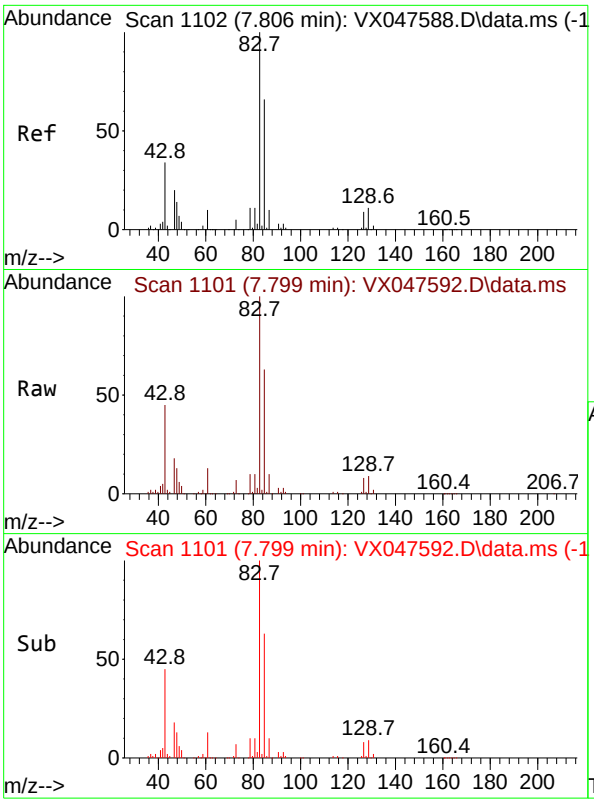


#46
Dibromomethane
Concen: 47.976 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 93 Resp: 88297

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.3	71.6	107.4

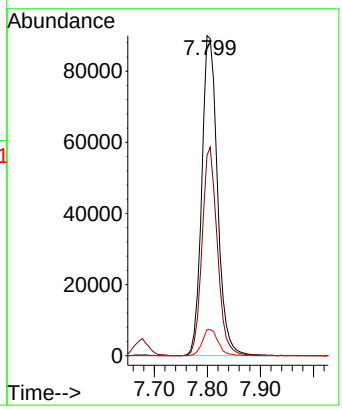




#47
Bromodichloromethane
Concen: 48.769 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 18521

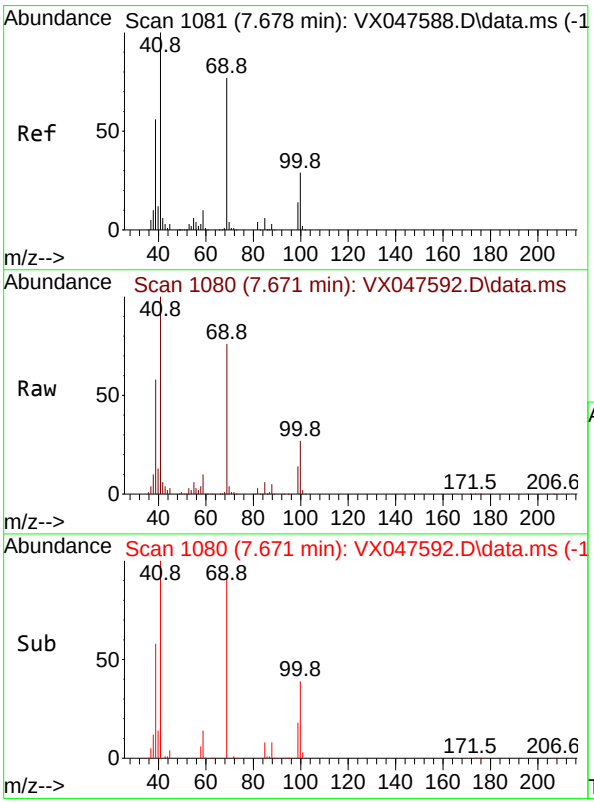
Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

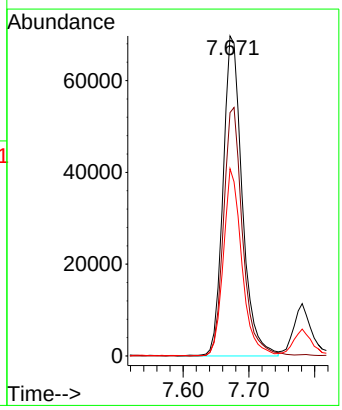
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

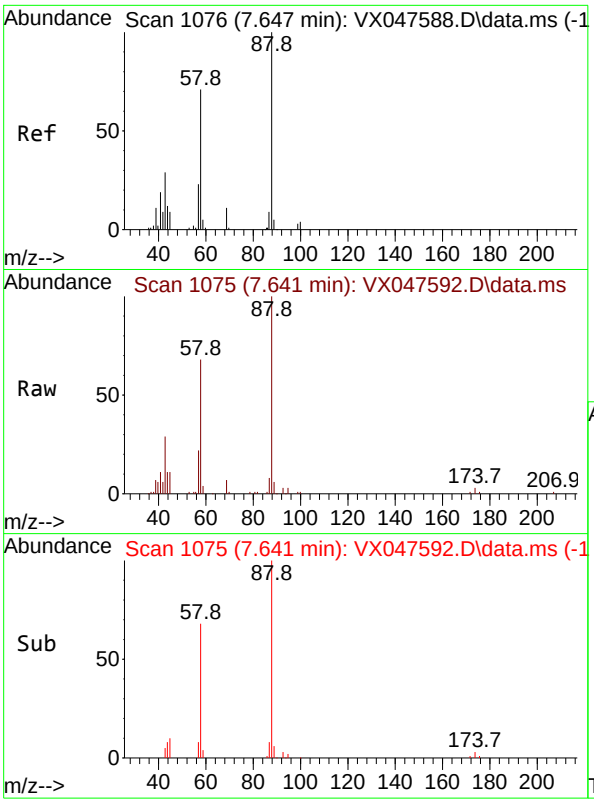


#48
Methyl methacrylate
Concen: 49.757 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 141532

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	56.4	45.8	68.6

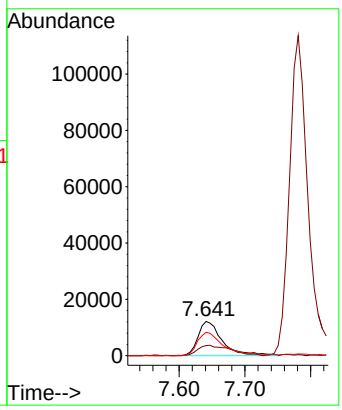




#49
1,4-Dioxane
Concen: 1089.520 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 88 Resp: 3132

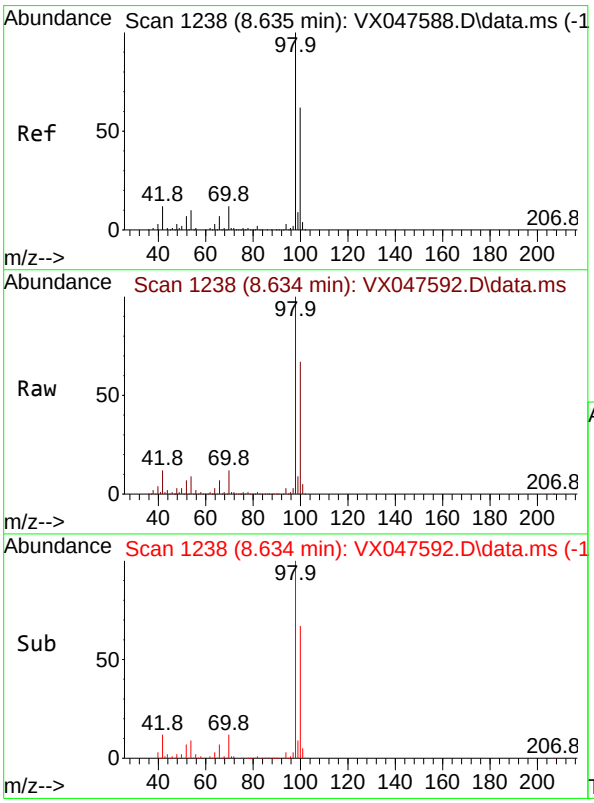
Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.2	45.2
58	74.1	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

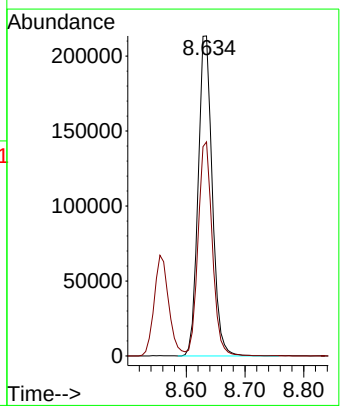
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

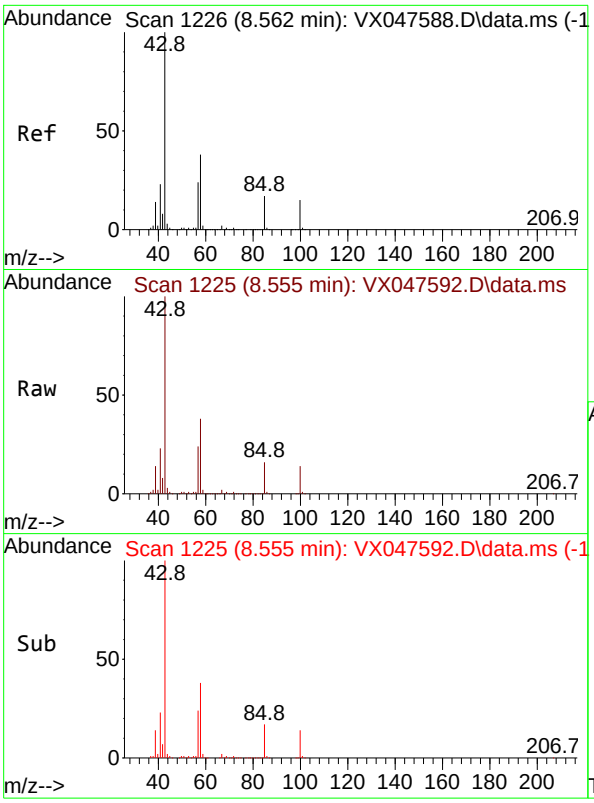


#50
Toluene-d8
Concen: 46.411 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 98 Resp: 357393

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4

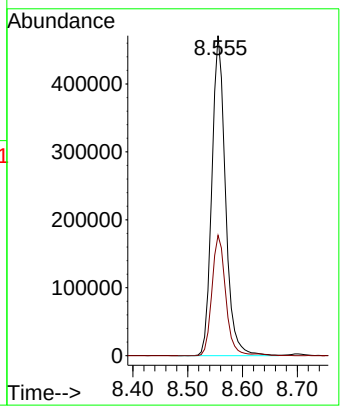




#51
4-Methyl-2-Pentanone
Concen: 255.752 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 80975

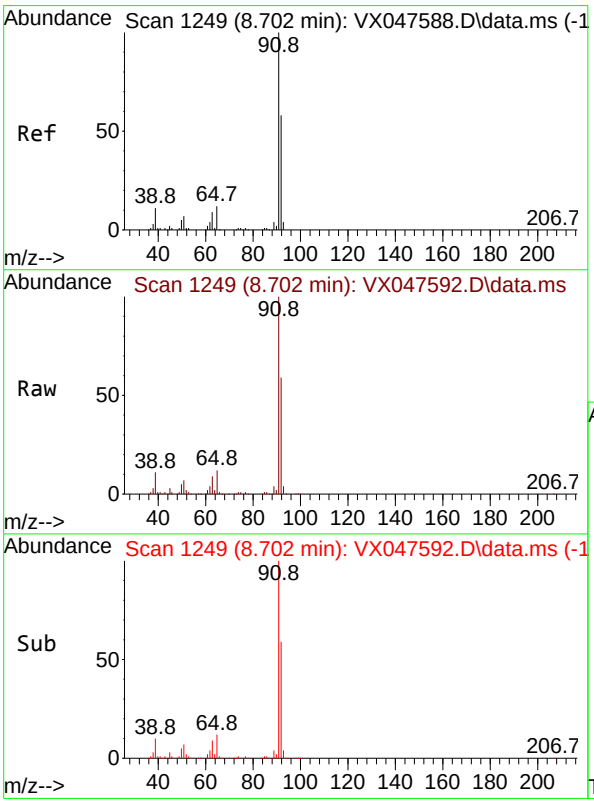
Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

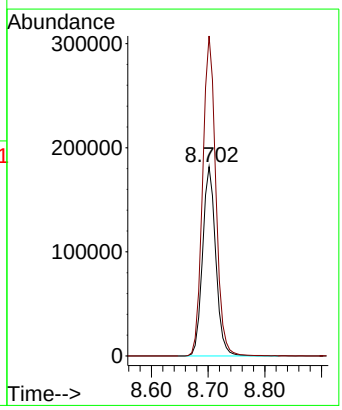
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

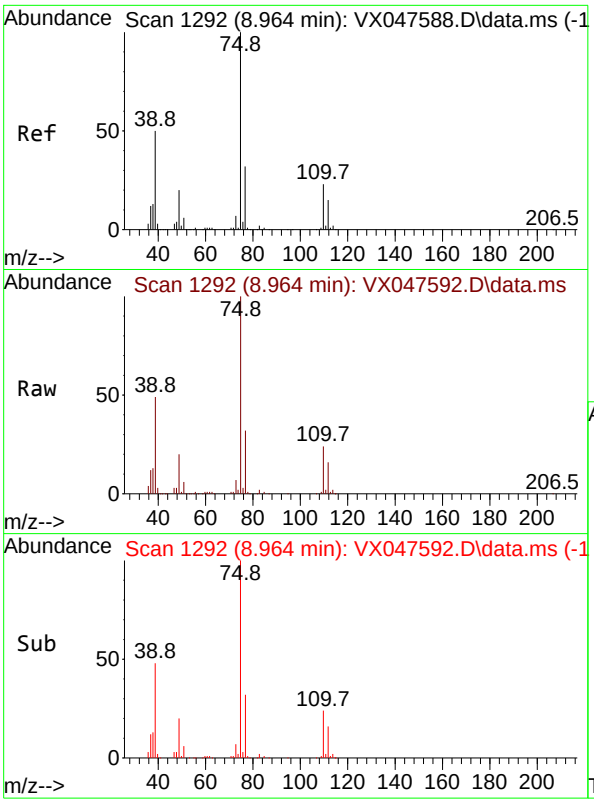


#52
Toluene
Concen: 48.130 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 92 Resp: 292879

Ion	Ratio	Lower	Upper
92	100		
91	169.4	137.1	205.7

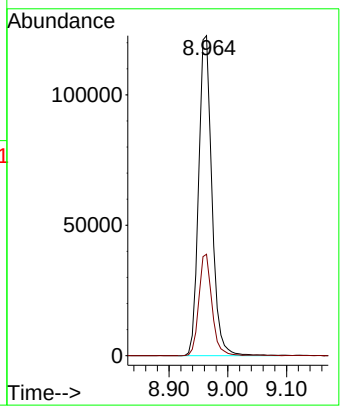




#53
t-1,3-Dichloropropene
Concen: 49.527 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 19186

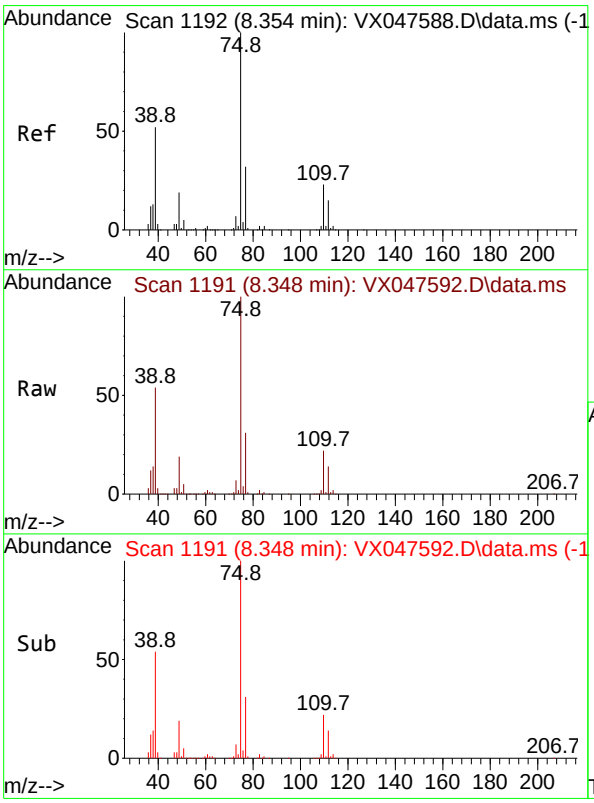
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

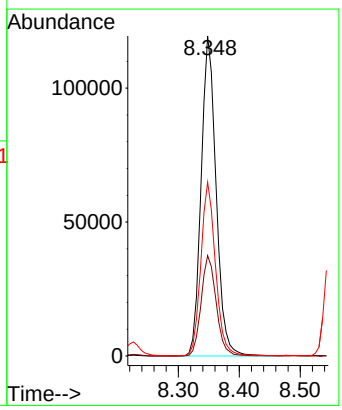
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

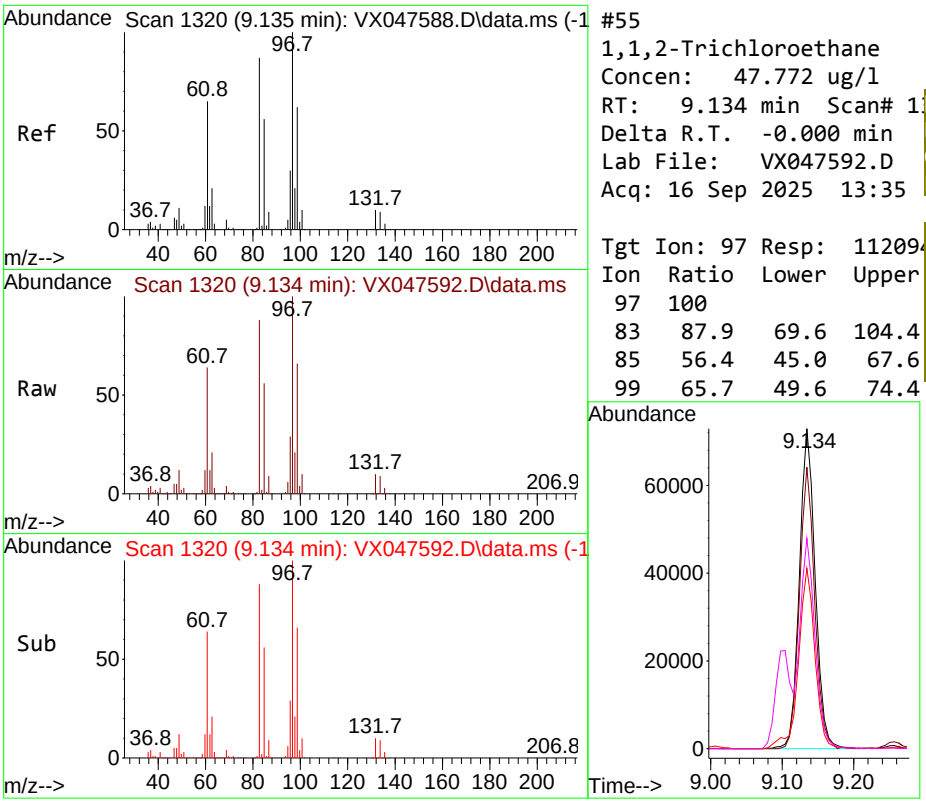


#54
cis-1,3-Dichloropropene
Concen: 49.257 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 203954

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	54.2	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 47.772 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

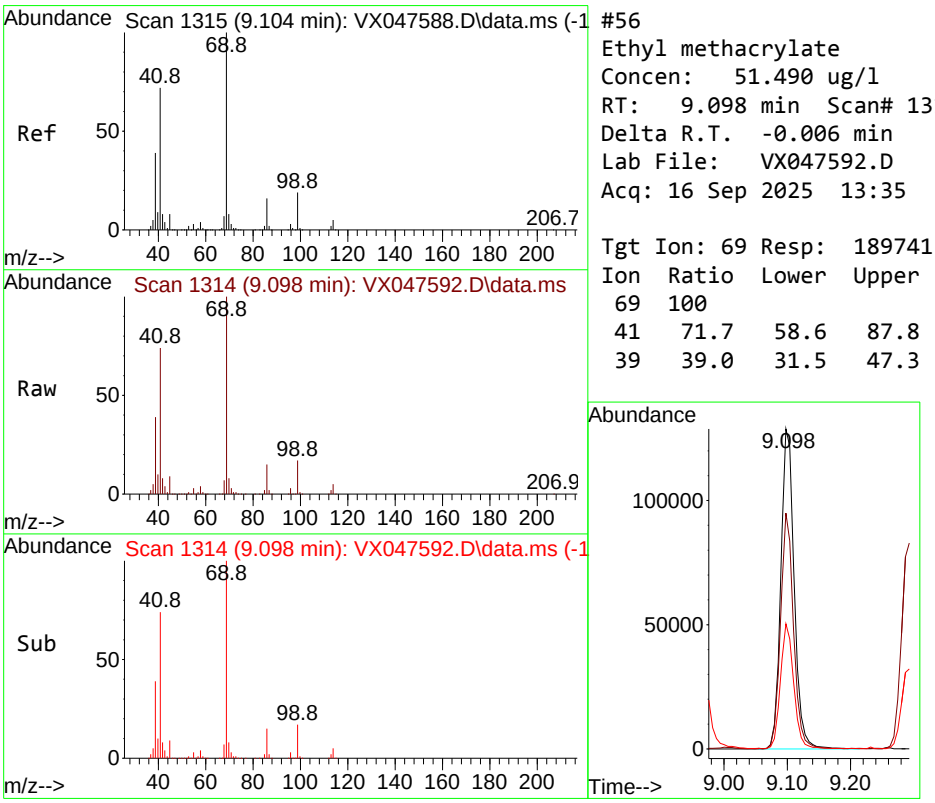
Tgt Ion: 97 Resp: 11209

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

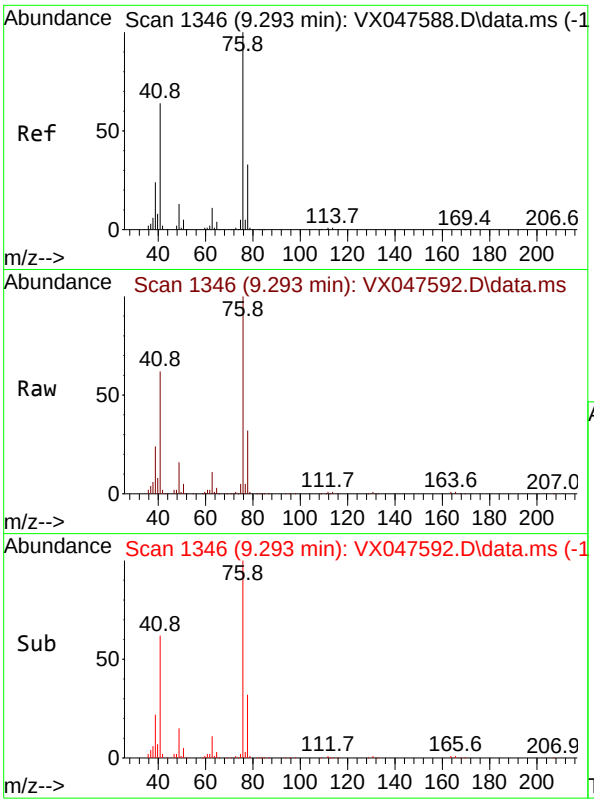
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#56
Ethyl methacrylate
Concen: 51.490 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 69 Resp: 189741

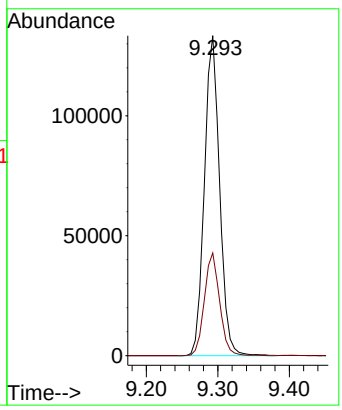
Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3



#57
1,3-Dichloropropane
Concen: 48.894 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 76 Resp: 19707

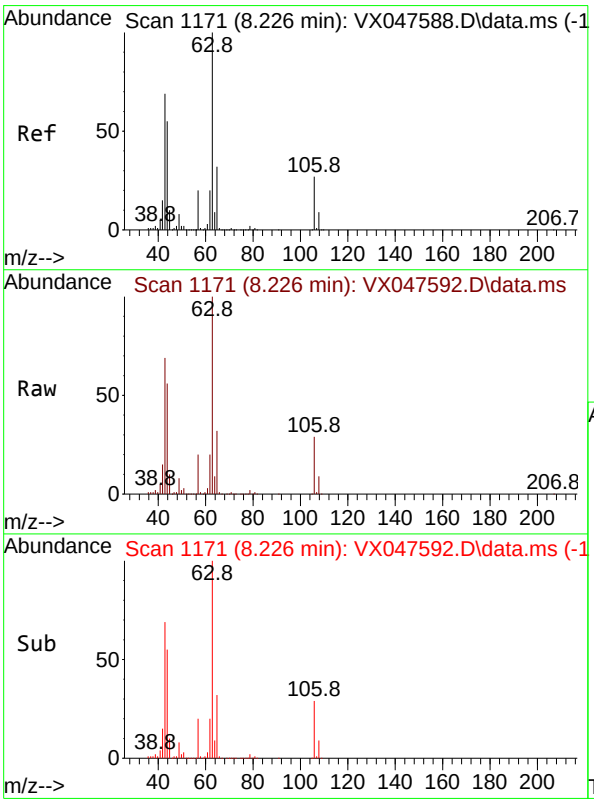
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

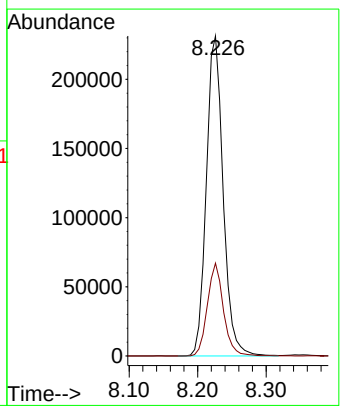
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

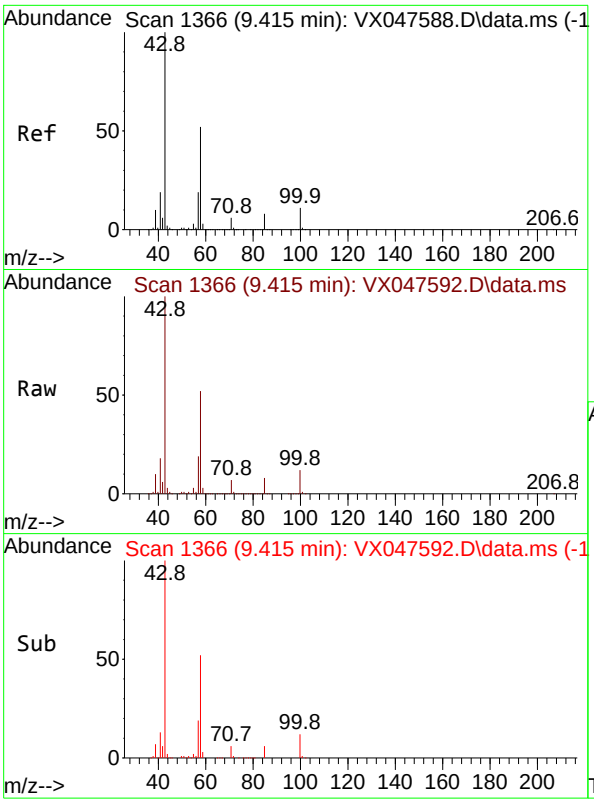


#58
2-Chloroethyl Vinyl ether
Concen: 225.562 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 394205

Ion	Ratio	Lower	Upper
63	100		
106	27.8	21.9	32.9





#59
2-Hexanone
Concen: 253.126 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

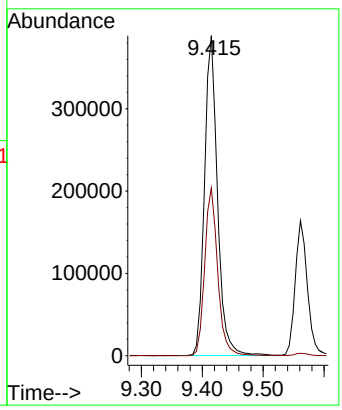
Tgt Ion: 43 Resp: 57559

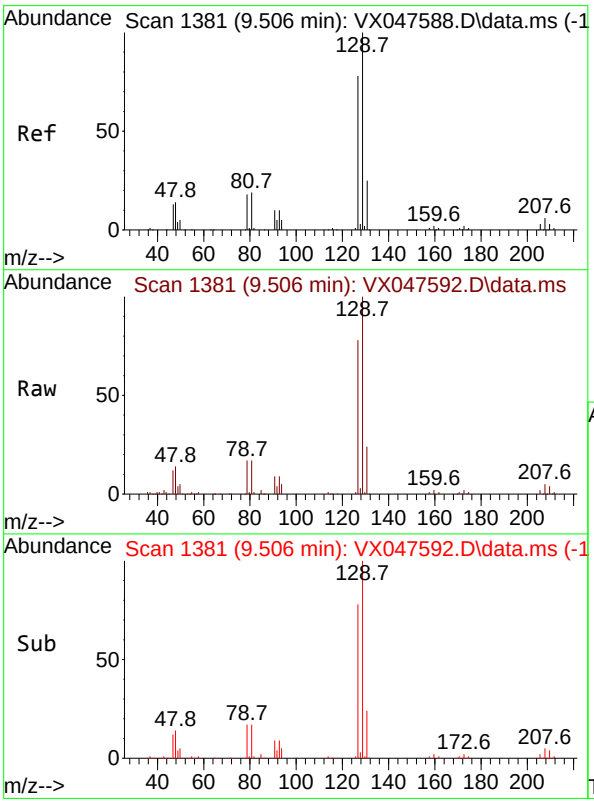
Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

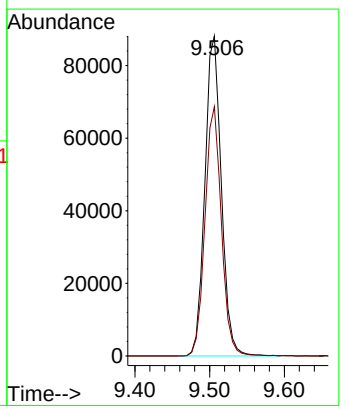


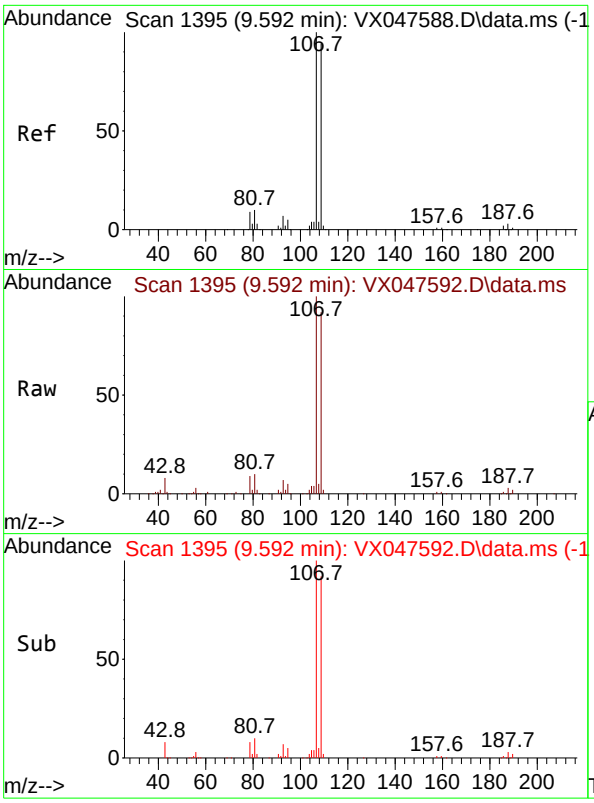


#60
Dibromochloromethane
Concen: 49.824 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:129 Resp: 134704

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.4	115.2

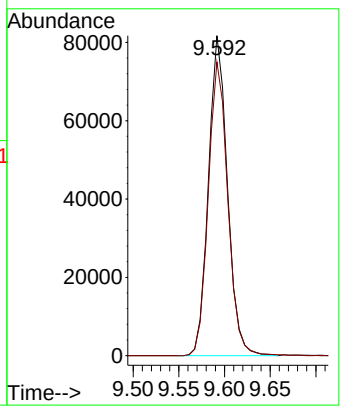




#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:107 Resp: 11781

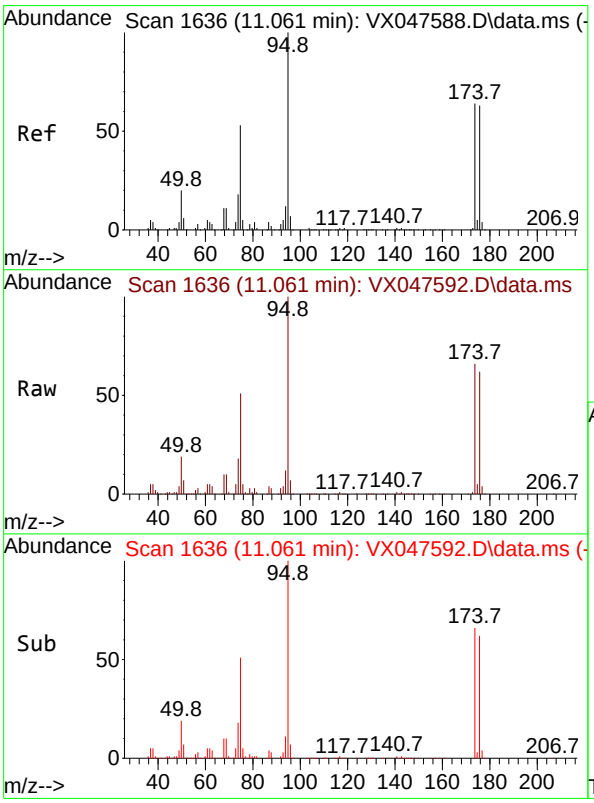
Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

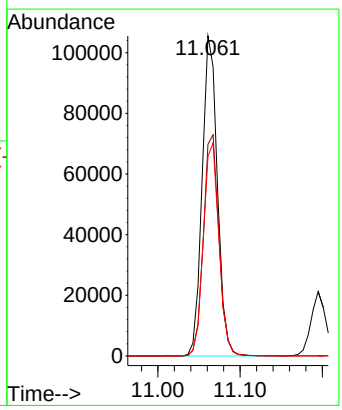
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

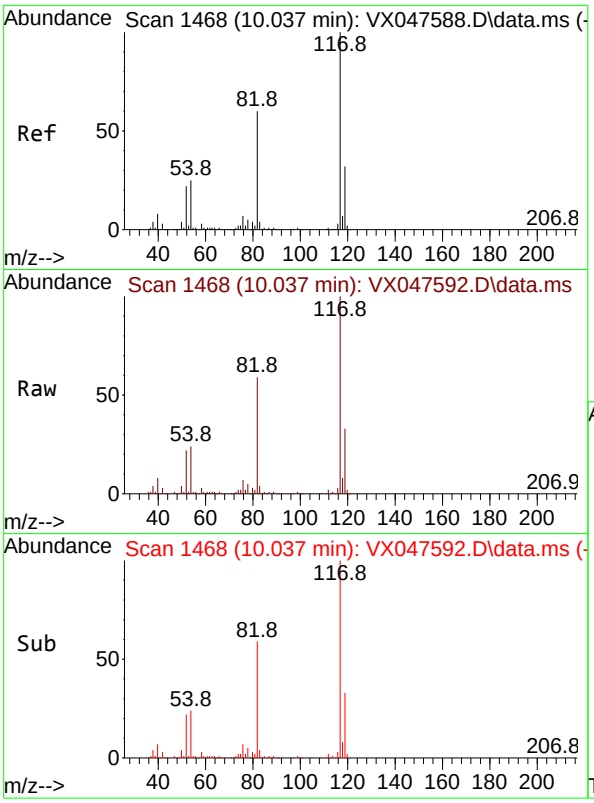


#62
4-Bromofluorobenzene
Concen: 46.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 95 Resp: 135957

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	141.6
176	68.0	0.0	138.4

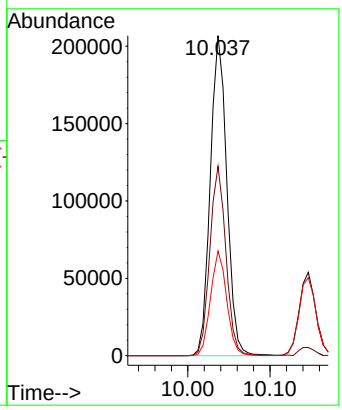




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 28866

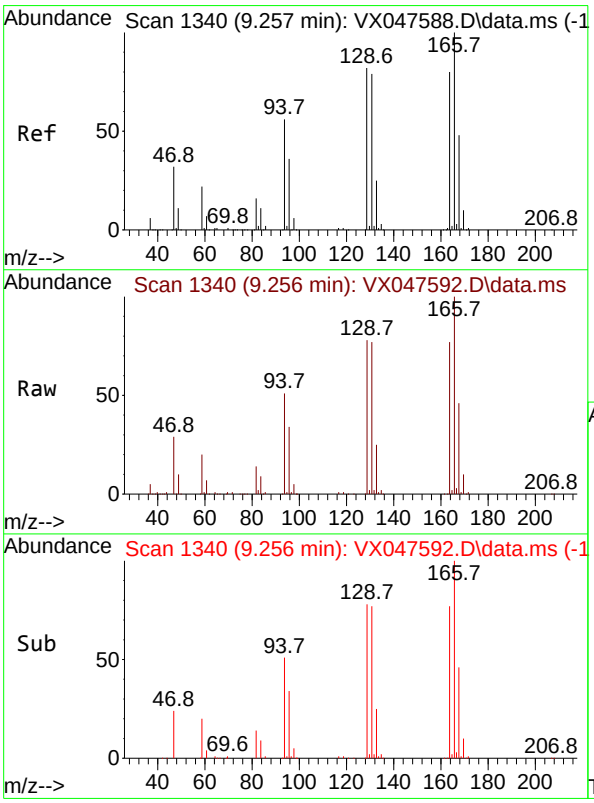
Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.6
119	32.7	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

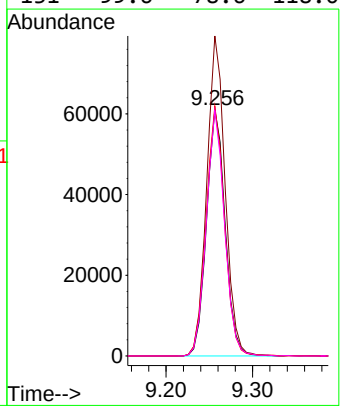
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

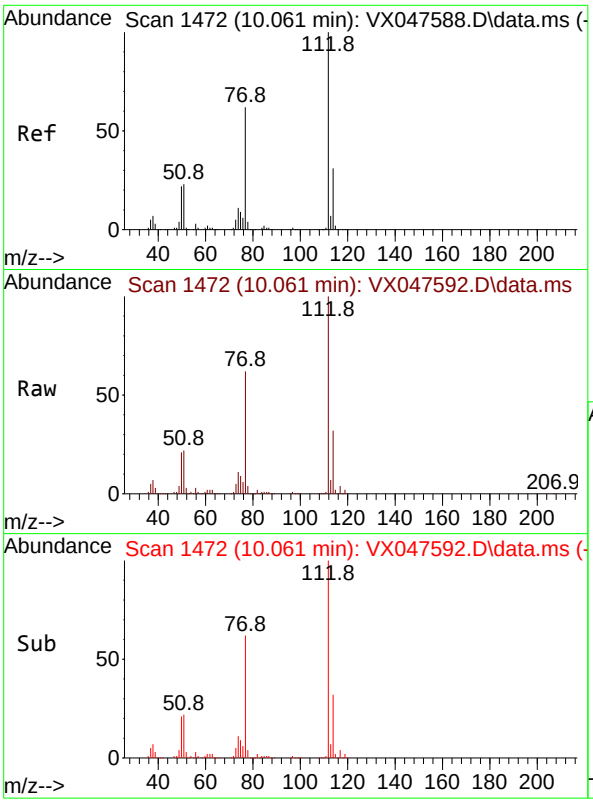


#64
Tetrachloroethene
Concen: 48.296 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:164 Resp: 90881

Ion	Ratio	Lower	Upper
164	100		
166	129.8	100.2	150.2
129	101.3	81.8	122.6
131	99.6	78.6	118.0

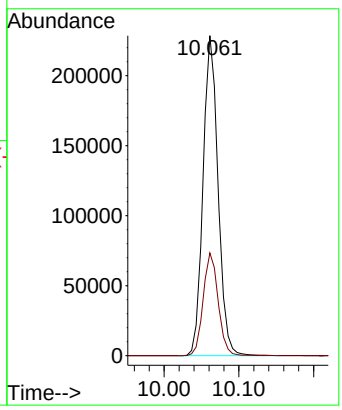




#65
Chlorobenzene
Concen: 48.549 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:112 Resp: 31837

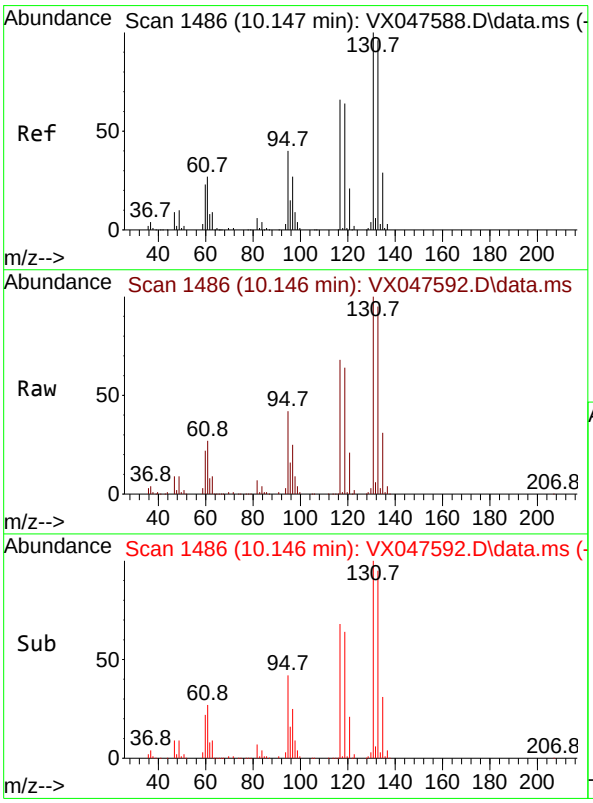
Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

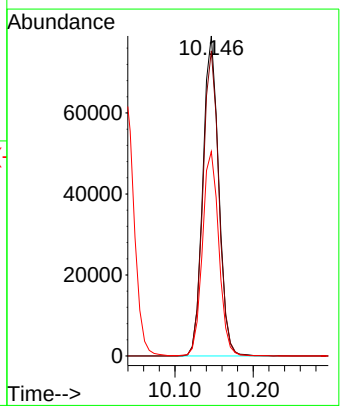
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

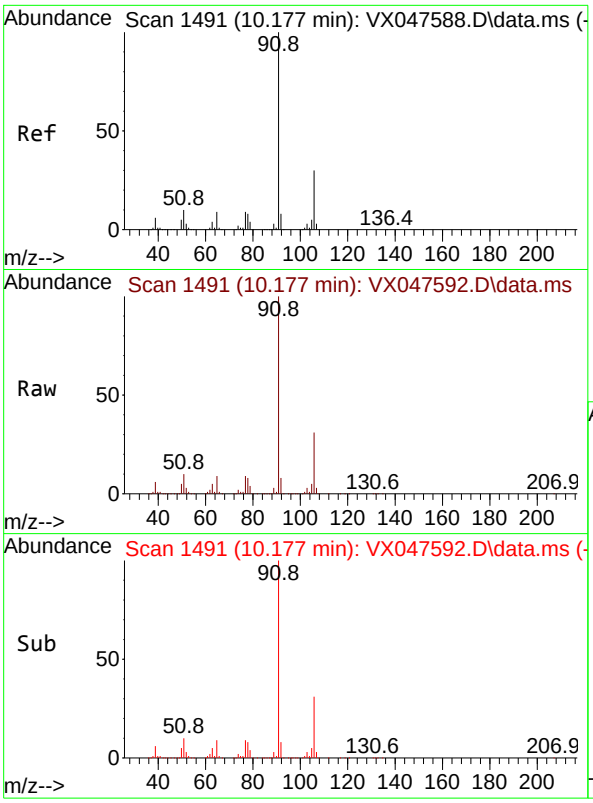


#66
1,1,1,2-Tetrachloroethane
Concen: 48.794 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:131 Resp: 110416

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	66.3	32.0	96.0

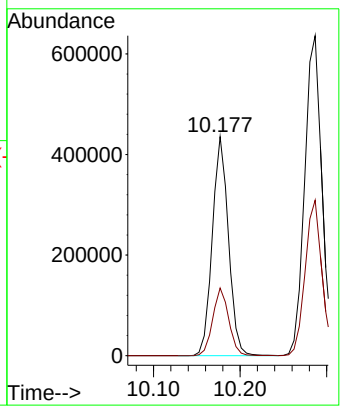




#67
Ethyl Benzene
Concen: 49.813 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 56363

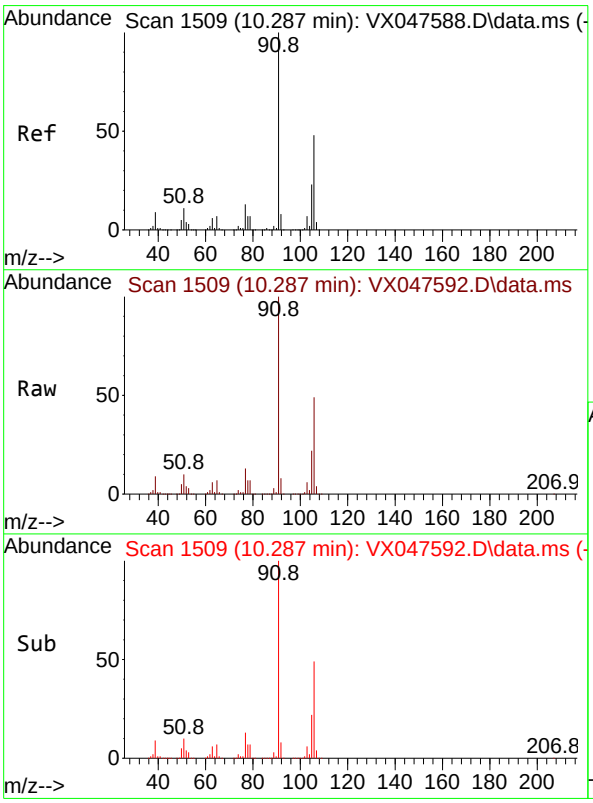
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

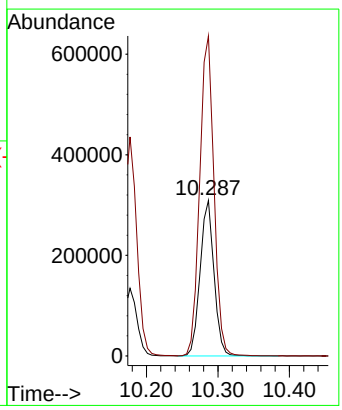
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

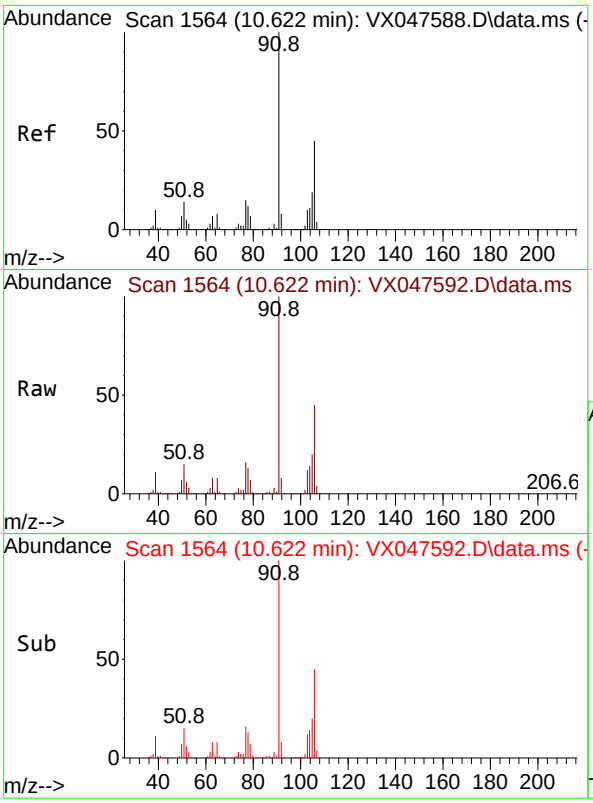


#68
m/p-Xylenes
Concen: 98.956 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 416757

Ion	Ratio	Lower	Upper
106	100		
91	211.1	167.8	251.8

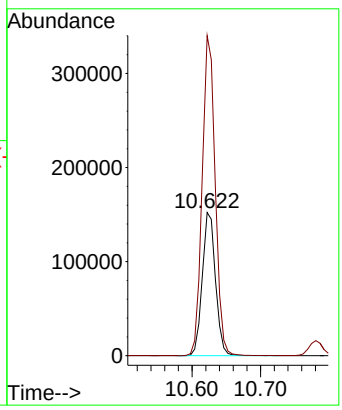




#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 20432

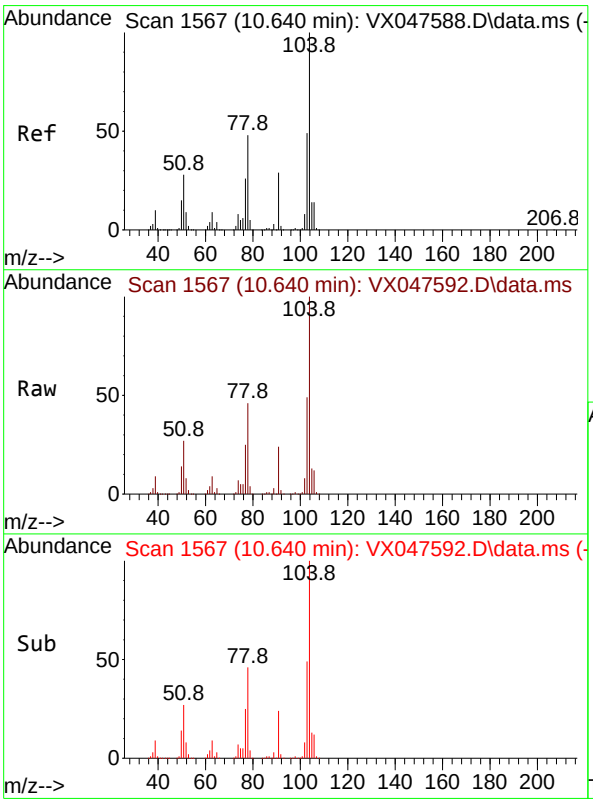
Ion	Ratio	Lower	Upper
106	100		
91	221.0	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

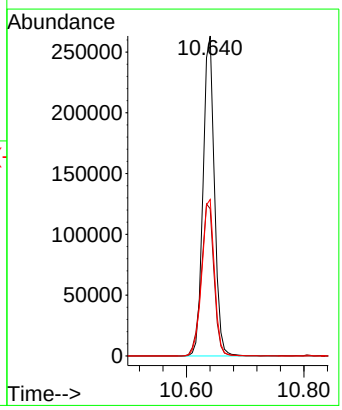
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

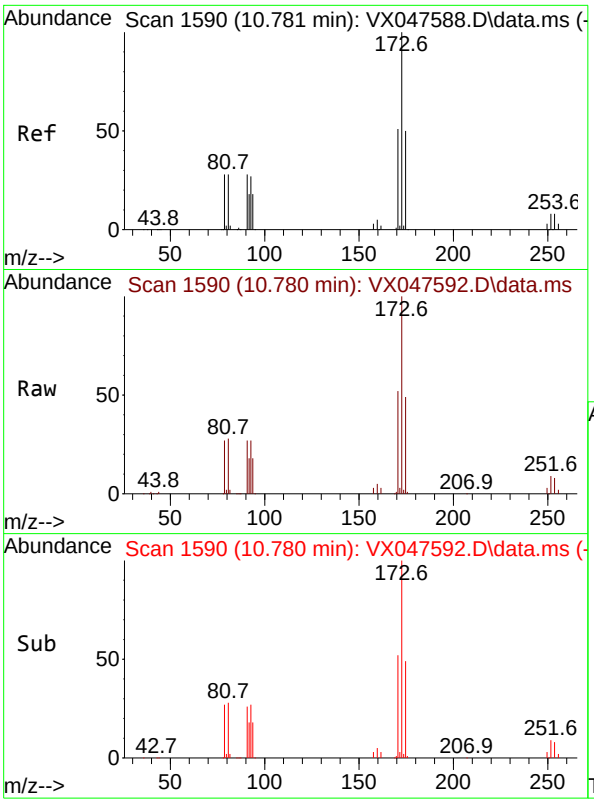


#70
Styrene
Concen: 49.536 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:104 Resp: 353567

Ion	Ratio	Lower	Upper
104	100		
78	53.4	43.1	64.7
103	54.3	43.1	64.7





#71
Bromoform
Concen: 51.207 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

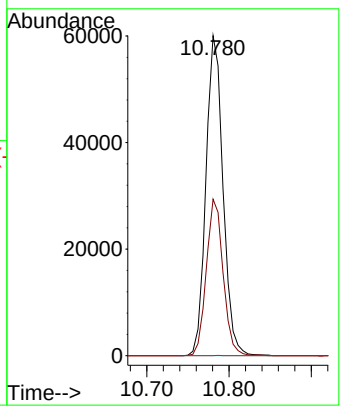
Tgt Ion:173 Resp: 8652

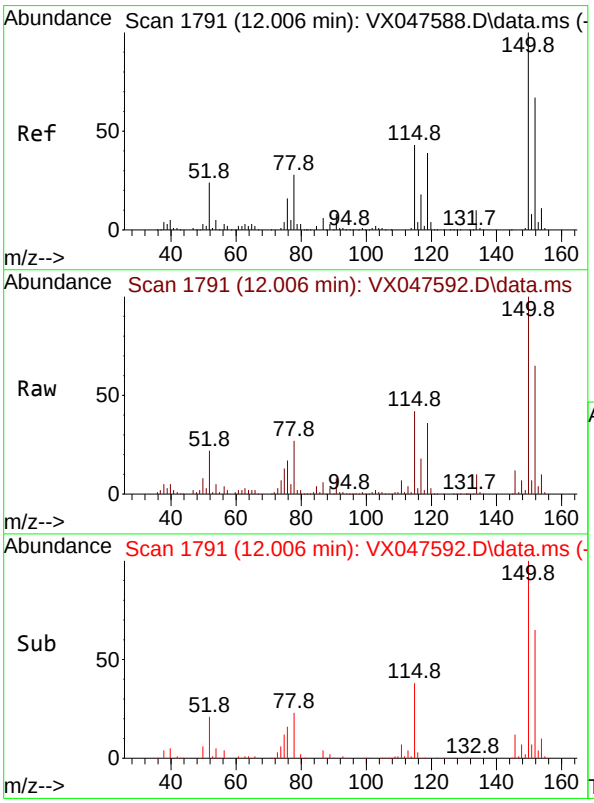
Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.9	74.6
254	0.0	0.1	0.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

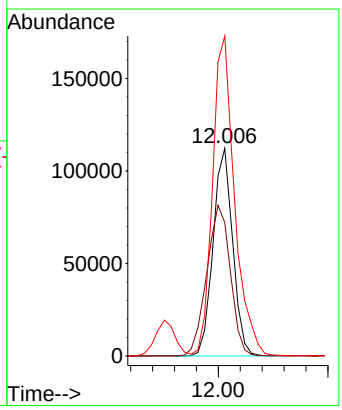


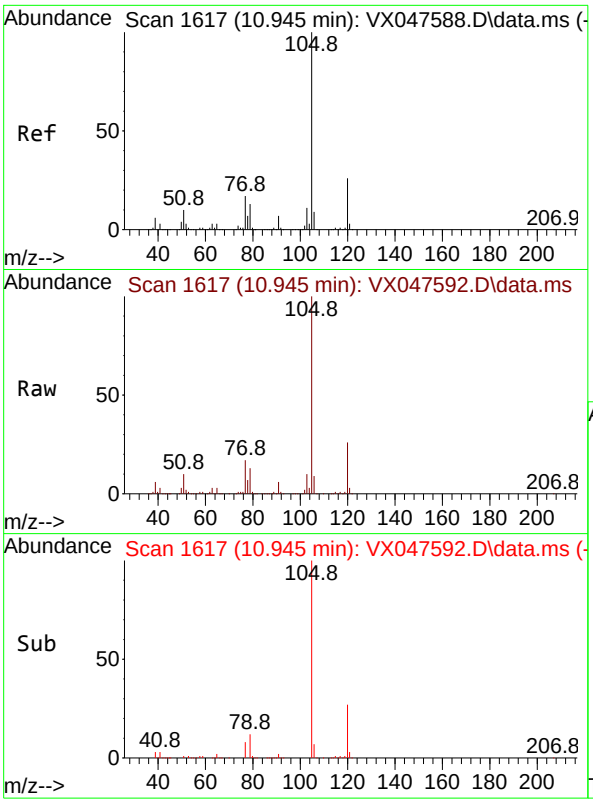


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:152 Resp: 139252

Ion	Ratio	Lower	Upper
152	100		
115	87.5	44.9	134.5
150	173.5	0.0	352.0

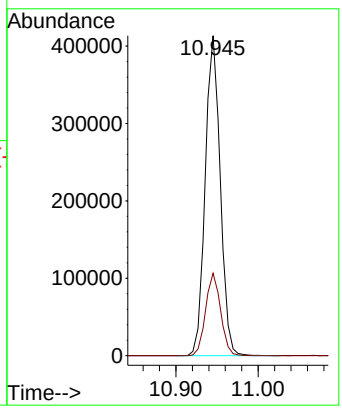




#73
Isopropylbenzene
Concen: 49.479 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 52382

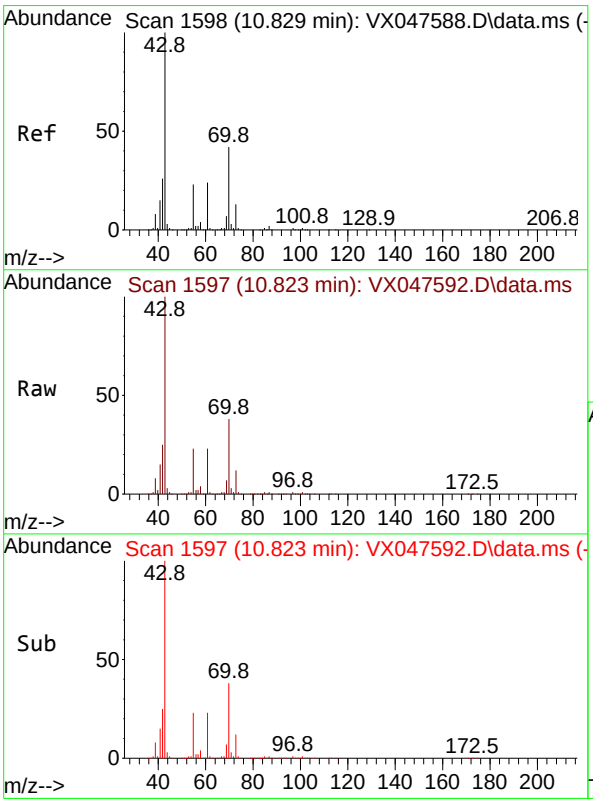
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

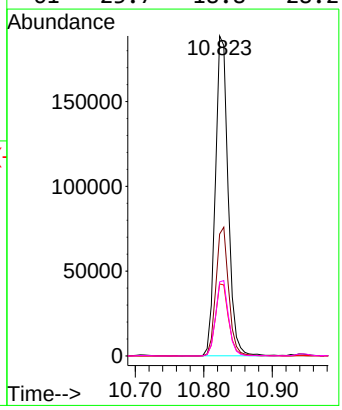
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

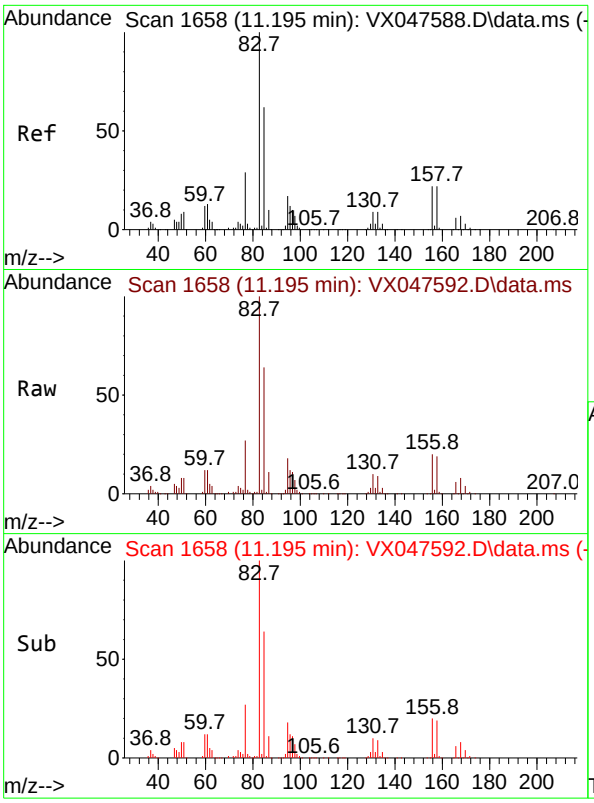


#74
N-amyl acetate
Concen: 50.375 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 243198

Ion	Ratio	Lower	Upper
43	100		
70	40.2	32.0	48.0
55	23.2	18.9	28.3
61	23.7	18.8	28.2

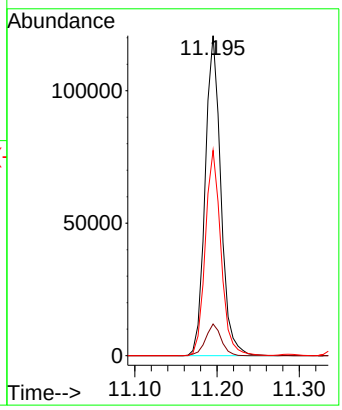




#75
1,1,2,2-Tetrachloroethane
Concen: 49.851 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 15967

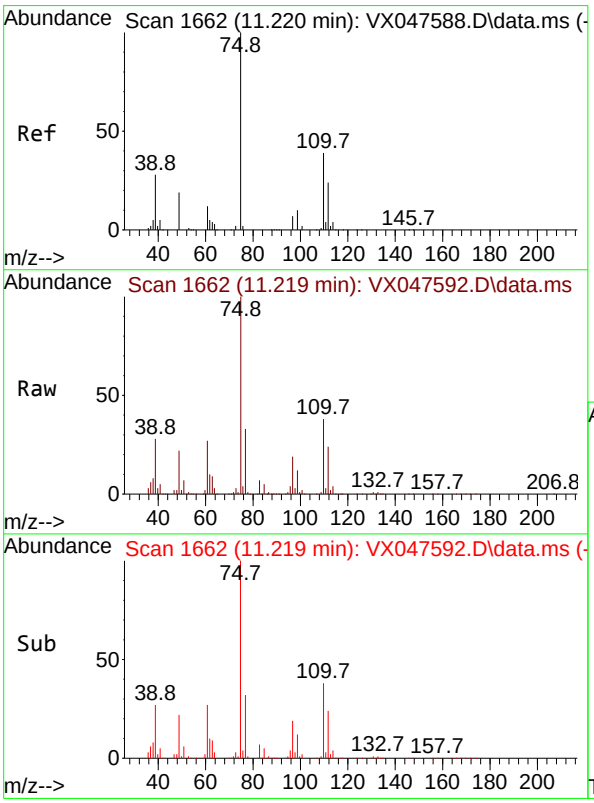
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

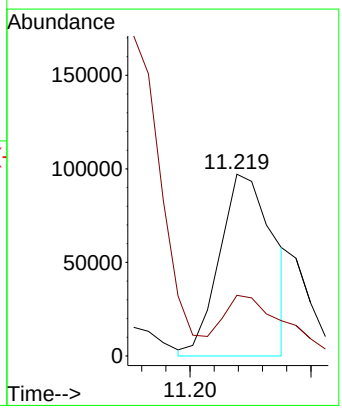
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

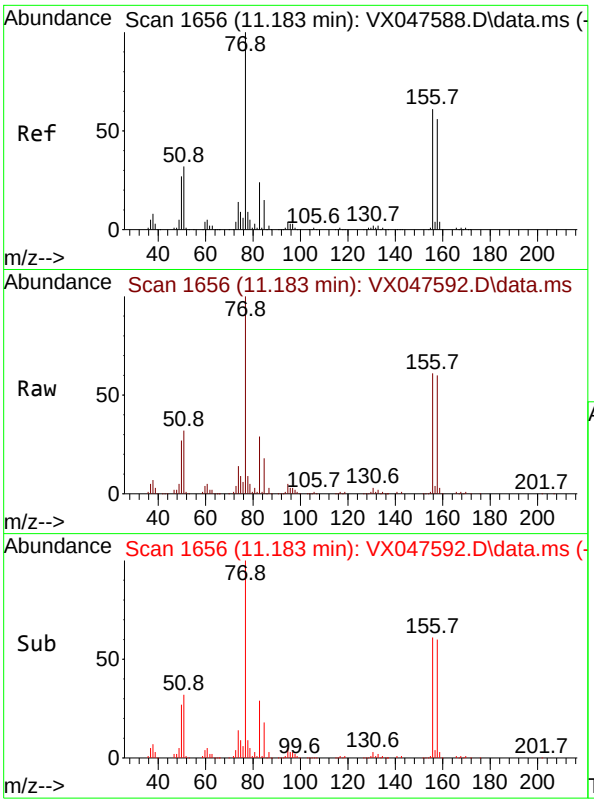


#76
1,2,3-Trichloropropane
Concen: 53.124 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 149779

Ion	Ratio	Lower	Upper
75	100		
77	38.0	18.8	56.4

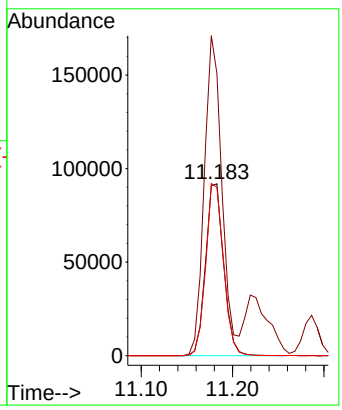




#77
Bromobenzene
Concen: 48.173 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:156 Resp: 12561

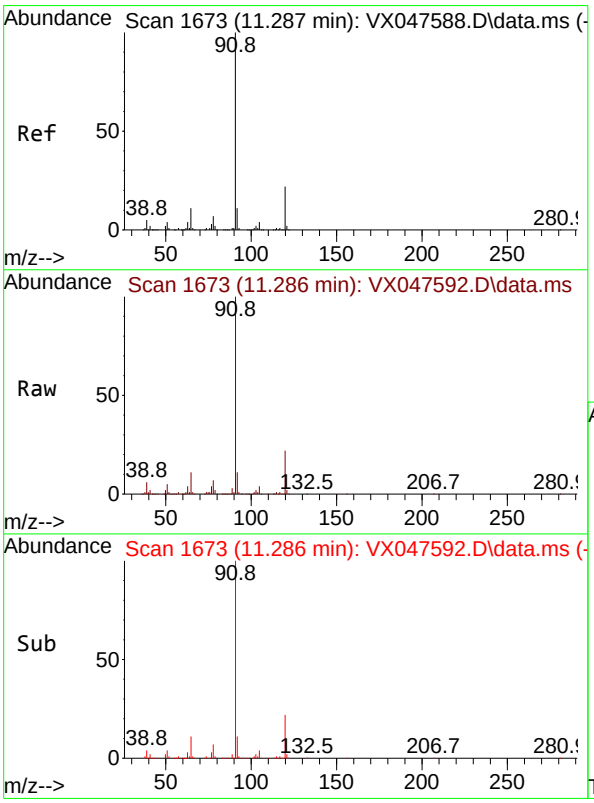
Ion	Ratio	Lower	Upper
156	100		
77	182.2	89.7	269.1
158	99.0	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

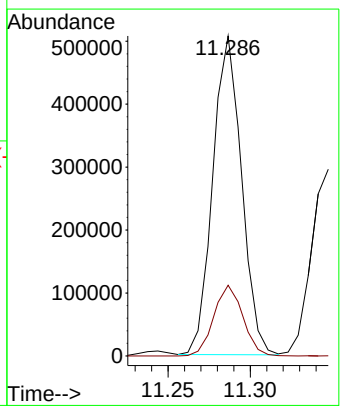
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

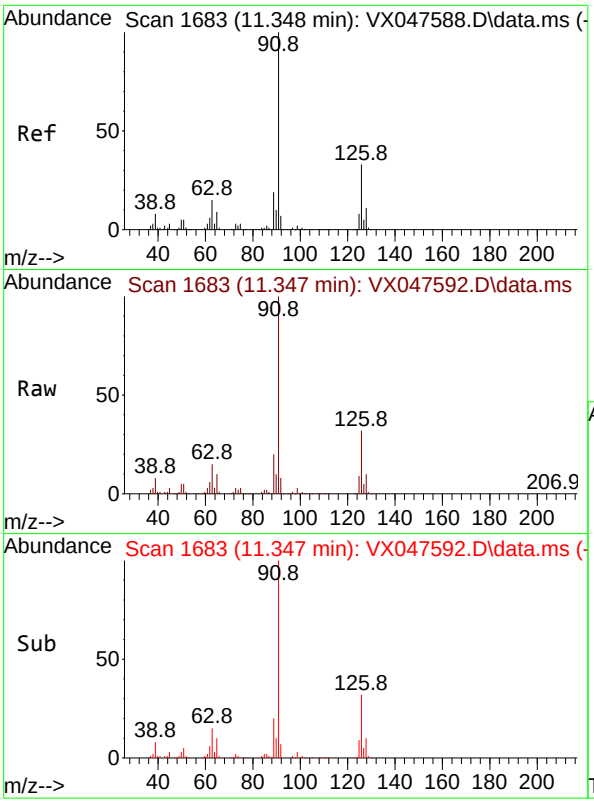


#78
n-propylbenzene
Concen: 49.295 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 616928

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

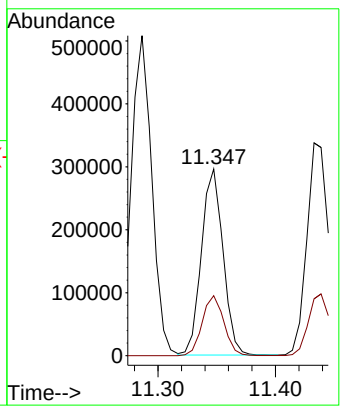




#79
2-Chlorotoluene
Concen: 49.117 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 37648

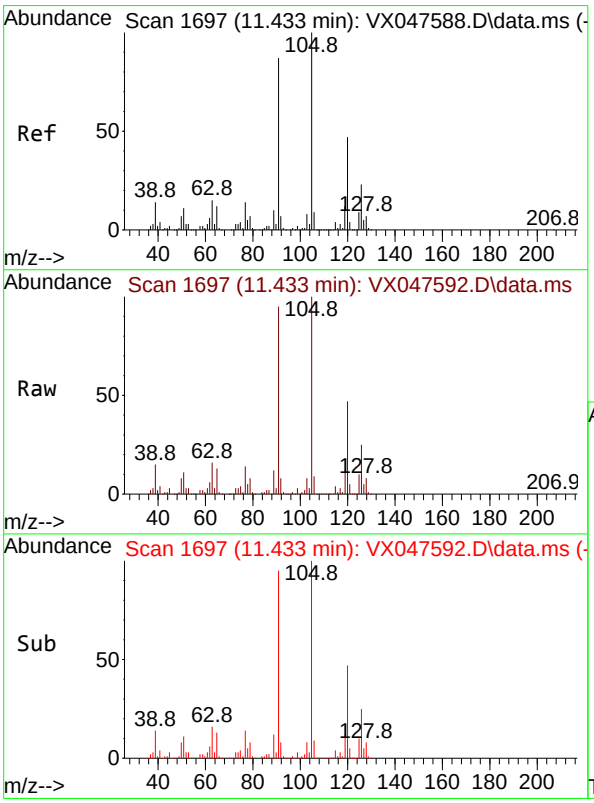
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

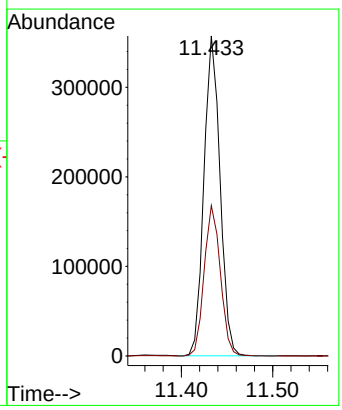
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

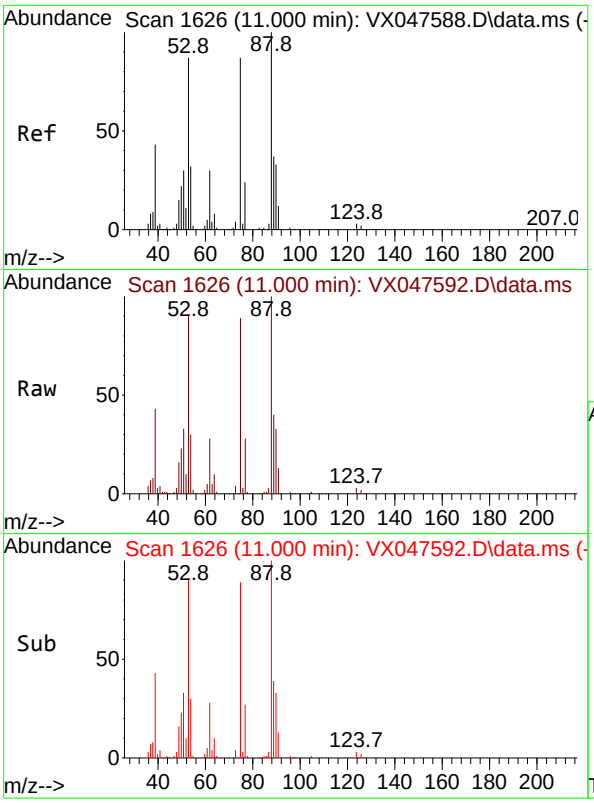


#80
1,3,5-Trimethylbenzene
Concen: 50.055 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 435375

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.6	70.8

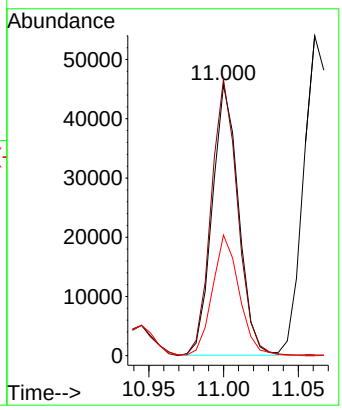




#81
trans-1,4-Dichloro-2-butene
Concen: 50.543 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 5588

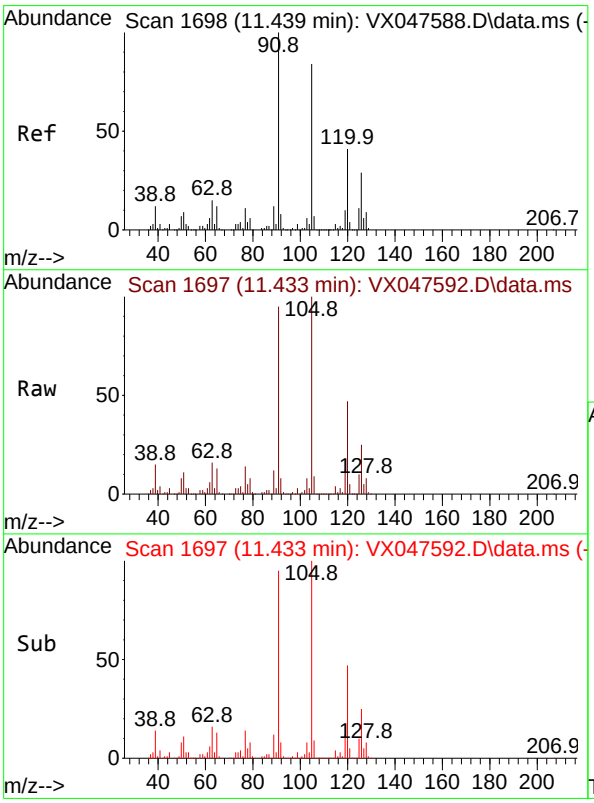
Ion	Ratio	Lower	Upper
75	100		
53	103.4	83.4	125.2
89	45.4	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

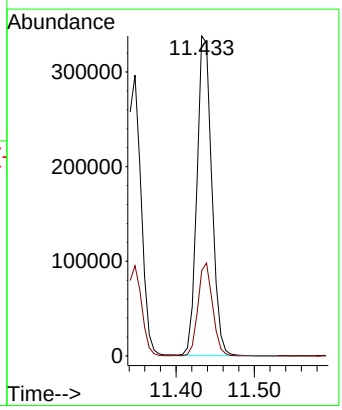
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

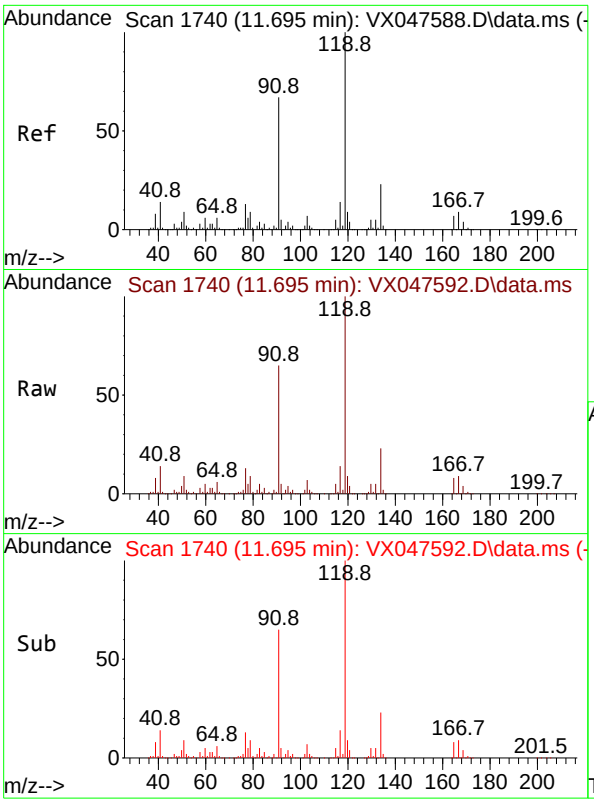


#82
4-Chlorotoluene
Concen: 49.164 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 445075

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

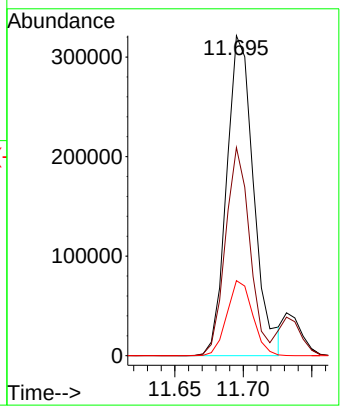




#83
tert-Butylbenzene
Concen: 49.679 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 44234

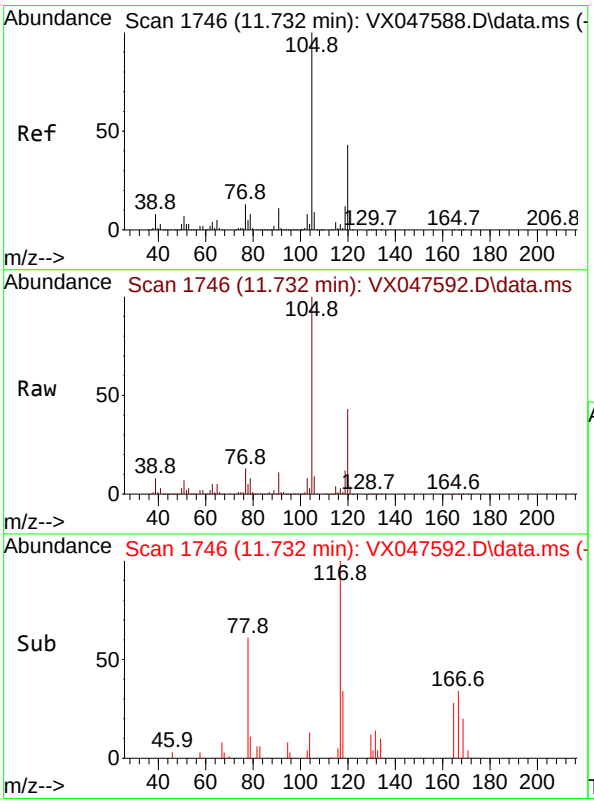
Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

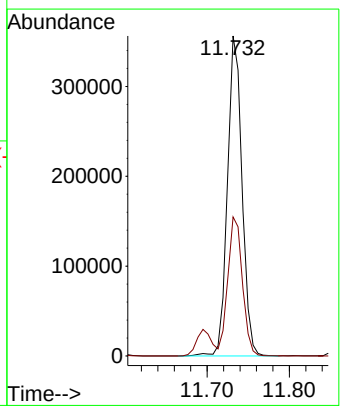
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

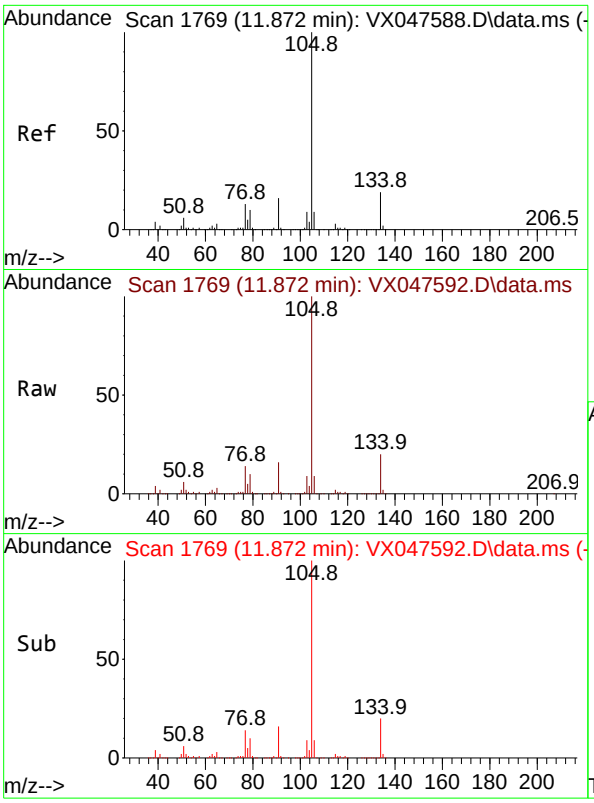


#84
1,2,4-Trimethylbenzene
Concen: 49.911 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 440134

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.1

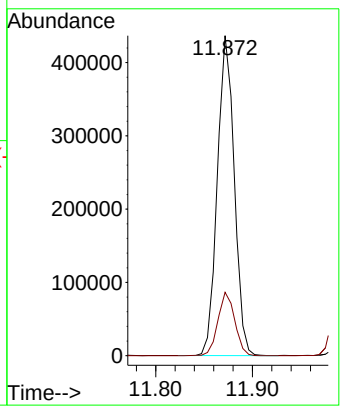




#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 52986

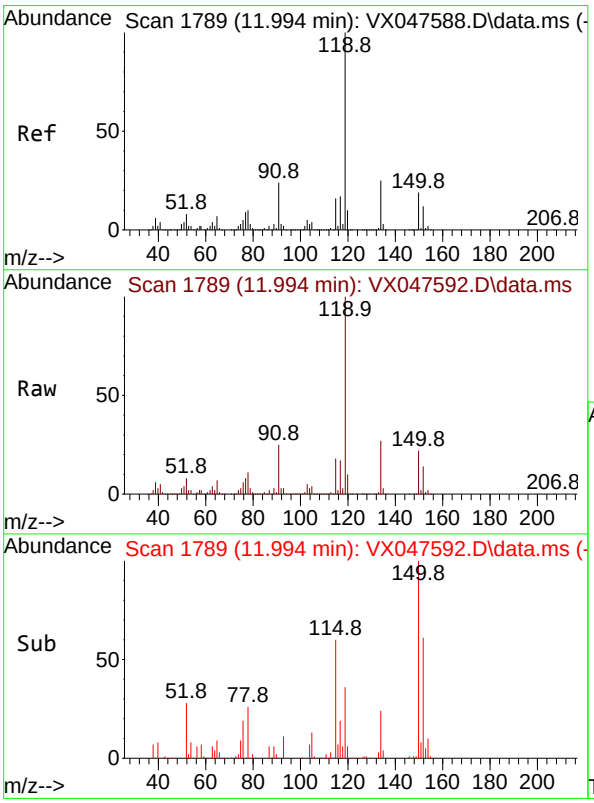
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

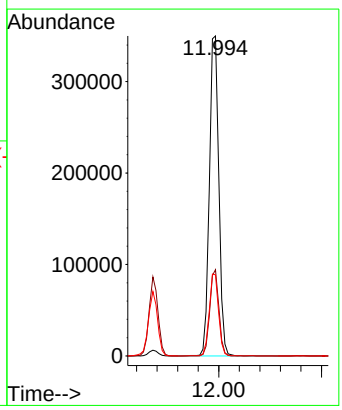
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

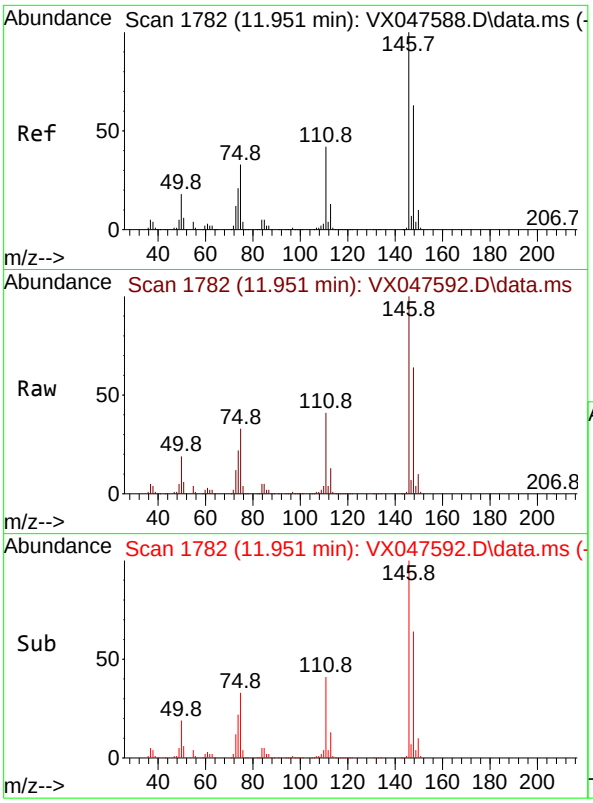


#86
p-Isopropyltoluene
Concen: 49.861 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 446441

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.4	12.6	37.6

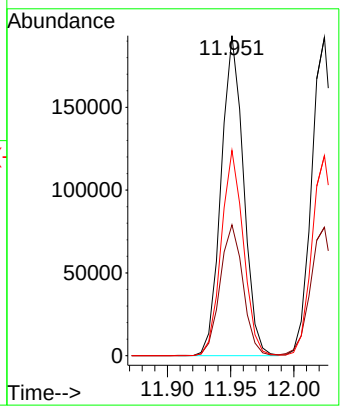




#87
1,3-Dichlorobenzene
Concen: 49.014 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 23738

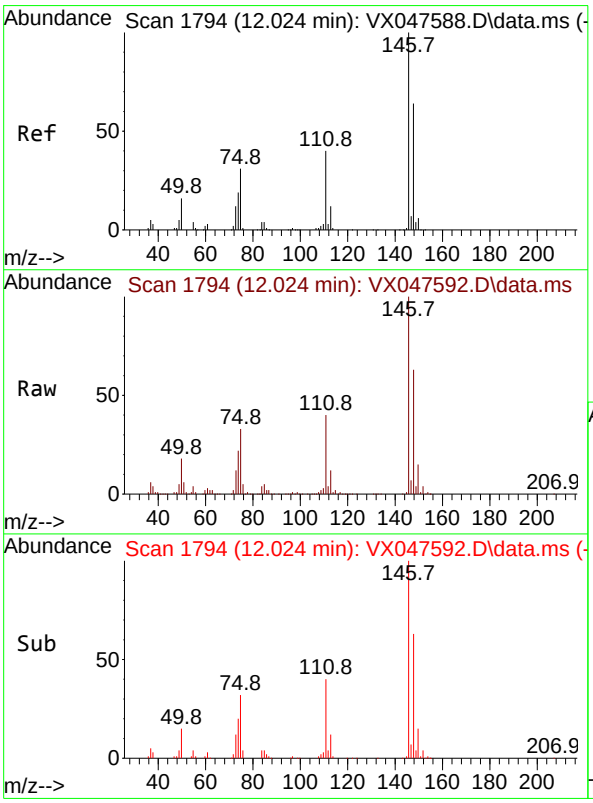
Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.5	64.5
148	63.5	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

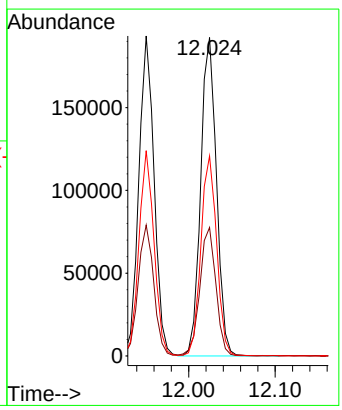
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

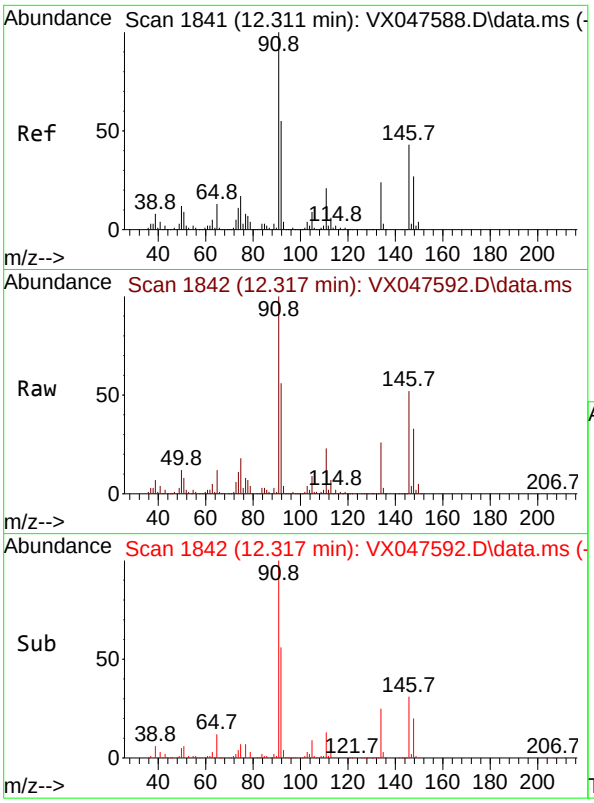


#88
1,4-Dichlorobenzene
Concen: 49.011 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 243618

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	62.7	31.7	95.1

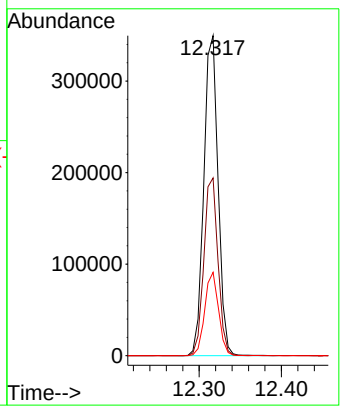




#89
n-Butylbenzene
Concen: 50.752 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 42047

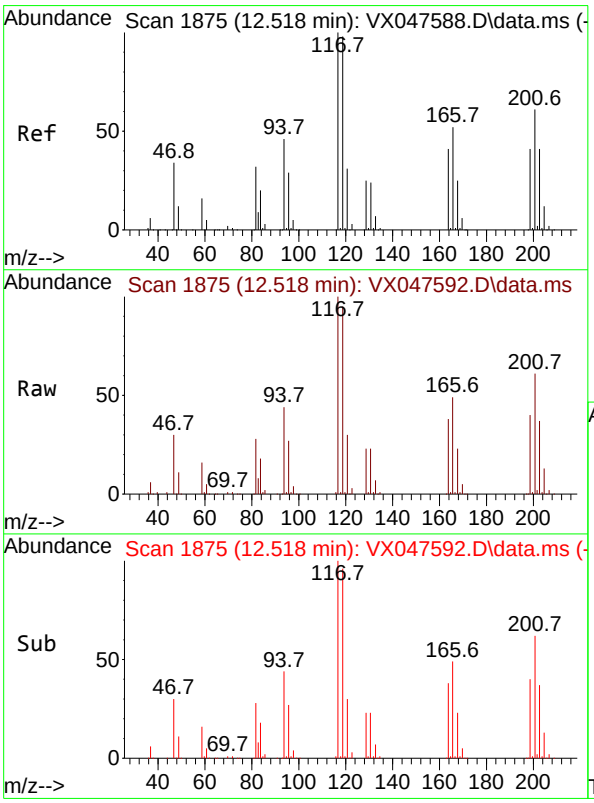
Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

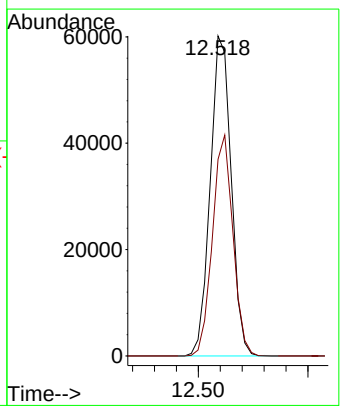
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

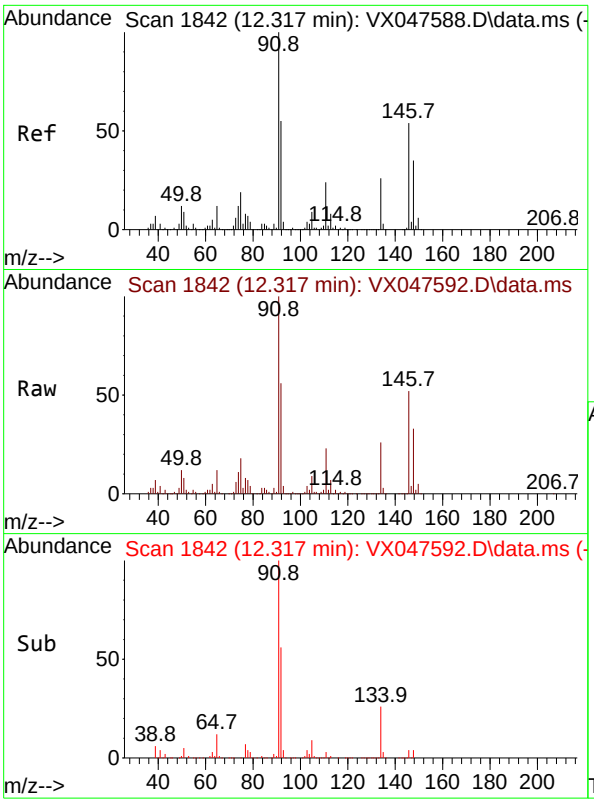


#90
Hexachloroethane
Concen: 50.732 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 79751

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5

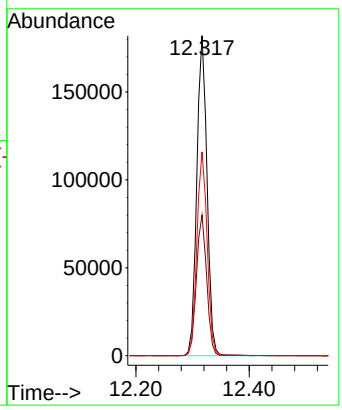




#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 22749

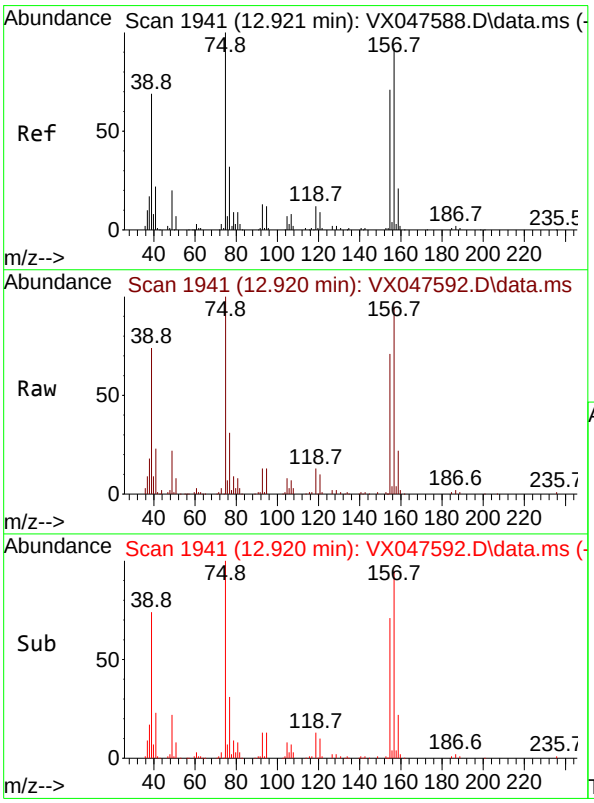
Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	64.1	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

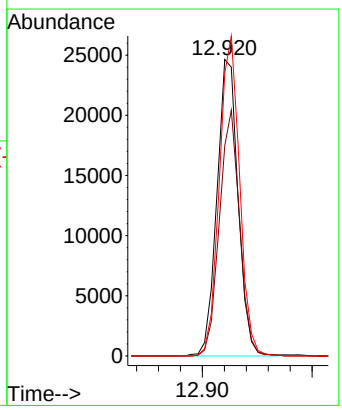
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

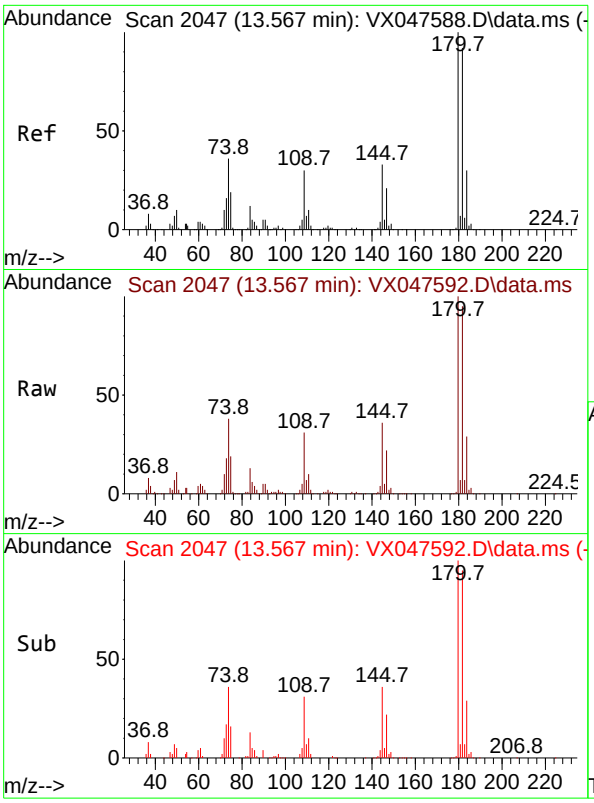


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.918 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 33020

Ion	Ratio	Lower	Upper
75	100		
155	79.1	37.7	113.1
157	103.2	49.8	149.4

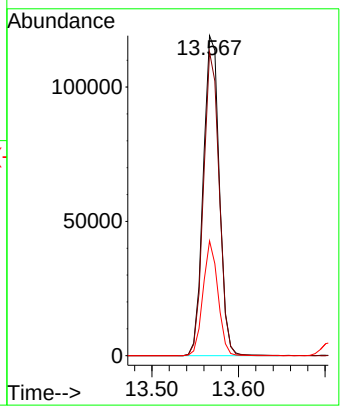




#93
1,2,4-Trichlorobenzene
Concen: 51.133 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 15333

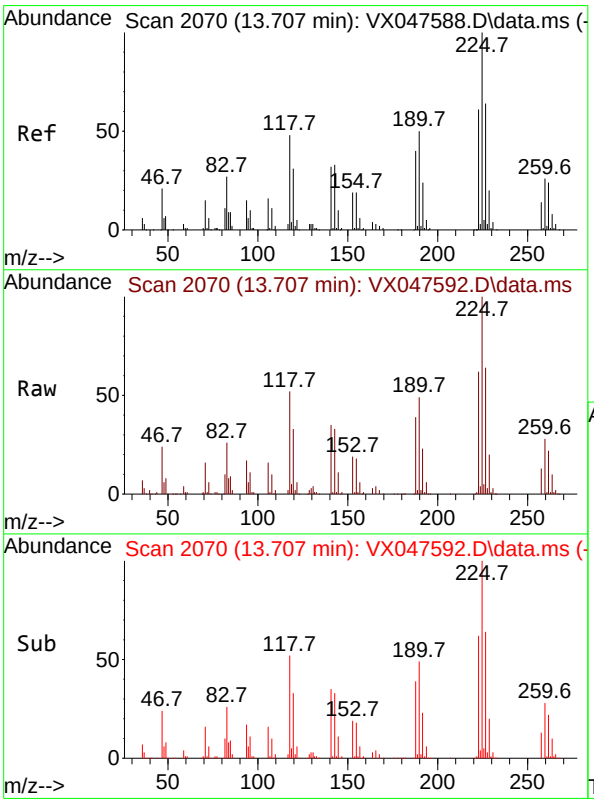
Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

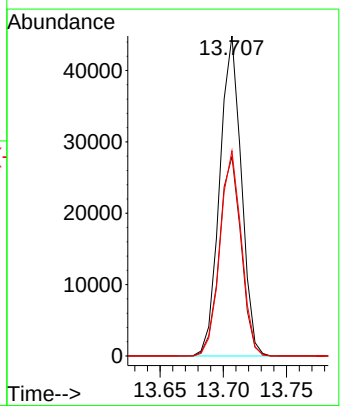
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

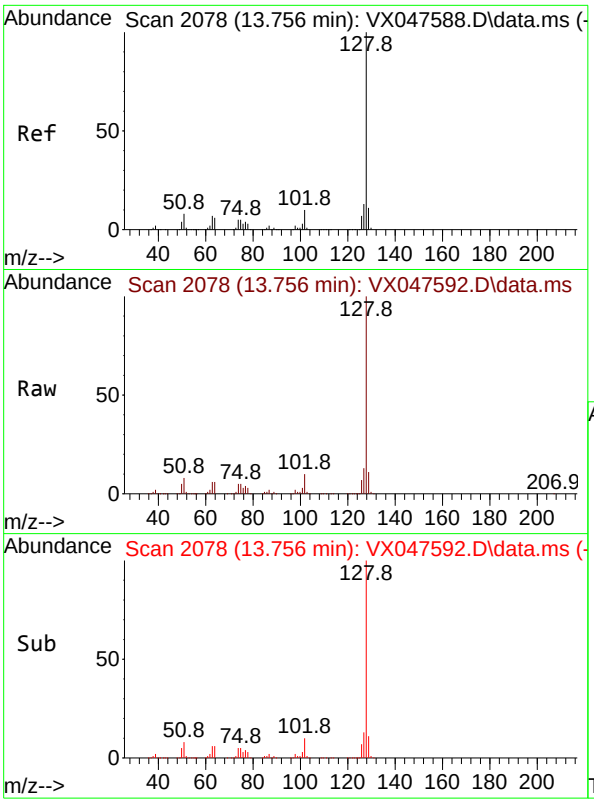


#94
Hexachlorobutadiene
Concen: 52.131 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:225 Resp: 53099

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.7	95.1
227	63.3	32.0	96.0

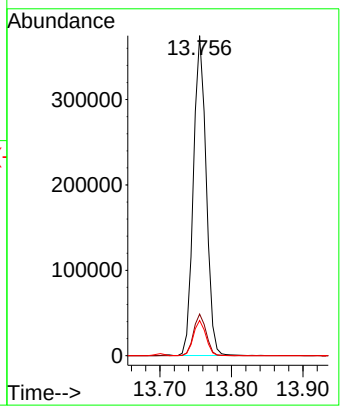




#95
Naphthalene
Concen: 50.836 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:128 Resp: 46420

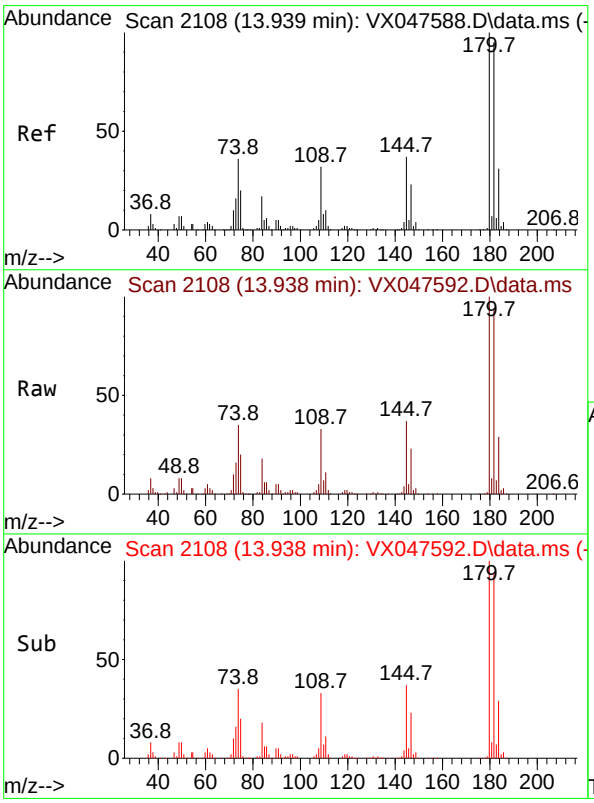
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

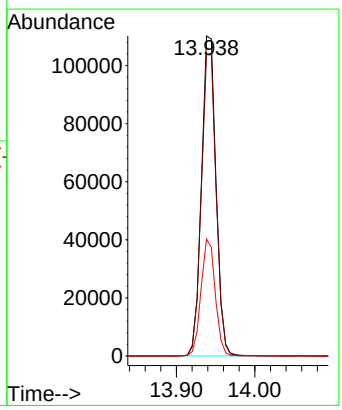
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.054 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 142413

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.6	17.9	53.7



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2	T	Dichlorodifluoromethane	0.518	0.462	10.8	99	0.00
3	P	Chloromethane	0.680	0.595	12.5	97	0.00
4	C	Vinyl Chloride	0.666	0.610	8.4#	99	0.00
5	T	Bromomethane	0.422	0.410	2.8	104	0.00
6	T	Chloroethane	0.445	0.415	6.7	101	0.00
7	T	Trichlorofluoromethane	0.989	0.931	5.9	101	0.00
8	T	Diethyl Ether	0.405	0.378	6.7	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.561	2.9	103	0.00
10	T	Methyl Iodide	0.902	0.834	7.5	98	0.00
11	T	Tert butyl alcohol	0.089	0.091	-2.2	110	0.00
12	CM	1,1-Dichloroethene	0.594	0.559	5.9#	100	0.00
13	T	Acrolein	0.082	0.083	-1.2	110	0.00
14	T	Allyl chloride	1.226	1.146	6.5	102	0.00
15	T	Acrylonitrile	0.328	0.333	-1.5	103	0.00
16	T	Acetone	0.346	0.339	2.0	115	0.00
17	T	Carbon Disulfide	1.626	1.463	10.0	100	0.00
18	T	Methyl Acetate	0.770	0.850	-10.4	104	0.00
19	T	Methyl tert-butyl Ether	2.169	2.105	3.0	101	0.00
20	T	Methylene Chloride	0.732	0.674	7.9	99	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.597	6.7	99	0.00
22	T	Diisopropyl ether	2.376	2.289	3.7	99	-0.01
23	T	Vinyl Acetate	1.901	1.867	1.8	101	0.00
24	P	1,1-Dichloroethane	1.263	1.213	4.0	101	0.00
25	T	2-Butanone	0.432	0.438	-1.4	107	0.00
26	T	2,2-Dichloropropane	1.050	1.039	1.0	105	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.765	2.3	102	0.00
28	T	Bromochloromethane	0.551	0.514	6.7	96	-0.01
29	T	Tetrahydrofuran	0.260	0.263	-1.2	103	0.00
30	C	Chloroform	1.276	1.244	2.5#	101	0.00
31	T	Cyclohexane	1.052	0.968	8.0	101	0.00
32	T	1,1,1-Trichloroethane	1.082	1.060	2.0	101	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.725	8.9	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35	S	Dibromofluoromethane	0.335	0.306	8.7	100	0.00
36	T	1,1-Dichloropropene	0.490	0.457	6.7	101	0.00
37	T	Ethyl Acetate	0.525	0.517	1.5	105	-0.01
38	T	Carbon Tetrachloride	0.532	0.500	6.0	100	-0.01
39	T	Methylcyclohexane	0.556	0.541	2.7	103	0.00
40	TM	Benzene	1.488	1.410	5.2	100	0.00
41	T	Methacrylonitrile	0.271	0.274	-1.1	103	0.00
42	TM	1,2-Dichloroethane	0.566	0.531	6.2	98	0.00
43	T	Isopropyl Acetate	0.860	0.846	1.6	102	0.00
44	TM	Trichloroethene	0.360	0.346	3.9	101	0.00
45	C	1,2-Dichloropropane	0.381	0.366	3.9#	100	0.00
46	T	Dibromomethane	0.277	0.266	4.0	100	0.00
47	T	Bromodichloromethane	0.572	0.558	2.4	99	0.00
48	T	Methyl methacrylate	0.429	0.427	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	0.004	0.005	-25.0	106	0.00
50	S	Toluene-d8	1.160	1.077	7.2	101	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.488	-2.3	103	0.00
52	CM	Toluene	0.917	0.883	3.7#	101	0.00
53	T	t-1,3-Dichloropropene	0.584	0.578	1.0	101	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.615	1.4	102	0.00
55	T	1,1,2-Trichloroethane	0.354	0.338	4.5	99	0.00
56	T	Ethyl methacrylate	0.555	0.572	-3.1	103	0.00
57	T	1,3-Dichloropropane	0.607	0.594	2.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.238	-4.8	94	0.00
59	T	2-Hexanone	0.343	0.347	-1.2	104	0.00
60	T	Dibromochloromethane	0.407	0.406	0.2	101	0.00
61	T	1,2-Dibromoethane	0.360	0.355	1.4	101	0.00
62	S	4-Bromofluorobenzene	0.440	0.410	6.8	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	T	Tetrachloroethene	0.326	0.315	3.4	103	0.00
65	PM	Chlorobenzene	1.136	1.103	2.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.383	2.3	99	0.00
67	C	Ethyl Benzene	1.960	1.953	0.4#	102	0.00
68	T	m/p-Xylenes	0.729	0.722	1.0	101	0.00
69	T	o-Xylene	0.706	0.708	-0.3	101	0.00
70	T	Styrene	1.236	1.225	0.9	101	0.00
71	P	Bromoform	0.293	0.300	-2.4	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73	T	Isopropylbenzene	3.801	3.762	1.0	101	0.00
74	T	N-amyl acetate	1.733	1.746	-0.8	102	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.147	0.3	102	0.00
76	T	1,2,3-Trichloropropane	1.012	1.076	-6.3	104	0.00
77	T	Bromobenzene	0.936	0.902	3.6	100	0.00
78	T	n-propylbenzene	4.494	4.430	1.4	101	0.00
79	T	2-Chlorotoluene	2.752	2.704	1.7	101	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.127	-0.1	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.401	-1.0	106	0.00
82	T	4-Chlorotoluene	3.251	3.196	1.7	101	0.00
83	T	tert-Butylbenzene	3.197	3.177	0.6	103	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.161	0.2	103	0.00
85	T	sec-Butylbenzene	3.797	3.805	-0.2	103	0.00
86	T	p-Isopropyltoluene	3.215	3.206	0.3	102	0.00
87	T	1,3-Dichlorobenzene	1.739	1.705	2.0	102	0.00
88	T	1,4-Dichlorobenzene	1.785	1.749	2.0	104	0.00
89	T	n-Butylbenzene	2.975	3.020	-1.5	105	0.00
90	T	Hexachloroethane	0.564	0.573	-1.6	105	0.00
91	T	1,2-Dichlorobenzene	1.657	1.634	1.4	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.237	-1.7	102	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.101	-2.2	104	0.00
94	T	Hexachlorobutadiene	0.366	0.381	-4.1	108	0.00
95	T	Naphthalene	3.279	3.334	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	1.023	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2	T	Dichlorodifluoromethane	50.000	44.592	10.8	99	0.00
3	P	Chloromethane	50.000	43.710	12.6	97	0.00
4	C	Vinyl Chloride	50.000	45.783	8.4#	99	0.00
5	T	Bromomethane	50.000	48.489	3.0	104	0.00
6	T	Chloroethane	50.000	46.575	6.8	101	0.00
7	T	Trichlorofluoromethane	50.000	47.074	5.9	101	0.00
8	T	Diethyl Ether	50.000	46.693	6.6	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.524	3.0	103	0.00
10	T	Methyl Iodide	50.000	46.210	7.6	98	0.00
11	T	Tert butyl alcohol	250.000	256.271	-2.5	110	0.00
12	CM	1,1-Dichloroethene	50.000	47.076	5.8#	100	0.00
13	T	Acrolein	250.000	254.867	-1.9	110	0.00
14	T	Allyl chloride	50.000	46.742	6.5	102	0.00
15	T	Acrylonitrile	250.000	253.567	-1.4	103	0.00
16	T	Acetone	250.000	245.006	2.0	115	0.00
17	T	Carbon Disulfide	50.000	44.966	10.1	100	0.00
18	T	Methyl Acetate	50.000	55.175	-10.3	104	0.00
19	T	Methyl tert-butyl Ether	50.000	48.538	2.9	101	0.00
20	T	Methylene Chloride	50.000	46.000	8.0	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.709	6.6	99	0.00
22	T	Diisopropyl ether	50.000	48.174	3.7	99	-0.01
23	T	Vinyl Acetate	250.000	245.539	1.8	101	0.00
24	P	1,1-Dichloroethane	50.000	48.041	3.9	101	0.00
25	T	2-Butanone	250.000	253.598	-1.4	107	0.00
26	T	2,2-Dichloropropane	50.000	49.494	1.0	105	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.826	2.3	102	0.00
28	T	Bromochloromethane	50.000	46.586	6.8	96	-0.01
29	T	Tetrahydrofuran	250.000	253.375	-1.4	103	0.00
30	C	Chloroform	50.000	48.739	2.5#	101	0.00
31	T	Cyclohexane	50.000	45.999	8.0	101	0.00
32	T	1,1,1-Trichloroethane	50.000	48.978	2.0	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.550	8.9	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35	S	Dibromofluoromethane	50.000	45.559	8.9	100	0.00
36	T	1,1-Dichloropropene	50.000	46.663	6.7	101	0.00
37	T	Ethyl Acetate	50.000	49.241	1.5	105	-0.01
38	T	Carbon Tetrachloride	50.000	46.935	6.1	100	-0.01
39	T	Methylcyclohexane	50.000	48.597	2.8	103	0.00
40	TM	Benzene	50.000	47.357	5.3	100	0.00
41	T	Methacrylonitrile	50.000	50.490	-1.0	103	0.00
42	TM	1,2-Dichloroethane	50.000	46.867	6.3	98	0.00
43	T	Isopropyl Acetate	50.000	49.136	1.7	102	0.00
44	TM	Trichloroethene	50.000	48.037	3.9	101	0.00
45	C	1,2-Dichloropropane	50.000	48.053	3.9#	100	0.00
46	T	Dibromomethane	50.000	47.976	4.0	100	0.00
47	T	Bromodichloromethane	50.000	48.769	2.5	99	0.00
48	T	Methyl methacrylate	50.000	49.757	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1089.520	-9.0	106	0.00
50	S	Toluene-d8	50.000	46.411	7.2	101	0.00
51	T	4-Methyl-2-Pentanone	250.000	255.752	-2.3	103	0.00
52	CM	Toluene	50.000	48.130	3.7#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	49.527	0.9	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.257	1.5	102	0.00
55	T	1,1,2-Trichloroethane	50.000	47.772	4.5	99	0.00
56	T	Ethyl methacrylate	50.000	51.490	-3.0	103	0.00
57	T	1,3-Dichloropropane	50.000	48.894	2.2	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.562	9.8	94	0.00
59	T	2-Hexanone	250.000	253.126	-1.3	104	0.00
60	T	Dibromochloromethane	50.000	49.824	0.4	101	0.00
61	T	1,2-Dibromoethane	50.000	49.297	1.4	101	0.00
62	S	4-Bromofluorobenzene	50.000	46.520	7.0	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64	T	Tetrachloroethene	50.000	48.296	3.4	103	0.00
65	PM	Chlorobenzene	50.000	48.549	2.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.794	2.4	99	0.00
67	C	Ethyl Benzene	50.000	49.813	0.4#	102	0.00
68	T	m/p-Xylenes	100.000	98.956	1.0	101	0.00
69	T	o-Xylene	50.000	50.159	-0.3	101	0.00
70	T	Styrene	50.000	49.536	0.9	101	0.00
71	P	Bromoform	50.000	51.207	-2.4	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73	T	Isopropylbenzene	50.000	49.479	1.0	101	0.00
74	T	N-amyl acetate	50.000	50.375	-0.8	102	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.851	0.3	102	0.00
76	T	1,2,3-Trichloropropane	50.000	53.124	-6.2	104	0.00
77	T	Bromobenzene	50.000	48.173	3.7	100	0.00
78	T	n-propylbenzene	50.000	49.295	1.4	101	0.00
79	T	2-Chlorotoluene	50.000	49.117	1.8	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.543	-1.1	106	0.00
82	T	4-Chlorotoluene	50.000	49.164	1.7	101	0.00
83	T	tert-Butylbenzene	50.000	49.679	0.6	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.911	0.2	103	0.00
85	T	sec-Butylbenzene	50.000	50.100	-0.2	103	0.00
86	T	p-Isopropyltoluene	50.000	49.861	0.3	102	0.00
87	T	1,3-Dichlorobenzene	50.000	49.014	2.0	102	0.00
88	T	1,4-Dichlorobenzene	50.000	49.011	2.0	104	0.00
89	T	n-Butylbenzene	50.000	50.752	-1.5	105	0.00
90	T	Hexachloroethane	50.000	50.732	-1.5	105	0.00
91	T	1,2-Dichlorobenzene	50.000	49.304	1.4	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.918	-1.8	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.133	-2.3	104	0.00
94	T	Hexachlorobutadiene	50.000	52.131	-4.3	108	0.00
95	T	Naphthalene	50.000	50.836	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	51.054	-2.1	102	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: Alliance | Contract: TETR06

Lab Code: ACE | SDG No.: Q3141

Instrument ID: MSVOA_X | Calibration Date/Time: 09/23/2025 09:02

Lab File ID: VX047719.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.656		26.64	20
Chloromethane	0.680	0.808	0.1	18.82	20
Vinyl Chloride	0.666	0.805		20.87	20
Bromomethane	0.422	0.530		25.59	20
Chloroethane	0.445	0.514		15.51	20
Trichlorofluoromethane	0.989	1.104		11.63	20
1,1,2-Trichlorotrifluoroethane	0.578	0.650		12.46	20
1,1-Dichloroethene	0.594	0.677		13.97	20
Acetone	0.346	0.388		12.14	20
Carbon Disulfide	1.626	1.899		16.79	20
Methyl tert-butyl Ether	2.169	2.452		13.05	20
Methyl Acetate	0.770	0.873		13.38	20
Methylene Chloride	0.732	0.832		13.66	20
trans-1,2-Dichloroethene	0.640	0.741		15.78	20
1,1-Dichloroethane	1.263	1.428	0.1	13.06	20
Cyclohexane	1.052	1.142		8.56	20
2-Butanone	0.432	0.477		10.42	20
Carbon Tetrachloride	0.532	0.561		5.45	20
cis-1,2-Dichloroethene	0.783	0.903		15.33	20
Bromochloromethane	0.551	0.612		11.07	20
Chloroform	1.276	1.444		13.17	20
1,1,1-Trichloroethane	1.082	1.211		11.92	20
Methylcyclohexane	0.556	0.599		7.73	20
Benzene	1.488	1.647		10.69	20
1,2-Dichloroethane	0.566	0.606		7.07	20
Trichloroethene	0.360	0.403		11.94	20
1,2-Dichloropropane	0.381	0.426		11.81	20
Bromodichloromethane	0.572	0.634		10.84	20
4-Methyl-2-Pentanone	0.477	0.525		10.06	20
Toluene	0.917	1.016		10.8	20
t-1,3-Dichloropropene	0.584	0.658		12.67	20
cis-1,3-Dichloropropene	0.624	0.704		12.82	20
1,1,2-Trichloroethane	0.354	0.392		10.73	20
2-Hexanone	0.343	0.374		9.04	20
Dibromochloromethane	0.407	0.464		14.01	20
1,2-Dibromoethane	0.360	0.410		13.89	20
Tetrachloroethene	0.326	0.353		8.28	20
Chlorobenzene	1.136	1.246	0.3	9.68	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: Alliance
Contract: TETR06
Lab Code: ACE
SDG No.: Q3141
Instrument ID: MSVOA_X
Calibration Date/Time: 09/23/2025 09:02
Lab File ID: VX047719.D
Init. Calib. Date(s): 09/16/2025 09/16/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 09:23 12:01
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.150		9.69	20
m/p-Xylenes	0.729	0.807		10.7	20
o-Xylene	0.706	0.790		11.9	20
Styrene	1.236	1.382		11.81	20
Bromoform	0.293	0.332	0.1	13.31	20
Isopropylbenzene	3.801	4.072		7.13	20
1,1,2,2-Tetrachloroethane	1.150	1.253	0.3	8.96	20
1,3-Dichlorobenzene	1.739	1.887		8.51	20
1,4-Dichlorobenzene	1.785	1.893		6.05	20
1,2-Dichlorobenzene	1.657	1.825		10.14	20
1,2-Dibromo-3-Chloropropane	0.233	0.241		3.43	20
1,2,4-Trichlorobenzene	1.077	1.150		6.78	20
1,2,3-Trichlorobenzene	1.002	1.103		10.08	20
1,2-Dichloroethane-d4	0.796	0.816		2.51	20
Dibromofluoromethane	0.335	0.352		5.07	20
Toluene-d8	1.160	1.200		3.45	20
4-Bromofluorobenzene	0.440	0.459		4.32	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\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	145672	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	265022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	235703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	115061	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	118904	51.280	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.560%			
35) Dibromofluoromethane	5.367	113	93243	52.461	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.920%			
50) Toluene-d8	8.628	98	318085	51.720	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.440%			
62) 4-Bromofluorobenzene	11.061	95	121543	52.073	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	95620	63.389	ug/l	97
3) Chloromethane	1.300	50	117705	59.371	ug/l	100
4) Vinyl Chloride	1.380	62	117260	60.422	ug/l	100
5) Bromomethane	1.617	94	77247	62.771	ug/l	97
6) Chloroethane	1.697	64	74922	57.762	ug/l	99
7) Trichlorofluoromethane	1.892	101	160825	55.813	ug/l	99
8) Diethyl Ether	2.136	74	67493	57.259	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	94692	56.200	ug/l	99
10) Methyl Iodide	2.453	142	152554	58.055	ug/l	100
11) Tert butyl alcohol	2.940	59	63172	244.621	ug/l	99
12) 1,1-Dichloroethene	2.325	96	98672	57.012	ug/l	97
13) Acrolein	2.233	56	67336	282.952	ug/l	97
14) Allyl chloride	2.666	41	195439	54.723	ug/l	98
15) Acrylonitrile	3.056	53	275014	287.505	ug/l	99
16) Acetone	2.373	43	282461	280.166	ug/l	98
17) Carbon Disulfide	2.514	76	276670	58.393	ug/l	99
18) Methyl Acetate	2.697	43	127158	56.673	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	357198	56.537	ug/l	99
20) Methylene Chloride	2.788	84	121247	56.815	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	107940	57.928	ug/l	96
22) Diisopropyl ether	3.751	45	393344	56.829	ug/l	100
23) Vinyl Acetate	3.709	43	1605465	289.816	ug/l	99
24) 1,1-Dichloroethane	3.605	63	207990	56.537	ug/l	99
25) 2-Butanone	4.532	43	347300	276.163	ug/l	98
26) 2,2-Dichloropropane	4.465	77	167410	54.744	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	131508	57.629	ug/l	98
28) Bromochloromethane	4.879	49	89169	55.520	ug/l	99
29) Tetrahydrofuran	4.983	42	207795	274.666	ug/l	99
30) Chloroform	5.074	83	210287	56.566	ug/l	98
31) Cyclohexane	5.458	56	166413	54.312	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	176453	55.958	ug/l	99
36) 1,1-Dichloropropene	5.678	75	136661	52.619	ug/l	98
37) Ethyl Acetate	4.696	43	148064	53.244	ug/l	99
38) Carbon Tetrachloride	5.666	117	148597	52.659	ug/l	96
39) Methylcyclohexane	7.360	83	158624	53.805	ug/l	99
40) Benzene	6.019	78	436446	55.328	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	78988	55.020	ug/l		99
42) 1,2-Dichloroethane	6.068	62	160490	53.472	ug/l		99
43) Isopropyl Acetate	6.318	43	246709	54.094	ug/l		100
44) Trichloroethene	7.104	130	106747	55.974	ug/l		93
45) 1,2-Dichloropropane	7.415	63	112815	55.852	ug/l		100
46) Dibromomethane	7.562	93	81231	55.264	ug/l		97
47) Bromodichloromethane	7.805	83	168096	55.419	ug/l		98
48) Methyl methacrylate	7.671	41	121390	53.434	ug/l		97
49) 1,4-Dioxane	7.641	88	28790	1254.001	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	695707	275.127	ug/l		100
52) Toluene	8.702	92	269293	55.411	ug/l		98
53) t-1,3-Dichloropropene	8.958	75	174332	56.347	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	186621	56.434	ug/l		99
55) 1,1,2-Trichloroethane	9.134	97	104009	55.502	ug/l		99
56) Ethyl methacrylate	9.098	69	167018	56.751	ug/l		97
57) 1,3-Dichloropropane	9.293	76	182551	56.707	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	389211	274.956	ug/l		100
59) 2-Hexanone	9.415	43	495514	272.845	ug/l		99
60) Dibromochloromethane	9.506	129	123071	56.997	ug/l		98
61) 1,2-Dibromoethane	9.592	107	108549	56.870	ug/l		99
64) Tetrachloroethene	9.256	164	83230	54.167	ug/l		98
65) Chlorobenzene	10.061	112	293695	54.848	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.146	131	103750	56.149	ug/l		100
67) Ethyl Benzene	10.177	91	506854	54.859	ug/l		100
68) m/p-Xylenes	10.287	106	380464	110.636	ug/l		99
69) o-Xylene	10.622	106	186157	55.967	ug/l		99
70) Styrene	10.640	104	325724	55.888	ug/l		99
71) Bromoform	10.780	173	78229	56.699	ug/l	#	99
73) Isopropylbenzene	10.945	105	468503	53.558	ug/l		99
74) N-amyl acetate	10.823	43	216957	54.388	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	144143	54.463	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	113886m	48.886	ug/l		
77) Bromobenzene	11.183	156	118485	54.994	ug/l		96
78) n-propylbenzene	11.286	91	557613	53.923	ug/l		99
79) 2-Chlorotoluene	11.347	91	337904	53.352	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	387138	53.867	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	48023	52.569	ug/l		97
82) 4-Chlorotoluene	11.433	91	396717	53.035	ug/l		99
83) tert-Butylbenzene	11.695	119	390632	53.095	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	394502	54.142	ug/l		100
85) sec-Butylbenzene	11.872	105	468381	53.598	ug/l		100
86) p-Isopropyltoluene	11.988	119	395524	53.461	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	217150	54.263	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	217807	53.031	ug/l		99
89) n-Butylbenzene	12.311	91	364819	53.292	ug/l		99
90) Hexachloroethane	12.518	117	70085	53.956	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	210035	55.091	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27679	51.656	ug/l		92
93) 1,2,4-Trichlorobenzene	13.567	180	132366	53.421	ug/l		98
94) Hexachlorobutadiene	13.707	225	44561	52.946	ug/l		99
95) Naphthalene	13.756	128	405500	53.744	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	126908	55.060	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

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

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

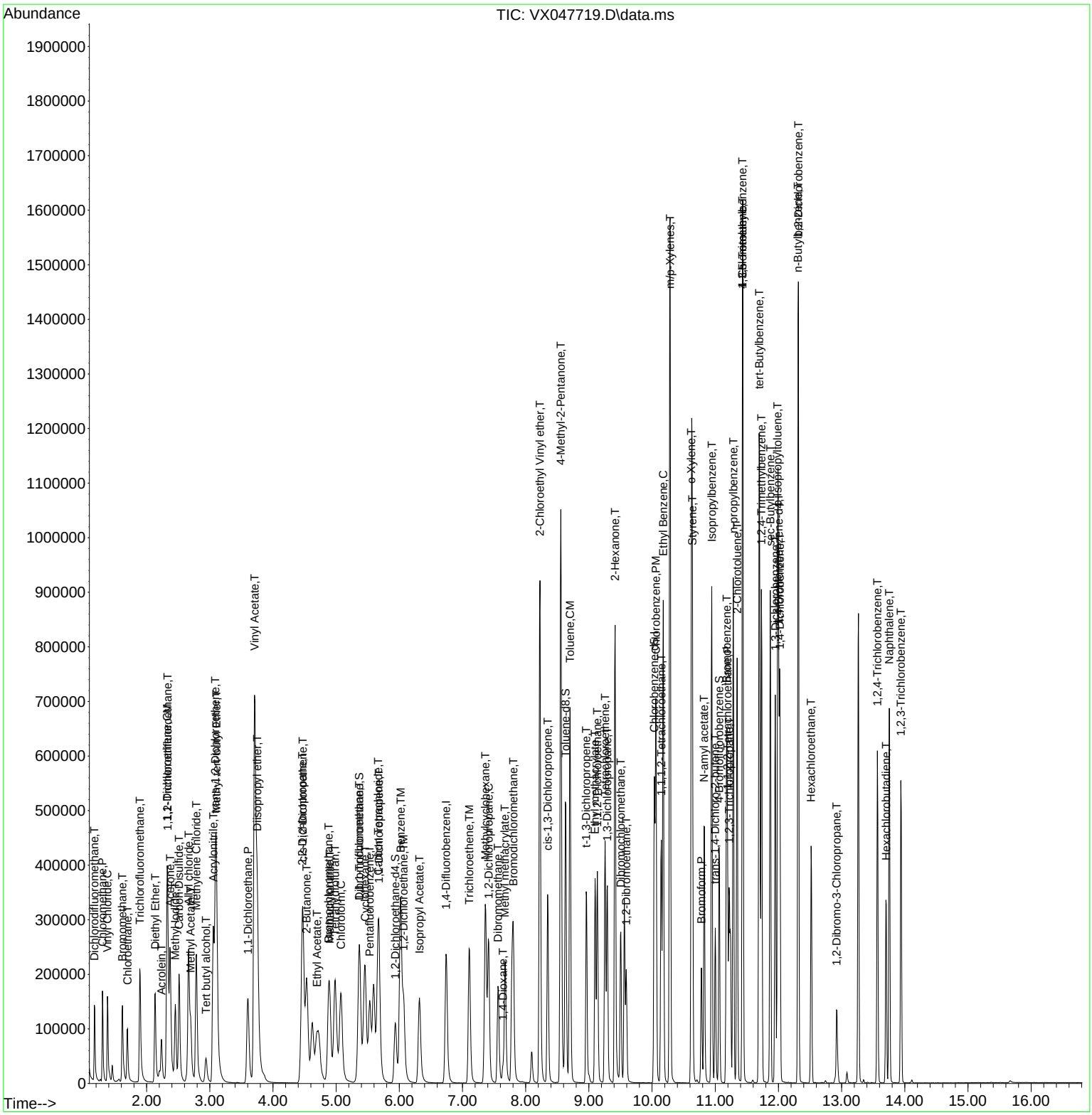
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

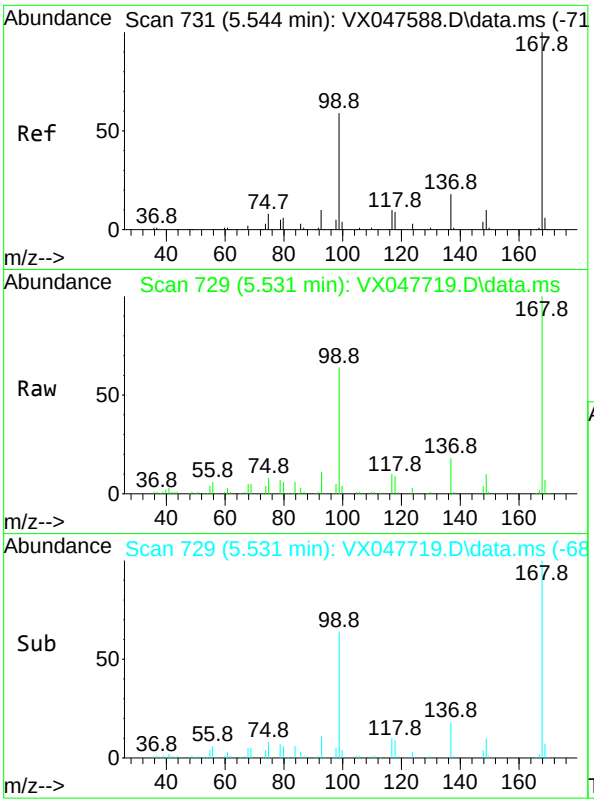
Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

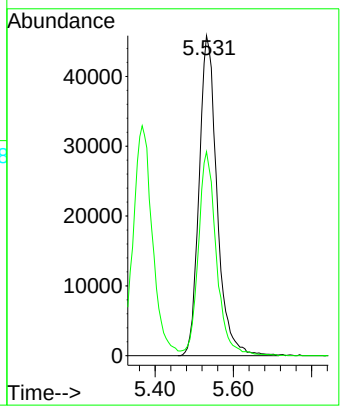




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:168 Resp: 14567

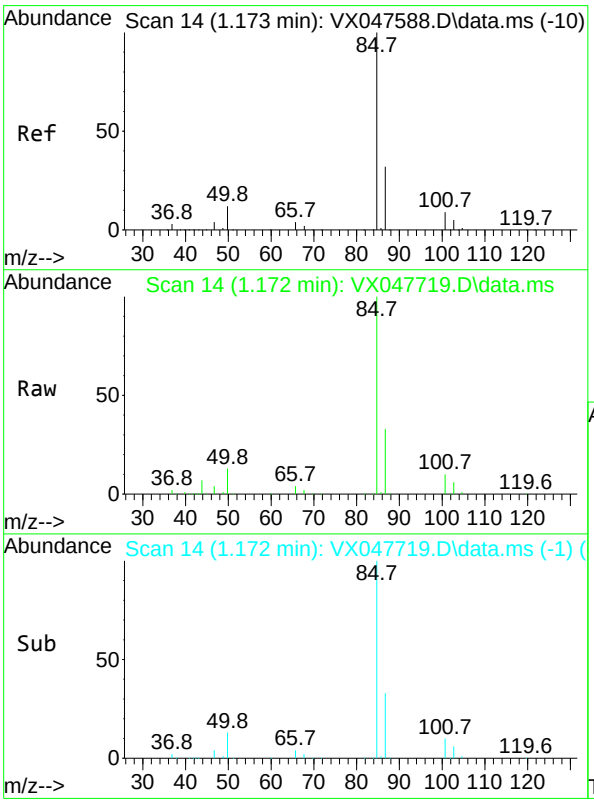
Ion	Ratio	Lower	Upper
168	100		
99	63.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

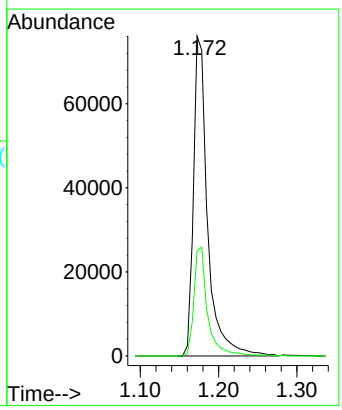
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

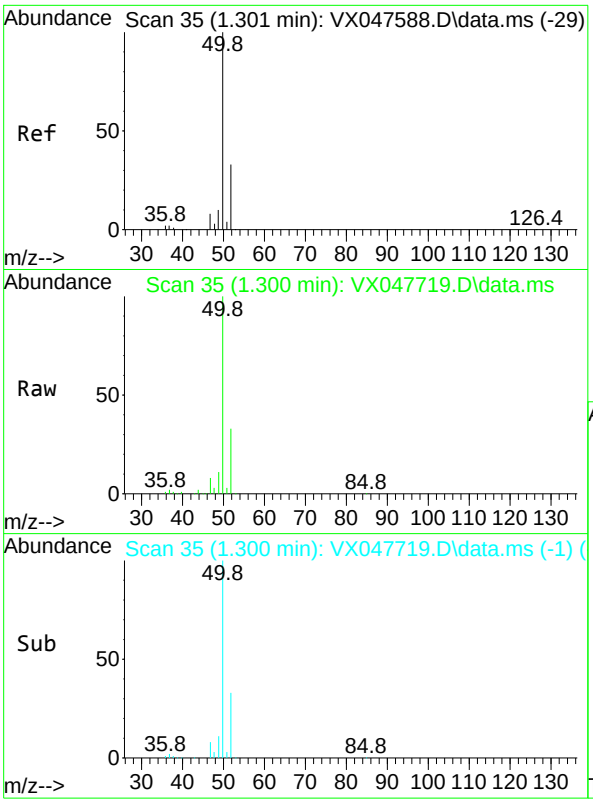


#2
Dichlorodifluoromethane
Concen: 63.389 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 85 Resp: 95620

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

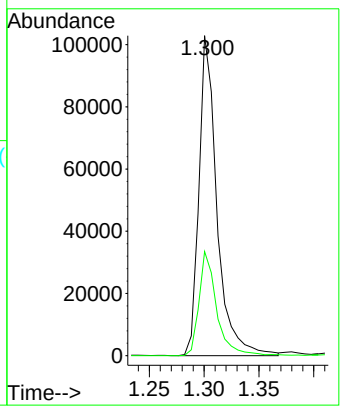




#3
Chloromethane
Concen: 59.371 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 50 Resp: 11770

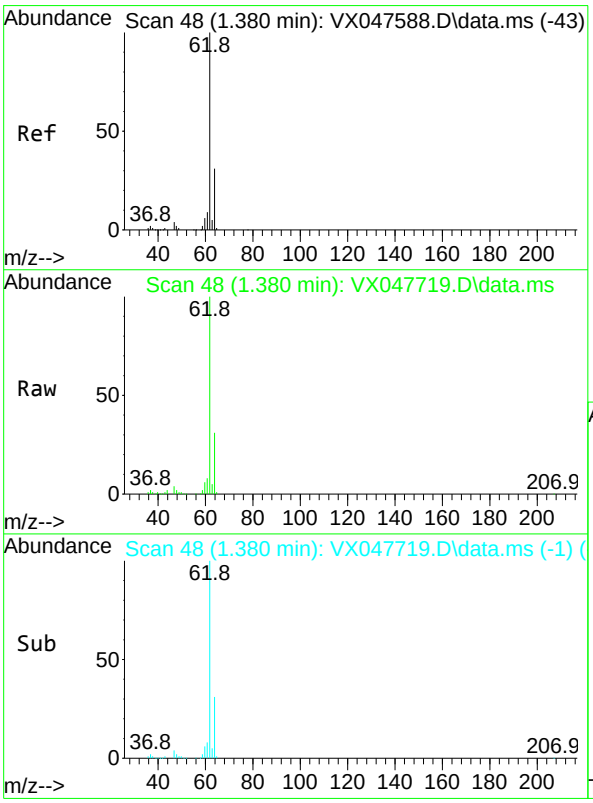
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

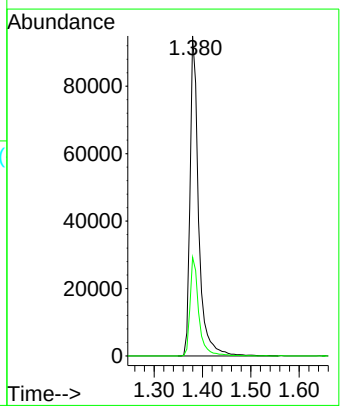
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

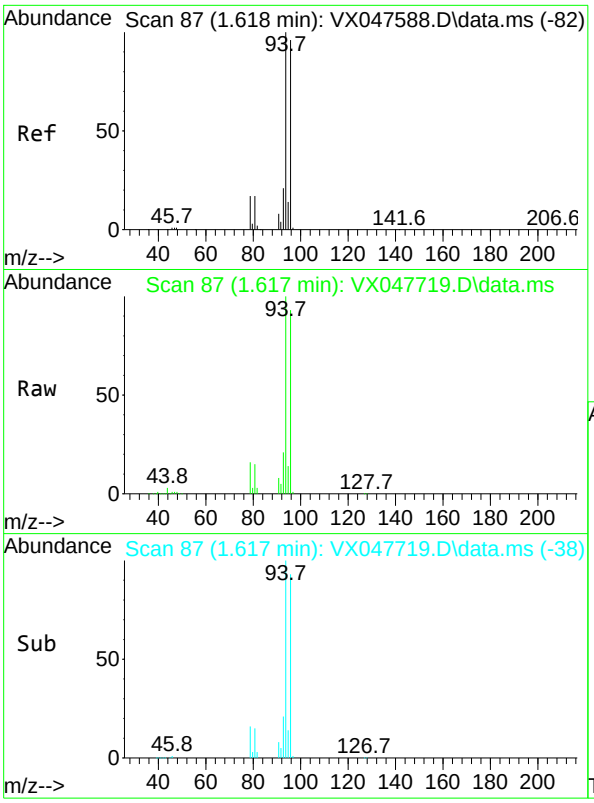


#4
Vinyl Chloride
Concen: 60.422 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 117260

Ion	Ratio	Lower	Upper
62	100		
64	30.8	24.9	37.3

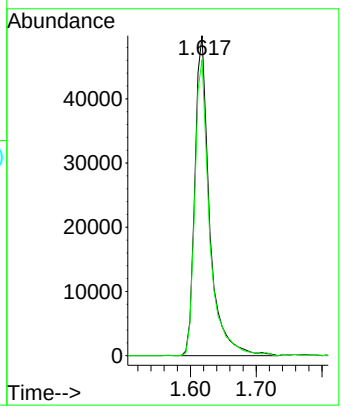




#5
Bromomethane
Concen: 62.771 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 94 Resp: 7724

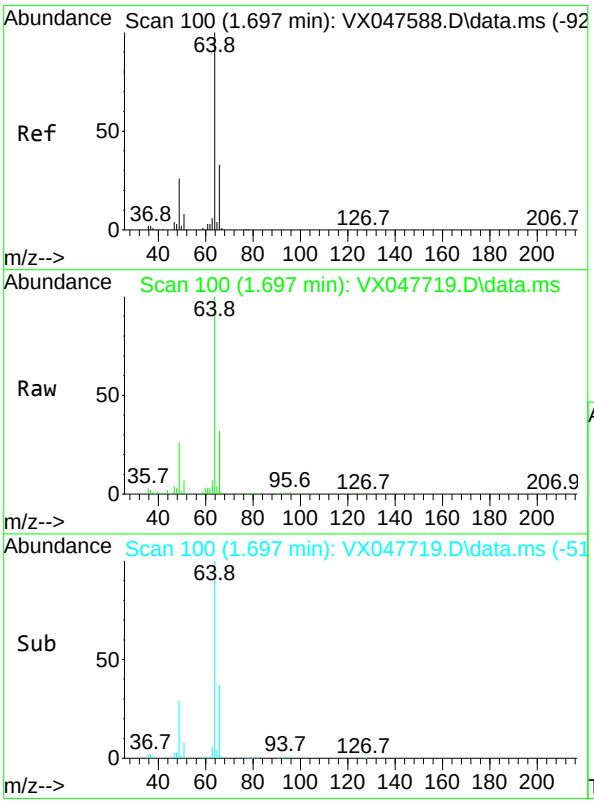
Ion	Ratio	Lower	Upper
94	100		
96	92.5	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

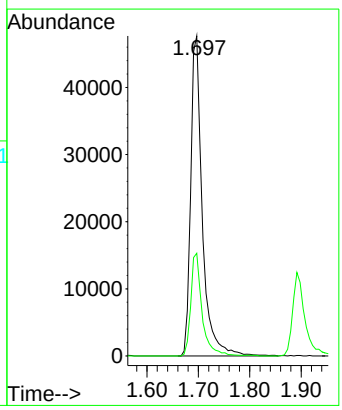
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

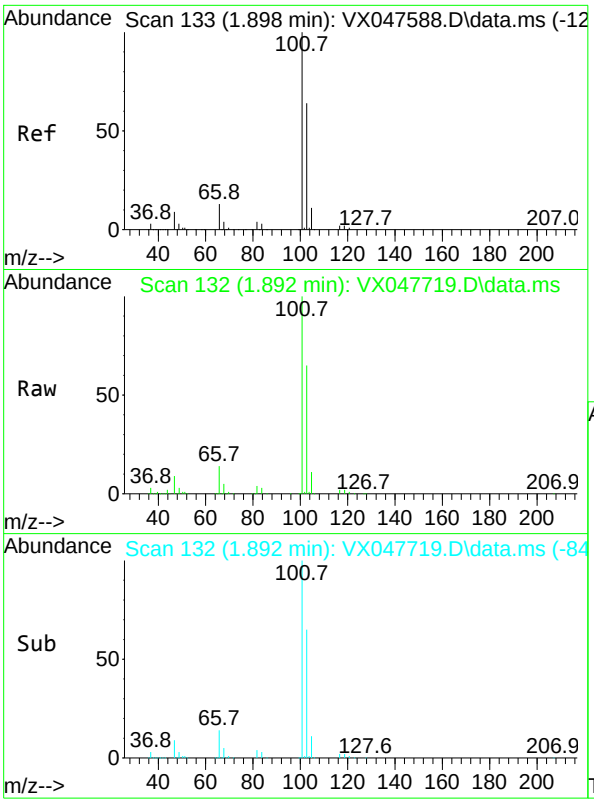


#6
Chloroethane
Concen: 57.762 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 64 Resp: 74922

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1

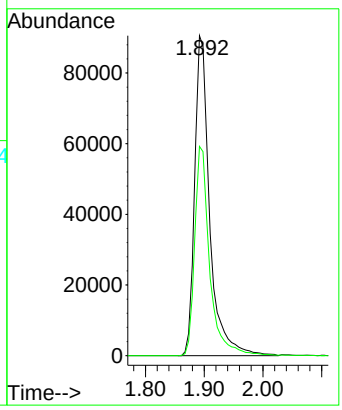




#7
Trichlorofluoromethane
Concen: 55.813 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:101 Resp: 16082

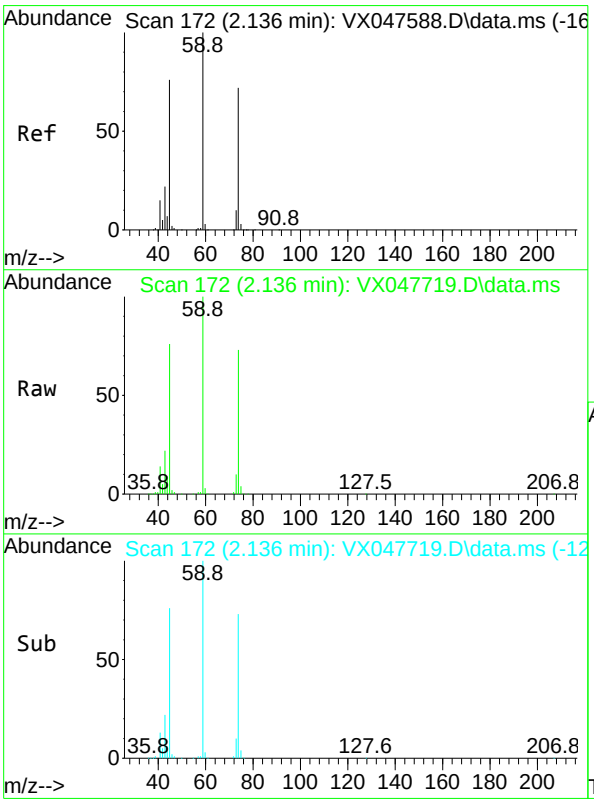
Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

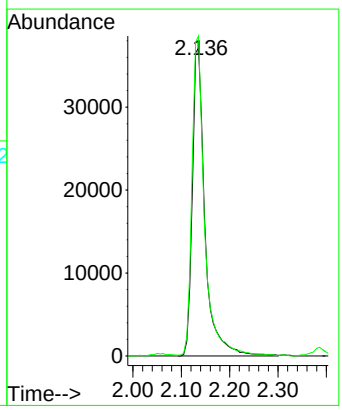
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

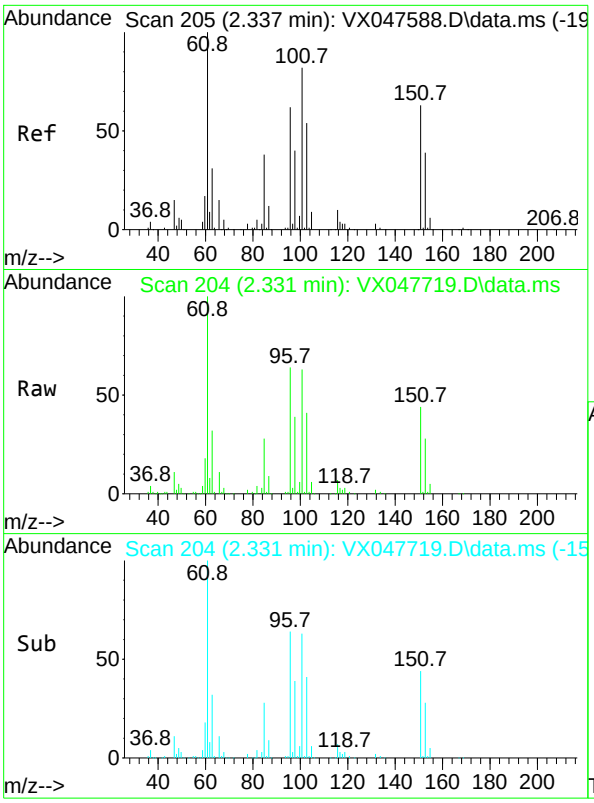


#8
Diethyl Ether
Concen: 57.259 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 74 Resp: 67493

Ion	Ratio	Lower	Upper
74	100		
45	104.1	52.3	156.8

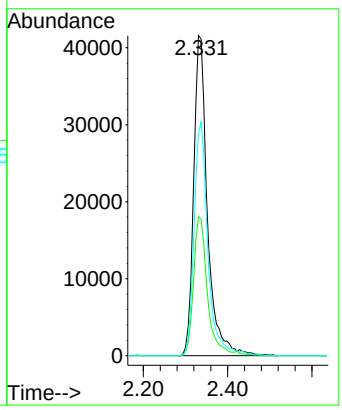




#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.200 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:101 Resp: 9469

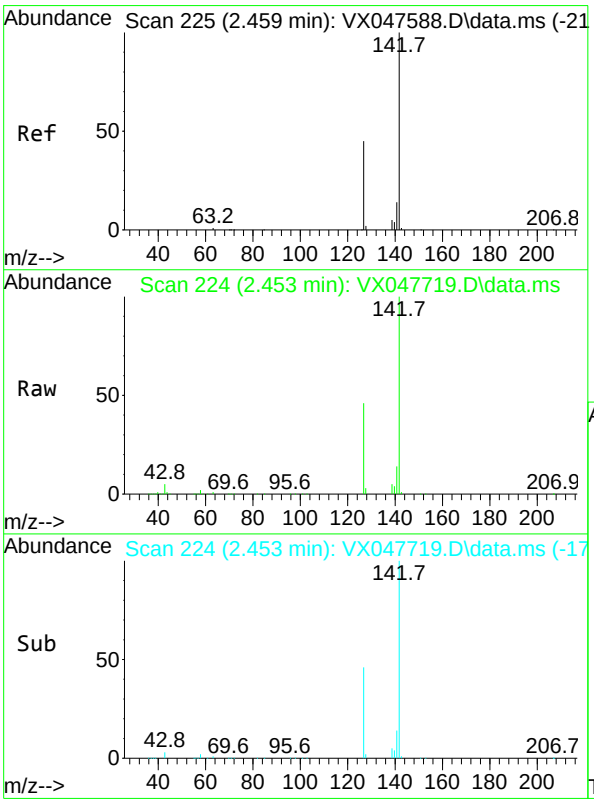
Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.5	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

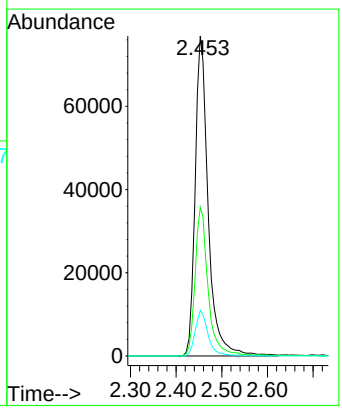
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

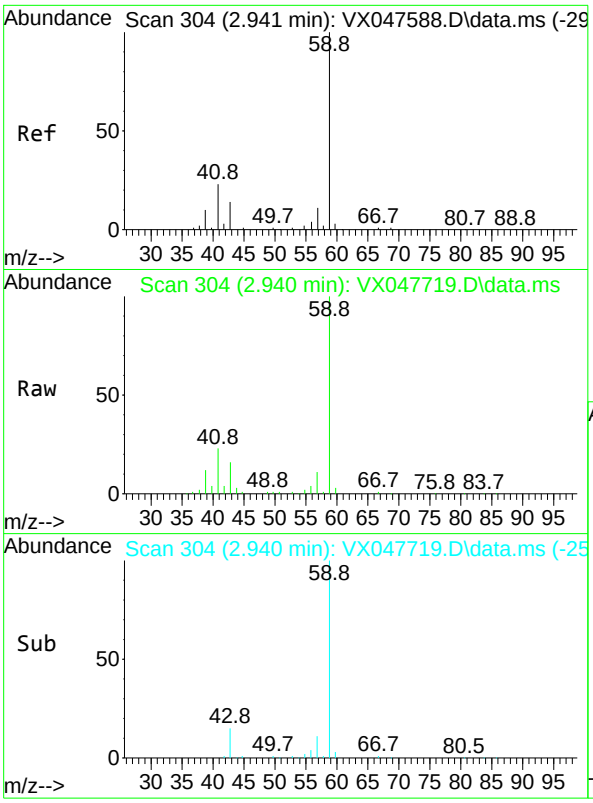


#10
Methyl Iodide
Concen: 58.055 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:142 Resp: 152554

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.2	11.4	17.0

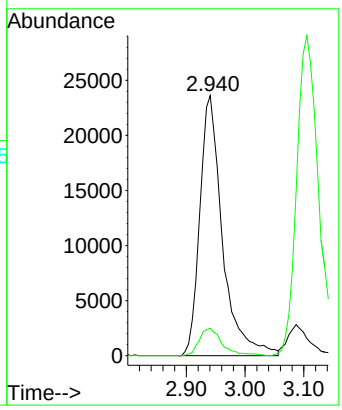




#11
Tert butyl alcohol
Concen: 244.621 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 59 Resp: 6317

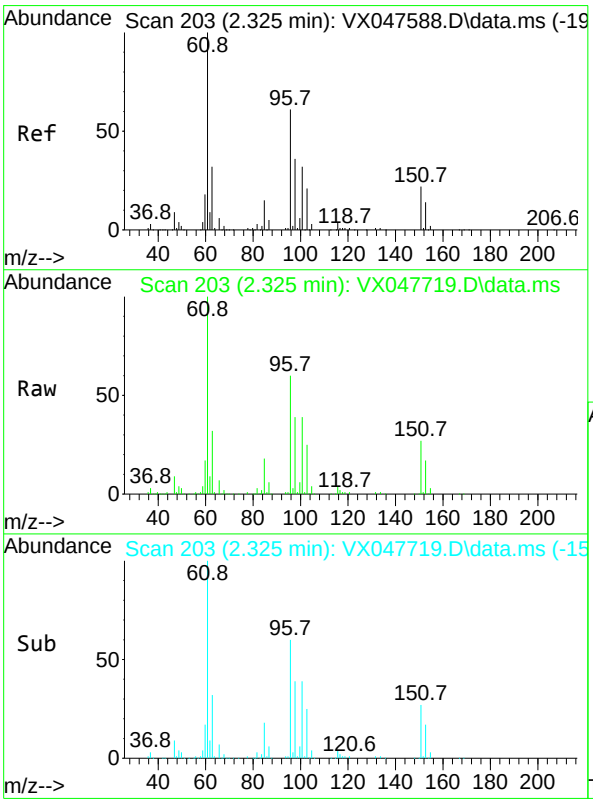
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

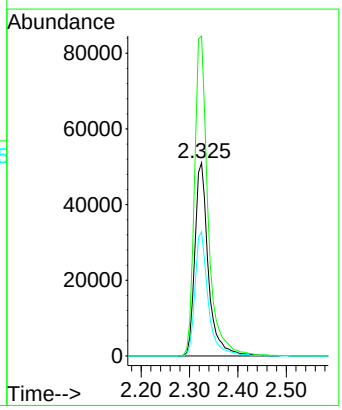
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

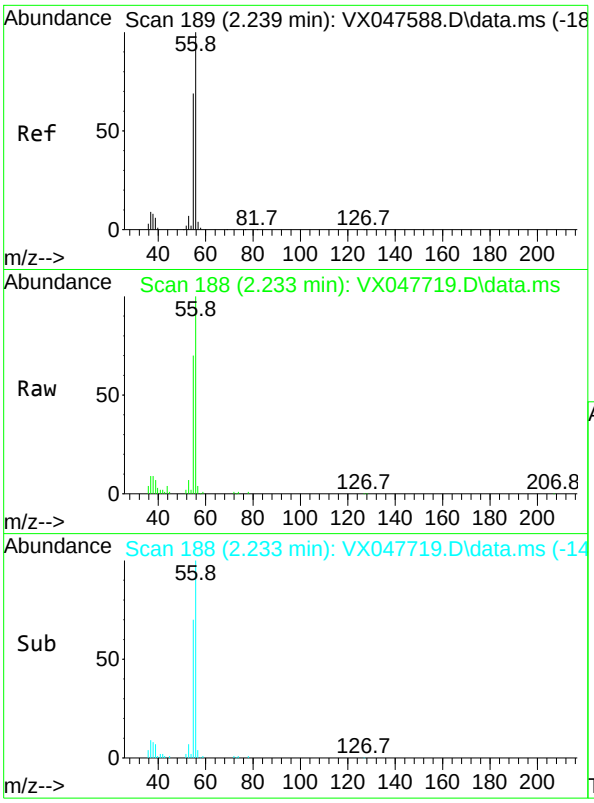


#12
1,1-Dichloroethene
Concen: 57.012 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 98672

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	64.2	47.7	71.5

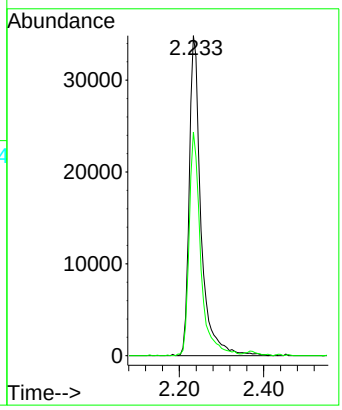




#13
Acrolein
Concen: 282.952 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 56 Resp: 6733

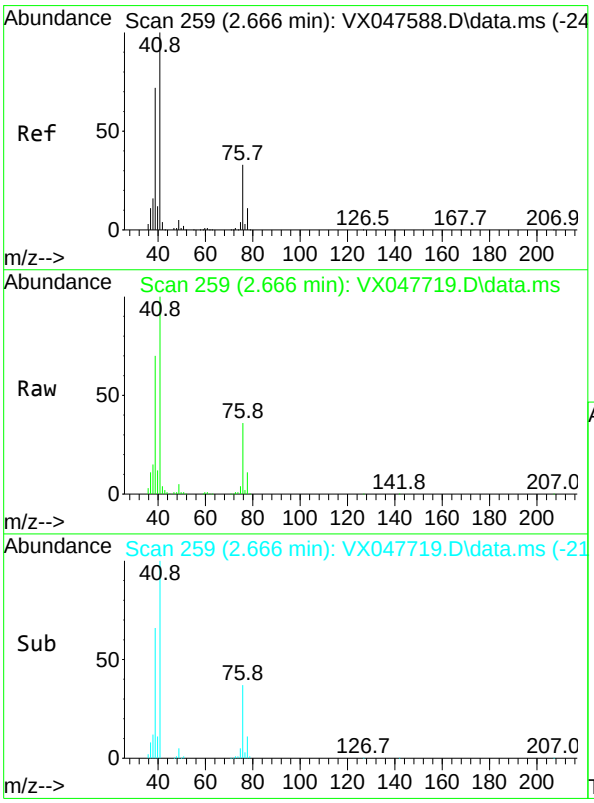
Ion	Ratio	Lower	Upper
56	100		
55	69.0	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

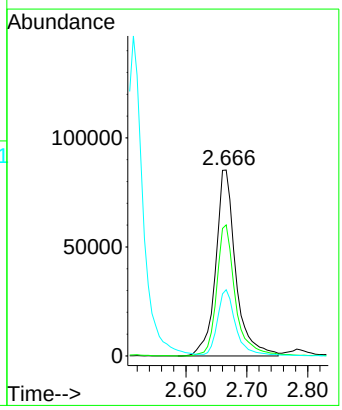
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

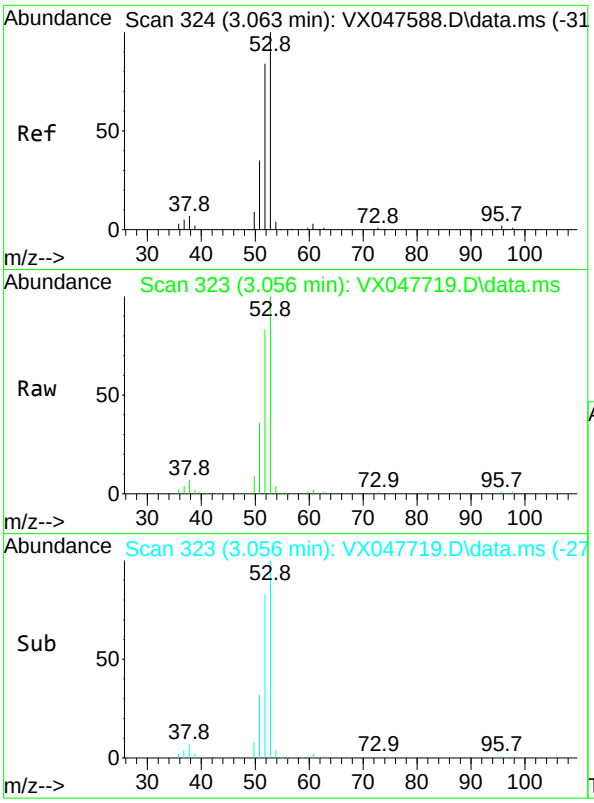


#14
Allyl chloride
Concen: 54.723 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 195439

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.7	82.1
76	32.6	25.7	38.5

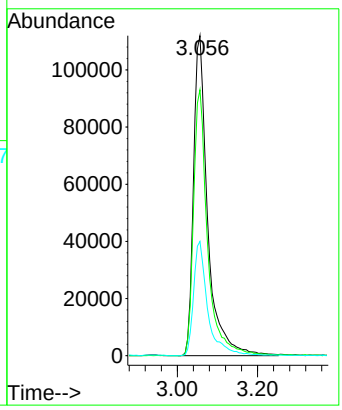




#15
Acrylonitrile
Concen: 287.505 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 53 Resp: 27501

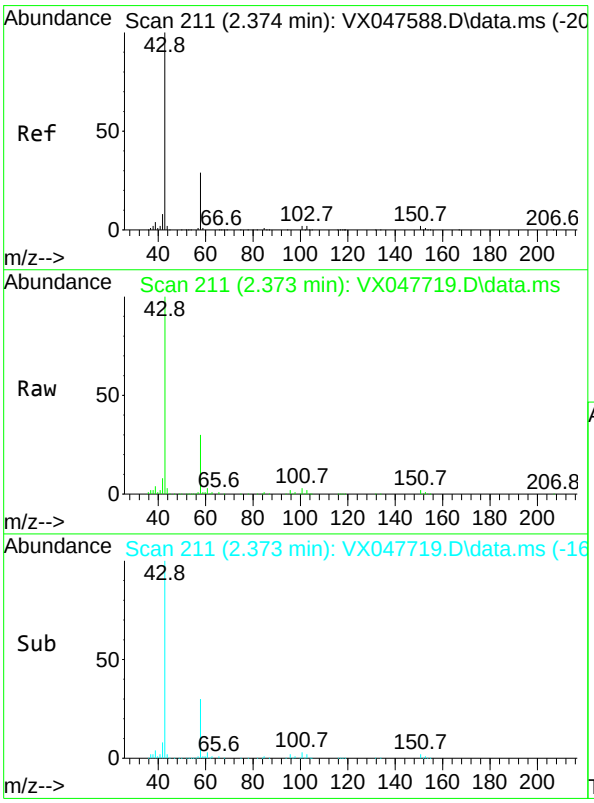
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	35.8	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

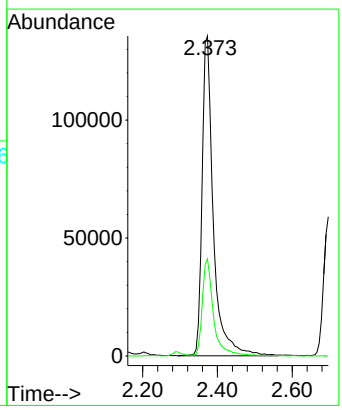
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

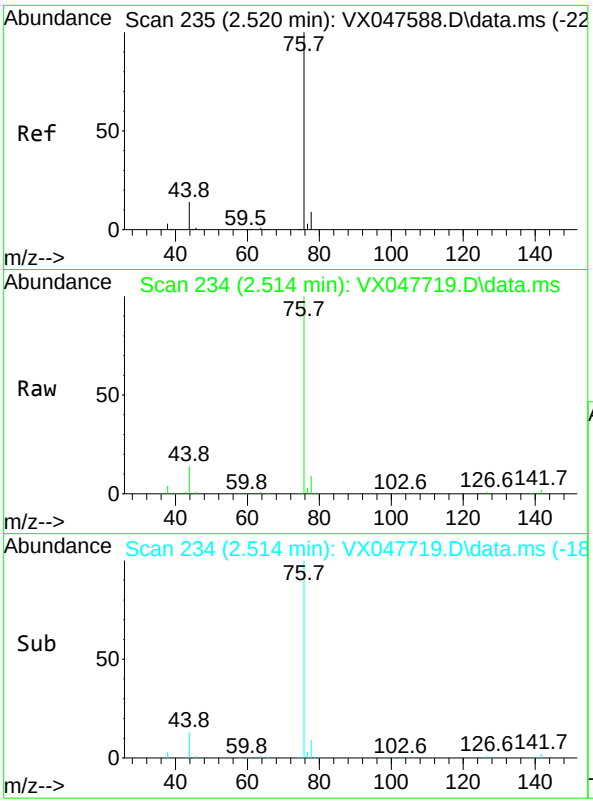


#16
Acetone
Concen: 280.166 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 282461

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0

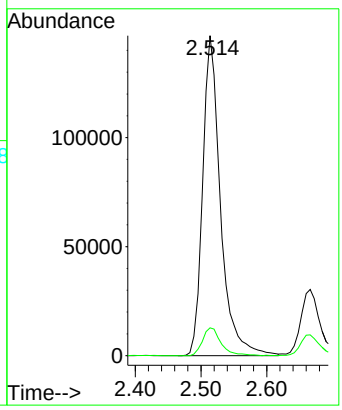




#17
Carbon Disulfide
Concen: 58.393 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 76 Resp: 27667

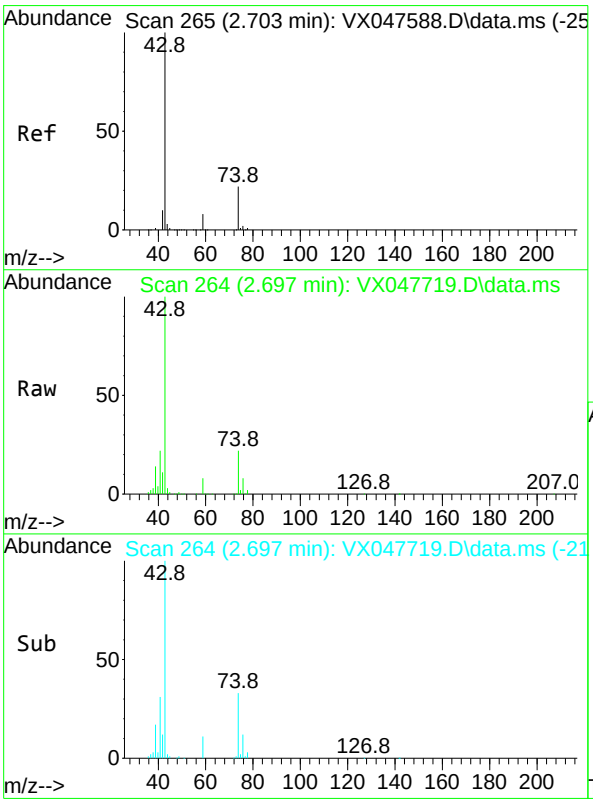
Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

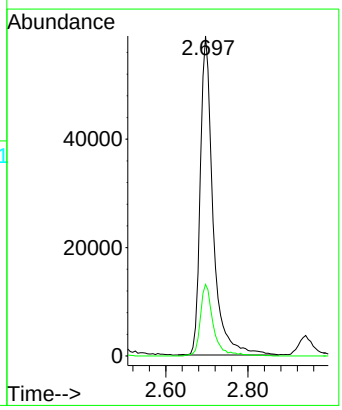
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

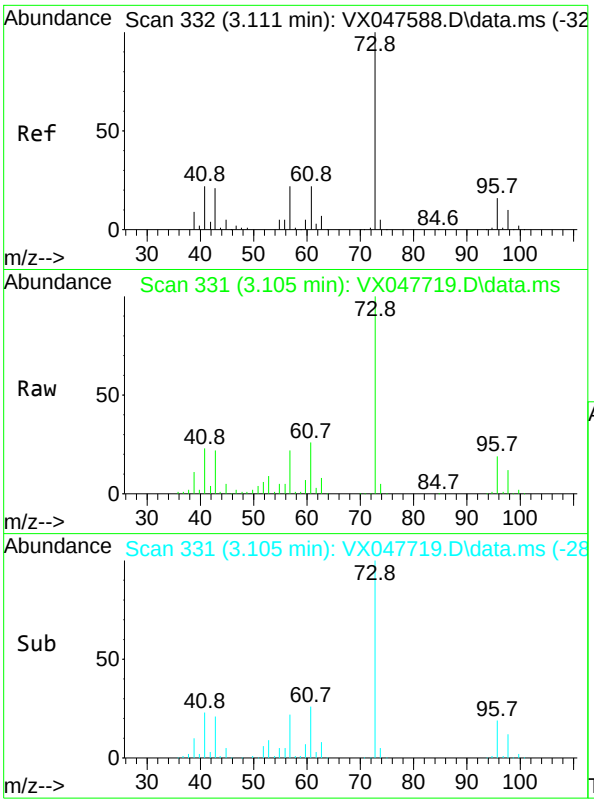


#18
Methyl Acetate
Concen: 56.673 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 127158

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

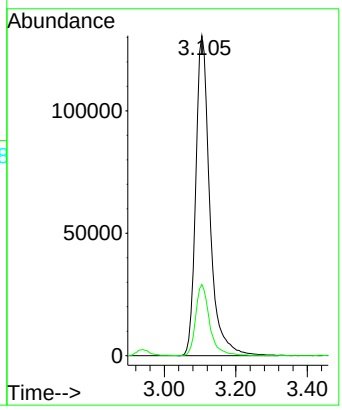




#19
Methyl tert-butyl Ether
Concen: 56.537 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 73 Resp: 35719

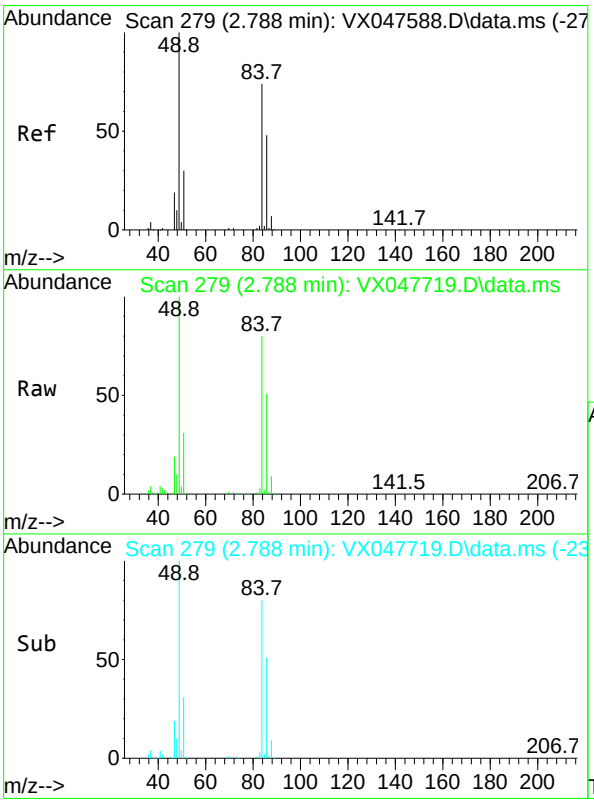
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

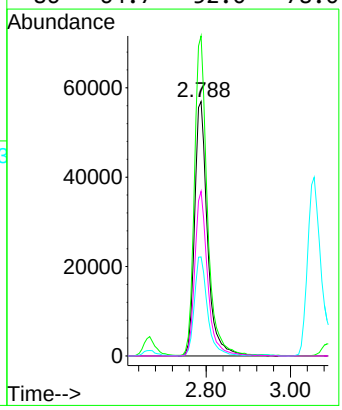
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

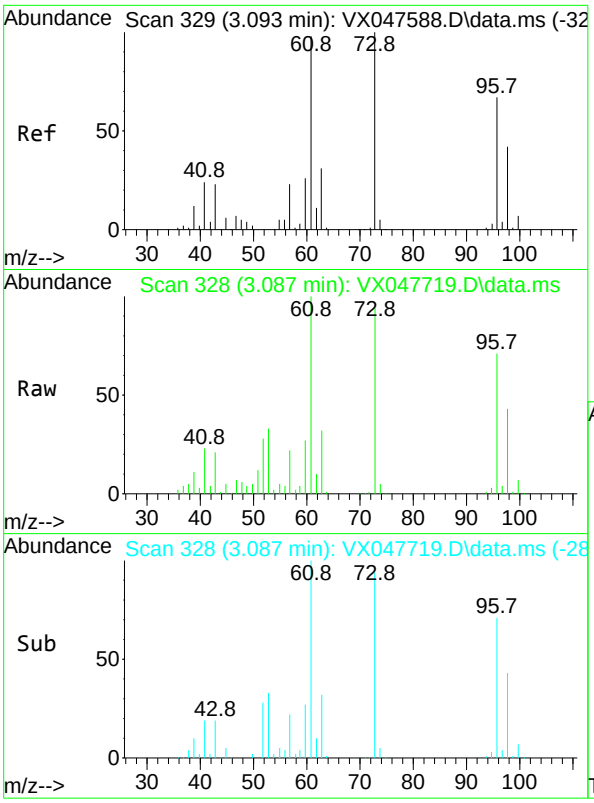


#20
Methylene Chloride
Concen: 56.815 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 84 Resp: 121247

Ion	Ratio	Lower	Upper
84	100		
49	125.5	108.6	162.8
51	38.9	32.6	48.8
86	64.7	52.0	78.0

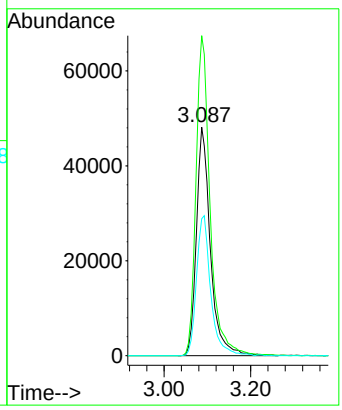




#21
trans-1,2-Dichloroethene
Concen: 57.928 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 10794

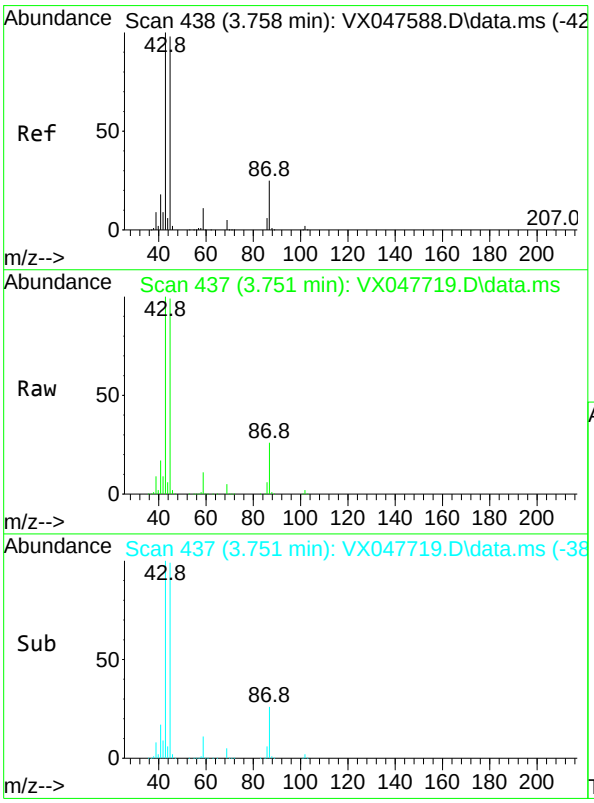
Ion	Ratio	Lower	Upper
96	100		
61	140.0	116.2	174.2
98	59.9	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

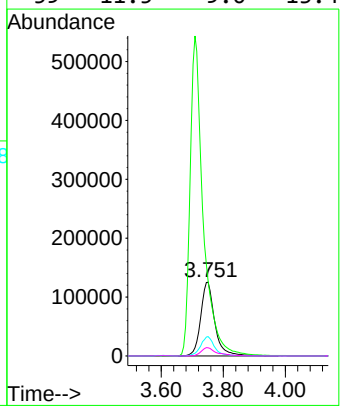
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

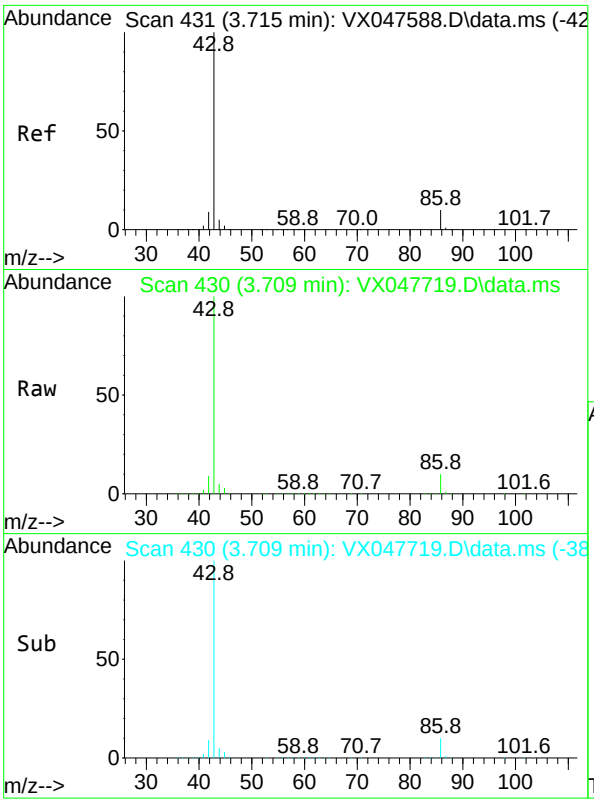


#22
Diisopropyl ether
Concen: 56.829 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 45 Resp: 393344

Ion	Ratio	Lower	Upper
45	100		
43	101.4	81.0	121.4
87	26.1	20.3	30.5
59	11.5	9.0	13.4

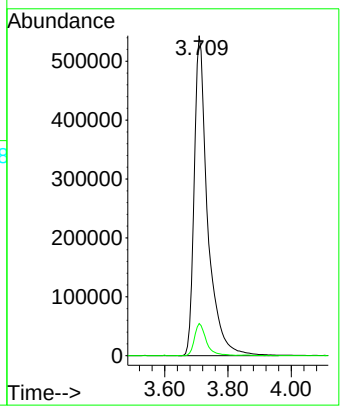




#23
Vinyl Acetate
Concen: 289.816 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 160546

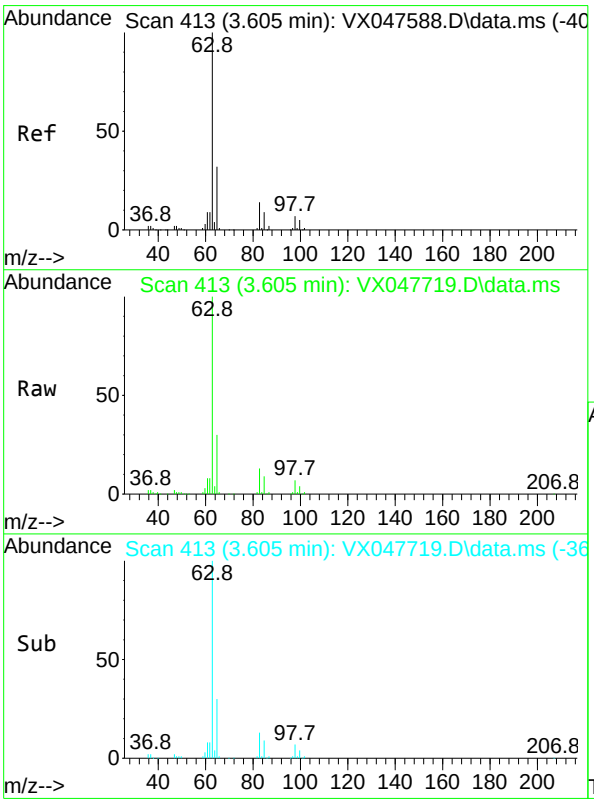
Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

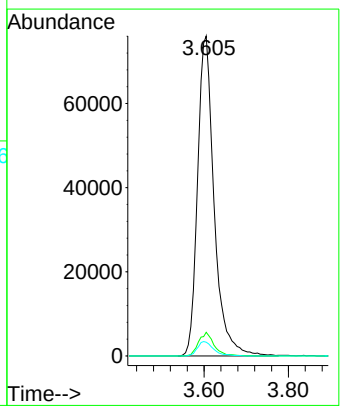
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

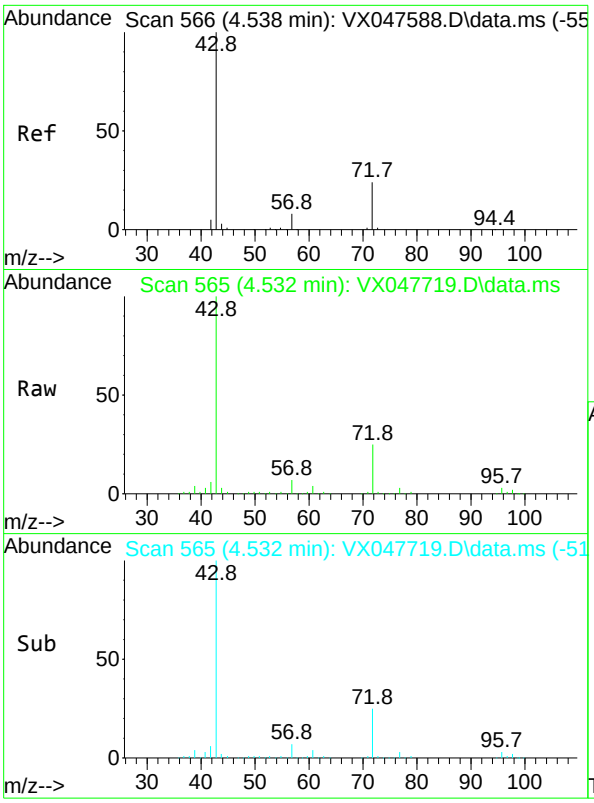


#24
1,1-Dichloroethane
Concen: 56.537 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 207990

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.3	2.3	6.9

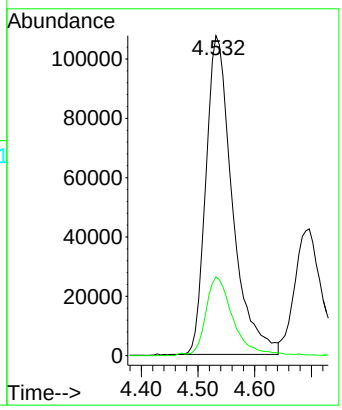




#25
2-Butanone
Concen: 276.163 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 34730

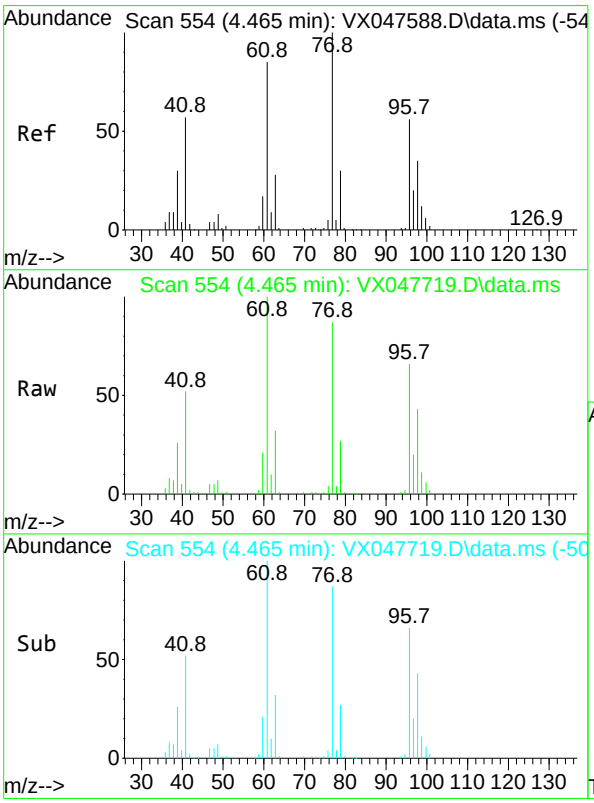
Ion	Ratio	Lower	Upper
43	100		
72	23.9	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

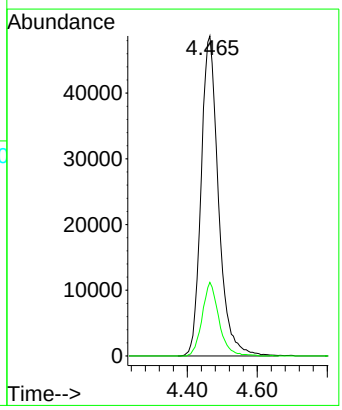
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

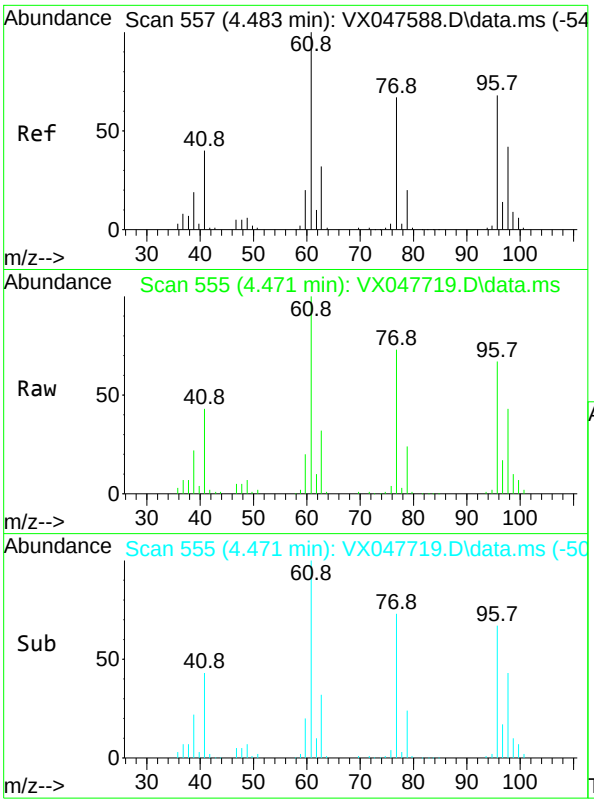


#26
2,2-Dichloropropane
Concen: 54.744 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 77 Resp: 167410

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.9	32.7

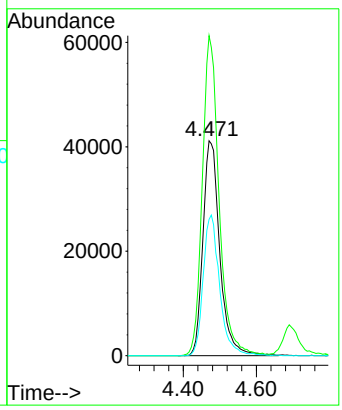




#27
cis-1,2-Dichloroethene
Concen: 57.629 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 13150

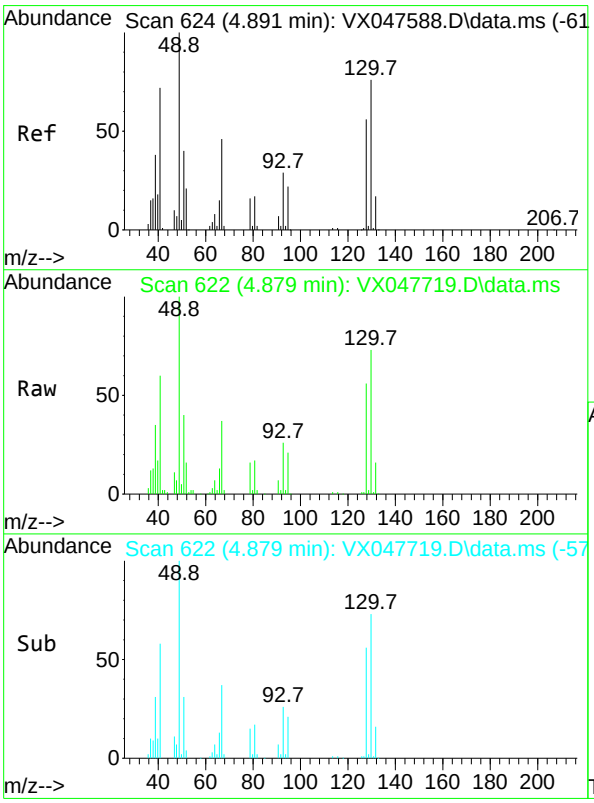
Ion	Ratio	Lower	Upper
96	100		
61	148.0	0.0	303.2
98	64.1	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

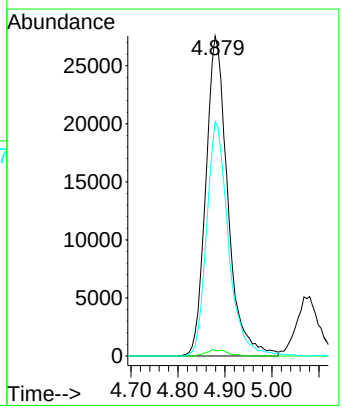
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

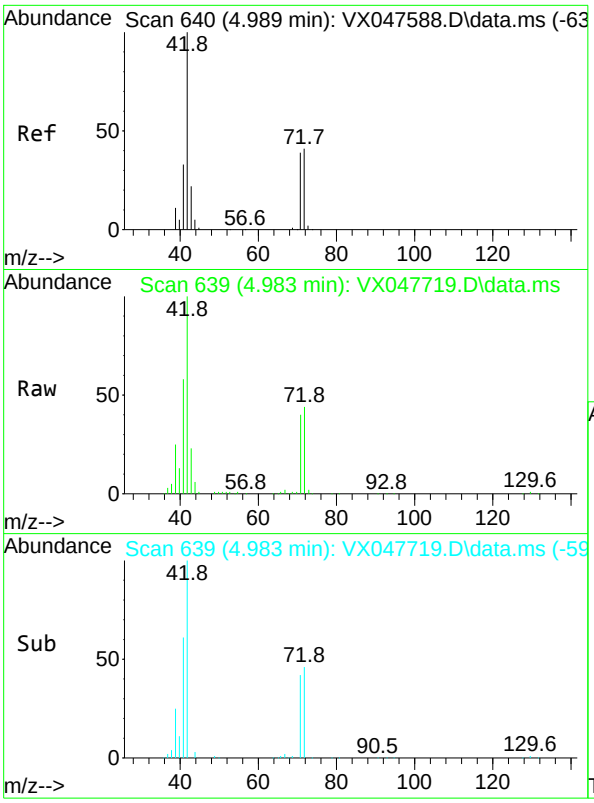


#28
Bromochloromethane
Concen: 55.520 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 49 Resp: 89169

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8

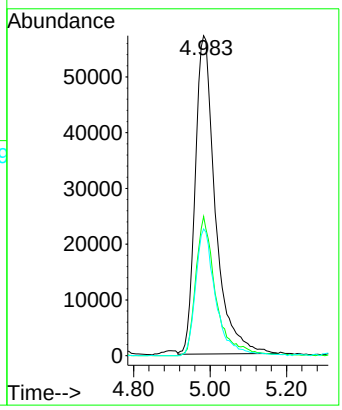




#29
Tetrahydrofuran
Concen: 274.666 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 42 Resp: 20779

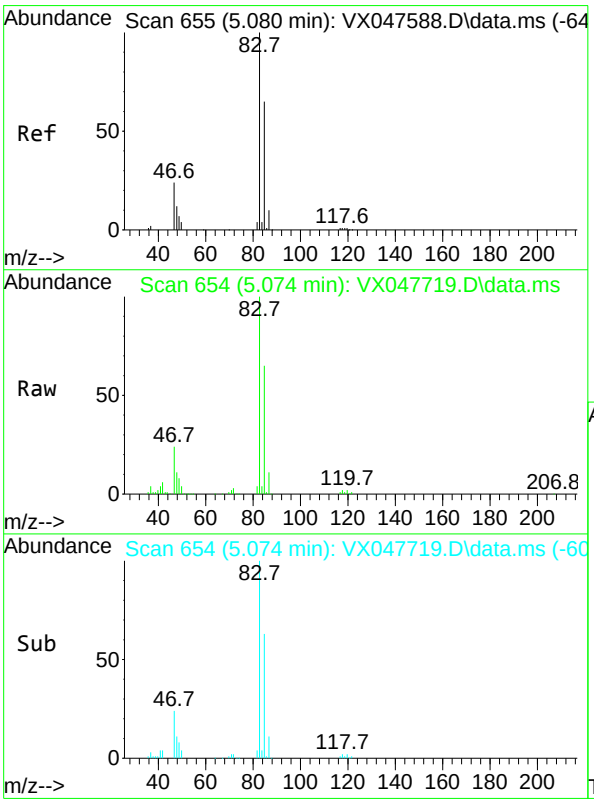
Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.2	51.2
71	40.0	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

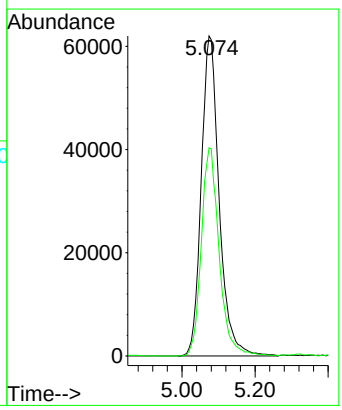
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

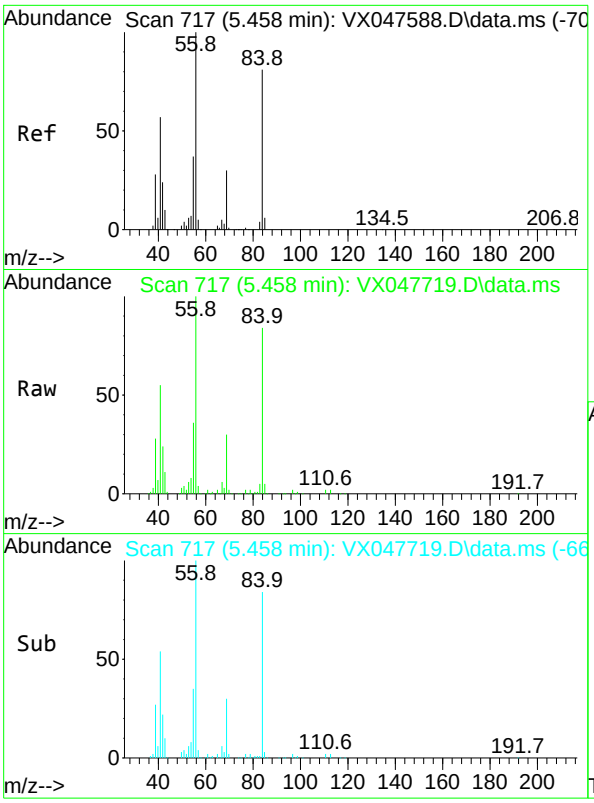


#30
Chloroform
Concen: 56.566 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 210287

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6

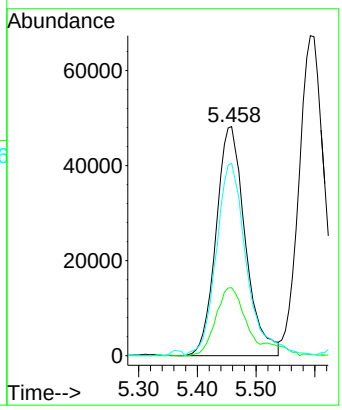




#31
Cyclohexane
Concen: 54.312 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 56 Resp: 16641

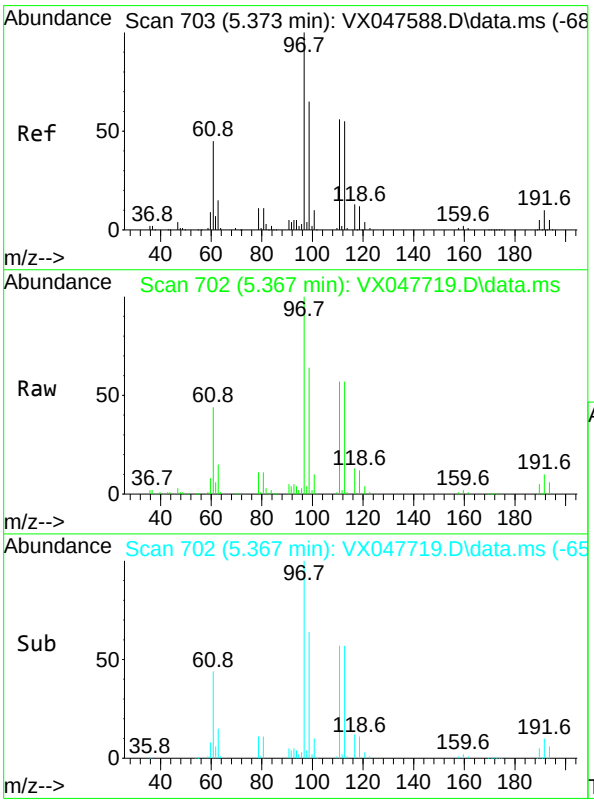
Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.8	35.8
84	81.9	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

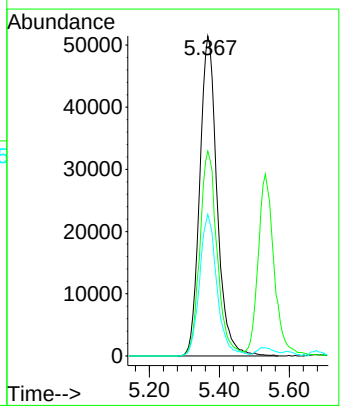
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

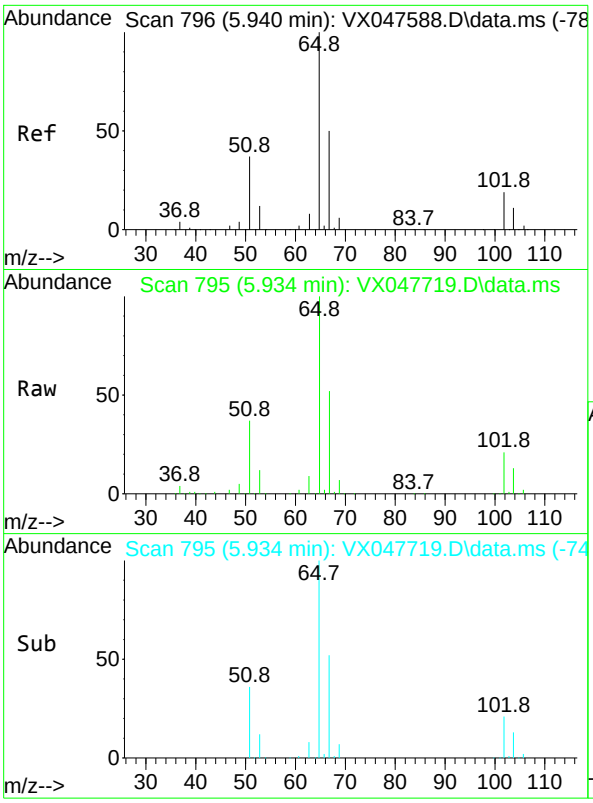


#32
1,1,1-Trichloroethane
Concen: 55.958 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 97 Resp: 176453

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.3	35.8	53.8

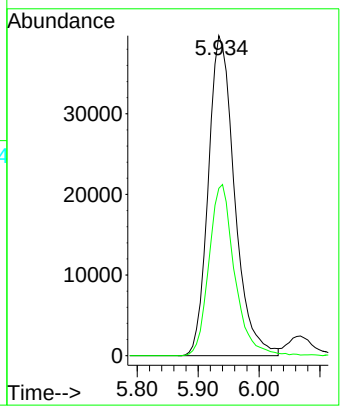




#33
1,2-Dichloroethane-d4
Concen: 51.280 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 65 Resp: 11890

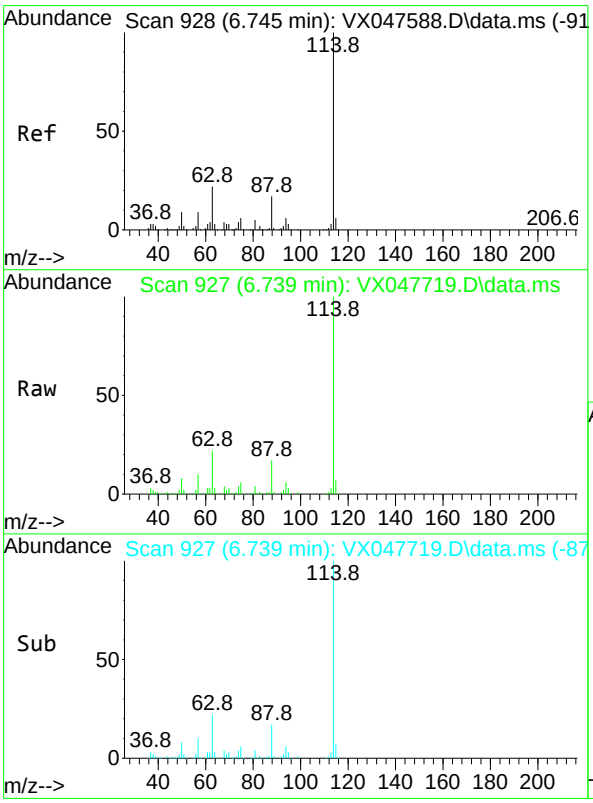
Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

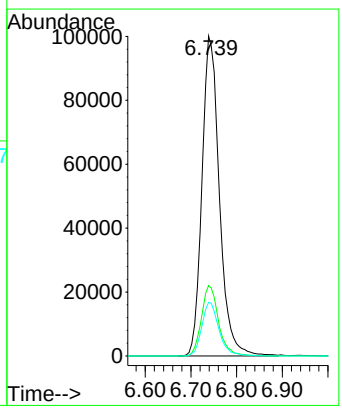
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

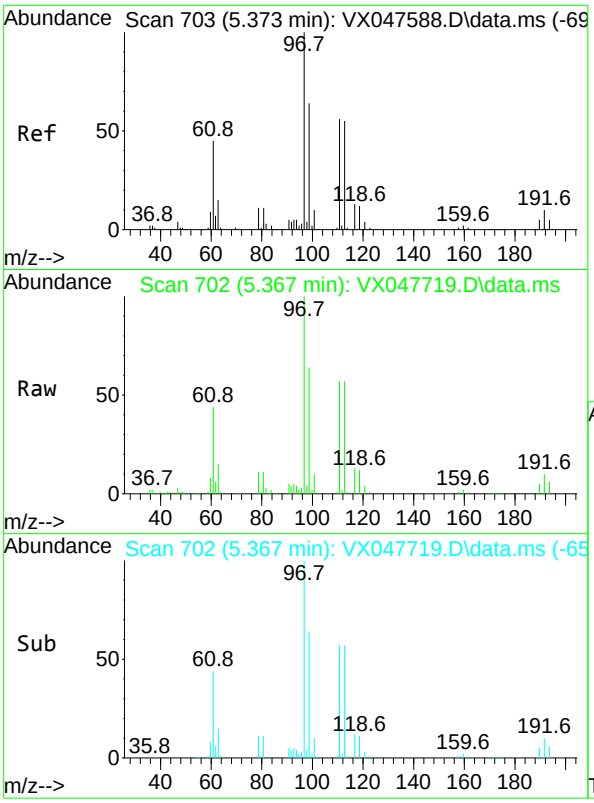


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:114 Resp: 265022

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	16.8	0.0	34.2

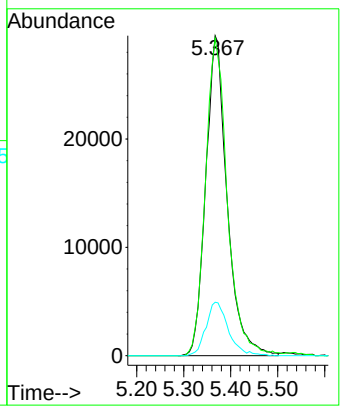




#35
Dibromofluoromethane
Concen: 52.461 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:113 Resp: 9324

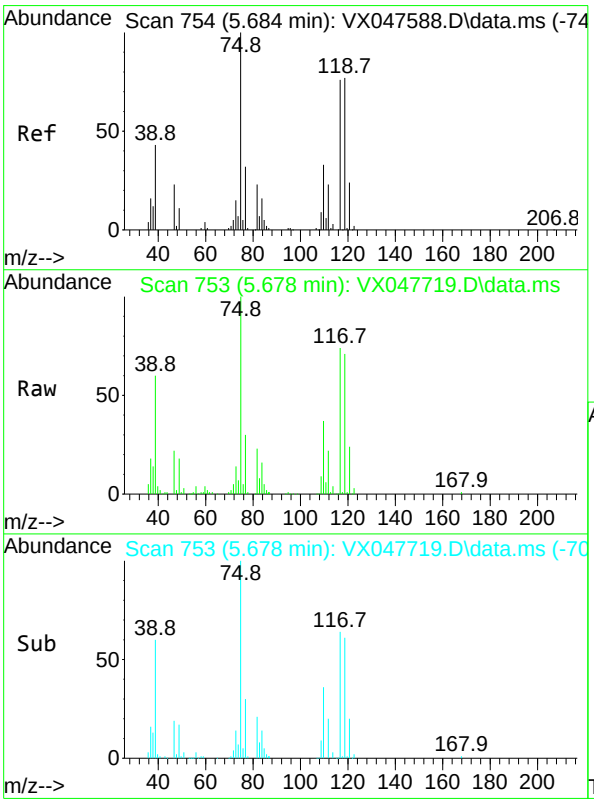
Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	17.5	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

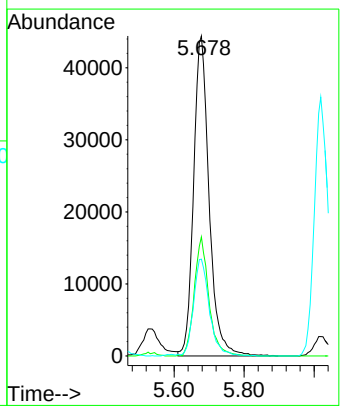
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

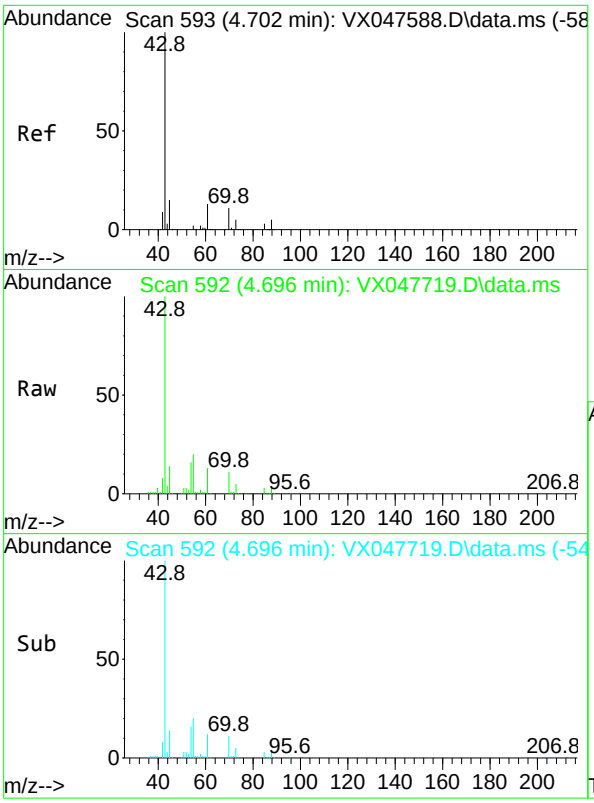


#36
1,1-Dichloropropene
Concen: 52.619 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 136661

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.7	50.1
77	30.9	24.3	36.5

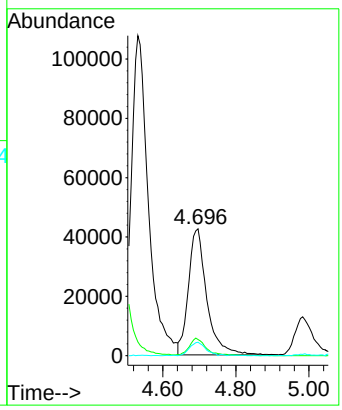




#37
Ethyl Acetate
Concen: 53.244 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 14806

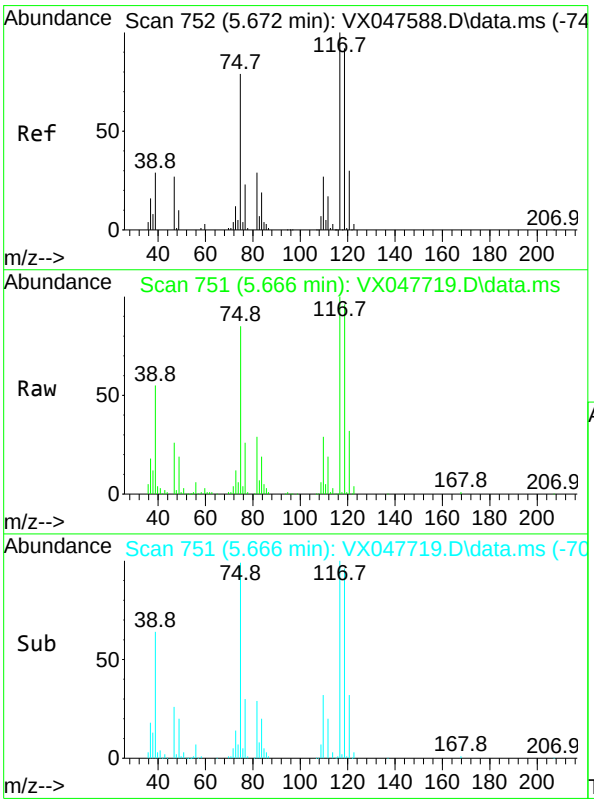
Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.3	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

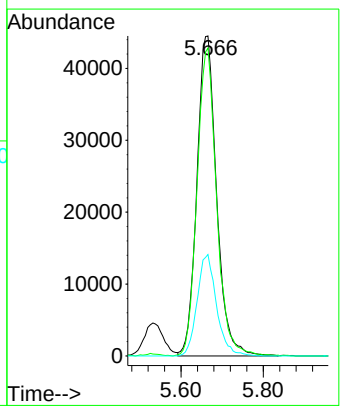
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

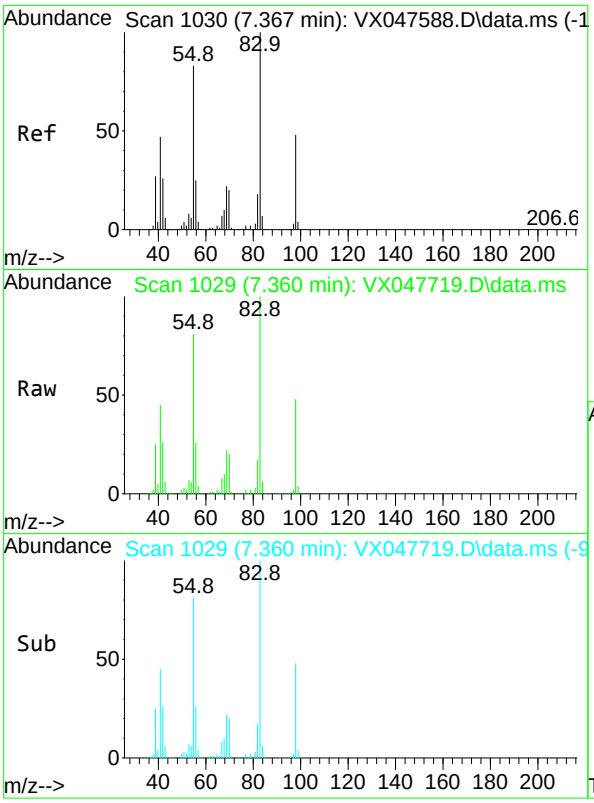


#38
Carbon Tetrachloride
Concen: 52.659 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 148597

Ion	Ratio	Lower	Upper
117	100		
119	96.0	73.4	110.2
121	31.7	23.8	35.6

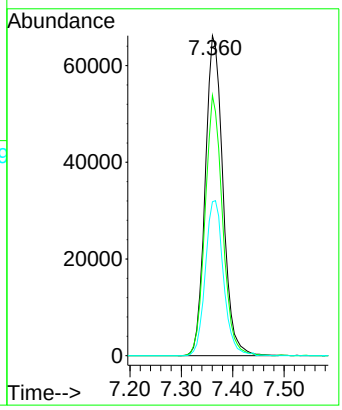




#39
Methylcyclohexane
Concen: 53.805 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 15862

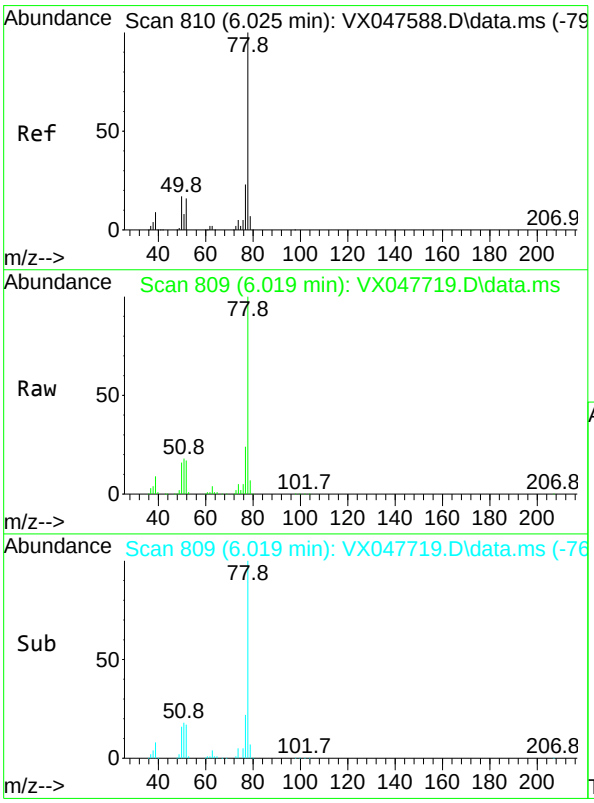
Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	48.1	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

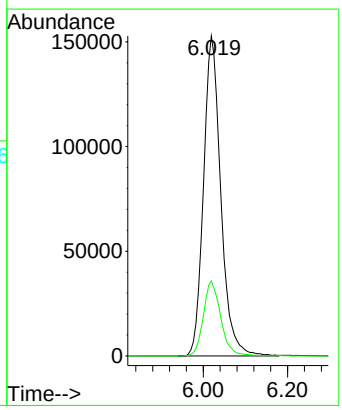
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

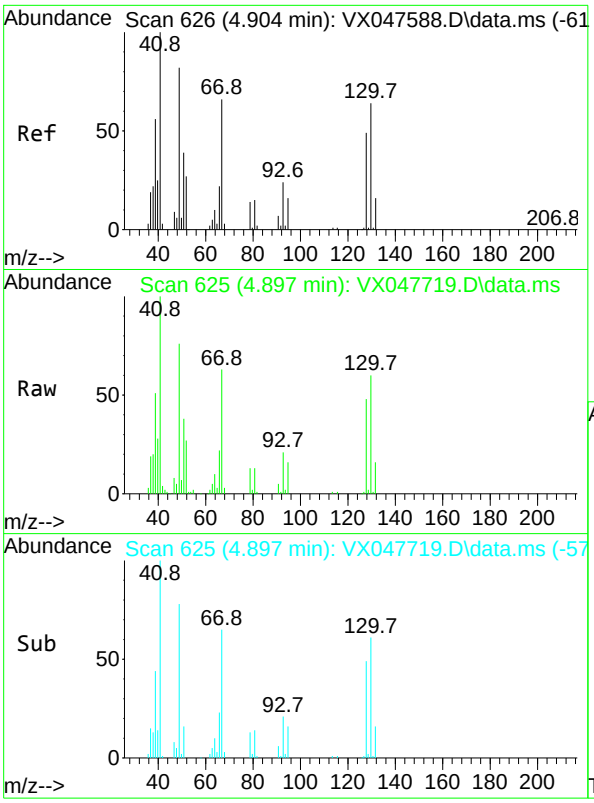


#40
Benzene
Concen: 55.328 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 78 Resp: 436446

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

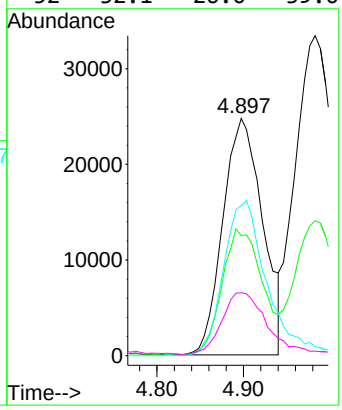




#41
Methacrylonitrile
Concen: 55.020 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 7898

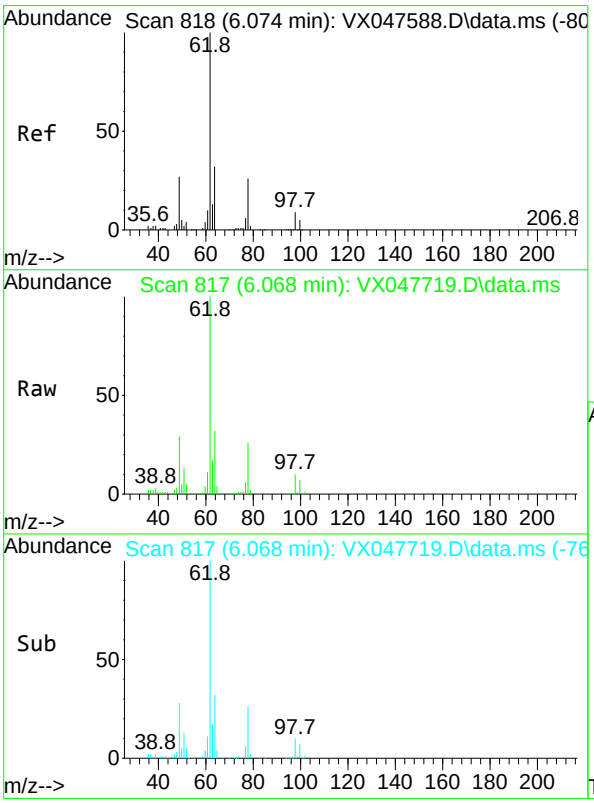
Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.3	64.9
67	72.0	58.6	87.8
52	32.1	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

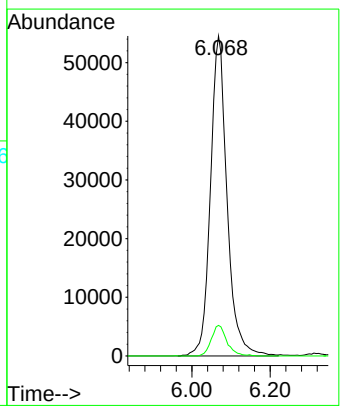
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

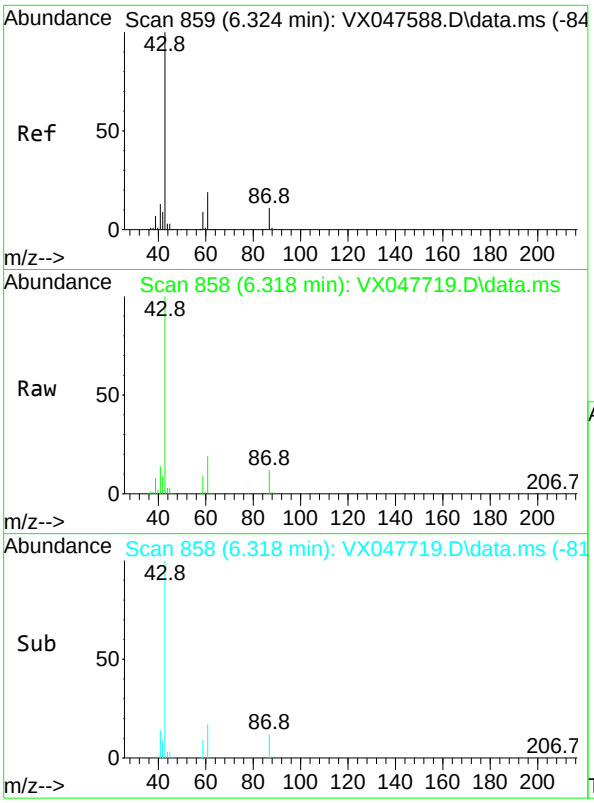


#42
1,2-Dichloroethane
Concen: 53.472 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 160490

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0

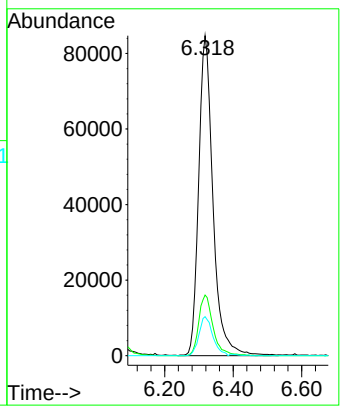




#43
Isopropyl Acetate
Concen: 54.094 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 24670

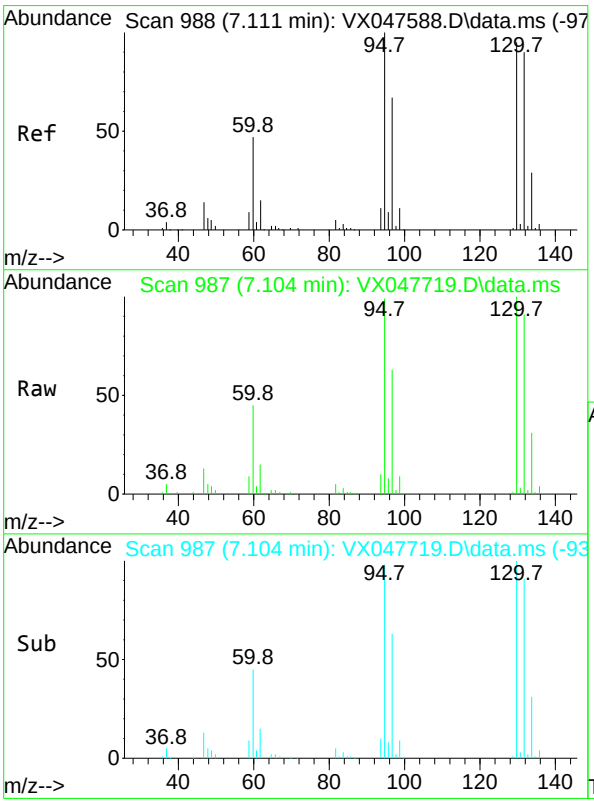
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	11.7	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

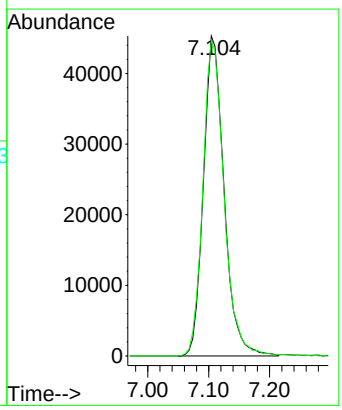
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

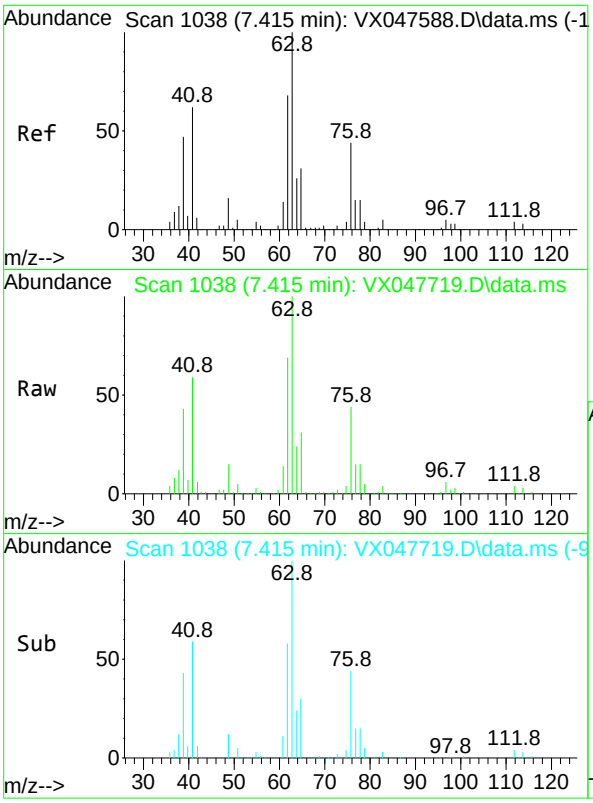


#44
Trichloroethene
Concen: 55.974 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:130 Resp: 106747

Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	210.8

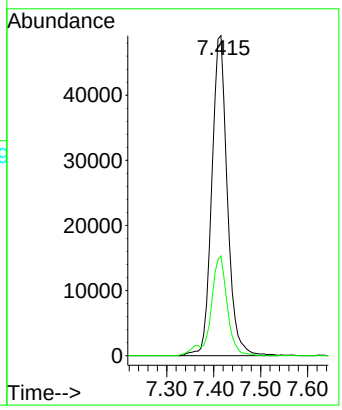




#45
1,2-Dichloropropane
Concen: 55.852 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 11281

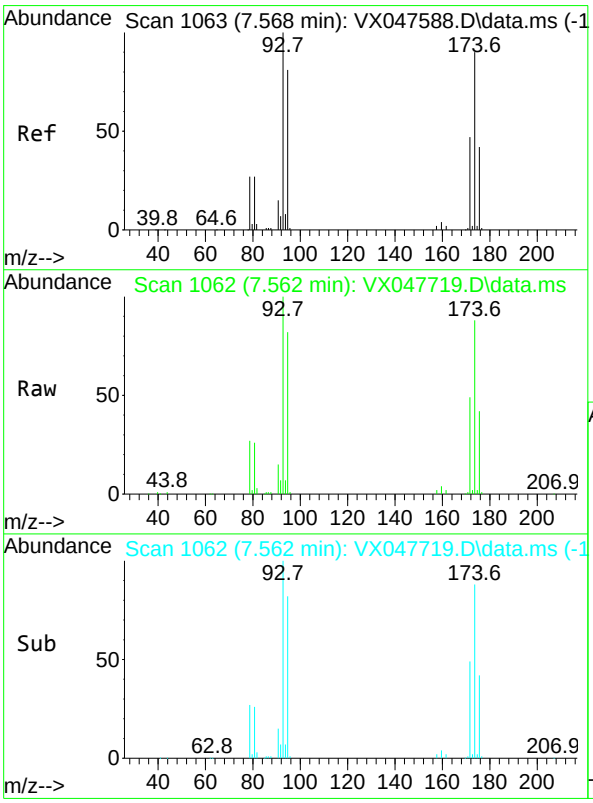
Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

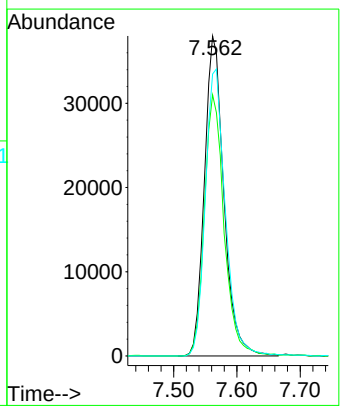
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

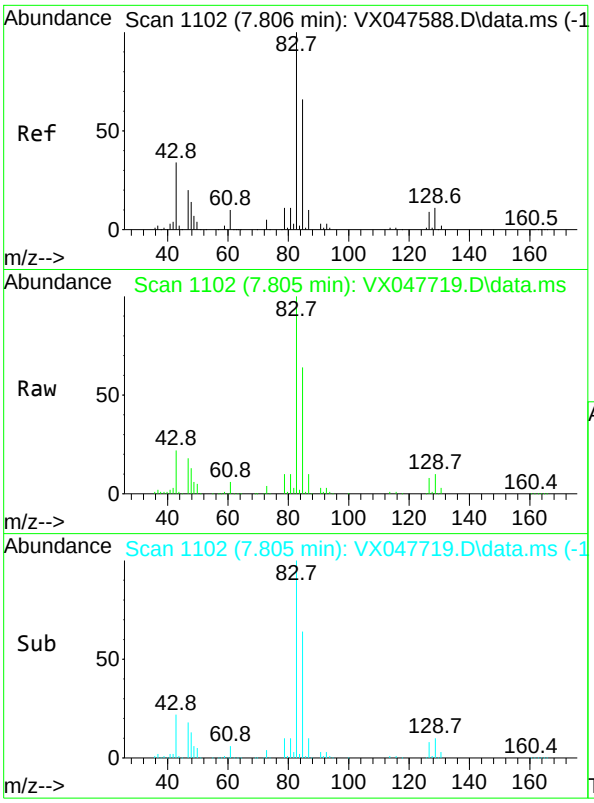


#46
Dibromomethane
Concen: 55.264 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 93 Resp: 81231

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.0	97.6
174	92.6	71.6	107.4

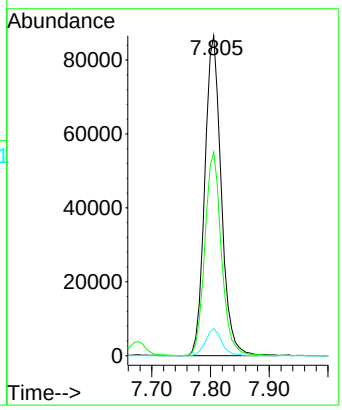




#47
Bromodichloromethane
Concen: 55.419 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 16809

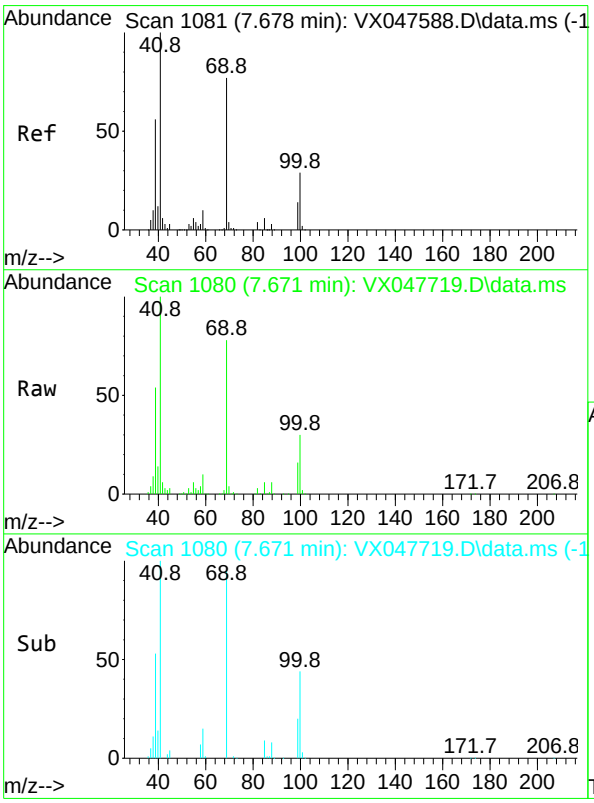
Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.5	78.7
127	8.4	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

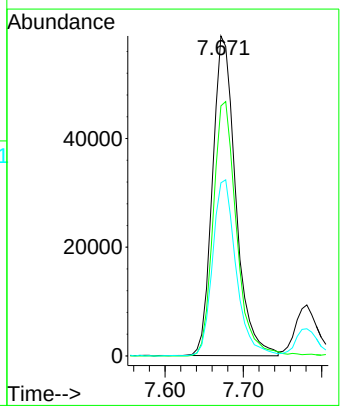
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

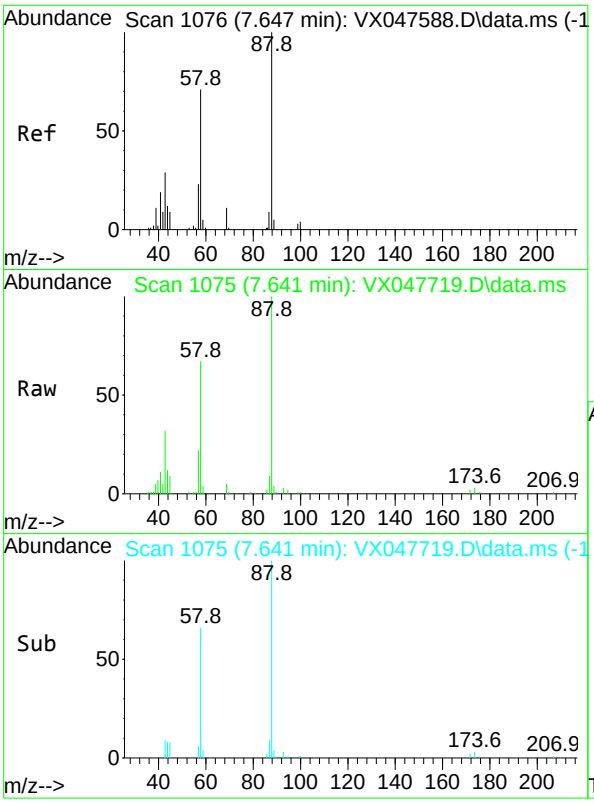


#48
Methyl methacrylate
Concen: 53.434 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 121390

Ion	Ratio	Lower	Upper
41	100		
69	79.4	61.4	92.2
39	55.8	45.8	68.6

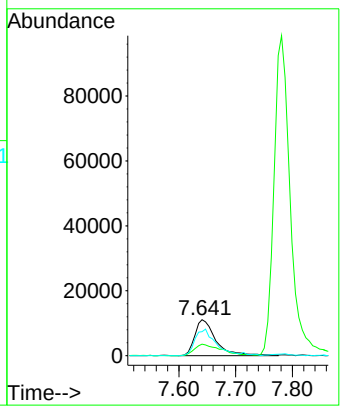




#49
1,4-Dioxane
Concen: 1254.001 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 88 Resp: 2879

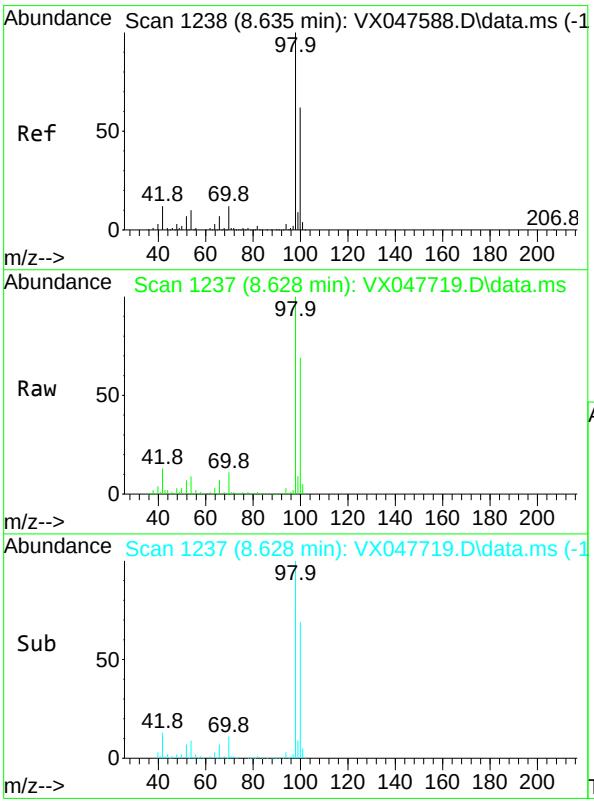
Ion	Ratio	Lower	Upper
88	100		
43	40.3	30.2	45.2
58	74.5	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

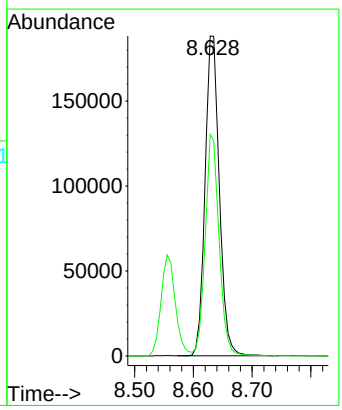
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

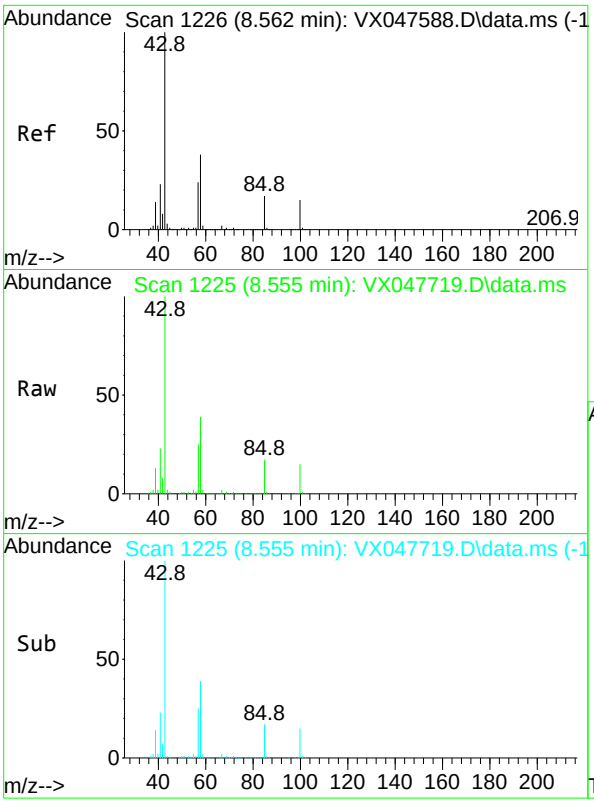


#50
Toluene-d8
Concen: 51.720 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 98 Resp: 318085

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

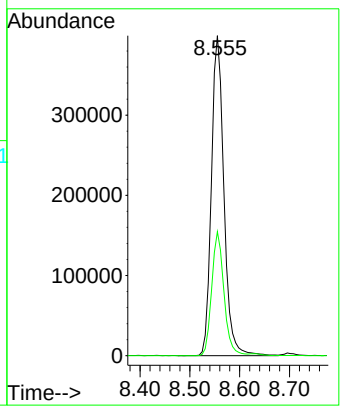




#51
4-Methyl-2-Pentanone
Concen: 275.127 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 69570

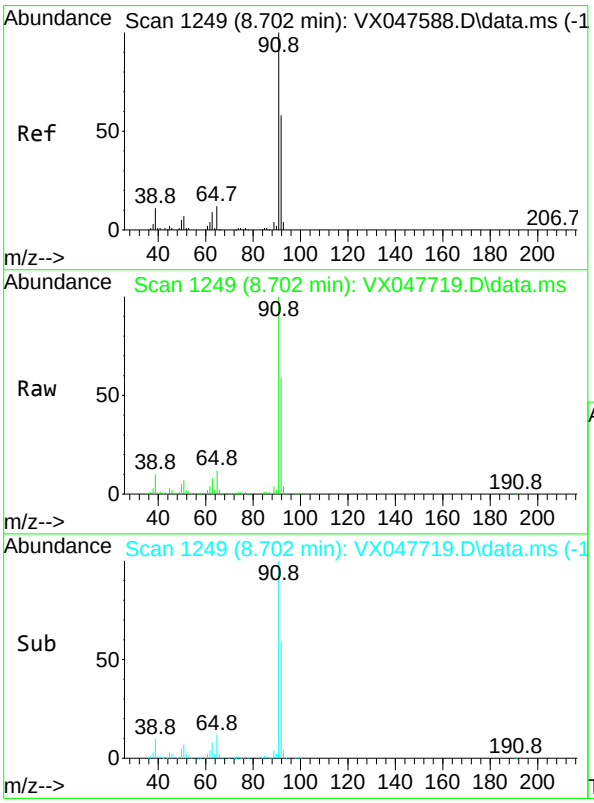
Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

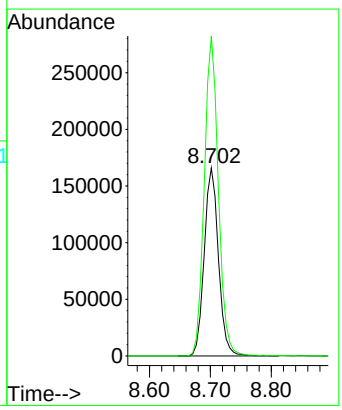
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

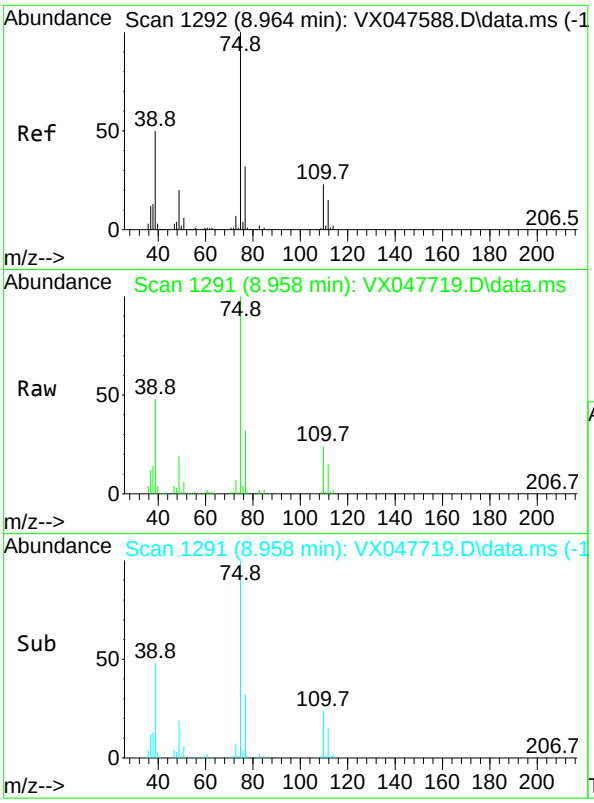


#52
Toluene
Concen: 55.411 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 92 Resp: 269293

Ion	Ratio	Lower	Upper
92	100		
91	168.5	137.1	205.7

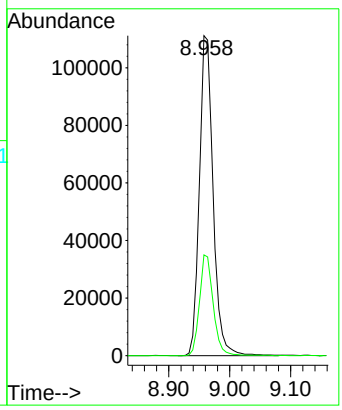




#53
t-1,3-Dichloropropene
Concen: 56.347 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 17433

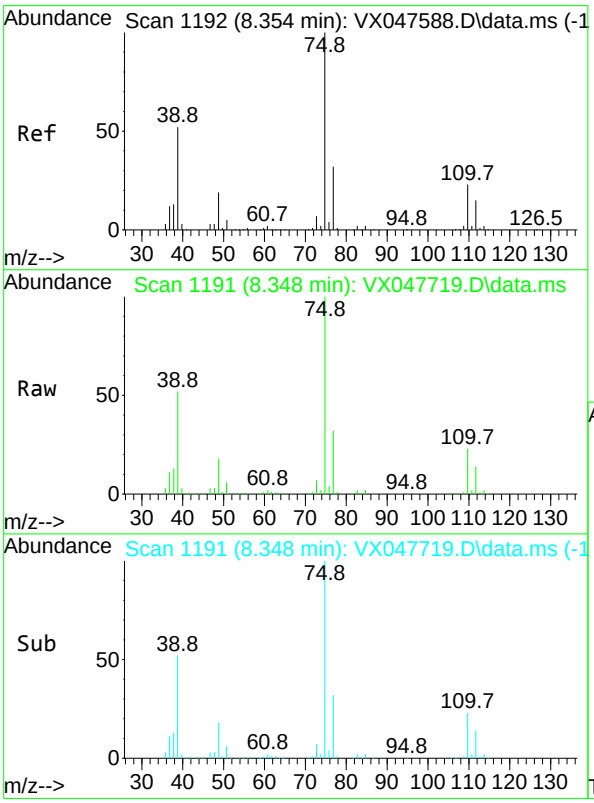
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

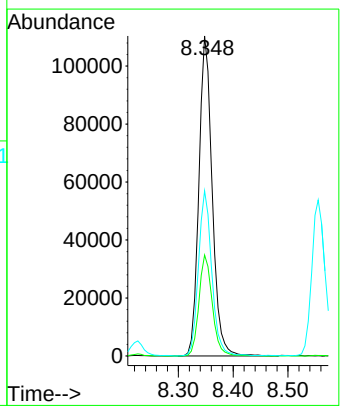
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

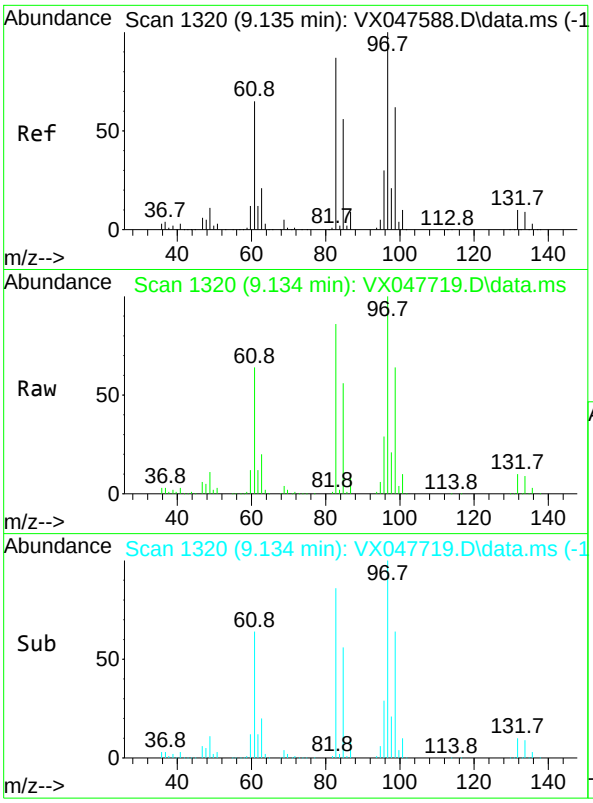


#54
cis-1,3-Dichloropropene
Concen: 56.434 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 186621

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.8	38.6
39	51.5	41.4	62.2

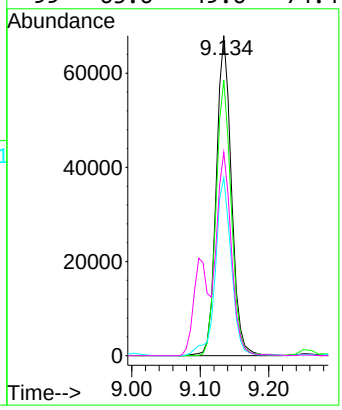




#55
1,1,2-Trichloroethane
Concen: 55.502 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 97 Resp: 10400

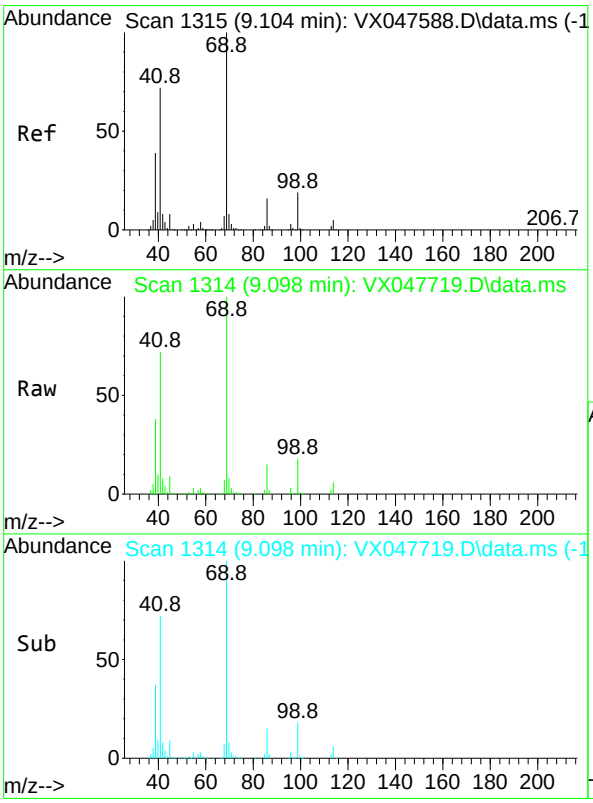
Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.6	45.0	67.6
99	63.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

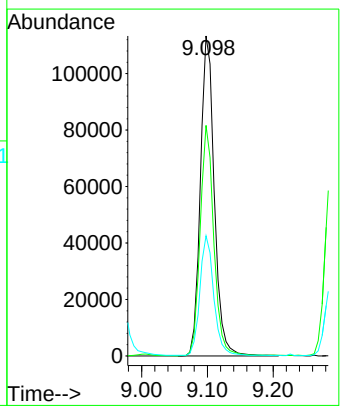
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

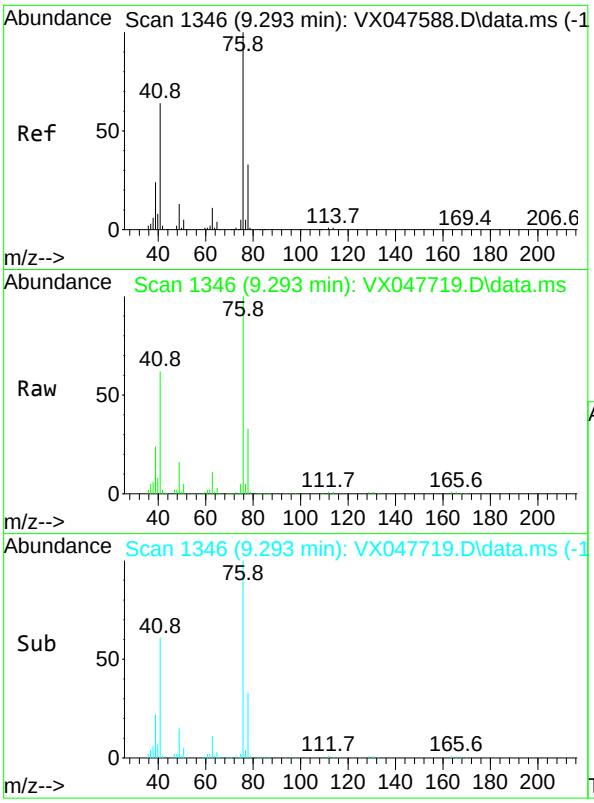


#56
Ethyl methacrylate
Concen: 56.751 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 69 Resp: 167018

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.2	31.5	47.3

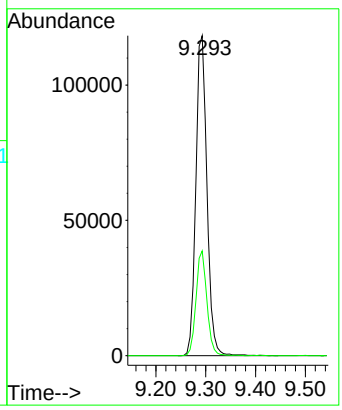




#57
1,3-Dichloropropane
Concen: 56.707 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 76 Resp: 18255

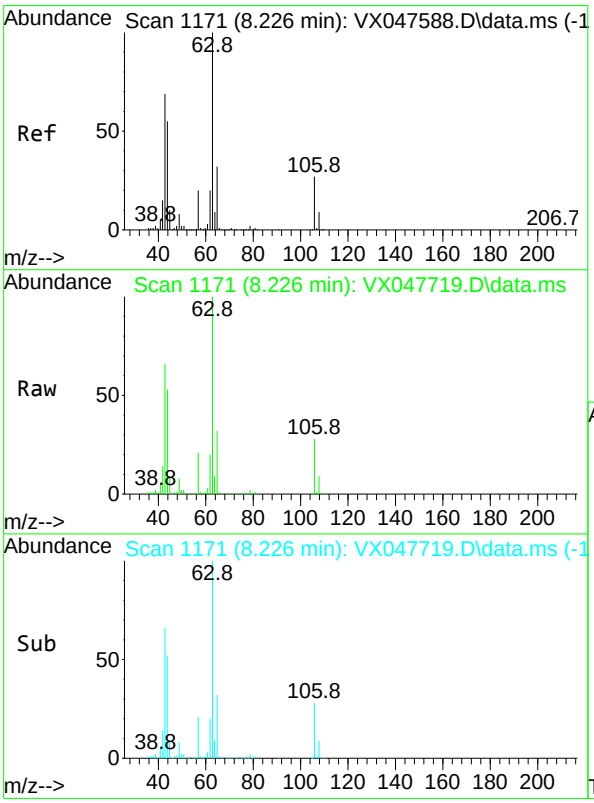
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

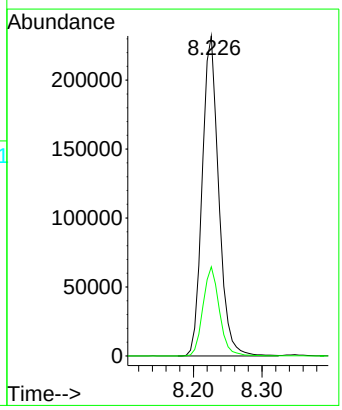
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

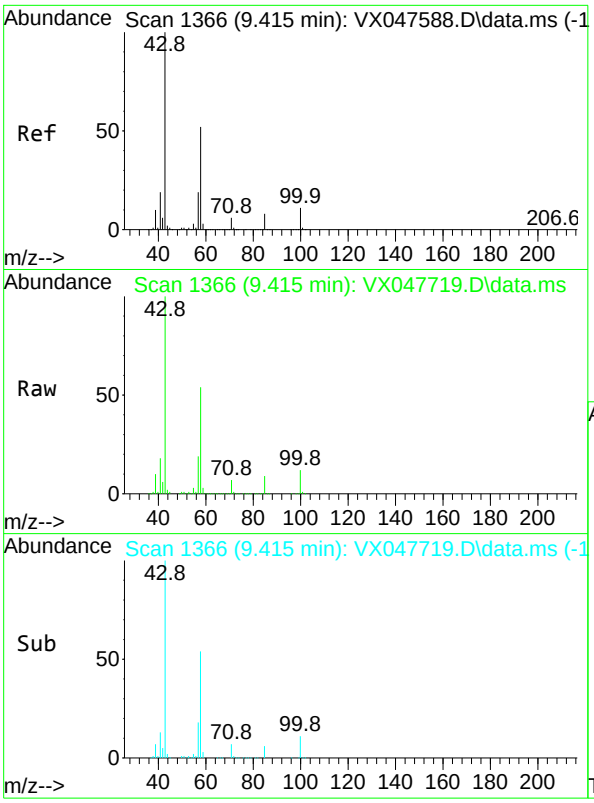


#58
2-Chloroethyl Vinyl ether
Concen: 274.956 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 389211

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9

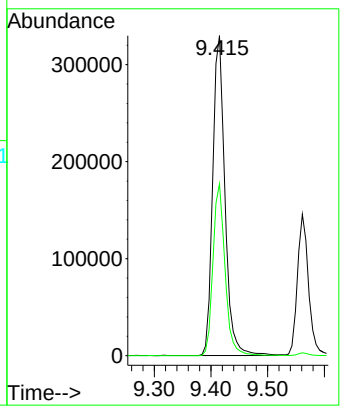




#59
2-Hexanone
Concen: 272.845 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 49551

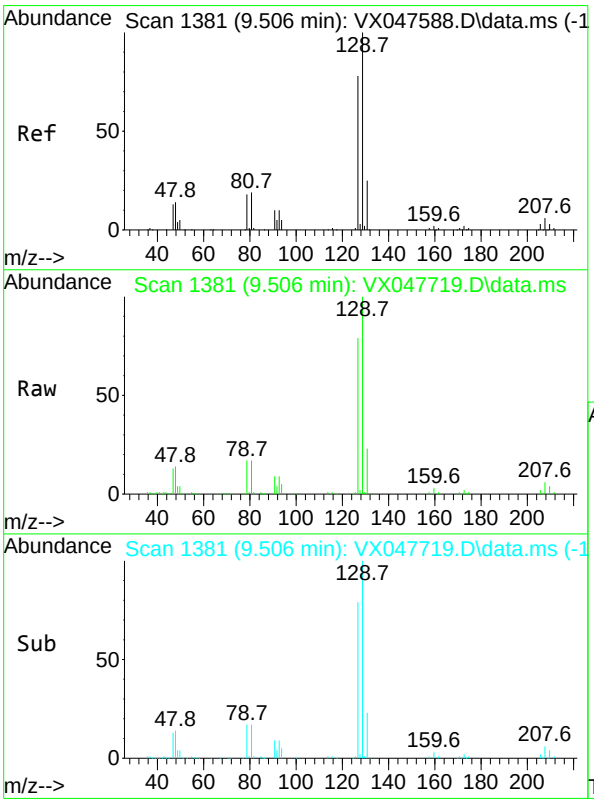
Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

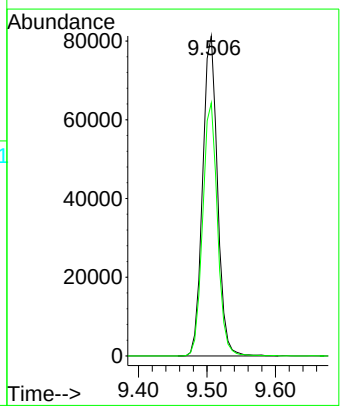
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

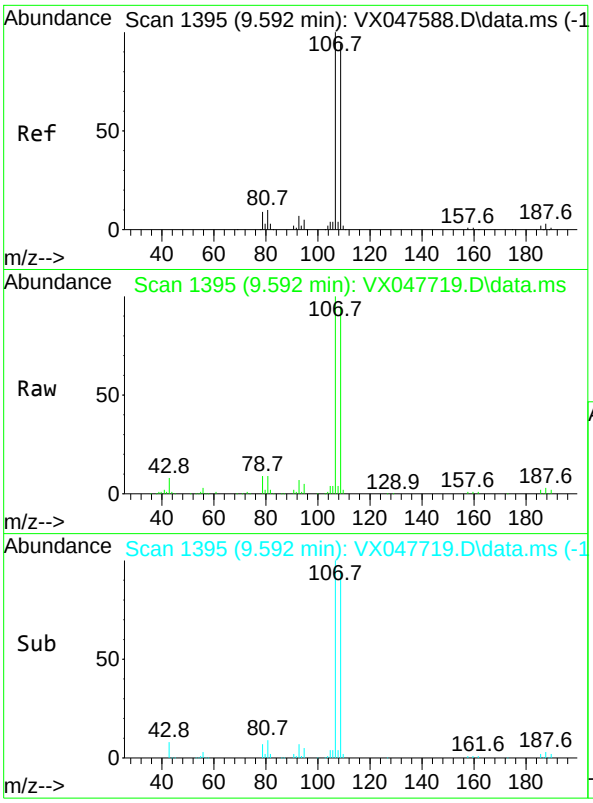


#60
Dibromochloromethane
Concen: 56.997 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:129 Resp: 123071

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.4	115.2

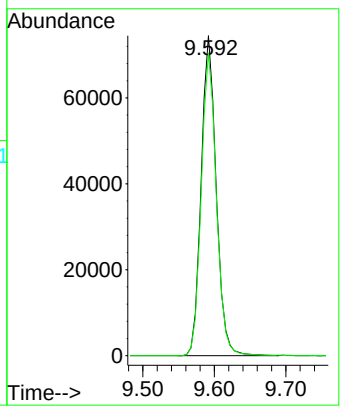




#61
1,2-Dibromoethane
Concen: 56.870 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:107 Resp: 10854

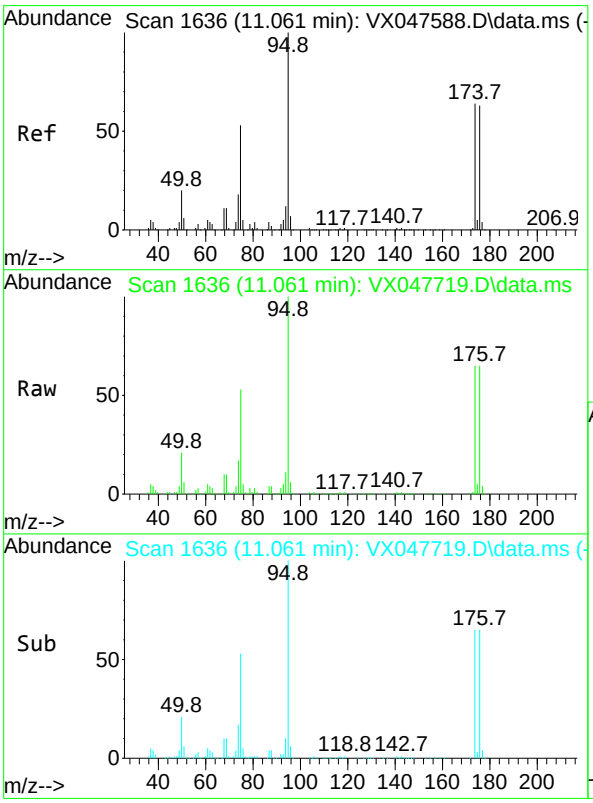
Ion	Ratio	Lower	Upper
107	100		
109	95.2	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

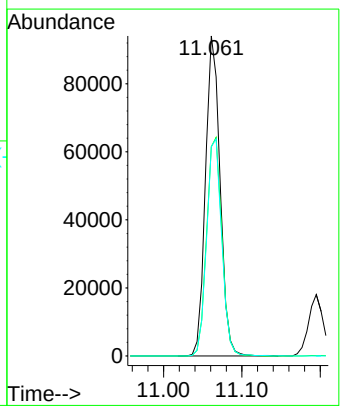
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

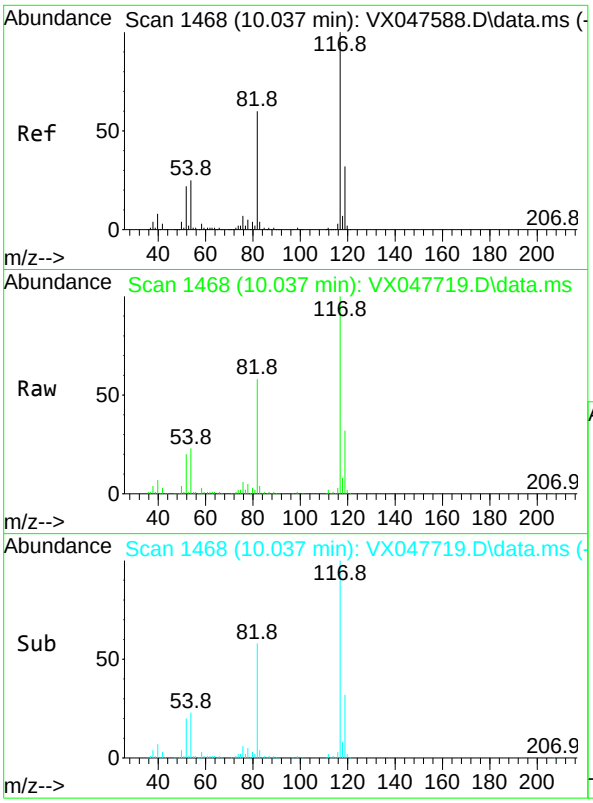


#62
4-Bromofluorobenzene
Concen: 52.073 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 95 Resp: 121543

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	141.6
176	70.0	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

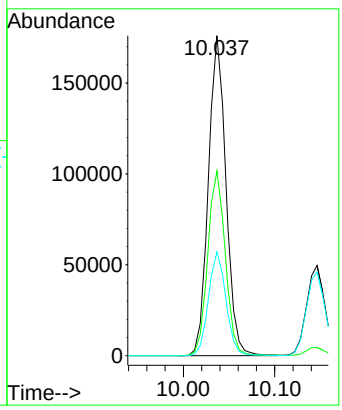
Tgt Ion:117 Resp: 23570

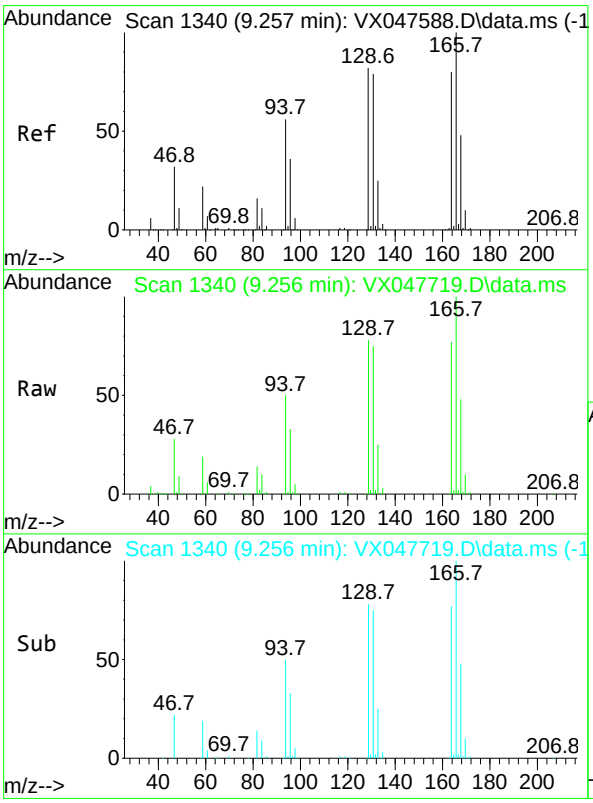
Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	32.4	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

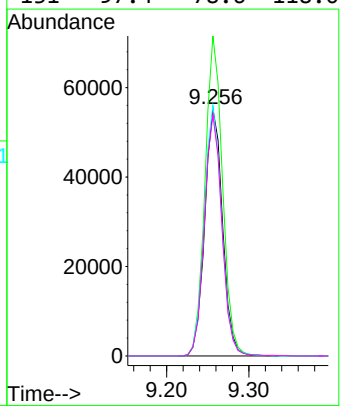


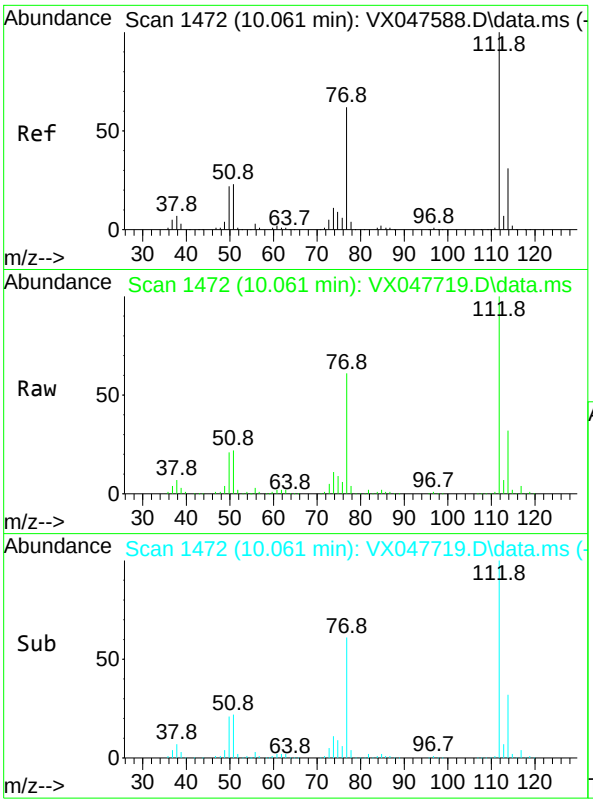


#64
Tetrachloroethene
Concen: 54.167 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:164 Resp: 83230

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.2	150.2
129	101.4	81.8	122.6
131	97.4	78.6	118.0

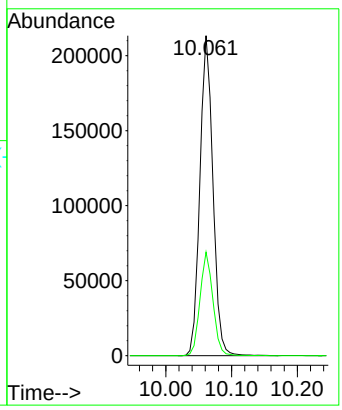




#65
Chlorobenzene
Concen: 54.848 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:112 Resp: 29369

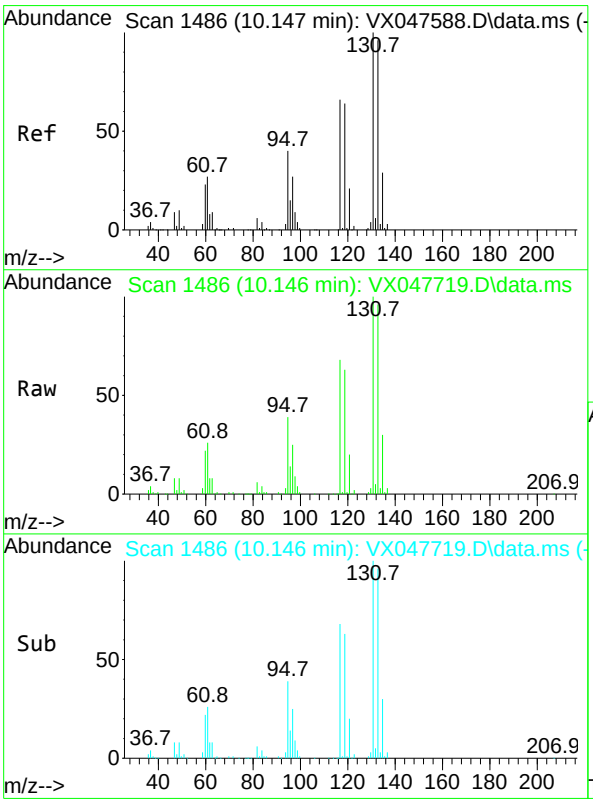
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

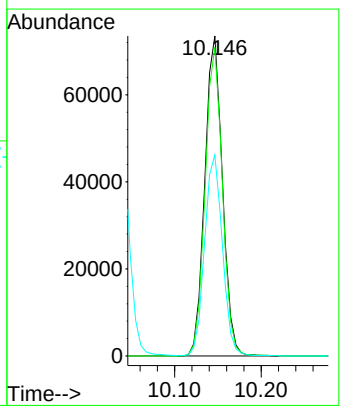
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

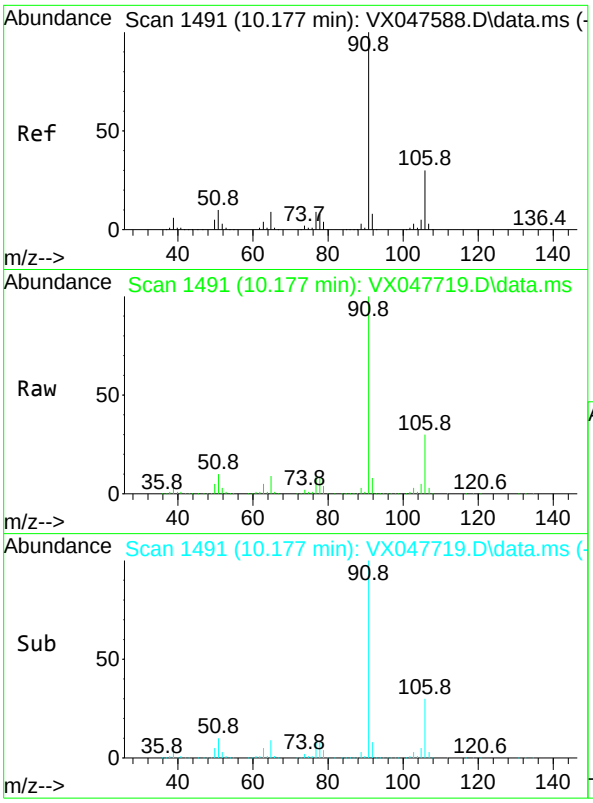


#66
1,1,1,2-Tetrachloroethane
Concen: 56.149 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:131 Resp: 103750

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	63.7	32.0	96.0

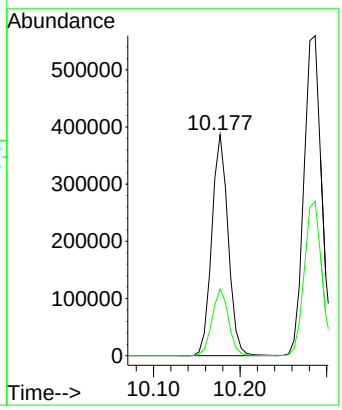




#67
Ethyl Benzene
Concen: 54.859 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 50685

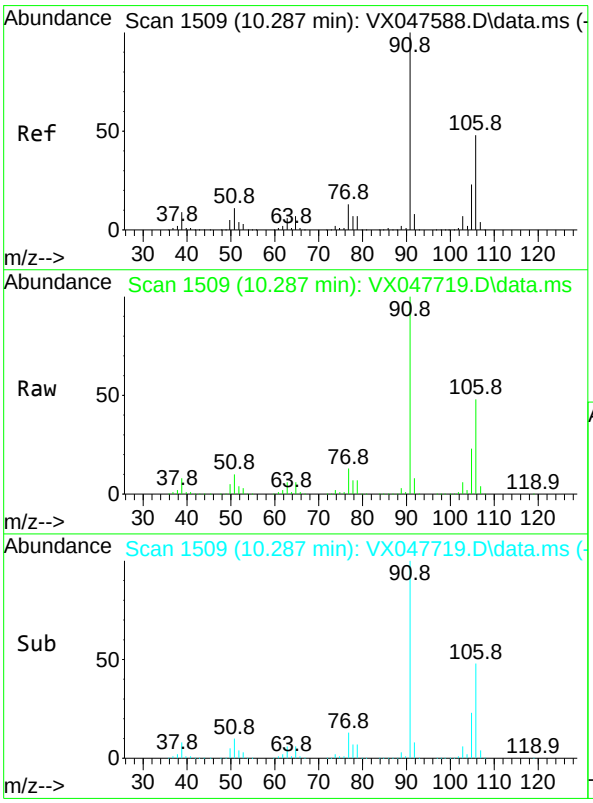
Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

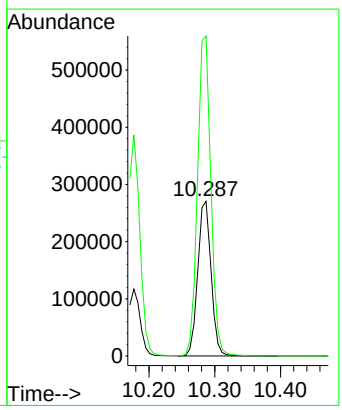
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

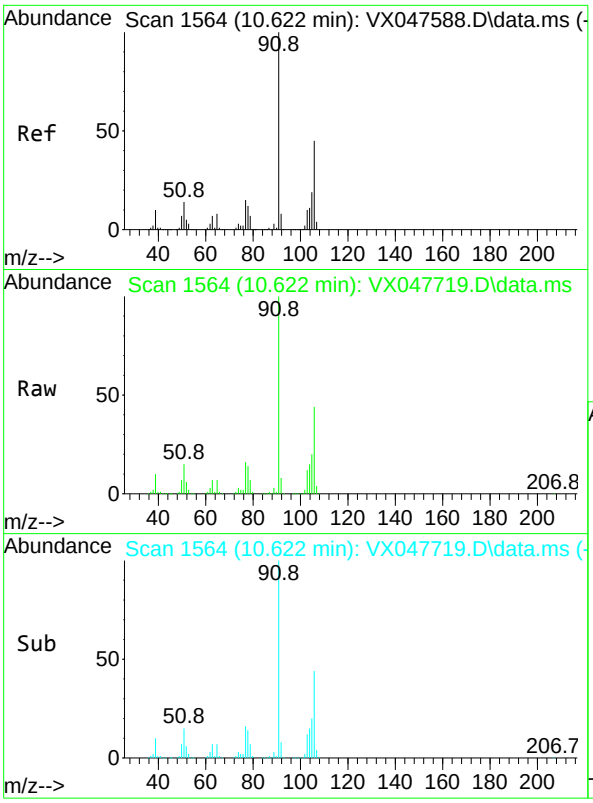


#68
m/p-Xylenes
Concen: 110.636 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:106 Resp: 380464

Ion	Ratio	Lower	Upper
106	100		
91	208.3	167.8	251.8

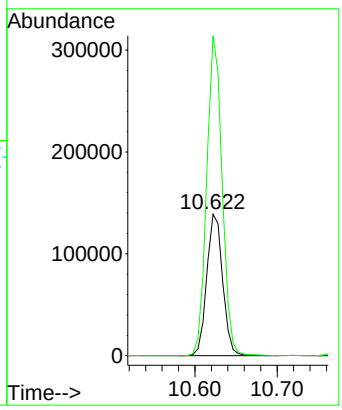




#69
o-Xylene
Concen: 55.967 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:106 Resp: 18615

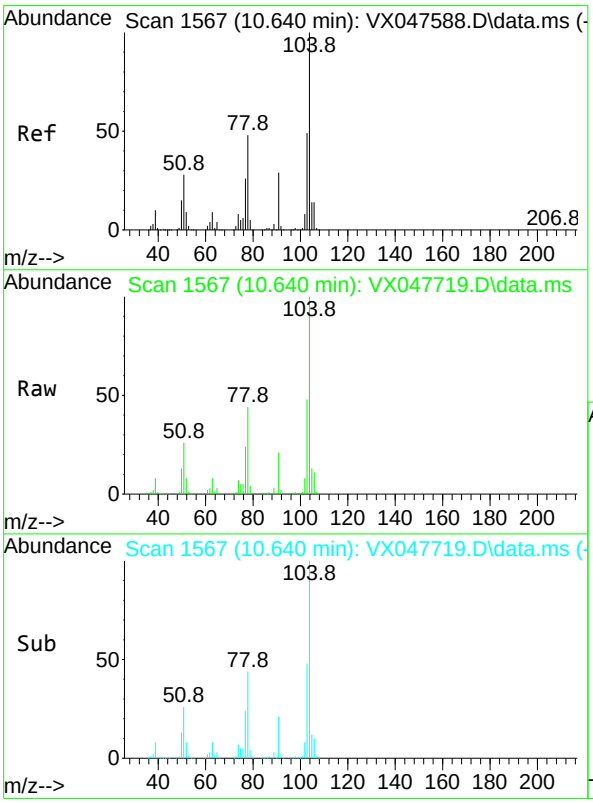
Ion	Ratio	Lower	Upper
106	100		
91	220.1	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

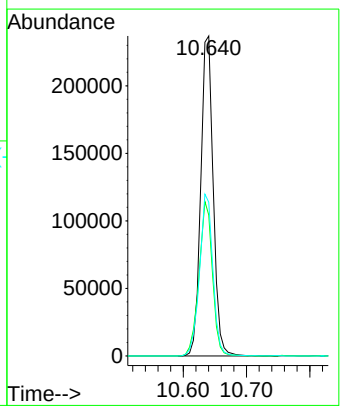
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

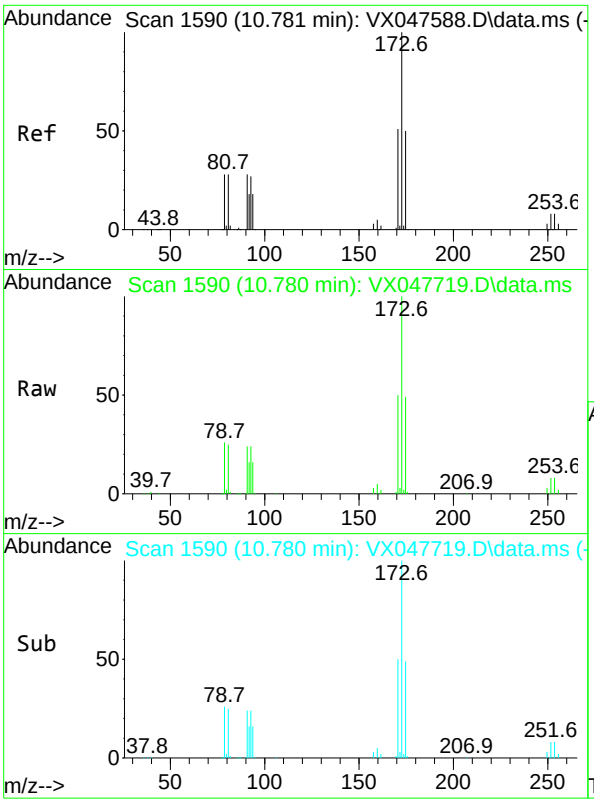


#70
Styrene
Concen: 55.888 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:104 Resp: 325724

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	54.2	43.1	64.7

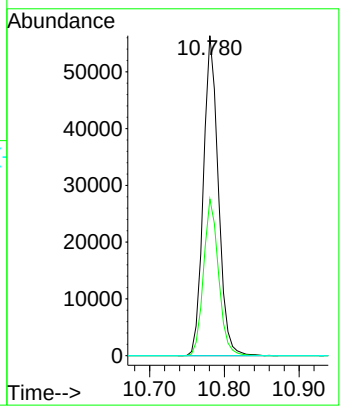




#71
Bromoform
Concen: 56.699 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:173 Resp: 7822

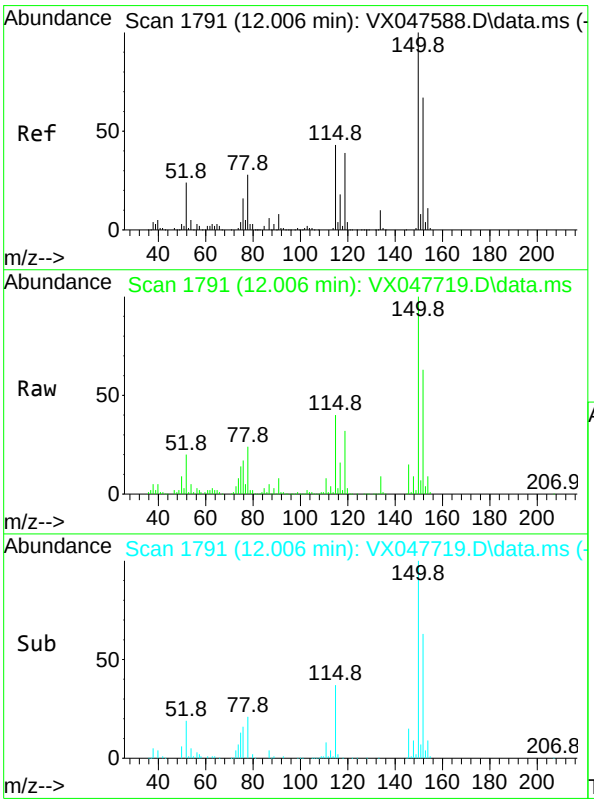
Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

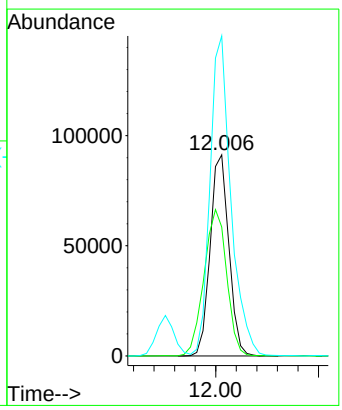
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

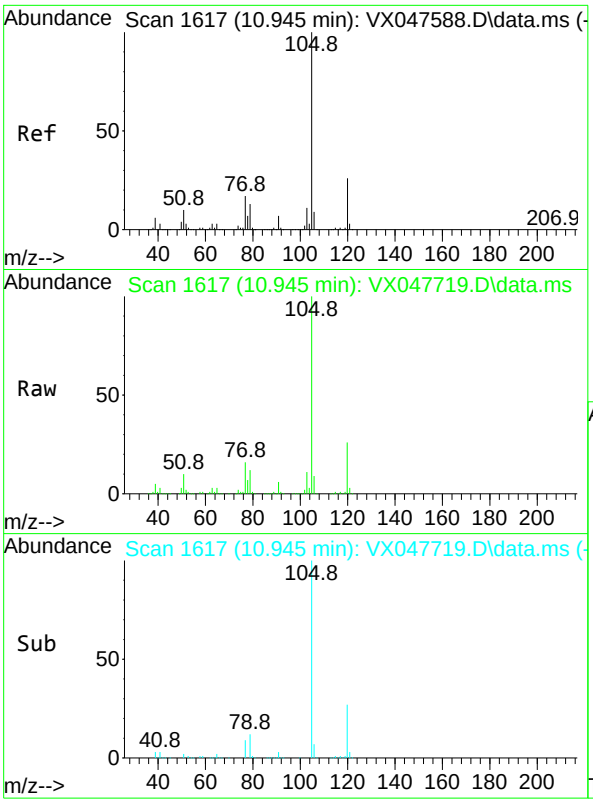


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:152 Resp: 115061

Ion	Ratio	Lower	Upper
152	100		
115	88.5	44.9	134.5
150	177.7	0.0	352.0

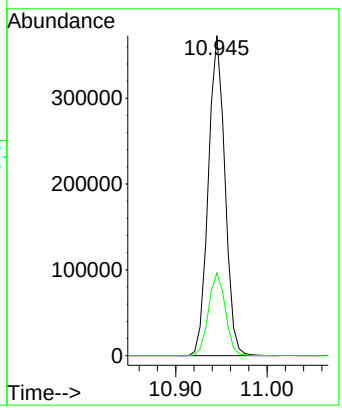




#73
Isopropylbenzene
Concen: 53.558 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 46850

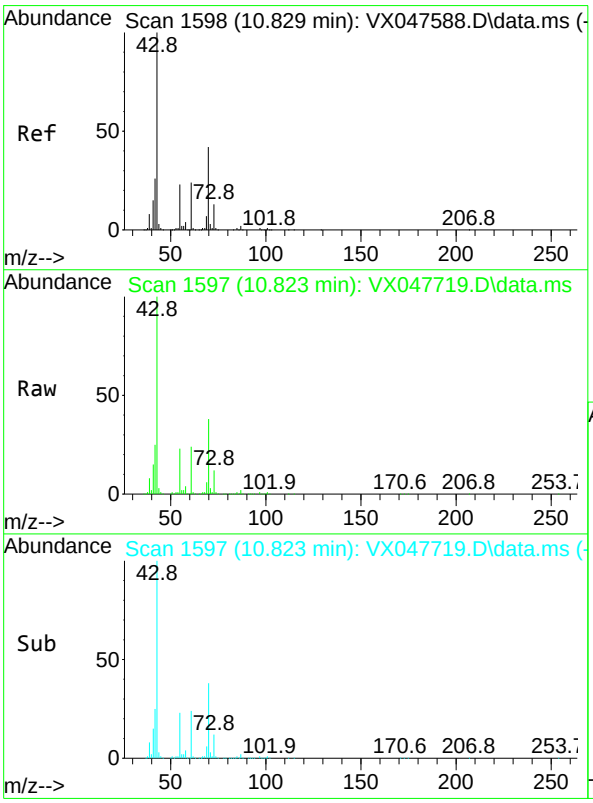
Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

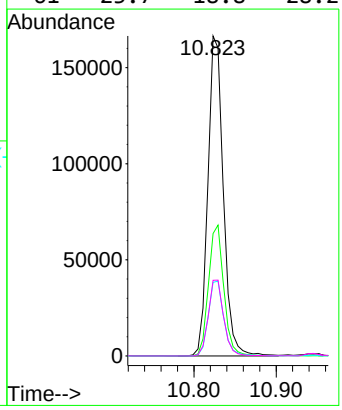
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

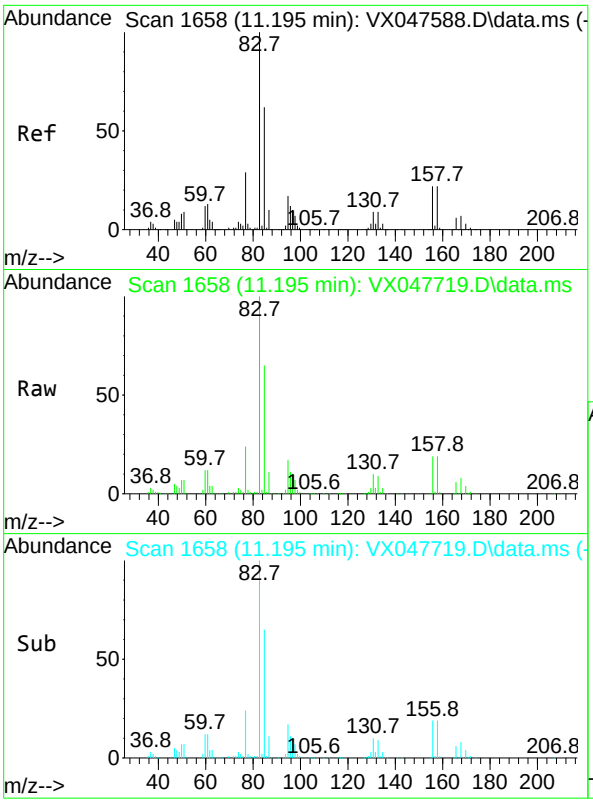


#74
N-amyl acetate
Concen: 54.388 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 216957

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.6	18.9	28.3
61	23.7	18.8	28.2

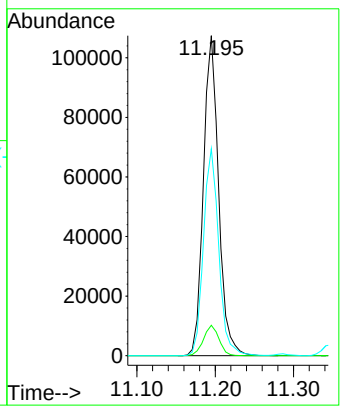




#75
1,1,2,2-Tetrachloroethane
Concen: 54.463 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 14414

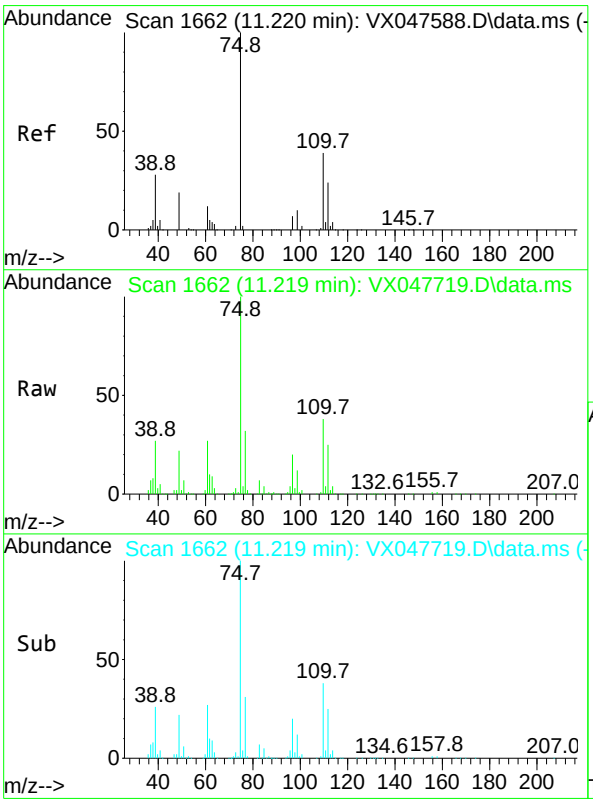
Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	65.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

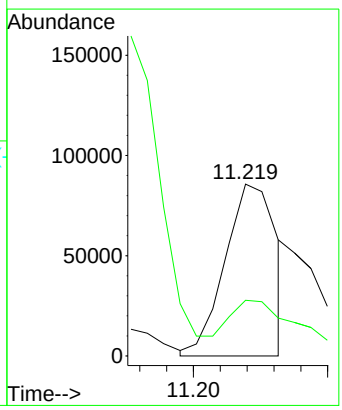
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

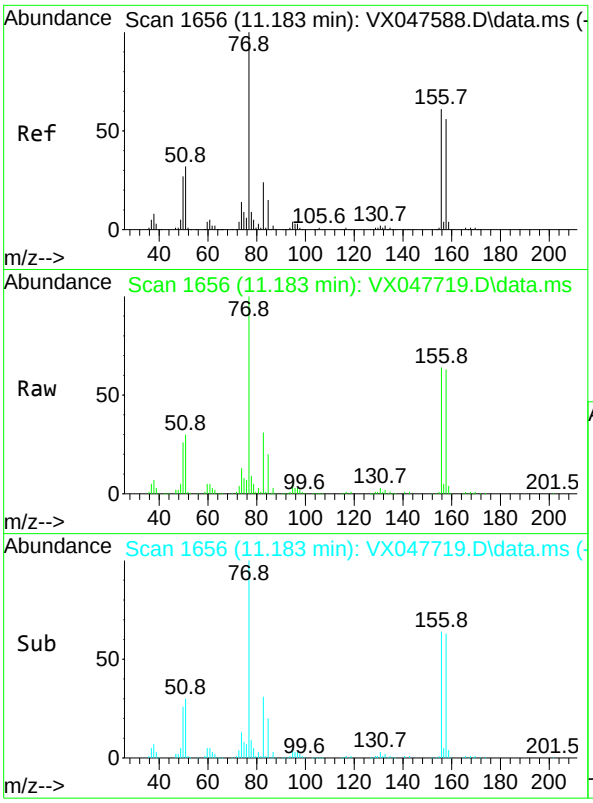


#76
1,2,3-Trichloropropane
Concen: 48.886 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 113886

Ion	Ratio	Lower	Upper
75	100		
77	43.5	18.8	56.4

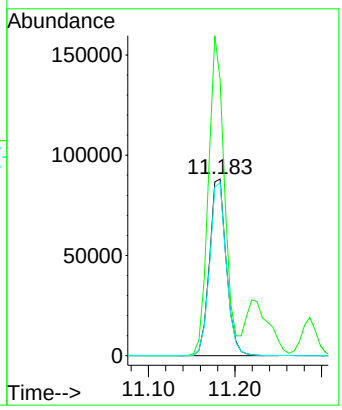




#77
Bromobenzene
Concen: 54.994 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:156 Resp: 11848

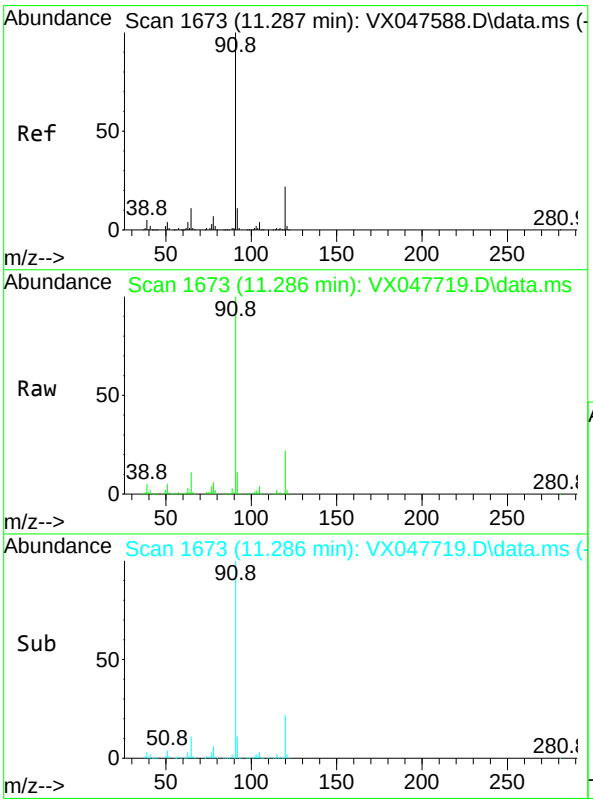
Ion	Ratio	Lower	Upper
156	100		
77	171.8	89.7	269.1
158	97.5	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

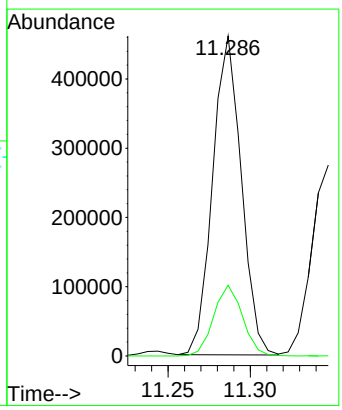
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

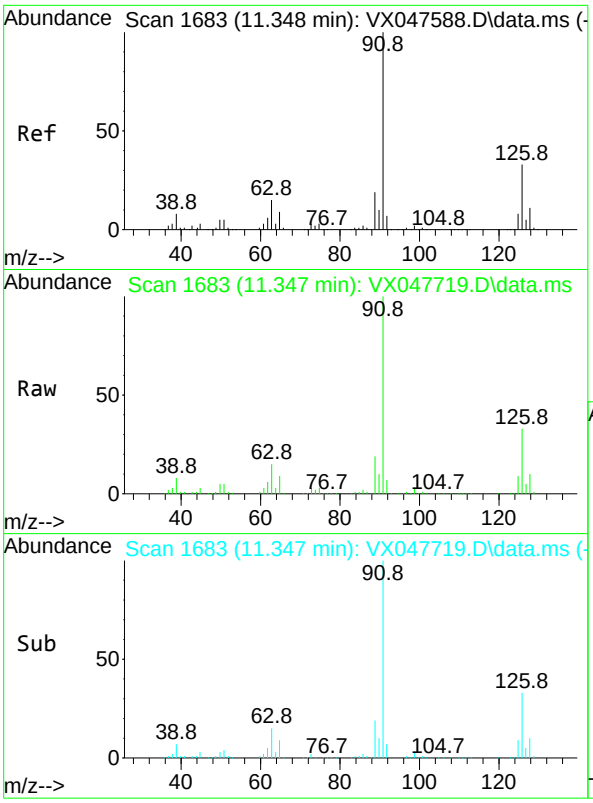


#78
n-propylbenzene
Concen: 53.923 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 557613

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1





#79
2-Chlorotoluene
Concen: 53.352 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

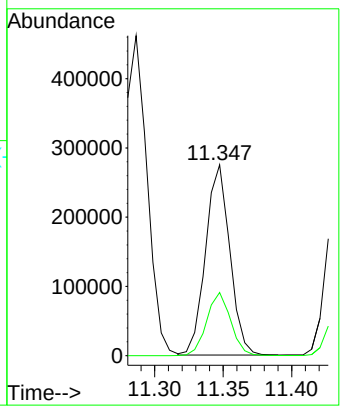
Tgt Ion: 91 Resp: 33790

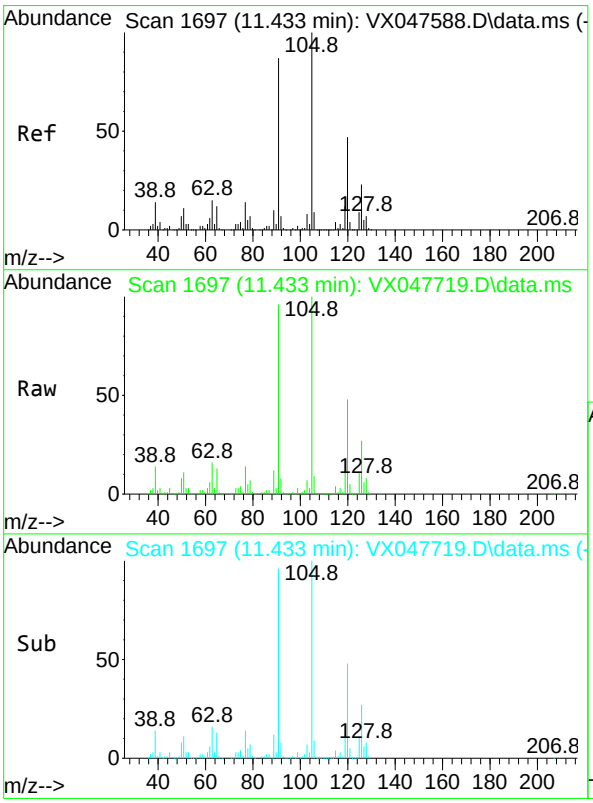
Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

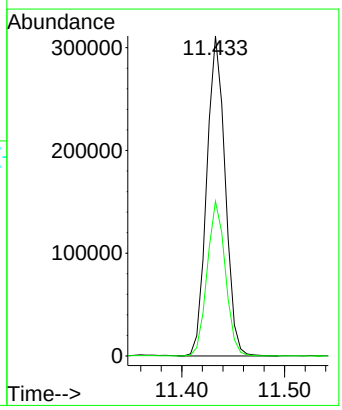


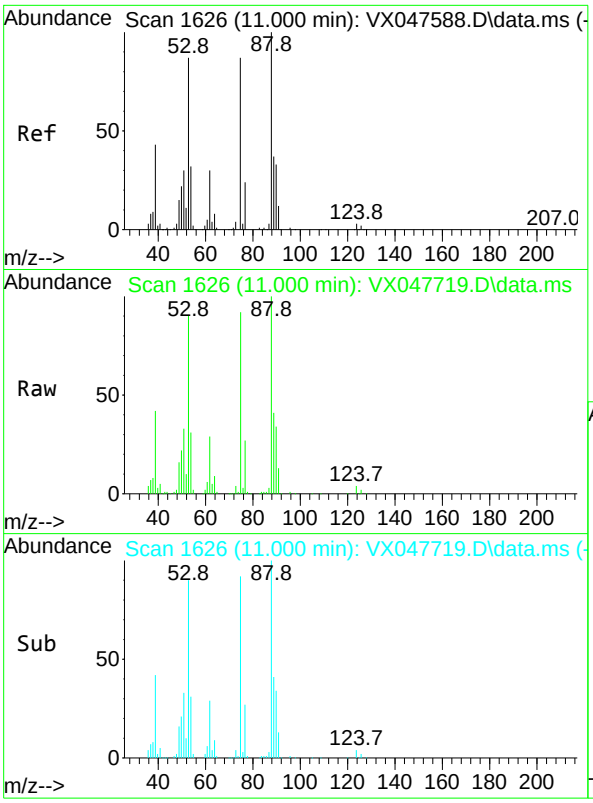


#80
1,3,5-Trimethylbenzene
Concen: 53.867 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 387138

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.6	70.8

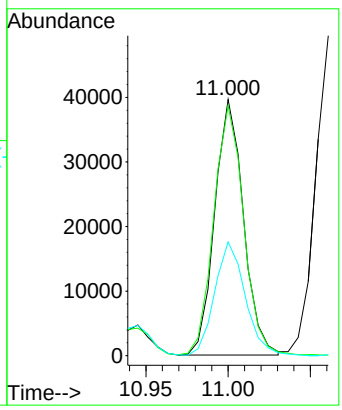




#81
trans-1,4-Dichloro-2-butene
Concen: 52.569 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 4802

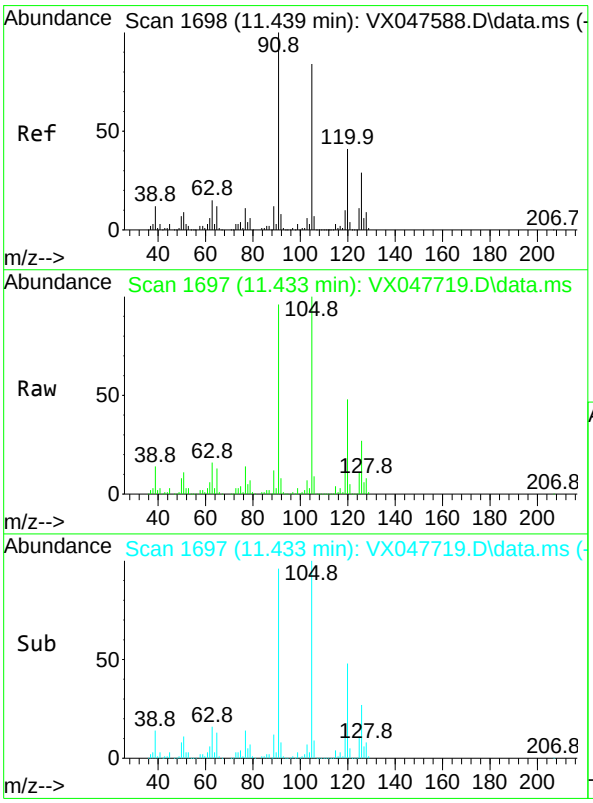
Ion	Ratio	Lower	Upper
75	100		
53	101.5	83.4	125.2
89	47.5	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

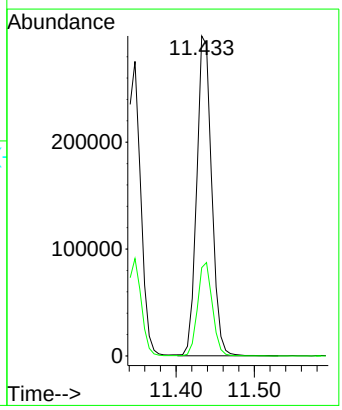
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

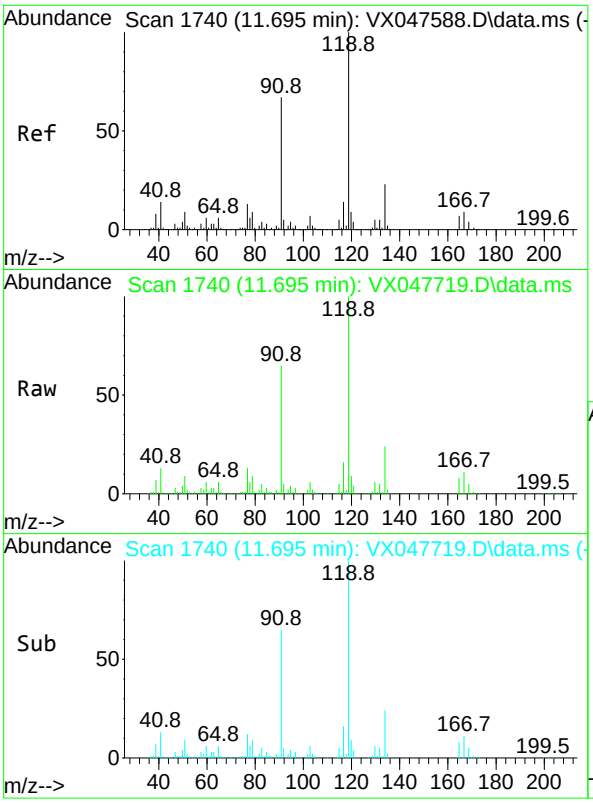


#82
4-Chlorotoluene
Concen: 53.035 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 396717

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6

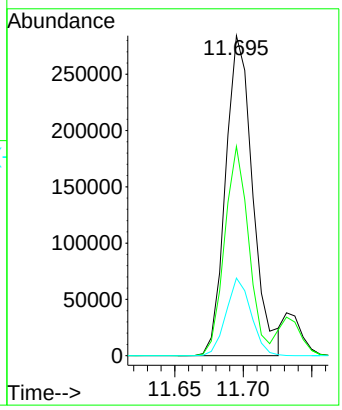




#83
tert-Butylbenzene
Concen: 53.095 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:119 Resp: 39063

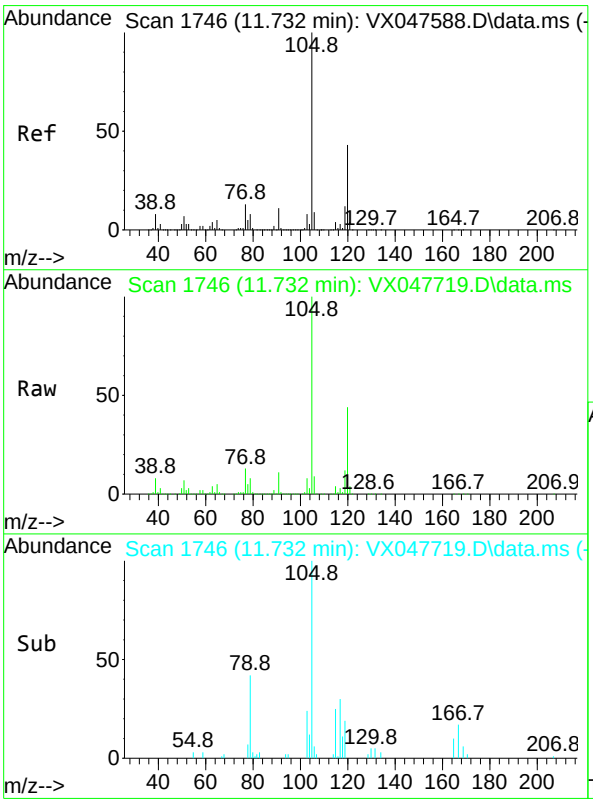
Ion	Ratio	Lower	Upper
119	100		
91	58.5	29.6	88.8
134	22.4	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

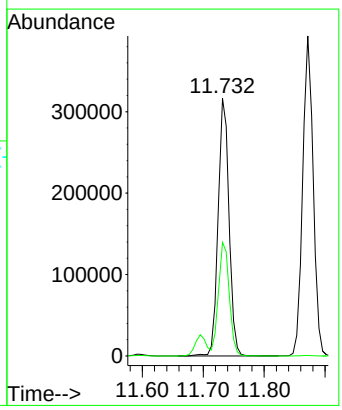
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

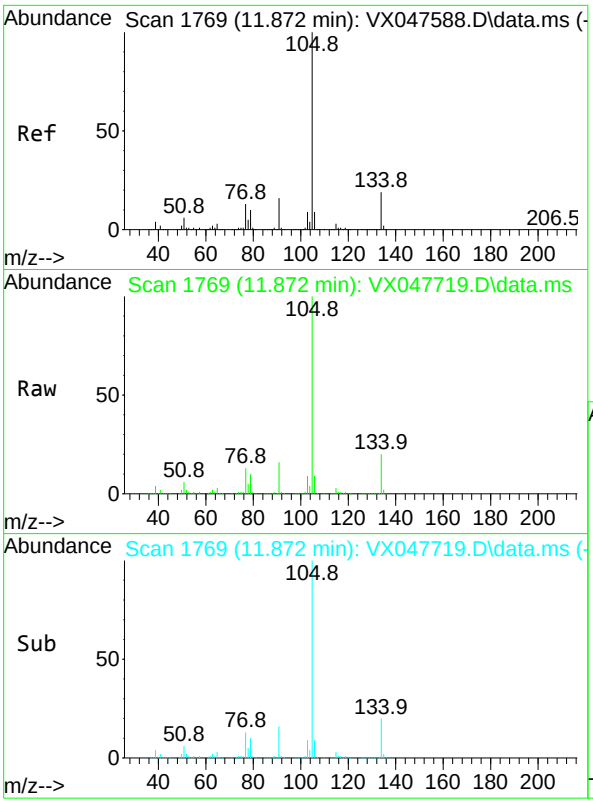


#84
1,2,4-Trimethylbenzene
Concen: 54.142 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 394502

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

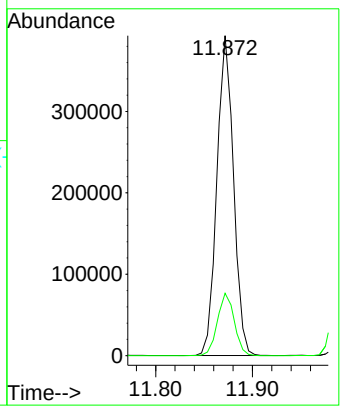




#85
sec-Butylbenzene
Concen: 53.598 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 46838

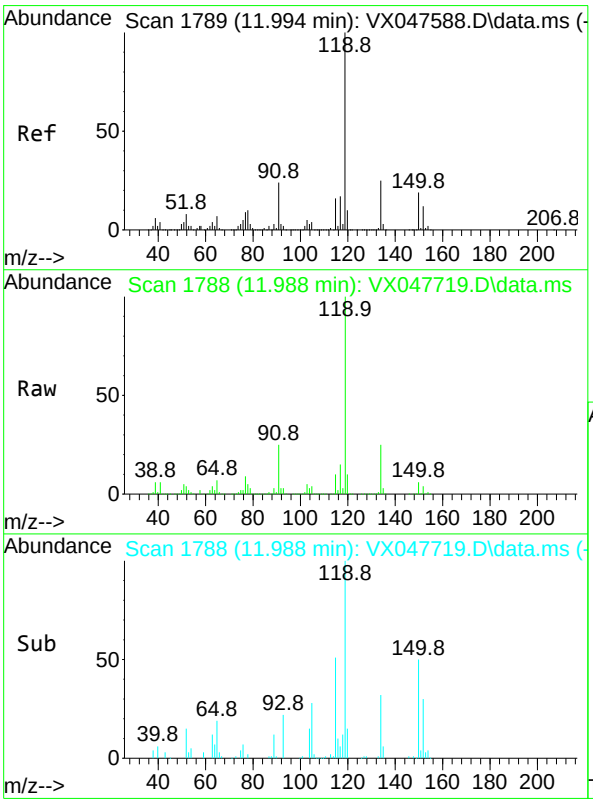
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

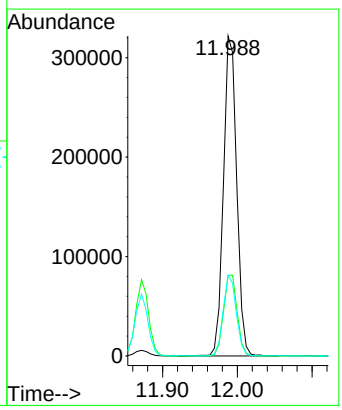
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

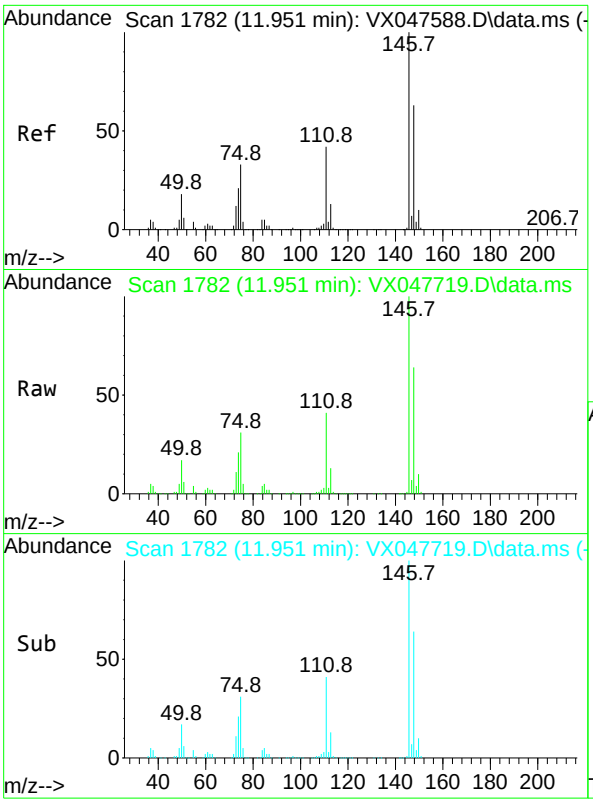


#86
p-Isopropyltoluene
Concen: 53.461 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:119 Resp: 395524

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	24.8	12.6	37.6

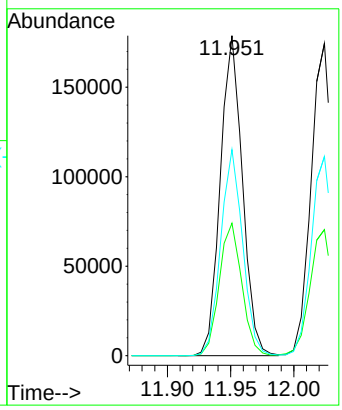




#87
1,3-Dichlorobenzene
Concen: 54.263 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:146 Resp: 21715

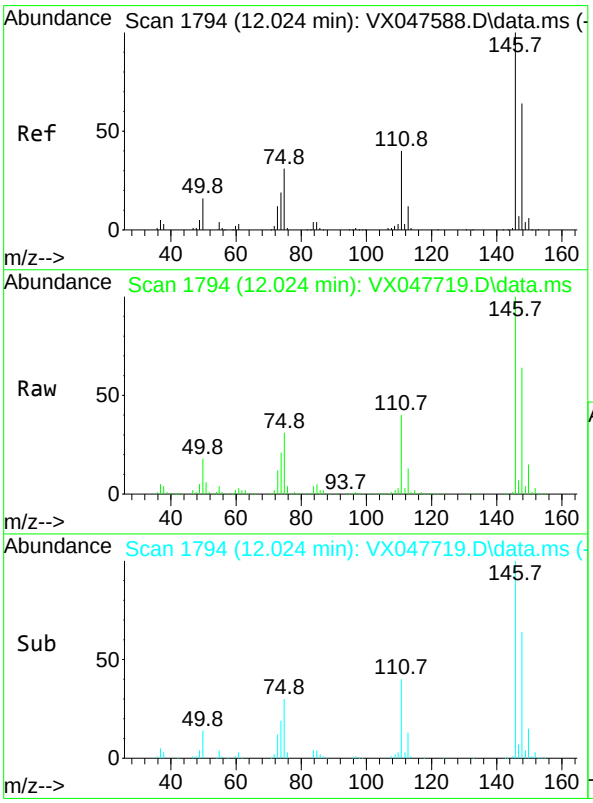
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	64.0	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

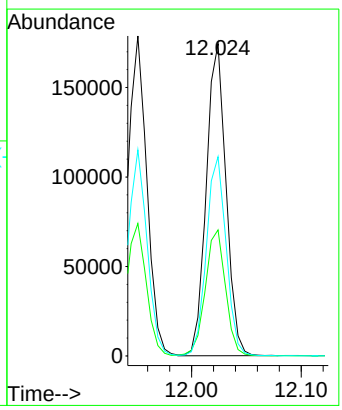
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

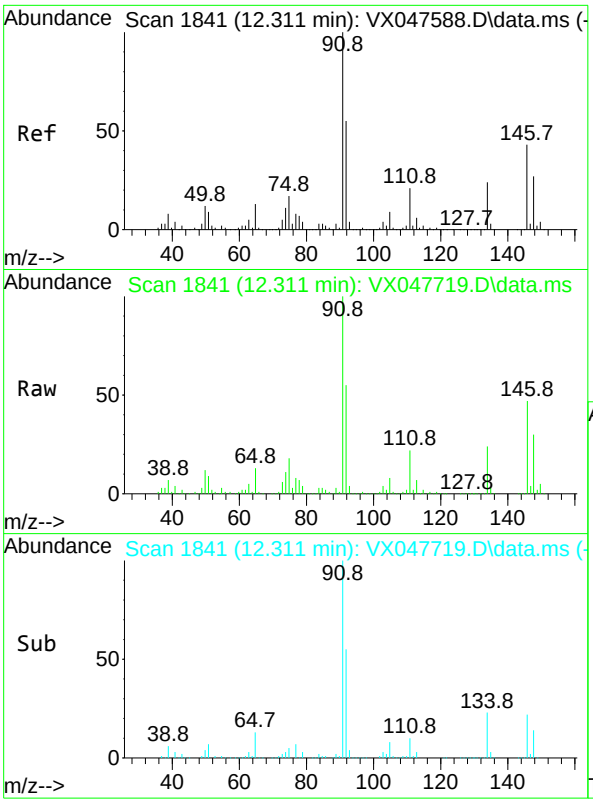


#88
1,4-Dichlorobenzene
Concen: 53.031 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:146 Resp: 217807

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.4
148	64.0	31.7	95.1

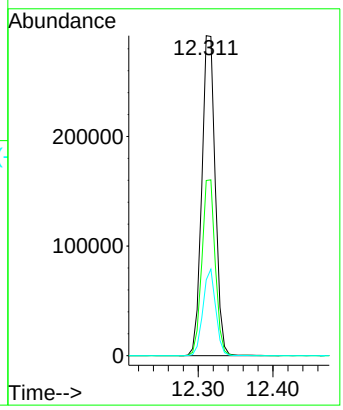




#89
n-Butylbenzene
Concen: 53.292 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 36481

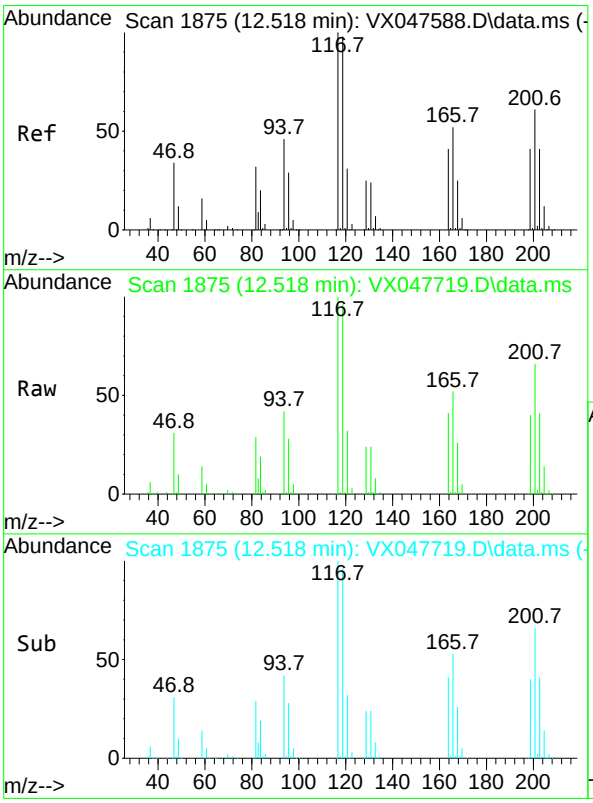
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.7	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

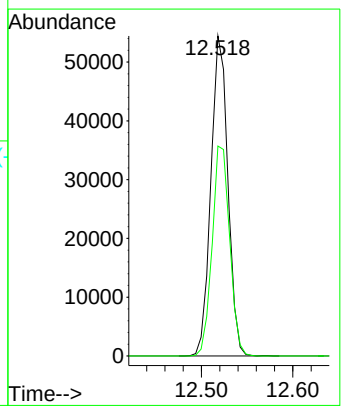
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

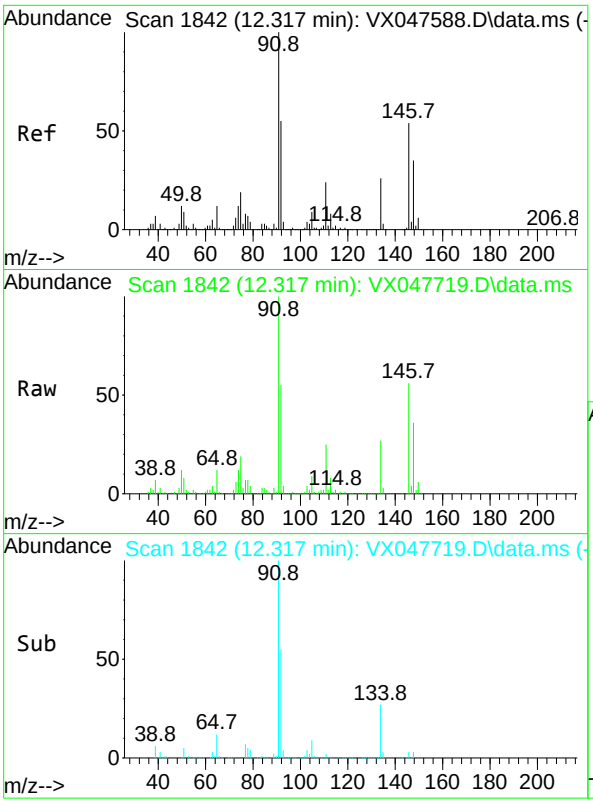


#90
Hexachloroethane
Concen: 53.956 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 70085

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5

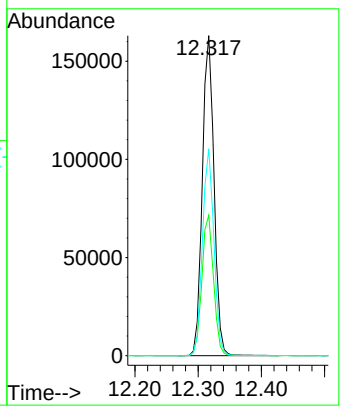




#91
1,2-Dichlorobenzene
Concen: 55.091 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:146 Resp: 21003

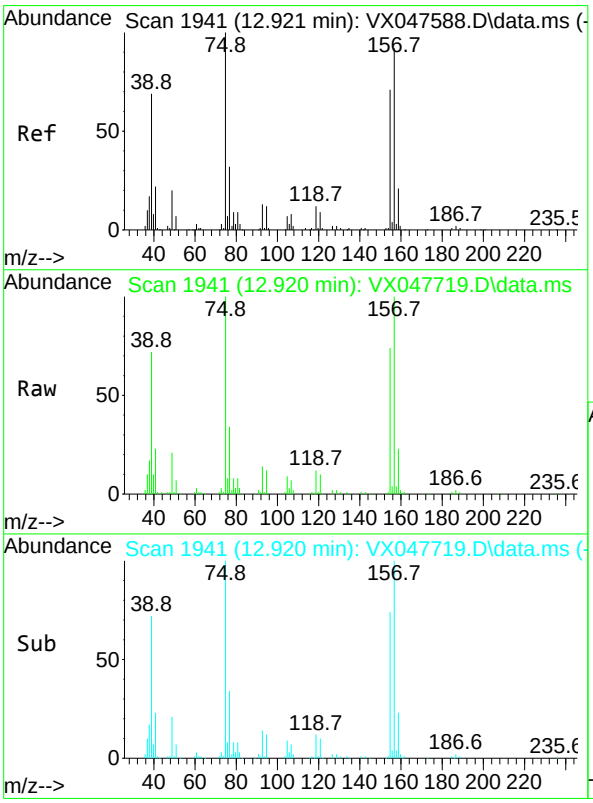
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

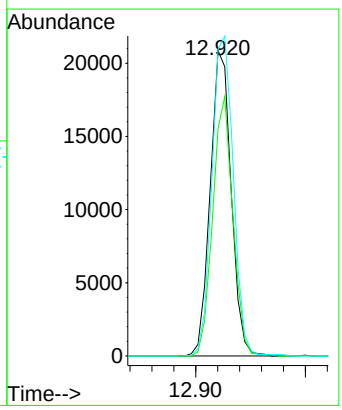
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

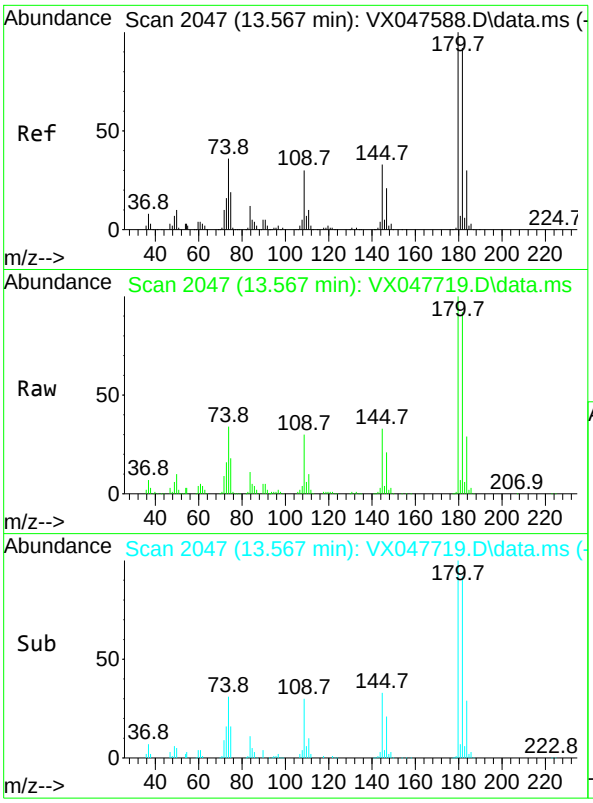


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.656 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 27679

Ion	Ratio	Lower	Upper
75	100		
155	81.6	37.7	113.1
157	107.5	49.8	149.4

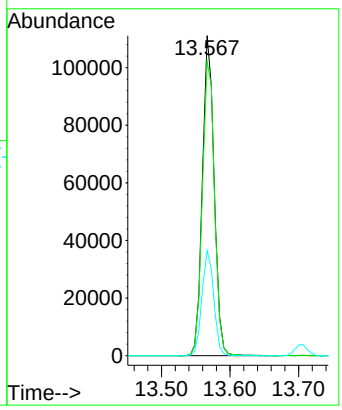




#93
1,2,4-Trichlorobenzene
Concen: 53.421 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:180 Resp: 13236

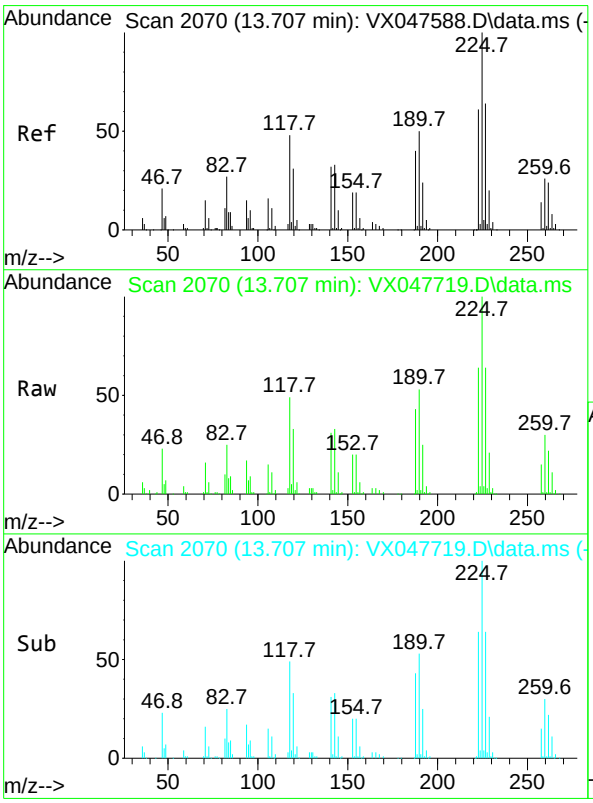
Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.1	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

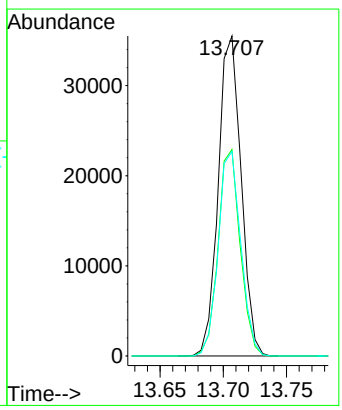
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

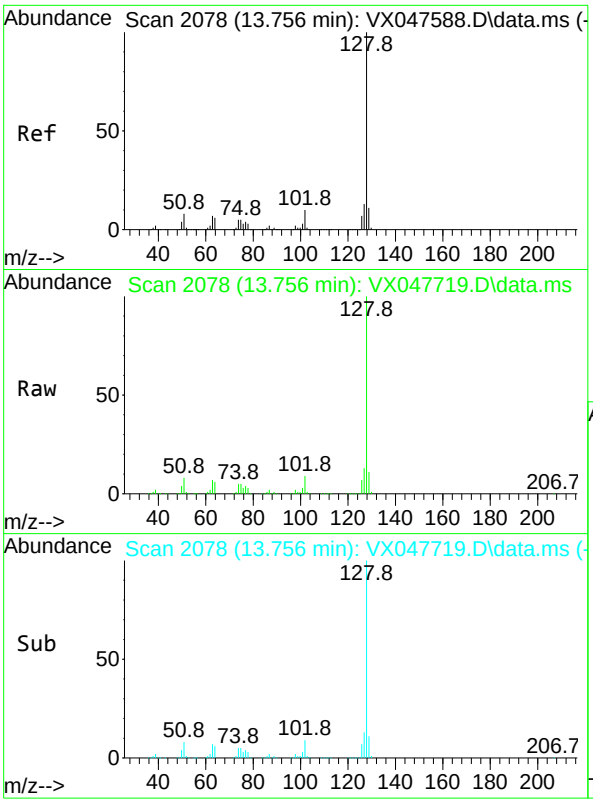


#94
Hexachlorobutadiene
Concen: 52.946 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:225 Resp: 44561

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.7	95.1
227	63.2	32.0	96.0

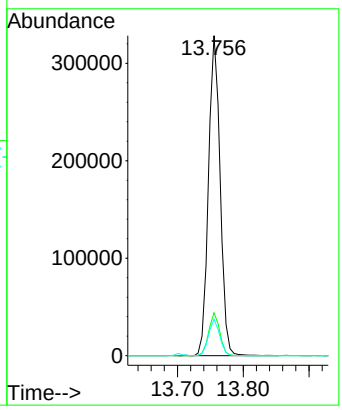




#95
Naphthalene
Concen: 53.744 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:128 Resp: 40550

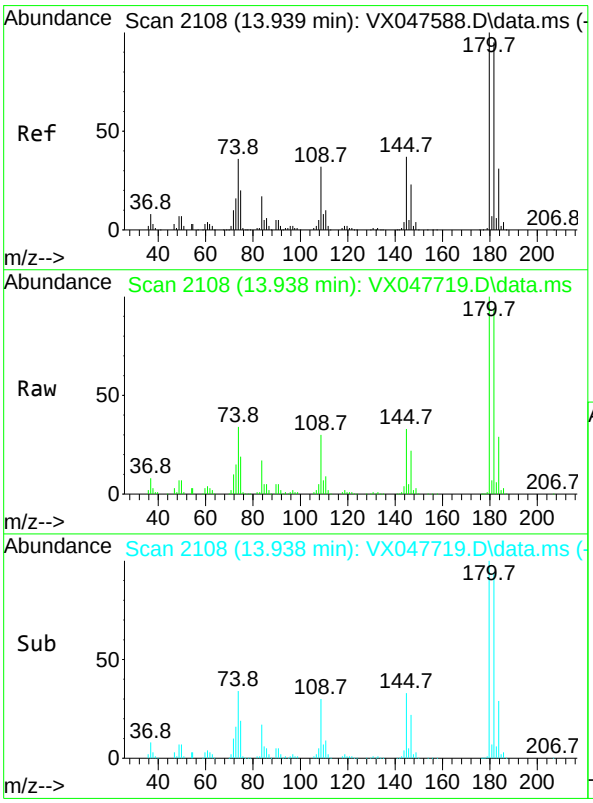
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

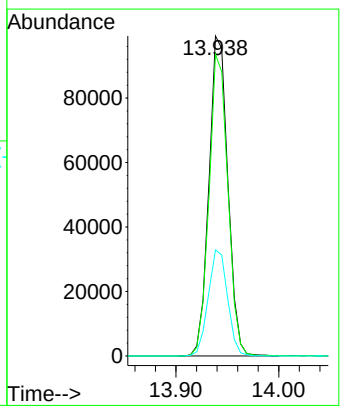
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 55.060 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:180 Resp: 126908

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.6	142.8
145	33.8	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	84	-0.01
2	T	Dichlorodifluoromethane	0.518	0.656	-26.6#	110	0.00
3	P	Chloromethane	0.680	0.808	-18.8	103	0.00
4	C	Vinyl Chloride	0.666	0.805	-20.9#	102	0.00
5	T	Bromomethane	0.422	0.530	-25.6#	105	0.00
6	T	Chloroethane	0.445	0.514	-15.5	98	0.00
7	T	Trichlorofluoromethane	0.989	1.104	-11.6	93	0.00
8	T	Diethyl Ether	0.405	0.463	-14.3	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.650	-12.5	94	0.00
10	T	Methyl Iodide	0.902	1.047	-16.1	97	0.00
11	T	Tert butyl alcohol	0.089	0.087	2.2	82	0.00
12	CM	1,1-Dichloroethene	0.594	0.677	-14.0#	94	0.00
13	T	Acrolein	0.082	0.092	-12.2	95	0.00
14	T	Allyl chloride	1.226	1.342	-9.5	93	0.00
15	T	Acrylonitrile	0.328	0.378	-15.2	91	0.00
16	T	Acetone	0.346	0.388	-12.1	103	0.00
17	T	Carbon Disulfide	1.626	1.899	-16.8	102	0.00
18	T	Methyl Acetate	0.770	0.873	-13.4	84	0.00
19	T	Methyl tert-butyl Ether	2.169	2.452	-13.0	92	0.00
20	T	Methylene Chloride	0.732	0.832	-13.7	96	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.741	-15.8	96	0.00
22	T	Diisopropyl ether	2.376	2.700	-13.6	92	0.00
23	T	Vinyl Acetate	1.901	2.204	-15.9	93	0.00
24	P	1,1-Dichloroethane	1.263	1.428	-13.1	93	0.00
25	T	2-Butanone	0.432	0.477	-10.4	91	0.00
26	T	2,2-Dichloropropane	1.050	1.149	-9.4	90	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.903	-15.3	94	-0.01
28	T	Bromochloromethane	0.551	0.612	-11.1	89	-0.01
29	T	Tetrahydrofuran	0.260	0.285	-9.6	87	0.00
30	C	Chloroform	1.276	1.444	-13.2#	92	0.00
31	T	Cyclohexane	1.052	1.142	-8.6	93	0.00
32	T	1,1,1-Trichloroethane	1.082	1.211	-11.9	90	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.816	-2.5	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
35	S	Dibromofluoromethane	0.335	0.352	-5.1	92	0.00
36	T	1,1-Dichloropropene	0.490	0.516	-5.3	91	0.00
37	T	Ethyl Acetate	0.525	0.559	-6.5	91	0.00
38	T	Carbon Tetrachloride	0.532	0.561	-5.5	90	0.00
39	T	Methylcyclohexane	0.556	0.599	-7.7	91	0.00
40	TM	Benzene	1.488	1.647	-10.7	93	0.00
41	T	Methacrylonitrile	0.271	0.298	-10.0	90	0.00
42	TM	1,2-Dichloroethane	0.566	0.606	-7.1	90	0.00
43	T	Isopropyl Acetate	0.860	0.931	-8.3	90	0.00
44	TM	Trichloroethene	0.360	0.403	-11.9	94	0.00
45	C	1,2-Dichloropropane	0.381	0.426	-11.8#	92	0.00
46	T	Dibromomethane	0.277	0.307	-10.8	92	0.00
47	T	Bromodichloromethane	0.572	0.634	-10.8	90	0.00
48	T	Methyl methacrylate	0.429	0.458	-6.8	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	0.004	0.005	-25.0	98	0.00
50	S	Toluene-d8	1.160	1.200	-3.4	90	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.525	-10.1	89	0.00
52	CM	Toluene	0.917	1.016	-10.8#	93	0.00
53	T	t-1,3-Dichloropropene	0.584	0.658	-12.7	92	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.704	-12.8	93	0.00
55	T	1,1,2-Trichloroethane	0.354	0.392	-10.7	92	0.00
56	T	Ethyl methacrylate	0.555	0.630	-13.5	91	0.00
57	T	1,3-Dichloropropane	0.607	0.689	-13.5	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.294	-29.5#	93	0.00
59	T	2-Hexanone	0.343	0.374	-9.0	90	0.00
60	T	Dibromochloromethane	0.407	0.464	-14.0	92	0.00
61	T	1,2-Dibromoethane	0.360	0.410	-13.9	93	0.00
62	S	4-Bromofluorobenzene	0.440	0.459	-4.3	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64	T	Tetrachloroethene	0.326	0.353	-8.3	94	0.00
65	PM	Chlorobenzene	1.136	1.246	-9.7	92	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.440	-12.2	93	0.00
67	C	Ethyl Benzene	1.960	2.150	-9.7#	92	0.00
68	T	m/p-Xylenes	0.729	0.807	-10.7	92	0.00
69	T	o-Xylene	0.706	0.790	-11.9	92	0.00
70	T	Styrene	1.236	1.382	-11.8	93	0.00
71	P	Bromoform	0.293	0.332	-13.3	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73	T	Isopropylbenzene	3.801	4.072	-7.1	91	0.00
74	T	N-amyl acetate	1.733	1.886	-8.8	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.253	-9.0	92	0.00
76	T	1,2,3-Trichloropropane	1.012	0.990	2.2	79	0.00
77	T	Bromobenzene	0.936	1.030	-10.0	94	0.00
78	T	n-propylbenzene	4.494	4.846	-7.8	91	0.00
79	T	2-Chlorotoluene	2.752	2.937	-6.7	91	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.365	-7.7	91	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.417	-5.0	91	0.00
82	T	4-Chlorotoluene	3.251	3.448	-6.1	90	0.00
83	T	tert-Butylbenzene	3.197	3.395	-6.2	91	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.429	-8.3	92	0.00
85	T	sec-Butylbenzene	3.797	4.071	-7.2	91	0.00
86	T	p-Isopropyltoluene	3.215	3.438	-6.9	91	0.00
87	T	1,3-Dichlorobenzene	1.739	1.887	-8.5	94	0.00
88	T	1,4-Dichlorobenzene	1.785	1.893	-6.1	93	0.00
89	T	n-Butylbenzene	2.975	3.171	-6.6	91	0.00
90	T	Hexachloroethane	0.564	0.609	-8.0	92	0.00
91	T	1,2-Dichlorobenzene	1.657	1.825	-10.1	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.241	-3.4	85	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.150	-6.8	90	0.00
94	T	Hexachlorobutadiene	0.366	0.387	-5.7	91	0.00
95	T	Naphthalene	3.279	3.524	-7.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	1.103	-10.1	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	84	-0.01
2	T	Dichlorodifluoromethane	50.000	63.389	-26.8#	110	0.00
3	P	Chloromethane	50.000	59.371	-18.7	103	0.00
4	C	Vinyl Chloride	50.000	60.422	-20.8#	102	0.00
5	T	Bromomethane	50.000	62.771	-25.5#	105	0.00
6	T	Chloroethane	50.000	57.762	-15.5	98	0.00
7	T	Trichlorofluoromethane	50.000	55.813	-11.6	93	0.00
8	T	Diethyl Ether	50.000	57.259	-14.5	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	56.200	-12.4	94	0.00
10	T	Methyl Iodide	50.000	58.055	-16.1	97	0.00
11	T	Tert butyl alcohol	250.000	244.621	2.2	82	0.00
12	CM	1,1-Dichloroethene	50.000	57.012	-14.0#	94	0.00
13	T	Acrolein	250.000	282.952	-13.2	95	0.00
14	T	Allyl chloride	50.000	54.723	-9.4	93	0.00
15	T	Acrylonitrile	250.000	287.505	-15.0	91	0.00
16	T	Acetone	250.000	280.166	-12.1	103	0.00
17	T	Carbon Disulfide	50.000	58.393	-16.8	102	0.00
18	T	Methyl Acetate	50.000	56.673	-13.3	84	0.00
19	T	Methyl tert-butyl Ether	50.000	56.537	-13.1	92	0.00
20	T	Methylene Chloride	50.000	56.815	-13.6	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	57.928	-15.9	96	0.00
22	T	Diisopropyl ether	50.000	56.829	-13.7	92	0.00
23	T	Vinyl Acetate	250.000	289.816	-15.9	93	0.00
24	P	1,1-Dichloroethane	50.000	56.537	-13.1	93	0.00
25	T	2-Butanone	250.000	276.163	-10.5	91	0.00
26	T	2,2-Dichloropropane	50.000	54.744	-9.5	90	0.00
27	T	cis-1,2-Dichloroethene	50.000	57.629	-15.3	94	-0.01
28	T	Bromochloromethane	50.000	55.520	-11.0	89	-0.01
29	T	Tetrahydrofuran	250.000	274.666	-9.9	87	0.00
30	C	Chloroform	50.000	56.566	-13.1#	92	0.00
31	T	Cyclohexane	50.000	54.312	-8.6	93	0.00
32	T	1,1,1-Trichloroethane	50.000	55.958	-11.9	90	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.280	-2.6	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	86	0.00
35	S	Dibromofluoromethane	50.000	52.461	-4.9	92	0.00
36	T	1,1-Dichloropropene	50.000	52.619	-5.2	91	0.00
37	T	Ethyl Acetate	50.000	53.244	-6.5	91	0.00
38	T	Carbon Tetrachloride	50.000	52.659	-5.3	90	0.00
39	T	Methylcyclohexane	50.000	53.805	-7.6	91	0.00
40	TM	Benzene	50.000	55.328	-10.7	93	0.00
41	T	Methacrylonitrile	50.000	55.020	-10.0	90	0.00
42	TM	1,2-Dichloroethane	50.000	53.472	-6.9	90	0.00
43	T	Isopropyl Acetate	50.000	54.094	-8.2	90	0.00
44	TM	Trichloroethene	50.000	55.974	-11.9	94	0.00
45	C	1,2-Dichloropropane	50.000	55.852	-11.7#	92	0.00
46	T	Dibromomethane	50.000	55.264	-10.5	92	0.00
47	T	Bromodichloromethane	50.000	55.419	-10.8	90	0.00
48	T	Methyl methacrylate	50.000	53.434	-6.9	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1254.001	-25.4#	98	0.00
50	S	Toluene-d8	50.000	51.720	-3.4	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	275.127	-10.1	89	0.00
52	CM	Toluene	50.000	55.411	-10.8#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	56.347	-12.7	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.434	-12.9	93	0.00
55	T	1,1,2-Trichloroethane	50.000	55.502	-11.0	92	0.00
56	T	Ethyl methacrylate	50.000	56.751	-13.5	91	0.00
57	T	1,3-Dichloropropane	50.000	56.707	-13.4	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	274.956	-10.0	93	0.00
59	T	2-Hexanone	250.000	272.845	-9.1	90	0.00
60	T	Dibromochloromethane	50.000	56.997	-14.0	92	0.00
61	T	1,2-Dibromoethane	50.000	56.870	-13.7	93	0.00
62	S	4-Bromofluorobenzene	50.000	52.073	-4.1	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64	T	Tetrachloroethene	50.000	54.167	-8.3	94	0.00
65	PM	Chlorobenzene	50.000	54.848	-9.7	92	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.149	-12.3	93	0.00
67	C	Ethyl Benzene	50.000	54.859	-9.7#	92	0.00
68	T	m/p-Xylenes	100.000	110.636	-10.6	92	0.00
69	T	o-Xylene	50.000	55.967	-11.9	92	0.00
70	T	Styrene	50.000	55.888	-11.8	93	0.00
71	P	Bromoform	50.000	56.699	-13.4	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73	T	Isopropylbenzene	50.000	53.558	-7.1	91	0.00
74	T	N-amyl acetate	50.000	54.388	-8.8	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.463	-8.9	92	0.00
76	T	1,2,3-Trichloropropane	50.000	48.886	2.2	79	0.00
77	T	Bromobenzene	50.000	54.994	-10.0	94	0.00
78	T	n-propylbenzene	50.000	53.923	-7.8	91	0.00
79	T	2-Chlorotoluene	50.000	53.352	-6.7	91	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.867	-7.7	91	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.569	-5.1	91	0.00
82	T	4-Chlorotoluene	50.000	53.035	-6.1	90	0.00
83	T	tert-Butylbenzene	50.000	53.095	-6.2	91	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.142	-8.3	92	0.00
85	T	sec-Butylbenzene	50.000	53.598	-7.2	91	0.00
86	T	p-Isopropyltoluene	50.000	53.461	-6.9	91	0.00
87	T	1,3-Dichlorobenzene	50.000	54.263	-8.5	94	0.00
88	T	1,4-Dichlorobenzene	50.000	53.031	-6.1	93	0.00
89	T	n-Butylbenzene	50.000	53.292	-6.6	91	0.00
90	T	Hexachloroethane	50.000	53.956	-7.9	92	0.00
91	T	1,2-Dichlorobenzene	50.000	55.091	-10.2	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.656	-3.3	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.421	-6.8	90	0.00
94	T	Hexachlorobutadiene	50.000	52.946	-5.9	91	0.00
95	T	Naphthalene	50.000	53.744	-7.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	55.060	-10.1	91	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: Alliance | Contract: TETR06

Lab Code: ACE | SDG No.: Q3141

Instrument ID: MSVOA_X | Calibration Date/Time: 09/23/2025 19:00

Lab File ID: VX047744.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.632		22.01	50
Chloromethane	0.680	0.784	0.1	15.29	50
Vinyl Chloride	0.666	0.776		16.52	50
Bromomethane	0.422	0.496		17.54	50
Chloroethane	0.445	0.505		13.48	50
Trichlorofluoromethane	0.989	1.097		10.92	50
1,1,2-Trichlorotrifluoroethane	0.578	0.639		10.55	50
1,1-Dichloroethene	0.594	0.657		10.61	50
Acetone	0.346	0.295		-14.74	50
Carbon Disulfide	1.626	1.828		12.42	50
Methyl tert-butyl Ether	2.169	2.338		7.79	50
Methyl Acetate	0.770	0.876		13.77	50
Methylene Chloride	0.732	0.797		8.88	50
trans-1,2-Dichloroethene	0.640	0.715		11.72	50
1,1-Dichloroethane	1.263	1.376	0.1	8.95	50
Cyclohexane	1.052	1.100		4.56	50
2-Butanone	0.432	0.442		2.32	50
Carbon Tetrachloride	0.532	0.522		-1.88	50
cis-1,2-Dichloroethene	0.783	0.862		10.09	50
Bromochloromethane	0.551	0.579		5.08	50
Chloroform	1.276	1.391		9.01	50
1,1,1-Trichloroethane	1.082	1.150		6.28	50
Methylcyclohexane	0.556	0.569		2.34	50
Benzene	1.488	1.586		6.59	50
1,2-Dichloroethane	0.566	0.582		2.83	50
Trichloroethene	0.360	0.386		7.22	50
1,2-Dichloropropane	0.381	0.410		7.61	50
Bromodichloromethane	0.572	0.607		6.12	50
4-Methyl-2-Pentanone	0.477	0.521		9.22	50
Toluene	0.917	0.974		6.22	50
t-1,3-Dichloropropene	0.584	0.590		1.03	50
cis-1,3-Dichloropropene	0.624	0.642		2.88	50
1,1,2-Trichloroethane	0.354	0.387		9.32	50
2-Hexanone	0.343	0.358		4.37	50
Dibromochloromethane	0.407	0.441		8.35	50
1,2-Dibromoethane	0.360	0.396		10	50
Tetrachloroethene	0.326	0.337		3.37	50
Chlorobenzene	1.136	1.185	0.3	4.31	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: Alliance | Contract: TETR06

Lab Code: ACE | SDG No.: Q3141

Instrument ID: MSVOA_X | Calibration Date/Time: 09/23/2025 19:00

Lab File ID: VX047744.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.020		3.06	50
m/p-Xylenes	0.729	0.755		3.57	50
o-Xylene	0.706	0.741		4.96	50
Styrene	1.236	1.305		5.58	50
Bromoform	0.293	0.305	0.1	4.1	50
Isopropylbenzene	3.801	3.780		-0.55	50
1,1,2,2-Tetrachloroethane	1.150	1.194	0.3	3.83	50
1,3-Dichlorobenzene	1.739	1.714		-1.44	50
1,4-Dichlorobenzene	1.785	1.729		-3.14	50
1,2-Dichlorobenzene	1.657	1.655		-0.12	50
1,2-Dibromo-3-Chloropropane	0.233	0.228		-2.15	50
1,2,4-Trichlorobenzene	1.077	1.029		-4.46	50
1,2,3-Trichlorobenzene	1.002	0.989		-1.3	50
1,2-Dichloroethane-d4	0.796	0.781		-1.88	50
Dibromofluoromethane	0.335	0.336		0.3	50
Toluene-d8	1.160	1.139		-1.81	50
4-Bromofluorobenzene	0.440	0.434		-1.36	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\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	149304	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270355	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	243306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	119961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	116606	49.065	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.140%			
35) Dibromofluoromethane	5.379	113	90861	50.112	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.220%			
50) Toluene-d8	8.634	98	307967	49.087	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.180%			
62) 4-Bromofluorobenzene	11.061	95	117402	49.307	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	94404	61.061	ug/l	97
3) Chloromethane	1.300	50	117058	57.609	ug/l	98
4) Vinyl Chloride	1.380	62	115926	58.282	ug/l	100
5) Bromomethane	1.617	94	74054	58.713	ug/l	99
6) Chloroethane	1.697	64	75449	56.753	ug/l	97
7) Trichlorofluoromethane	1.898	101	163767	55.451	ug/l	99
8) Diethyl Ether	2.136	74	65417	54.148	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	95418	55.254	ug/l	99
10) Methyl Iodide	2.459	142	145088	53.870	ug/l	100
11) Tert butyl alcohol	2.946	59	61154	231.046	ug/l	100
12) 1,1-Dichloroethene	2.325	96	98052	55.275	ug/l	96
13) Acrolein	2.239	56	68714	281.718	ug/l	98
14) Allyl chloride	2.666	41	185829	50.766	ug/l	97
15) Acrylonitrile	3.062	53	282724	288.375	ug/l	99
16) Acetone	2.373	43	220076	212.978	ug/l	100
17) Carbon Disulfide	2.520	76	272927	56.202	ug/l	99
18) Methyl Acetate	2.703	43	130811	56.883	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	349001	53.896	ug/l	99
20) Methylene Chloride	2.794	84	119000	54.405	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	106771	55.907	ug/l	99
22) Diisopropyl ether	3.757	45	386641	54.502	ug/l	98
23) Vinyl Acetate	3.715	43	1566296	275.867	ug/l	100
24) 1,1-Dichloroethane	3.611	63	205496	54.500	ug/l	99
25) 2-Butanone	4.544	43	330135	256.128	ug/l	97
26) 2,2-Dichloropropane	4.471	77	130530	41.645	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	128773	55.058	ug/l	95
28) Bromochloromethane	4.891	49	86403	52.489	ug/l	99
29) Tetrahydrofuran	4.995	42	217984	281.124	ug/l	98
30) Chloroform	5.086	83	207673	54.504	ug/l	97
31) Cyclohexane	5.458	56	164278	52.311	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	171647	53.110	ug/l	99
36) 1,1-Dichloropropene	5.684	75	134570	50.792	ug/l	99
37) Ethyl Acetate	4.702	43	146380	51.600	ug/l	99
38) Carbon Tetrachloride	5.672	117	141128	49.026	ug/l	93
39) Methylcyclohexane	7.366	83	153808	51.142	ug/l	99
40) Benzene	6.025	78	428760	53.282	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	79236	54.104	ug/l		98
42) 1,2-Dichloroethane	6.074	62	157471	51.431	ug/l		98
43) Isopropyl Acetate	6.324	43	243453	52.327	ug/l		99
44) Trichloroethene	7.110	130	104230	53.576	ug/l		94
45) 1,2-Dichloropropane	7.415	63	110894	53.818	ug/l		99
46) Dibromomethane	7.568	93	79627	53.104	ug/l		97
47) Bromodichloromethane	7.805	83	164232	53.077	ug/l		96
48) Methyl methacrylate	7.677	41	121164	52.283	ug/l		98
49) 1,4-Dioxane	7.647	88	28012	1196.046	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	703728	272.809	ug/l		100
52) Toluene	8.702	92	263320	53.113	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	159381	50.499	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	173466	51.421	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	104553	54.692	ug/l		98
56) Ethyl methacrylate	9.104	69	163467	54.448	ug/l		96
57) 1,3-Dichloropropane	9.293	76	179171	54.560	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	360369	251.172	ug/l		100
59) 2-Hexanone	9.415	43	483347	260.895	ug/l		99
60) Dibromochloromethane	9.506	129	119117	54.078	ug/l		99
61) 1,2-Dibromoethane	9.592	107	106971	54.937	ug/l		100
64) Tetrachloroethene	9.262	164	82104	51.765	ug/l		96
65) Chlorobenzene	10.061	112	288305	52.159	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	98820	51.810	ug/l		98
67) Ethyl Benzene	10.177	91	491426	51.527	ug/l		99
68) m/p-Xylenes	10.287	106	367469	103.518	ug/l		99
69) o-Xylene	10.628	106	180297	52.511	ug/l		98
70) Styrene	10.640	104	317529	52.779	ug/l		99
71) Bromoform	10.780	173	74197	52.097	ug/l	#	100
73) Isopropylbenzene	10.945	105	453473	49.722	ug/l		99
74) N-amyl acetate	10.829	43	210798	50.685	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	143186	51.892	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	127852m	52.639	ug/l		
77) Bromobenzene	11.183	156	112329	50.007	ug/l		98
78) n-propylbenzene	11.286	91	533484	49.483	ug/l		99
79) 2-Chlorotoluene	11.347	91	324017	49.069	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	370433	49.437	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	44224	46.433	ug/l		97
82) 4-Chlorotoluene	11.439	91	386898	49.610	ug/l		99
83) tert-Butylbenzene	11.695	119	373585	48.704	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	376730	49.591	ug/l		100
85) sec-Butylbenzene	11.872	105	445326	48.878	ug/l		100
86) p-Isopropyltoluene	11.994	119	373936	48.479	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	205631	49.286	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	207463	48.449	ug/l		98
89) n-Butylbenzene	12.317	91	345737	48.442	ug/l		98
90) Hexachloroethane	12.518	117	65317	48.232	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	198557	49.953	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27323	48.908	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	123384	47.762	ug/l		98
94) Hexachlorobutadiene	13.707	225	39729	45.277	ug/l		99
95) Naphthalene	13.756	128	389975	49.575	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	118608	49.357	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

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

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

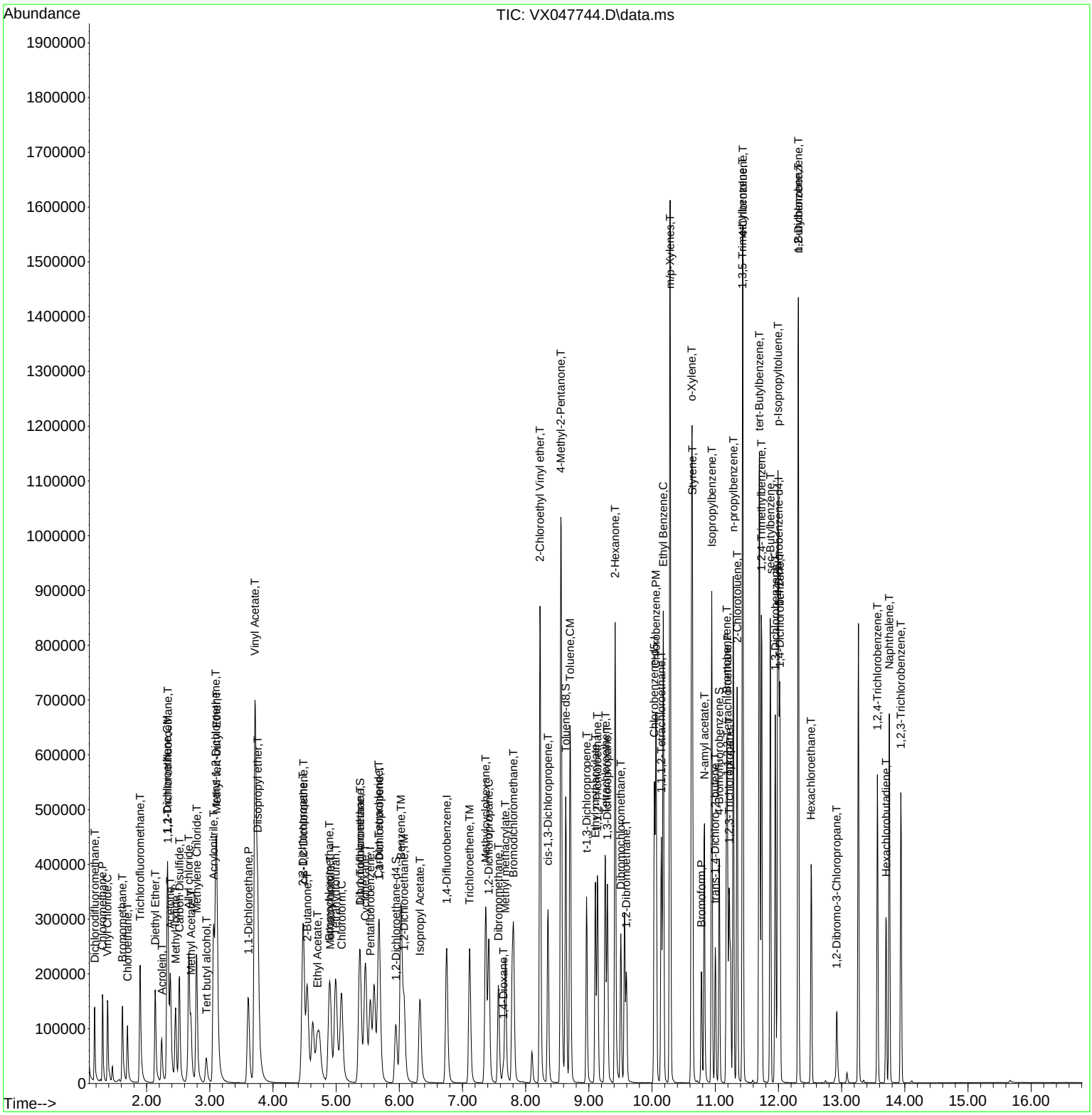
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

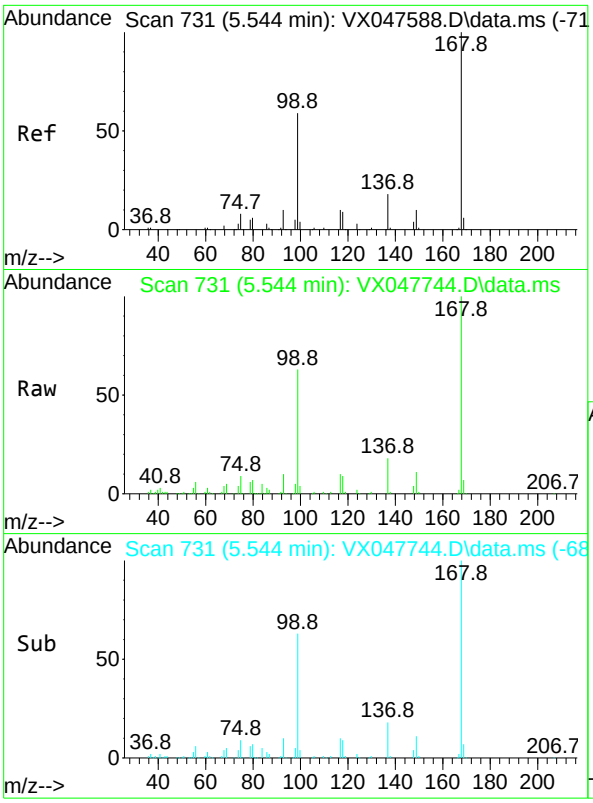
Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

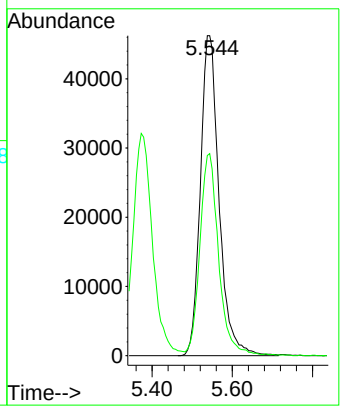




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:168 Resp: 14930

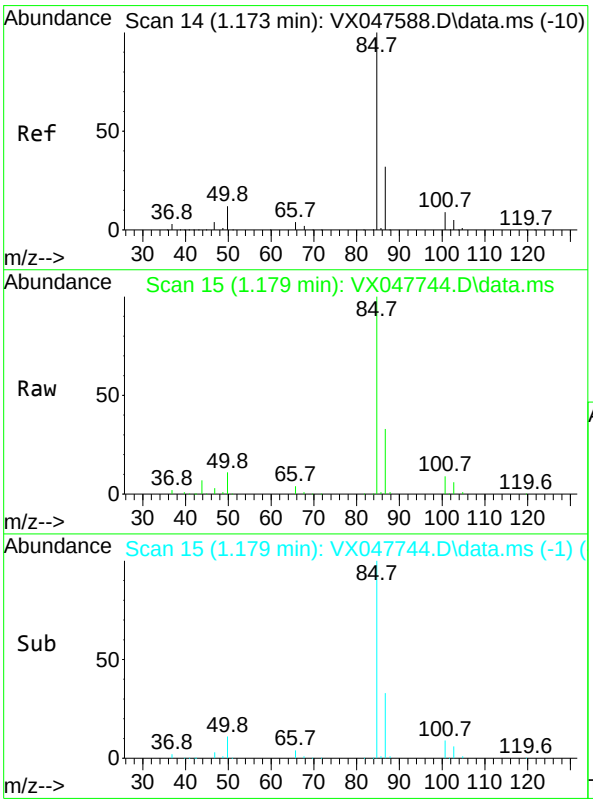
Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

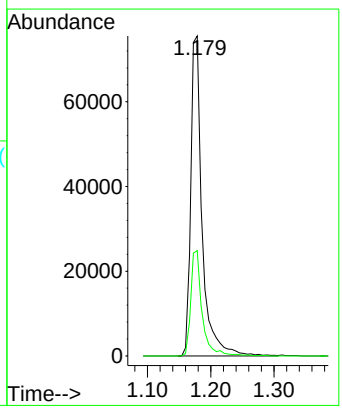
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

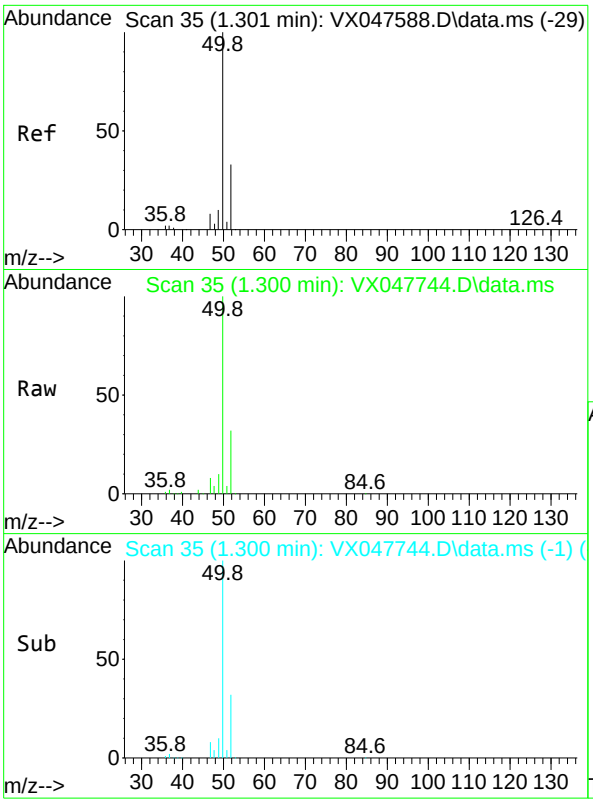


#2
Dichlorodifluoromethane
Concen: 61.061 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 85 Resp: 94404

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

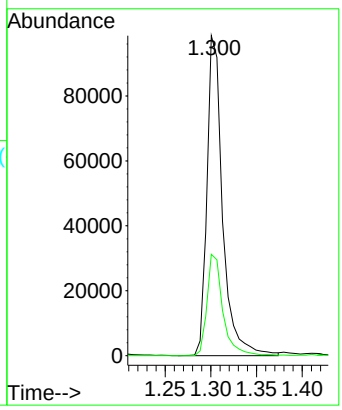




#3
Chloromethane
Concen: 57.609 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 50 Resp: 11705

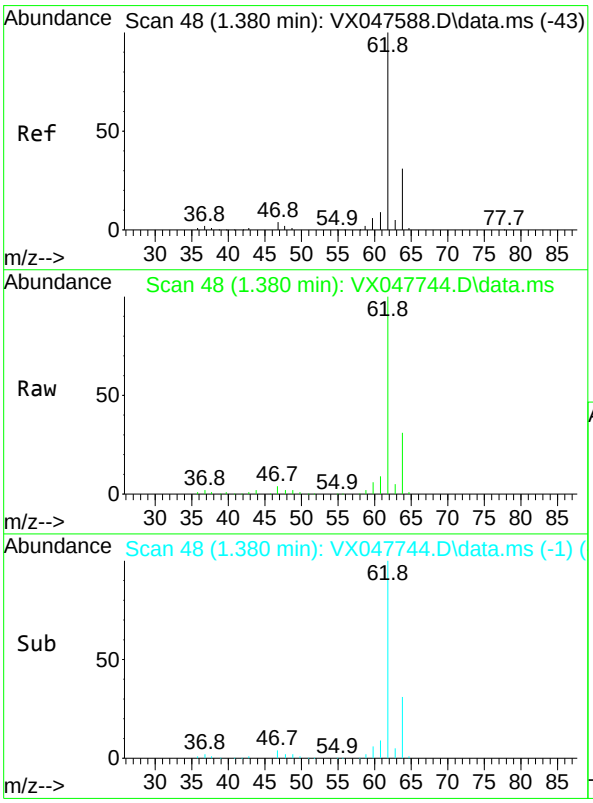
Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

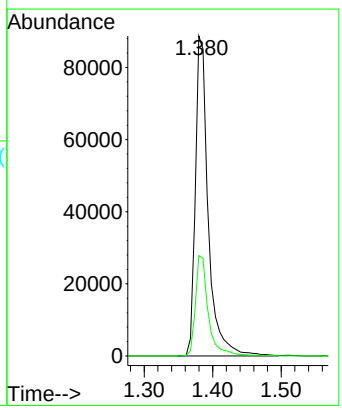
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

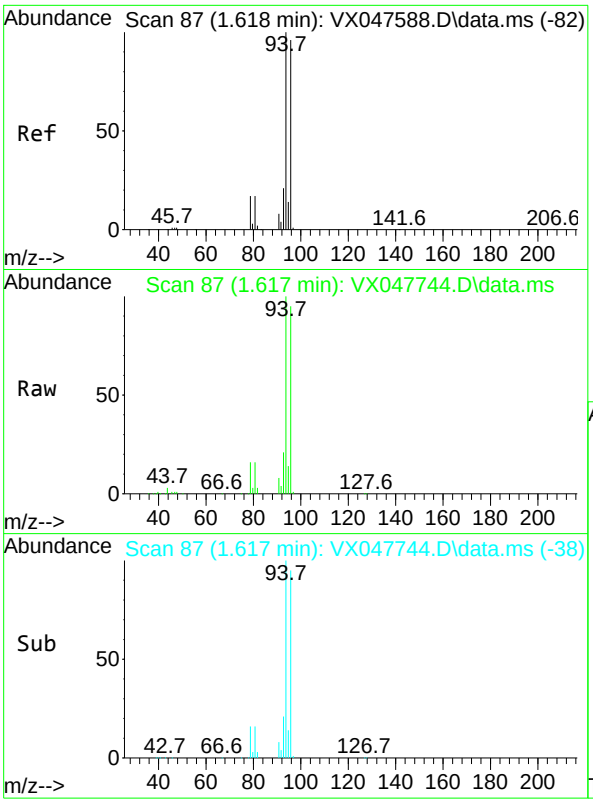


#4
Vinyl Chloride
Concen: 58.282 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 115926

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.9	37.3

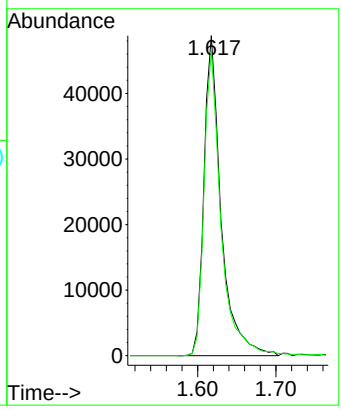




#5
Bromomethane
Concen: 58.713 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 94 Resp: 7405

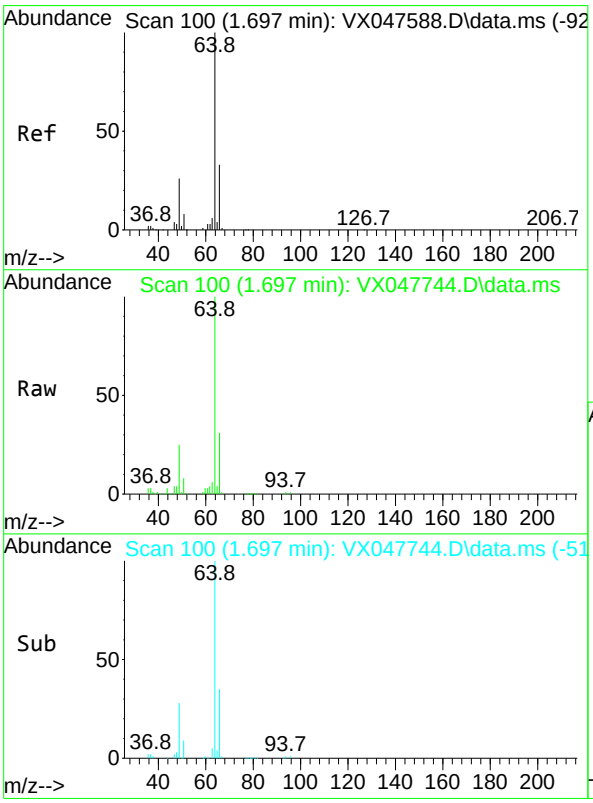
Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

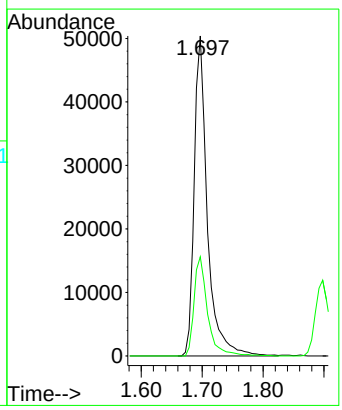
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

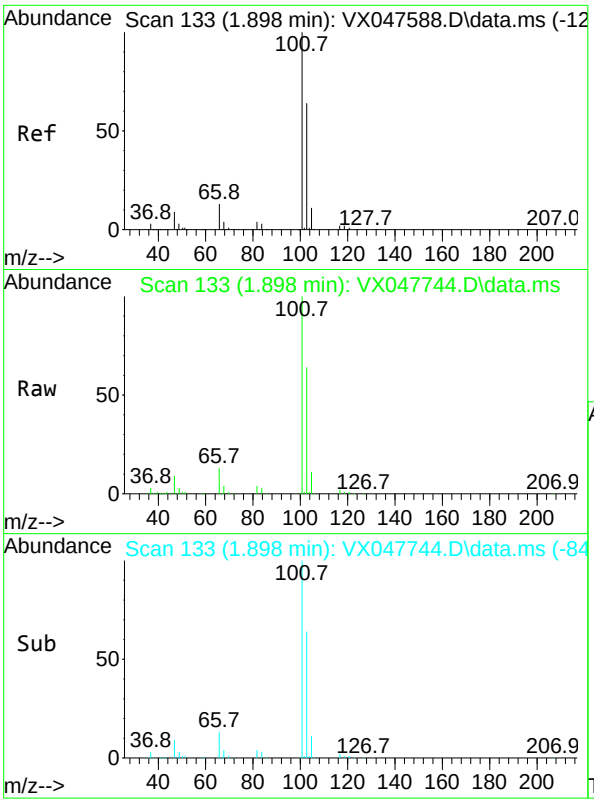


#6
Chloroethane
Concen: 56.753 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 64 Resp: 75449

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1





#7
Trichlorofluoromethane
Concen: 55.451 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

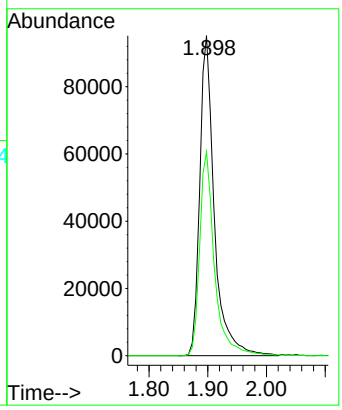
Tgt Ion:101 Resp: 16376

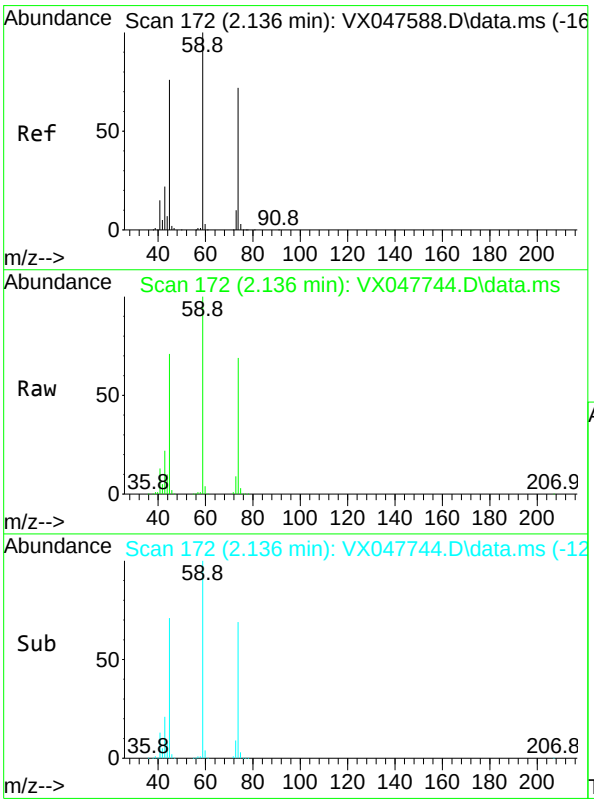
Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

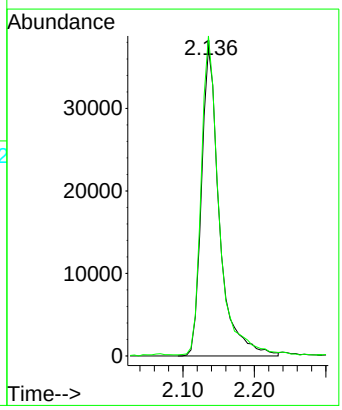


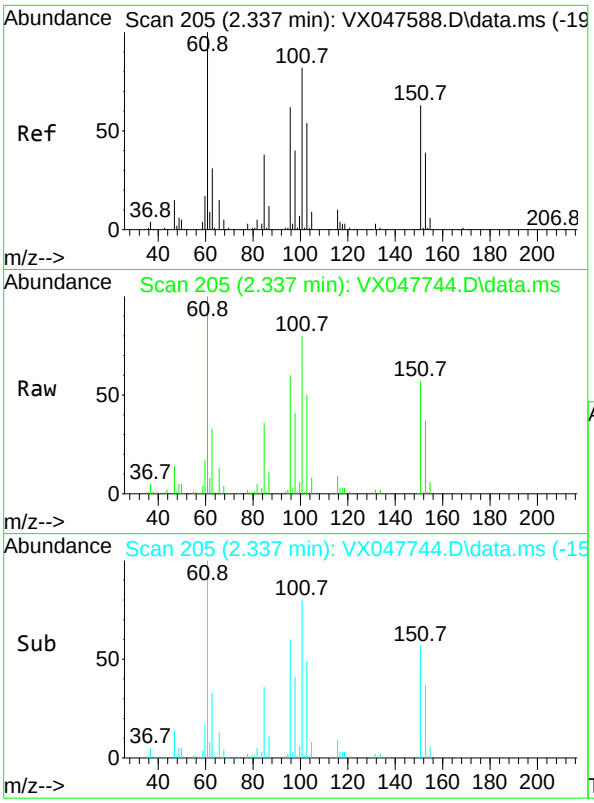


#8
Diethyl Ether
Concen: 54.148 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 74 Resp: 65417

Ion	Ratio	Lower	Upper
74	100		
45	102.9	52.3	156.8

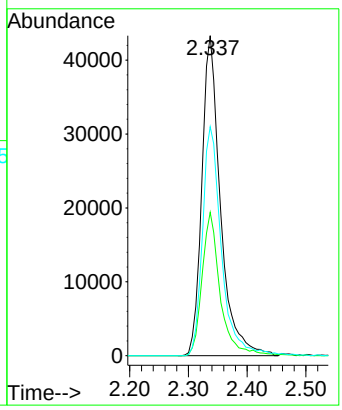




#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.254 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:101 Resp: 9541

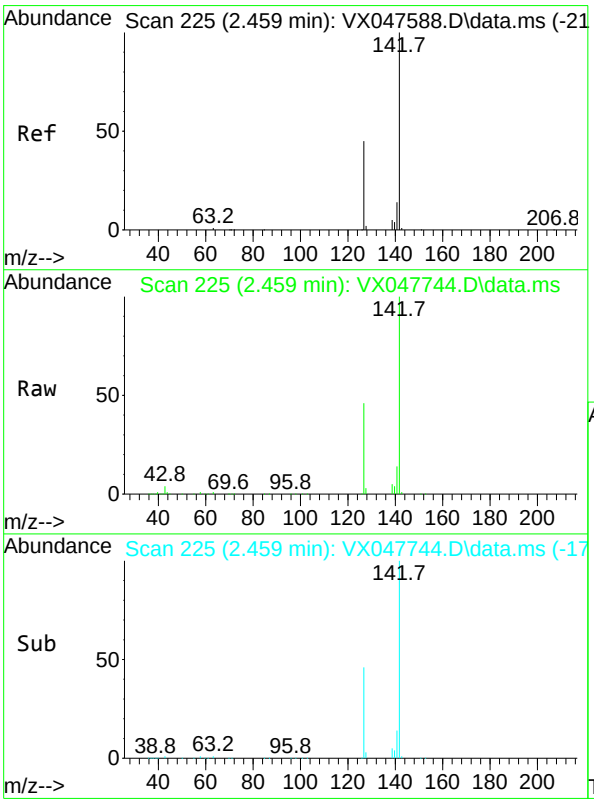
Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.5	53.3
151	73.2	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

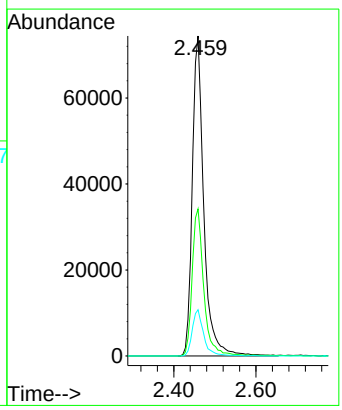
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

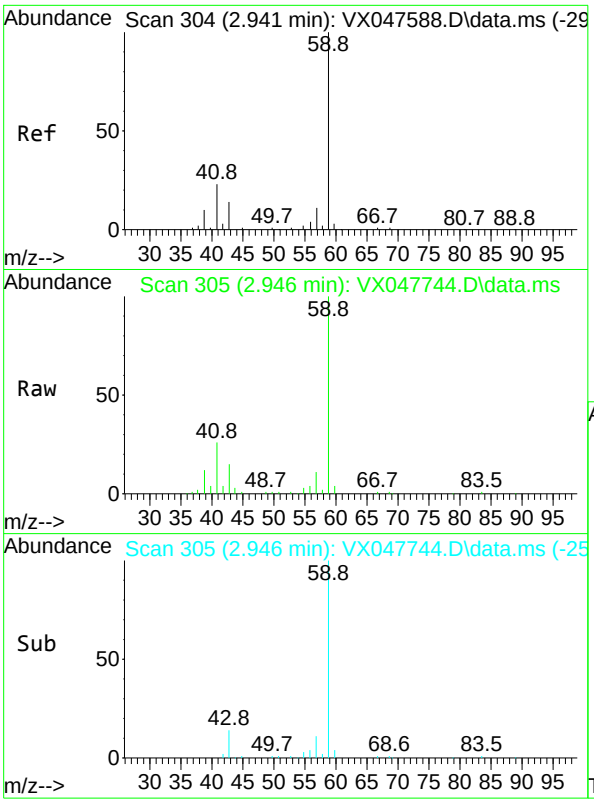


#10
Methyl Iodide
Concen: 53.870 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:142 Resp: 145088

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.3	11.4	17.0

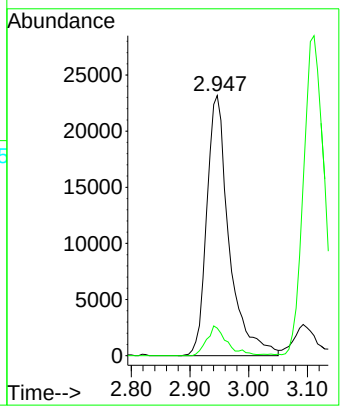




#11
Tert butyl alcohol
Concen: 231.046 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 59 Resp: 6115

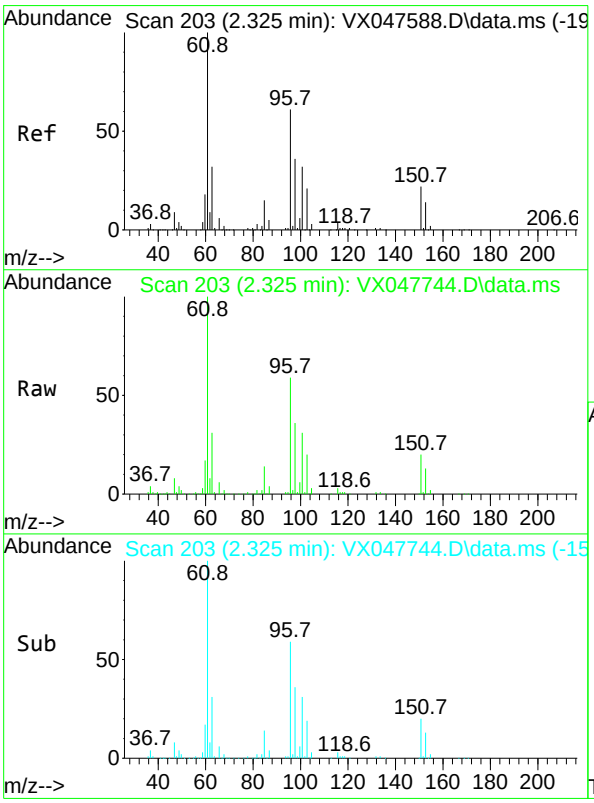
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

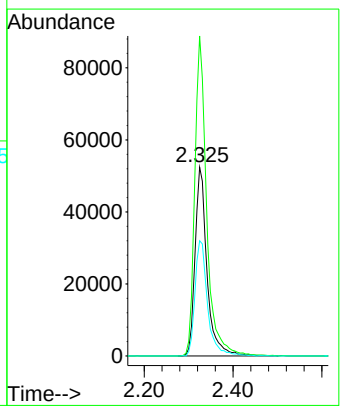
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

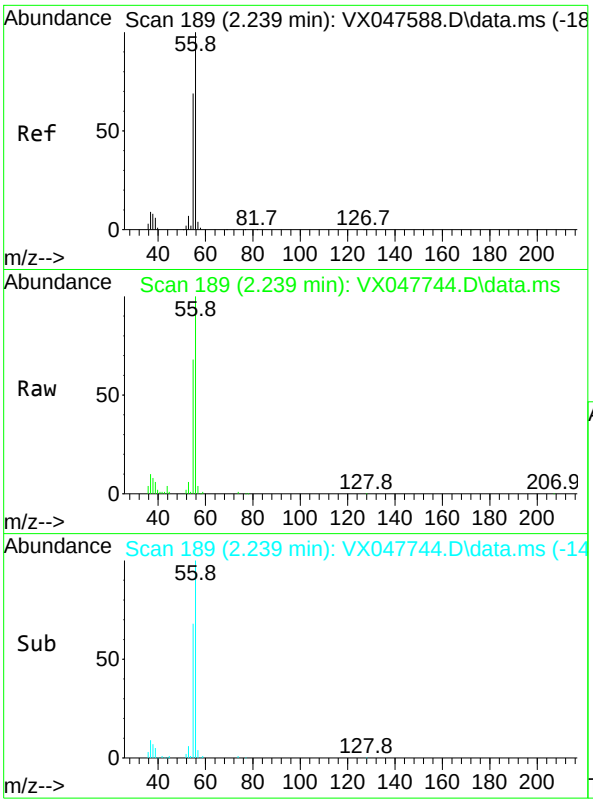


#12
1,1-Dichloroethene
Concen: 55.275 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 98052

Ion	Ratio	Lower	Upper
96	100		
61	169.5	131.0	196.6
98	61.1	47.7	71.5

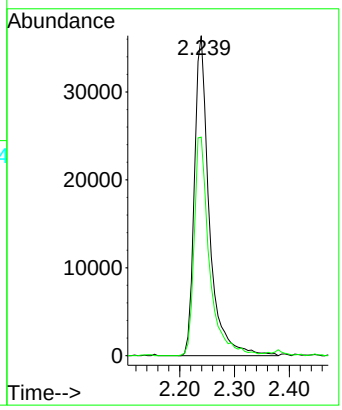




#13
Acrolein
Concen: 281.718 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 56 Resp: 6871

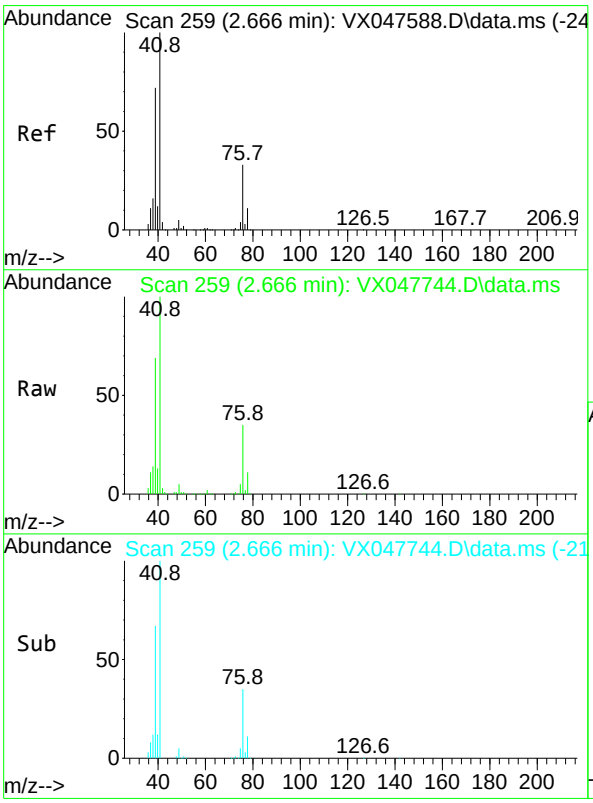
Ion	Ratio	Lower	Upper
56	100		
55	69.9	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

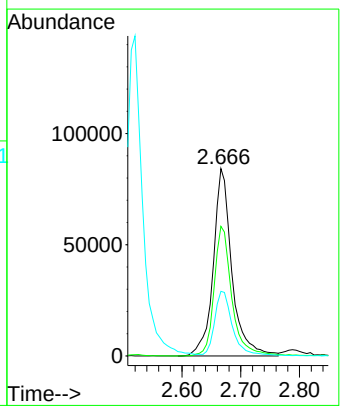
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

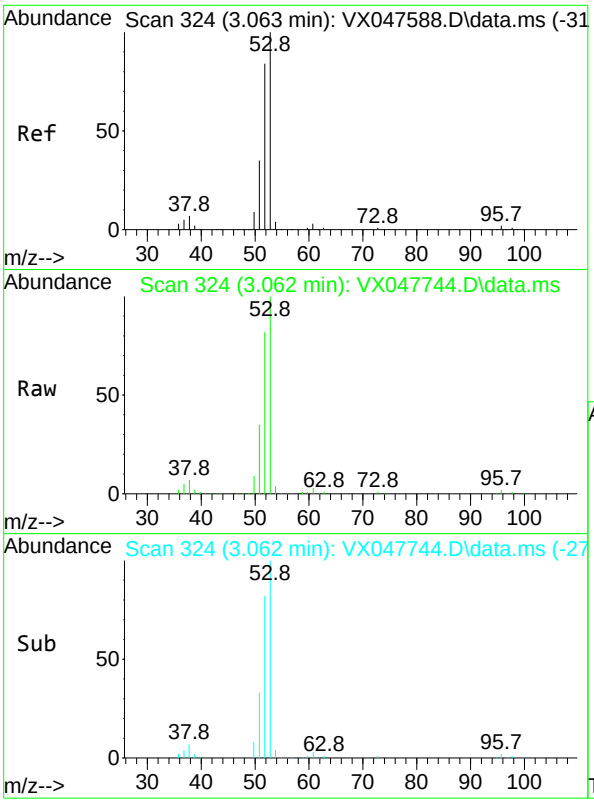


#14
Allyl chloride
Concen: 50.766 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 185829

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	33.1	25.7	38.5

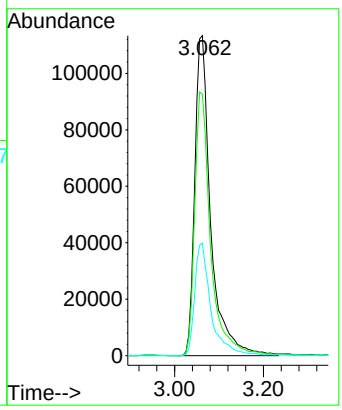




#15
Acrylonitrile
Concen: 288.375 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 53 Resp: 28272

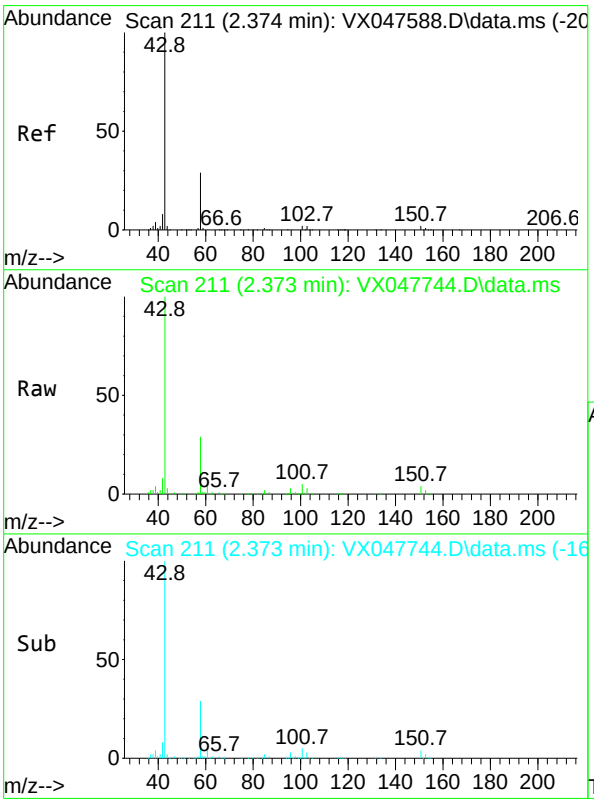
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	36.3	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

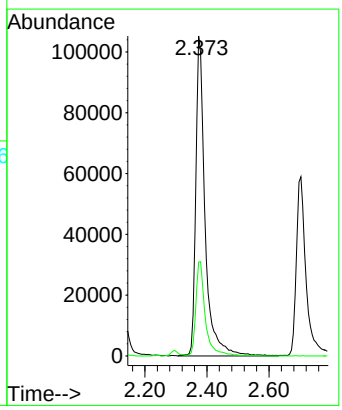
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

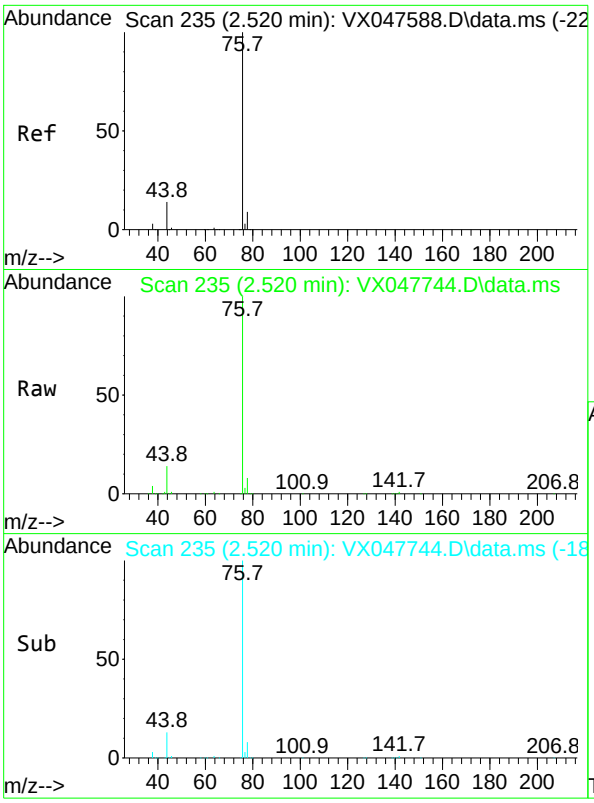


#16
Acetone
Concen: 212.978 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 220076

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0

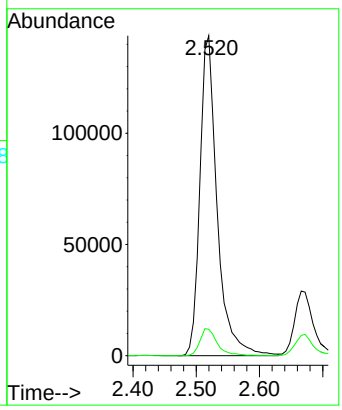




#17
Carbon Disulfide
Concen: 56.202 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 76 Resp: 27292

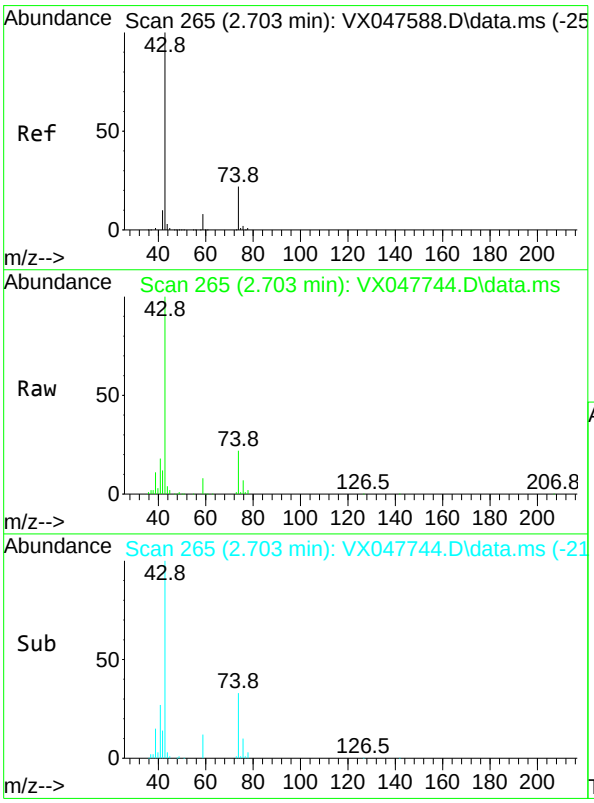
Ion	Ratio	Lower	Upper
76	100		
78	8.3	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

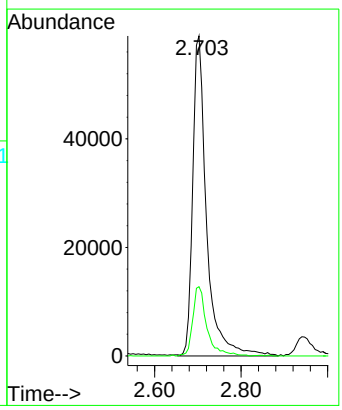
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

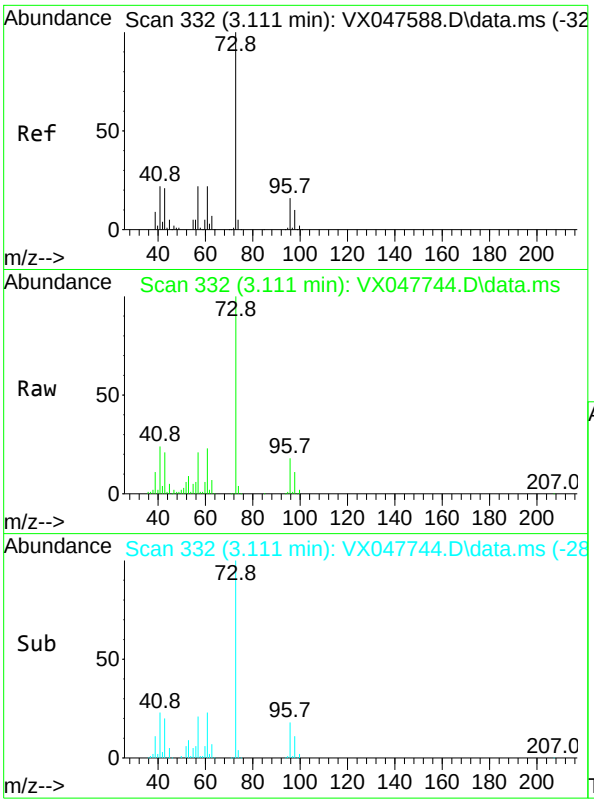


#18
Methyl Acetate
Concen: 56.883 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 130811

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

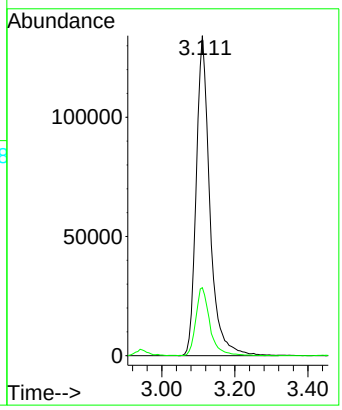




#19
Methyl tert-butyl Ether
Concen: 53.896 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 73 Resp: 34900

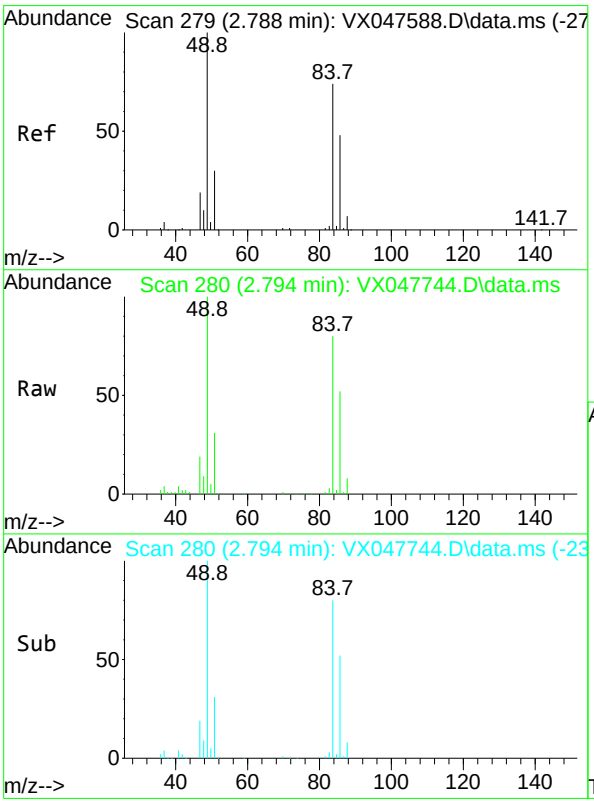
Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

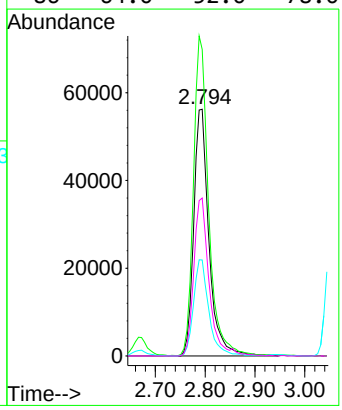
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

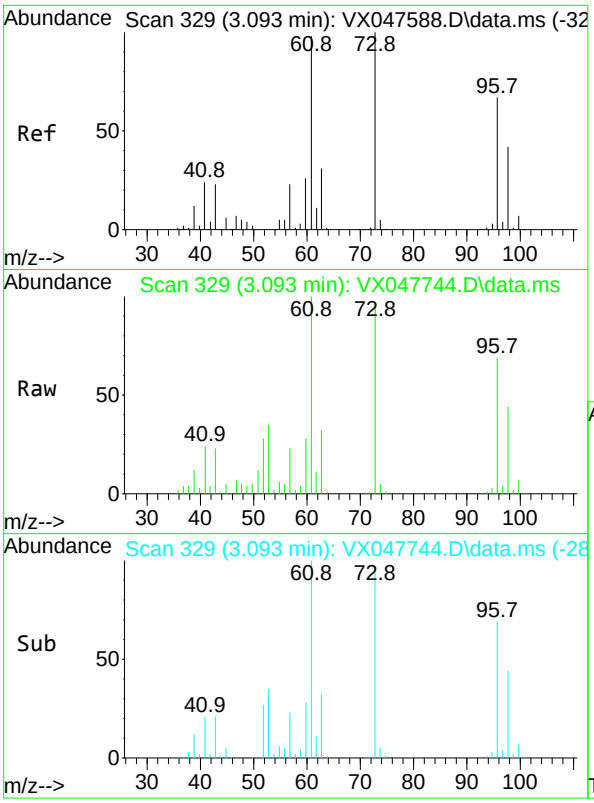


#20
Methylene Chloride
Concen: 54.405 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 84 Resp: 119000

Ion	Ratio	Lower	Upper
84	100		
49	124.1	108.6	162.8
51	38.9	32.6	48.8
86	64.0	52.0	78.0

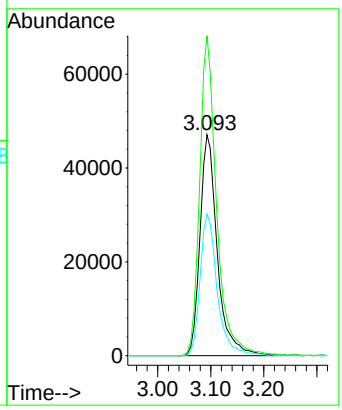




#21
trans-1,2-Dichloroethene
Concen: 55.907 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 10677

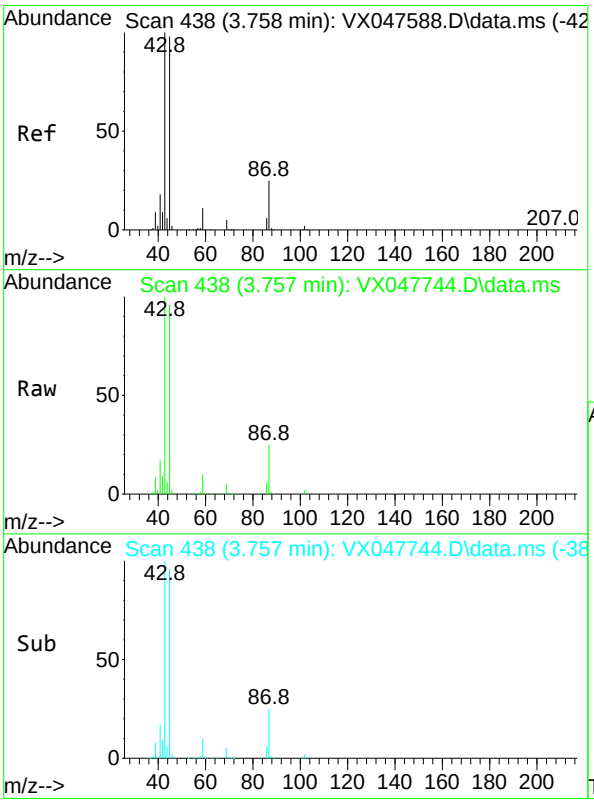
Ion	Ratio	Lower	Upper
96	100		
61	144.8	116.2	174.2
98	64.1	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

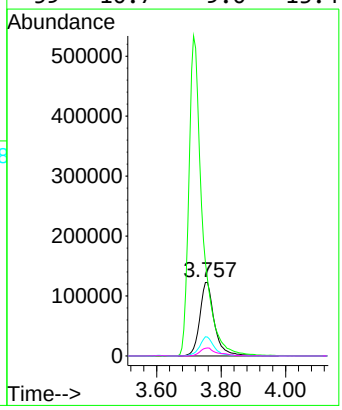
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

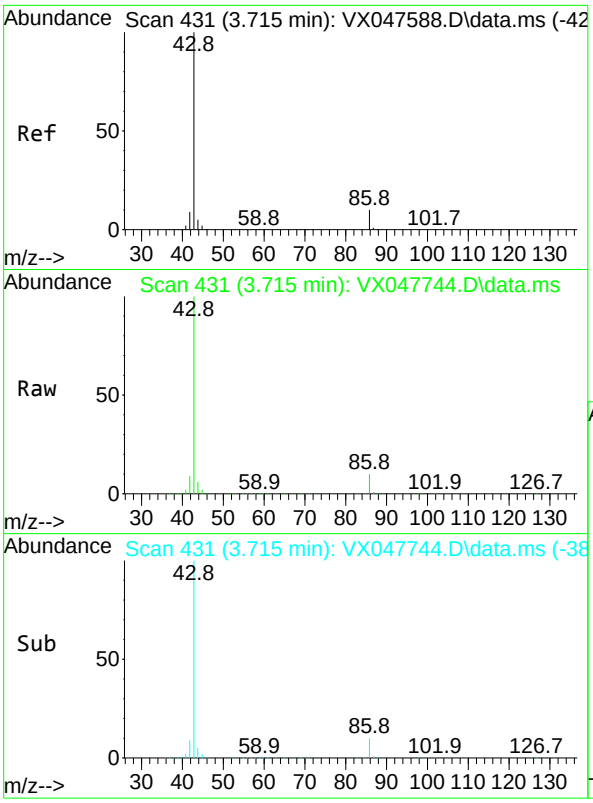


#22
Diisopropyl ether
Concen: 54.502 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 45 Resp: 386641

Ion	Ratio	Lower	Upper
45	100		
43	103.5	81.0	121.4
87	25.6	20.3	30.5
59	10.7	9.0	13.4

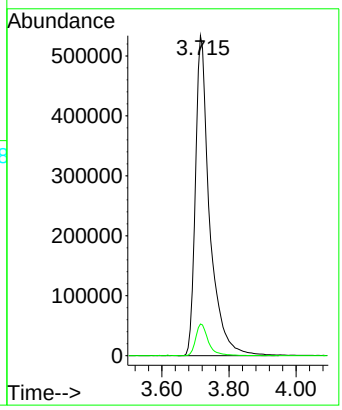




#23
Vinyl Acetate
Concen: 275.867 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 156629

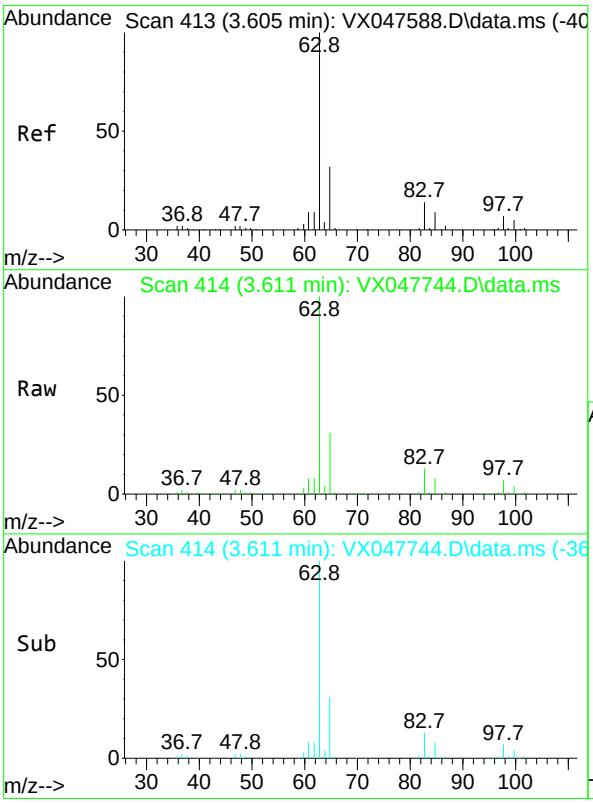
Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

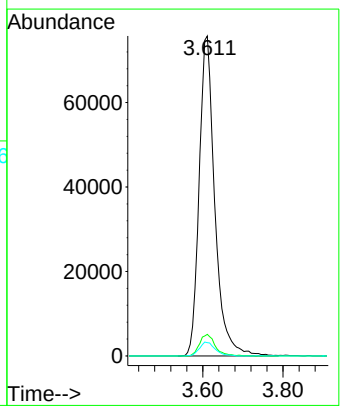
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

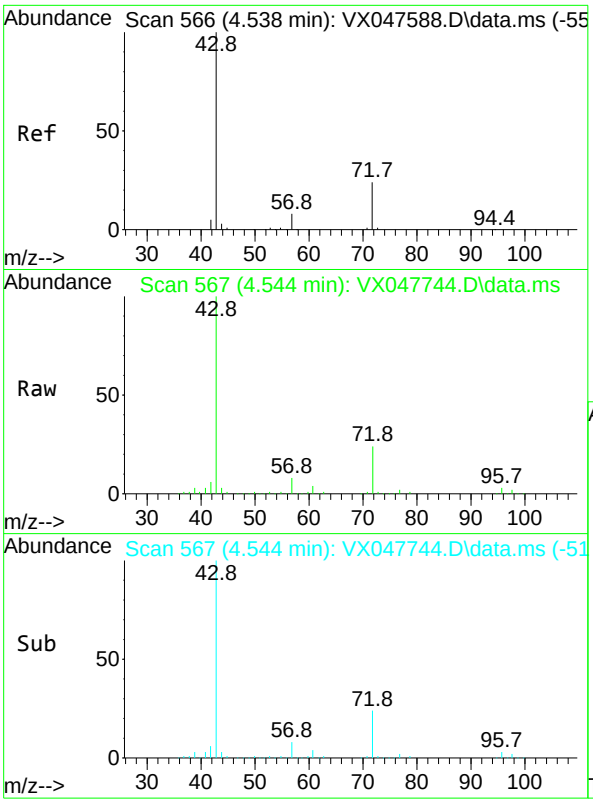


#24
1,1-Dichloroethane
Concen: 54.500 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 205496

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.2	2.3	6.9

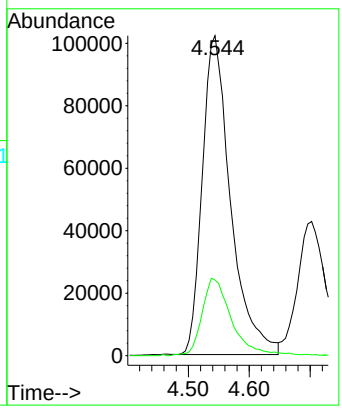




#25
2-Butanone
Concen: 256.128 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 33013

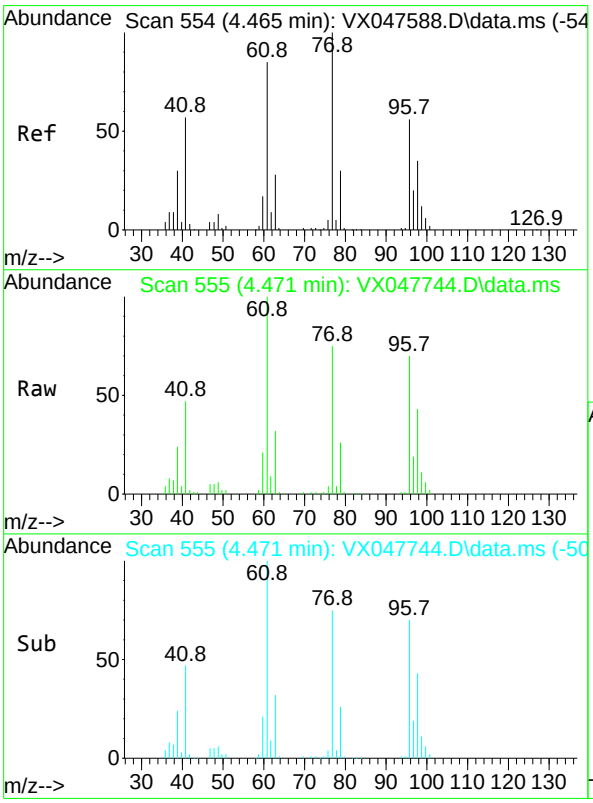
Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

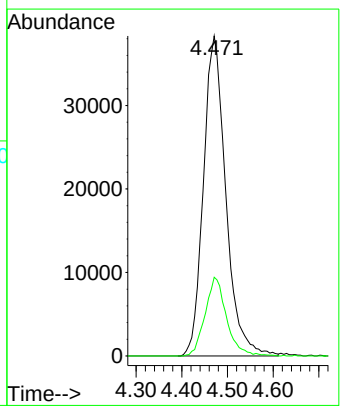
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

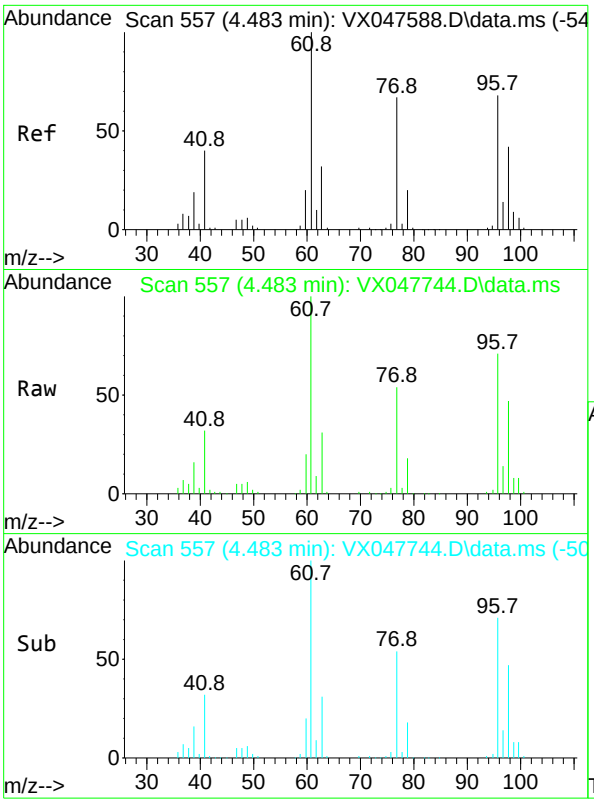


#26
2,2-Dichloropropane
Concen: 41.645 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 77 Resp: 130530

Ion	Ratio	Lower	Upper
77	100		
97	23.5	10.9	32.7

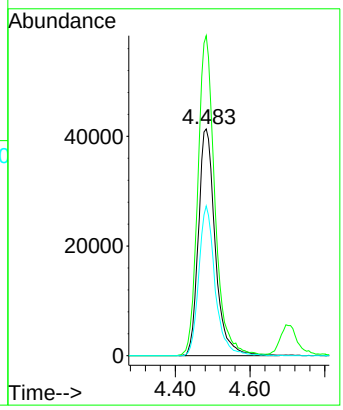




#27
cis-1,2-Dichloroethene
Concen: 55.058 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 12877

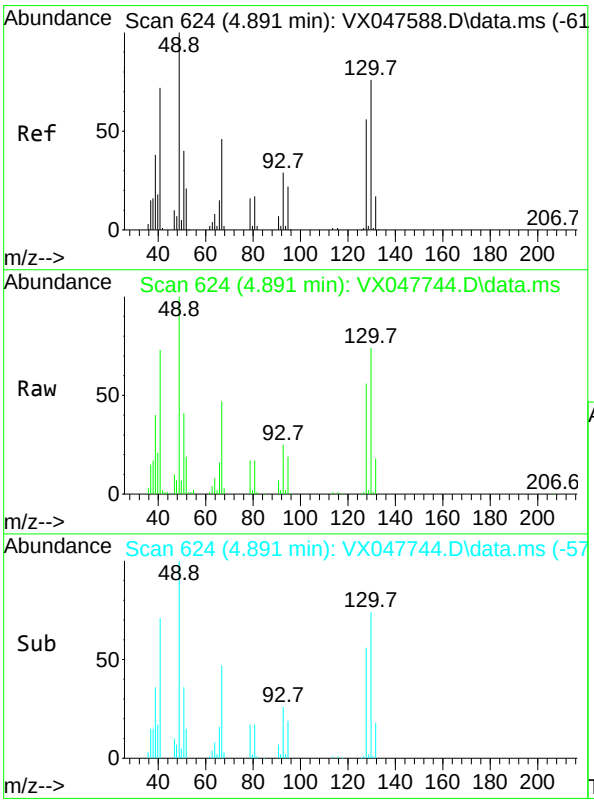
Ion	Ratio	Lower	Upper
96	100		
61	143.3	0.0	303.2
98	64.2	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

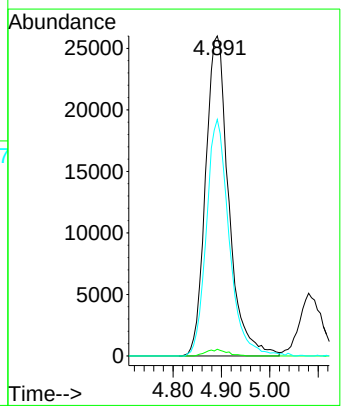
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

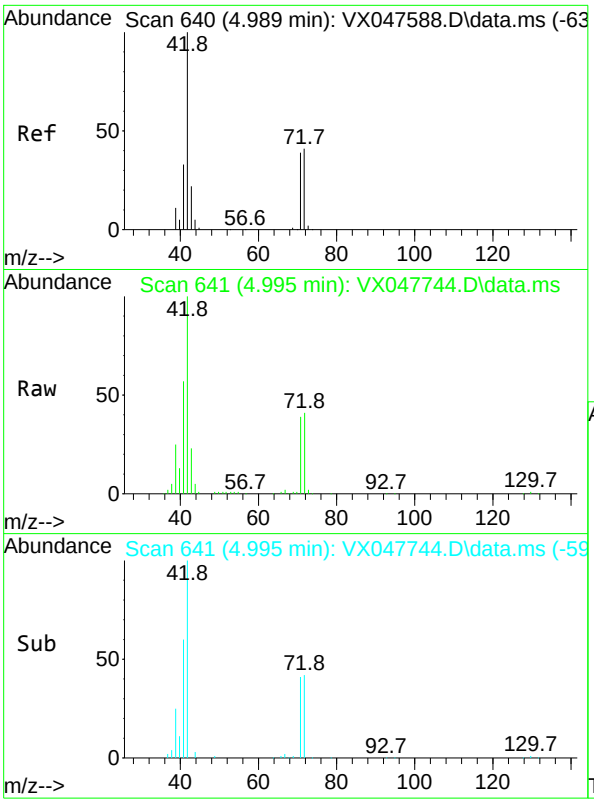


#28
Bromochloromethane
Concen: 52.489 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 49 Resp: 86403

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8





#29
Tetrahydrofuran
Concen: 281.124 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

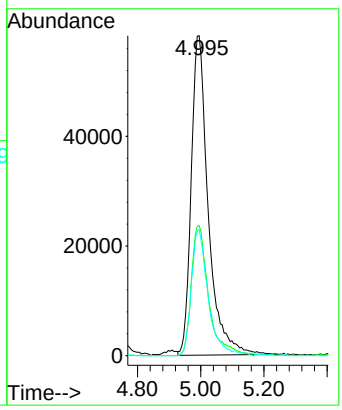
Tgt Ion: 42 Resp: 21798

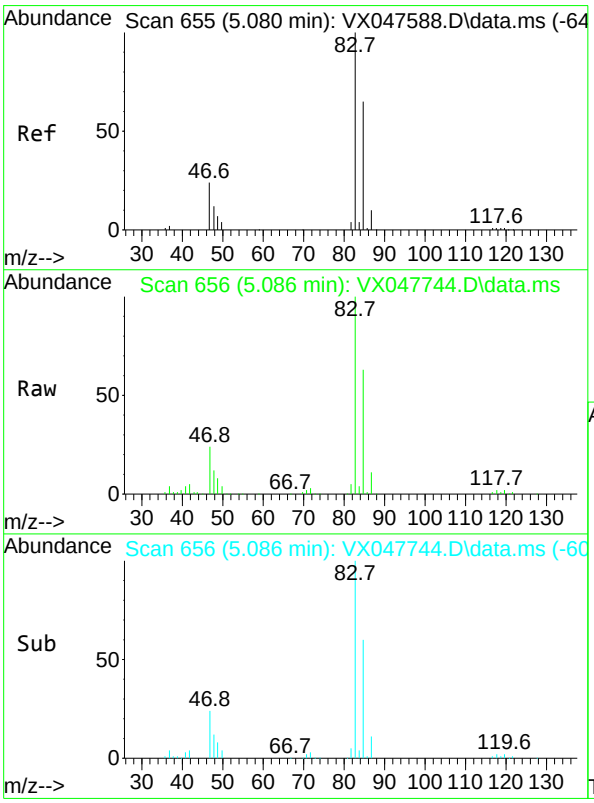
Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	39.0	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

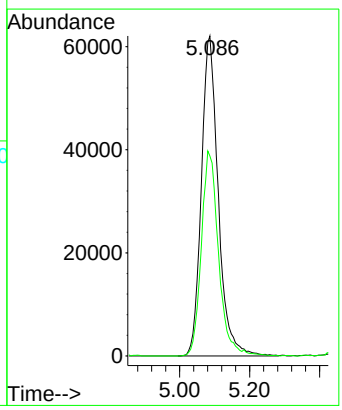


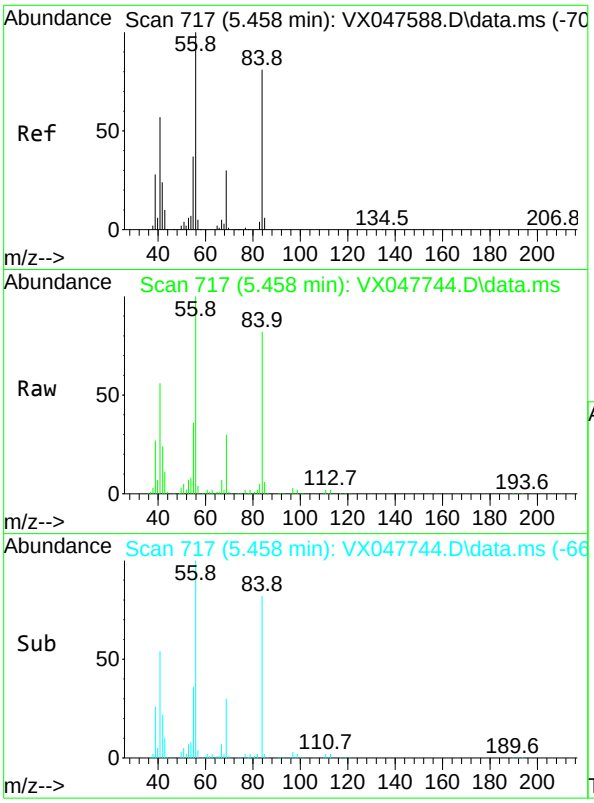


#30
Chloroform
Concen: 54.504 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 207673

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.6

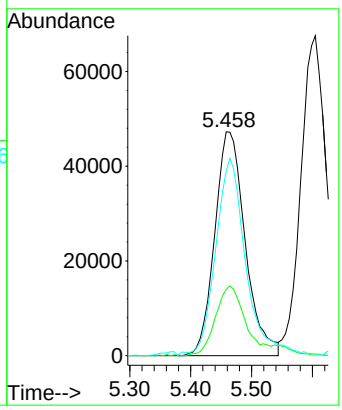




#31
Cyclohexane
Concen: 52.311 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 56 Resp: 16427

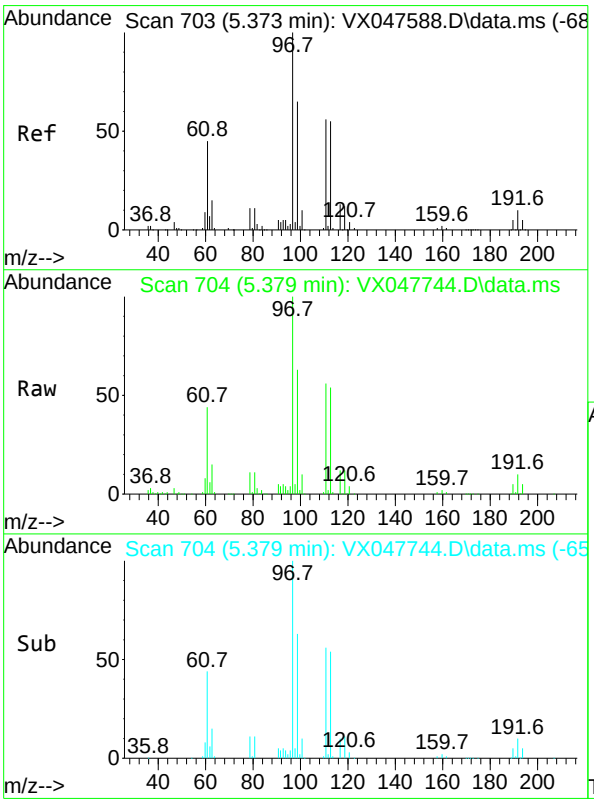
Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.8	35.8
84	82.3	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

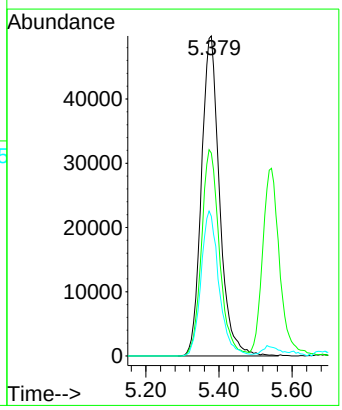
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

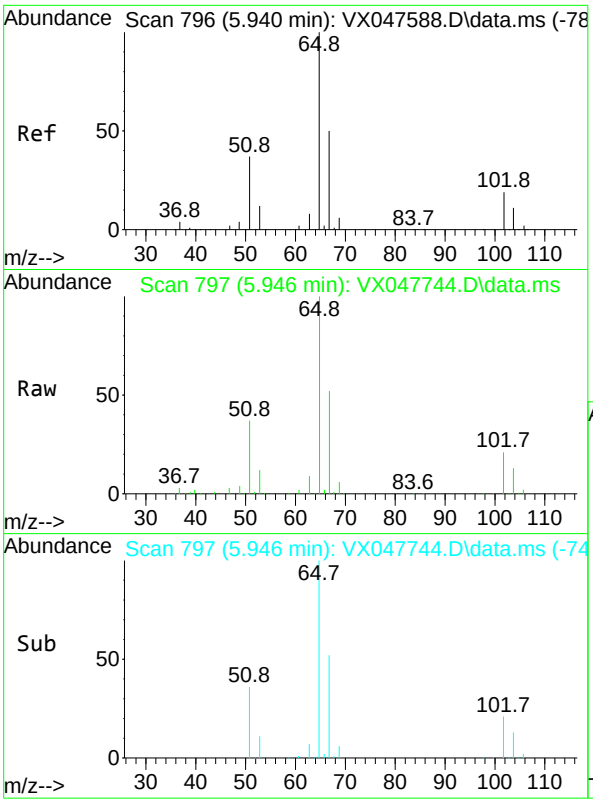


#32
1,1,1-Trichloroethane
Concen: 53.110 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 97 Resp: 171647

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	45.0	35.8	53.8

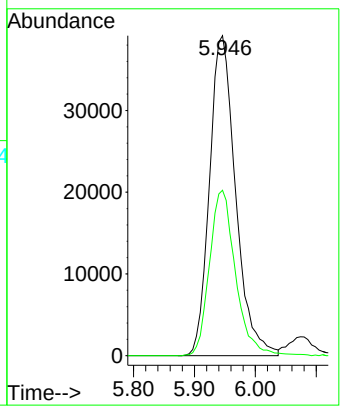




#33
1,2-Dichloroethane-d4
Concen: 49.065 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 65 Resp: 11660

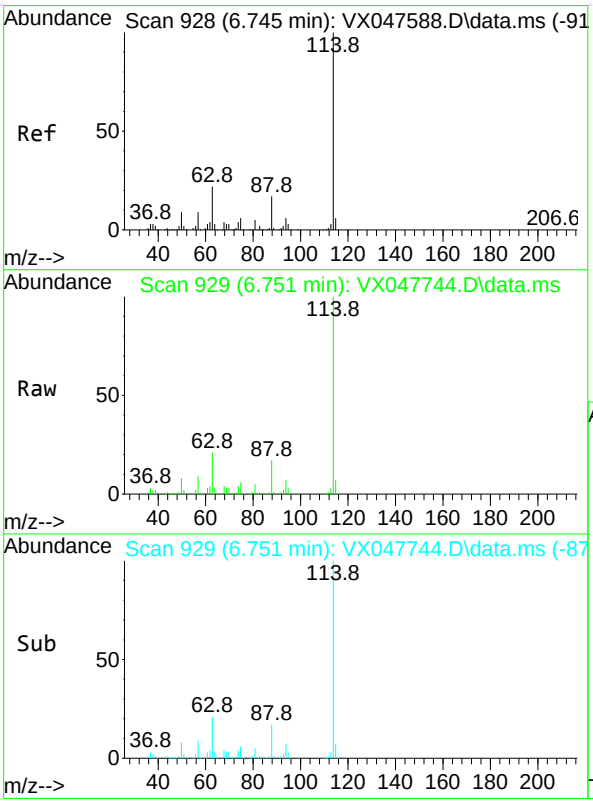
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

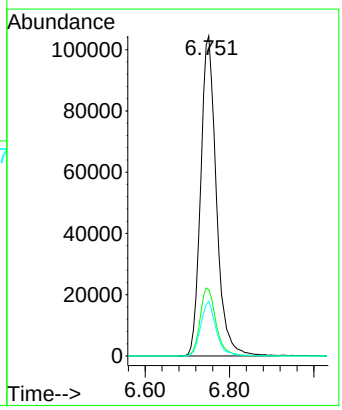
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

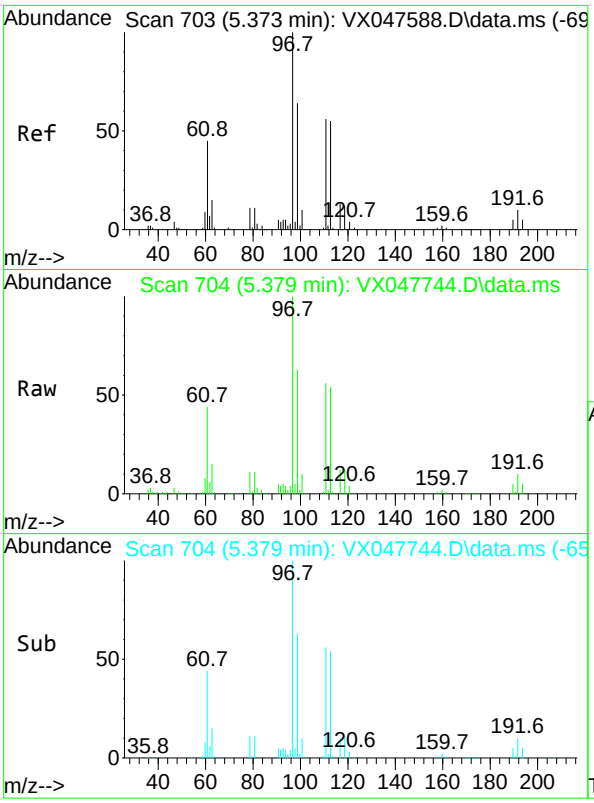


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:114 Resp: 270355

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	17.1	0.0	34.2

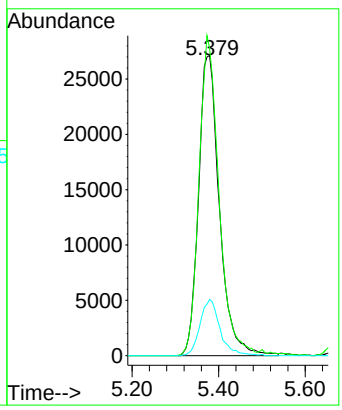




#35
Dibromofluoromethane
Concen: 50.112 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:113 Resp: 9086

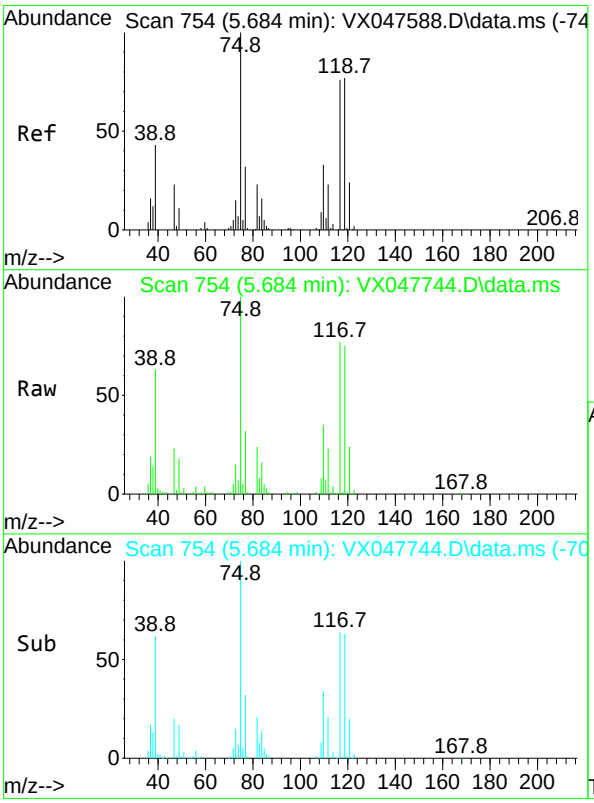
Ion	Ratio	Lower	Upper
113	100		
111	101.7	80.9	121.3
192	18.0	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

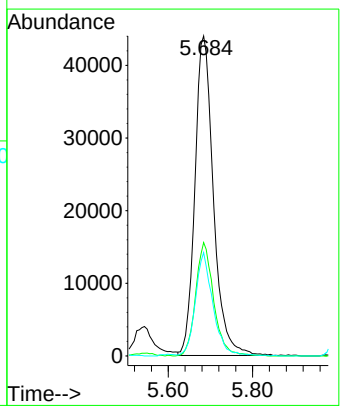
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

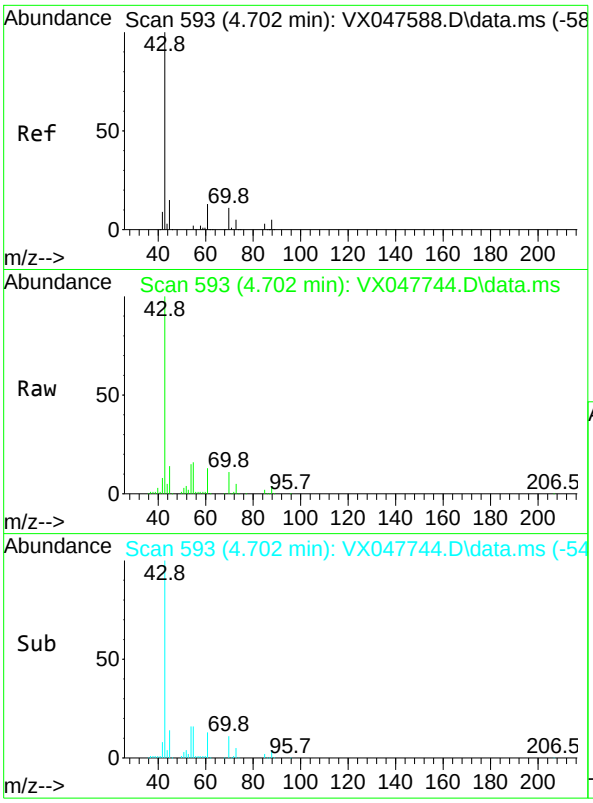


#36
1,1-Dichloropropene
Concen: 50.792 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 134570

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5

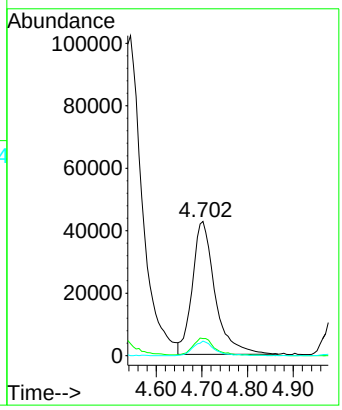




#37
Ethyl Acetate
Concen: 51.600 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 14638

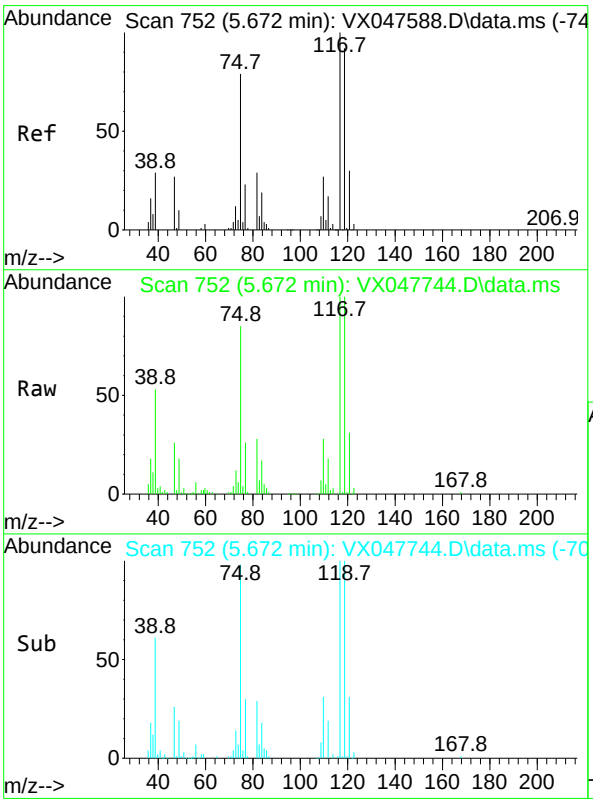
Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.7	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

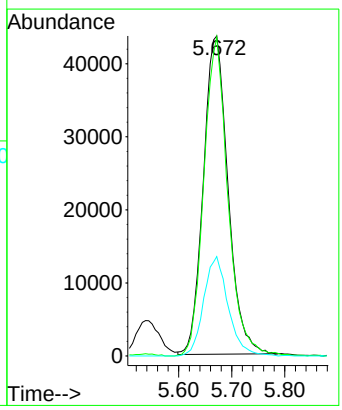
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

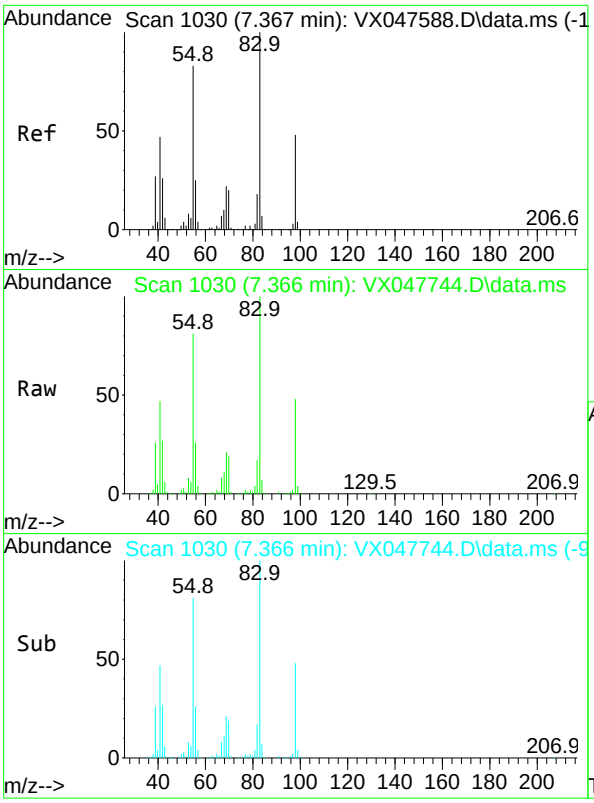


#38
Carbon Tetrachloride
Concen: 49.026 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 141128

Ion	Ratio	Lower	Upper
117	100		
119	100.0	73.4	110.2
121	31.2	23.8	35.6

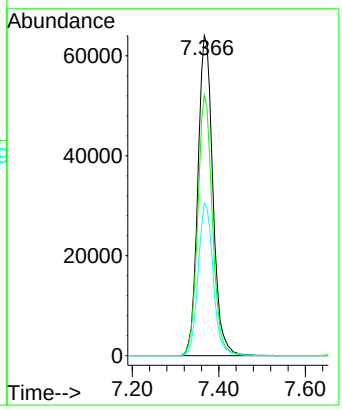




#39
Methylcyclohexane
Concen: 51.142 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 15380

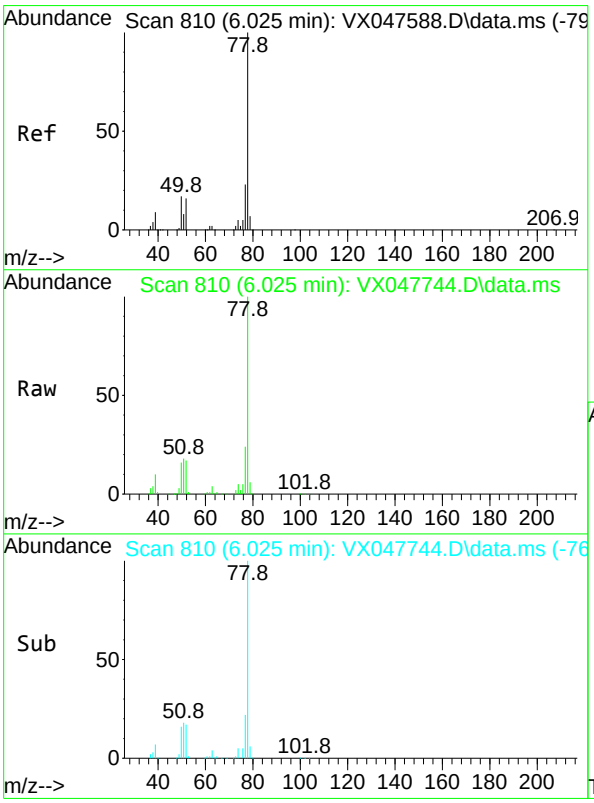
Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	47.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

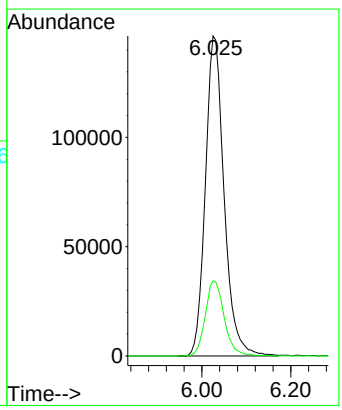
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

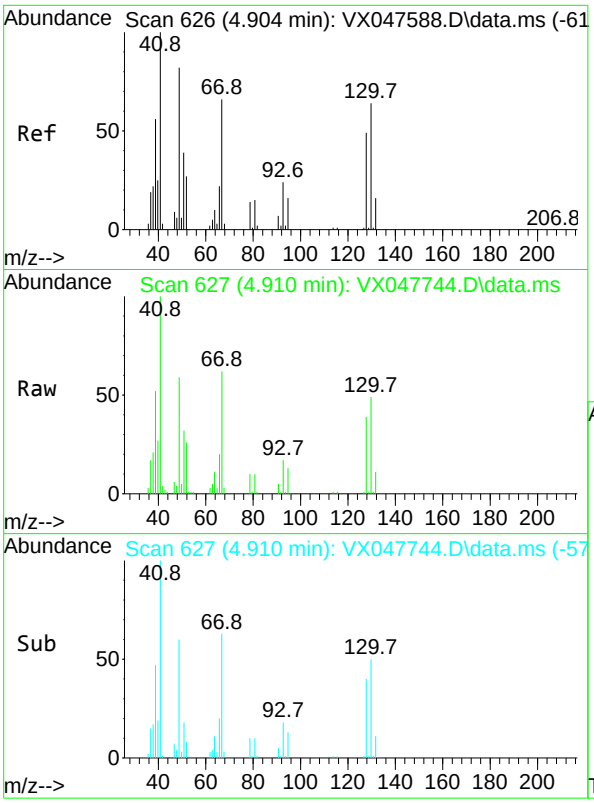


#40
Benzene
Concen: 53.282 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 78 Resp: 428760

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

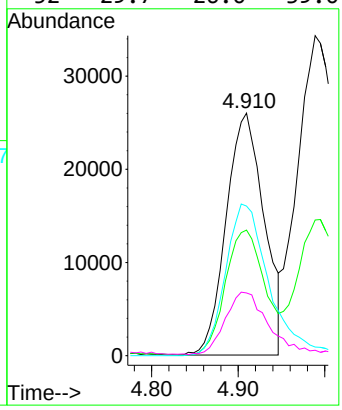




#41
Methacrylonitrile
Concen: 54.104 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 7923

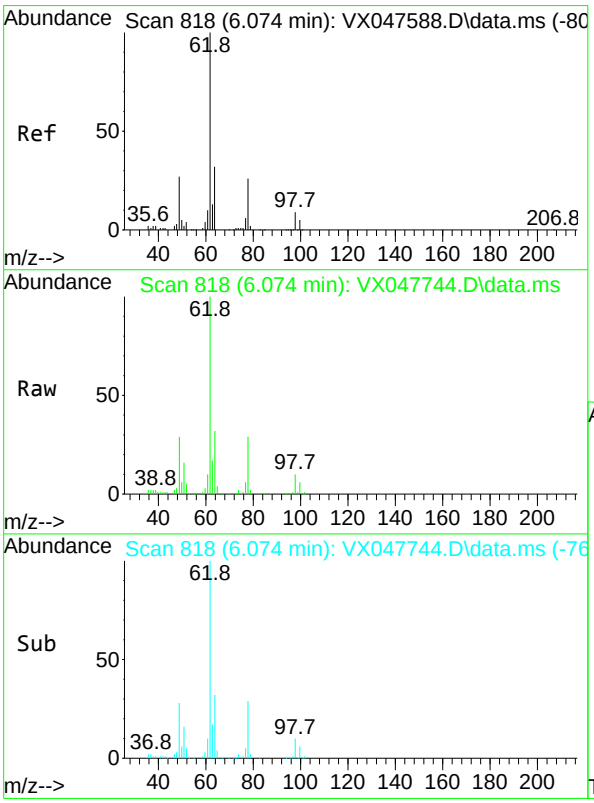
Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	71.6	58.6	87.8
52	29.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

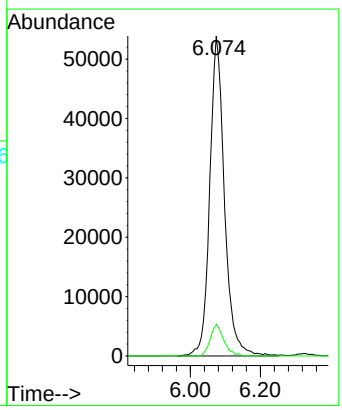
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

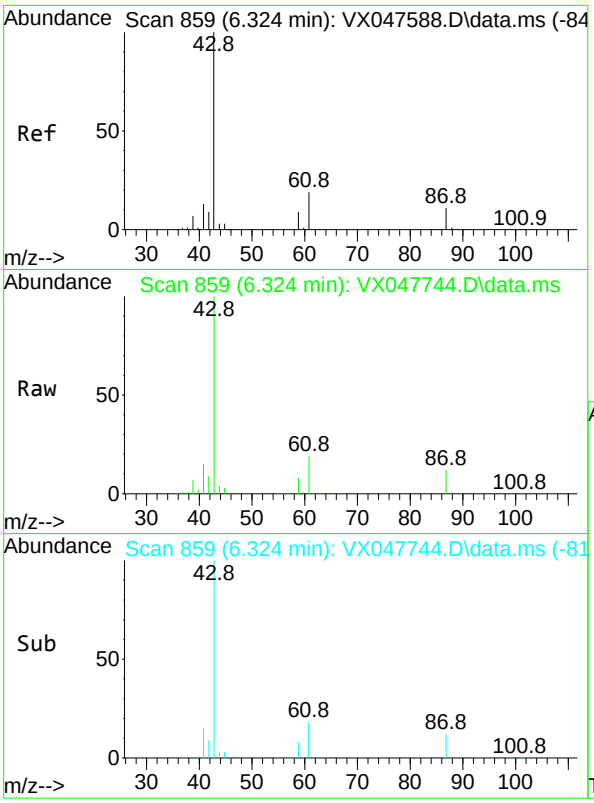


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 157471

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0

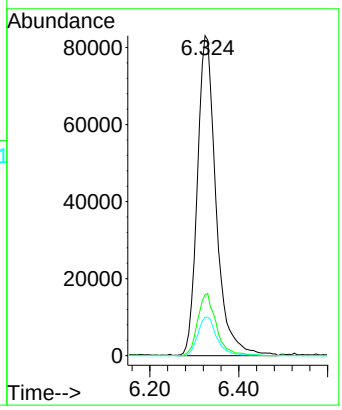




#43
Isopropyl Acetate
Concen: 52.327 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 24345

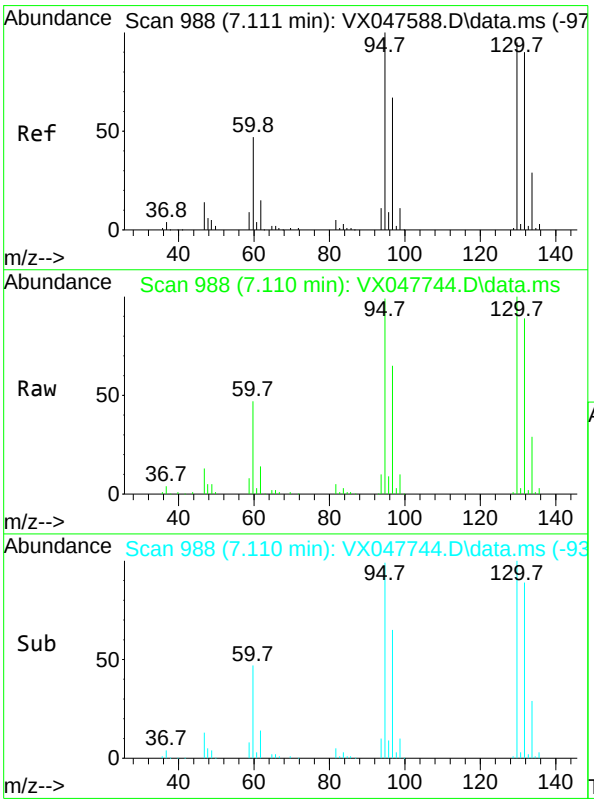
Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.2	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

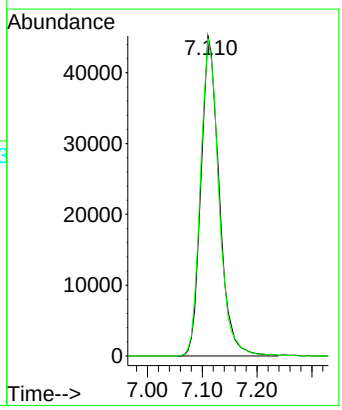
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

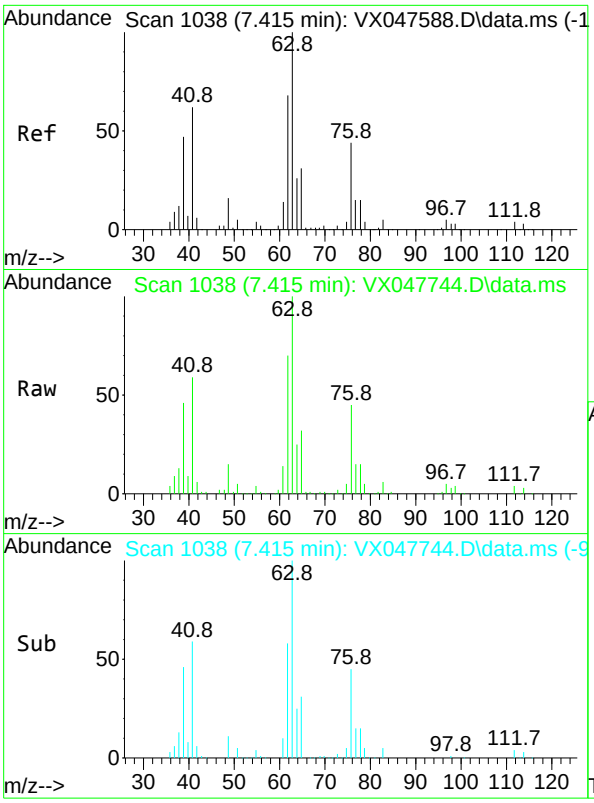


#44
Trichloroethene
Concen: 53.576 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:130 Resp: 104230

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	210.8

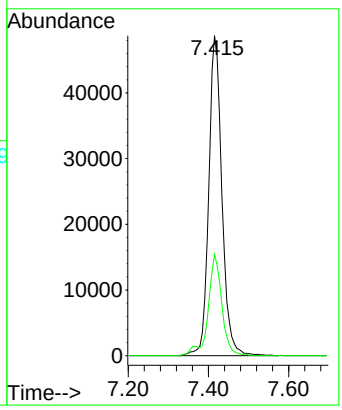




#45
1,2-Dichloropropane
Concen: 53.818 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 11089

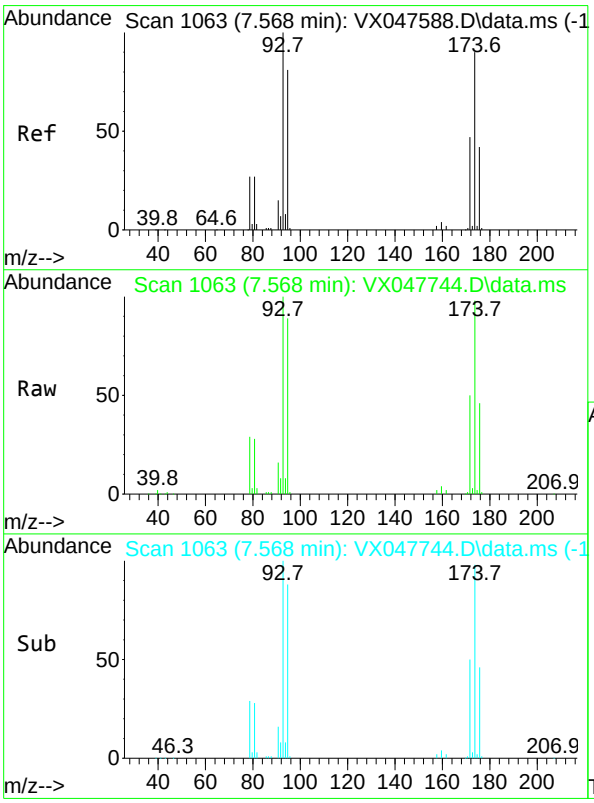
Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

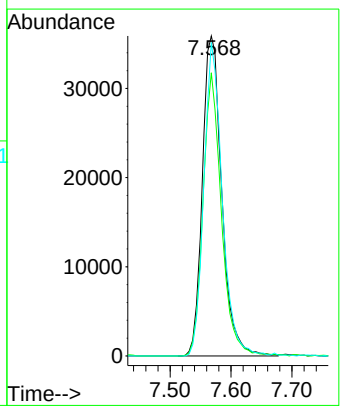
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

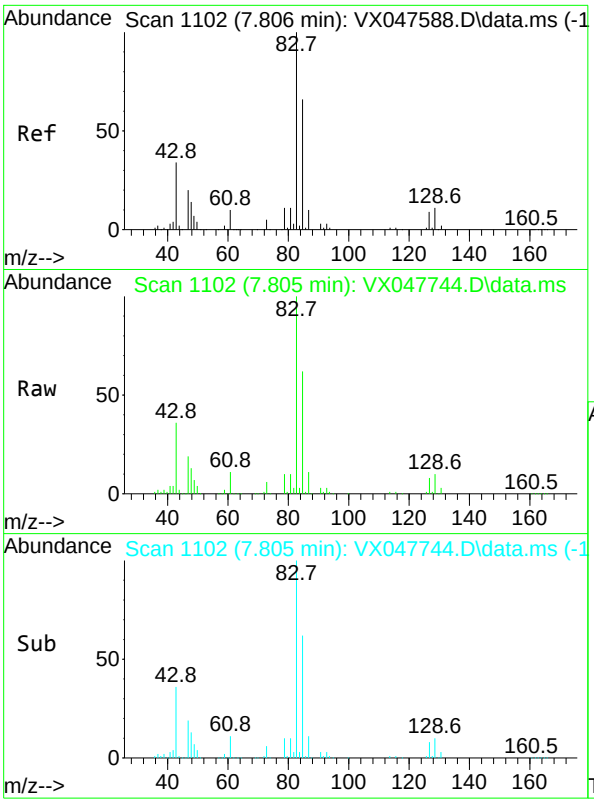


#46
Dibromomethane
Concen: 53.104 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 93 Resp: 79627

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.0	97.6
174	92.5	71.6	107.4

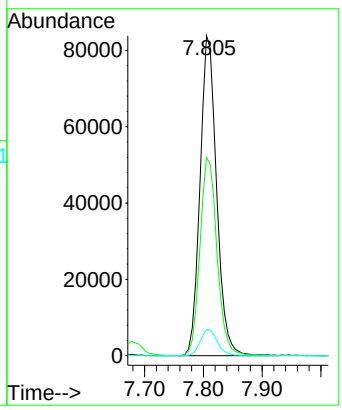




#47
Bromodichloromethane
Concen: 53.077 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 16423

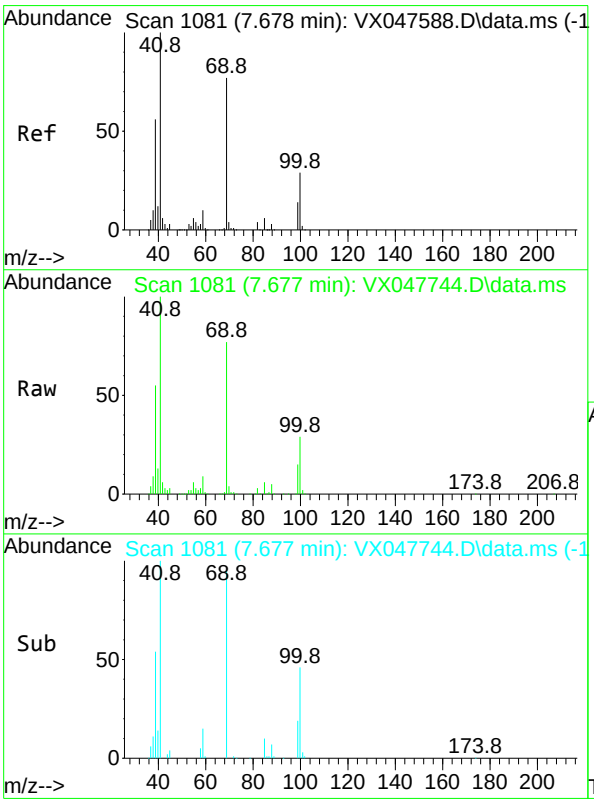
Ion	Ratio	Lower	Upper
83	100		
85	61.8	52.5	78.7
127	8.1	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

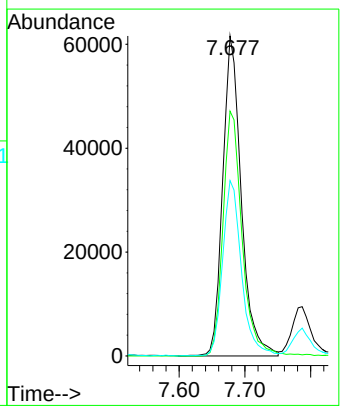
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

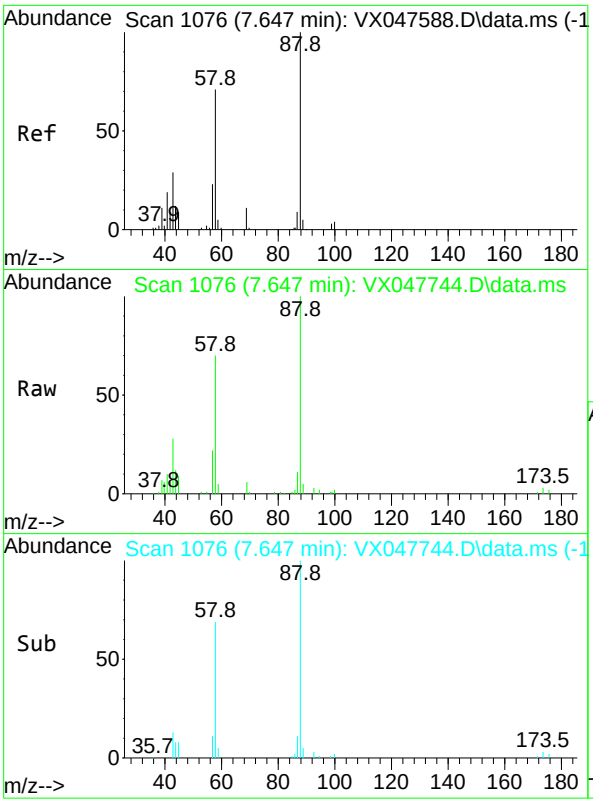


#48
Methyl methacrylate
Concen: 52.283 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 121164

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.7	45.8	68.6





#49
1,4-Dioxane
Concen: 1196.046 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

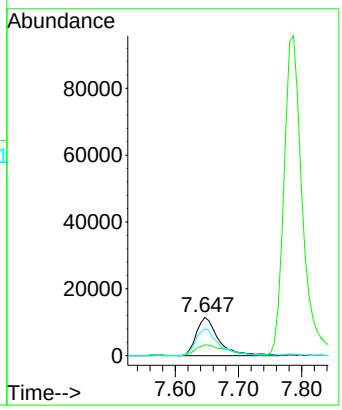
Tgt Ion: 88 Resp: 2801

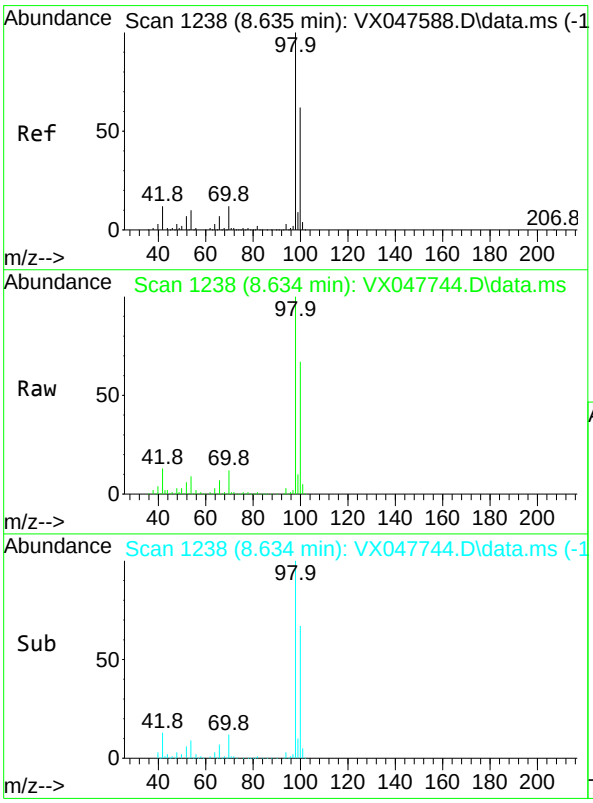
Ion	Ratio	Lower	Upper
88	100		
43	39.5	30.2	45.2
58	74.0	59.5	89.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

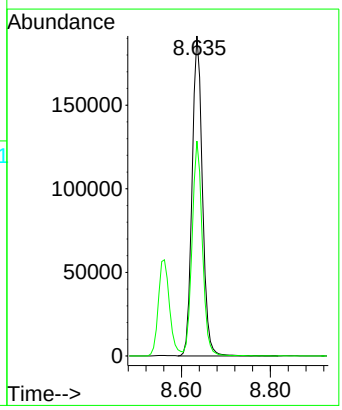


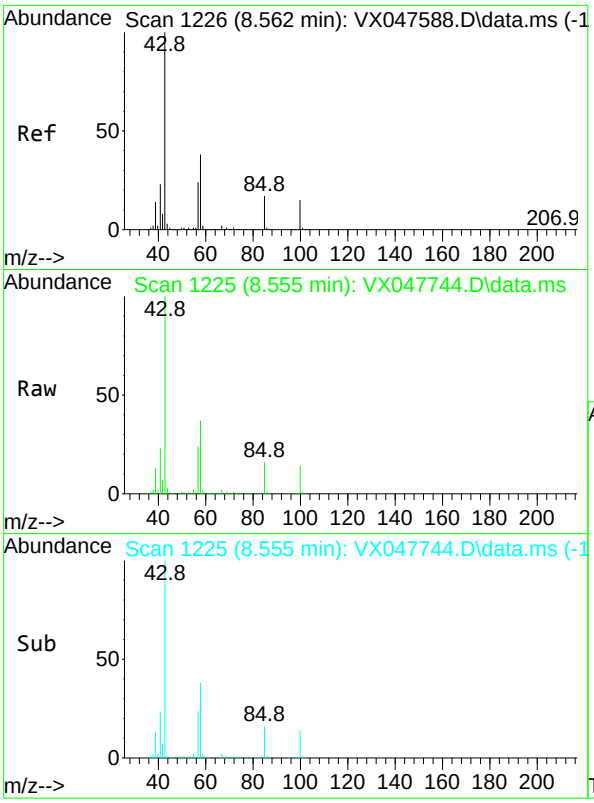


#50
Toluene-d8
Concen: 49.087 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 98 Resp: 307967

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

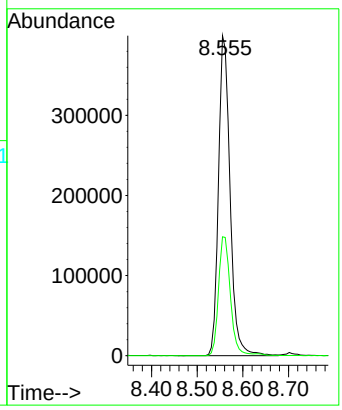




#51
4-Methyl-2-Pentanone
Concen: 272.809 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 70372

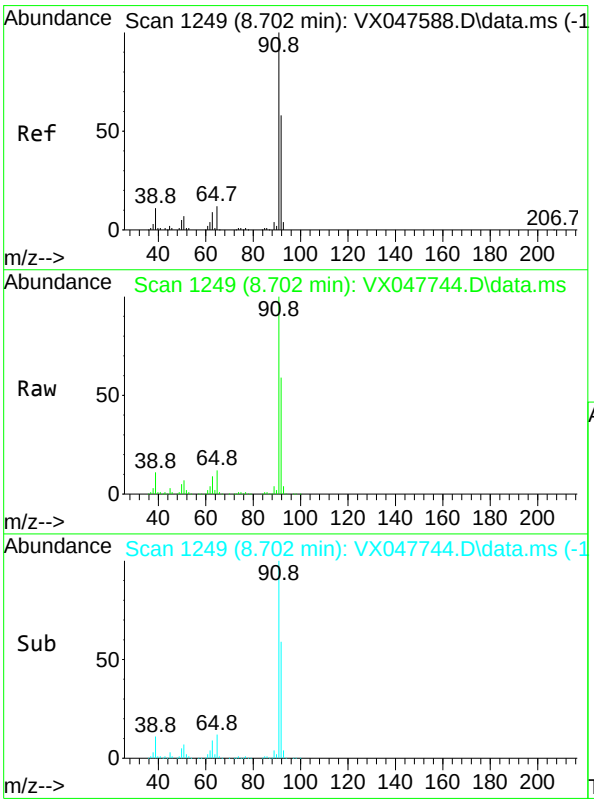
Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

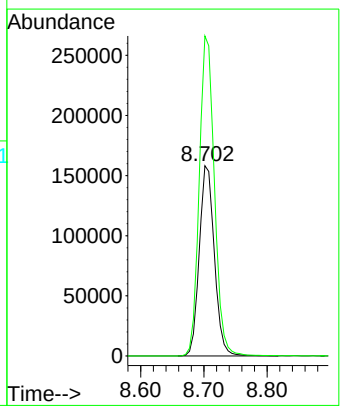
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

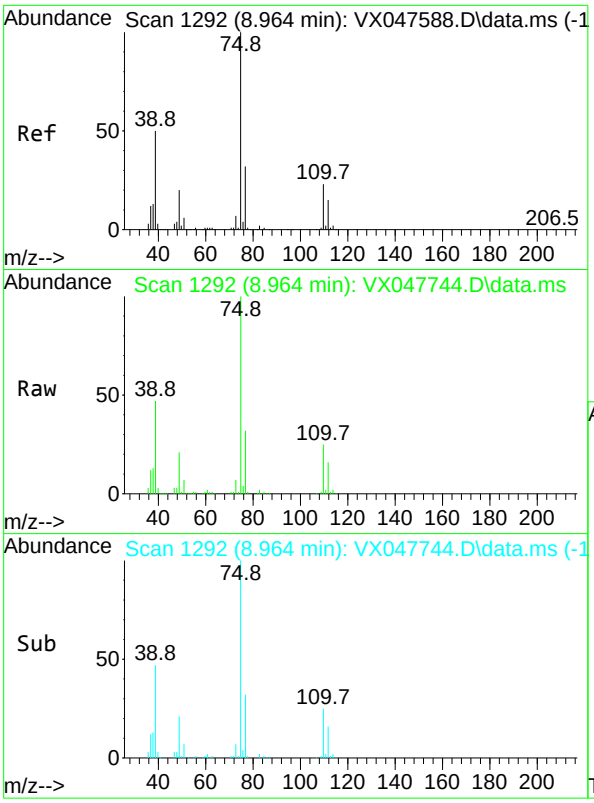


#52
Toluene
Concen: 53.113 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 92 Resp: 263320

Ion	Ratio	Lower	Upper
92	100		
91	169.0	137.1	205.7

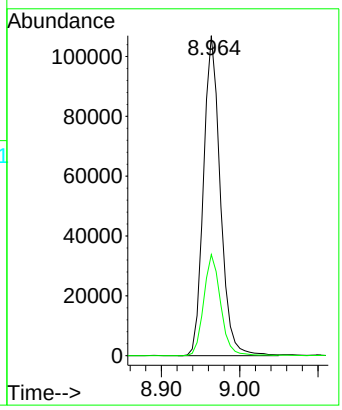




#53
t-1,3-Dichloropropene
Concen: 50.499 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 15938

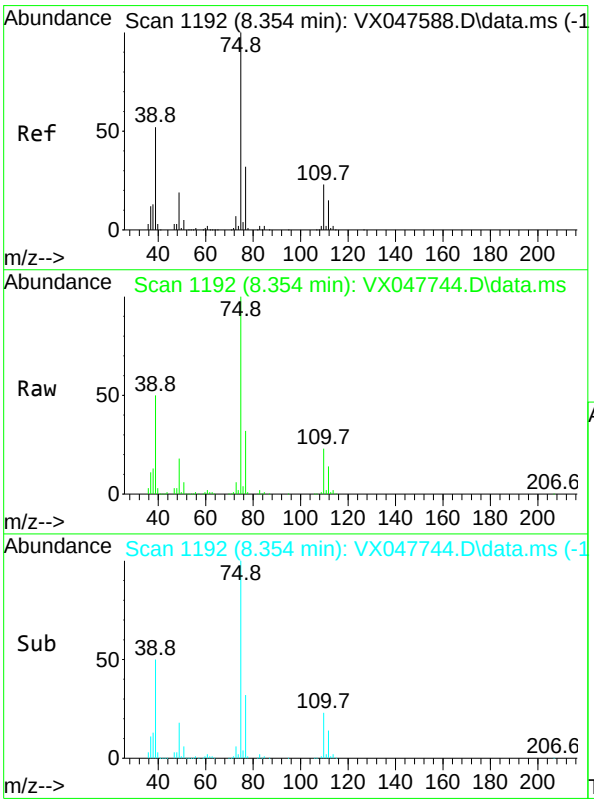
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

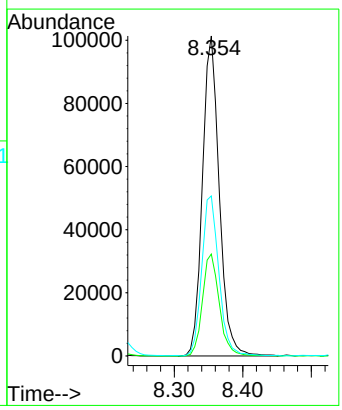
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

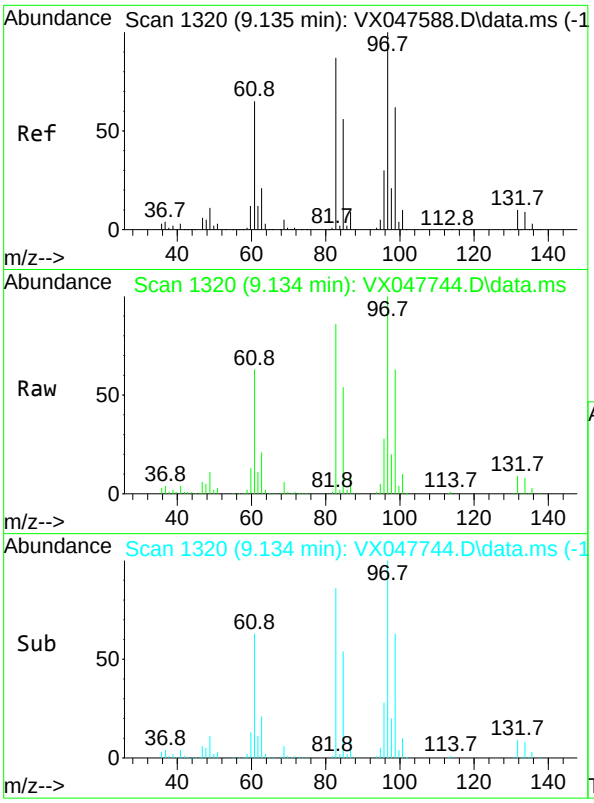


#54
cis-1,3-Dichloropropene
Concen: 51.421 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 173466

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	49.8	41.4	62.2

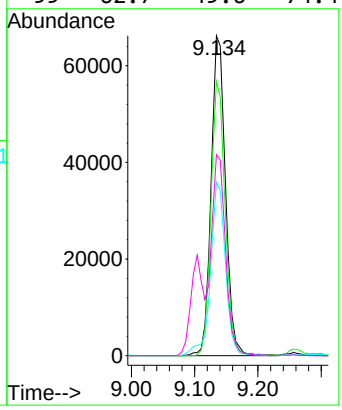




#55
1,1,2-Trichloroethane
Concen: 54.692 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 97 Resp: 10455

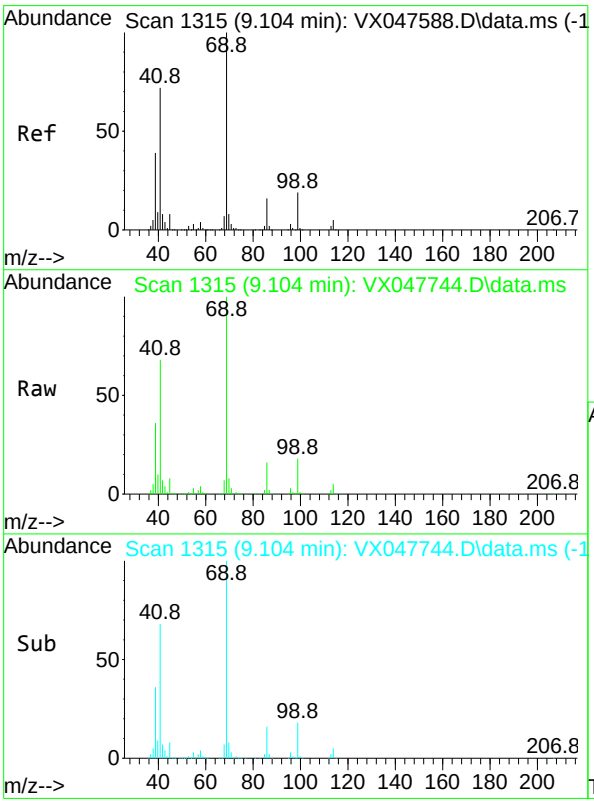
Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	54.2	45.0	67.6
99	62.7	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

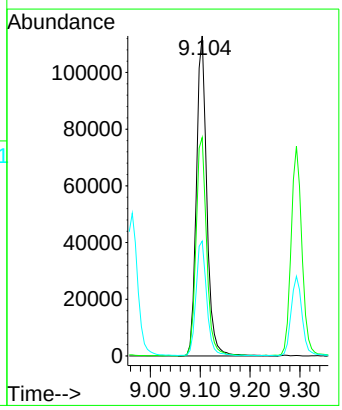
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

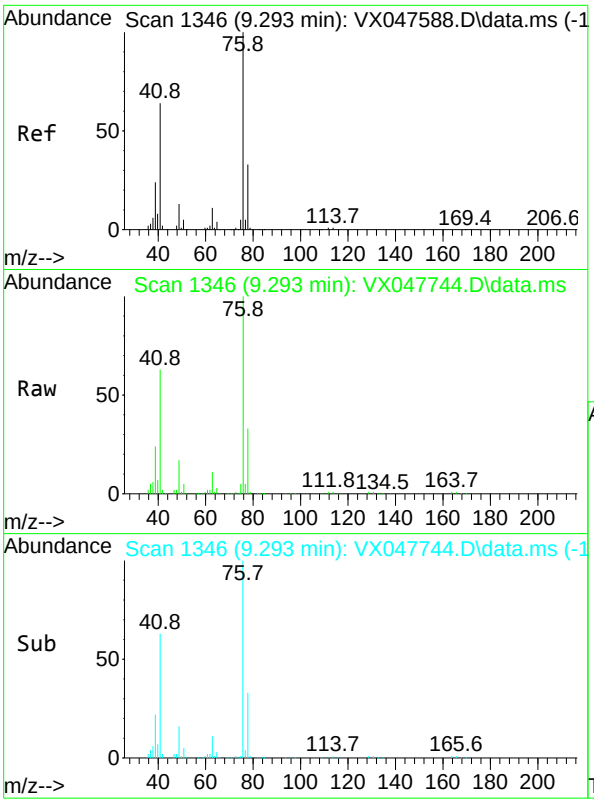


#56
Ethyl methacrylate
Concen: 54.448 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 69 Resp: 163467

Ion	Ratio	Lower	Upper
69	100		
41	69.6	58.6	87.8
39	36.6	31.5	47.3

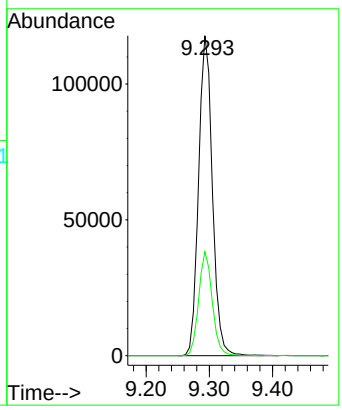




#57
1,3-Dichloropropane
Concen: 54.560 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 76 Resp: 17917

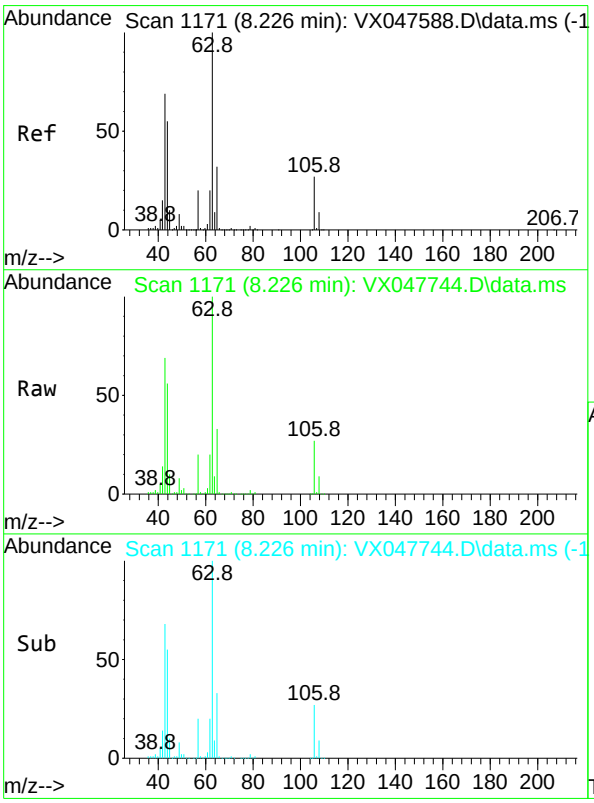
Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

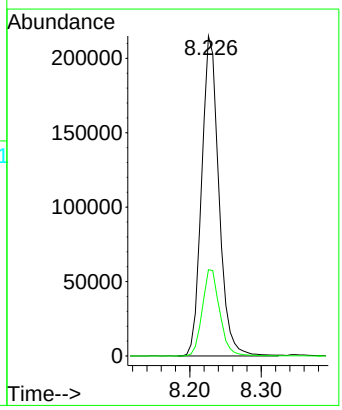
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

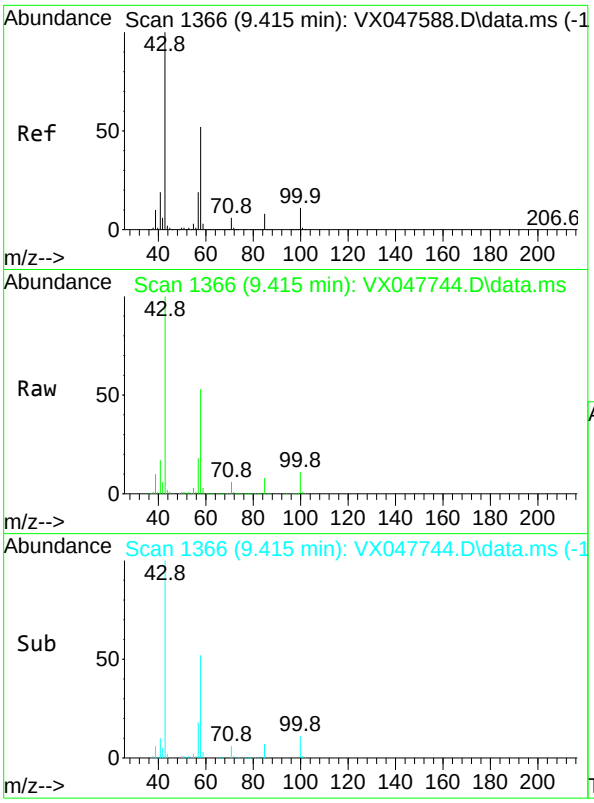


#58
2-Chloroethyl Vinyl ether
Concen: 251.172 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 360369

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9

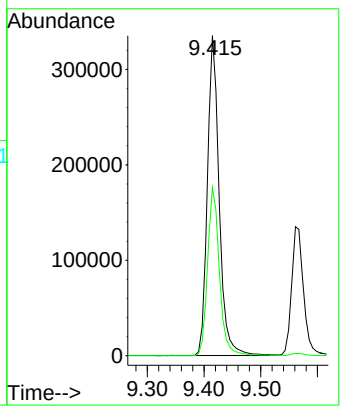




#59
2-Hexanone
Concen: 260.895 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 48334

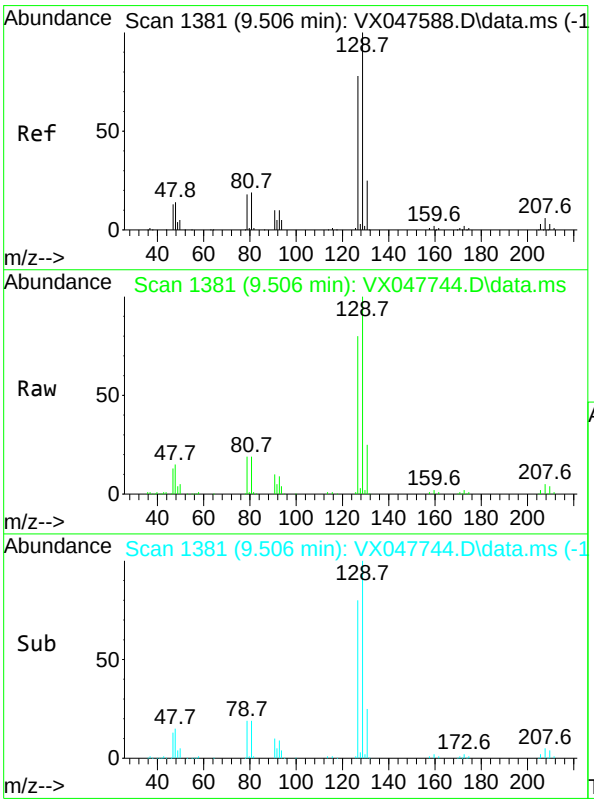
Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

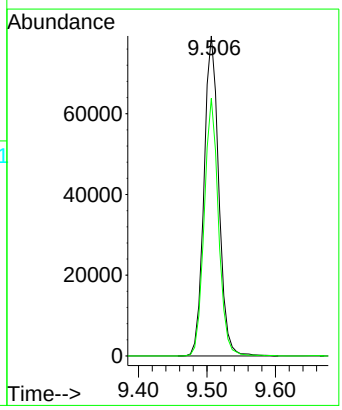
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

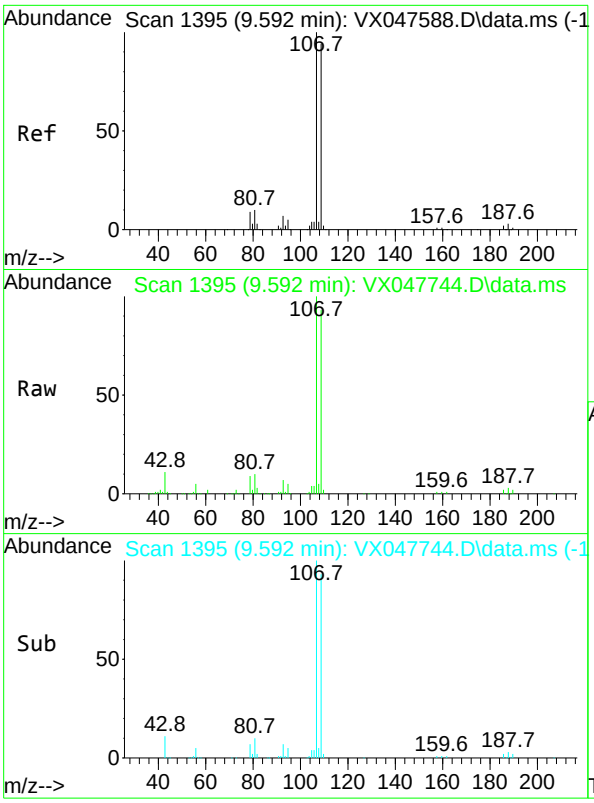


#60
Dibromochloromethane
Concen: 54.078 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:129 Resp: 119117

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.4	115.2

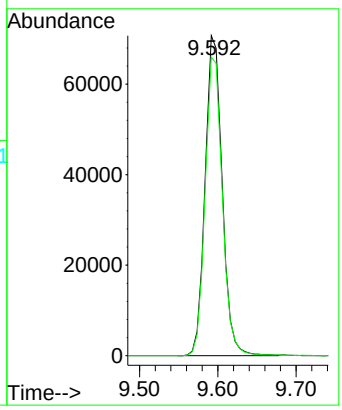




#61
1,2-Dibromoethane
Concen: 54.937 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:107 Resp: 10697

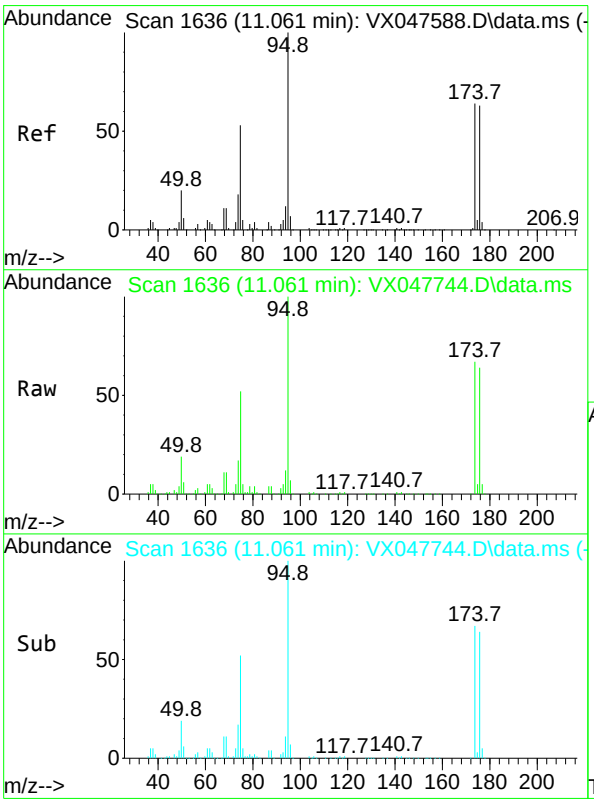
Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

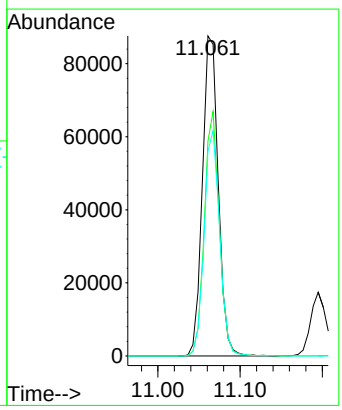
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

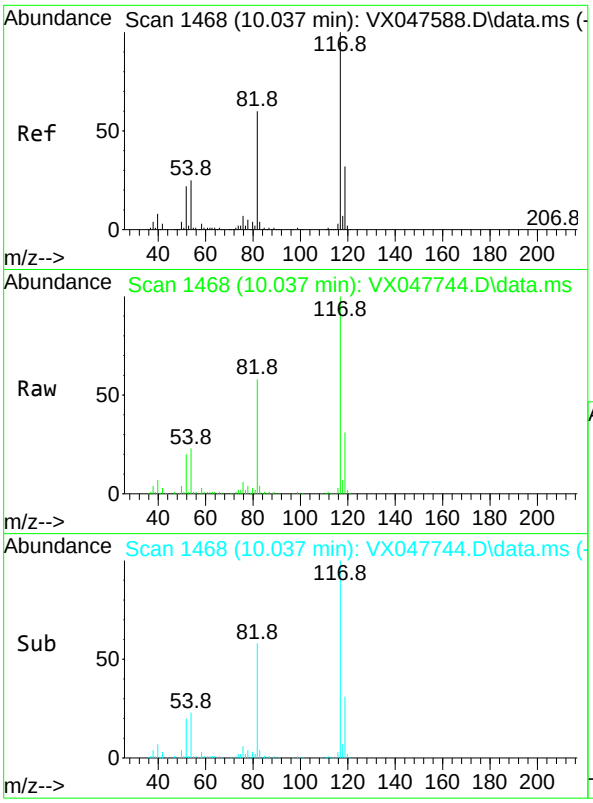


#62
4-Bromofluorobenzene
Concen: 49.307 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 95 Resp: 117402

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	69.0	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

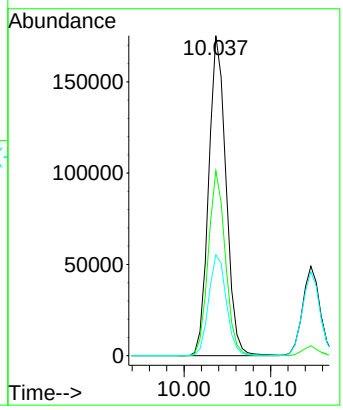
Tgt Ion:117 Resp: 24330

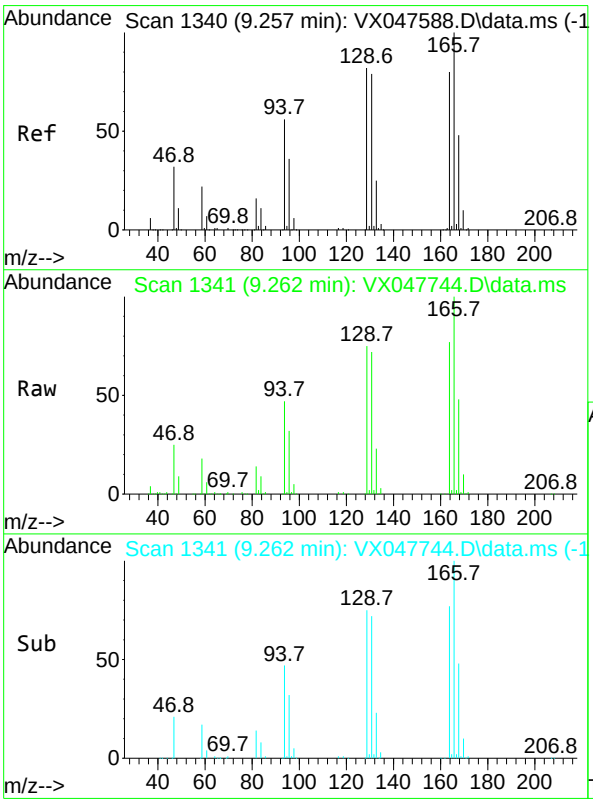
Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.5	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

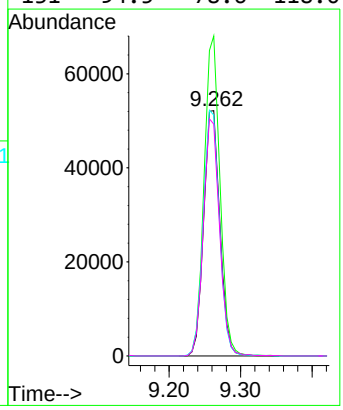


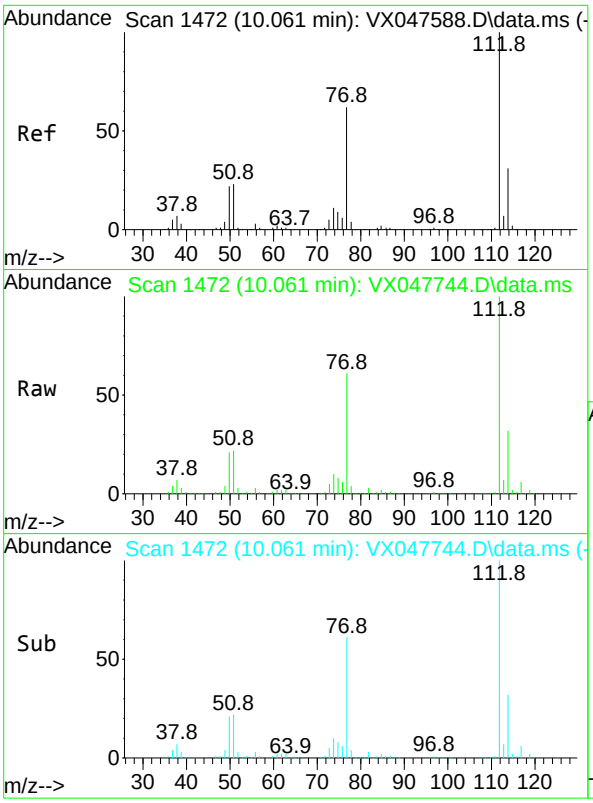


#64
Tetrachloroethene
Concen: 51.765 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:164 Resp: 82104

Ion	Ratio	Lower	Upper
164	100		
166	130.4	100.2	150.2
129	98.1	81.8	122.6
131	94.5	78.6	118.0

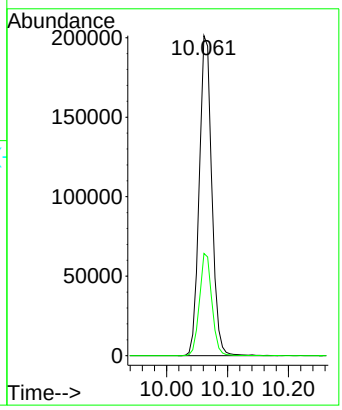




#65
Chlorobenzene
Concen: 52.159 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:112 Resp: 28830

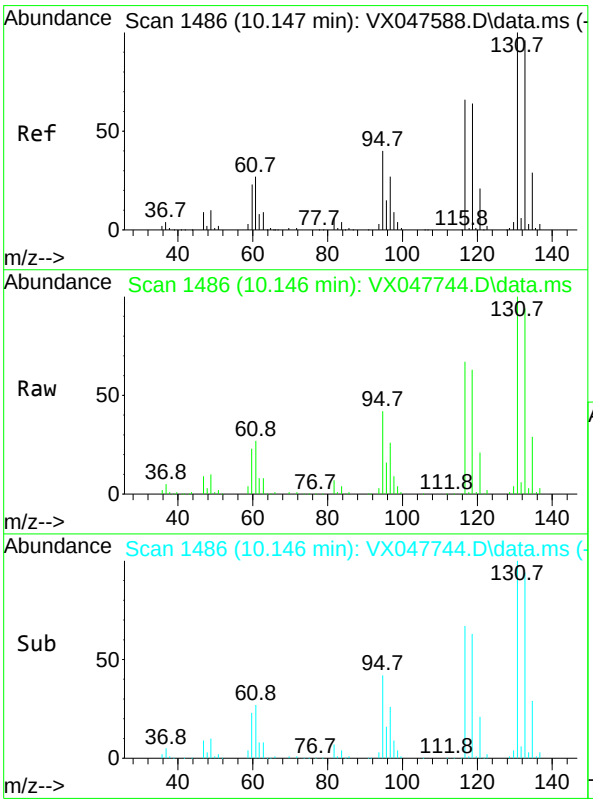
Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

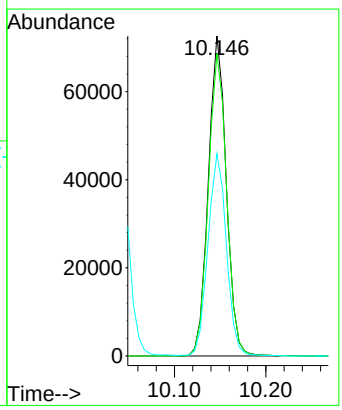
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

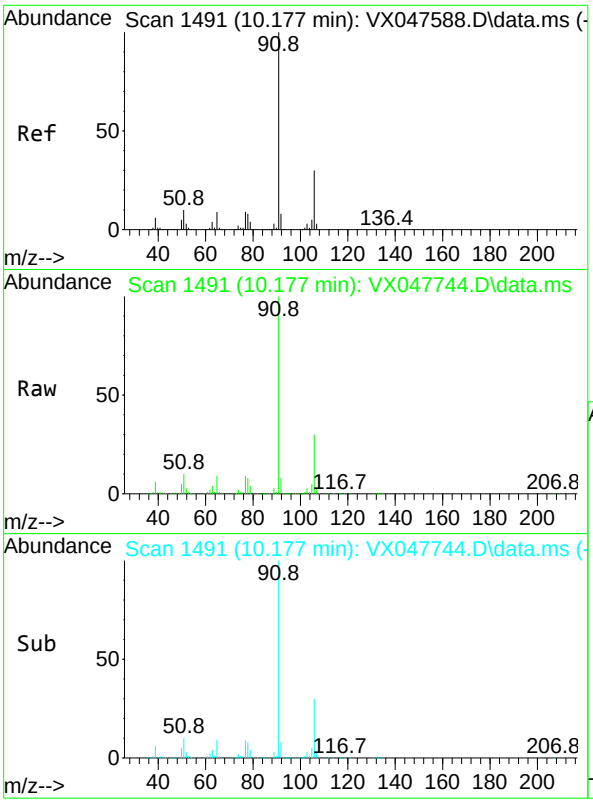


#66
1,1,1,2-Tetrachloroethane
Concen: 51.810 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:131 Resp: 98820

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	65.2	32.0	96.0

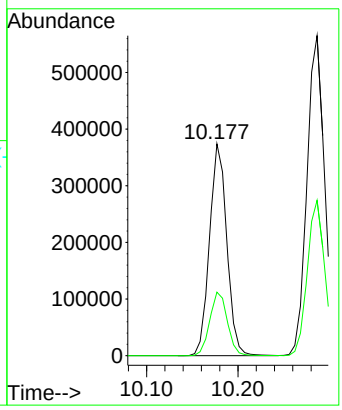




#67
Ethyl Benzene
Concen: 51.527 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 49142

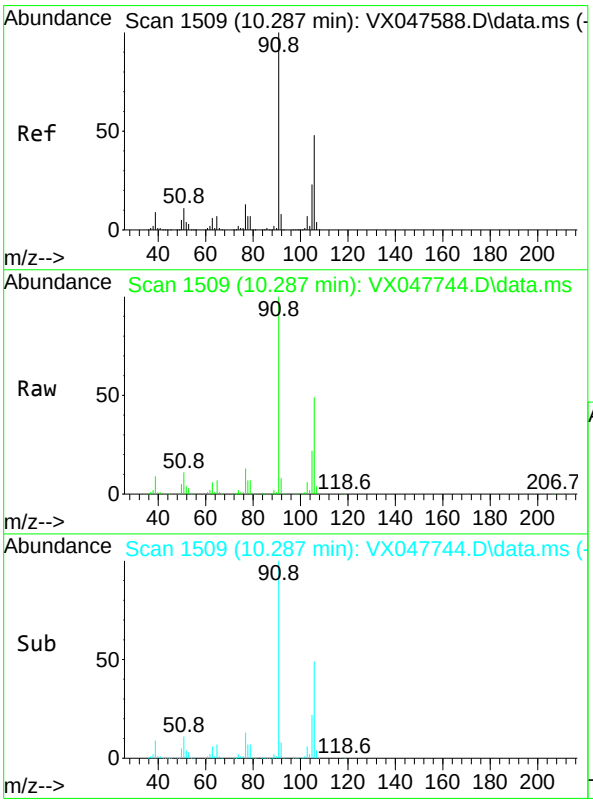
Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

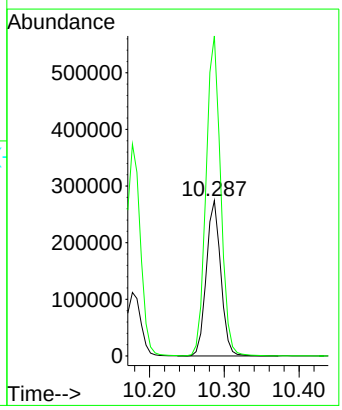
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

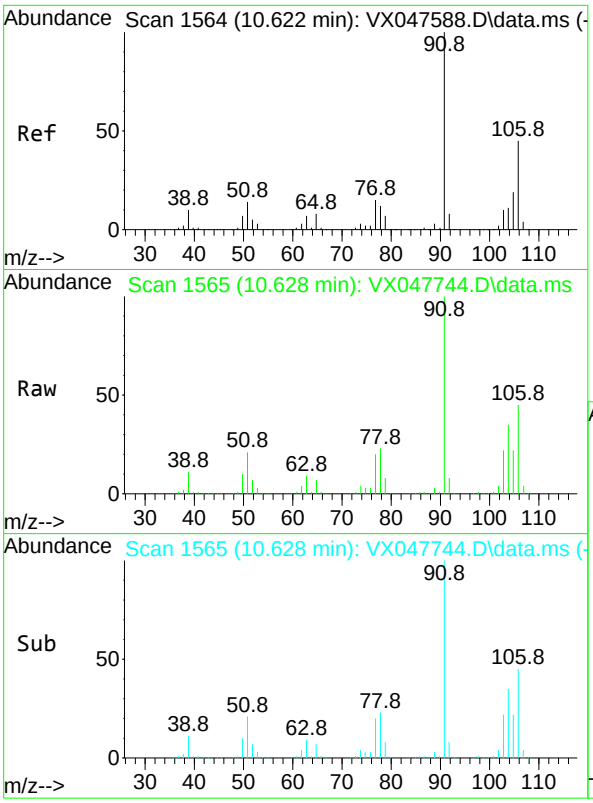


#68
m/p-Xylenes
Concen: 103.518 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:106 Resp: 367469

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.8	251.8

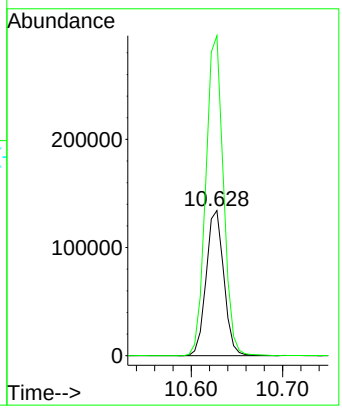




#69
o-Xylene
Concen: 52.511 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:106 Resp: 18029

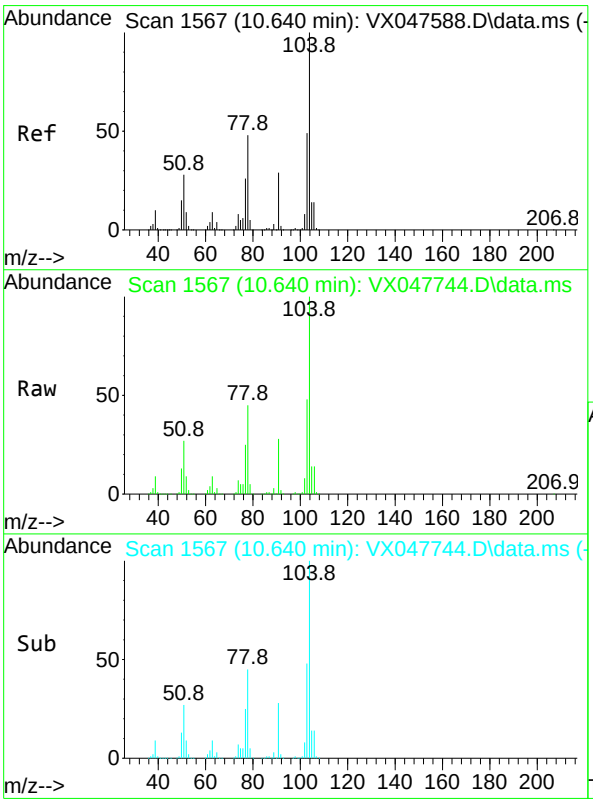
Ion	Ratio	Lower	Upper
106	100		
91	219.4	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

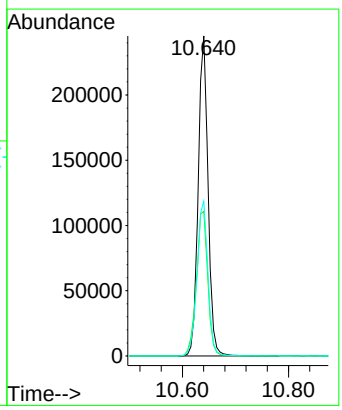
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

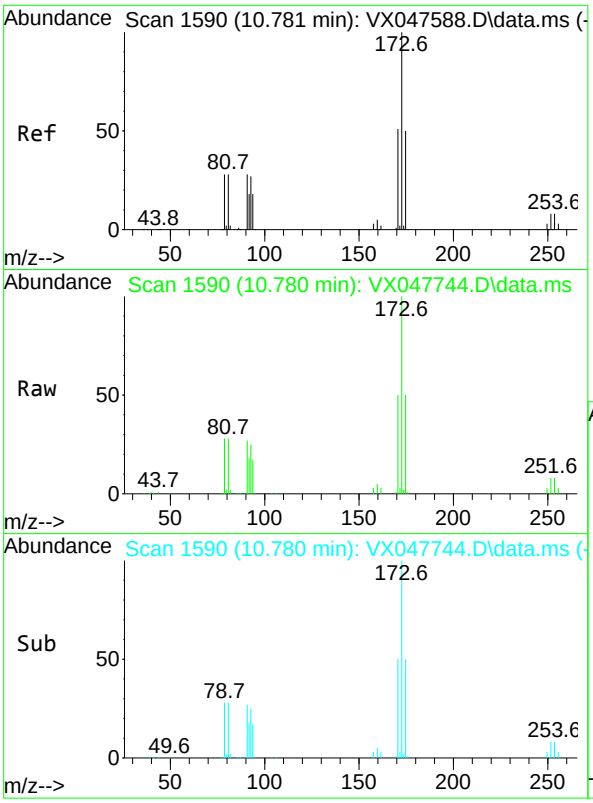


#70
Styrene
Concen: 52.779 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:104 Resp: 317529

Ion	Ratio	Lower	Upper
104	100		
78	52.2	43.1	64.7
103	53.6	43.1	64.7

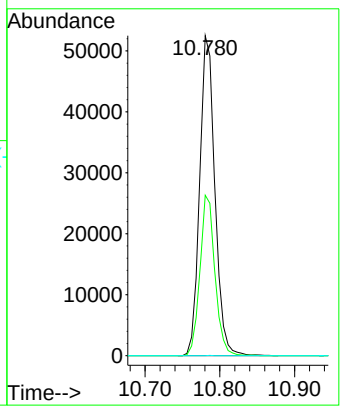




#71
Bromoform
Concen: 52.097 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:173 Resp: 7419

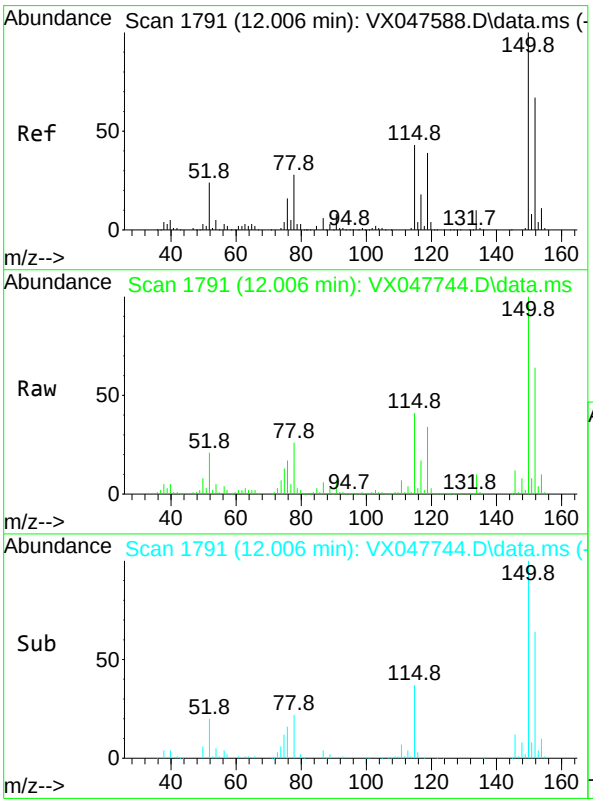
Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

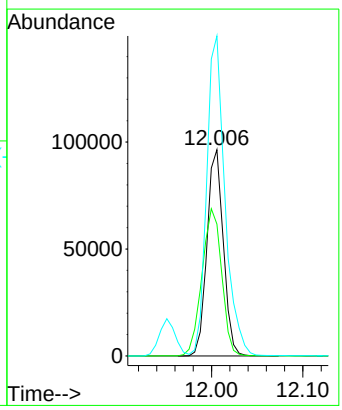
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

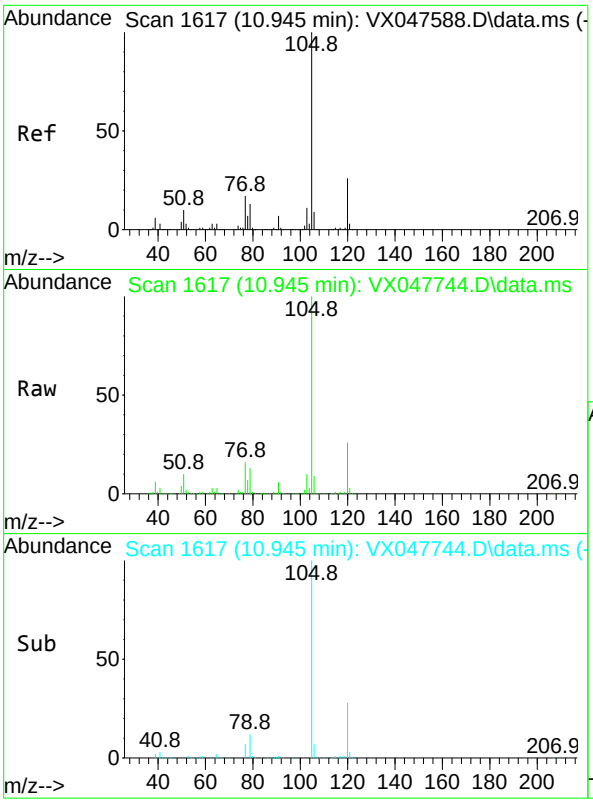


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:152 Resp: 119961

Ion	Ratio	Lower	Upper
152	100		
115	86.2	44.9	134.5
150	173.4	0.0	352.0

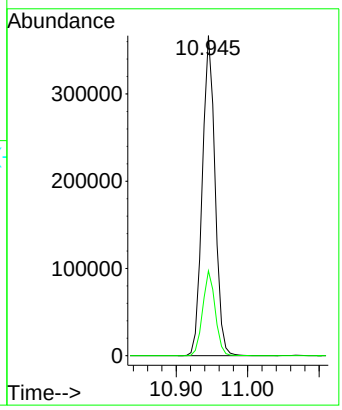




#73
Isopropylbenzene
Concen: 49.722 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 45347

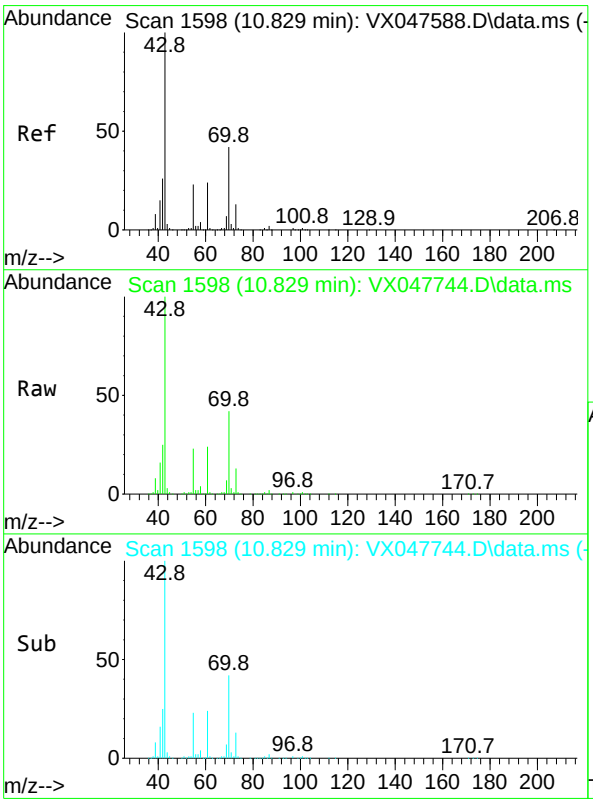
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

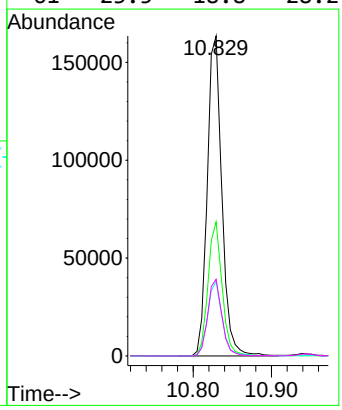
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

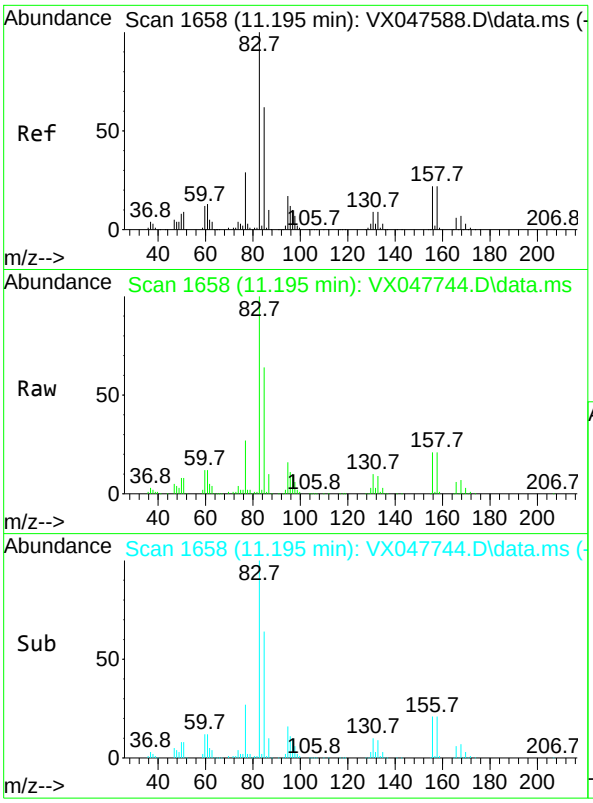


#74
N-amyl acetate
Concen: 50.685 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 210798

Ion	Ratio	Lower	Upper
43	100		
70	40.7	32.0	48.0
55	23.3	18.9	28.3
61	23.5	18.8	28.2

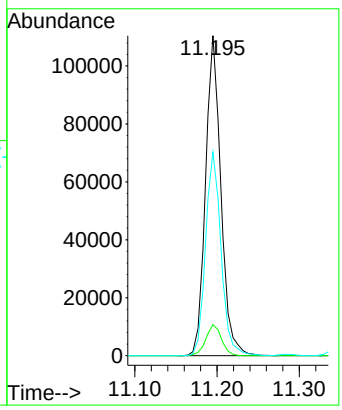




#75
1,1,2,2-Tetrachloroethane
Concen: 51.892 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 14318

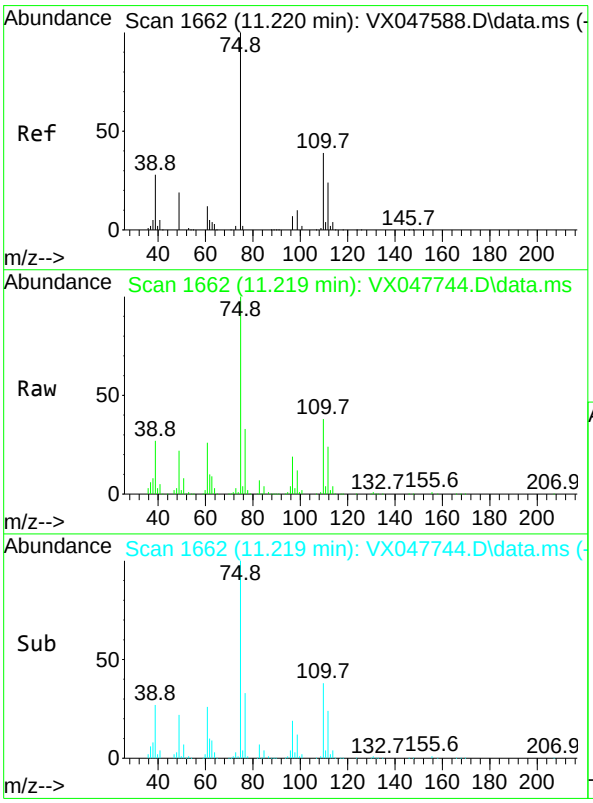
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

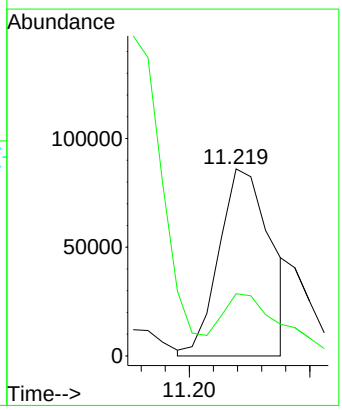
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

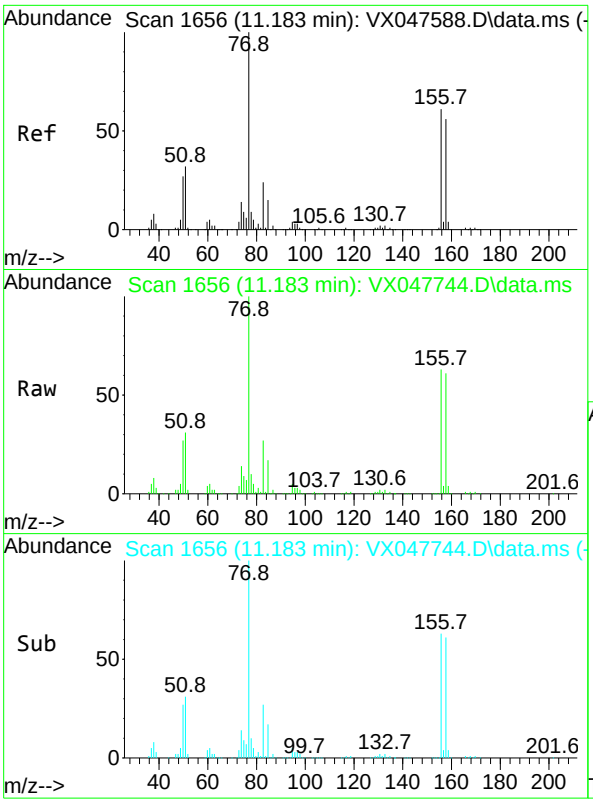


#76
1,2,3-Trichloropropane
Concen: 52.639 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 127852

Ion	Ratio	Lower	Upper
75	100		
77	38.3	18.8	56.4

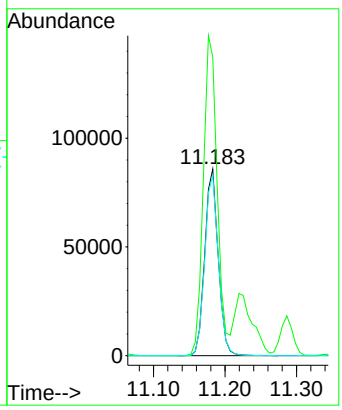




#77
Bromobenzene
Concen: 50.007 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:156 Resp: 11232

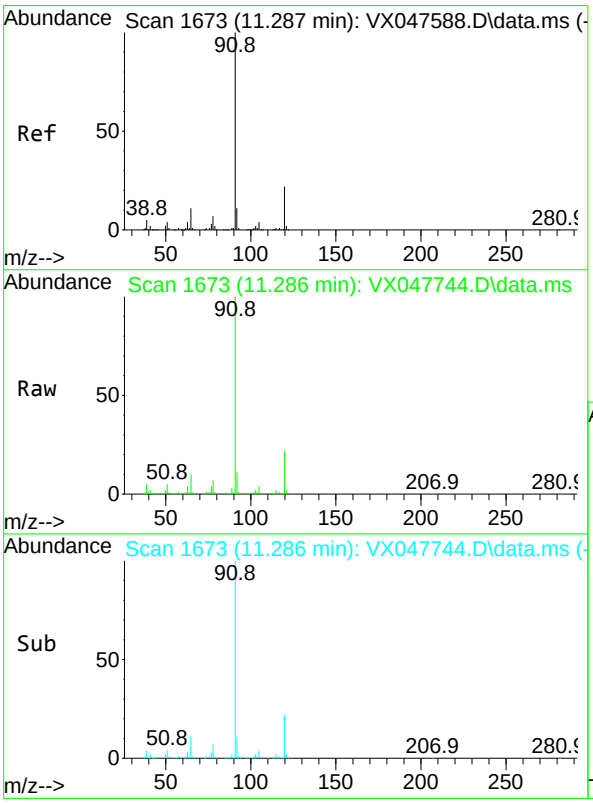
Ion	Ratio	Lower	Upper
156	100		
77	177.2	89.7	269.1
158	97.8	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

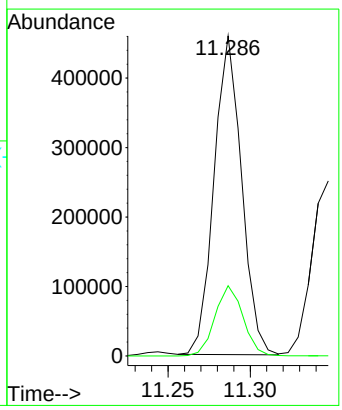
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

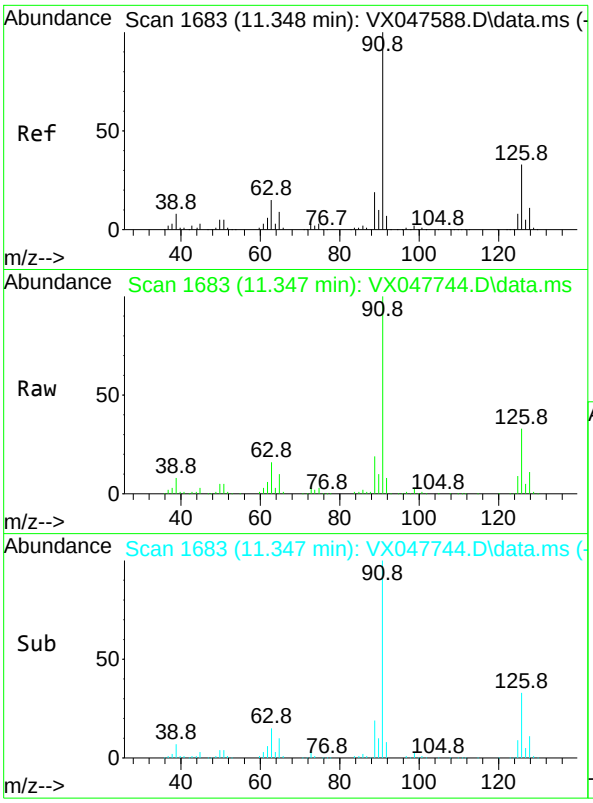


#78
n-propylbenzene
Concen: 49.483 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 533484

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1

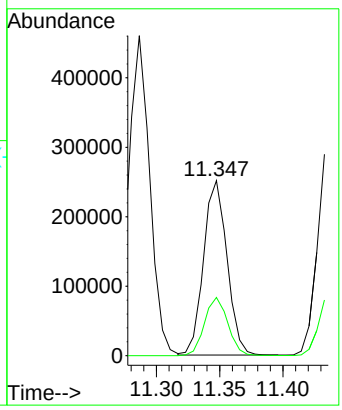




#79
2-Chlorotoluene
Concen: 49.069 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 32401

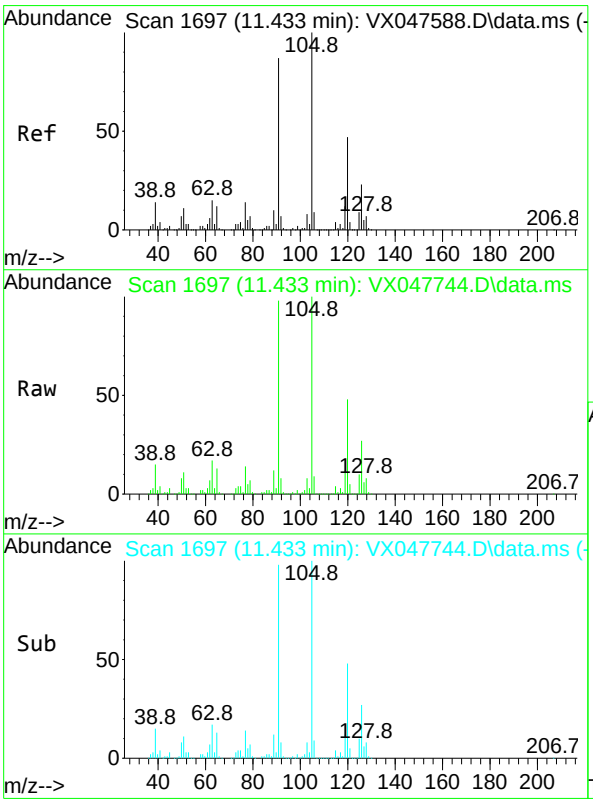
Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

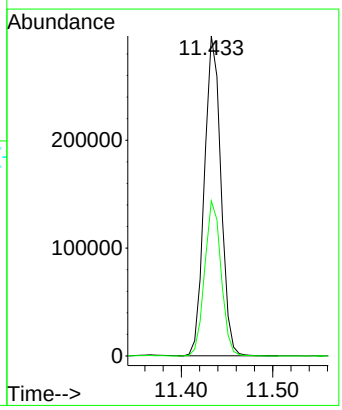
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

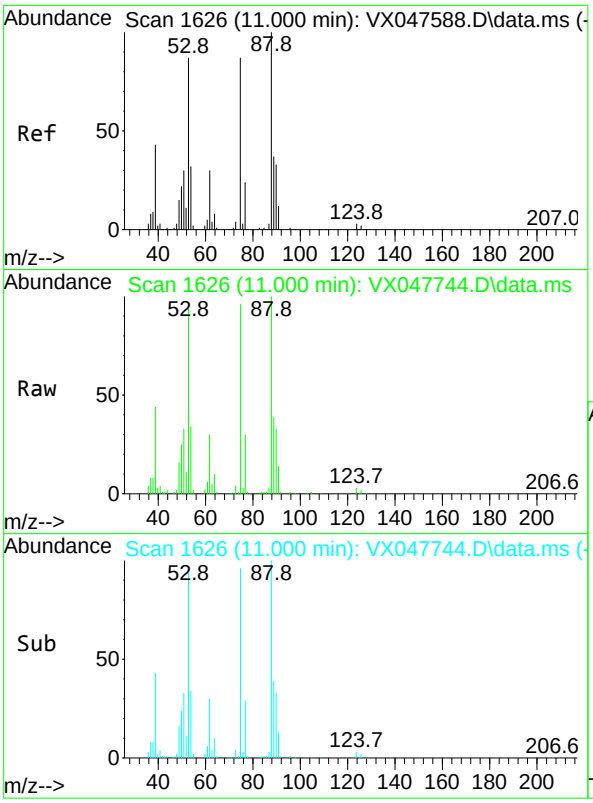


#80
1,3,5-Trimethylbenzene
Concen: 49.437 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 370433

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.6	70.8

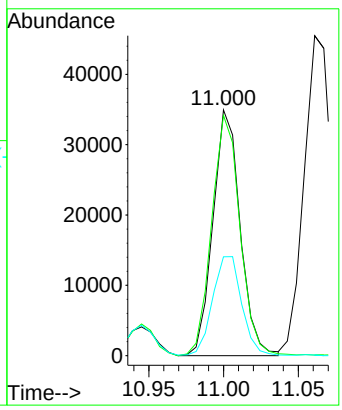




#81
trans-1,4-Dichloro-2-butene
Concen: 46.433 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 4422

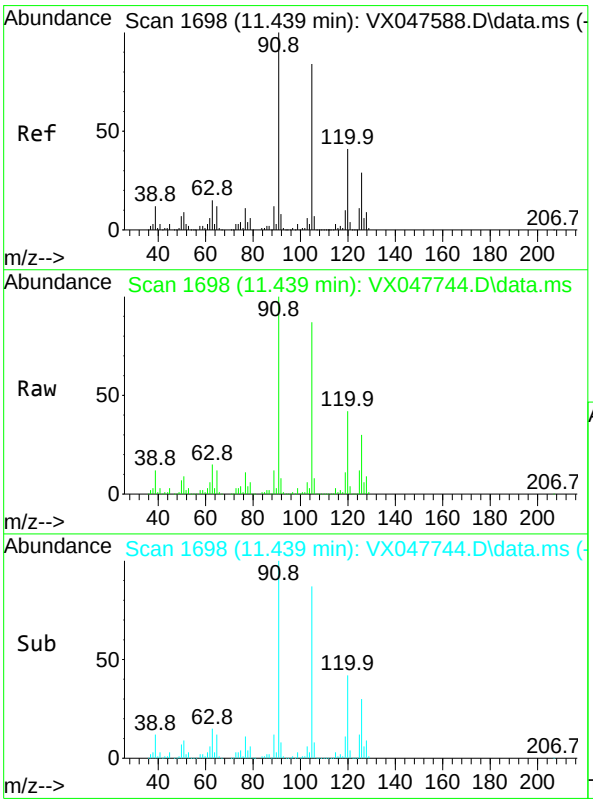
Ion	Ratio	Lower	Upper
75	100		
53	101.6	83.4	125.2
89	42.9	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

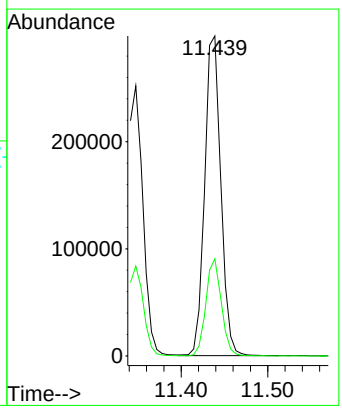
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

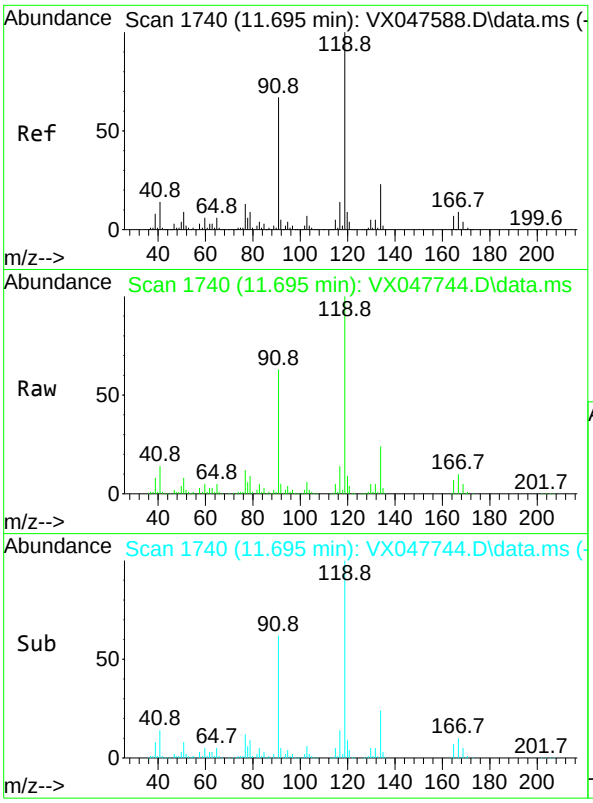


#82
4-Chlorotoluene
Concen: 49.610 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 386898

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.2	42.6

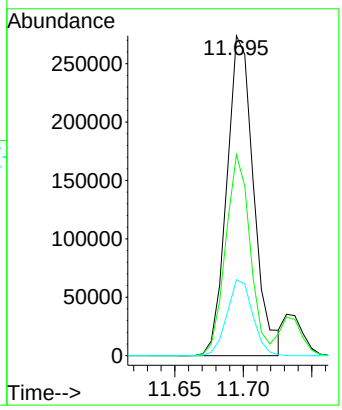




#83
tert-Butylbenzene
Concen: 48.704 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:119 Resp: 37358

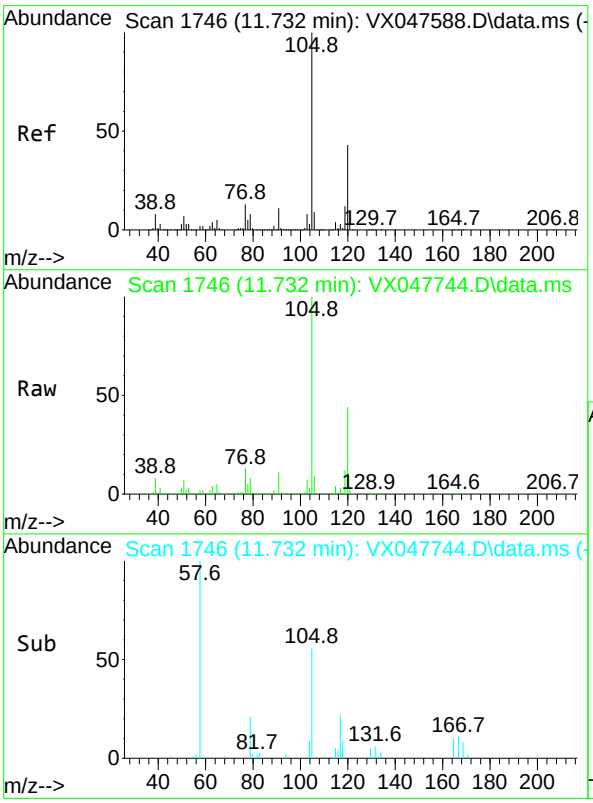
Ion	Ratio	Lower	Upper
119	100		
91	57.7	29.6	88.8
134	22.8	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

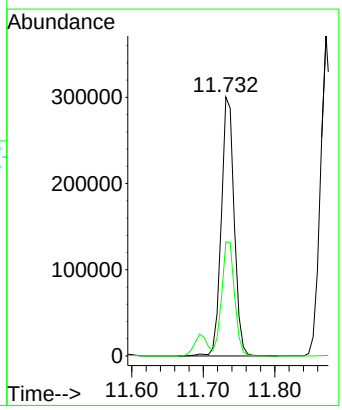
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

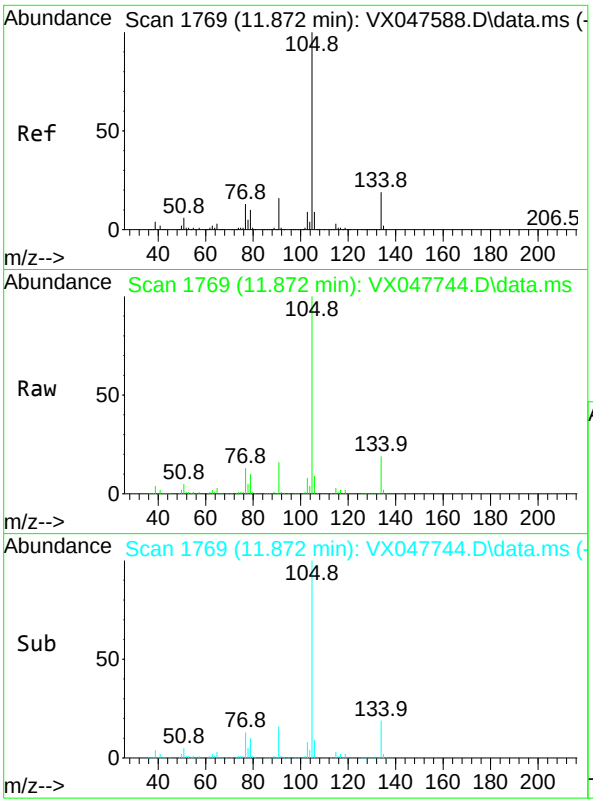


#84
1,2,4-Trimethylbenzene
Concen: 49.591 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 376730

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1

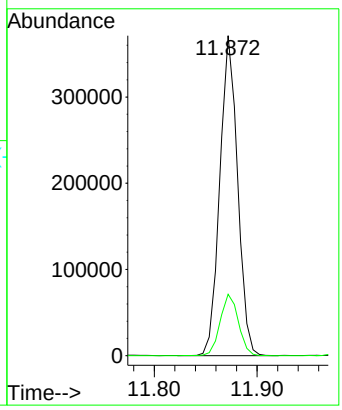




#85
sec-Butylbenzene
Concen: 48.878 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 44532

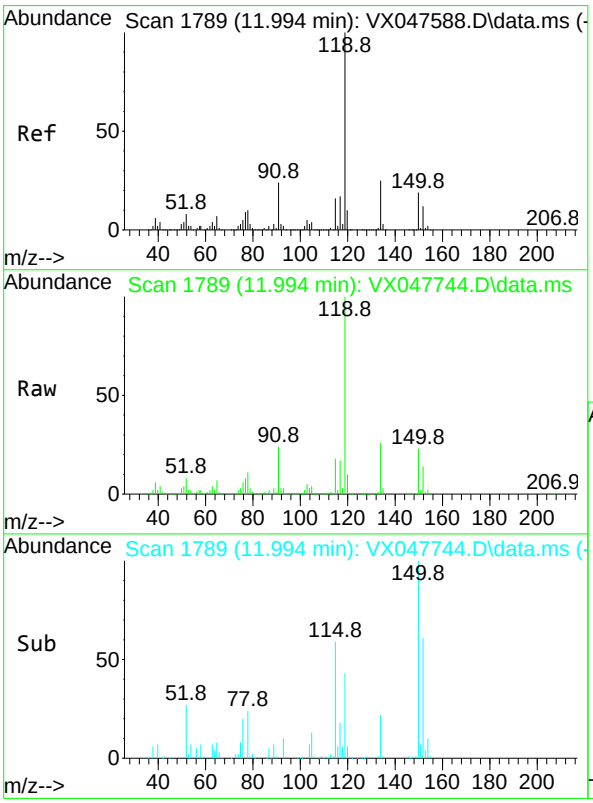
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

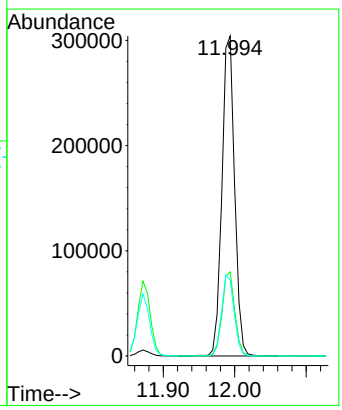
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

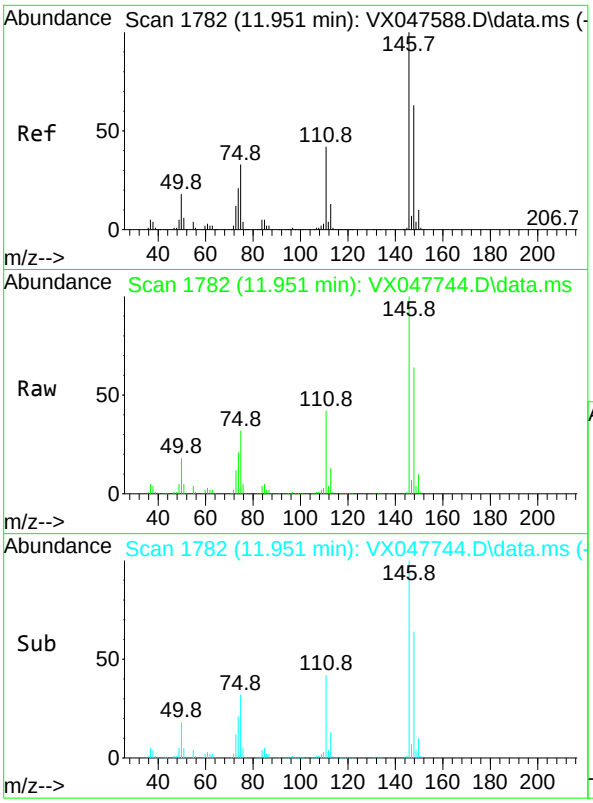


#86
p-Isopropyltoluene
Concen: 48.479 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:119 Resp: 373936

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.3	12.6	37.6

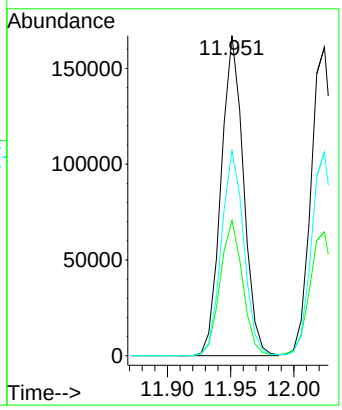




#87
1,3-Dichlorobenzene
Concen: 49.286 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:146 Resp: 20563

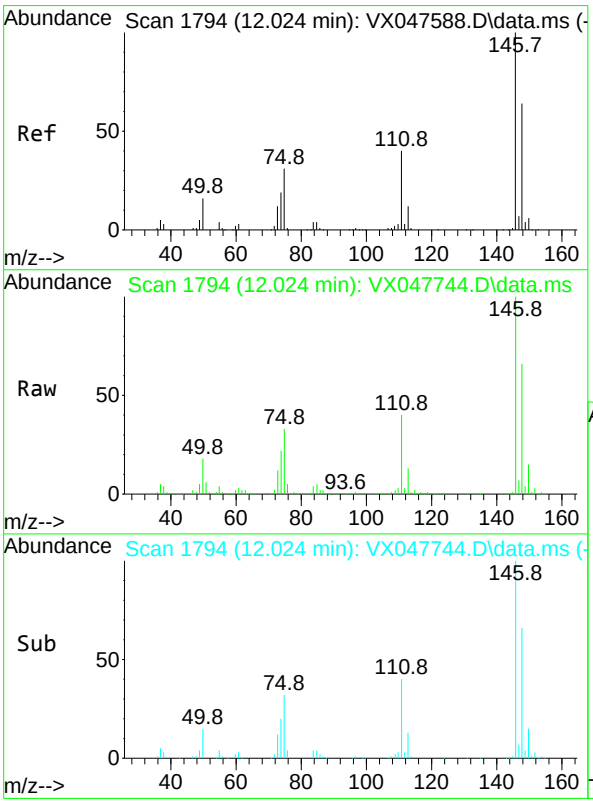
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	64.2	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

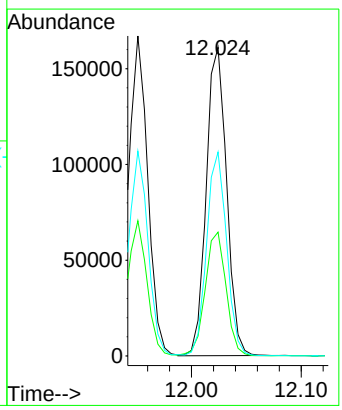
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

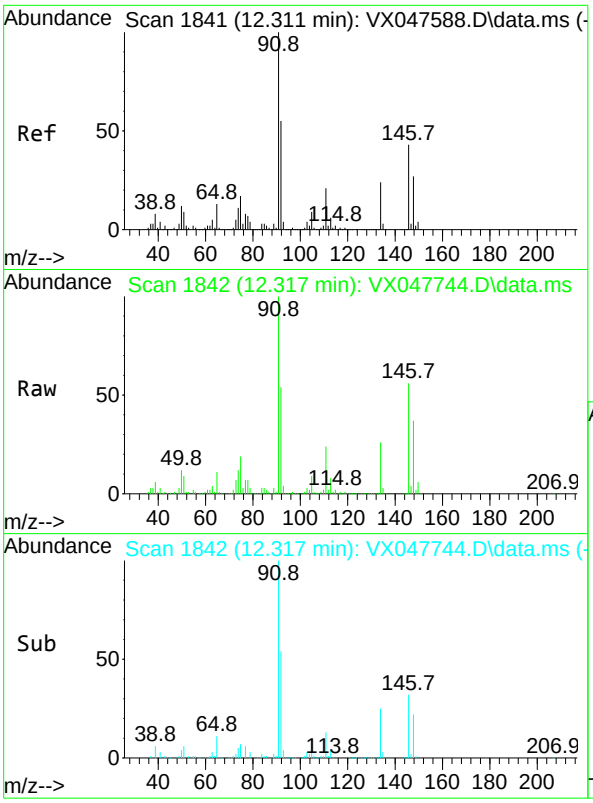


#88
1,4-Dichlorobenzene
Concen: 48.449 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:146 Resp: 207463

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.4
148	65.1	31.7	95.1

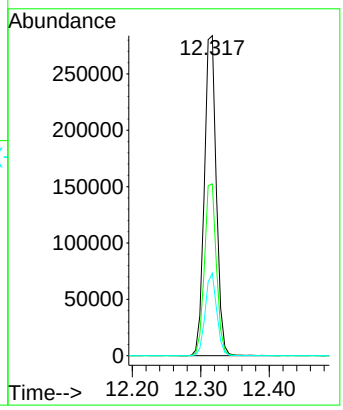




#89
n-Butylbenzene
Concen: 48.442 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 34573

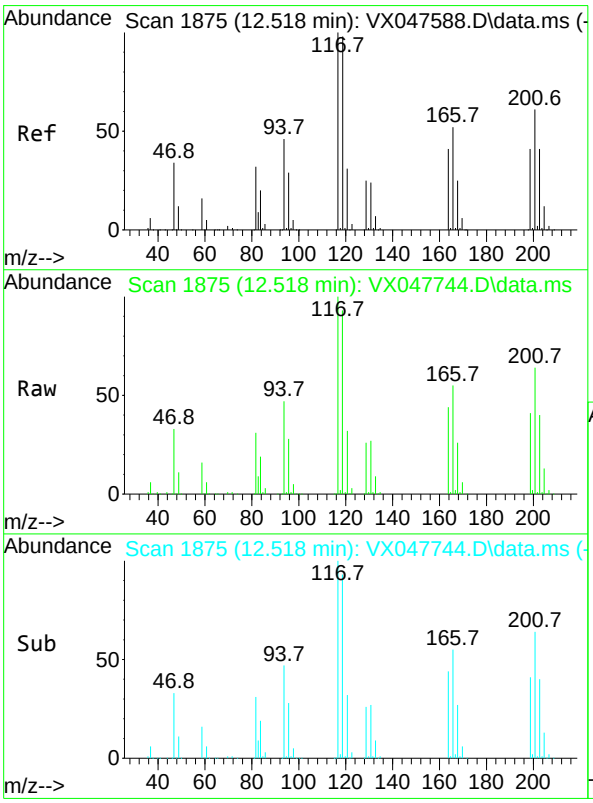
Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.6	82.7
134	24.8	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

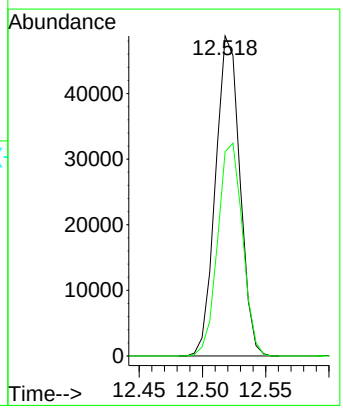
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

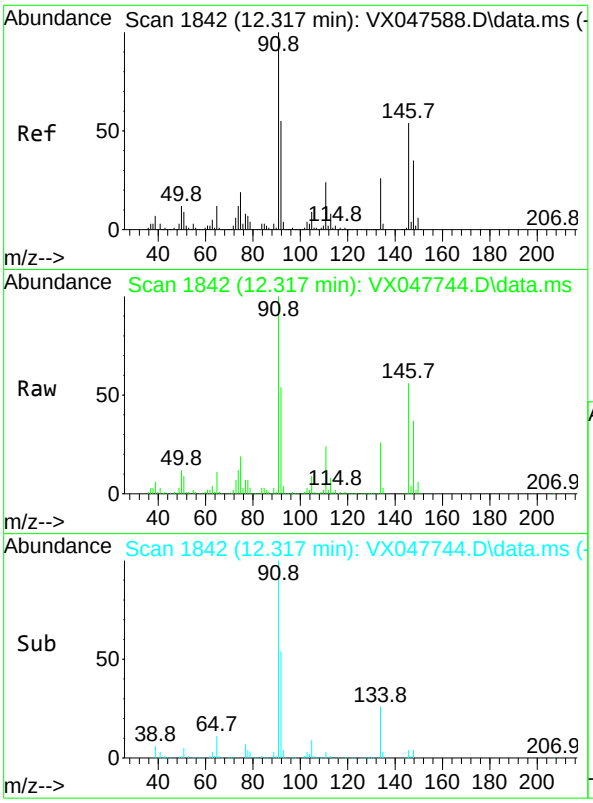


#90
Hexachloroethane
Concen: 48.232 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 65317

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5

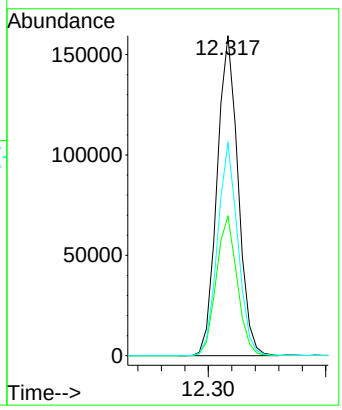




#91
1,2-Dichlorobenzene
Concen: 49.953 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:146 Resp: 19855

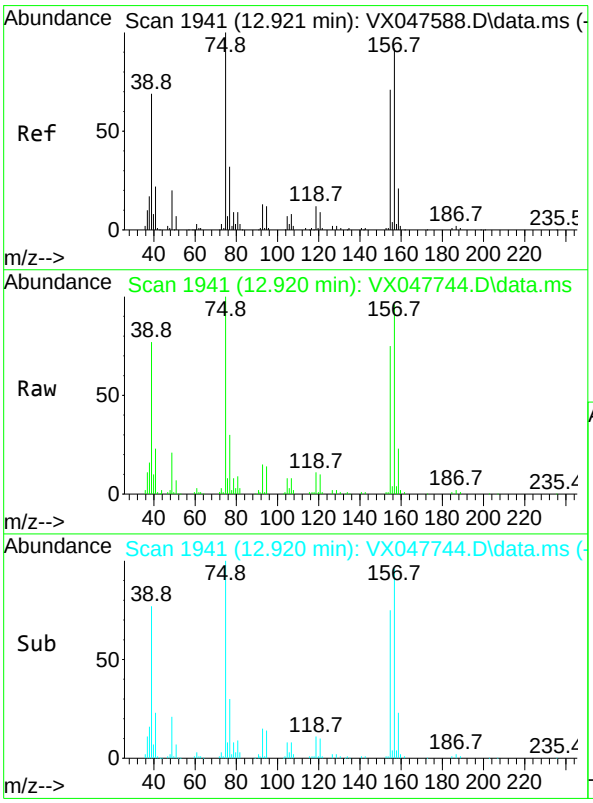
Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	64.3	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

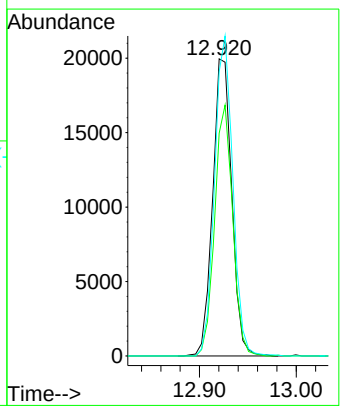
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

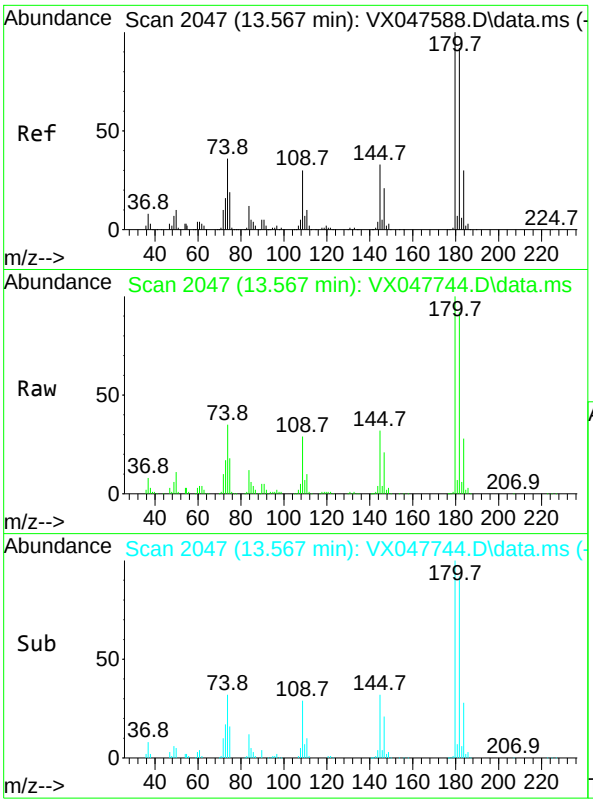


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.908 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 27323

Ion	Ratio	Lower	Upper
75	100		
155	79.8	37.7	113.1
157	103.2	49.8	149.4

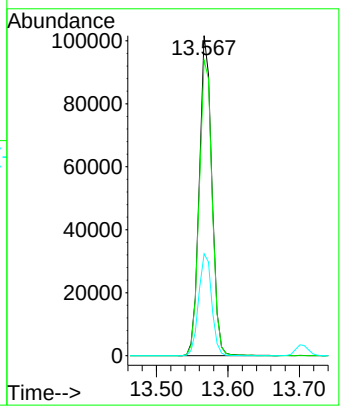




#93
1,2,4-Trichlorobenzene
Concen: 47.762 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:180 Resp: 12338

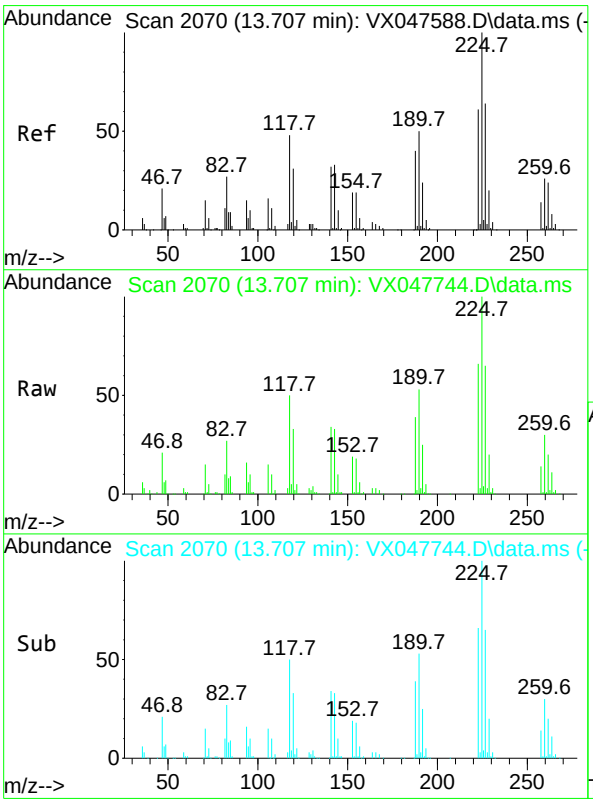
Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.6	139.8
145	33.1	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

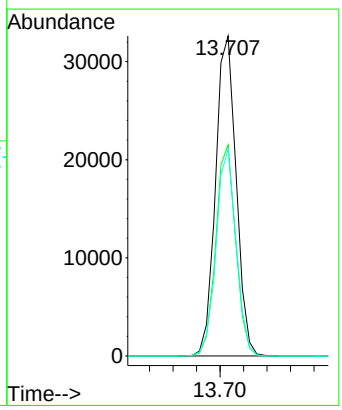
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

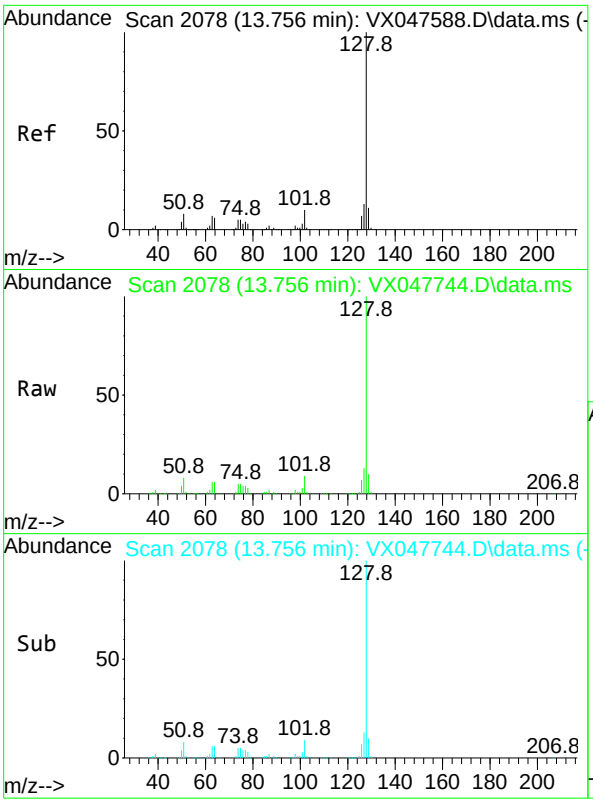


#94
Hexachlorobutadiene
Concen: 45.277 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:225 Resp: 39729

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	62.7	32.0	96.0

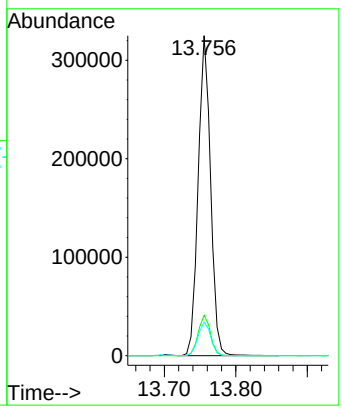




#95
Naphthalene
Concen: 49.575 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:128 Resp: 38997

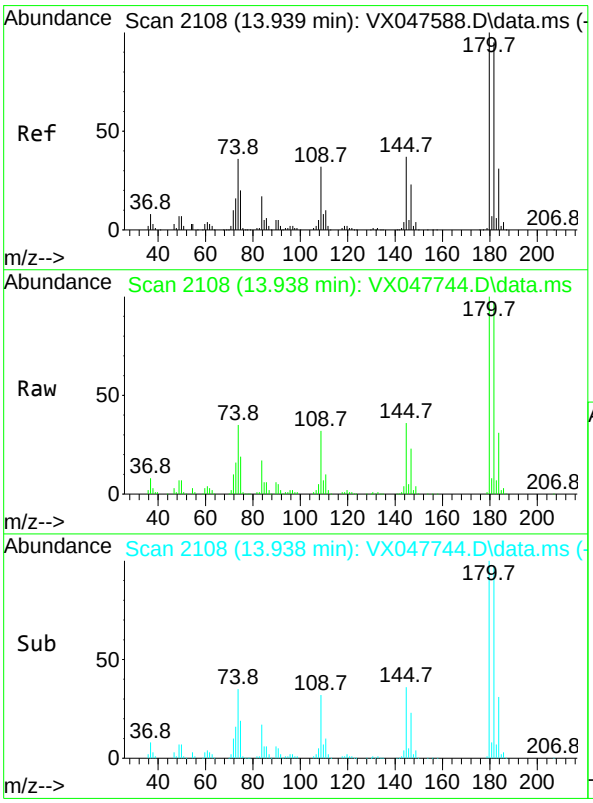
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

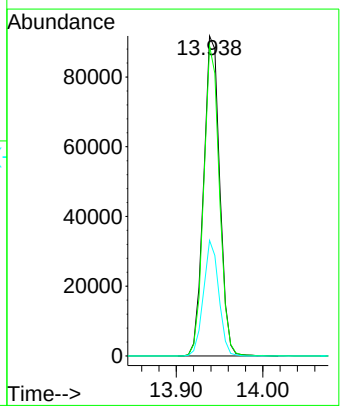
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.357 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:180 Resp: 118608

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.6	142.8
145	34.3	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	86	0.00
2	T	Dichlorodifluoromethane	0.518	0.632	-22.0	109	0.00
3	P	Chloromethane	0.680	0.784	-15.3	102	0.00
4	C	Vinyl Chloride	0.666	0.776	-16.5#	101	0.00
5	T	Bromomethane	0.422	0.496	-17.5	101	0.00
6	T	Chloroethane	0.445	0.505	-13.5	98	0.00
7	T	Trichlorofluoromethane	0.989	1.097	-10.9	95	0.00
8	T	Diethyl Ether	0.405	0.438	-8.1	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.639	-10.6	94	0.00
10	T	Methyl Iodide	0.902	0.972	-7.8	92	0.00
11	T	Tert butyl alcohol	0.089	0.082	7.9	79	0.00
12	CM	1,1-Dichloroethene	0.594	0.657	-10.6#	94	0.00
13	T	Acrolein	0.082	0.092	-12.2	97	0.00
14	T	Allyl chloride	1.226	1.245	-1.5	88	0.00
15	T	Acrylonitrile	0.328	0.379	-15.5	94	0.00
16	T	Acetone	0.346	0.295	14.7	80	0.00
17	T	Carbon Disulfide	1.626	1.828	-12.4	101	0.00
18	T	Methyl Acetate	0.770	0.876	-13.8	86	0.00
19	T	Methyl tert-butyl Ether	2.169	2.338	-7.8	90	0.00
20	T	Methylene Chloride	0.732	0.797	-8.9	94	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.715	-11.7	95	0.00
22	T	Diisopropyl ether	2.376	2.590	-9.0	90	0.00
23	T	Vinyl Acetate	1.901	2.098	-10.4	91	0.00
24	P	1,1-Dichloroethane	1.263	1.376	-8.9	91	0.00
25	T	2-Butanone	0.432	0.442	-2.3	87	0.00
26	T	2,2-Dichloropropane	1.050	0.874	16.8	70	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.862	-10.1	92	0.00
28	T	Bromochloromethane	0.551	0.579	-5.1	86	0.00
29	T	Tetrahydrofuran	0.260	0.292	-12.3	91	0.00
30	C	Chloroform	1.276	1.391	-9.0#	91	0.00
31	T	Cyclohexane	1.052	1.100	-4.6	92	0.00
32	T	1,1,1-Trichloroethane	1.082	1.150	-6.3	88	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.781	1.9	87	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35	S	Dibromofluoromethane	0.335	0.336	-0.3	89	0.00
36	T	1,1-Dichloropropene	0.490	0.498	-1.6	90	0.00
37	T	Ethyl Acetate	0.525	0.541	-3.0	90	0.00
38	T	Carbon Tetrachloride	0.532	0.522	1.9	85	0.00
39	T	Methylcyclohexane	0.556	0.569	-2.3	89	0.00
40	TM	Benzene	1.488	1.586	-6.6	92	0.00
41	T	Methacrylonitrile	0.271	0.293	-8.1	90	0.00
42	TM	1,2-Dichloroethane	0.566	0.582	-2.8	88	0.00
43	T	Isopropyl Acetate	0.860	0.900	-4.7	88	0.00
44	TM	Trichloroethene	0.360	0.386	-7.2	92	0.00
45	C	1,2-Dichloropropane	0.381	0.410	-7.6#	91	0.00
46	T	Dibromomethane	0.277	0.295	-6.5	90	0.00
47	T	Bromodichloromethane	0.572	0.607	-6.1	88	0.00
48	T	Methyl methacrylate	0.429	0.448	-4.4	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	0.004	0.005	-25.0	95	0.00
50	S	Toluene-d8	1.160	1.139	1.8	87	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.521	-9.2	90	0.00
52	CM	Toluene	0.917	0.974	-6.2#	91	0.00
53	T	t-1,3-Dichloropropene	0.584	0.590	-1.0	84	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.642	-2.9	86	0.00
55	T	1,1,2-Trichloroethane	0.354	0.387	-9.3	93	0.00
56	T	Ethyl methacrylate	0.555	0.605	-9.0	89	0.00
57	T	1,3-Dichloropropane	0.607	0.663	-9.2	91	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.267	-17.6	86	0.00
59	T	2-Hexanone	0.343	0.358	-4.4	87	0.00
60	T	Dibromochloromethane	0.407	0.441	-8.4	89	0.00
61	T	1,2-Dibromoethane	0.360	0.396	-10.0	92	0.00
62	S	4-Bromofluorobenzene	0.440	0.434	1.4	89	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
64	T	Tetrachloroethene	0.326	0.337	-3.4	93	0.00
65	PM	Chlorobenzene	1.136	1.185	-4.3	91	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.406	-3.6	88	0.00
67	C	Ethyl Benzene	1.960	2.020	-3.1#	89	0.00
68	T	m/p-Xylenes	0.729	0.755	-3.6	89	0.00
69	T	o-Xylene	0.706	0.741	-5.0	89	0.00
70	T	Styrene	1.236	1.305	-5.6	91	0.00
71	P	Bromoform	0.293	0.305	-4.1	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
73	T	Isopropylbenzene	3.801	3.780	0.6	88	0.00
74	T	N-amyl acetate	1.733	1.757	-1.4	89	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.194	-3.8	92	0.00
76	T	1,2,3-Trichloropropane	1.012	1.066	-5.3	89	0.00
77	T	Bromobenzene	0.936	0.936	0.0	89	0.00
78	T	n-propylbenzene	4.494	4.447	1.0	87	0.00
79	T	2-Chlorotoluene	2.752	2.701	1.9	87	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.088	1.1	87	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.369	7.1	84	0.00
82	T	4-Chlorotoluene	3.251	3.225	0.8	88	0.00
83	T	tert-Butylbenzene	3.197	3.114	2.6	87	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.140	0.8	88	0.00
85	T	sec-Butylbenzene	3.797	3.712	2.2	87	0.00
86	T	p-Isopropyltoluene	3.215	3.117	3.0	86	0.00
87	T	1,3-Dichlorobenzene	1.739	1.714	1.4	89	0.00
88	T	1,4-Dichlorobenzene	1.785	1.729	3.1	89	0.00
89	T	n-Butylbenzene	2.975	2.882	3.1	86	0.00
90	T	Hexachloroethane	0.564	0.544	3.5	86	0.00
91	T	1,2-Dichlorobenzene	1.657	1.655	0.1	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.228	2.1	84	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.029	4.5	84	0.00
94	T	Hexachlorobutadiene	0.366	0.331	9.6	81	0.00
95	T	Naphthalene	3.279	3.251	0.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	0.989	1.3	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	86	0.00
2	T	Dichlorodifluoromethane	50.000	61.061	-22.1	109	0.00
3	P	Chloromethane	50.000	57.609	-15.2	102	0.00
4	C	Vinyl Chloride	50.000	58.282	-16.6#	101	0.00
5	T	Bromomethane	50.000	58.713	-17.4	101	0.00
6	T	Chloroethane	50.000	56.753	-13.5	98	0.00
7	T	Trichlorofluoromethane	50.000	55.451	-10.9	95	0.00
8	T	Diethyl Ether	50.000	54.148	-8.3	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.254	-10.5	94	0.00
10	T	Methyl Iodide	50.000	53.870	-7.7	92	0.00
11	T	Tert butyl alcohol	250.000	231.046	7.6	79	0.00
12	CM	1,1-Dichloroethene	50.000	55.275	-10.5#	94	0.00
13	T	Acrolein	250.000	281.718	-12.7	97	0.00
14	T	Allyl chloride	50.000	50.766	-1.5	88	0.00
15	T	Acrylonitrile	250.000	288.375	-15.4	94	0.00
16	T	Acetone	250.000	212.978	14.8	80	0.00
17	T	Carbon Disulfide	50.000	56.202	-12.4	101	0.00
18	T	Methyl Acetate	50.000	56.883	-13.8	86	0.00
19	T	Methyl tert-butyl Ether	50.000	53.896	-7.8	90	0.00
20	T	Methylene Chloride	50.000	54.405	-8.8	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.907	-11.8	95	0.00
22	T	Diisopropyl ether	50.000	54.502	-9.0	90	0.00
23	T	Vinyl Acetate	250.000	275.867	-10.3	91	0.00
24	P	1,1-Dichloroethane	50.000	54.500	-9.0	91	0.00
25	T	2-Butanone	250.000	256.128	-2.5	87	0.00
26	T	2,2-Dichloropropane	50.000	41.645	16.7	70	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.058	-10.1	92	0.00
28	T	Bromochloromethane	50.000	52.489	-5.0	86	0.00
29	T	Tetrahydrofuran	250.000	281.124	-12.4	91	0.00
30	C	Chloroform	50.000	54.504	-9.0#	91	0.00
31	T	Cyclohexane	50.000	52.311	-4.6	92	0.00
32	T	1,1,1-Trichloroethane	50.000	53.110	-6.2	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.065	1.9	87	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35	S	Dibromofluoromethane	50.000	50.112	-0.2	89	0.00
36	T	1,1-Dichloropropene	50.000	50.792	-1.6	90	0.00
37	T	Ethyl Acetate	50.000	51.600	-3.2	90	0.00
38	T	Carbon Tetrachloride	50.000	49.026	1.9	85	0.00
39	T	Methylcyclohexane	50.000	51.142	-2.3	89	0.00
40	TM	Benzene	50.000	53.282	-6.6	92	0.00
41	T	Methacrylonitrile	50.000	54.104	-8.2	90	0.00
42	TM	1,2-Dichloroethane	50.000	51.431	-2.9	88	0.00
43	T	Isopropyl Acetate	50.000	52.327	-4.7	88	0.00
44	TM	Trichloroethene	50.000	53.576	-7.2	92	0.00
45	C	1,2-Dichloropropane	50.000	53.818	-7.6#	91	0.00
46	T	Dibromomethane	50.000	53.104	-6.2	90	0.00
47	T	Bromodichloromethane	50.000	53.077	-6.2	88	0.00
48	T	Methyl methacrylate	50.000	52.283	-4.6	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1196.046	-19.6	95	0.00
50	S	Toluene-d8	50.000	49.087	1.8	87	0.00
51	T	4-Methyl-2-Pentanone	250.000	272.809	-9.1	90	0.00
52	CM	Toluene	50.000	53.113	-6.2#	91	0.00
53	T	t-1,3-Dichloropropene	50.000	50.499	-1.0	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.421	-2.8	86	0.00
55	T	1,1,2-Trichloroethane	50.000	54.692	-9.4	93	0.00
56	T	Ethyl methacrylate	50.000	54.448	-8.9	89	0.00
57	T	1,3-Dichloropropane	50.000	54.560	-9.1	91	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	251.172	-0.5	86	0.00
59	T	2-Hexanone	250.000	260.895	-4.4	87	0.00
60	T	Dibromochloromethane	50.000	54.078	-8.2	89	0.00
61	T	1,2-Dibromoethane	50.000	54.937	-9.9	92	0.00
62	S	4-Bromofluorobenzene	50.000	49.307	1.4	89	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	90	0.00
64	T	Tetrachloroethene	50.000	51.765	-3.5	93	0.00
65	PM	Chlorobenzene	50.000	52.159	-4.3	91	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.810	-3.6	88	0.00
67	C	Ethyl Benzene	50.000	51.527	-3.1#	89	0.00
68	T	m/p-Xylenes	100.000	103.518	-3.5	89	0.00
69	T	o-Xylene	50.000	52.511	-5.0	89	0.00
70	T	Styrene	50.000	52.779	-5.6	91	0.00
71	P	Bromoform	50.000	52.097	-4.2	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	94	0.00
73	T	Isopropylbenzene	50.000	49.722	0.6	88	0.00
74	T	N-amyl acetate	50.000	50.685	-1.4	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.892	-3.8	92	0.00
76	T	1,2,3-Trichloropropane	50.000	52.639	-5.3	89	0.00
77	T	Bromobenzene	50.000	50.007	-0.0	89	0.00
78	T	n-propylbenzene	50.000	49.483	1.0	87	0.00
79	T	2-Chlorotoluene	50.000	49.069	1.9	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.437	1.1	87	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.433	7.1	84	0.00
82	T	4-Chlorotoluene	50.000	49.610	0.8	88	0.00
83	T	tert-Butylbenzene	50.000	48.704	2.6	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.591	0.8	88	0.00
85	T	sec-Butylbenzene	50.000	48.878	2.2	87	0.00
86	T	p-Isopropyltoluene	50.000	48.479	3.0	86	0.00
87	T	1,3-Dichlorobenzene	50.000	49.286	1.4	89	0.00
88	T	1,4-Dichlorobenzene	50.000	48.449	3.1	89	0.00
89	T	n-Butylbenzene	50.000	48.442	3.1	86	0.00
90	T	Hexachloroethane	50.000	48.232	3.5	86	0.00
91	T	1,2-Dichlorobenzene	50.000	49.953	0.1	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.908	2.2	84	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.762	4.5	84	0.00
94	T	Hexachlorobutadiene	50.000	45.277	9.4	81	0.00
95	T	Naphthalene	50.000	49.575	0.8	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	49.357	1.3	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:	Alliance	Contract:	TETR06
Lab Code:	ACE	SDG No.:	Q3141
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/24/2025 02:08
Lab File ID:	VX047746.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.672		29.73	20
Chloromethane	0.680	0.783	0.1	15.15	20
Vinyl Chloride	0.666	0.789		18.47	20
Bromomethane	0.422	0.468		10.9	20
Chloroethane	0.445	0.492		10.56	20
Trichlorofluoromethane	0.989	1.101		11.32	20
1,1,2-Trichlorotrifluoroethane	0.578	0.655		13.32	20
1,1-Dichloroethene	0.594	0.663		11.62	20
Acetone	0.346	0.298		-13.87	20
Carbon Disulfide	1.626	1.796		10.45	20
Methyl tert-butyl Ether	2.169	2.253		3.87	20
Methyl Acetate	0.770	0.868		12.73	20
Methylene Chloride	0.732	0.771		5.33	20
trans-1,2-Dichloroethene	0.640	0.695		8.59	20
1,1-Dichloroethane	1.263	1.349	0.1	6.81	20
Cyclohexane	1.052	1.077		2.38	20
2-Butanone	0.432	0.438		1.39	20
Carbon Tetrachloride	0.532	0.554		4.14	20
cis-1,2-Dichloroethene	0.783	0.815		4.09	20
Bromochloromethane	0.551	0.629		14.16	20
Chloroform	1.276	1.328		4.07	20
1,1,1-Trichloroethane	1.082	1.123		3.79	20
Methylcyclohexane	0.556	0.576		3.6	20
Benzene	1.488	1.584		6.45	20
1,2-Dichloroethane	0.566	0.569		0.53	20
Trichloroethene	0.360	0.387		7.5	20
1,2-Dichloropropane	0.381	0.401		5.25	20
Bromodichloromethane	0.572	0.594		3.85	20
4-Methyl-2-Pentanone	0.477	0.516		8.18	20
Toluene	0.917	0.950		3.6	20
t-1,3-Dichloropropene	0.584	0.561		-3.94	20
cis-1,3-Dichloropropene	0.624	0.614		-1.6	20
1,1,2-Trichloroethane	0.354	0.369		4.24	20
2-Hexanone	0.343	0.357		4.08	20
Dibromochloromethane	0.407	0.431		5.9	20
1,2-Dibromoethane	0.360	0.382		6.11	20
Tetrachloroethene	0.326	0.346		6.14	20
Chlorobenzene	1.136	1.179	0.3	3.79	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: Alliance | Contract: TETR06

Lab Code: ACE | SDG No.: Q3141

Instrument ID: MSVOA_X | Calibration Date/Time: 09/24/2025 02:08

Lab File ID: VX047746.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.043		4.24	20
m/p-Xylenes	0.729	0.773		6.04	20
o-Xylene	0.706	0.741		4.96	20
Styrene	1.236	1.308		5.82	20
Bromoform	0.293	0.317	0.1	8.19	20
Isopropylbenzene	3.801	3.949		3.89	20
1,1,2,2-Tetrachloroethane	1.150	1.228	0.3	6.78	20
1,3-Dichlorobenzene	1.739	1.760		1.21	20
1,4-Dichlorobenzene	1.785	1.788		0.17	20
1,2-Dichlorobenzene	1.657	1.706		2.96	20
1,2-Dibromo-3-Chloropropane	0.233	0.234		0.43	20
1,2,4-Trichlorobenzene	1.077	1.065		-1.11	20
1,2,3-Trichlorobenzene	1.002	1.020		1.8	20
1,2-Dichloroethane-d4	0.796	0.863		8.42	20
Dibromofluoromethane	0.335	0.398		18.81	20
Toluene-d8	1.160	1.325		14.22	20
4-Bromofluorobenzene	0.440	0.493		12.05	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\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	166745	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	290663	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	252770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	121948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	143883	54.210	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.420%			
35) Dibromofluoromethane	5.361	113	115620	59.312	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 118.620%			
50) Toluene-d8	8.629	98	385188	57.106	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 114.220%#			
62) 4-Bromofluorobenzene	11.061	95	143339	55.994	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	112040	64.888	ug/l	100
3) Chloromethane	1.301	50	130600	57.550	ug/l	100
4) Vinyl Chloride	1.380	62	131626	59.253	ug/l	99
5) Bromomethane	1.612	94	78027	55.392	ug/l	100
6) Chloroethane	1.691	64	81956	55.200	ug/l	99
7) Trichlorofluoromethane	1.892	101	183574	55.656	ug/l	98
8) Diethyl Ether	2.136	74	71840	53.244	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	109156	56.598	ug/l	98
10) Methyl Iodide	2.453	142	159713	53.098	ug/l	100
11) Tert butyl alcohol	2.941	59	74645	252.518	ug/l	99
12) 1,1-Dichloroethene	2.319	96	110500	55.777	ug/l	95
13) Acrolein	2.233	56	76283	280.037	ug/l	97
14) Allyl chloride	2.660	41	201882	49.383	ug/l	97
15) Acrylonitrile	3.050	53	308364	281.629	ug/l	99
16) Acetone	2.374	43	248054	214.945	ug/l	97
17) Carbon Disulfide	2.514	76	299474	55.218	ug/l	98
18) Methyl Acetate	2.697	43	144662	56.326	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	375666	51.946	ug/l	100
20) Methylene Chloride	2.788	84	128569	52.632	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	115848	54.315	ug/l	98
22) Diisopropyl ether	3.745	45	417196	52.658	ug/l	88
23) Vinyl Acetate	3.709	43	1676763	264.433	ug/l	100
24) 1,1-Dichloroethane	3.599	63	224981	53.426	ug/l	100
25) 2-Butanone	4.532	43	365129	253.647	ug/l	98
26) 2,2-Dichloropropane	4.459	77	121706	34.769	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	135871	52.016	ug/l	95
28) Bromochloromethane	4.879	49	104808	57.010	ug/l	98
29) Tetrahydrofuran	4.983	42	236130	272.674	ug/l	99
30) Chloroform	5.068	83	221493	52.050	ug/l	97
31) Cyclohexane	5.452	56	179654	51.224	ug/l	96
32) 1,1,1-Trichloroethane	5.361	97	187296	51.890	ug/l	100
36) 1,1-Dichloropropene	5.672	75	146503	51.432	ug/l	99
37) Ethyl Acetate	4.690	43	157558	51.660	ug/l	99
38) Carbon Tetrachloride	5.660	117	160891	51.986	ug/l	97
39) Methylcyclohexane	7.361	83	167414	51.777	ug/l	99
40) Benzene	6.019	78	460455	53.223	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.891	41	87766	55.742 ug/l		97
42) 1,2-Dichloroethane	6.068	62	165276	50.209 ug/l		98
43) Isopropyl Acetate	6.318	43	257745	51.528 ug/l		99
44) Trichloroethene	7.104	130	112394	53.736 ug/l		99
45) 1,2-Dichloropropane	7.409	63	116449	52.565 ug/l		100
46) Dibromomethane	7.562	93	84502	52.418 ug/l		98
47) Bromodichloromethane	7.799	83	172703	51.915 ug/l		99
48) Methyl methacrylate	7.671	41	129497	51.974 ug/l		98
49) 1,4-Dioxane	7.641	88	32904	1306.764 ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	749272	270.171 ug/l		100
52) Toluene	8.702	92	276160	51.811 ug/l		99
53) t-1,3-Dichloropropene	8.958	75	163001	48.037 ug/l		97
54) cis-1,3-Dichloropropene	8.348	75	178505	49.218 ug/l		96
55) 1,1,2-Trichloroethane	9.135	97	107258	52.187 ug/l		98
56) Ethyl methacrylate	9.098	69	169567	52.534 ug/l		97
57) 1,3-Dichloropropane	9.287	76	186062	52.699 ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	436211	280.568 ug/l		100
59) 2-Hexanone	9.415	43	518114	260.122 ug/l		98
60) Dibromochloromethane	9.500	129	125404	52.954 ug/l		99
61) 1,2-Dibromoethane	9.592	107	111139	53.090 ug/l		100
64) Tetrachloroethene	9.257	164	87453	53.073 ug/l		97
65) Chlorobenzene	10.061	112	297945	51.885 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	104386	52.679 ug/l		100
67) Ethyl Benzene	10.177	91	516414	52.120 ug/l		100
68) m/p-Xylenes	10.287	106	390979	106.017 ug/l		98
69) o-Xylene	10.622	106	187203	52.481 ug/l		99
70) Styrene	10.634	104	330686	52.908 ug/l		98
71) Bromoform	10.781	173	80138	54.161 ug/l	#	96
73) Isopropylbenzene	10.945	105	481526	51.938 ug/l		100
74) N-amyl acetate	10.823	43	221168	52.312 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	149789	53.400 ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	119145m	48.255 ug/l		
77) Bromobenzene	11.183	156	116706	51.110 ug/l		97
78) n-propylbenzene	11.287	91	563194	51.387 ug/l		99
79) 2-Chlorotoluene	11.348	91	341925	50.938 ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	385950	50.669 ug/l		97
81) trans-1,4-Dichloro-2-b...	11.000	75	42739	44.142 ug/l		98
82) 4-Chlorotoluene	11.439	91	398881	50.313 ug/l		99
83) tert-Butylbenzene	11.695	119	397171	50.936 ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	394508	51.085 ug/l		99
85) sec-Butylbenzene	11.872	105	471850	50.945 ug/l		100
86) p-Isopropyltoluene	11.988	119	397440	50.687 ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	214686	50.618 ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	218086	50.100 ug/l		99
89) n-Butylbenzene	12.311	91	359706	49.578 ug/l		99
90) Hexachloroethane	12.518	117	70601	51.284 ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	208091	51.499 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28554	50.279 ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	129844	49.444 ug/l		100
94) Hexachlorobutadiene	13.707	225	42478	47.621 ug/l		99
95) Naphthalene	13.756	128	410203	51.297 ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	124328	50.895 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

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

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

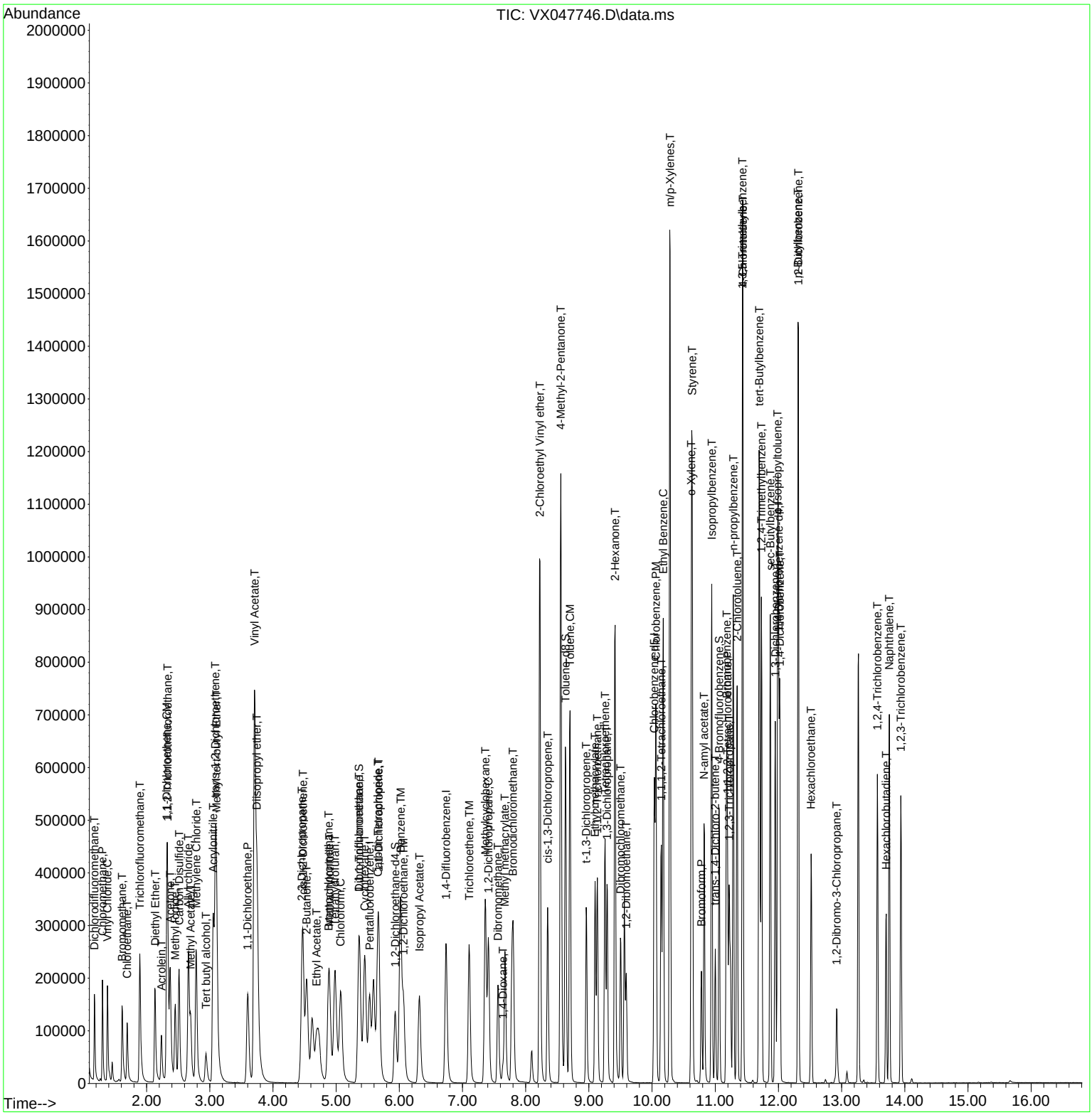
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

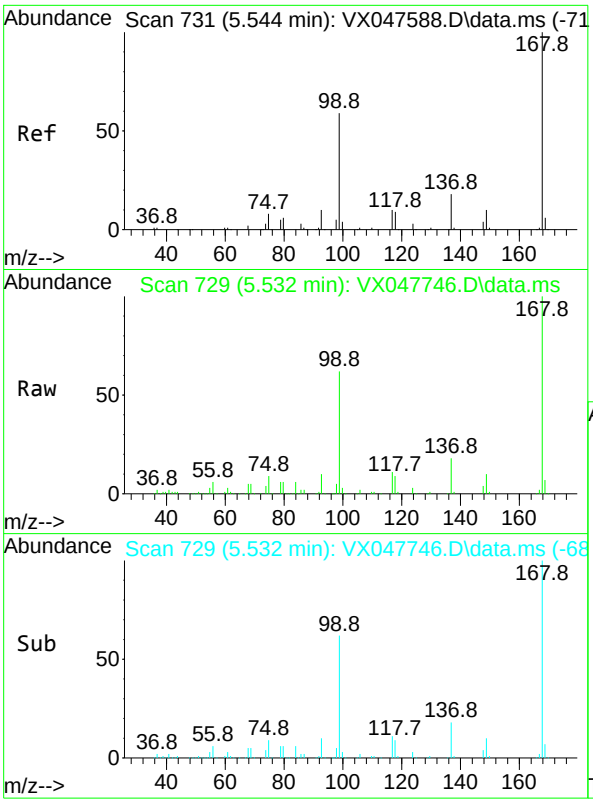
Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

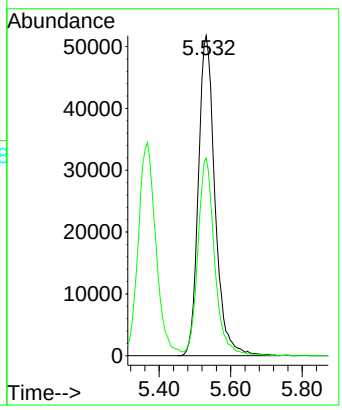




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:168 Resp: 16674

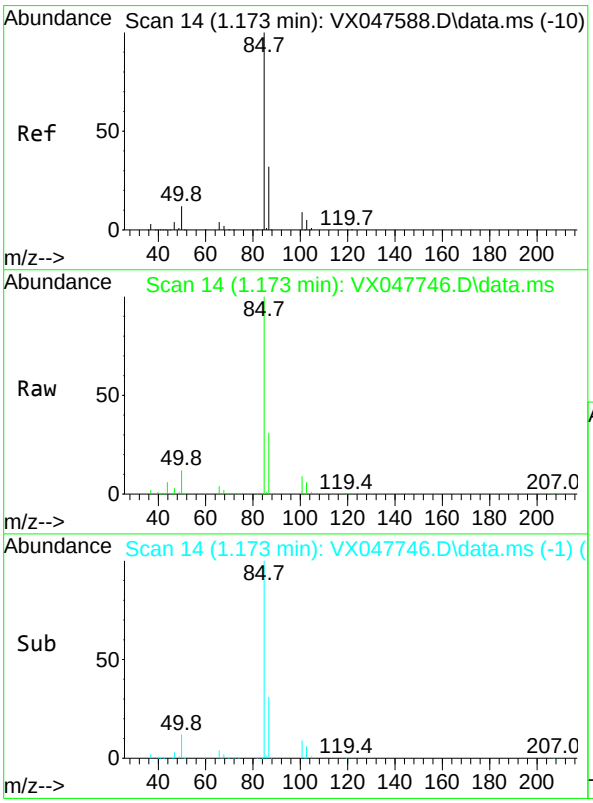
Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

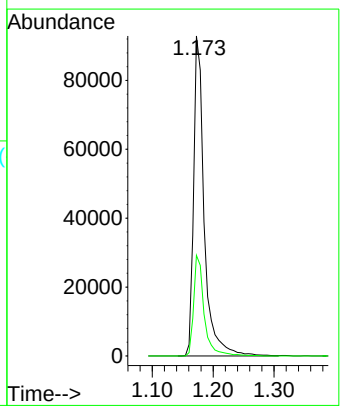
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

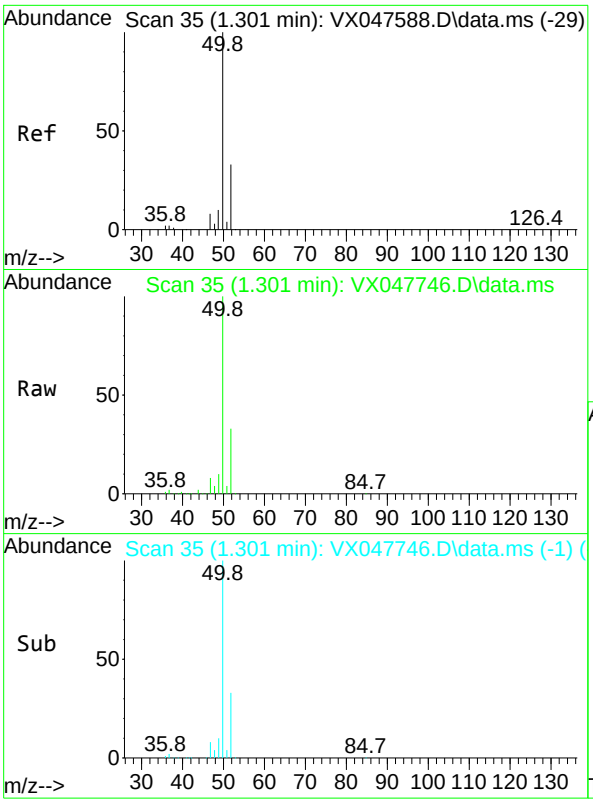


#2
Dichlorodifluoromethane
Concen: 64.888 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 85 Resp: 112040

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3

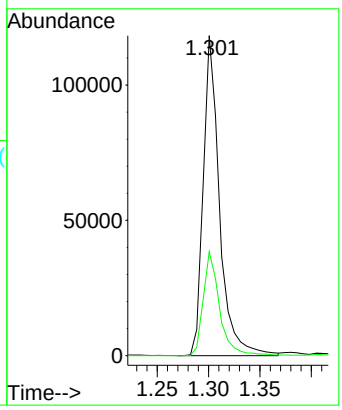




#3
Chloromethane
Concen: 57.550 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 50 Resp: 13060

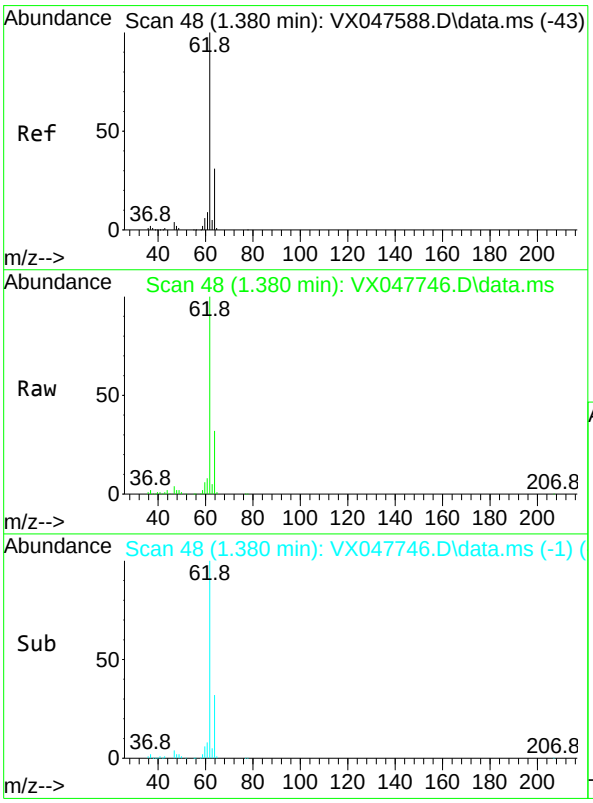
Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

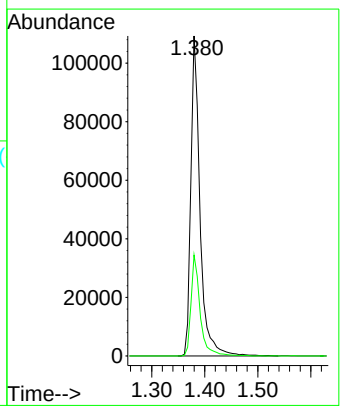
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

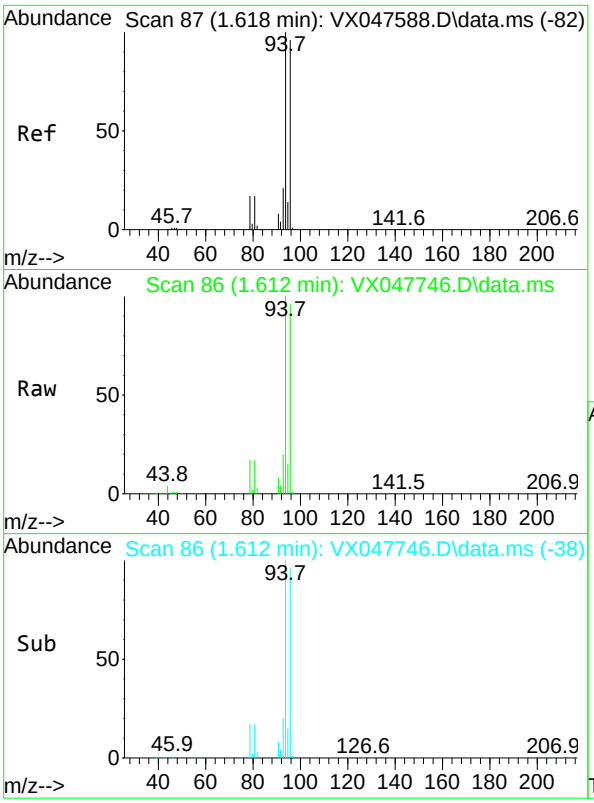


#4
Vinyl Chloride
Concen: 59.253 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 131626

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3

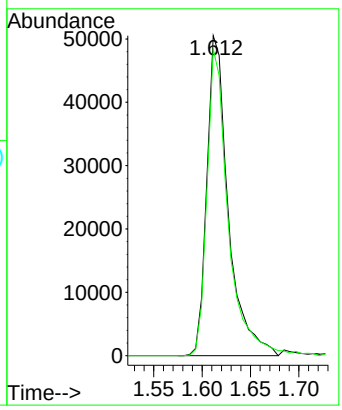




#5
Bromomethane
Concen: 55.392 ug/l
RT: 1.612 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 94 Resp: 7802

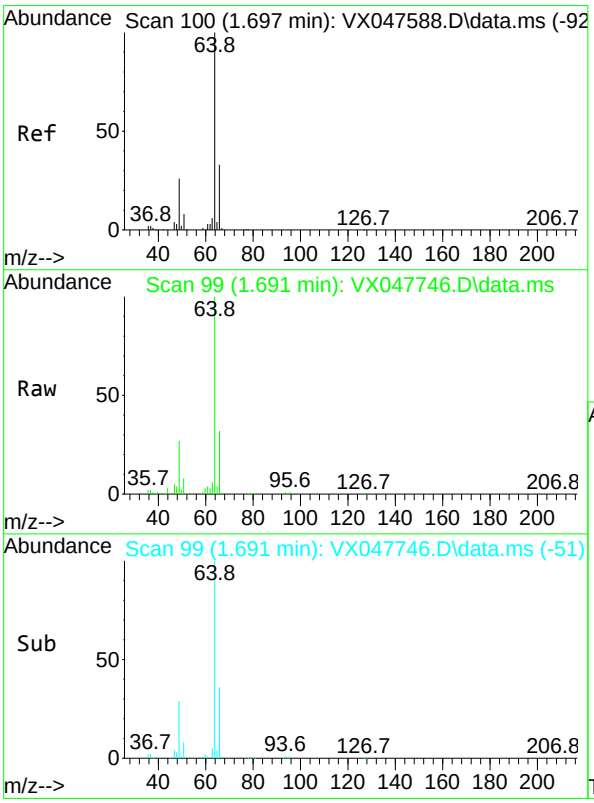
Ion	Ratio	Lower	Upper
94	100		
96	95.9	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

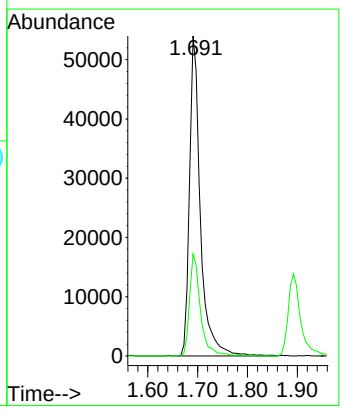
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

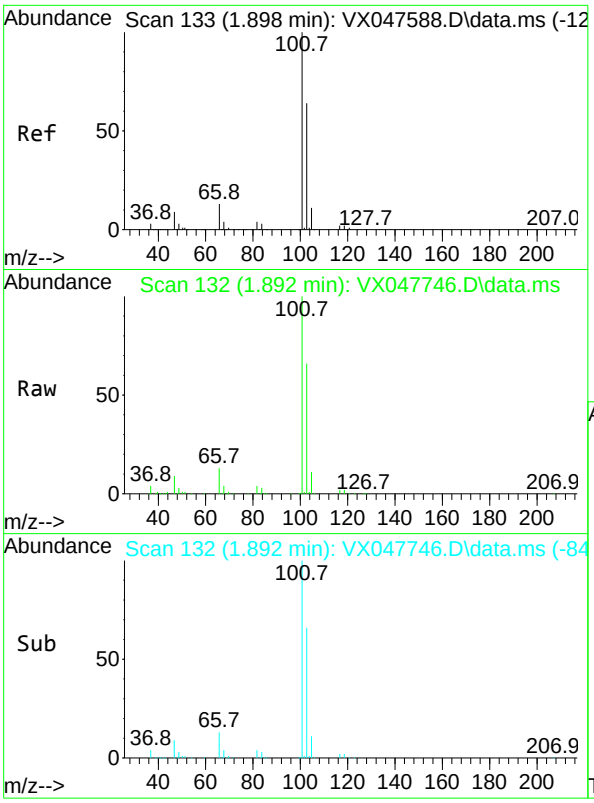


#6
Chloroethane
Concen: 55.200 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 64 Resp: 81956

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1

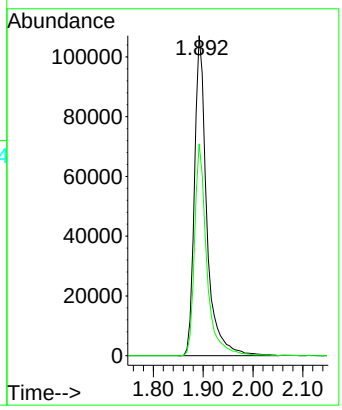




#7
Trichlorofluoromethane
Concen: 55.656 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:101 Resp: 18357

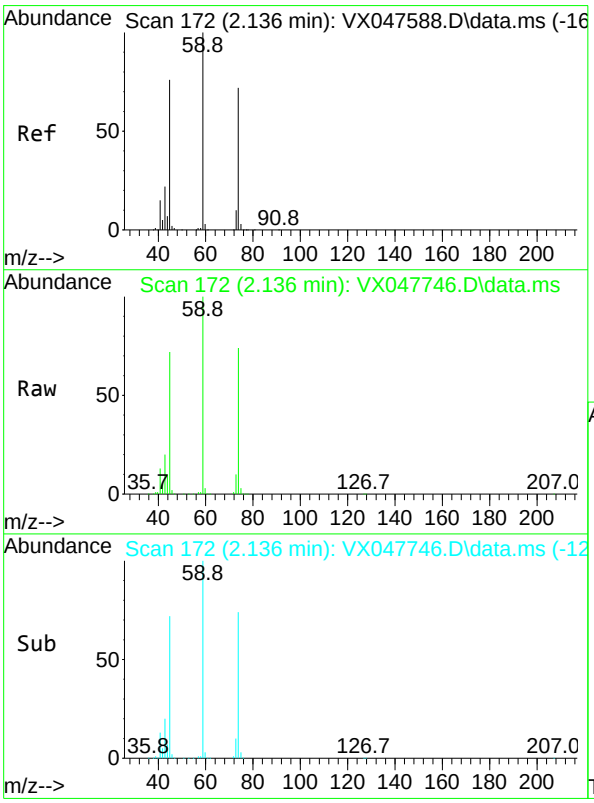
Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

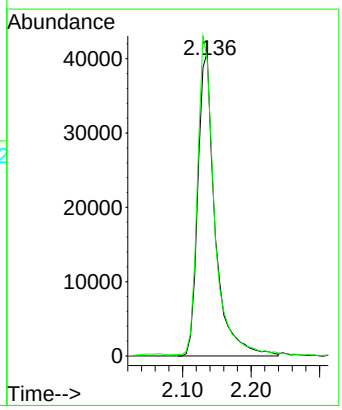
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

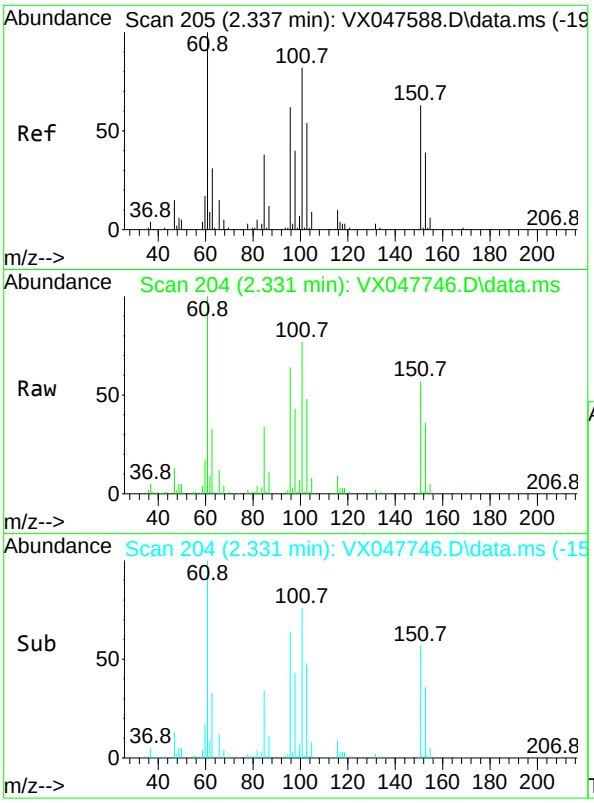


#8
Diethyl Ether
Concen: 53.244 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 74 Resp: 71840

Ion	Ratio	Lower	Upper
74	100		
45	105.8	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.598 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

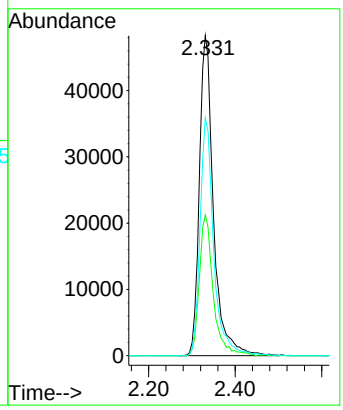
Tgt Ion:101 Resp: 10915

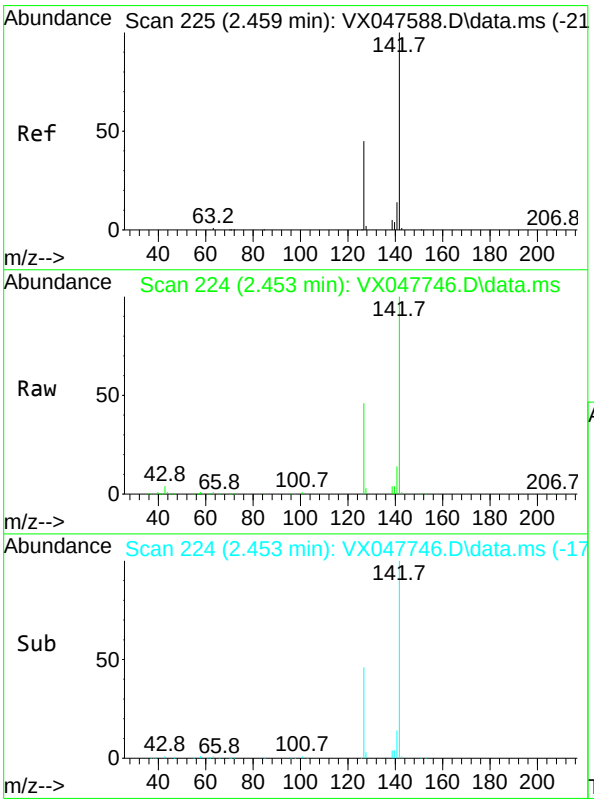
Ion	Ratio	Lower	Upper
101	100		
85	43.4	35.5	53.3
151	72.1	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

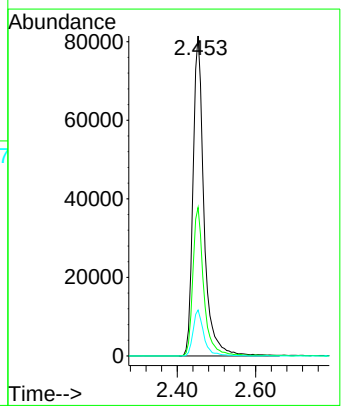


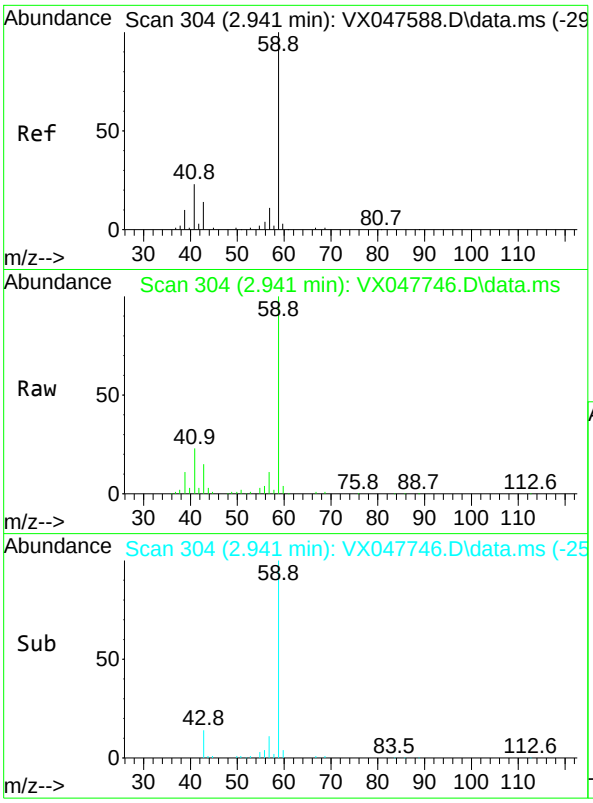


#10
Methyl Iodide
Concen: 53.098 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:142 Resp: 159713

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.1	11.4	17.0

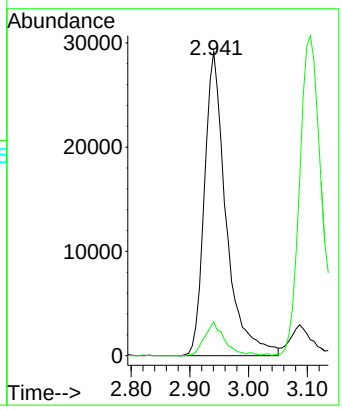




#11
Tert butyl alcohol
Concen: 252.518 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 59 Resp: 7464

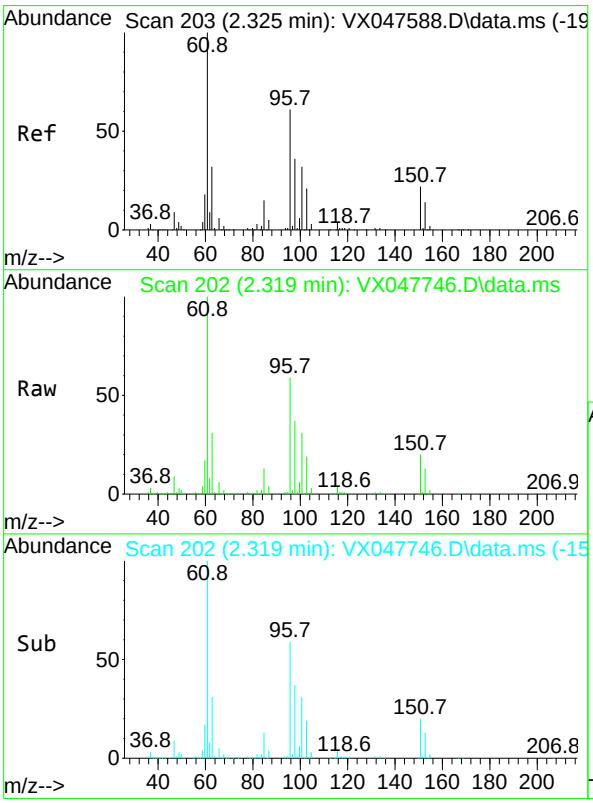
Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

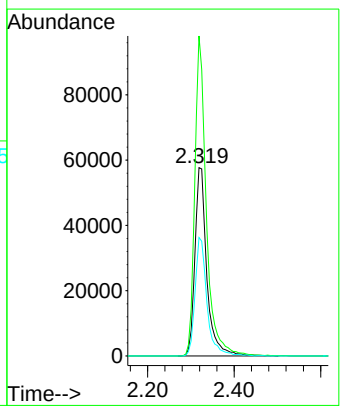
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

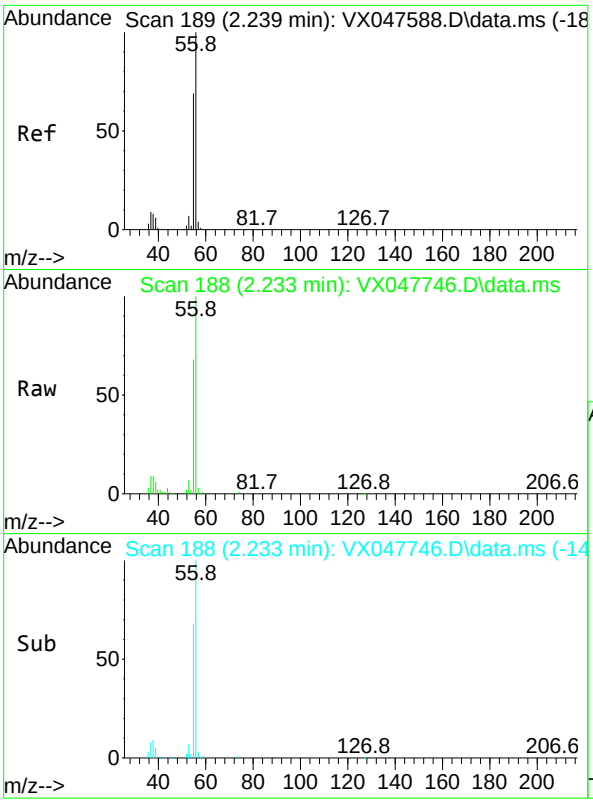


#12
1,1-Dichloroethene
Concen: 55.777 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 110500

Ion	Ratio	Lower	Upper
96	100		
61	169.9	131.0	196.6
98	62.9	47.7	71.5

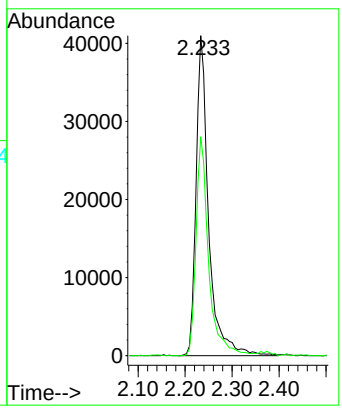




#13
Acrolein
Concen: 280.037 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 56 Resp: 7628

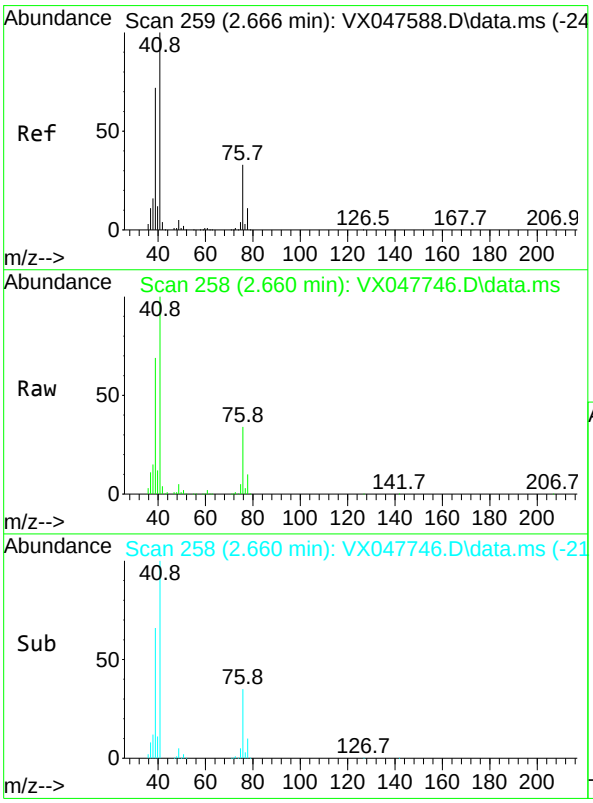
Ion	Ratio	Lower	Upper
56	100		
55	68.8	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

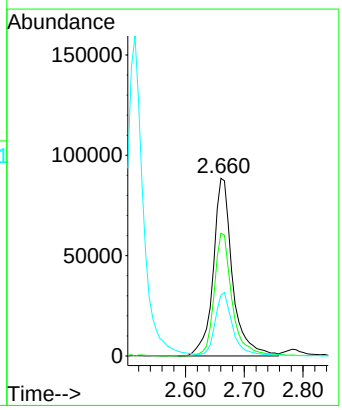
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

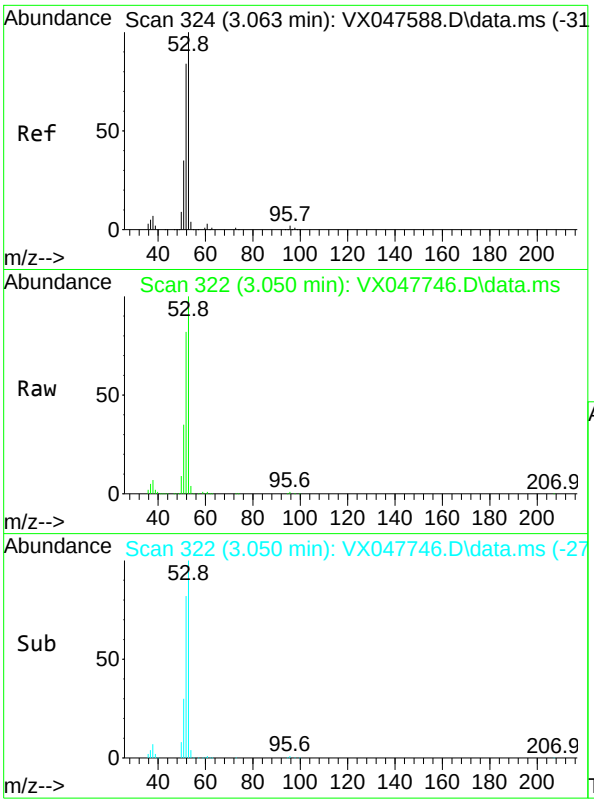


#14
Allyl chloride
Concen: 49.383 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 201882

Ion	Ratio	Lower	Upper
41	100		
39	64.8	54.7	82.1
76	32.5	25.7	38.5

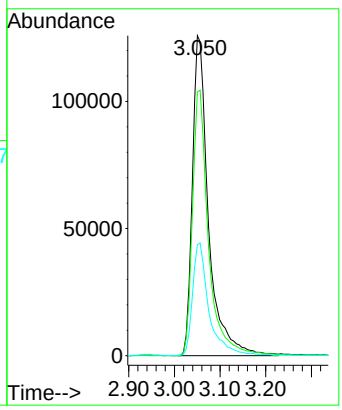




#15
Acrylonitrile
Concen: 281.629 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 53 Resp: 30836

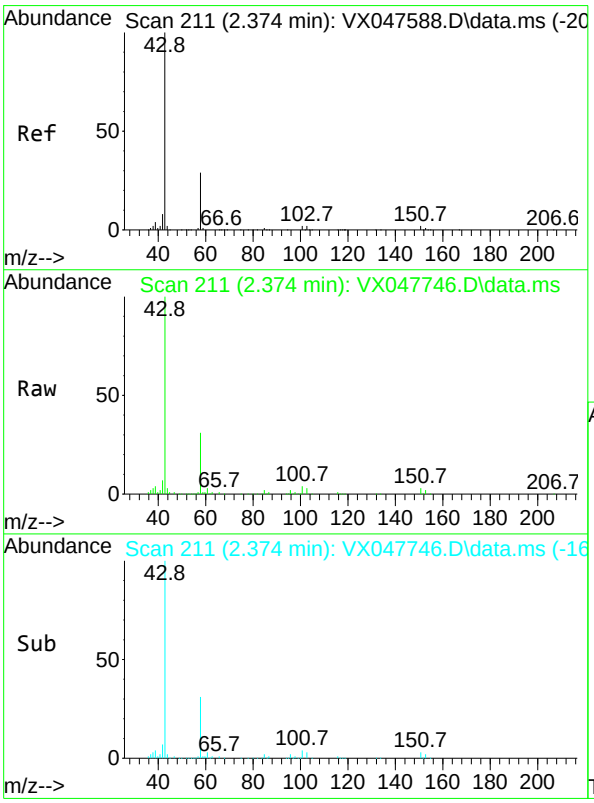
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.0	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

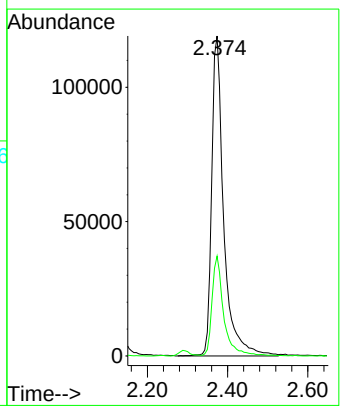
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

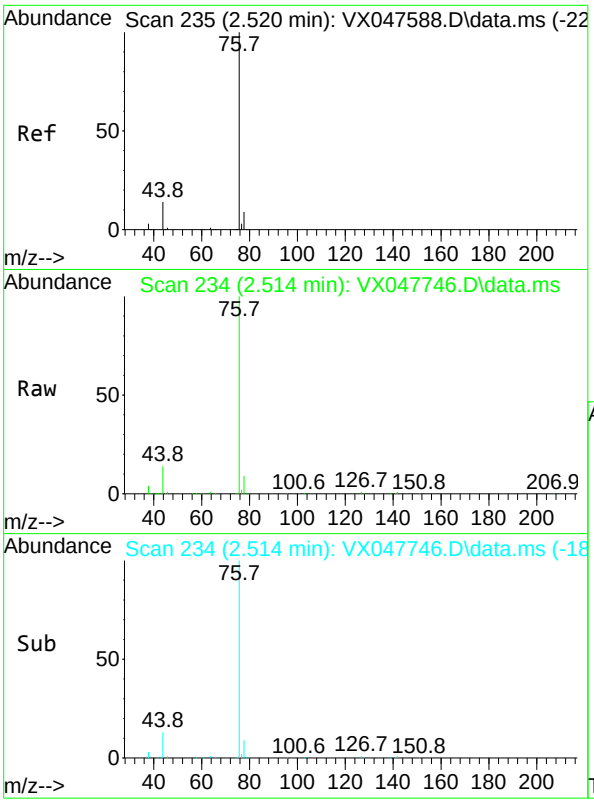


#16
Acetone
Concen: 214.945 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 248054

Ion	Ratio	Lower	Upper
43	100		
58	31.1	23.4	35.0

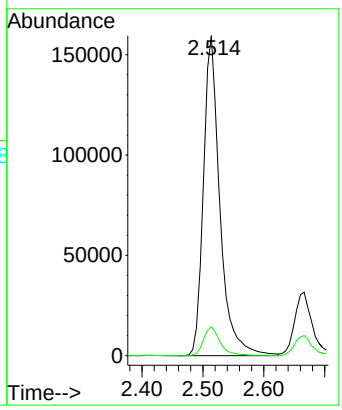




#17
Carbon Disulfide
Concen: 55.218 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 76 Resp: 29947

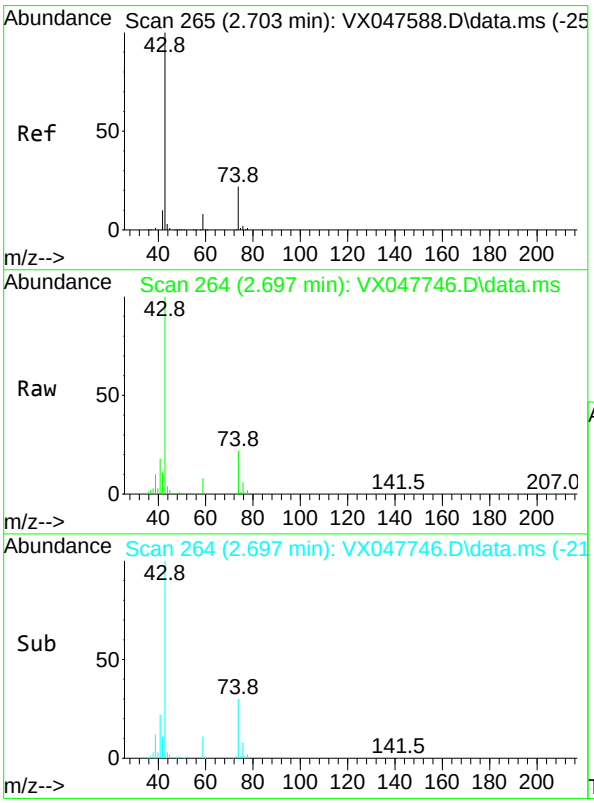
Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

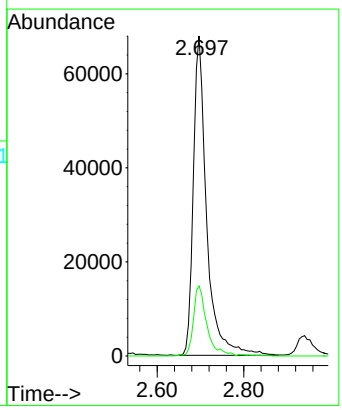
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

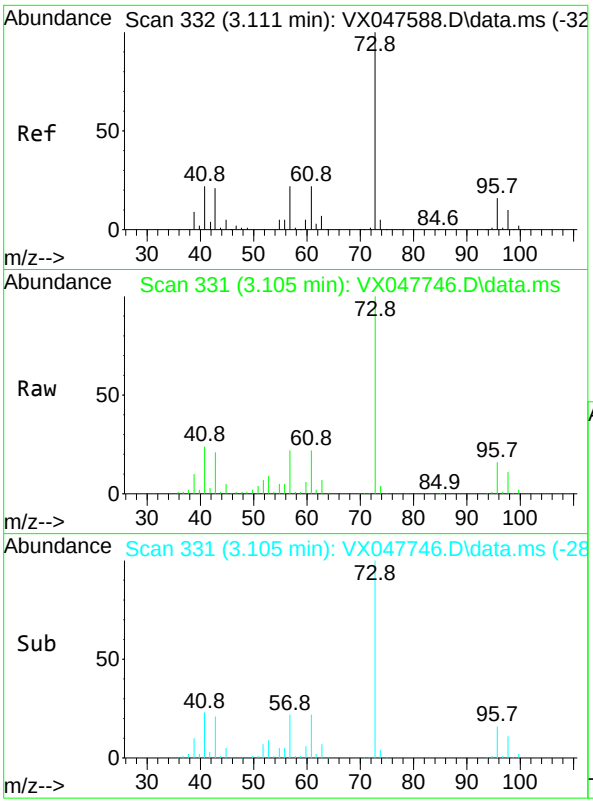


#18
Methyl Acetate
Concen: 56.326 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 144662

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

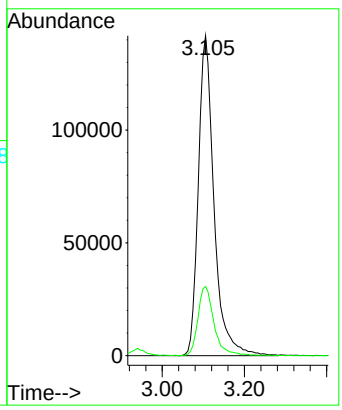




#19
Methyl tert-butyl Ether
Concen: 51.946 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 73 Resp: 37566

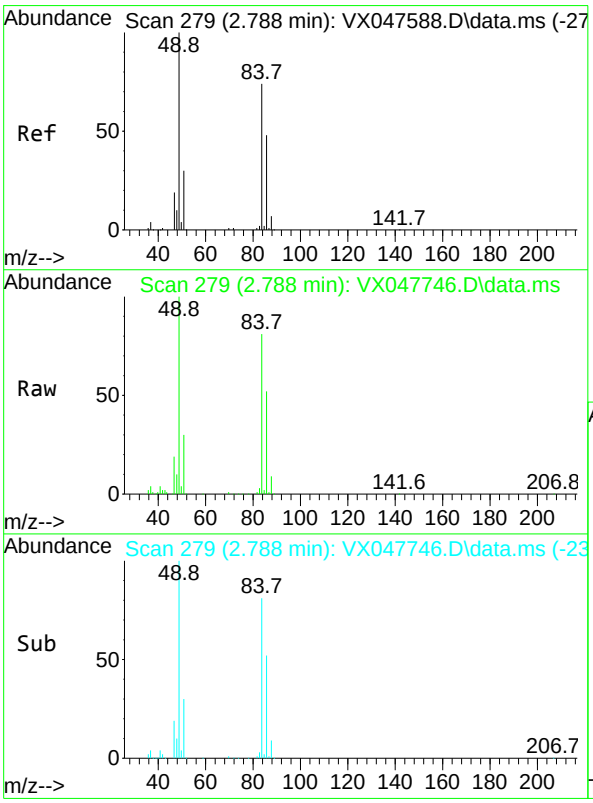
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

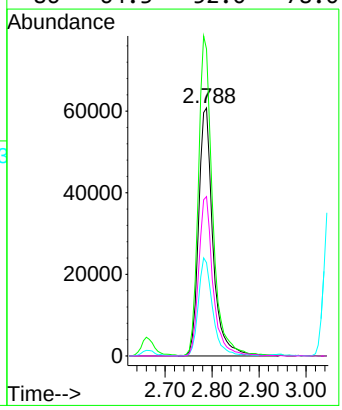
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

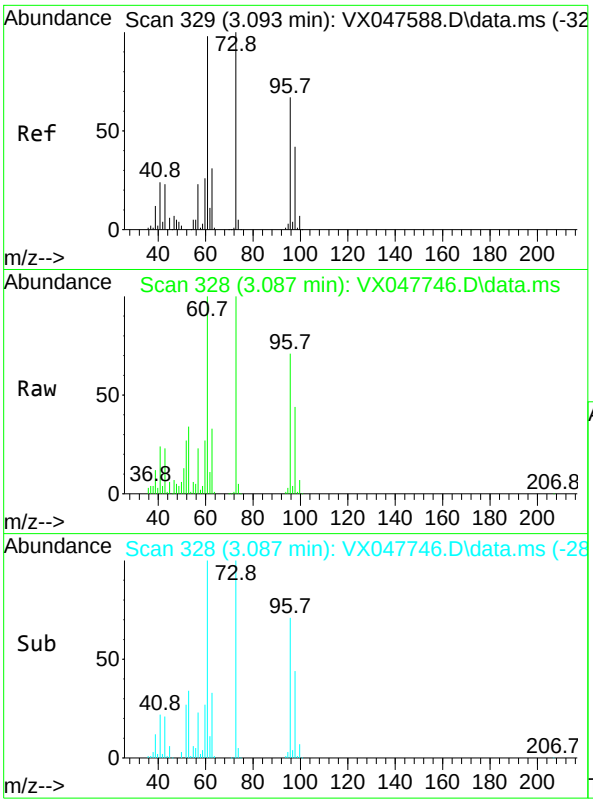


#20
Methylene Chloride
Concen: 52.632 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 84 Resp: 128569

Ion	Ratio	Lower	Upper
84	100		
49	123.6	108.6	162.8
51	37.5	32.6	48.8
86	64.3	52.0	78.0

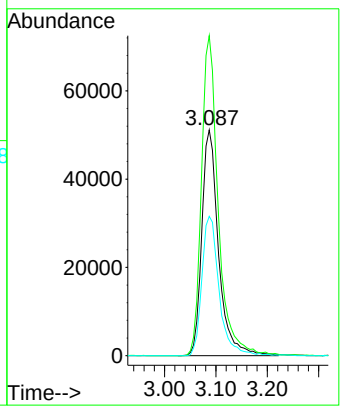




#21
trans-1,2-Dichloroethene
Concen: 54.315 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 11584

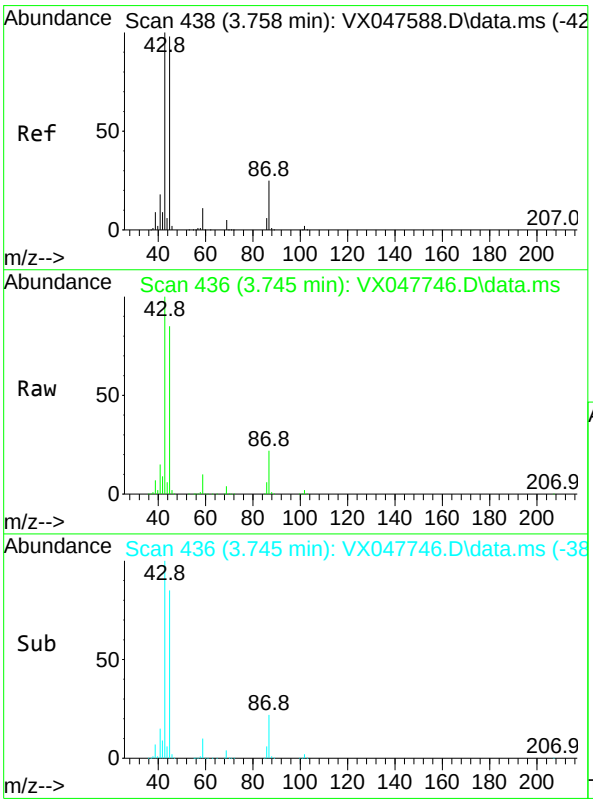
Ion	Ratio	Lower	Upper
96	100		
61	141.7	116.2	174.2
98	61.7	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

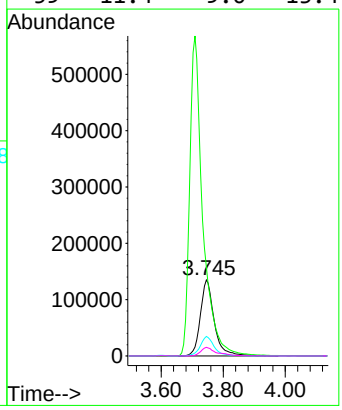
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

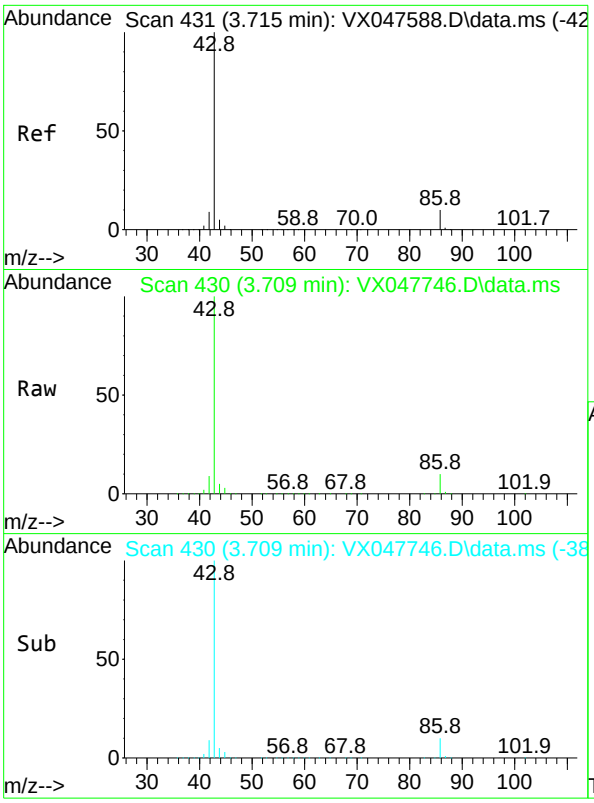


#22
Diisopropyl ether
Concen: 52.658 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 45 Resp: 417196

Ion	Ratio	Lower	Upper
45	100		
43	116.9	81.0	121.4
87	25.7	20.3	30.5
59	11.4	9.0	13.4

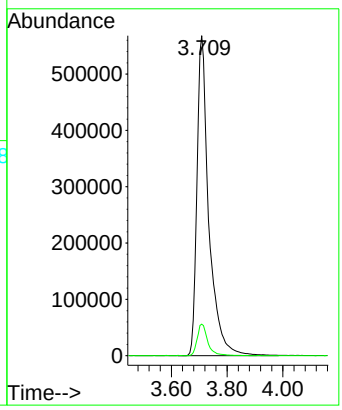




#23
Vinyl Acetate
Concen: 264.433 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 167676

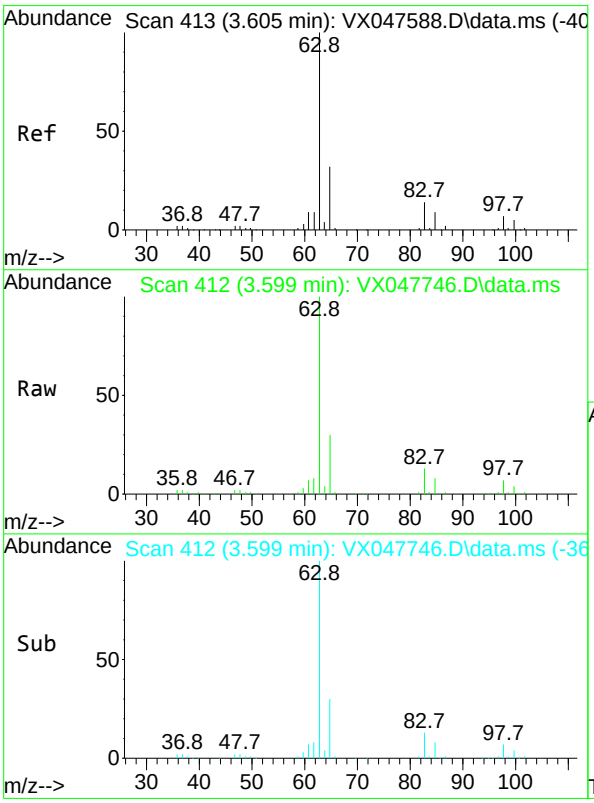
Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

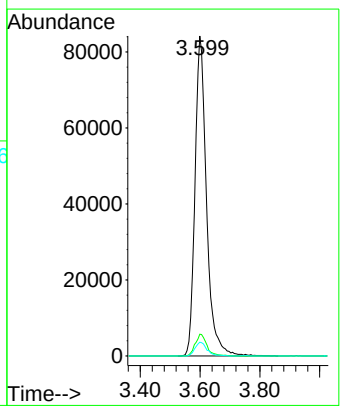
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

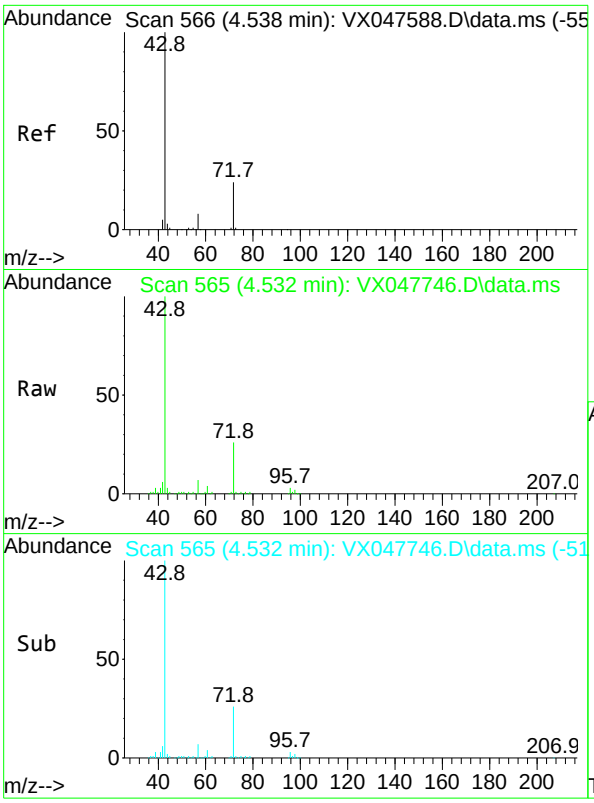


#24
1,1-Dichloroethane
Concen: 53.426 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 224981

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.4	2.3	6.9

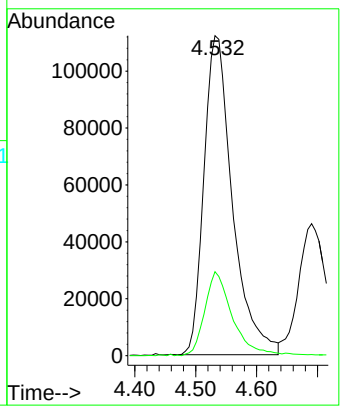




#25
2-Butanone
Concen: 253.647 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 36512

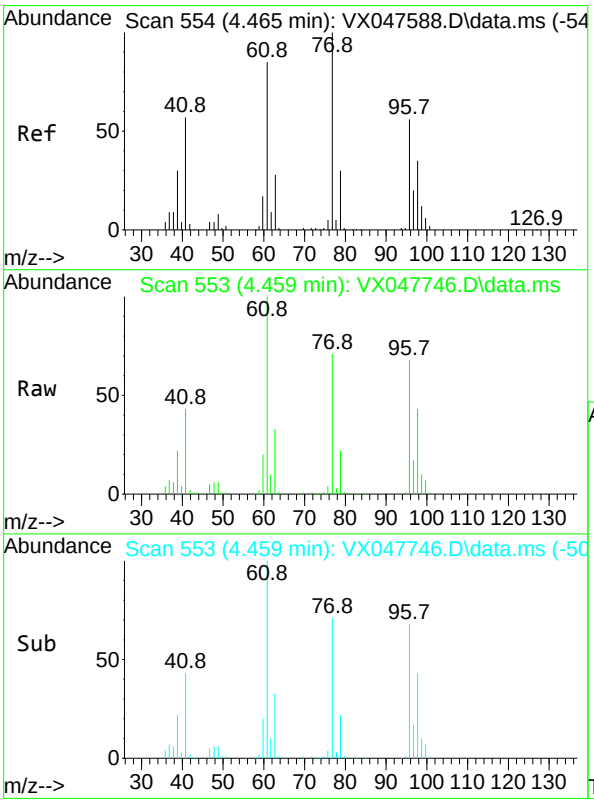
Ion	Ratio	Lower	Upper
43	100		
72	26.1	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

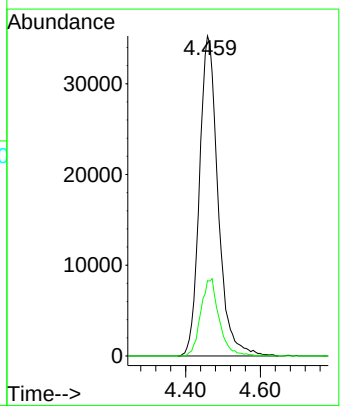
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

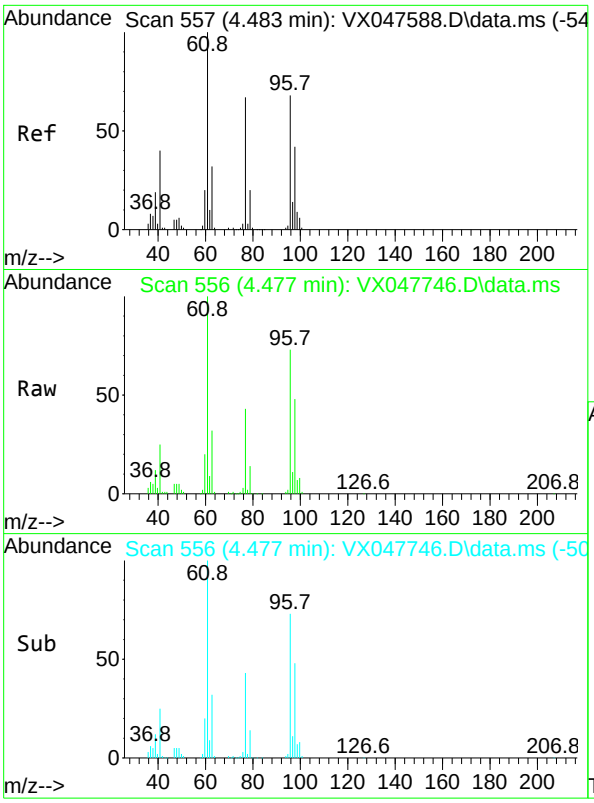


#26
2,2-Dichloropropane
Concen: 34.769 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 77 Resp: 121706

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7

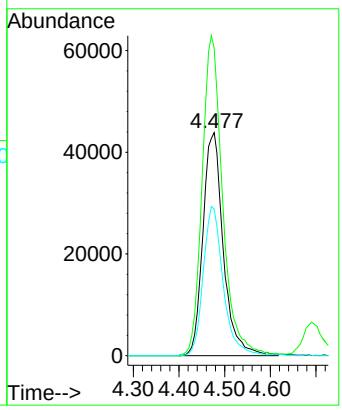




#27
cis-1,2-Dichloroethene
Concen: 52.016 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 13587

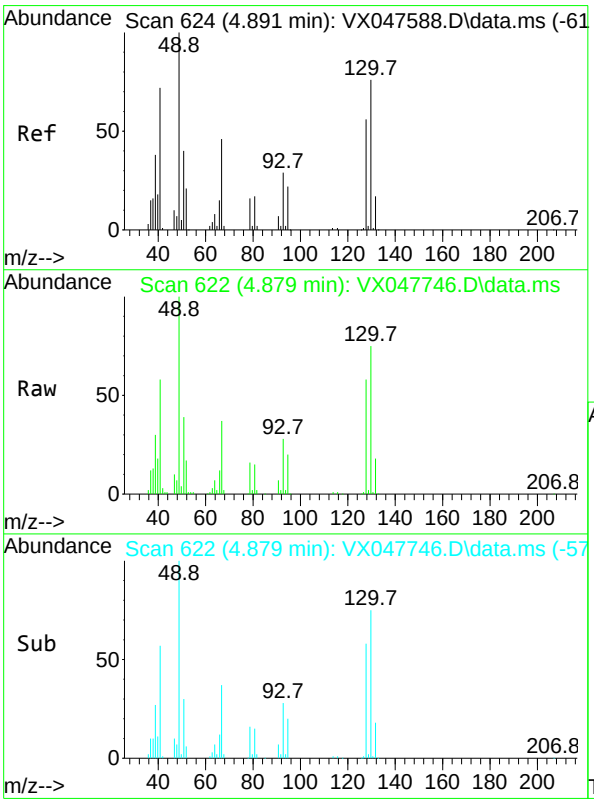
Ion	Ratio	Lower	Upper
96	100		
61	144.0	0.0	303.2
98	65.3	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

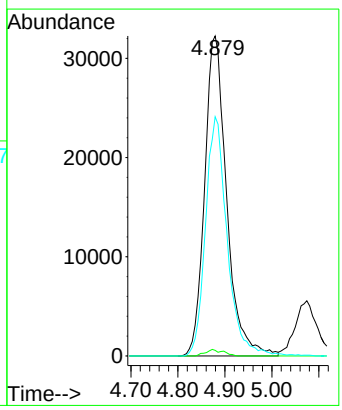
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

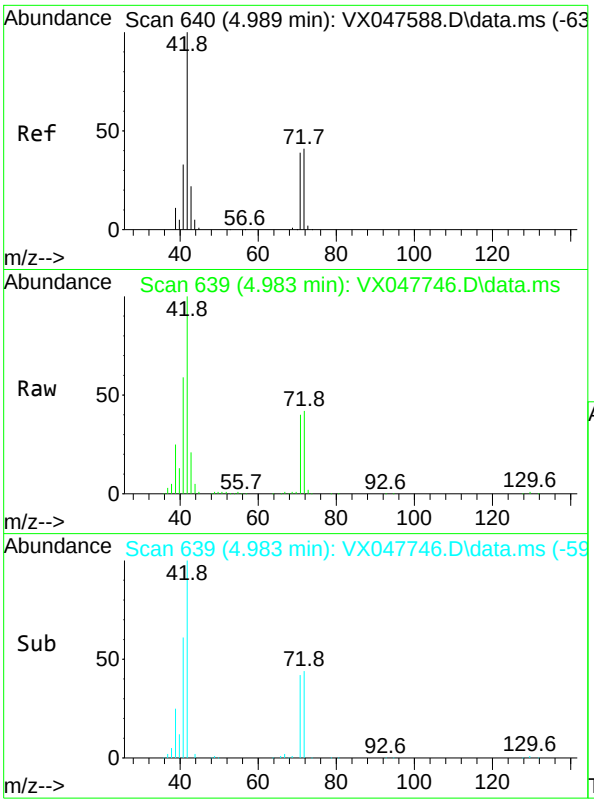


#28
Bromochloromethane
Concen: 57.010 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 49 Resp: 104808

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	73.8	57.8	86.8

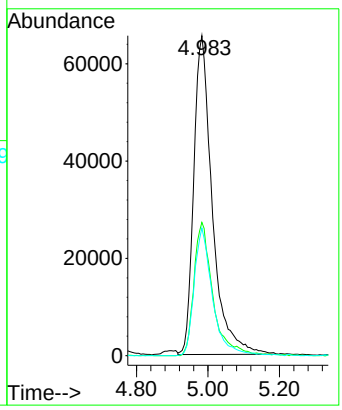




#29
Tetrahydrofuran
Concen: 272.674 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 42 Resp: 23613

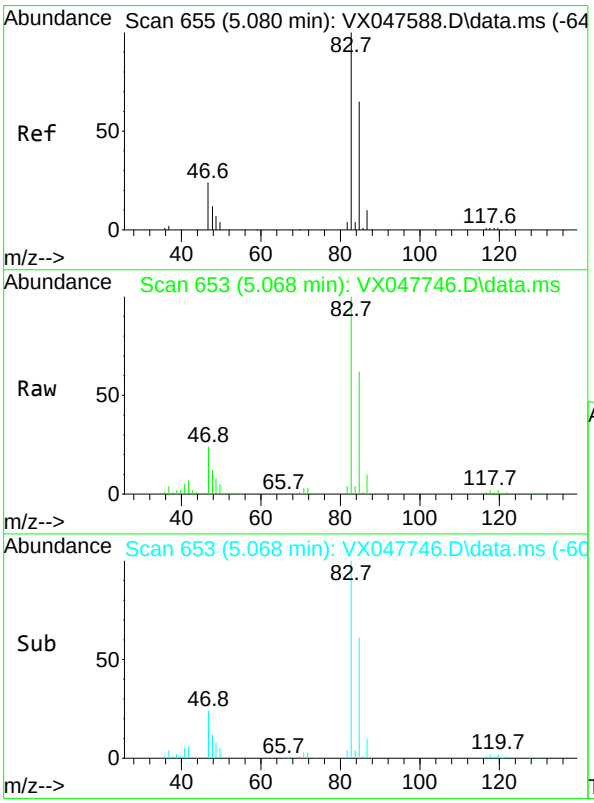
Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.6	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

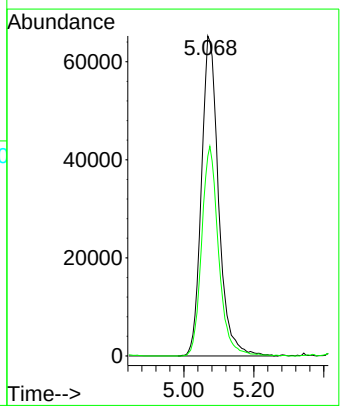
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

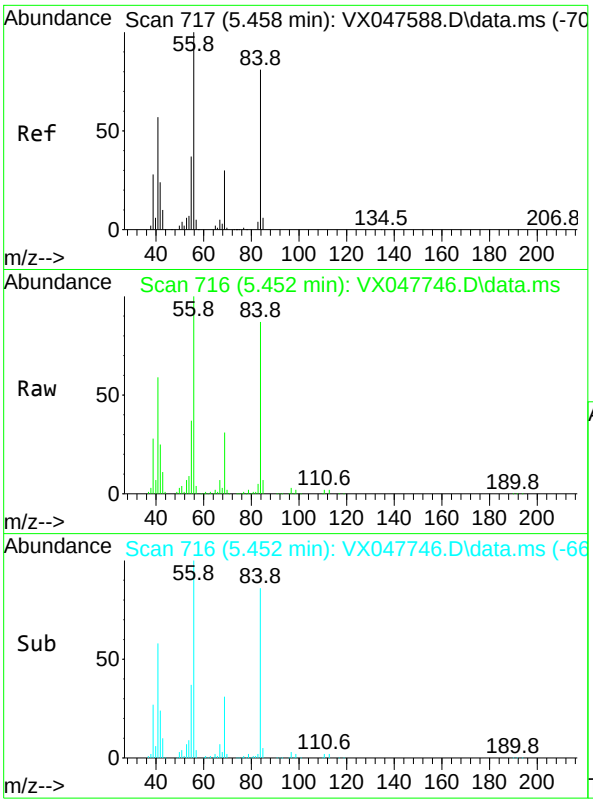


#30
Chloroform
Concen: 52.050 ug/l
RT: 5.068 min Scan# 653
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 221493

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.8	77.6

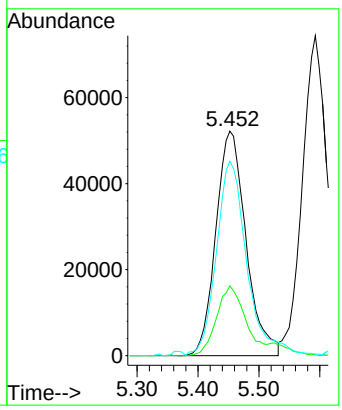




#31
Cyclohexane
Concen: 51.224 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 56 Resp: 17965

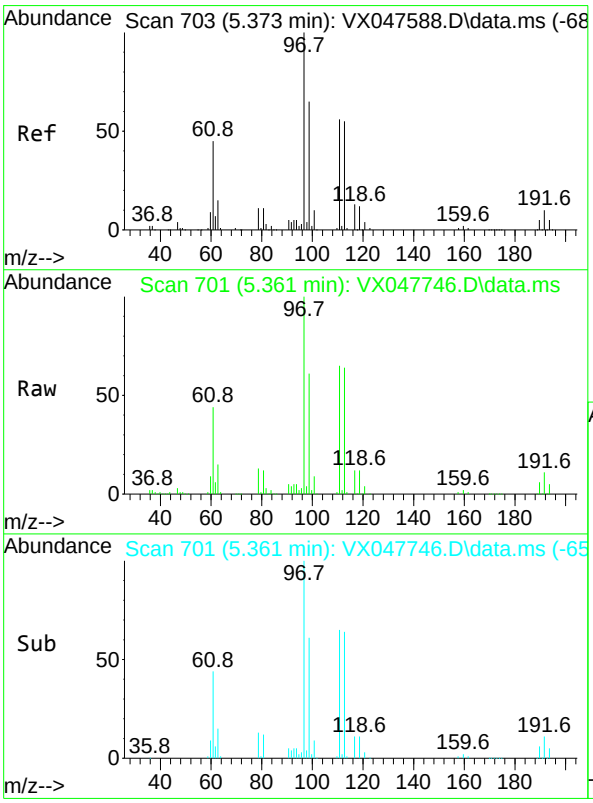
Ion	Ratio	Lower	Upper
56	100		
69	30.8	23.8	35.8
84	84.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

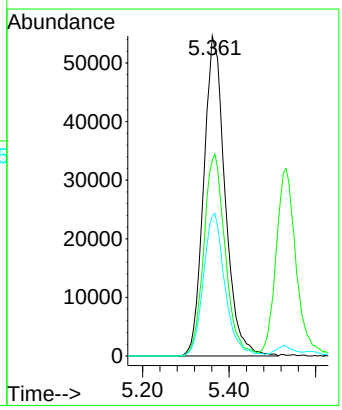
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

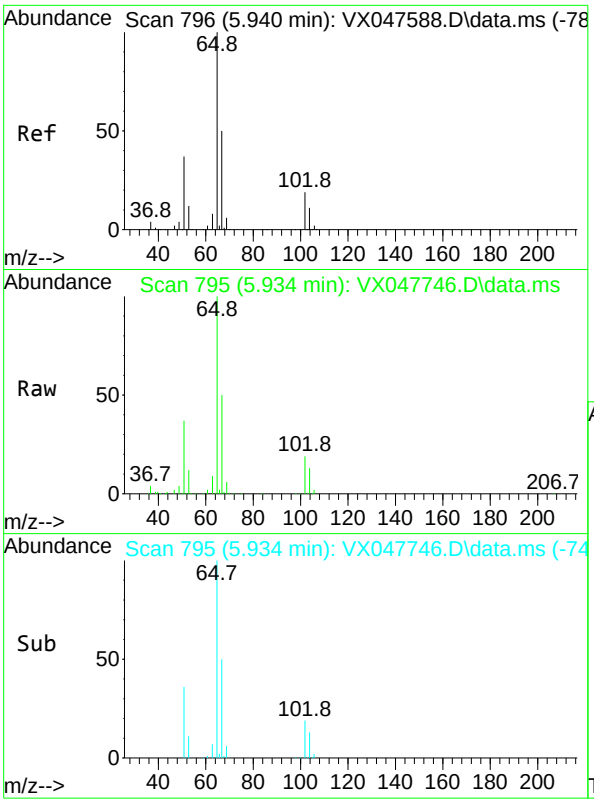


#32
1,1,1-Trichloroethane
Concen: 51.890 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 97 Resp: 187296

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	44.8	35.8	53.8

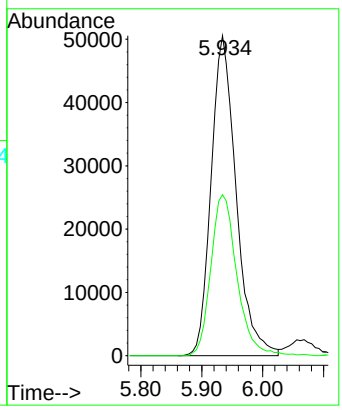




#33
1,2-Dichloroethane-d4
Concen: 54.210 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 65 Resp: 14388

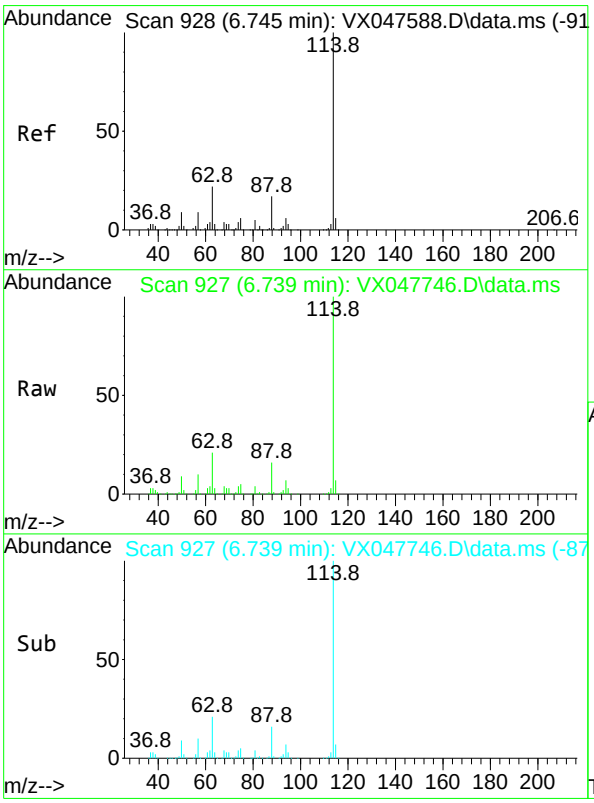
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

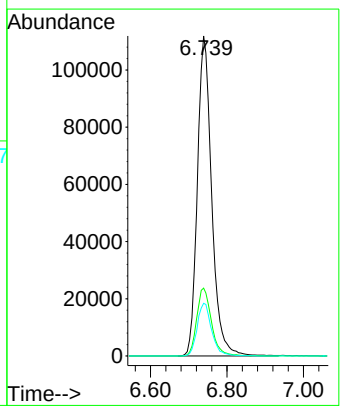
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

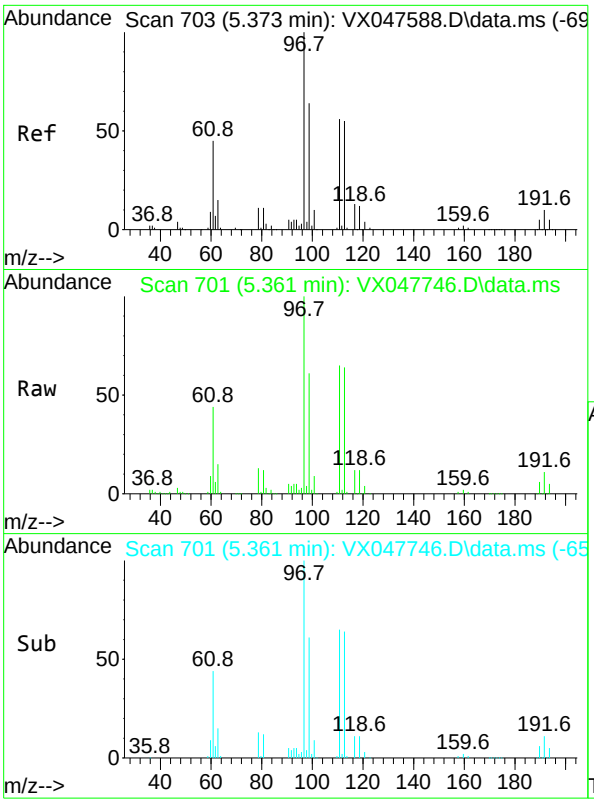


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:114 Resp: 290663

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.4	0.0	34.2

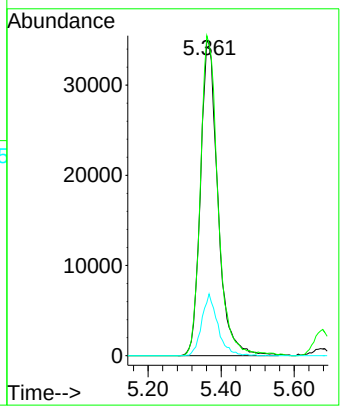




#35
Dibromofluoromethane
Concen: 59.312 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:113 Resp: 11562

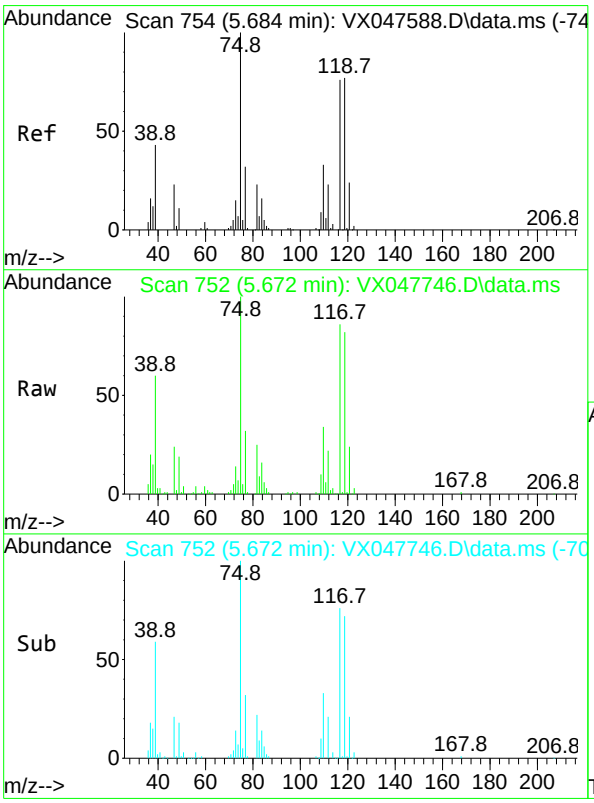
Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

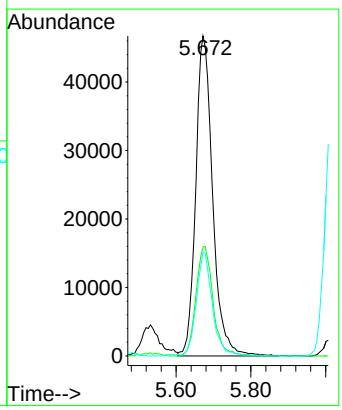
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

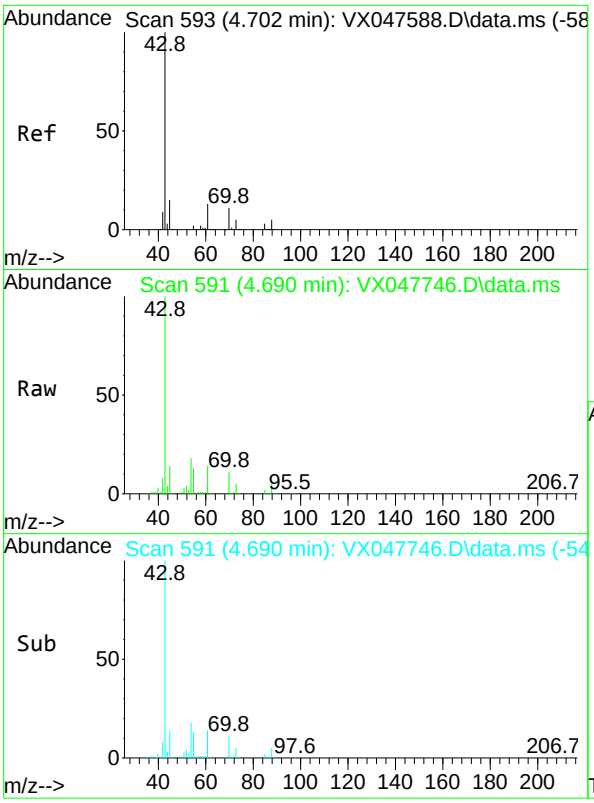


#36
1,1-Dichloropropene
Concen: 51.432 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 146503

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5

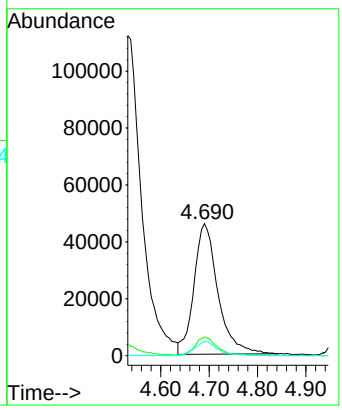




#37
Ethyl Acetate
Concen: 51.660 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 15755

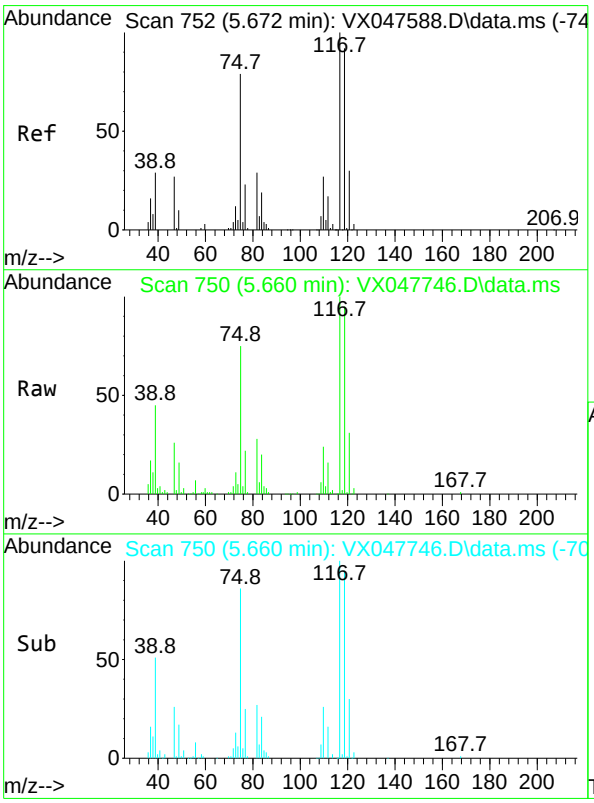
Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.8	14.8
70	10.4	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

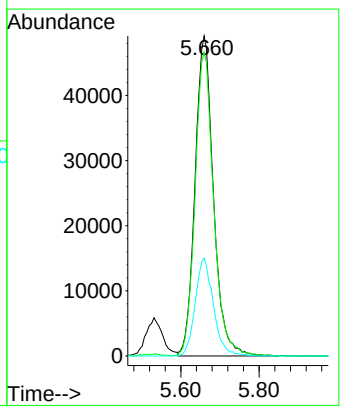
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

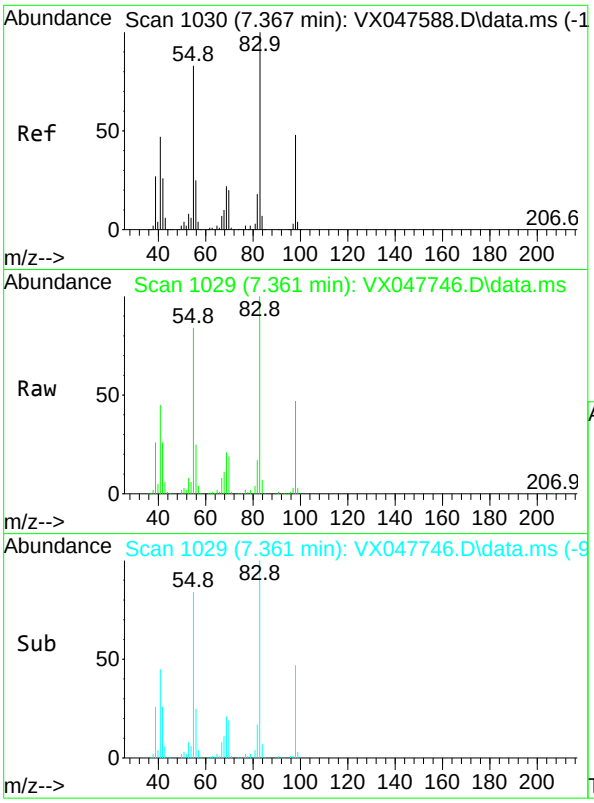


#38
Carbon Tetrachloride
Concen: 51.986 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 160891

Ion	Ratio	Lower	Upper
117	100		
119	94.8	73.4	110.2
121	30.6	23.8	35.6

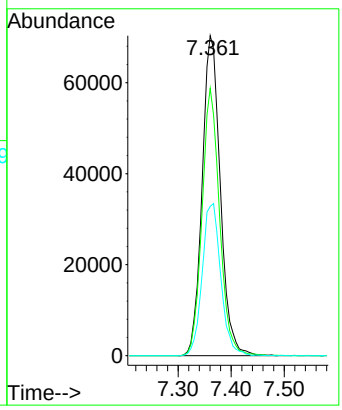




#39
Methylcyclohexane
Concen: 51.777 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 16741

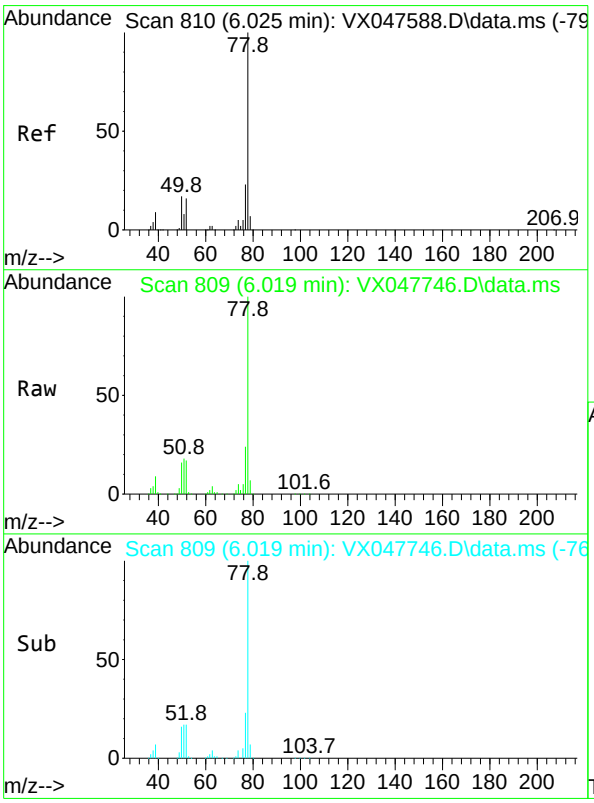
Ion	Ratio	Lower	Upper
83	100		
55	83.5	66.4	99.6
98	46.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

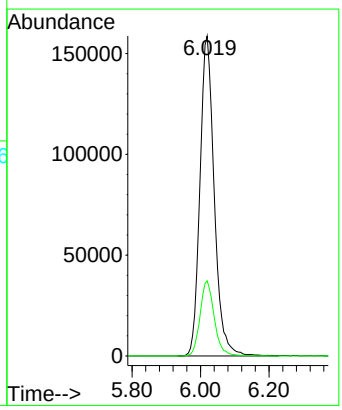
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

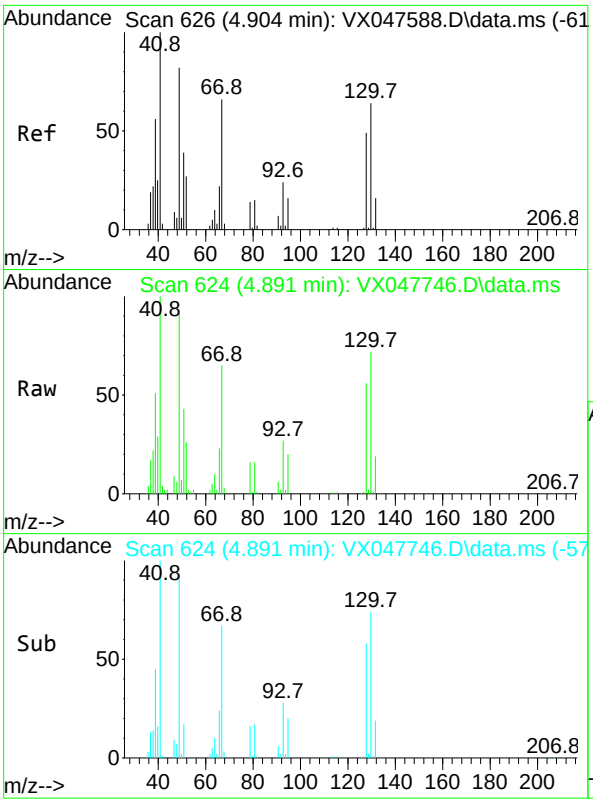


#40
Benzene
Concen: 53.223 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 78 Resp: 460455

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

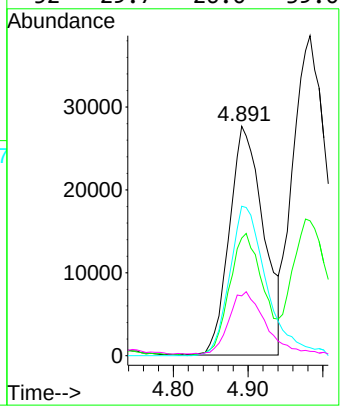




#41
Methacrylonitrile
Concen: 55.742 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 8776

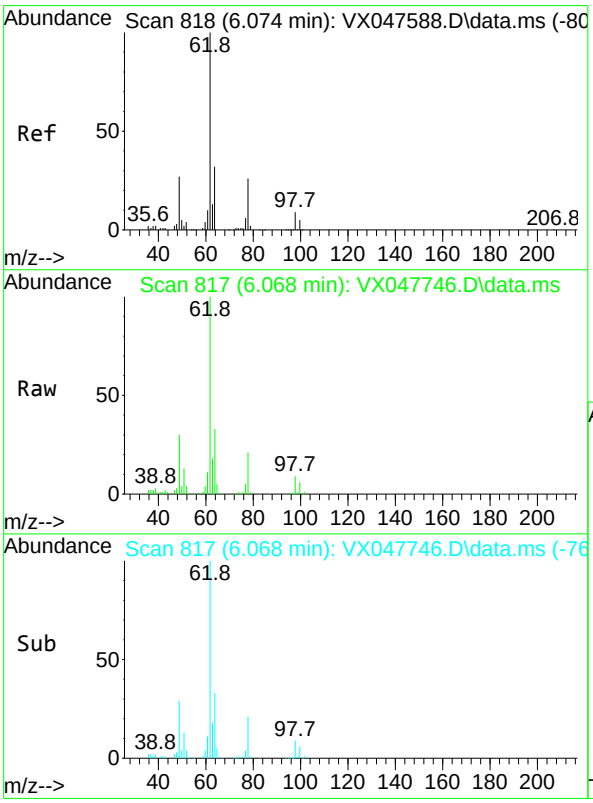
Ion	Ratio	Lower	Upper
41	100		
39	53.4	43.3	64.9
67	70.6	58.6	87.8
52	29.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

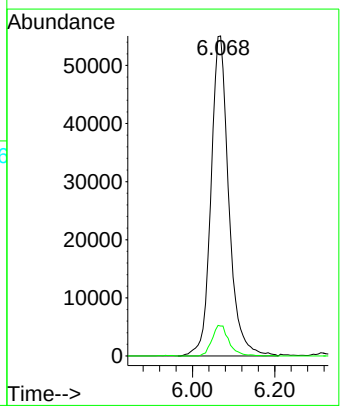
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

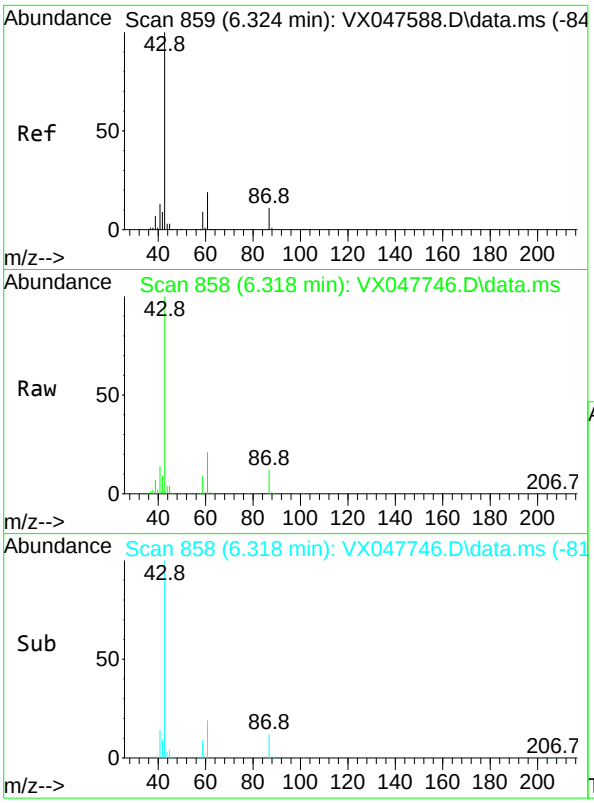


#42
1,2-Dichloroethane
Concen: 50.209 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 165276

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0

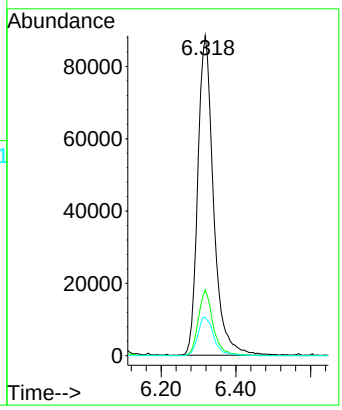




#43
Isopropyl Acetate
Concen: 51.528 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 25774

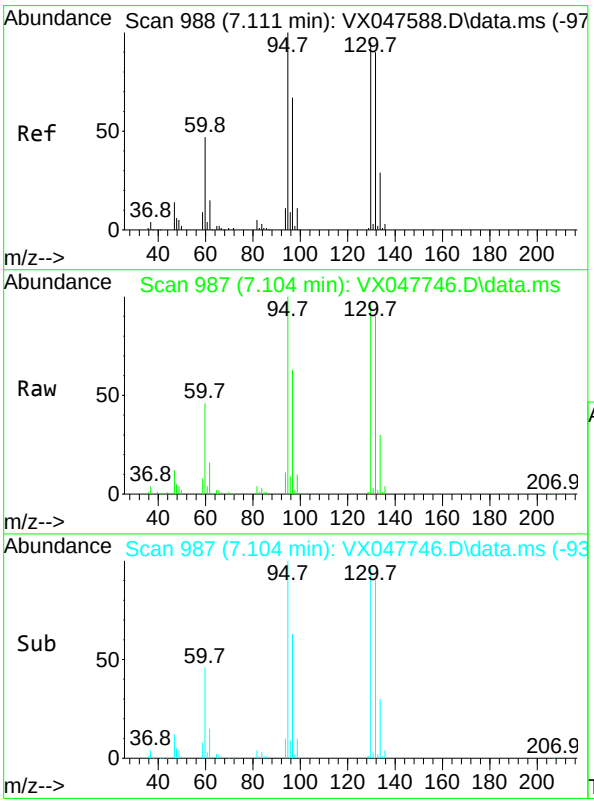
Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.2	22.8
87	12.4	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

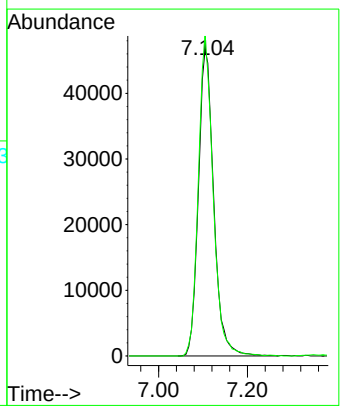
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

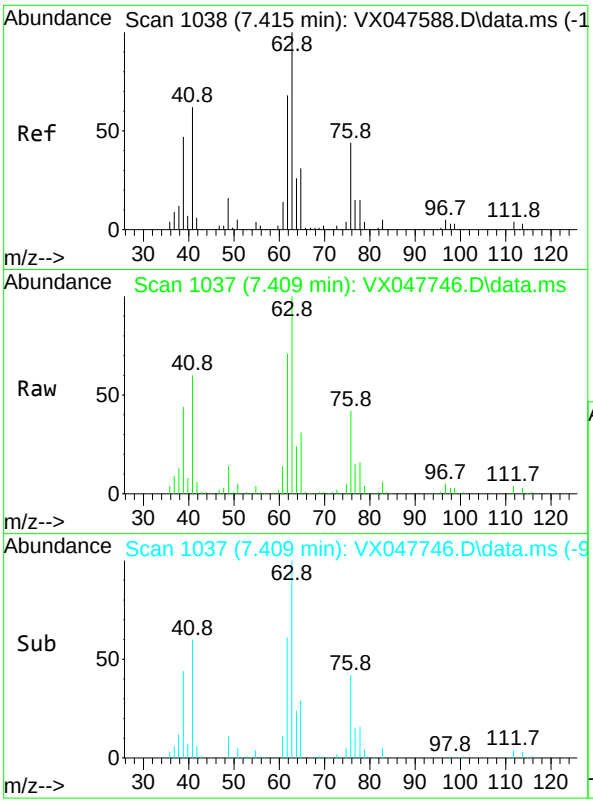


#44
Trichloroethene
Concen: 53.736 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:130 Resp: 112394

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	210.8

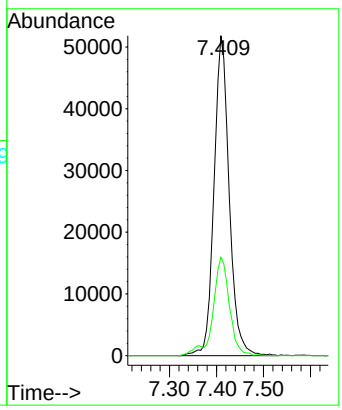




#45
1,2-Dichloropropane
Concen: 52.565 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 11644

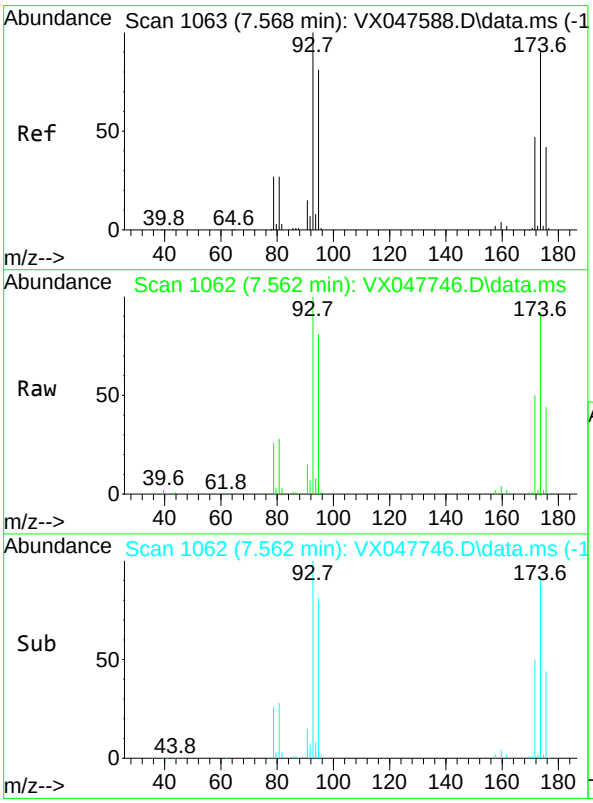
Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

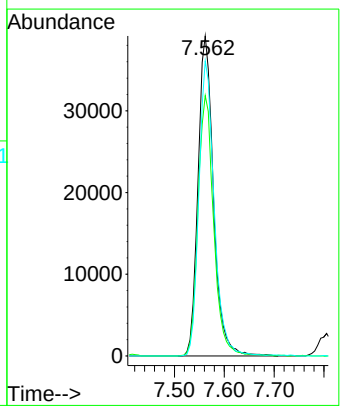
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

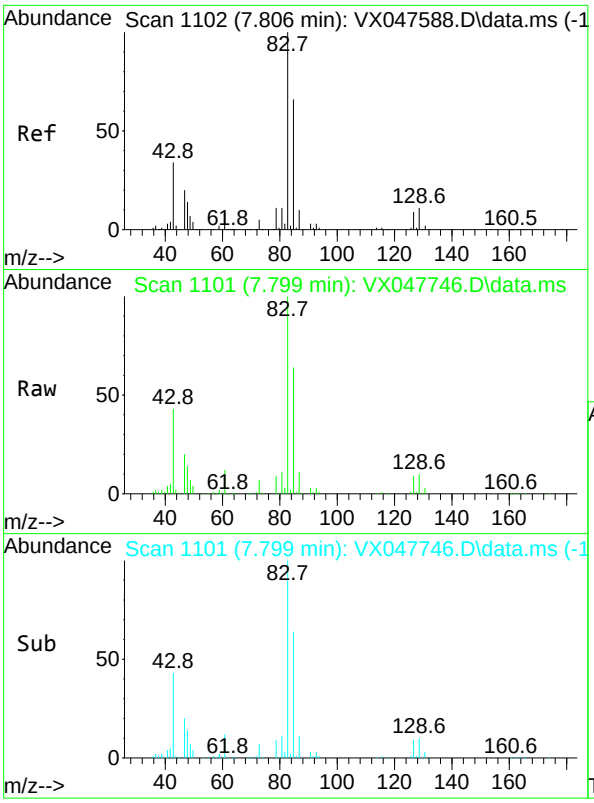


#46
Dibromomethane
Concen: 52.418 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 93 Resp: 84502

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.0	97.6
174	91.4	71.6	107.4

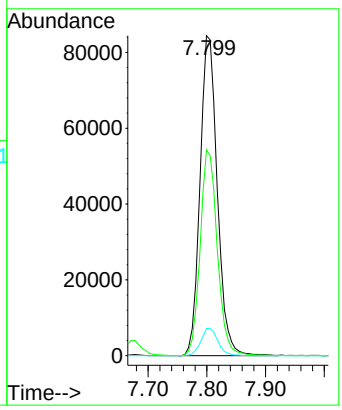




#47
Bromodichloromethane
Concen: 51.915 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 17270

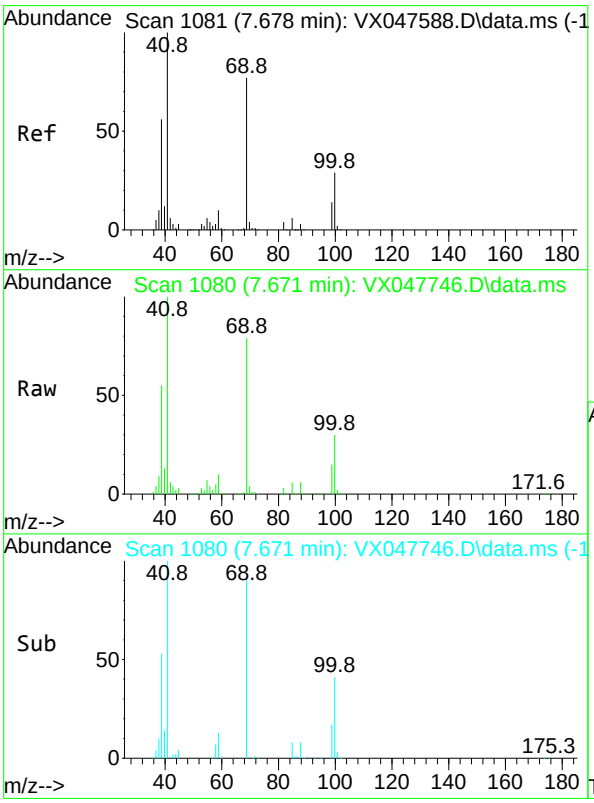
Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
127	8.5	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

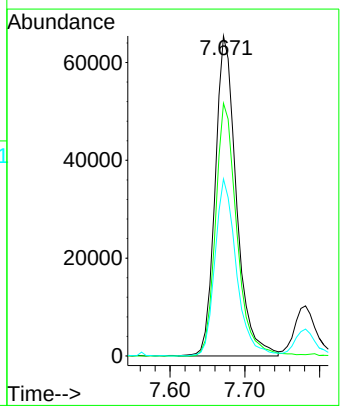
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

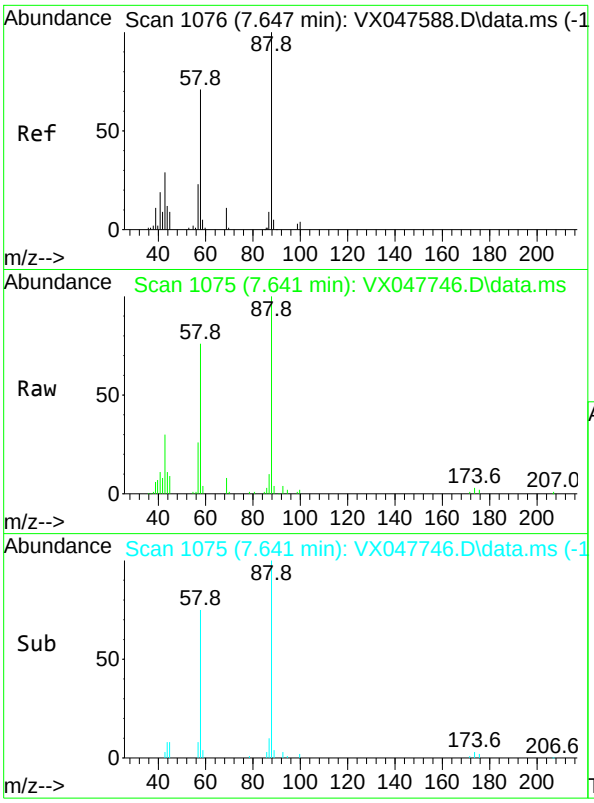


#48
Methyl methacrylate
Concen: 51.974 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 129497

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.9	45.8	68.6

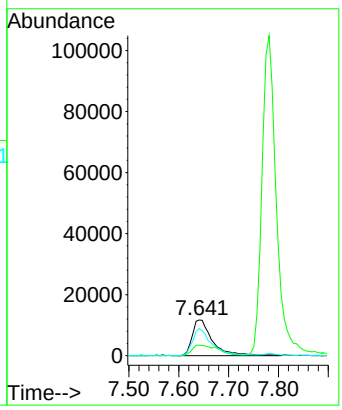




#49
1,4-Dioxane
Concen: 1306.764 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 88 Resp: 3290

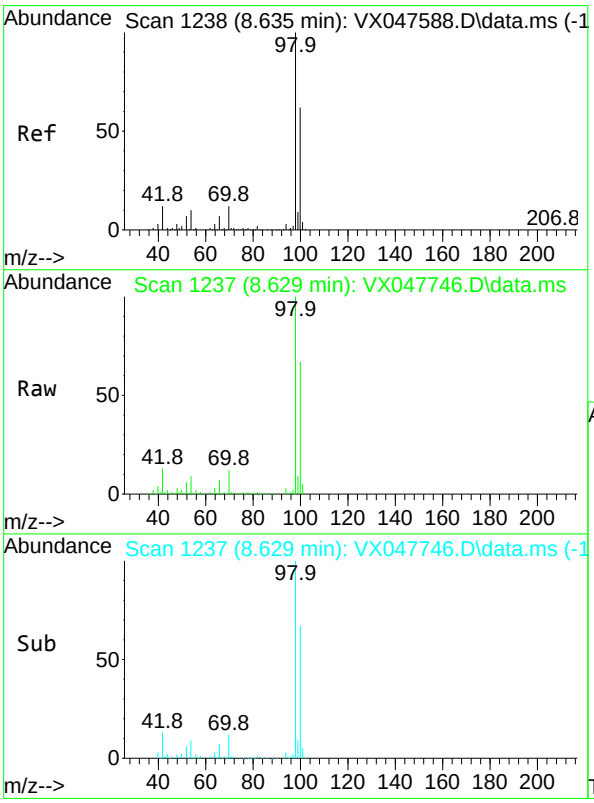
Ion	Ratio	Lower	Upper
88	100		
43	38.2	30.2	45.2
58	73.3	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

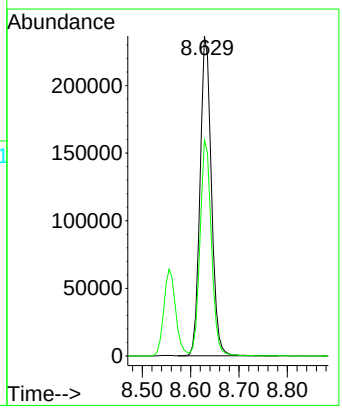
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

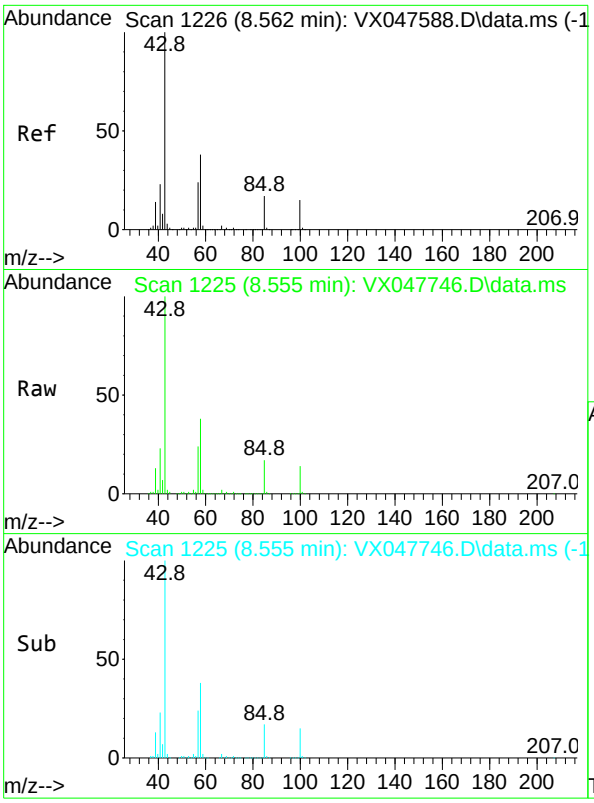


#50
Toluene-d8
Concen: 57.106 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 98 Resp: 385188

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4

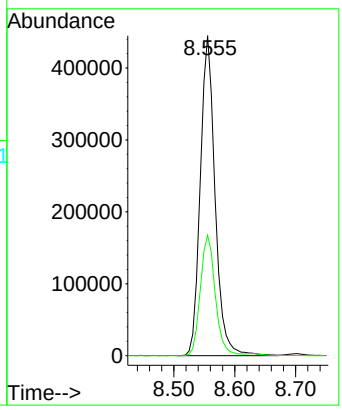




#51
4-Methyl-2-Pentanone
Concen: 270.171 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 74927

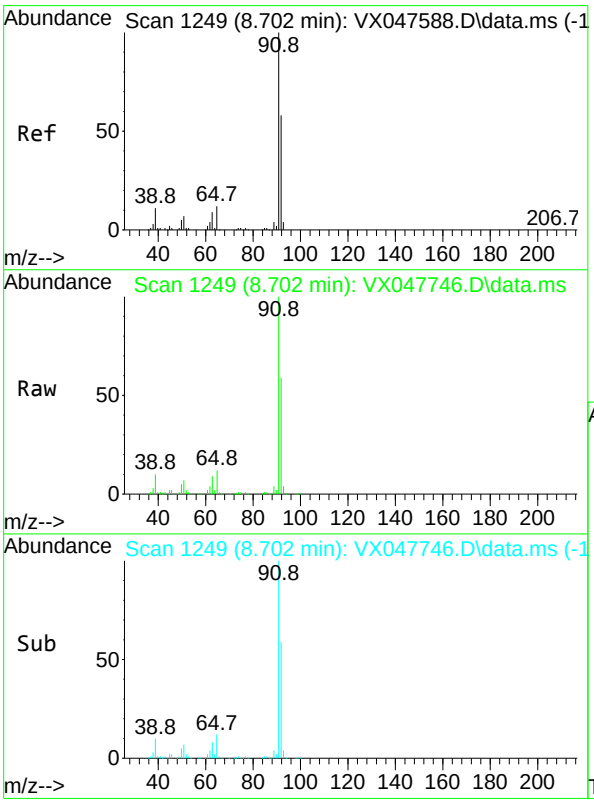
Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

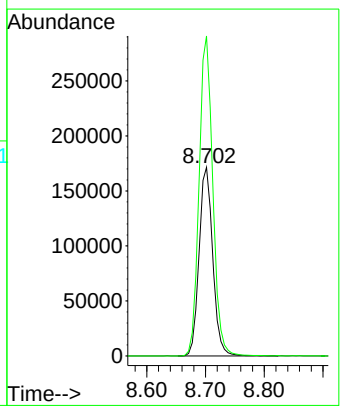
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

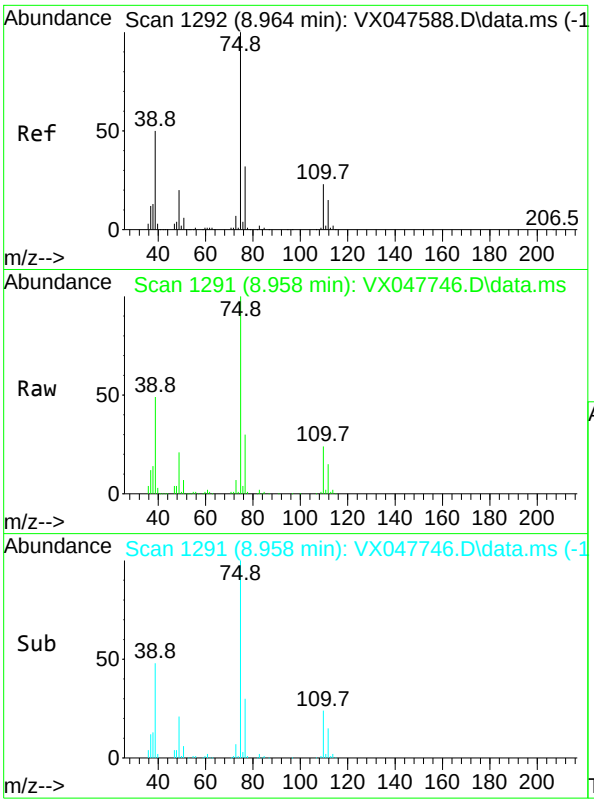


#52
Toluene
Concen: 51.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 92 Resp: 276160

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7

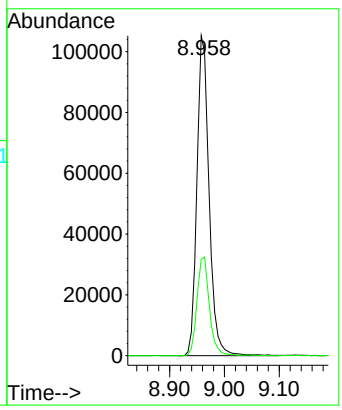




#53
t-1,3-Dichloropropene
Concen: 48.037 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 16300

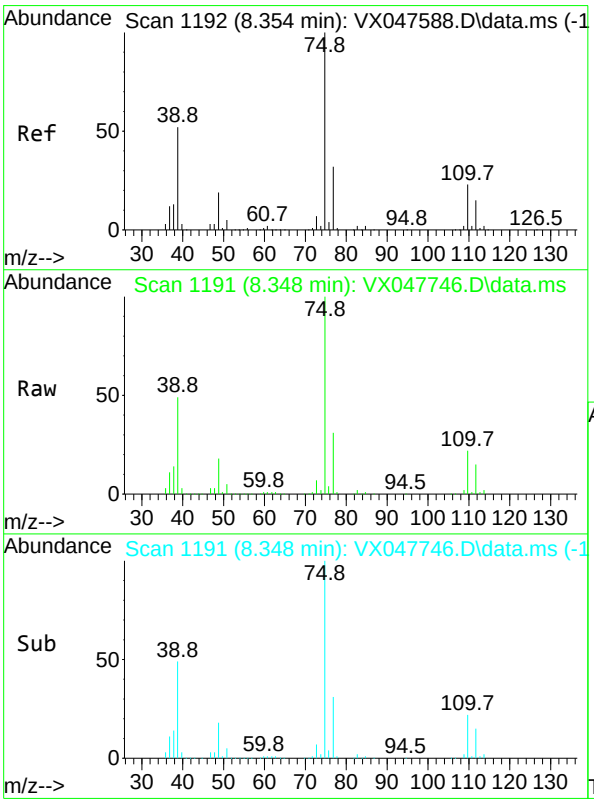
Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

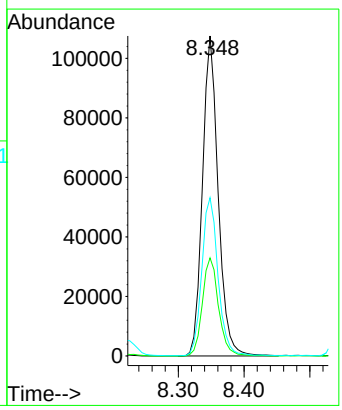
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

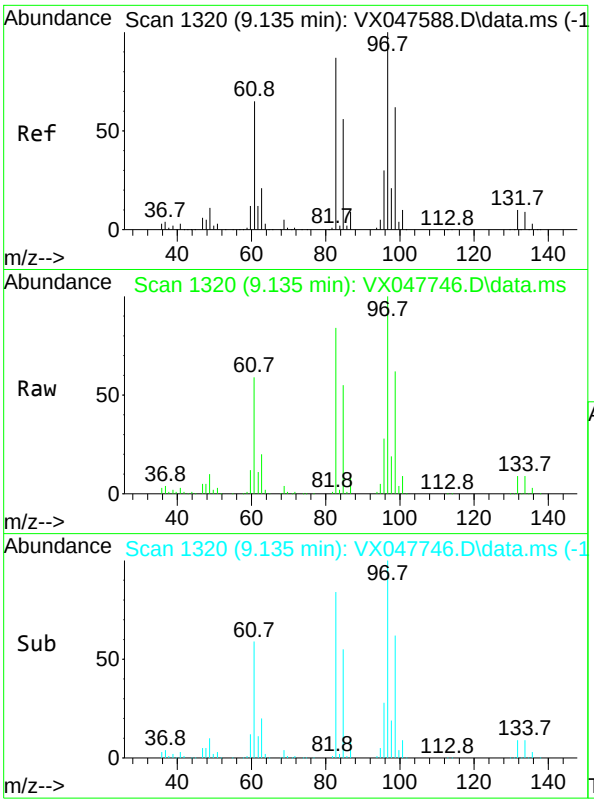


#54
cis-1,3-Dichloropropene
Concen: 49.218 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 178505

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.6
39	48.9	41.4	62.2

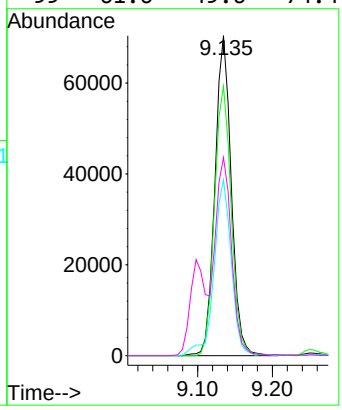




#55
1,1,2-Trichloroethane
Concen: 52.187 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 97 Resp: 10725

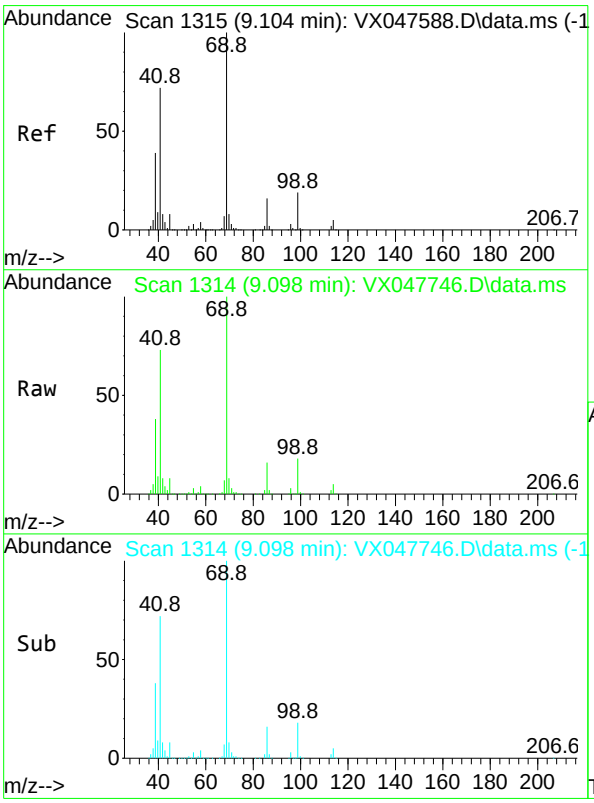
Ion	Ratio	Lower	Upper
97	100		
83	84.2	69.6	104.4
85	55.0	45.0	67.6
99	61.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

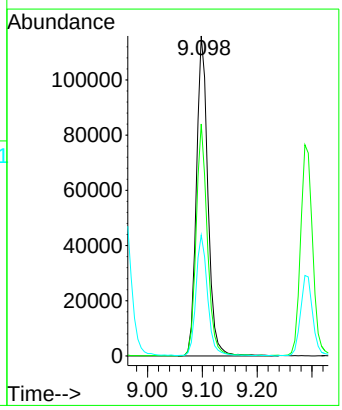
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

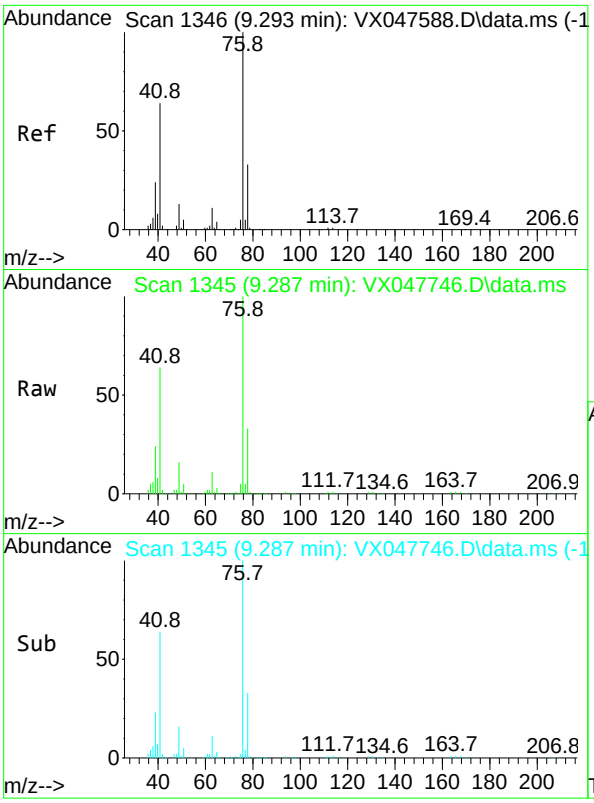


#56
Ethyl methacrylate
Concen: 52.534 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 69 Resp: 169567

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.8	31.5	47.3

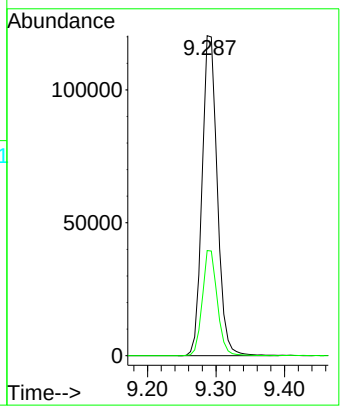




#57
1,3-Dichloropropane
Concen: 52.699 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 76 Resp: 18606

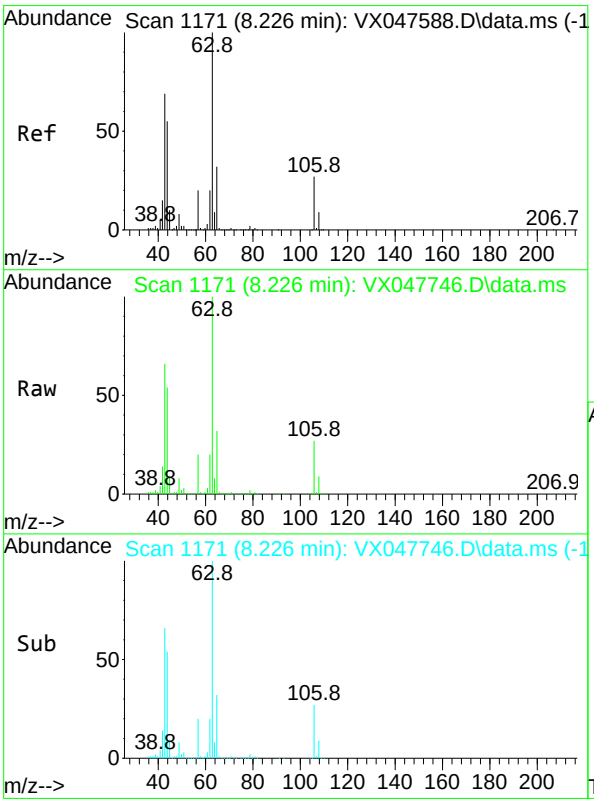
Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

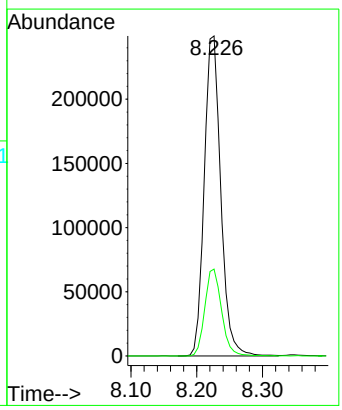
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

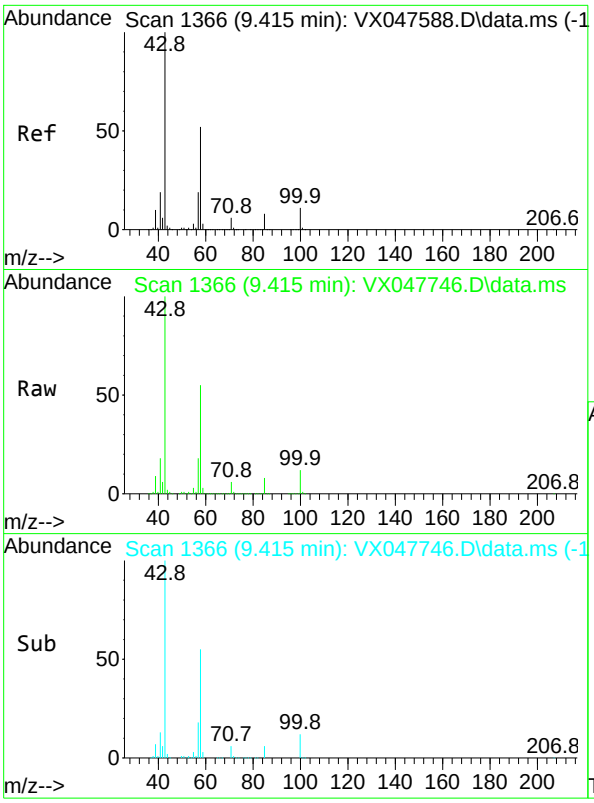


#58
2-Chloroethyl Vinyl ether
Concen: 280.568 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 436211

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

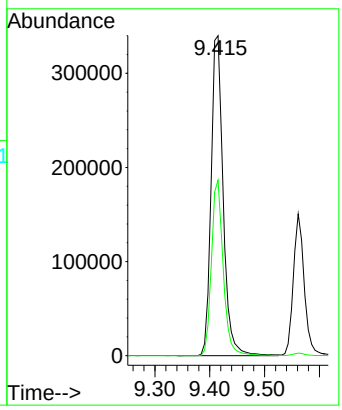




#59
2-Hexanone
Concen: 260.122 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 51811

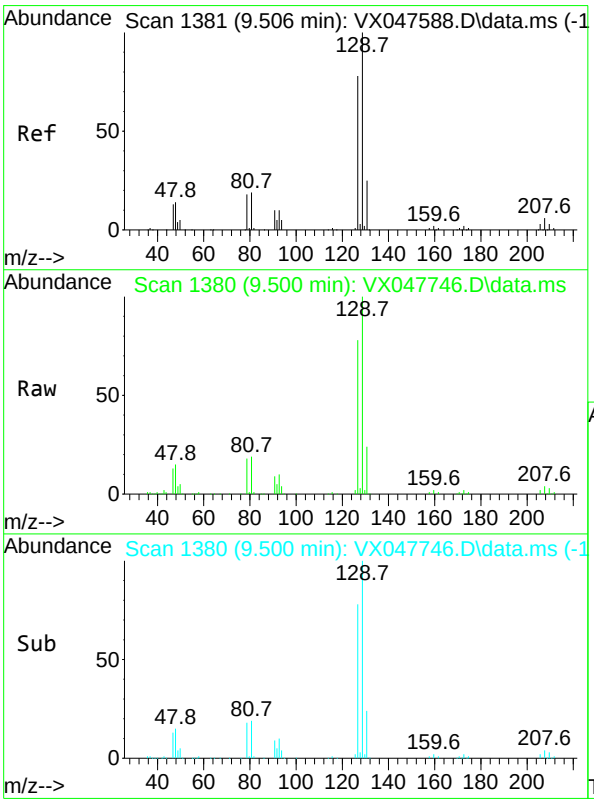
Ion	Ratio	Lower	Upper
43	100		
58	53.4	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

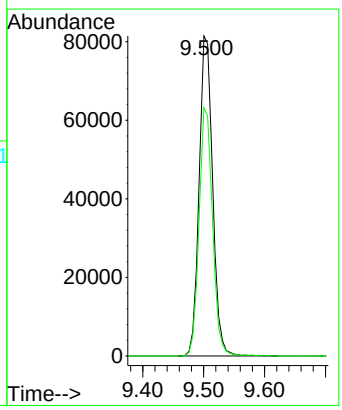
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

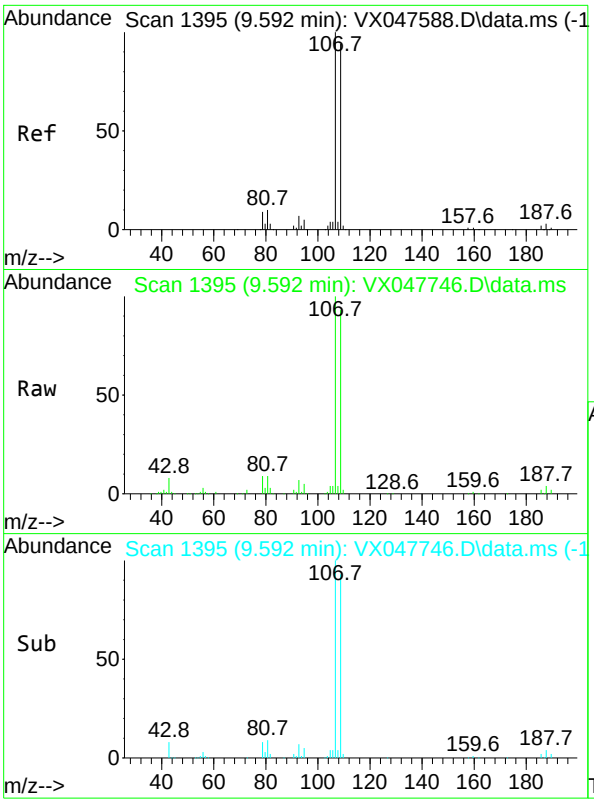


#60
Dibromochloromethane
Concen: 52.954 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:129 Resp: 125404

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2

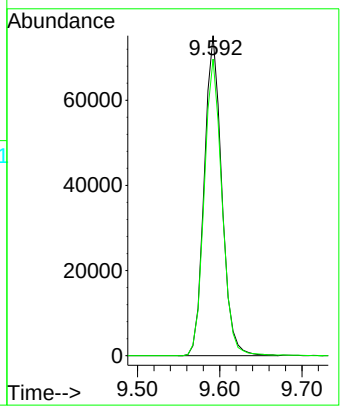




#61
1,2-Dibromoethane
Concen: 53.090 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:107 Resp: 11113

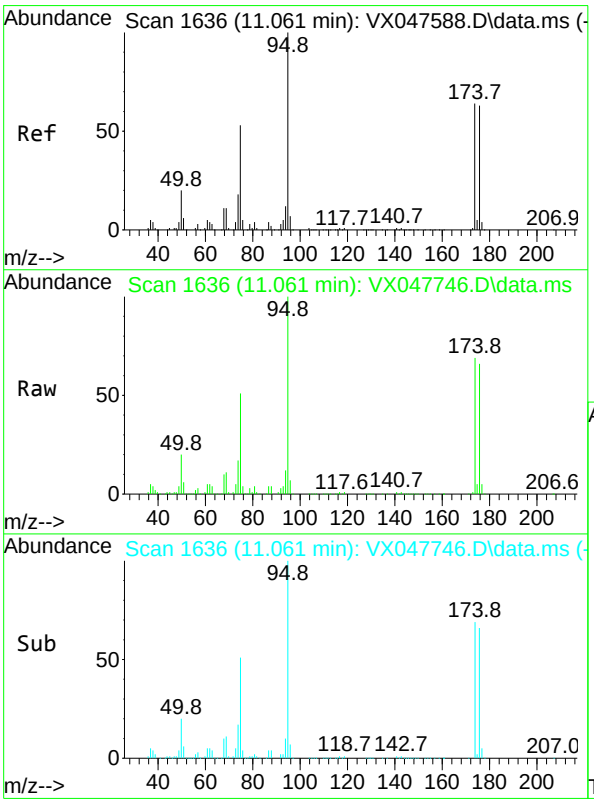
Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

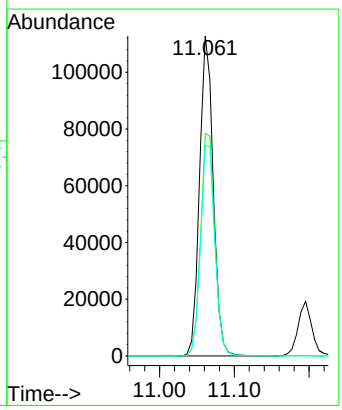
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

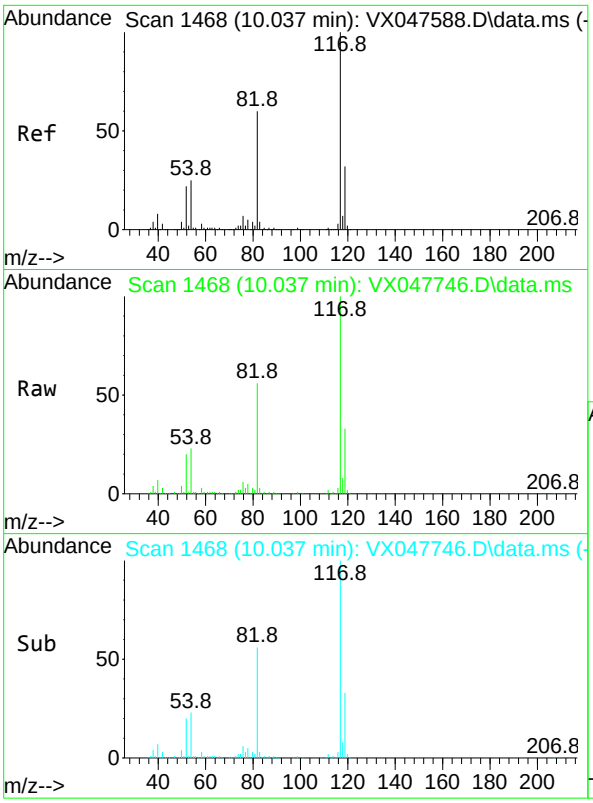


#62
4-Bromofluorobenzene
Concen: 55.994 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 95 Resp: 143339

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	141.6
176	69.0	0.0	138.4

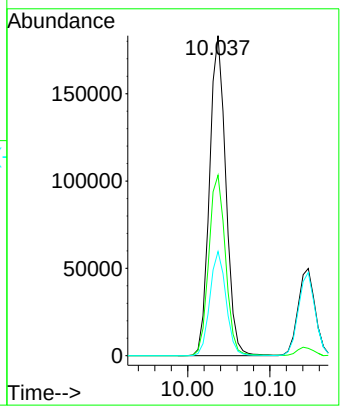




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 25277

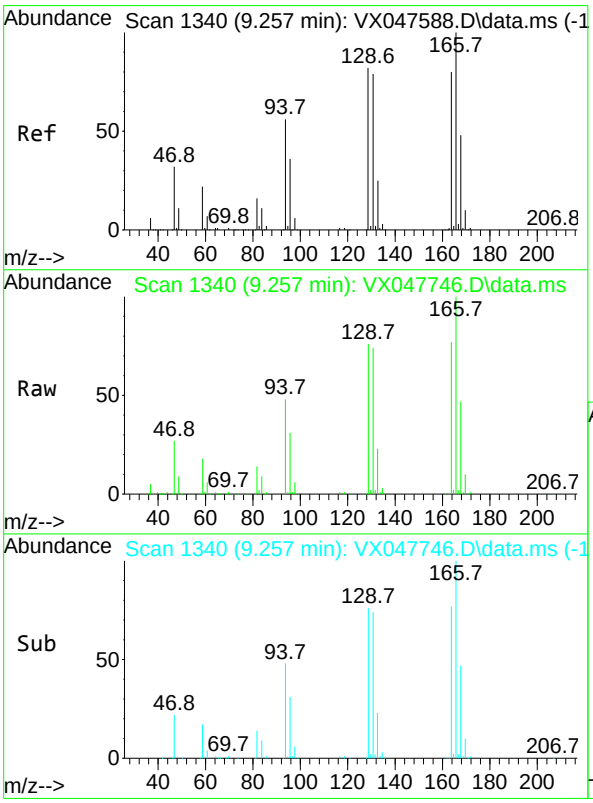
Ion	Ratio	Lower	Upper
117	100		
82	56.4	47.8	71.6
119	32.6	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

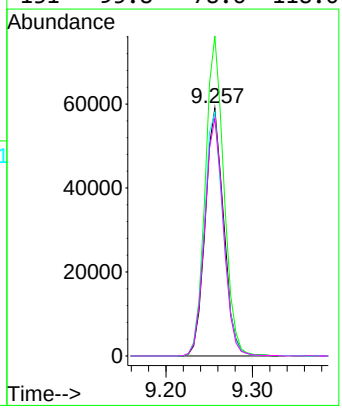
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

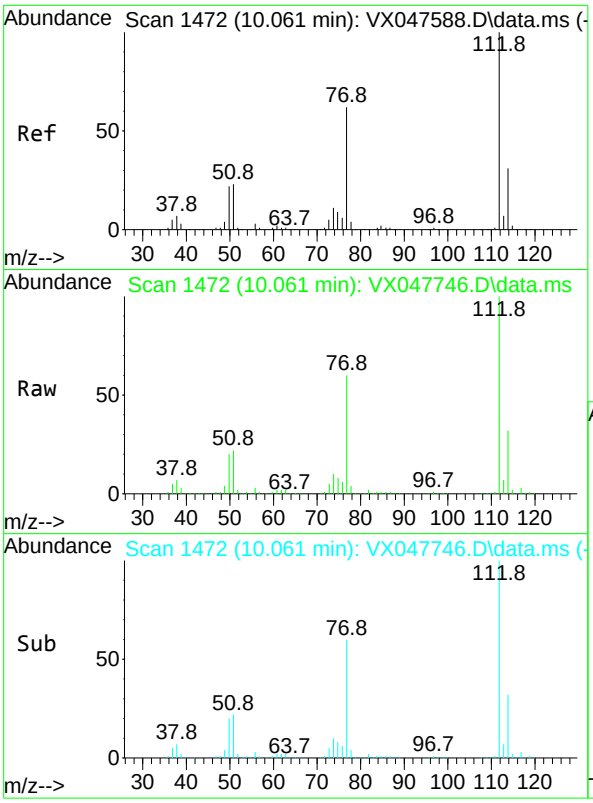


#64
Tetrachloroethene
Concen: 53.073 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:164 Resp: 87453

Ion	Ratio	Lower	Upper
164	100		
166	129.1	100.2	150.2
129	98.3	81.8	122.6
131	95.8	78.6	118.0

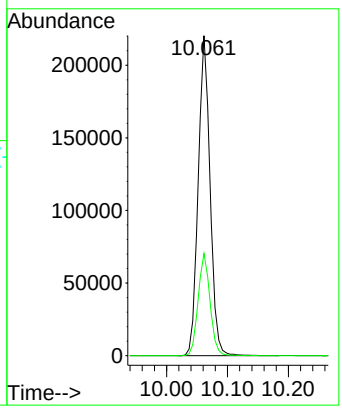




#65
Chlorobenzene
Concen: 51.885 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:112 Resp: 29794

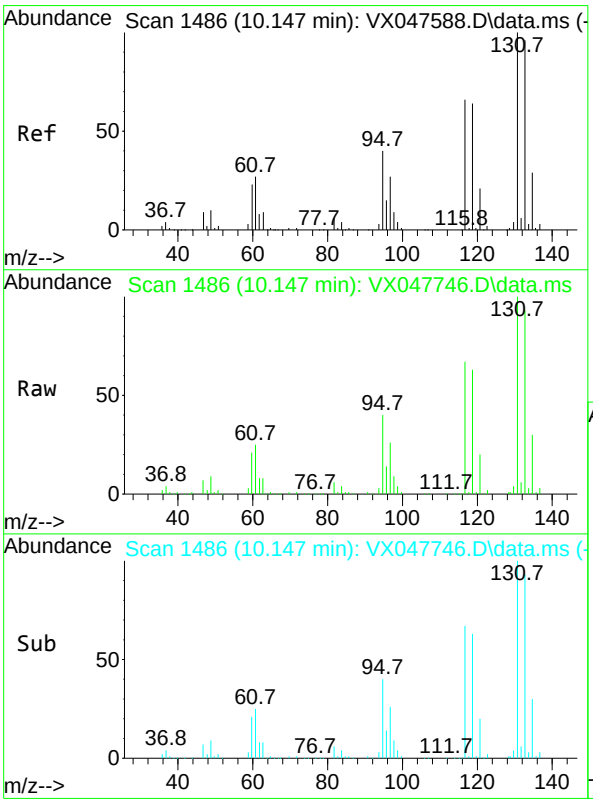
Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

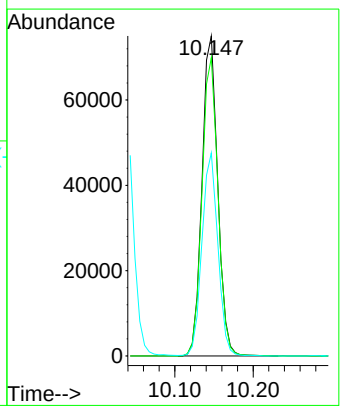
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

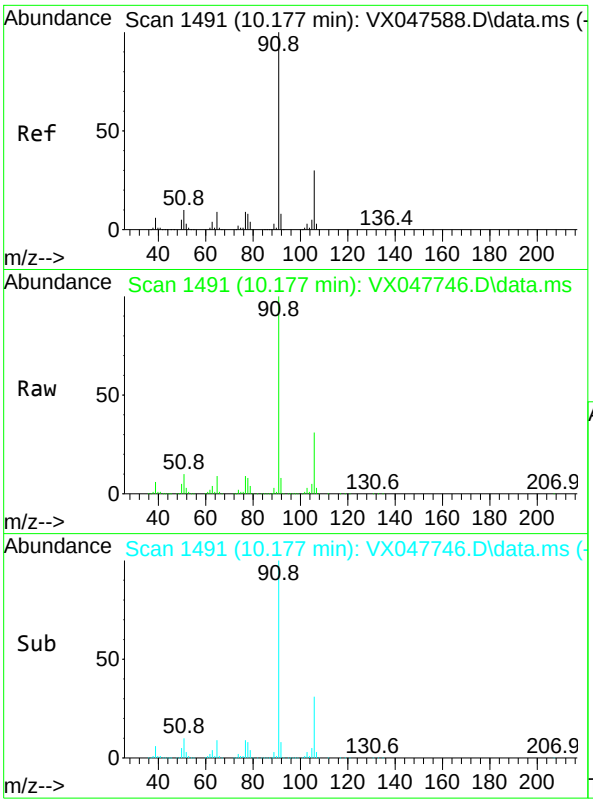


#66
1,1,1,2-Tetrachloroethane
Concen: 52.679 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:131 Resp: 104386

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	64.4	32.0	96.0

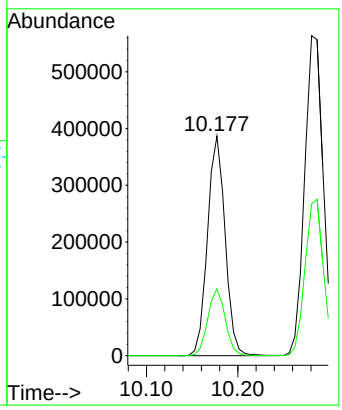




#67
Ethyl Benzene
Concen: 52.120 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 51641

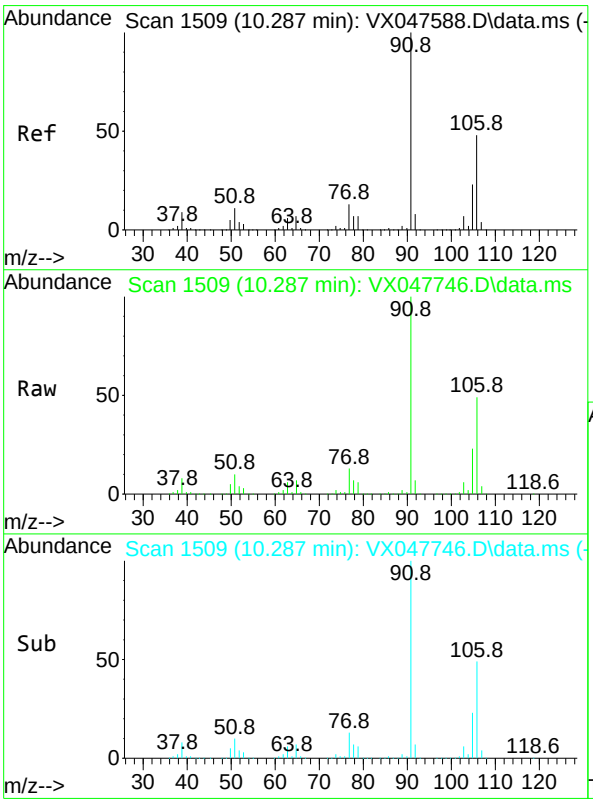
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

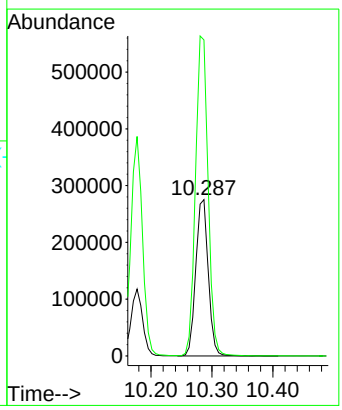
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

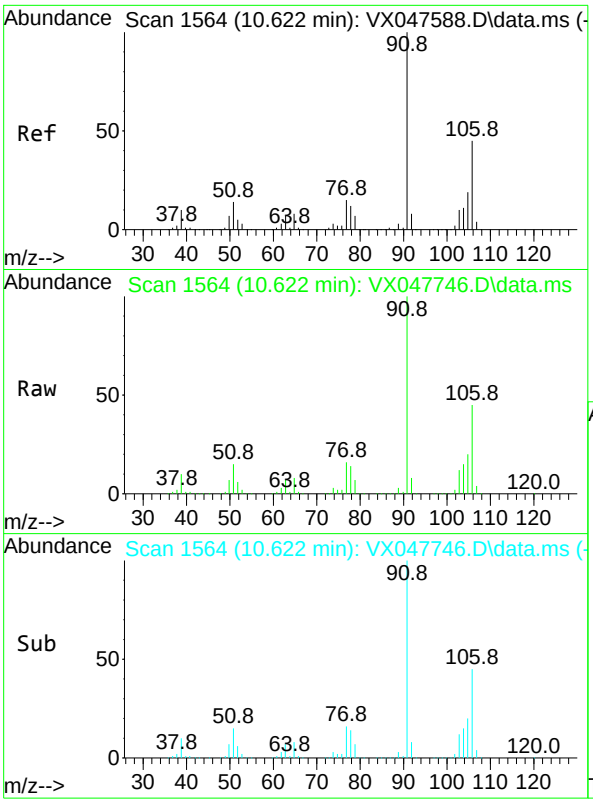


#68
m/p-Xylenes
Concen: 106.017 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:106 Resp: 390979

Ion	Ratio	Lower	Upper
106	100		
91	206.2	167.8	251.8

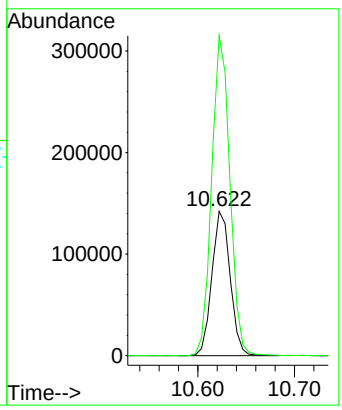




#69
o-Xylene
Concen: 52.481 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:106 Resp: 18720

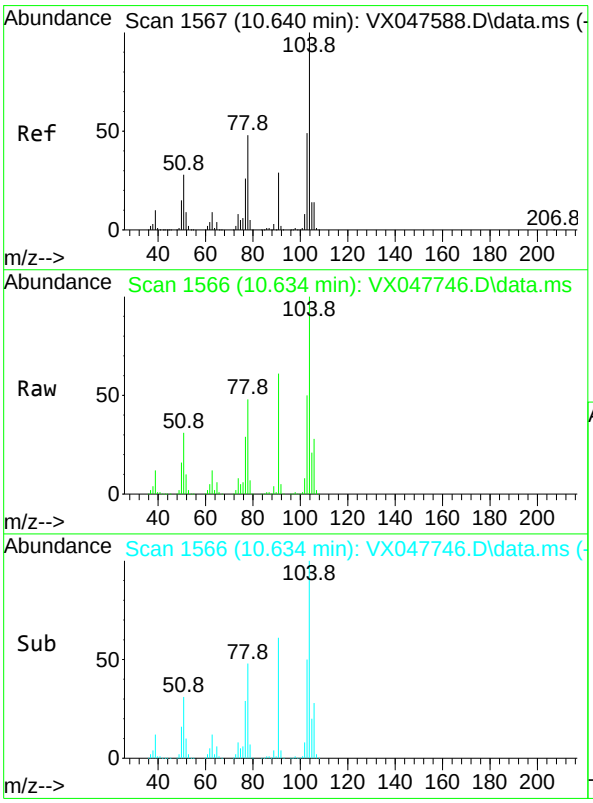
Ion	Ratio	Lower	Upper
106	100		
91	220.0	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

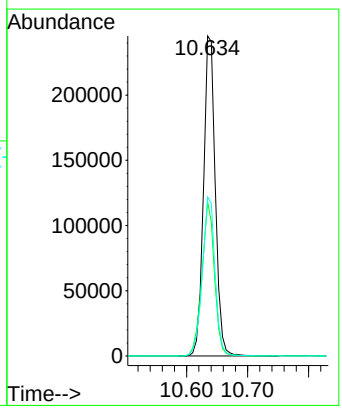
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

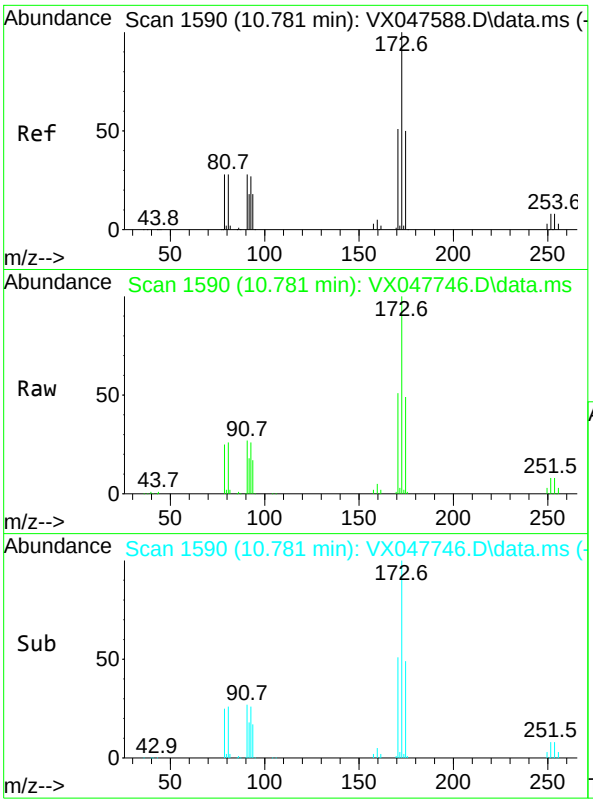


#70
Styrene
Concen: 52.908 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:104 Resp: 330686

Ion	Ratio	Lower	Upper
104	100		
78	51.2	43.1	64.7
103	53.7	43.1	64.7

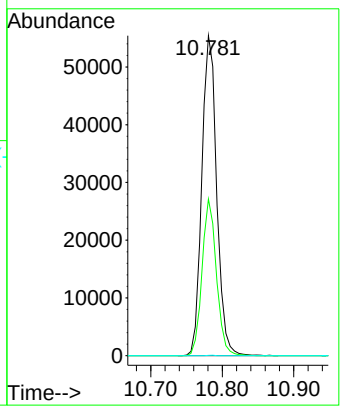




#71
Bromoform
Concen: 54.161 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:173 Resp: 8013

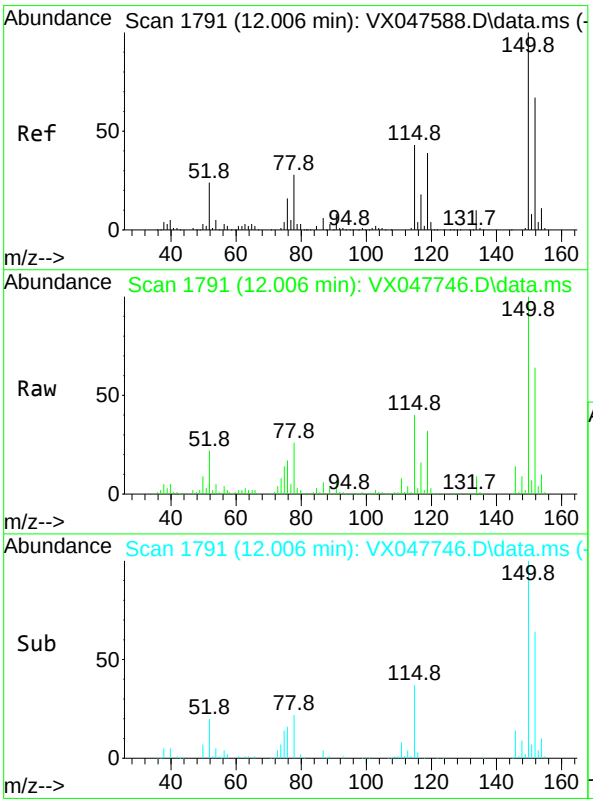
Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

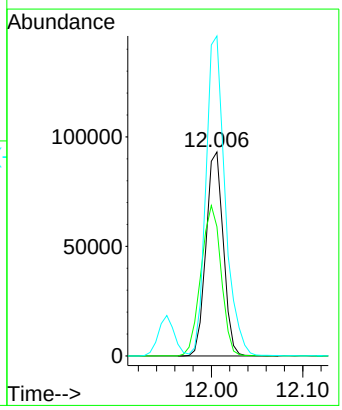
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

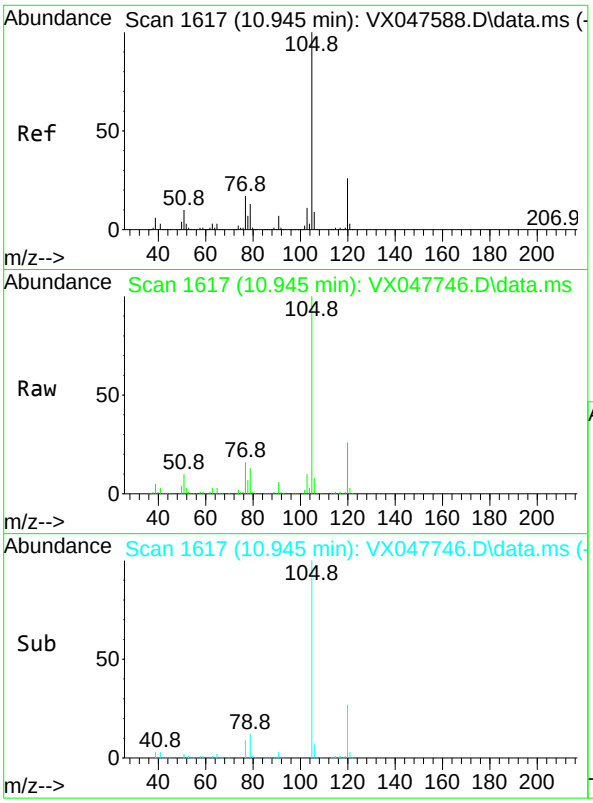


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:152 Resp: 121948

Ion	Ratio	Lower	Upper
152	100		
115	86.0	44.9	134.5
150	173.9	0.0	352.0

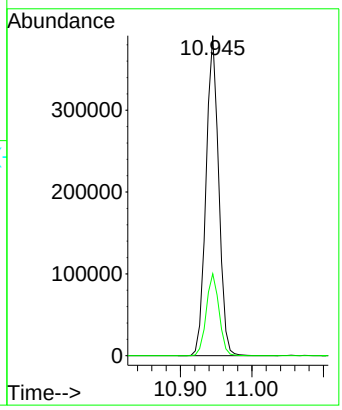




#73
Isopropylbenzene
Concen: 51.938 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 48152

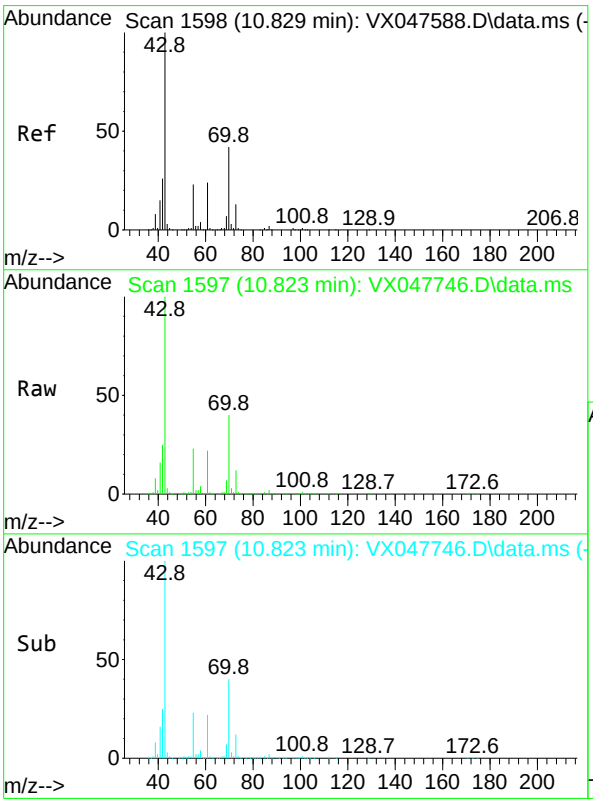
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

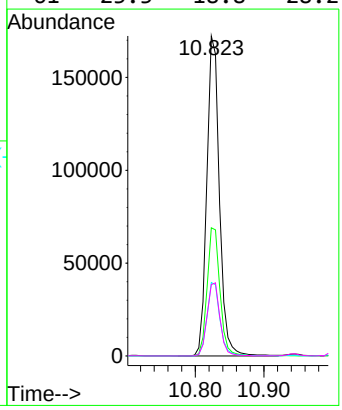
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

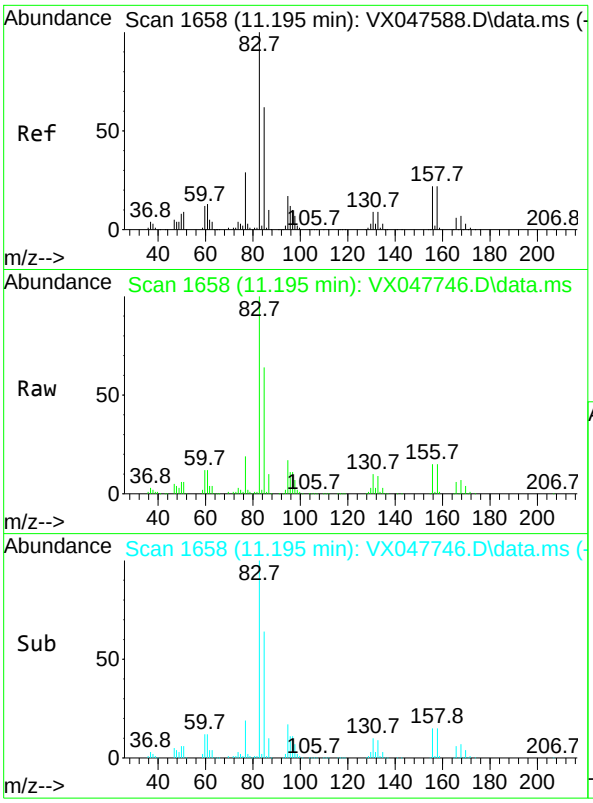


#74
N-amyl acetate
Concen: 52.312 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 221168

Ion	Ratio	Lower	Upper
43	100		
70	40.9	32.0	48.0
55	23.6	18.9	28.3
61	23.3	18.8	28.2

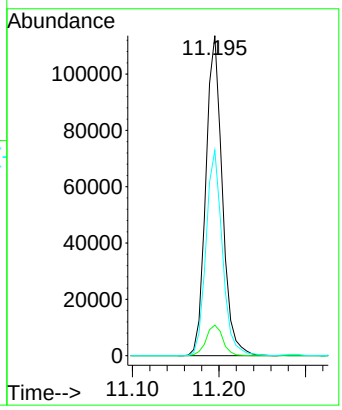




#75
1,1,2,2-Tetrachloroethane
Concen: 53.400 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 14978

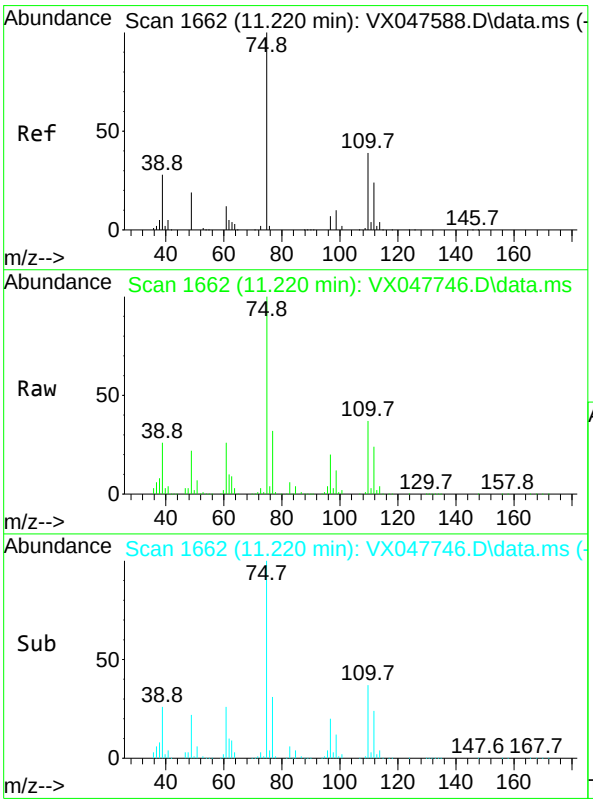
Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.0	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

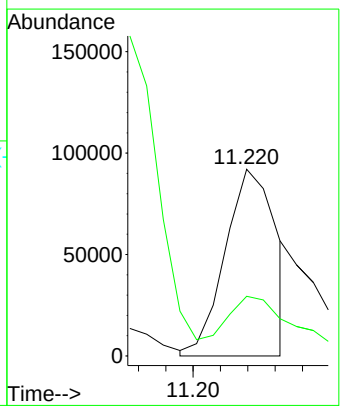
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

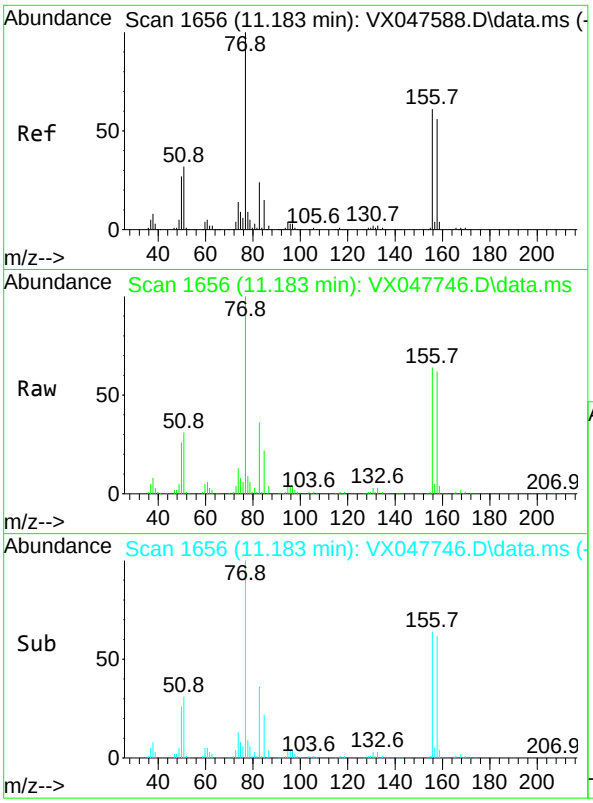


#76
1,2,3-Trichloropropane
Concen: 48.255 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 119145

Ion	Ratio	Lower	Upper
75	100		
77	44.0	18.8	56.4

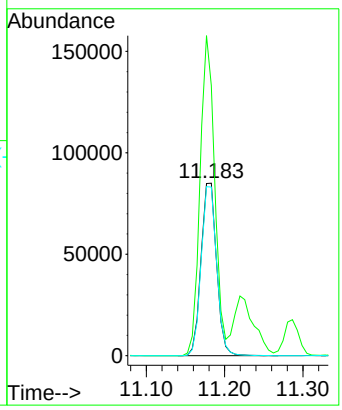




#77
Bromobenzene
Concen: 51.110 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:156 Resp: 11670

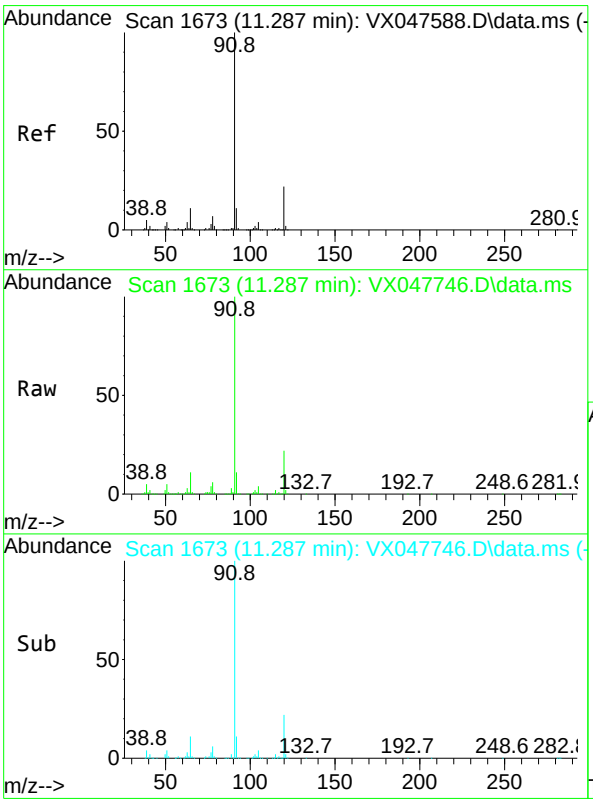
Ion	Ratio	Lower	Upper
156	100		
77	174.8	89.7	269.1
158	98.2	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

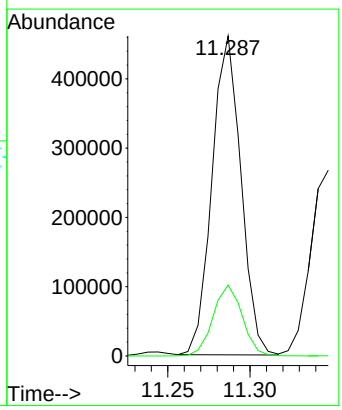
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

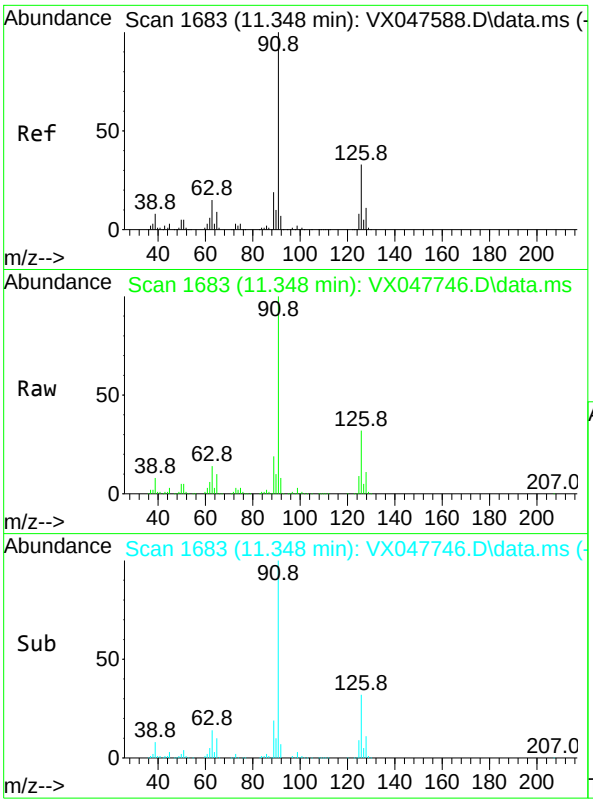


#78
n-propylbenzene
Concen: 51.387 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 563194

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

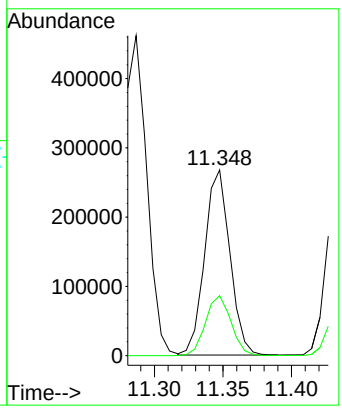




#79
2-Chlorotoluene
Concen: 50.938 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 34192

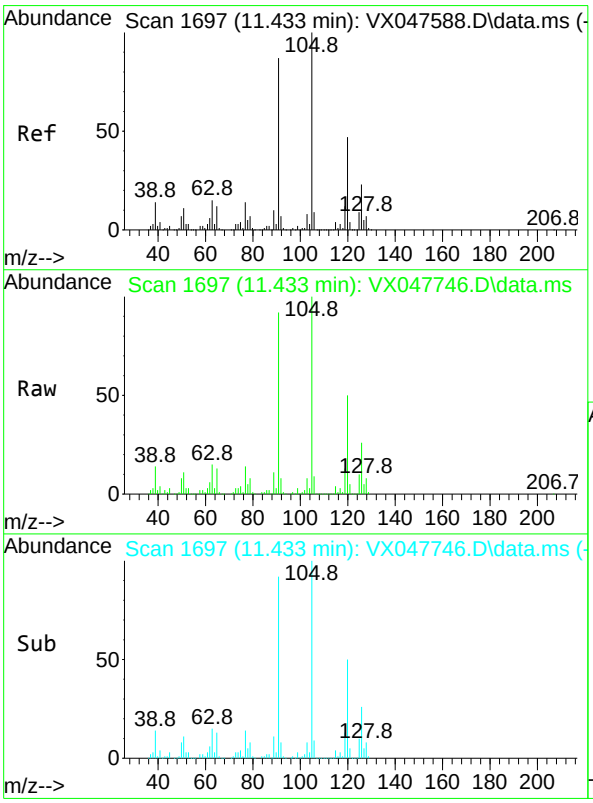
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

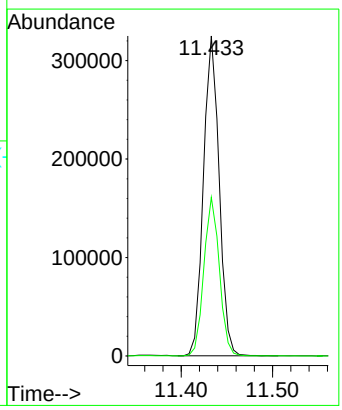
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

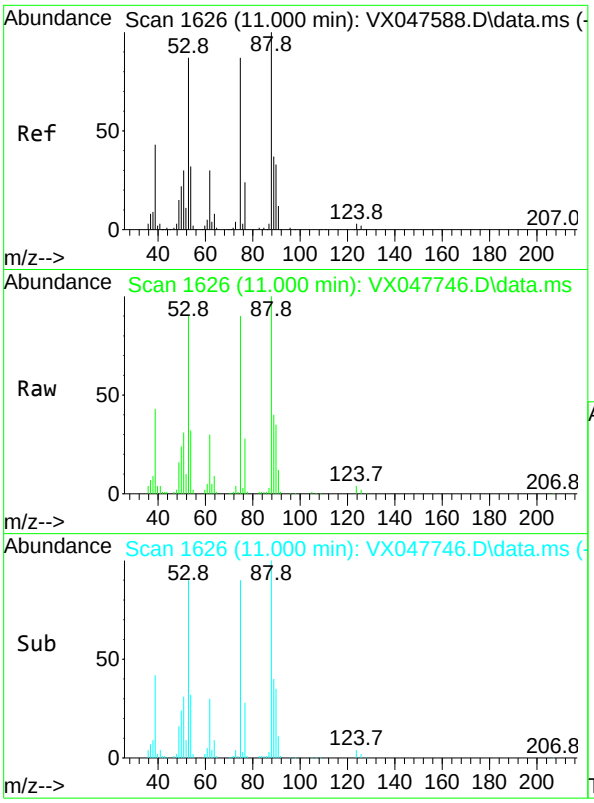


#80
1,3,5-Trimethylbenzene
Concen: 50.669 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 385950

Ion	Ratio	Lower	Upper
105	100		
120	49.0	23.6	70.8

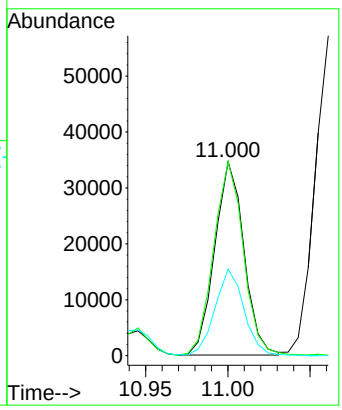




#81
trans-1,4-Dichloro-2-butene
Concen: 44.142 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 4273

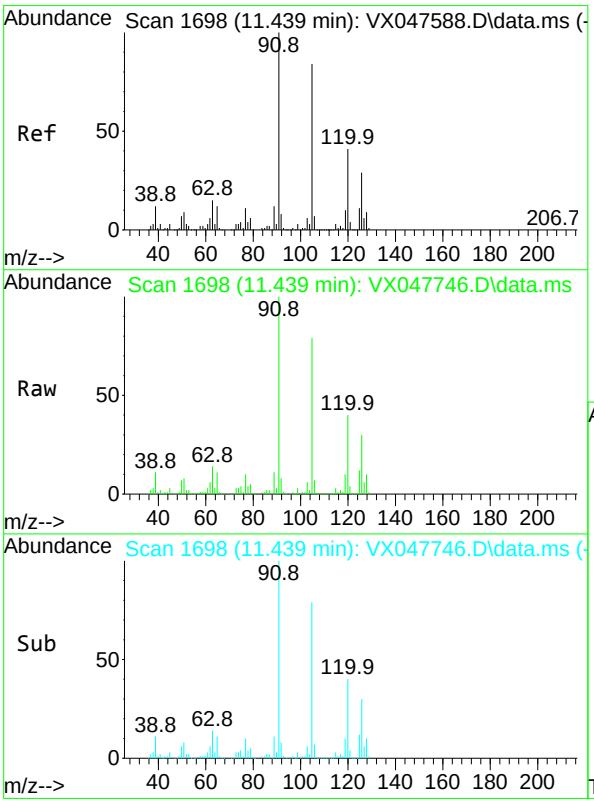
Ion	Ratio	Lower	Upper
75	100		
53	101.7	83.4	125.2
89	44.8	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

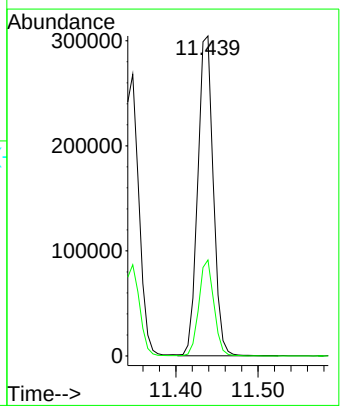
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

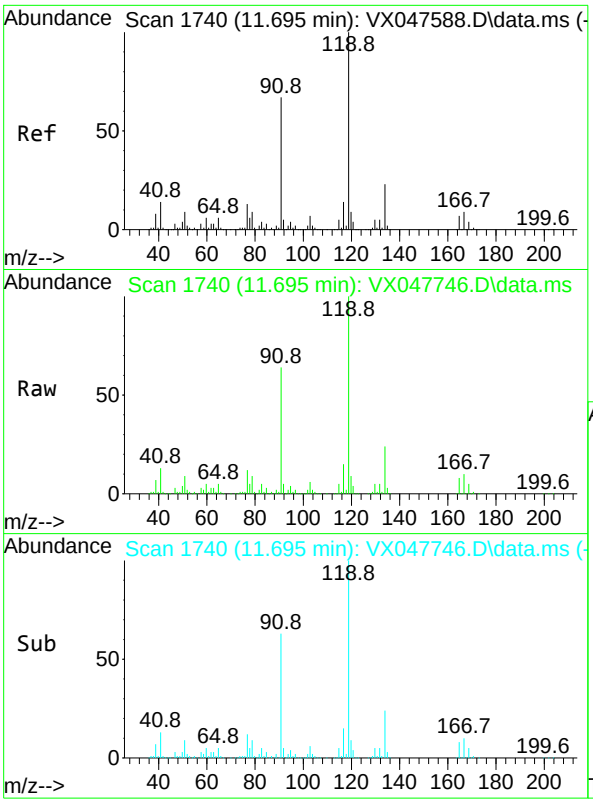


#82
4-Chlorotoluene
Concen: 50.313 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 398881

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6

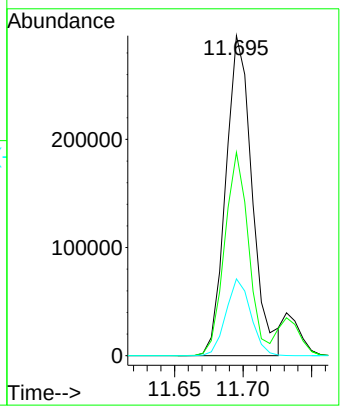




#83
tert-Butylbenzene
Concen: 50.936 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:119 Resp: 39717

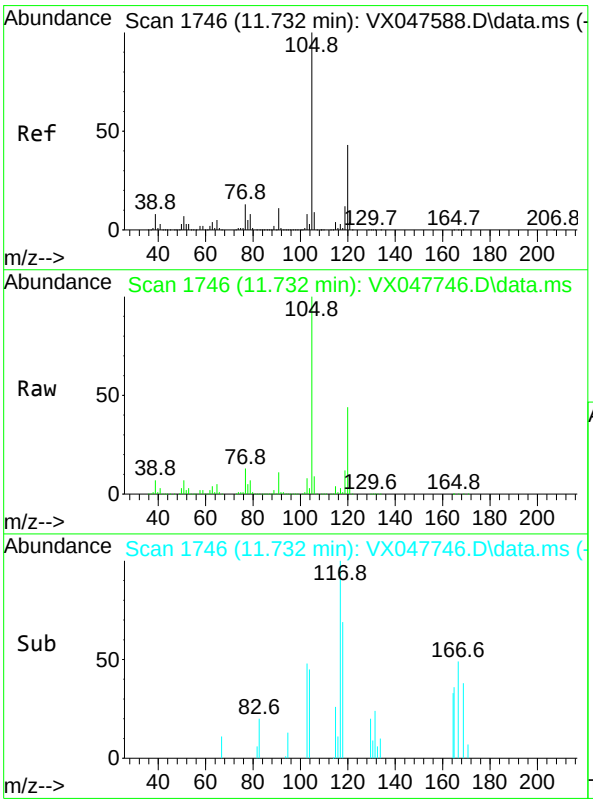
Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.6	88.8
134	22.6	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

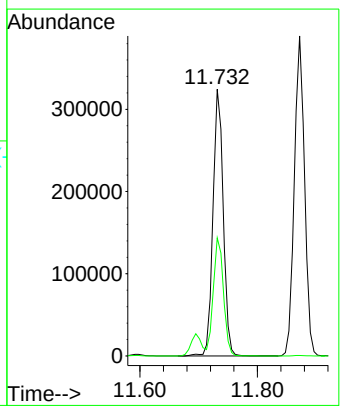
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

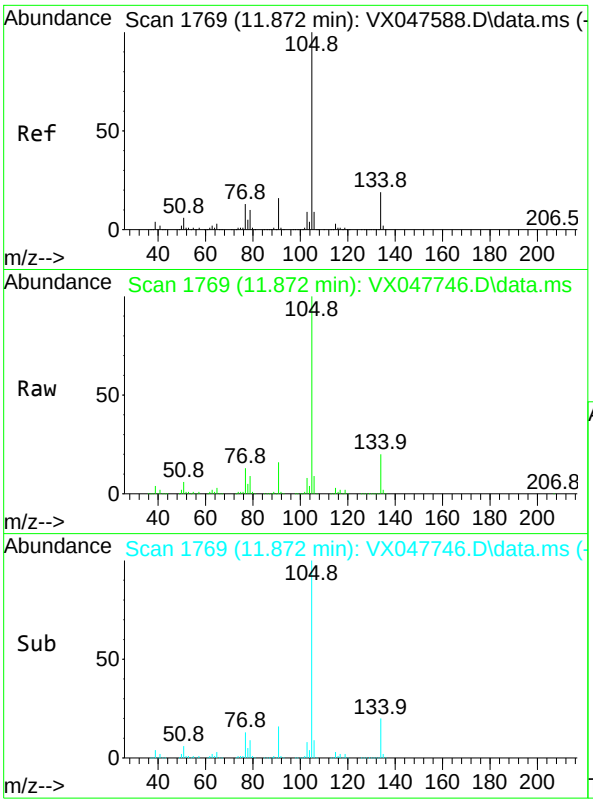


#84
1,2,4-Trimethylbenzene
Concen: 51.085 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 394508

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.1	66.1

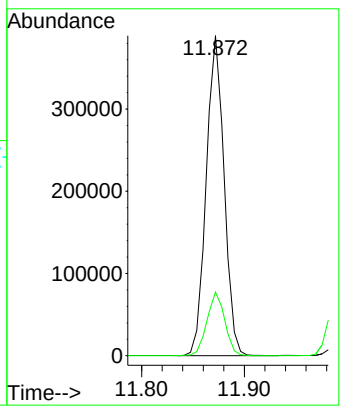




#85
sec-Butylbenzene
Concen: 50.945 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 47185

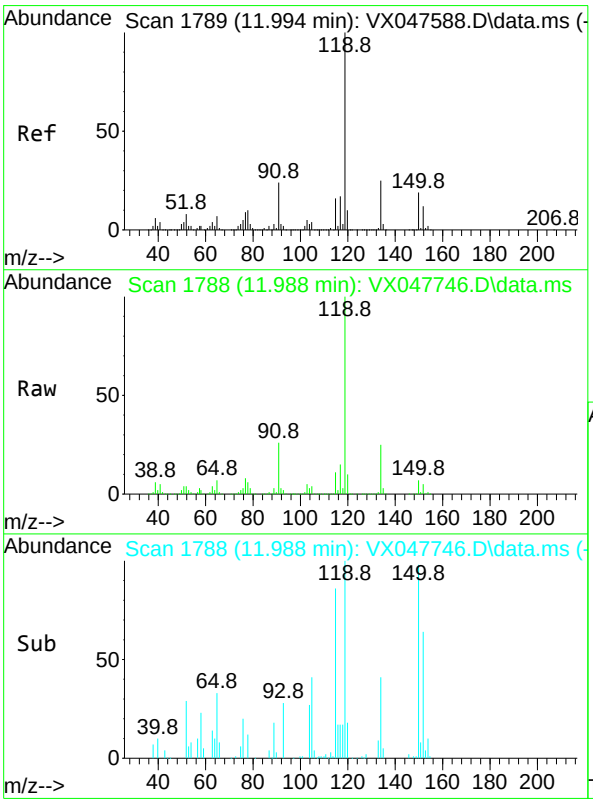
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

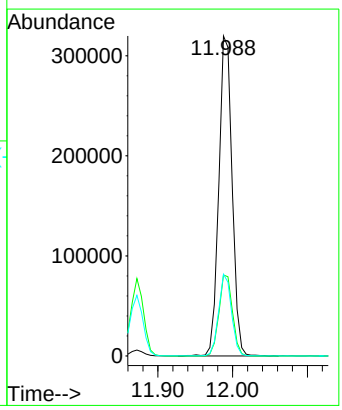
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

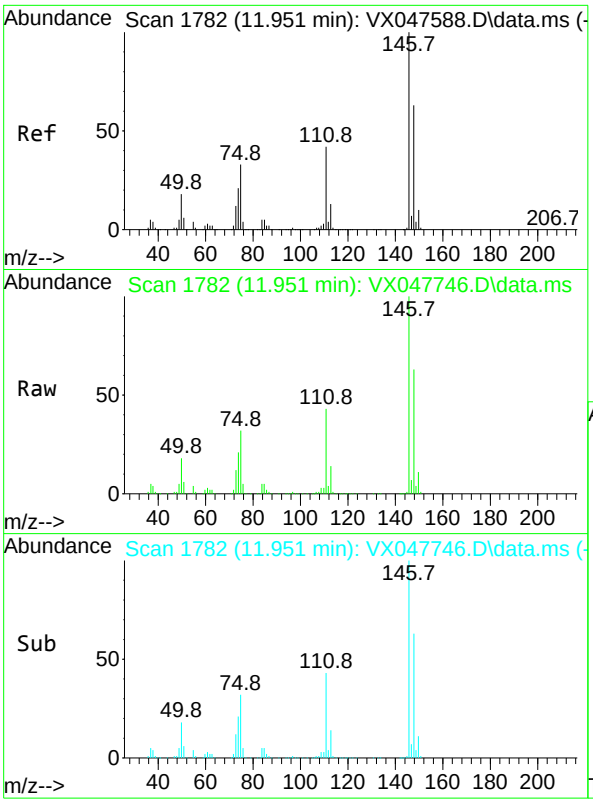


#86
p-Isopropyltoluene
Concen: 50.687 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:119 Resp: 397440

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	24.8	12.6	37.6

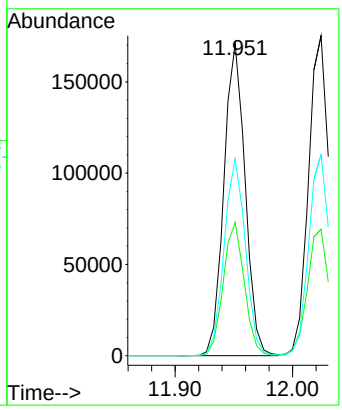




#87
1,3-Dichlorobenzene
Concen: 50.618 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 21468

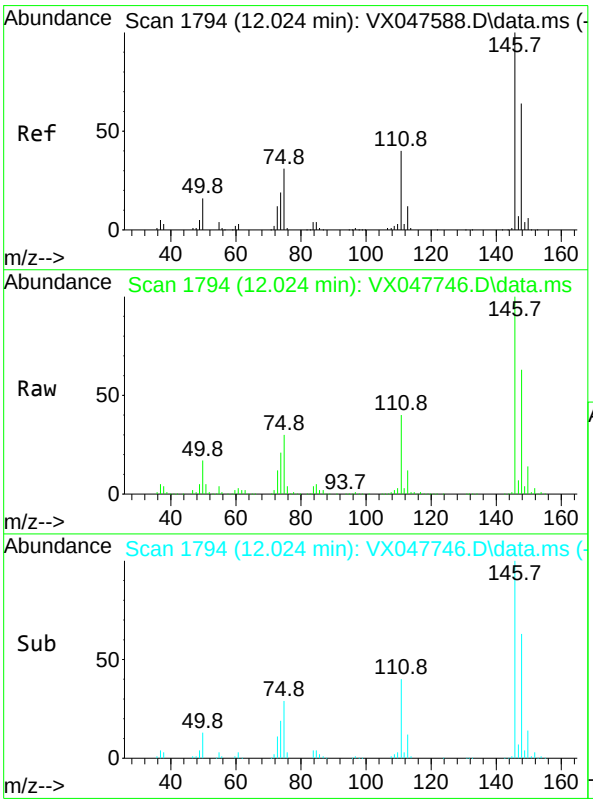
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	63.2	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

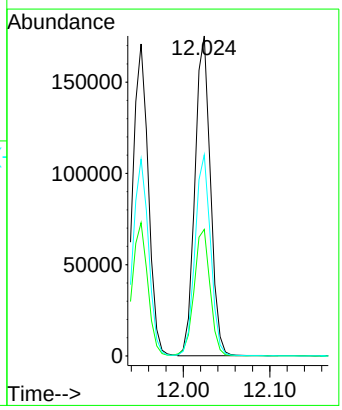
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

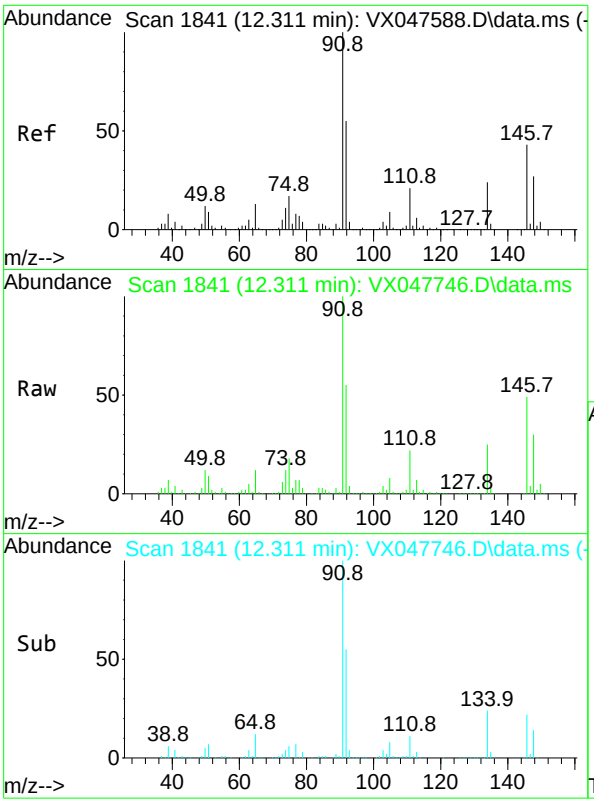


#88
1,4-Dichlorobenzene
Concen: 50.100 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 218086

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.8	62.4
148	63.3	31.7	95.1

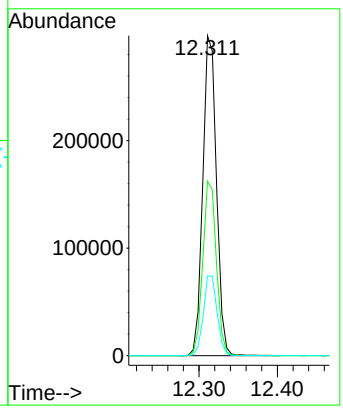




#89
n-Butylbenzene
Concen: 49.578 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 35970

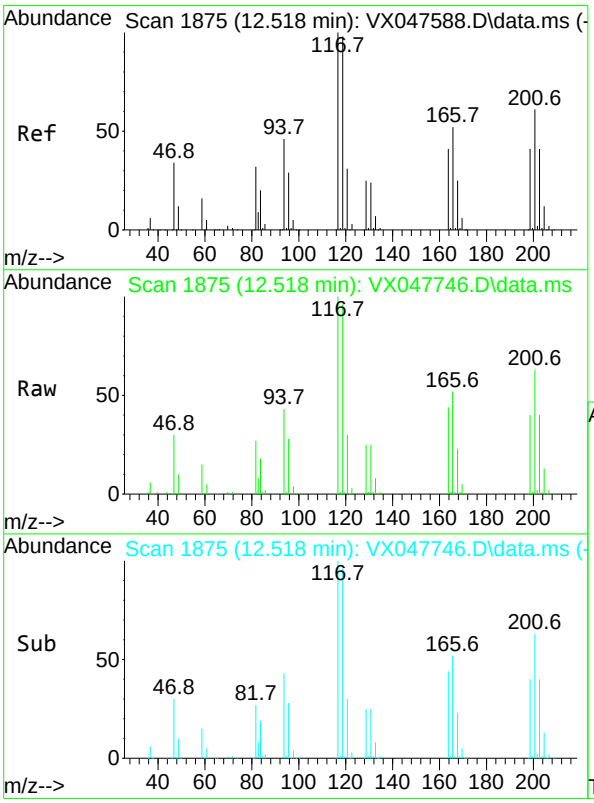
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

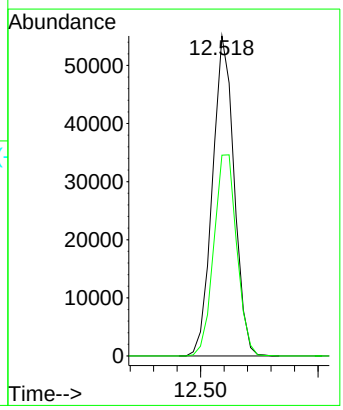
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

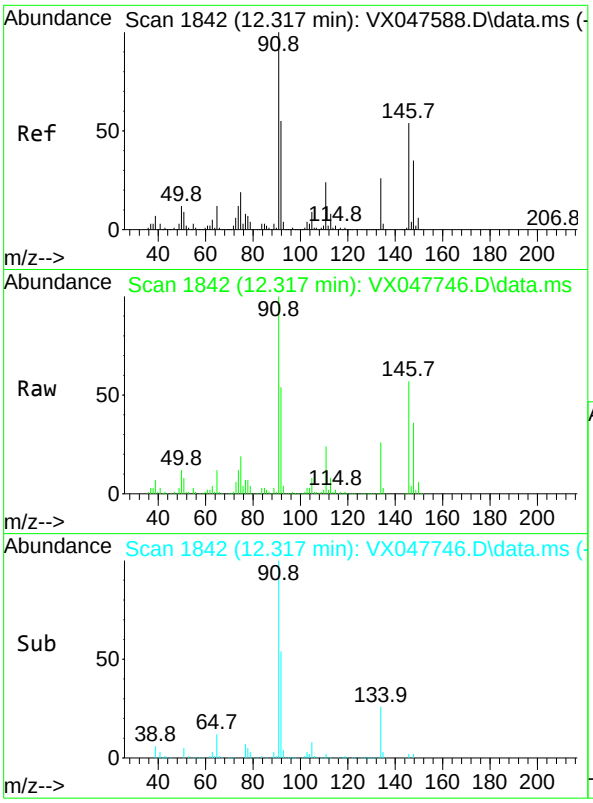


#90
Hexachloroethane
Concen: 51.284 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 70601

Ion	Ratio	Lower	Upper
117	100		
201	66.7	34.2	102.5

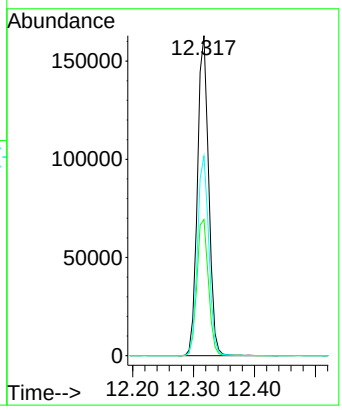




#91
1,2-Dichlorobenzene
Concen: 51.499 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 20809

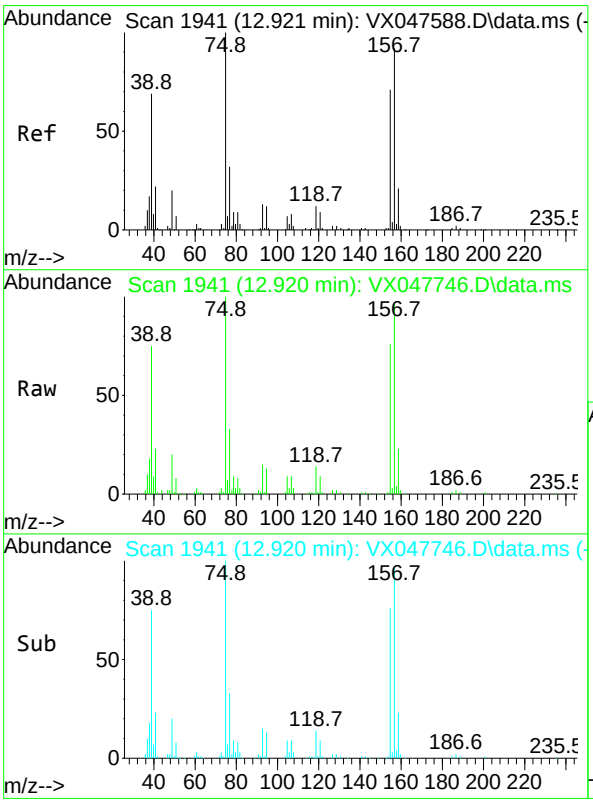
Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	62.8	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

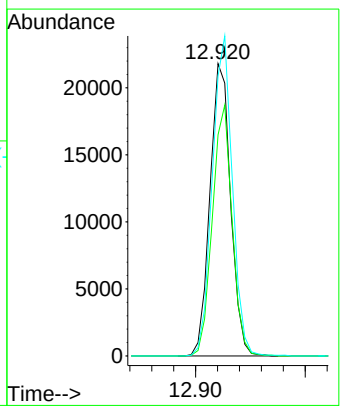
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

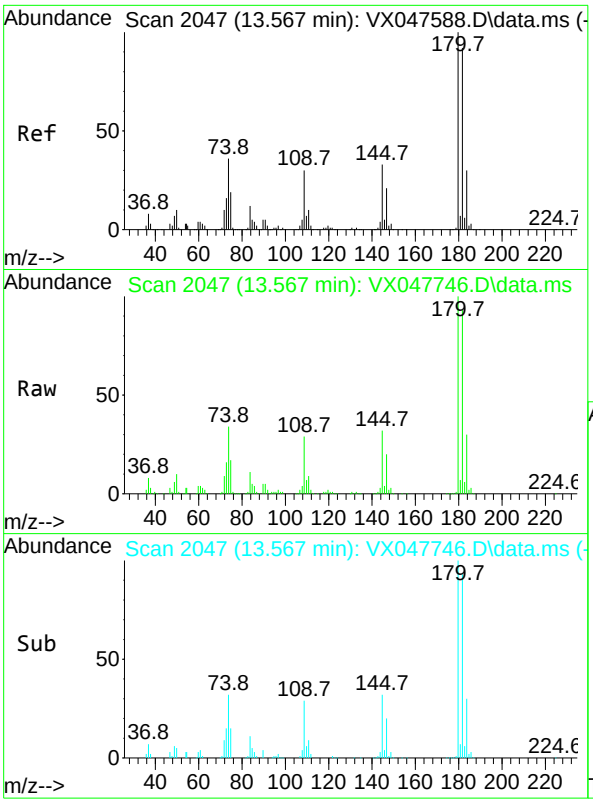


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.279 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 28554

Ion	Ratio	Lower	Upper
75	100		
155	82.0	37.7	113.1
157	106.4	49.8	149.4

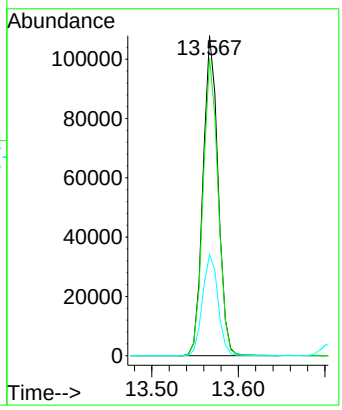




#93
1,2,4-Trichlorobenzene
Concen: 49.444 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:180 Resp: 12984

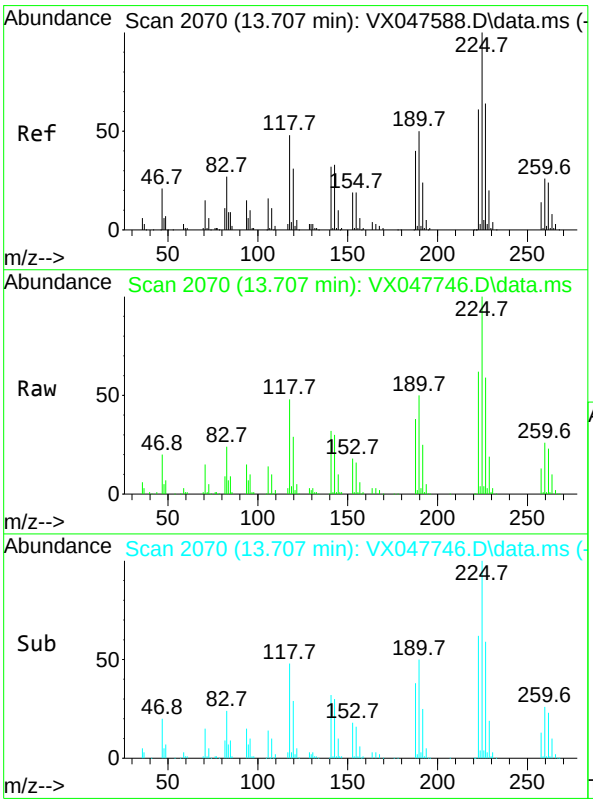
Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	32.6	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

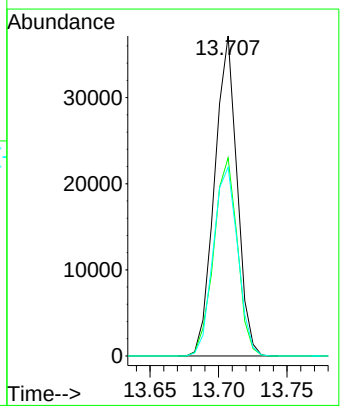
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

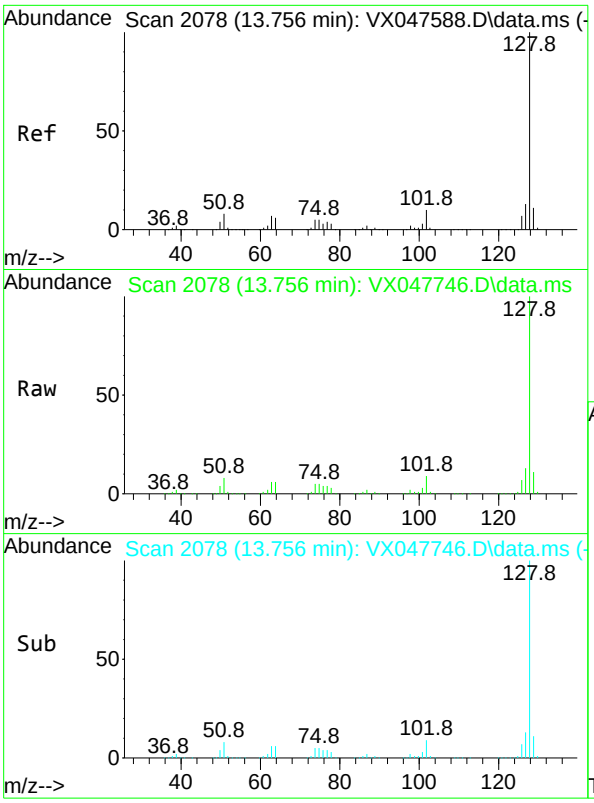


#94
Hexachlorobutadiene
Concen: 47.621 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:225 Resp: 42478

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.7	95.1
227	64.0	32.0	96.0

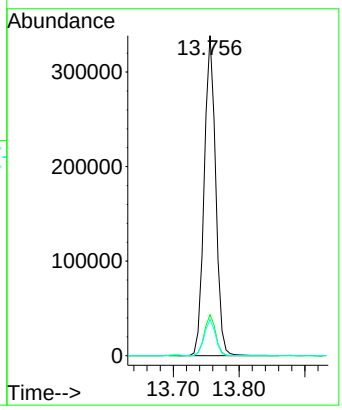




#95
Naphthalene
Concen: 51.297 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:128 Resp: 41020

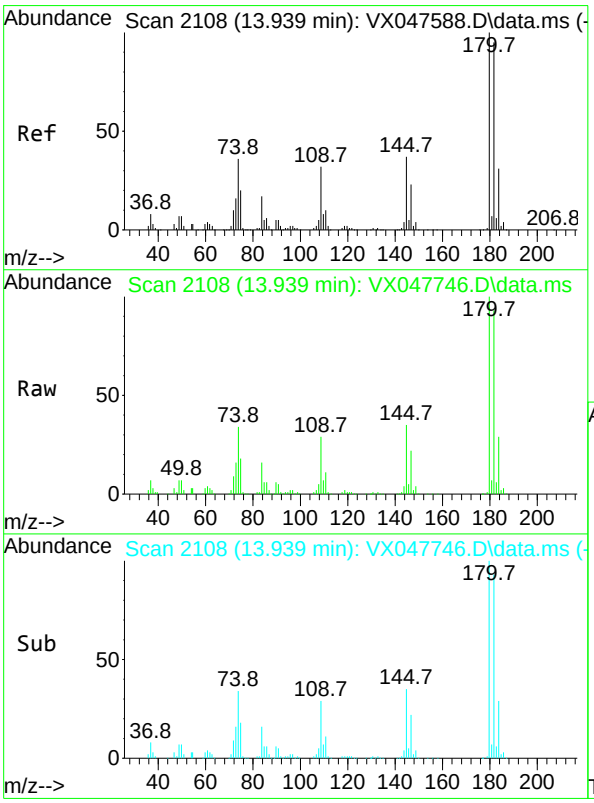
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.1	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

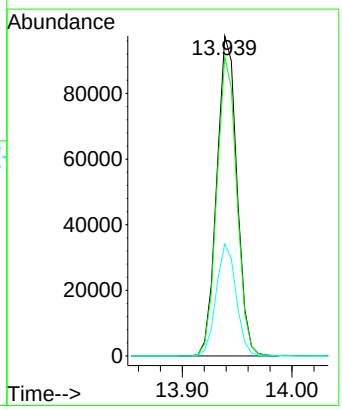
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.895 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:180 Resp: 124328

Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.6	142.8
145	34.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	96	-0.01
2	T	Dichlorodifluoromethane	0.518	0.672	-29.7#	129	0.00
3	P	Chloromethane	0.680	0.783	-15.1	114	0.00
4	C	Vinyl Chloride	0.666	0.789	-18.5#	115	0.00
5	T	Bromomethane	0.422	0.468	-10.9	106	0.00
6	T	Chloroethane	0.445	0.492	-10.6	107	0.00
7	T	Trichlorofluoromethane	0.989	1.101	-11.3	106	0.00
8	T	Diethyl Ether	0.405	0.431	-6.4	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.655	-13.3	108	0.00
10	T	Methyl Iodide	0.902	0.958	-6.2	101	0.00
11	T	Tert butyl alcohol	0.089	0.090	-1.1	97	0.00
12	CM	1,1-Dichloroethene	0.594	0.663	-11.6#	106	0.00
13	T	Acrolein	0.082	0.091	-11.0	108	0.00
14	T	Allyl chloride	1.226	1.211	1.2	96	0.00
15	T	Acrylonitrile	0.328	0.370	-12.8	103	-0.01
16	T	Acetone	0.346	0.298	13.9	90	0.00
17	T	Carbon Disulfide	1.626	1.796	-10.5	110	0.00
18	T	Methyl Acetate	0.770	0.868	-12.7	95	0.00
19	T	Methyl tert-butyl Ether	2.169	2.253	-3.9	96	0.00
20	T	Methylene Chloride	0.732	0.771	-5.3	102	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.695	-8.6	103	0.00
22	T	Diisopropyl ether	2.376	2.502	-5.3	97	-0.01
23	T	Vinyl Acetate	1.901	2.011	-5.8	97	0.00
24	P	1,1-Dichloroethane	1.263	1.349	-6.8	100	0.00
25	T	2-Butanone	0.432	0.438	-1.4	96	0.00
26	T	2,2-Dichloropropane	1.050	0.730	30.5#	66	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.815	-4.1	97	0.00
28	T	Bromochloromethane	0.551	0.629	-14.2	105	-0.01
29	T	Tetrahydrofuran	0.260	0.283	-8.8	99	0.00
30	C	Chloroform	1.276	1.328	-4.1#	97	-0.01
31	T	Cyclohexane	1.052	1.077	-2.4	101	0.00
32	T	1,1,1-Trichloroethane	1.082	1.123	-3.8	96	-0.01
33	S	1,2-Dichloroethane-d4	0.796	0.863	-8.4	108	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.335	0.398	-18.8	114	-0.01
36	T	1,1-Dichloropropene	0.490	0.504	-2.9	98	-0.01
37	T	Ethyl Acetate	0.525	0.542	-3.2	96	-0.01
38	T	Carbon Tetrachloride	0.532	0.554	-4.1	97	-0.01
39	T	Methylcyclohexane	0.556	0.576	-3.6	96	0.00
40	TM	Benzene	1.488	1.584	-6.5	98	0.00
41	T	Methacrylonitrile	0.271	0.302	-11.4	100	-0.01
42	TM	1,2-Dichloroethane	0.566	0.569	-0.5	92	0.00
43	T	Isopropyl Acetate	0.860	0.887	-3.1	94	0.00
44	TM	Trichloroethene	0.360	0.387	-7.5	99	0.00
45	C	1,2-Dichloropropane	0.381	0.401	-5.2#	95	0.00
46	T	Dibromomethane	0.277	0.291	-5.1	95	0.00
47	T	Bromodichloromethane	0.572	0.594	-3.8	93	0.00
48	T	Methyl methacrylate	0.429	0.446	-4.0	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	0.004	0.006	-50.0#	112	0.00
50	S	Toluene-d8	1.160	1.325	-14.2	109	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.516	-8.2	95	0.00
52	CM	Toluene	0.917	0.950	-3.6#	96	0.00
53	T	t-1,3-Dichloropropene	0.584	0.561	3.9	86	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.614	1.6	89	0.00
55	T	1,1,2-Trichloroethane	0.354	0.369	-4.2	95	0.00
56	T	Ethyl methacrylate	0.555	0.583	-5.0	92	0.00
57	T	1,3-Dichloropropane	0.607	0.640	-5.4	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.300	-32.2#	104	0.00
59	T	2-Hexanone	0.343	0.357	-4.1	94	0.00
60	T	Dibromochloromethane	0.407	0.431	-5.9	94	0.00
61	T	1,2-Dibromoethane	0.360	0.382	-6.1	95	0.00
62	S	4-Bromofluorobenzene	0.440	0.493	-12.0	109	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.326	0.346	-6.1	99	0.00
65	PM	Chlorobenzene	1.136	1.179	-3.8	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.413	-5.4	93	0.00
67	C	Ethyl Benzene	1.960	2.043	-4.2#	94	0.00
68	T	m/p-Xylenes	0.729	0.773	-6.0	95	0.00
69	T	o-Xylene	0.706	0.741	-5.0	93	0.00
70	T	Styrene	1.236	1.308	-5.8	94	0.00
71	P	Bromoform	0.293	0.317	-8.2	95	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73	T	Isopropylbenzene	3.801	3.949	-3.9	93	0.00
74	T	N-amyl acetate	1.733	1.814	-4.7	93	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.228	-6.8	96	0.00
76	T	1,2,3-Trichloropropane	1.012	0.977	3.5	83	0.00
77	T	Bromobenzene	0.936	0.957	-2.2	92	0.00
78	T	n-propylbenzene	4.494	4.618	-2.8	92	0.00
79	T	2-Chlorotoluene	2.752	2.804	-1.9	92	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.165	-1.3	90	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.350	11.8	81	0.00
82	T	4-Chlorotoluene	3.251	3.271	-0.6	91	0.00
83	T	tert-Butylbenzene	3.197	3.257	-1.9	93	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.235	-2.2	92	0.00
85	T	sec-Butylbenzene	3.797	3.869	-1.9	92	0.00
86	T	p-Isopropyltoluene	3.215	3.259	-1.4	91	0.00
87	T	1,3-Dichlorobenzene	1.739	1.760	-1.2	93	0.00
88	T	1,4-Dichlorobenzene	1.785	1.788	-0.2	93	0.00
89	T	n-Butylbenzene	2.975	2.950	0.8	90	0.00
90	T	Hexachloroethane	0.564	0.579	-2.7	93	0.00
91	T	1,2-Dichlorobenzene	1.657	1.706	-3.0	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.234	-0.4	88	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.065	1.1	88	0.00
94	T	Hexachlorobutadiene	0.366	0.348	4.9	87	0.00
95	T	Naphthalene	3.279	3.364	-2.6	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	1.020	-1.8	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	96	-0.01
2	T	Dichlorodifluoromethane	50.000	64.888	-29.8#	129	0.00
3	P	Chloromethane	50.000	57.550	-15.1	114	0.00
4	C	Vinyl Chloride	50.000	59.253	-18.5#	115	0.00
5	T	Bromomethane	50.000	55.392	-10.8	106	0.00
6	T	Chloroethane	50.000	55.200	-10.4	107	0.00
7	T	Trichlorofluoromethane	50.000	55.656	-11.3	106	0.00
8	T	Diethyl Ether	50.000	53.244	-6.5	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	56.598	-13.2	108	0.00
10	T	Methyl Iodide	50.000	53.098	-6.2	101	0.00
11	T	Tert butyl alcohol	250.000	252.518	-1.0	97	0.00
12	CM	1,1-Dichloroethene	50.000	55.777	-11.6#	106	0.00
13	T	Acrolein	250.000	280.037	-12.0	108	0.00
14	T	Allyl chloride	50.000	49.383	1.2	96	0.00
15	T	Acrylonitrile	250.000	281.629	-12.7	103	-0.01
16	T	Acetone	250.000	214.945	14.0	90	0.00
17	T	Carbon Disulfide	50.000	55.218	-10.4	110	0.00
18	T	Methyl Acetate	50.000	56.326	-12.7	95	0.00
19	T	Methyl tert-butyl Ether	50.000	51.946	-3.9	96	0.00
20	T	Methylene Chloride	50.000	52.632	-5.3	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	54.315	-8.6	103	0.00
22	T	Diisopropyl ether	50.000	52.658	-5.3	97	-0.01
23	T	Vinyl Acetate	250.000	264.433	-5.8	97	0.00
24	P	1,1-Dichloroethane	50.000	53.426	-6.9	100	0.00
25	T	2-Butanone	250.000	253.647	-1.5	96	0.00
26	T	2,2-Dichloropropane	50.000	34.769	30.5#	66	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.016	-4.0	97	0.00
28	T	Bromochloromethane	50.000	57.010	-14.0	105	-0.01
29	T	Tetrahydrofuran	250.000	272.674	-9.1	99	0.00
30	C	Chloroform	50.000	52.050	-4.1#	97	-0.01
31	T	Cyclohexane	50.000	51.224	-2.4	101	0.00
32	T	1,1,1-Trichloroethane	50.000	51.890	-3.8	96	-0.01
33	S	1,2-Dichloroethane-d4	50.000	54.210	-8.4	108	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	59.312	-18.6	114	-0.01
36	T	1,1-Dichloropropene	50.000	51.432	-2.9	98	-0.01
37	T	Ethyl Acetate	50.000	51.660	-3.3	96	-0.01
38	T	Carbon Tetrachloride	50.000	51.986	-4.0	97	-0.01
39	T	Methylcyclohexane	50.000	51.777	-3.6	96	0.00
40	TM	Benzene	50.000	53.223	-6.4	98	0.00
41	T	Methacrylonitrile	50.000	55.742	-11.5	100	-0.01
42	TM	1,2-Dichloroethane	50.000	50.209	-0.4	92	0.00
43	T	Isopropyl Acetate	50.000	51.528	-3.1	94	0.00
44	TM	Trichloroethene	50.000	53.736	-7.5	99	0.00
45	C	1,2-Dichloropropane	50.000	52.565	-5.1#	95	0.00
46	T	Dibromomethane	50.000	52.418	-4.8	95	0.00
47	T	Bromodichloromethane	50.000	51.915	-3.8	93	0.00
48	T	Methyl methacrylate	50.000	51.974	-3.9	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1306.764	-30.7#	112	0.00
50	S	Toluene-d8	50.000	57.106	-14.2	109	0.00
51	T	4-Methyl-2-Pentanone	250.000	270.171	-8.1	95	0.00
52	CM	Toluene	50.000	51.811	-3.6#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	48.037	3.9	86	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.218	1.6	89	0.00
55	T	1,1,2-Trichloroethane	50.000	52.187	-4.4	95	0.00
56	T	Ethyl methacrylate	50.000	52.534	-5.1	92	0.00
57	T	1,3-Dichloropropane	50.000	52.699	-5.4	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.568	-12.2	104	0.00
59	T	2-Hexanone	250.000	260.122	-4.0	94	0.00
60	T	Dibromochloromethane	50.000	52.954	-5.9	94	0.00
61	T	1,2-Dibromoethane	50.000	53.090	-6.2	95	0.00
62	S	4-Bromofluorobenzene	50.000	55.994	-12.0	109	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	53.073	-6.1	99	0.00
65	PM	Chlorobenzene	50.000	51.885	-3.8	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.679	-5.4	93	0.00
67	C	Ethyl Benzene	50.000	52.120	-4.2#	94	0.00
68	T	m/p-Xylenes	100.000	106.017	-6.0	95	0.00
69	T	o-Xylene	50.000	52.481	-5.0	93	0.00
70	T	Styrene	50.000	52.908	-5.8	94	0.00
71	P	Bromoform	50.000	54.161	-8.3	95	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73	T	Isopropylbenzene	50.000	51.938	-3.9	93	0.00
74	T	N-amyl acetate	50.000	52.312	-4.6	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.400	-6.8	96	0.00
76	T	1,2,3-Trichloropropane	50.000	48.255	3.5	83	0.00
77	T	Bromobenzene	50.000	51.110	-2.2	92	0.00
78	T	n-propylbenzene	50.000	51.387	-2.8	92	0.00
79	T	2-Chlorotoluene	50.000	50.938	-1.9	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.669	-1.3	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.142	11.7	81	0.00
82	T	4-Chlorotoluene	50.000	50.313	-0.6	91	0.00
83	T	tert-Butylbenzene	50.000	50.936	-1.9	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.085	-2.2	92	0.00
85	T	sec-Butylbenzene	50.000	50.945	-1.9	92	0.00
86	T	p-Isopropyltoluene	50.000	50.687	-1.4	91	0.00
87	T	1,3-Dichlorobenzene	50.000	50.618	-1.2	93	0.00
88	T	1,4-Dichlorobenzene	50.000	50.100	-0.2	93	0.00
89	T	n-Butylbenzene	50.000	49.578	0.8	90	0.00
90	T	Hexachloroethane	50.000	51.284	-2.6	93	0.00
91	T	1,2-Dichlorobenzene	50.000	51.499	-3.0	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.279	-0.6	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.444	1.1	88	0.00
94	T	Hexachlorobutadiene	50.000	47.621	4.8	87	0.00
95	T	Naphthalene	50.000	51.297	-2.6	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	50.895	-1.8	89	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: Alliance | Contract: TETR06

Lab Code: ACE | SDG No.: Q3141

Instrument ID: MSVOA_X | Calibration Date/Time: 09/24/2025 10:50

Lab File ID: VX047767.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.593		14.48	50
Chloromethane	0.680	0.735	0.1	8.09	50
Vinyl Chloride	0.666	0.726		9.01	50
Bromomethane	0.422	0.463		9.72	50
Chloroethane	0.445	0.466		4.72	50
Trichlorofluoromethane	0.989	1.013		2.43	50
1,1,2-Trichlorotrifluoroethane	0.578	0.586		1.38	50
1,1-Dichloroethene	0.594	0.631		6.23	50
Acetone	0.346	0.323		-6.65	50
Carbon Disulfide	1.626	1.720		5.78	50
Methyl tert-butyl Ether	2.169	2.352		8.44	50
Methyl Acetate	0.770	0.940		22.08	50
Methylene Chloride	0.732	0.779		6.42	50
trans-1,2-Dichloroethene	0.640	0.685		7.03	50
1,1-Dichloroethane	1.263	1.341	0.1	6.18	50
Cyclohexane	1.052	1.066		1.33	50
2-Butanone	0.432	0.500		15.74	50
Carbon Tetrachloride	0.532	0.515		-3.19	50
cis-1,2-Dichloroethene	0.783	0.835		6.64	50
Bromochloromethane	0.551	0.591		7.26	50
Chloroform	1.276	1.376		7.84	50
1,1,1-Trichloroethane	1.082	1.134		4.81	50
Methylcyclohexane	0.556	0.525		-5.58	50
Benzene	1.488	1.534		3.09	50
1,2-Dichloroethane	0.566	0.562		-0.71	50
Trichloroethene	0.360	0.371		3.06	50
1,2-Dichloropropane	0.381	0.401		5.25	50
Bromodichloromethane	0.572	0.591		3.32	50
4-Methyl-2-Pentanone	0.477	0.565		18.45	50
Toluene	0.917	0.943		2.84	50
t-1,3-Dichloropropene	0.584	0.540		-7.53	50
cis-1,3-Dichloropropene	0.624	0.587		-5.93	50
1,1,2-Trichloroethane	0.354	0.379		7.06	50
2-Hexanone	0.343	0.396		15.45	50
Dibromochloromethane	0.407	0.437		7.37	50
1,2-Dibromoethane	0.360	0.406		12.78	50
Tetrachloroethene	0.326	0.340		4.29	50
Chlorobenzene	1.136	1.145	0.3	0.79	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: Alliance
Contract: TETR06
Lab Code: ACE
SDG No.: Q3141
Instrument ID: MSVOA_X
Calibration Date/Time: 09/24/2025 10:50
Lab File ID: VX047767.D
Init. Calib. Date(s): 09/16/2025 09/16/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 09:23 12:01
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	1.949		-0.56	50
m/p-Xylenes	0.729	0.741		1.65	50
o-Xylene	0.706	0.724		2.55	50
Styrene	1.236	1.277		3.32	50
Bromoform	0.293	0.316	0.1	7.85	50
Isopropylbenzene	3.801	3.694		-2.82	50
1,1,2,2-Tetrachloroethane	1.150	1.264	0.3	9.91	50
1,3-Dichlorobenzene	1.739	1.732		-0.4	50
1,4-Dichlorobenzene	1.785	1.729		-3.14	50
1,2-Dichlorobenzene	1.657	1.696		2.35	50
1,2-Dibromo-3-Chloropropane	0.233	0.254		9.01	50
1,2,4-Trichlorobenzene	1.077	1.059		-1.67	50
1,2,3-Trichlorobenzene	1.002	1.049		4.69	50
1,2-Dichloroethane-d4	0.796	0.866		8.79	50
Dibromofluoromethane	0.335	0.362		8.06	50
Toluene-d8	1.160	1.237		6.64	50
4-Bromofluorobenzene	0.440	0.475		7.95	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\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.538	168	136245	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	254252	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.037	117	232007	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	113030	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.946	65	117949	54.388 ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.780%		
35) Dibromofluoromethane	5.373	113	92049	53.983 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.960%		
50) Toluene-d8	8.635	98	314422	53.290 ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.580%		
62) 4-Bromofluorobenzene	11.061	95	120804	53.949 ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.900%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.172	85	80794	57.267 ug/l	100
3) Chloromethane	1.301	50	100073	53.970 ug/l	97
4) Vinyl Chloride	1.380	62	98905	54.491 ug/l	99
5) Bromomethane	1.611	94	63064	54.792 ug/l	99
6) Chloroethane	1.691	64	63530	52.368 ug/l	98
7) Trichlorofluoromethane	1.892	101	138008	51.208 ug/l	99
8) Diethyl Ether	2.136	74	59838	54.277 ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	79844	50.667 ug/l	99
10) Methyl Iodide	2.453	142	124745	50.757 ug/l	100
11) Tert butyl alcohol	2.947	59	65972	273.139 ug/l	100
12) 1,1-Dichloroethene	2.325	96	85914	53.075 ug/l	97
13) Acrolein	2.233	56	62008	278.592 ug/l	97
14) Allyl chloride	2.666	41	160323	47.997 ug/l	95
15) Acrylonitrile	3.056	53	274545	306.873 ug/l	99
16) Acetone	2.373	43	219982	233.292 ug/l	97
17) Carbon Disulfide	2.514	76	234371	52.888 ug/l	99
18) Methyl Acetate	2.697	43	128034	61.011 ug/l	100
19) Methyl tert-butyl Ether	3.111	73	320438	54.228 ug/l	98
20) Methylene Chloride	2.788	84	106137	53.176 ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	93317	53.545 ug/l	96
22) Diisopropyl ether	3.751	45	350616	54.161 ug/l	86
23) Vinyl Acetate	3.715	43	1442450	278.405 ug/l	100
24) 1,1-Dichloroethane	3.605	63	182725	53.106 ug/l	99
25) 2-Butanone	4.538	43	340369	289.378 ug/l	97
26) 2,2-Dichloropropane	4.465	77	70096	24.508 ug/l	93
27) cis-1,2-Dichloroethene	4.483	96	113757	53.299 ug/l	92
28) Bromochloromethane	4.885	49	80547	53.622 ug/l	99
29) Tetrahydrofuran	4.989	42	220667	311.862 ug/l	100
30) Chloroform	5.080	83	187454	53.913 ug/l	100
31) Cyclohexane	5.458	56	145273	50.693 ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	154526	52.395 ug/l	99
36) 1,1-Dichloropropene	5.678	75	120688	48.437 ug/l	99
37) Ethyl Acetate	4.702	43	149048	55.869 ug/l	98
38) Carbon Tetrachloride	5.666	117	130818	48.322 ug/l	99
39) Methylcyclohexane	7.367	83	133414	47.171 ug/l	98
40) Benzene	6.025	78	389912	51.523 ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	77979	56.618	ug/l	99
42) 1,2-Dichloroethane	6.074	62	143000	49.663	ug/l	98
43) Isopropyl Acetate	6.324	43	235980	53.933	ug/l	99
44) Trichloroethene	7.110	130	94203	51.488	ug/l	93
45) 1,2-Dichloropropane	7.415	63	102032	52.653	ug/l	99
46) Dibromomethane	7.568	93	74570	52.881	ug/l	98
47) Bromodichloromethane	7.805	83	150372	51.676	ug/l	97
48) Methyl methacrylate	7.677	41	118513	54.378	ug/l	97
49) 1,4-Dioxane	7.647	88	30387	1379.627	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	718573	296.207	ug/l	100
52) Toluene	8.702	92	239637	51.397	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	137402	46.292	ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	149149	47.013	ug/l	100
55) 1,1,2-Trichloroethane	9.134	97	96376	53.607	ug/l	97
56) Ethyl methacrylate	9.104	69	158357	56.087	ug/l	96
57) 1,3-Dichloropropane	9.293	76	167428	54.213	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	402380	294.817	ug/l	100
59) 2-Hexanone	9.415	43	503351	288.900	ug/l	98
60) Dibromochloromethane	9.506	129	111057	53.612	ug/l	98
61) 1,2-Dibromoethane	9.592	107	103205	56.360	ug/l	100
64) Tetrachloroethene	9.256	164	78844	52.130	ug/l	96
65) Chlorobenzene	10.061	112	265659	50.402	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.146	131	93007	51.137	ug/l	99
67) Ethyl Benzene	10.177	91	452093	49.712	ug/l	100
68) m/p-Xylenes	10.287	106	343642	101.520	ug/l	97
69) o-Xylene	10.628	106	167926	51.290	ug/l	98
70) Styrene	10.640	104	296373	51.662	ug/l	98
71) Bromoform	10.787	173	73291	53.967	ug/l	98
73) Isopropylbenzene	10.945	105	417583	48.594	ug/l	99
74) N-amyl acetate	10.829	43	207812	53.032	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	142889	54.960	ug/l	100
76) 1,2,3-Trichloropropane	11.219	75	124755m	54.514	ug/l	
77) Bromobenzene	11.183	156	107213	50.657	ug/l	97
78) n-propylbenzene	11.287	91	498719	49.095	ug/l	99
79) 2-Chlorotoluene	11.347	91	304904	49.006	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	345988	49.006	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	35912	40.018	ug/l	99
82) 4-Chlorotoluene	11.439	91	357733	48.683	ug/l	99
83) tert-Butylbenzene	11.695	119	346038	47.879	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	353276	49.355	ug/l	100
85) sec-Butylbenzene	11.872	105	415999	48.459	ug/l	100
86) p-Isopropyltoluene	11.994	119	348647	47.972	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	195732	49.790	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	195422	48.435	ug/l	99
89) n-Butylbenzene	12.317	91	317773	47.254	ug/l	98
90) Hexachloroethane	12.518	117	62783	49.203	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	191705	51.187	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28696	54.516	ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	119753	49.199	ug/l	98
94) Hexachlorobutadiene	13.707	225	39271	47.499	ug/l	99
95) Naphthalene	13.756	128	400255	54.002	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	118573	52.369	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

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

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

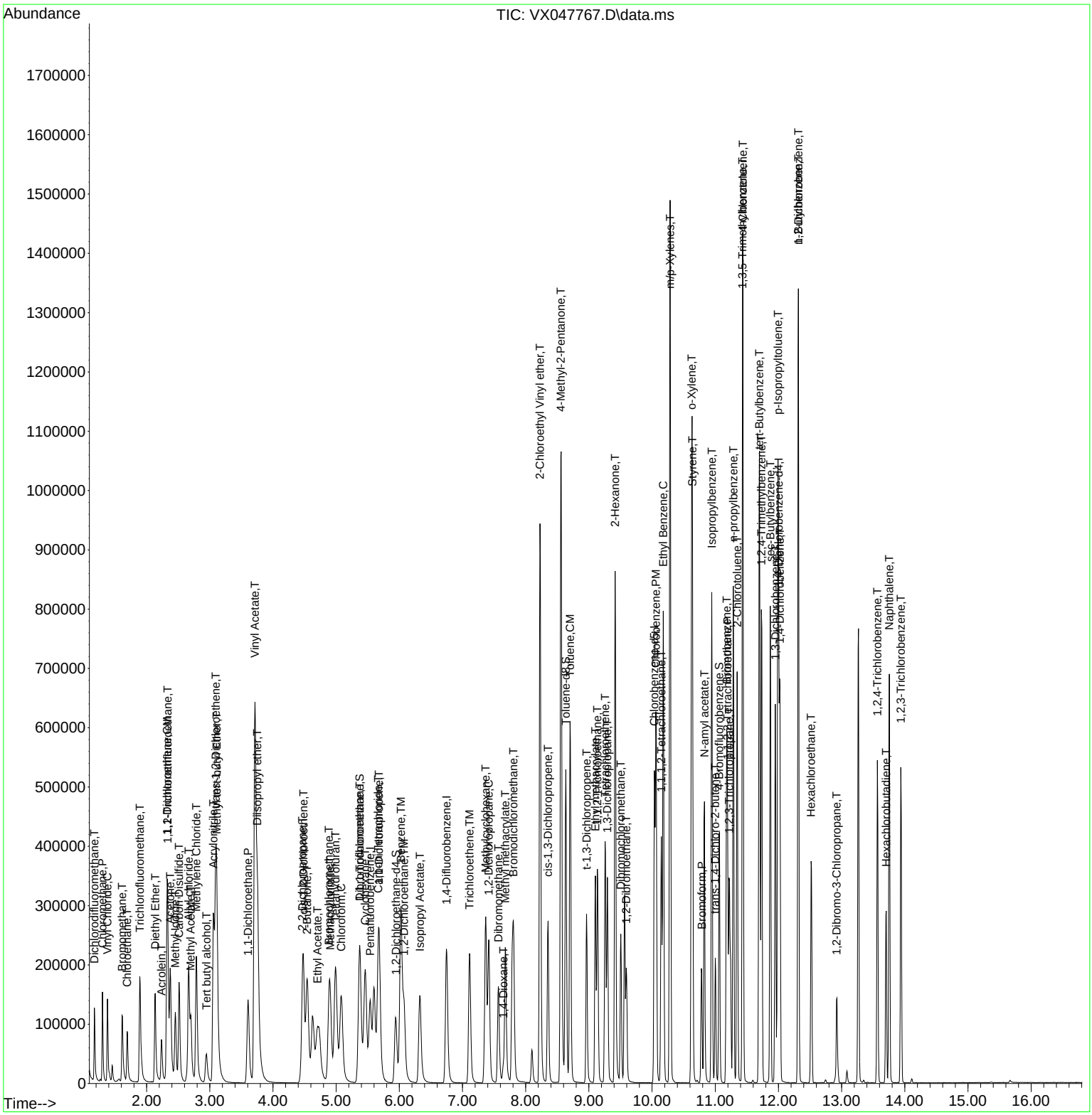
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

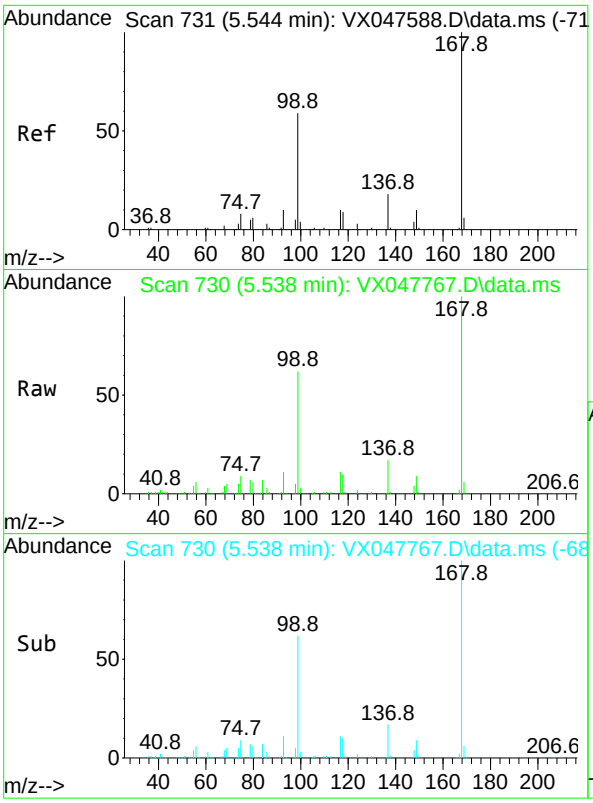
Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

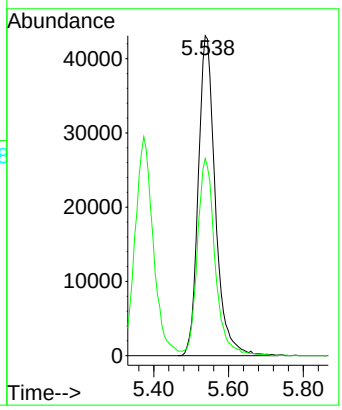




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:168 Resp: 13624

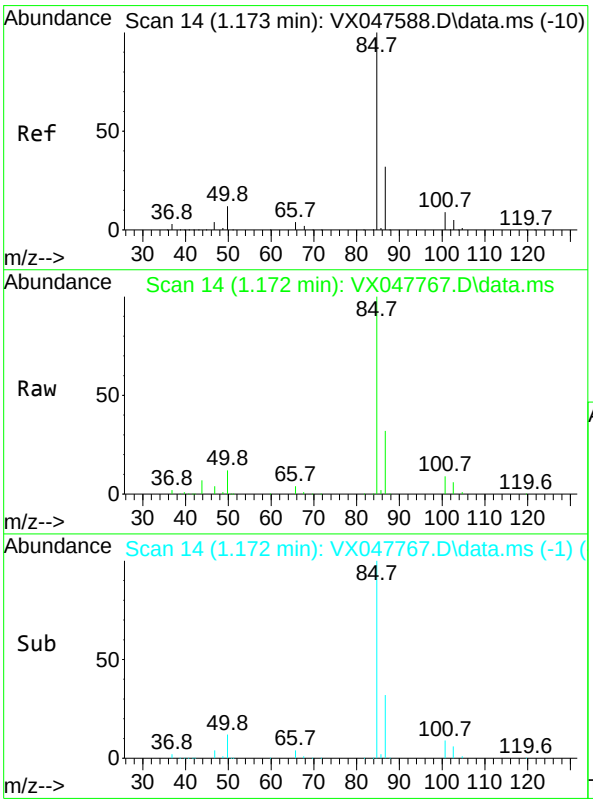
Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

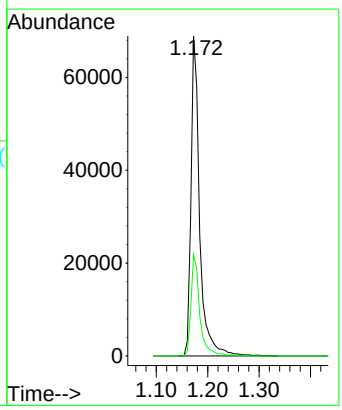
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

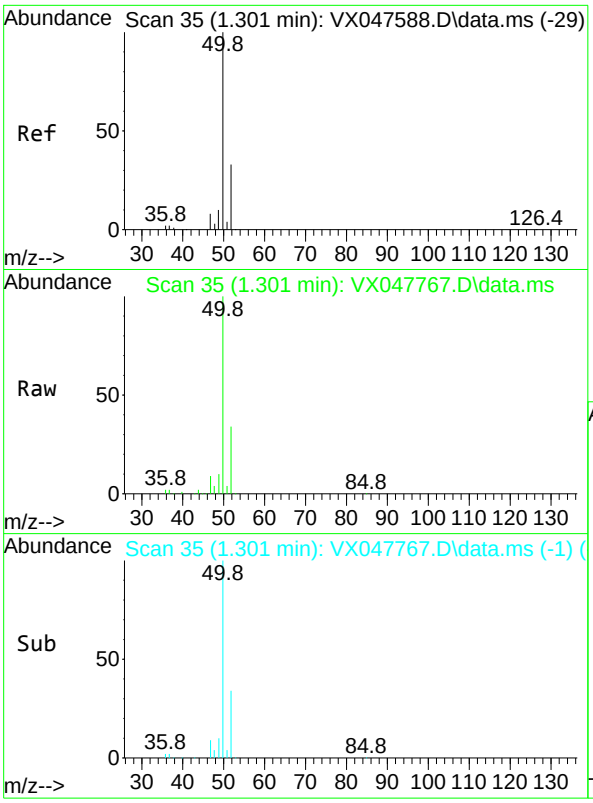


#2
Dichlorodifluoromethane
Concen: 57.267 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 85 Resp: 80794

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3

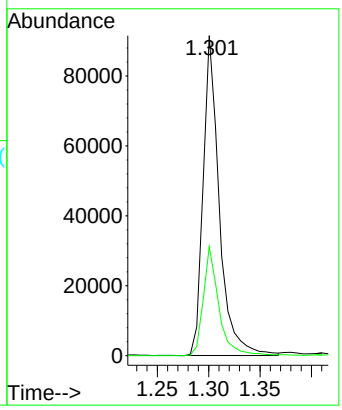




#3
Chloromethane
Concen: 53.970 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 50 Resp: 10007

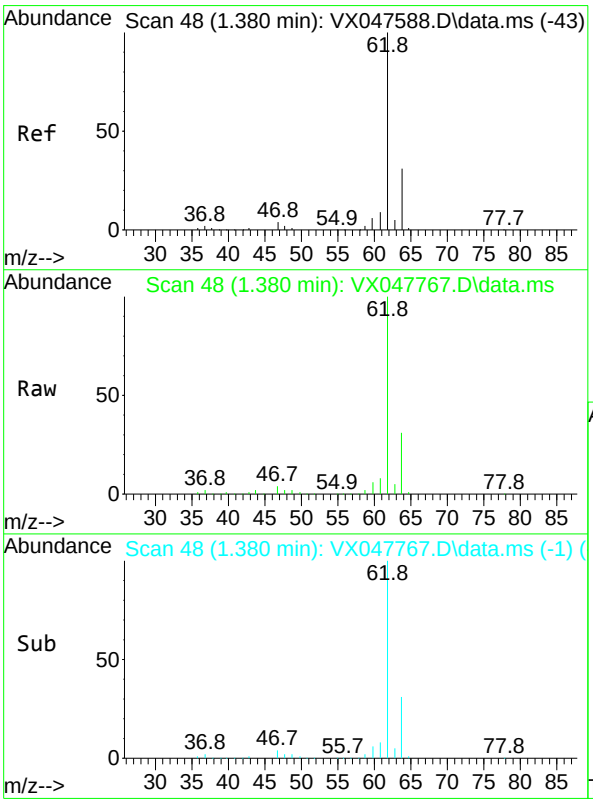
Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

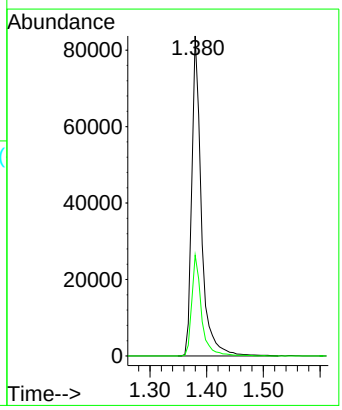
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

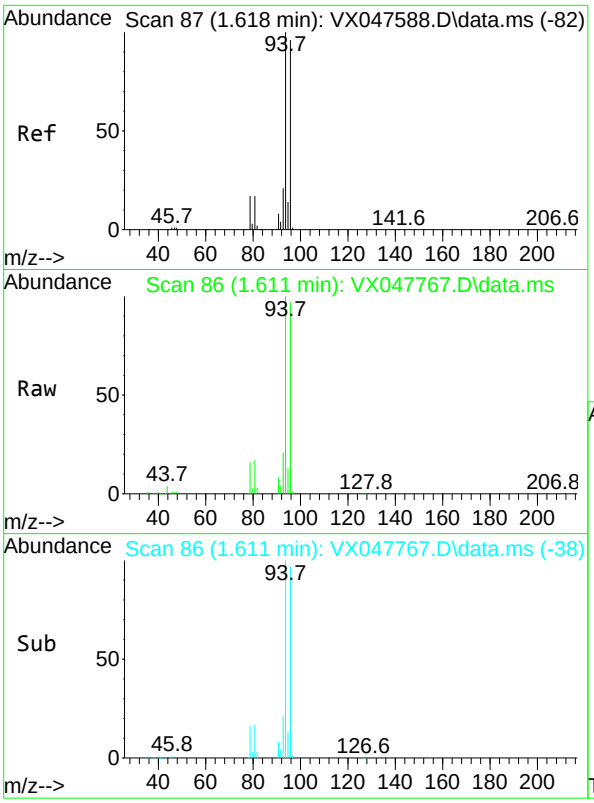


#4
Vinyl Chloride
Concen: 54.491 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 98905

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3

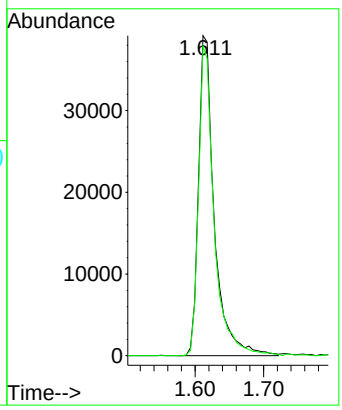




#5
Bromomethane
Concen: 54.792 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 94 Resp: 6306

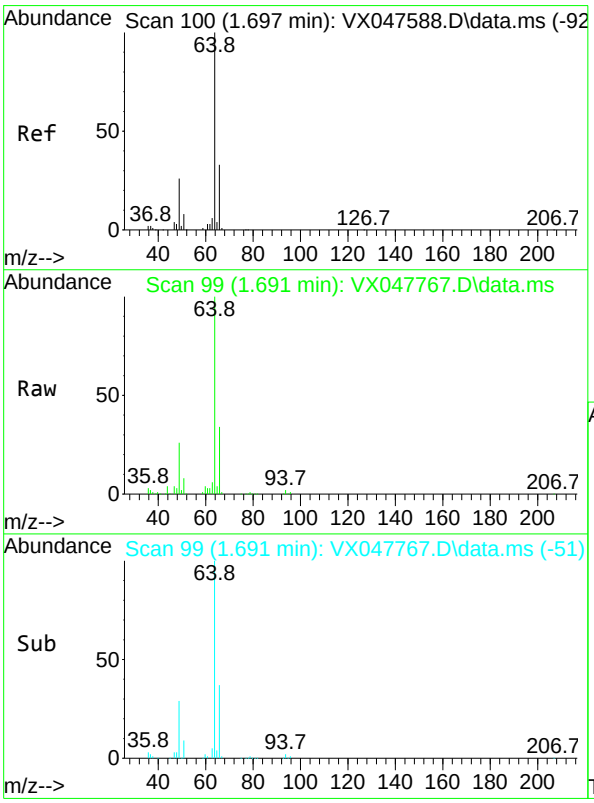
Ion	Ratio	Lower	Upper
94	100		
96	96.6	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

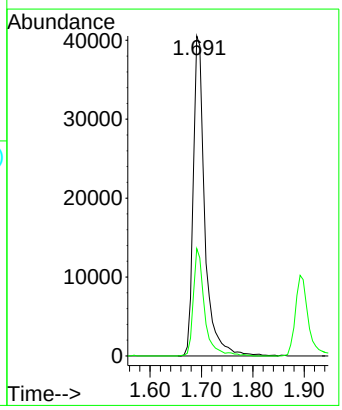
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

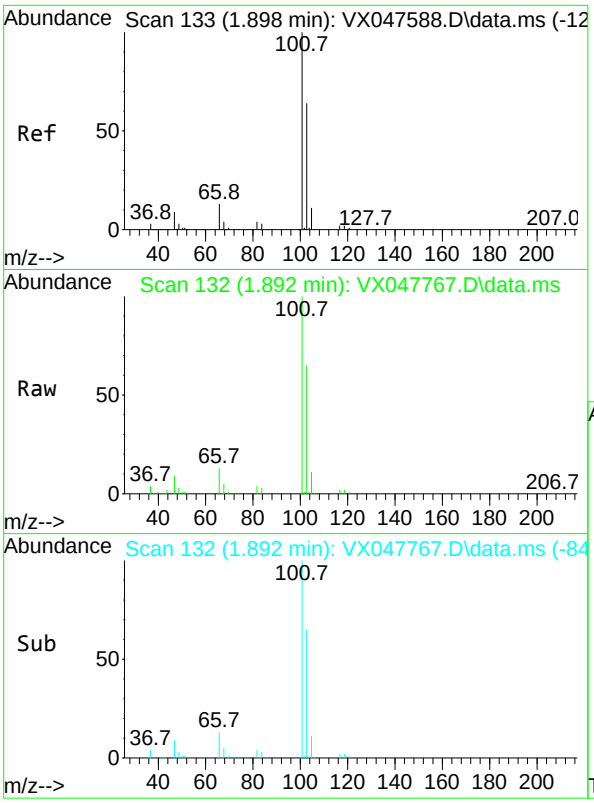


#6
Chloroethane
Concen: 52.368 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 64 Resp: 63530

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.1	39.1

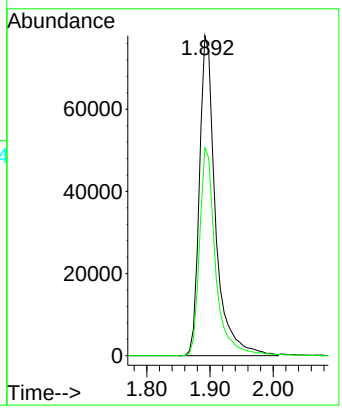




#7
Trichlorofluoromethane
Concen: 51.208 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:101 Resp: 13800

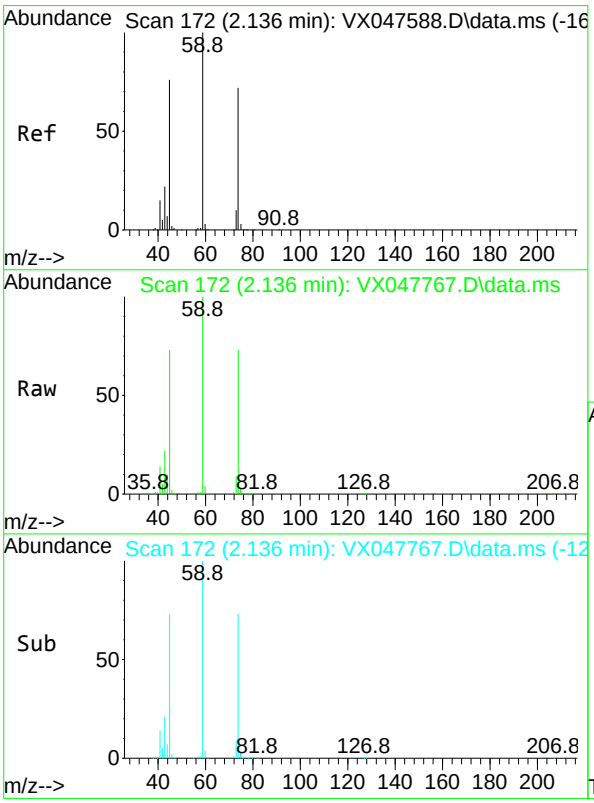
Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

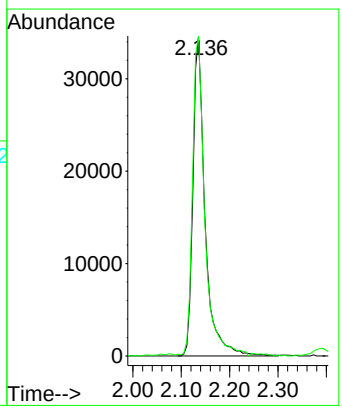
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

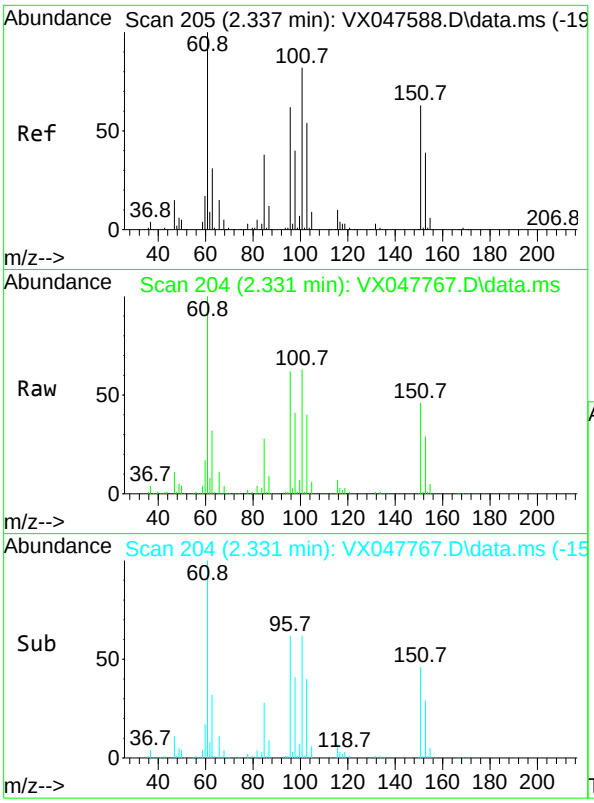


#8
Diethyl Ether
Concen: 54.277 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 74 Resp: 59838

Ion	Ratio	Lower	Upper
74	100		
45	101.9	52.3	156.8

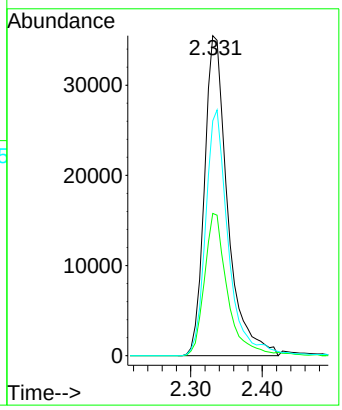




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.667 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:101 Resp: 7984

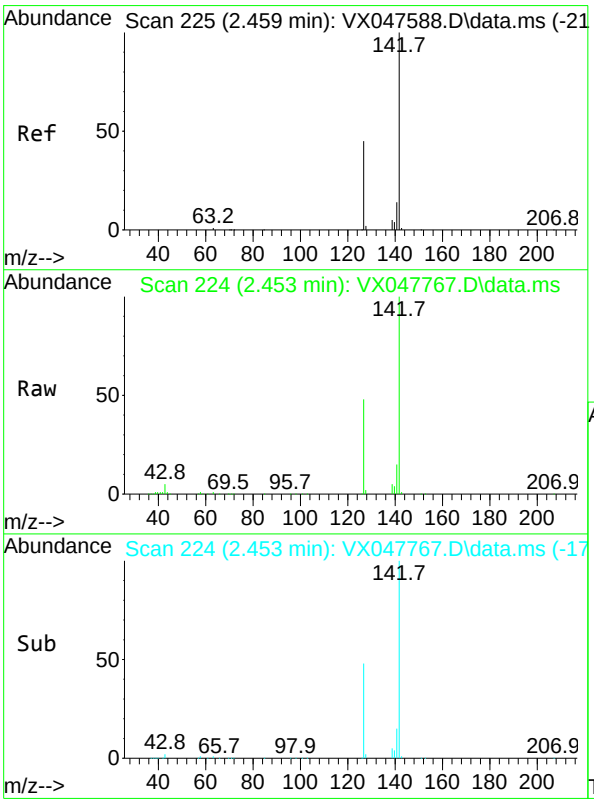
Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	75.7	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

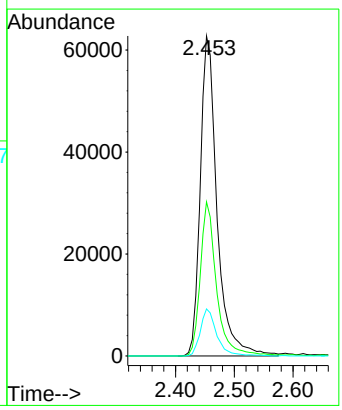
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

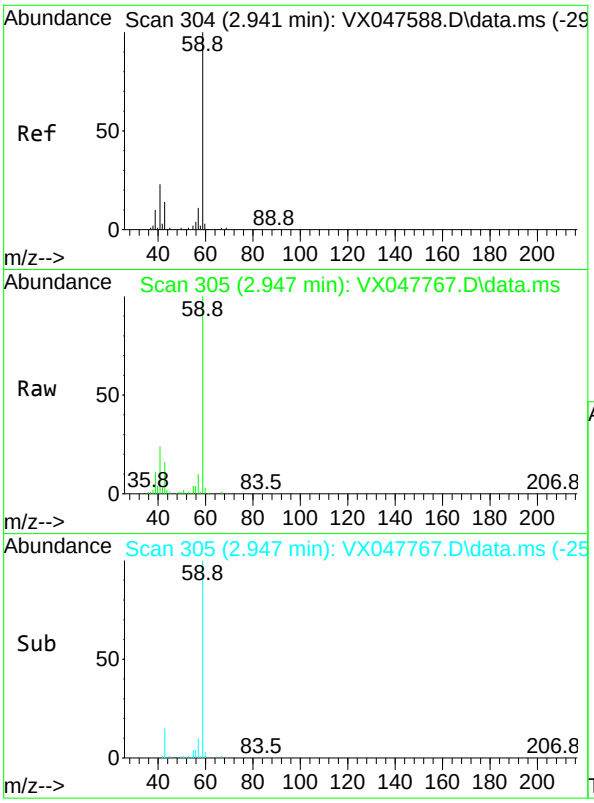


#10
Methyl Iodide
Concen: 50.757 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:142 Resp: 124745

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	14.5	11.4	17.0

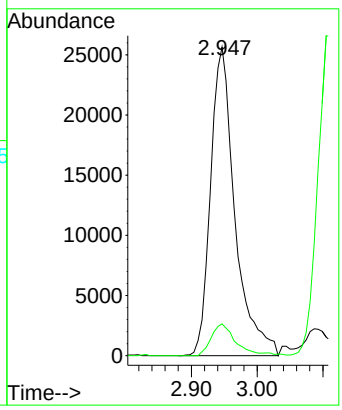




#11
Tert butyl alcohol
Concen: 273.139 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 59 Resp: 6597

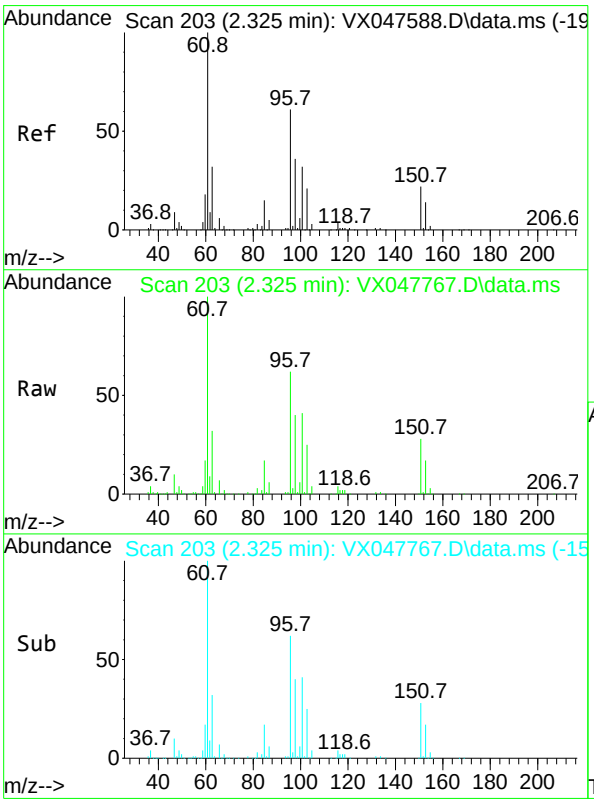
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

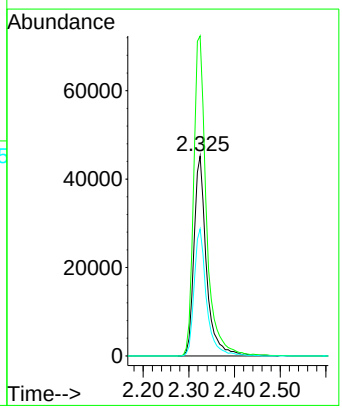
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

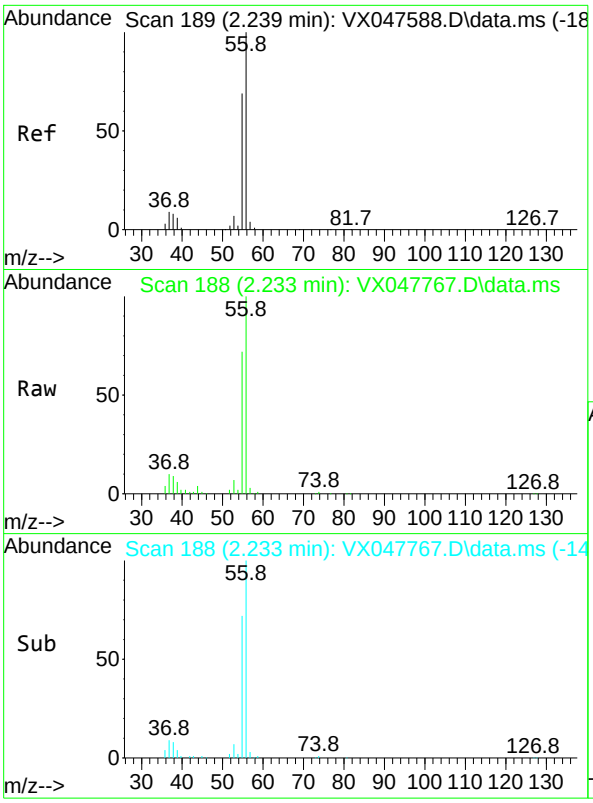


#12
1,1-Dichloroethene
Concen: 53.075 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 85914

Ion	Ratio	Lower	Upper
96	100		
61	160.1	131.0	196.6
98	63.6	47.7	71.5

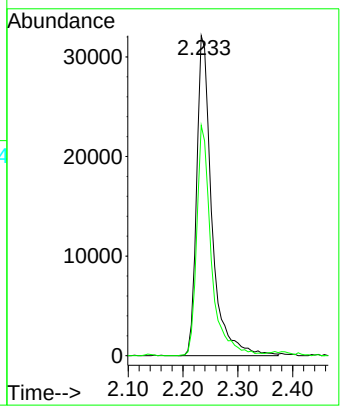




#13
Acrolein
Concen: 278.592 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 56 Resp: 6200

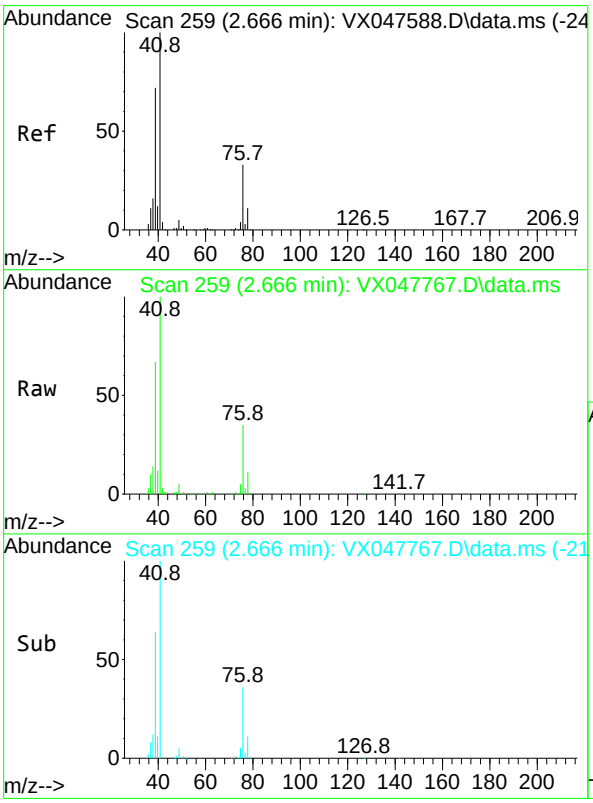
Ion	Ratio	Lower	Upper
56	100		
55	69.2	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

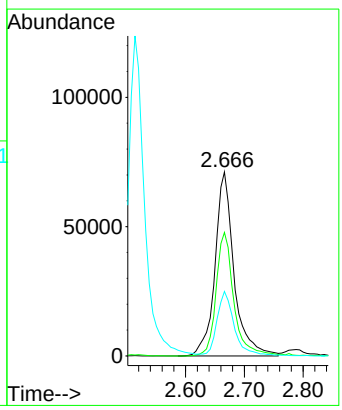
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

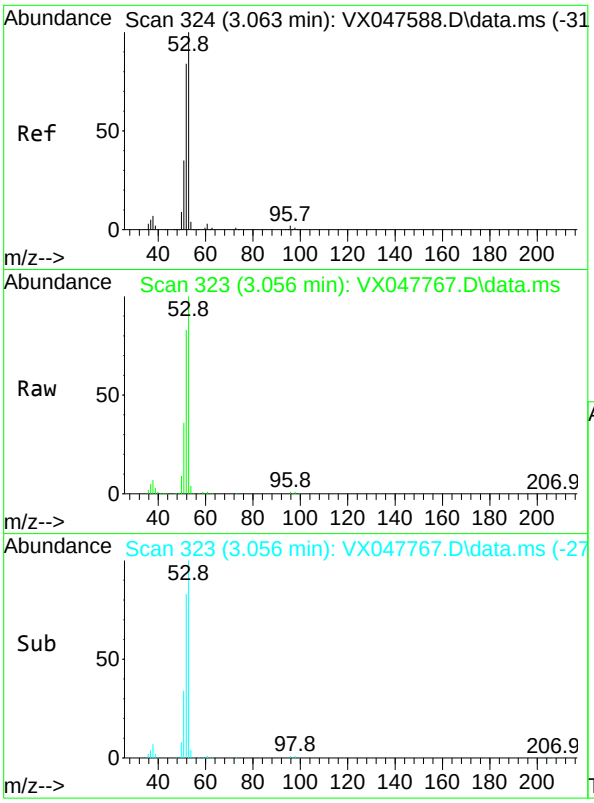


#14
Allyl chloride
Concen: 47.997 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 160323

Ion	Ratio	Lower	Upper
41	100		
39	62.7	54.7	82.1
76	31.5	25.7	38.5

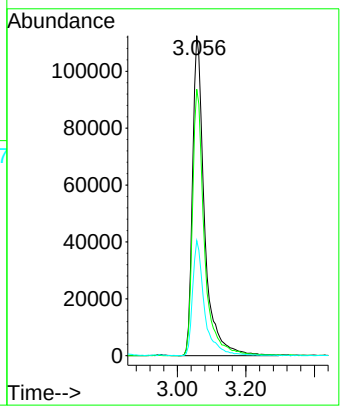




#15
Acrylonitrile
Concen: 306.873 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 53 Resp: 27454

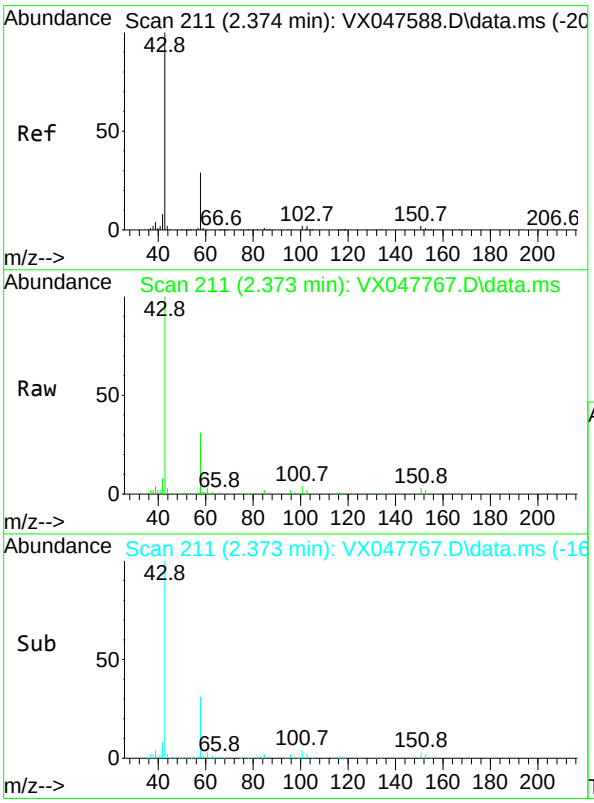
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	35.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

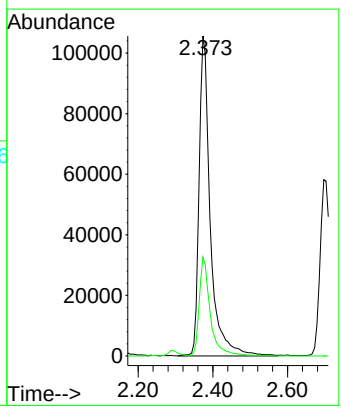
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

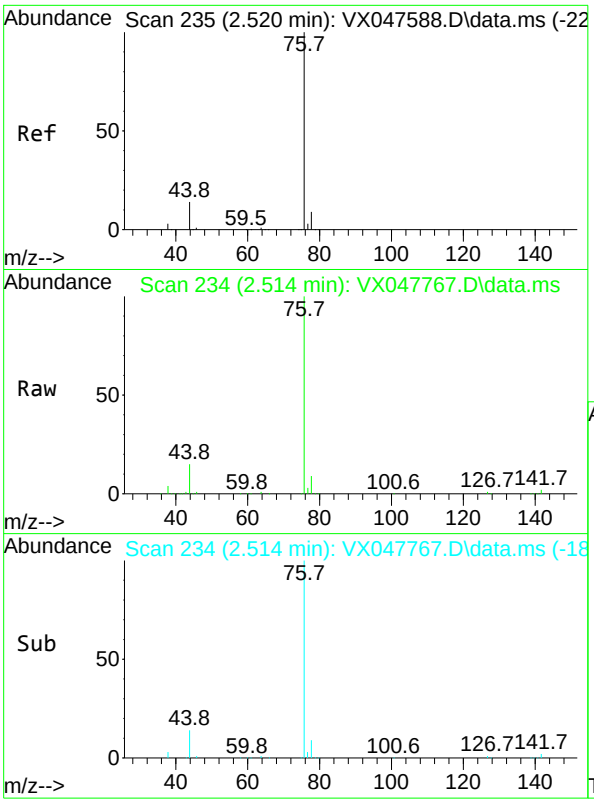


#16
Acetone
Concen: 233.292 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 219982

Ion	Ratio	Lower	Upper
43	100		
58	30.9	23.4	35.0

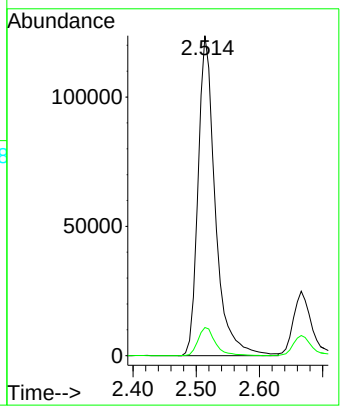




#17
Carbon Disulfide
Concen: 52.888 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 76 Resp: 23437

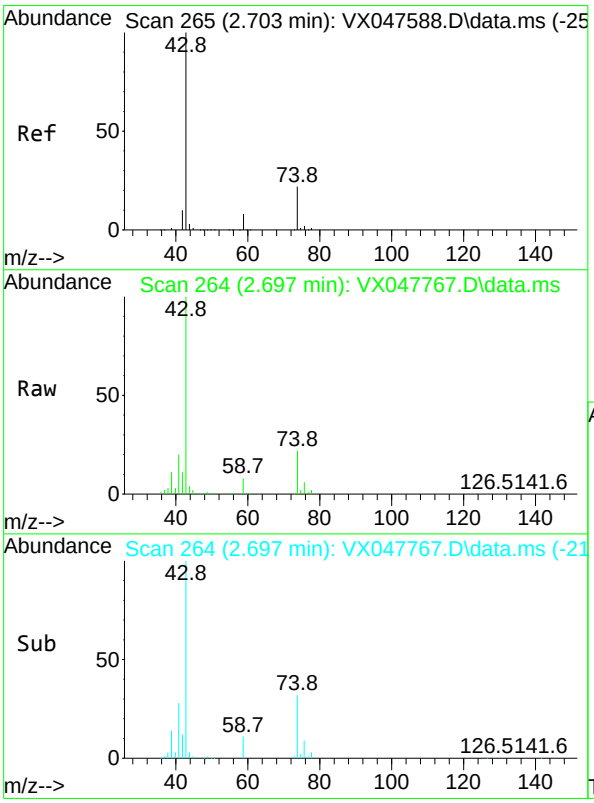
Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

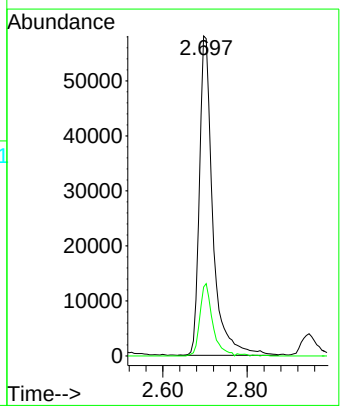
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

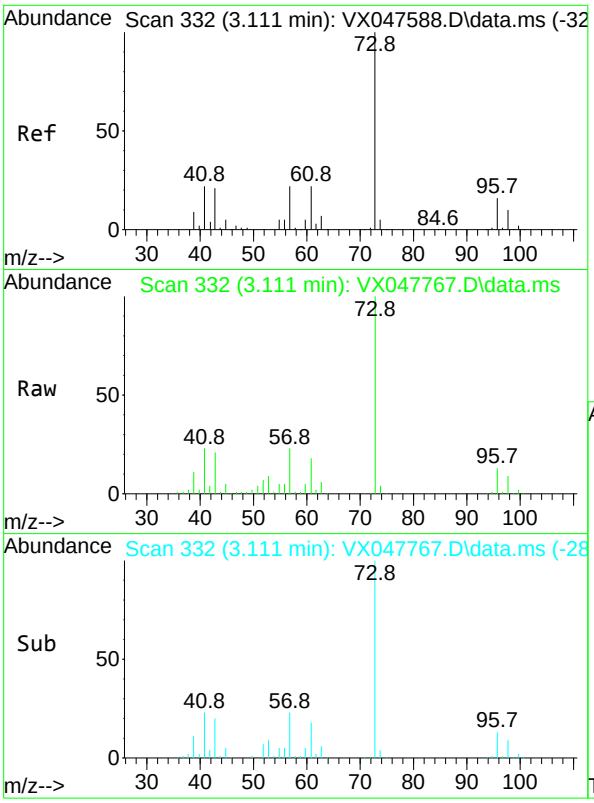


#18
Methyl Acetate
Concen: 61.011 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 128034

Ion	Ratio	Lower	Upper
43	100		
74	21.6	17.4	26.2

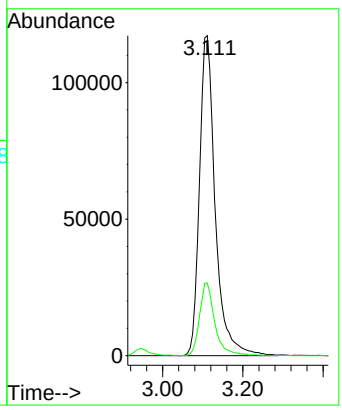




#19
Methyl tert-butyl Ether
Concen: 54.228 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 73 Resp: 32043

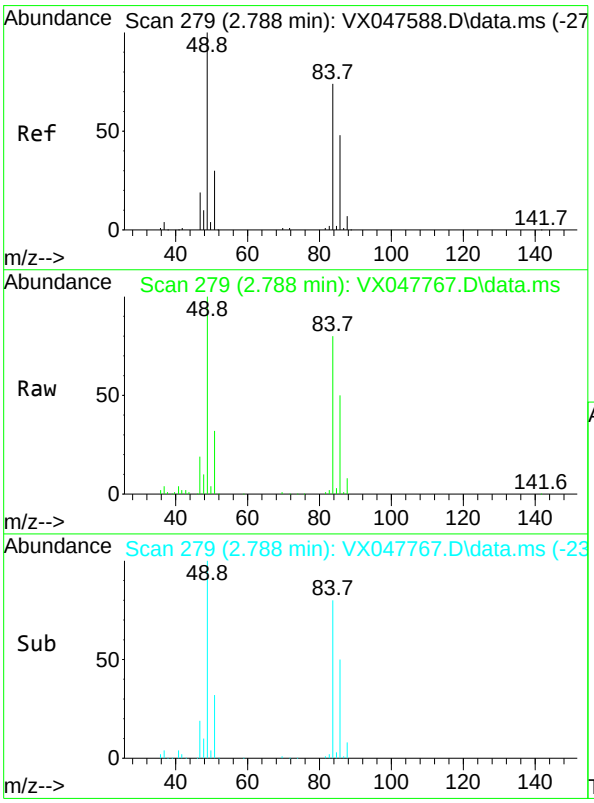
Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

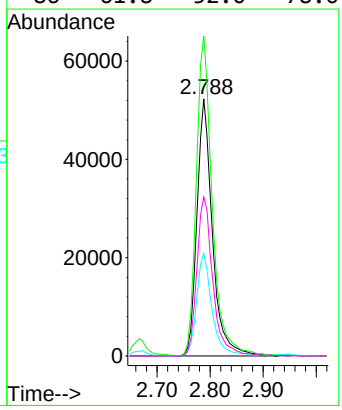
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

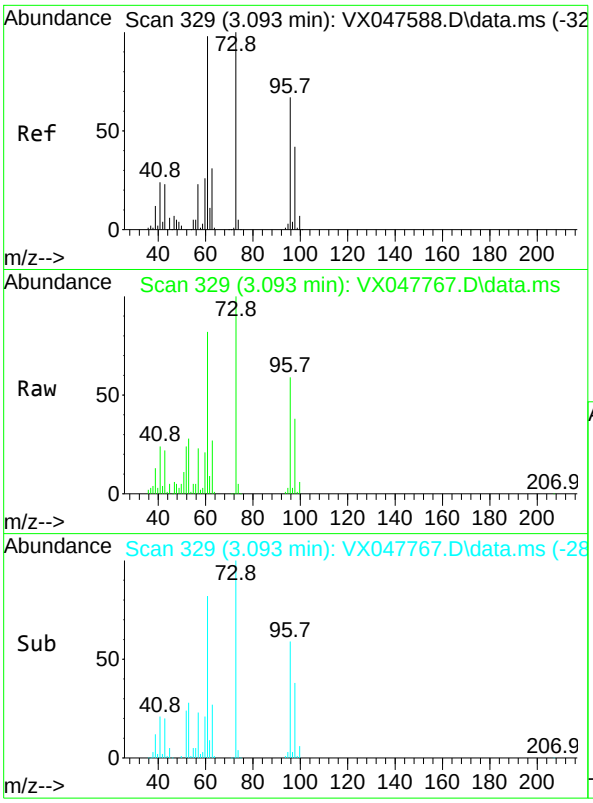


#20
Methylene Chloride
Concen: 53.176 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 84 Resp: 106137

Ion	Ratio	Lower	Upper
84	100		
49	124.3	108.6	162.8
51	39.9	32.6	48.8
86	61.8	52.0	78.0

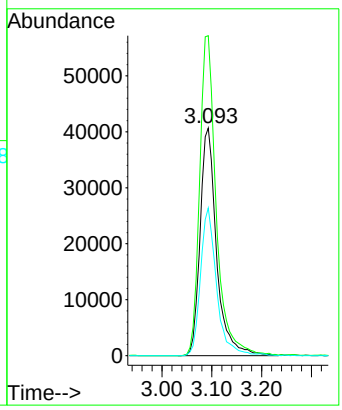




#21
trans-1,2-Dichloroethene
Concen: 53.545 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 9331

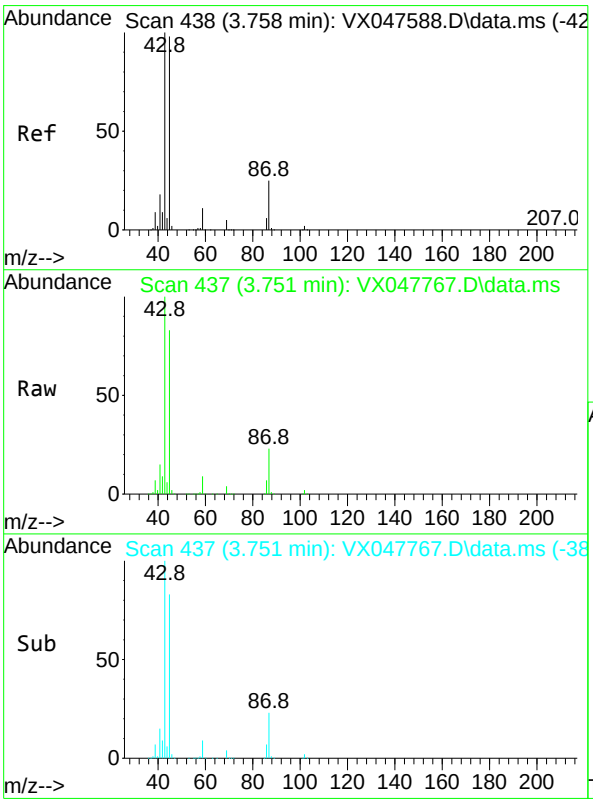
Ion	Ratio	Lower	Upper
96	100		
61	140.5	116.2	174.2
98	64.9	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

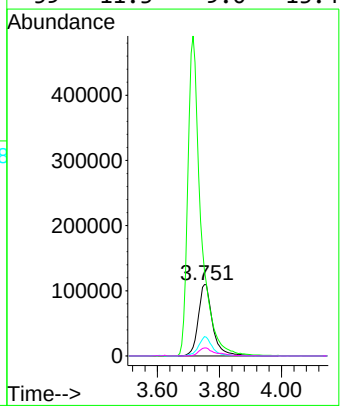
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

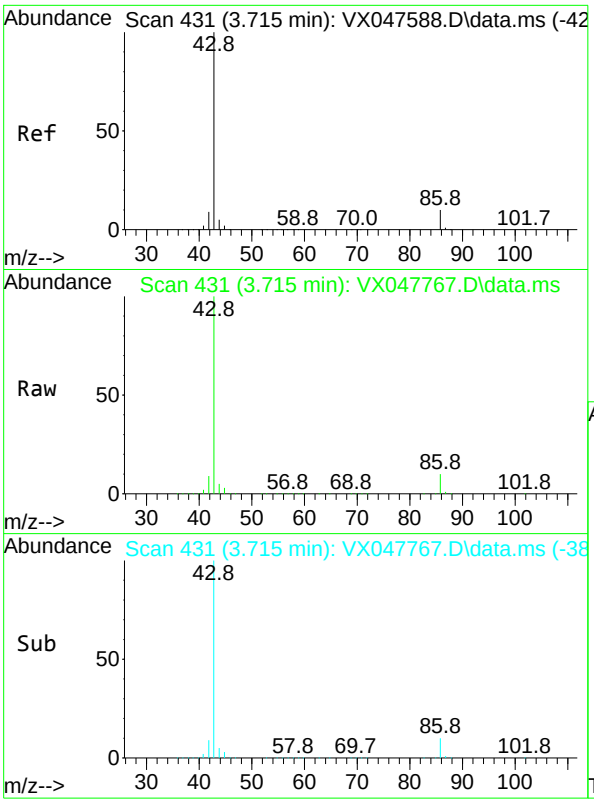


#22
Diisopropyl ether
Concen: 54.161 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 45 Resp: 350616

Ion	Ratio	Lower	Upper
45	100		
43	119.1	81.0	121.4
87	27.2	20.3	30.5
59	11.3	9.0	13.4

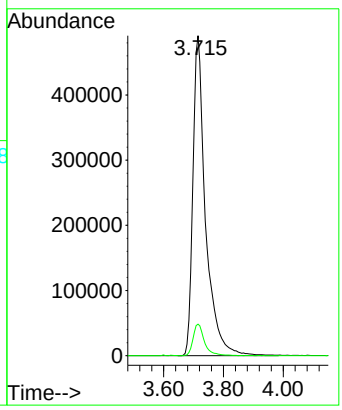




#23
Vinyl Acetate
Concen: 278.405 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 144245

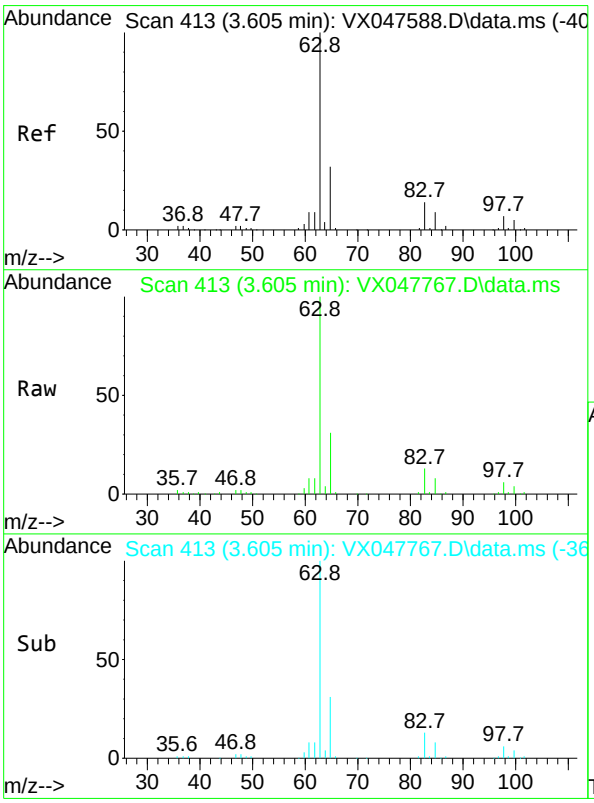
Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

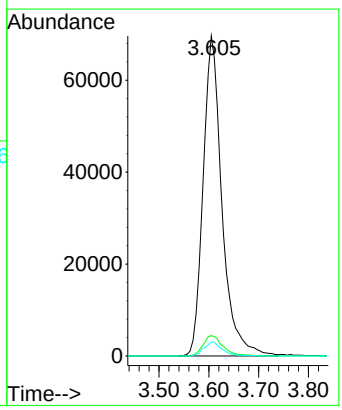
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

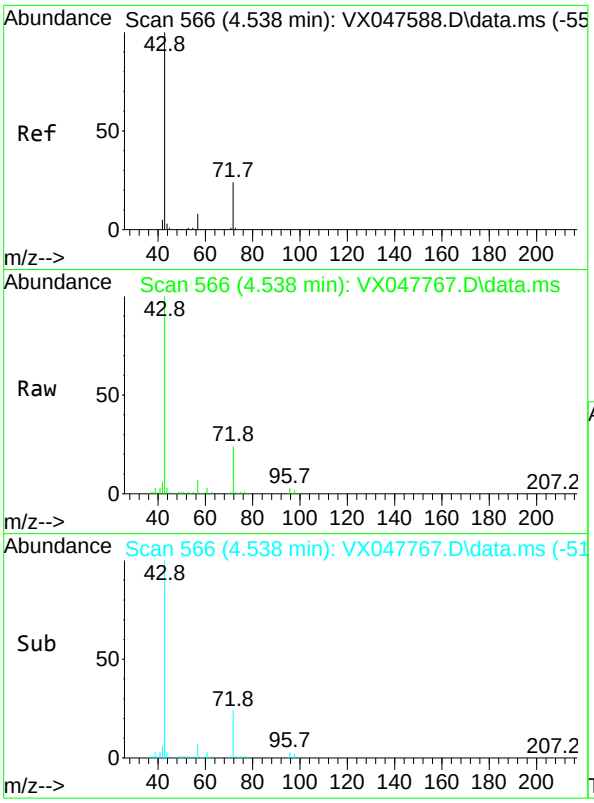


#24
1,1-Dichloroethane
Concen: 53.106 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 182725

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.3	2.3	6.9





#25
2-Butanone
Concen: 289.378 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

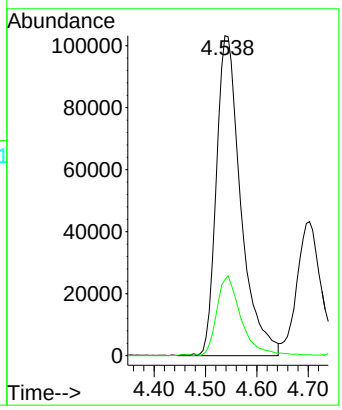
Tgt Ion: 43 Resp: 34036

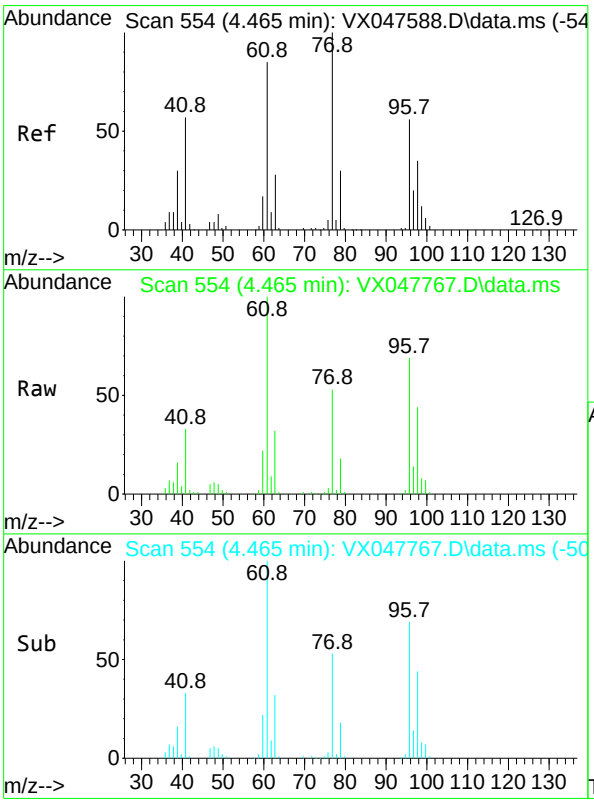
Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

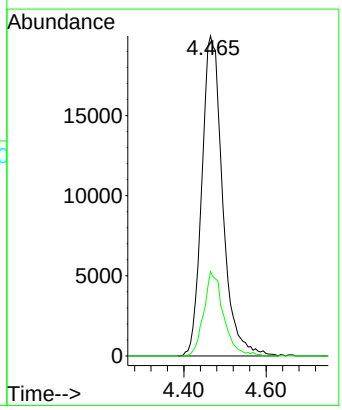


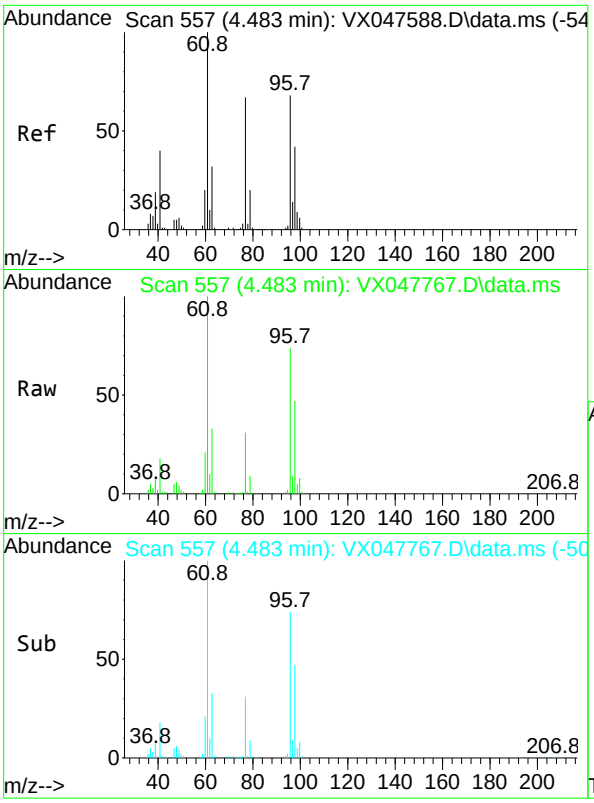


#26
2,2-Dichloropropane
Concen: 24.508 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 77 Resp: 70096

Ion	Ratio	Lower	Upper
77	100		
97	25.0	10.9	32.7

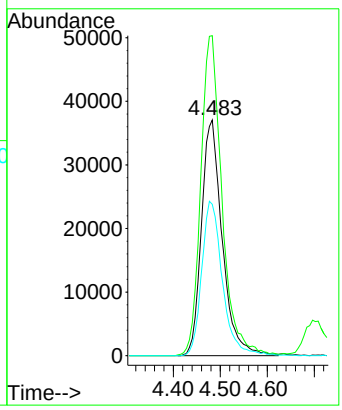




#27
cis-1,2-Dichloroethene
Concen: 53.299 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 11375

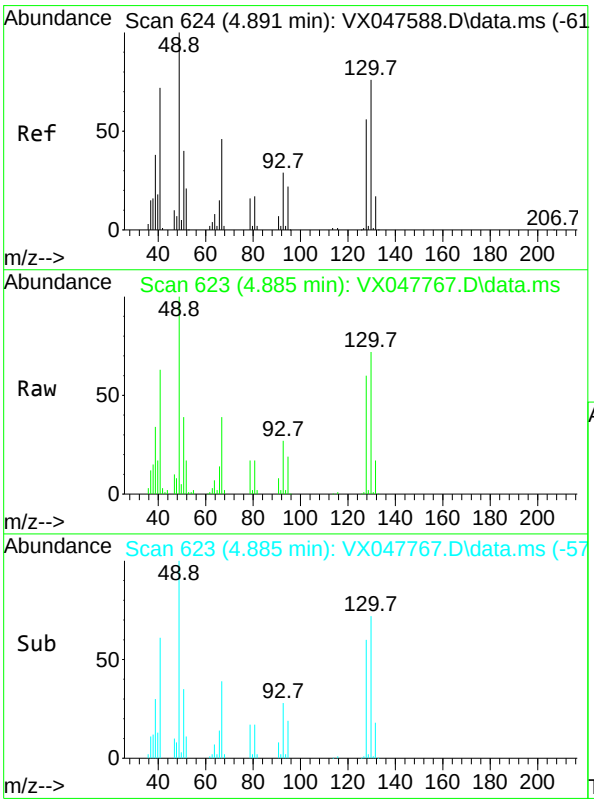
Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	303.2
98	65.5	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

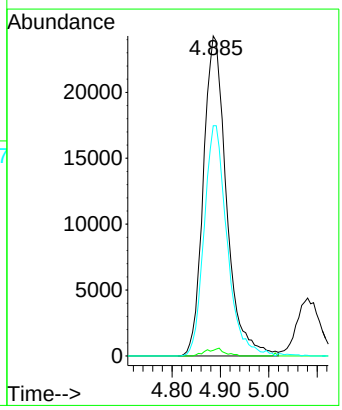
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

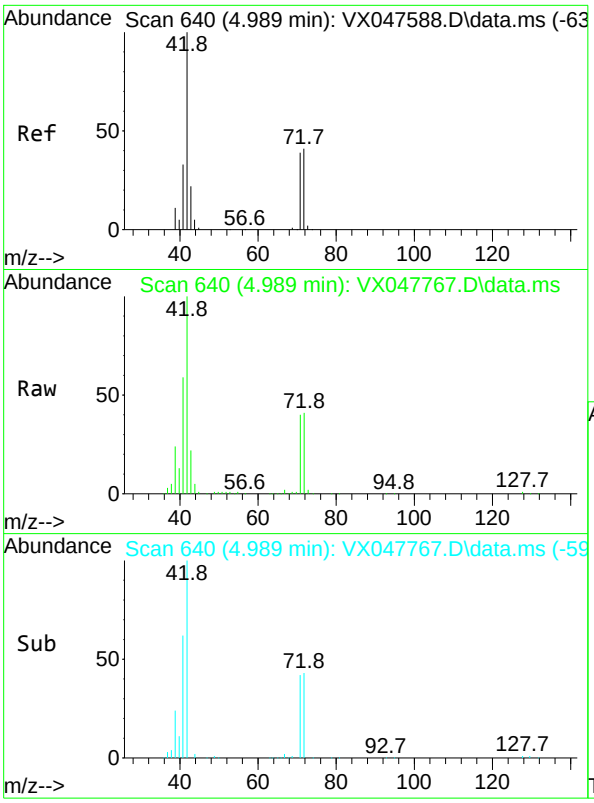


#28
Bromochloromethane
Concen: 53.622 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 49 Resp: 80547

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	71.6	57.8	86.8

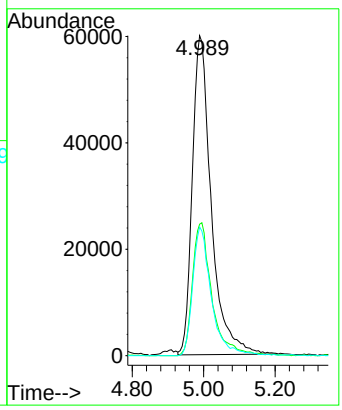




#29
Tetrahydrofuran
Concen: 311.862 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 42 Resp: 22066

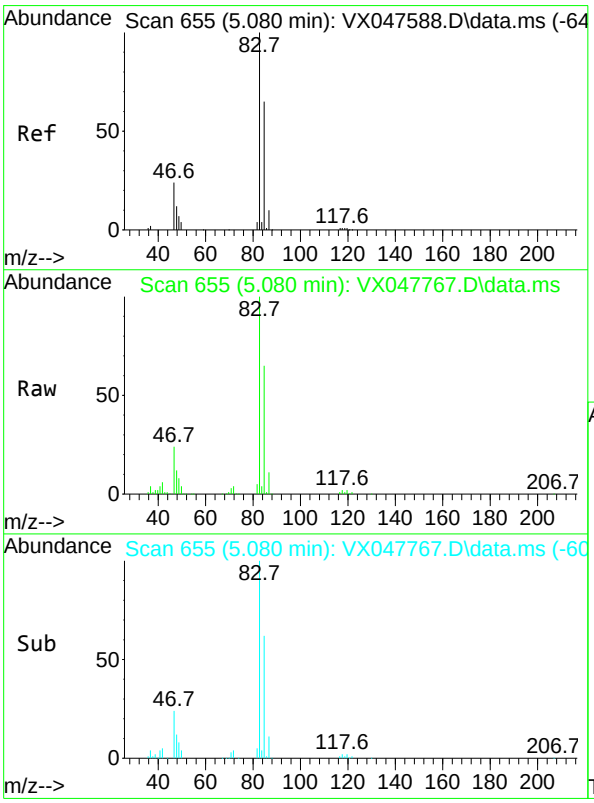
Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	39.6	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

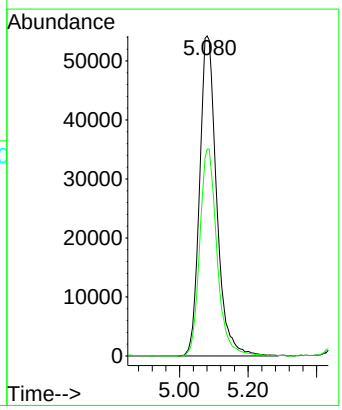
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

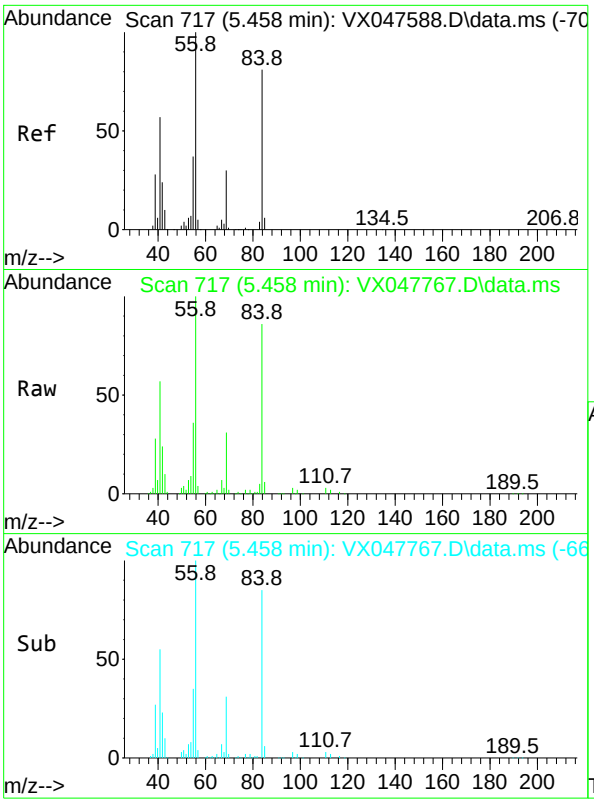


#30
Chloroform
Concen: 53.913 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 187454

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6

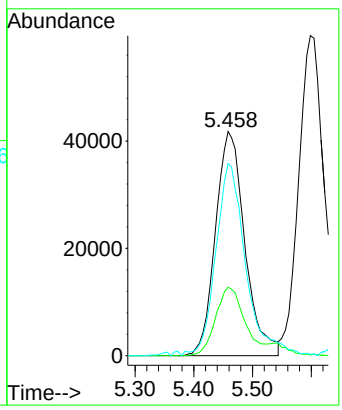




#31
Cyclohexane
Concen: 50.693 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 56 Resp: 14527

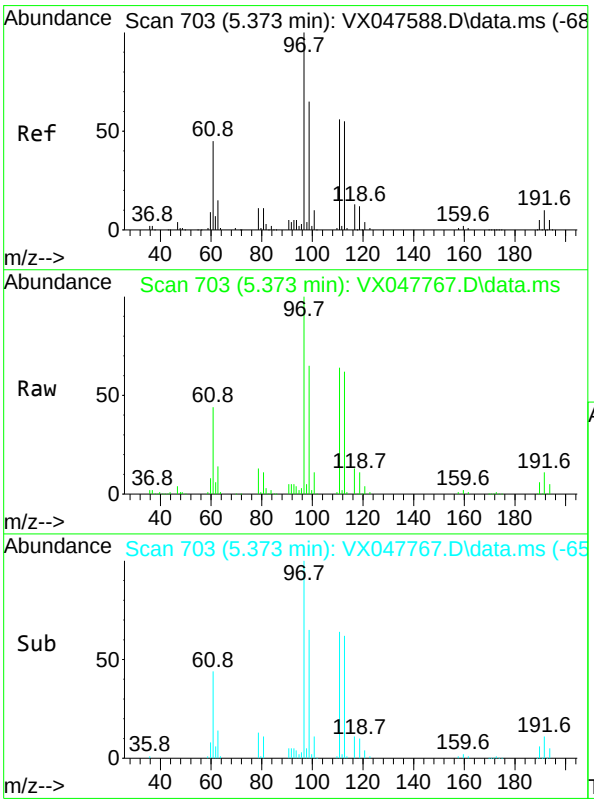
Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.8	35.8
84	83.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

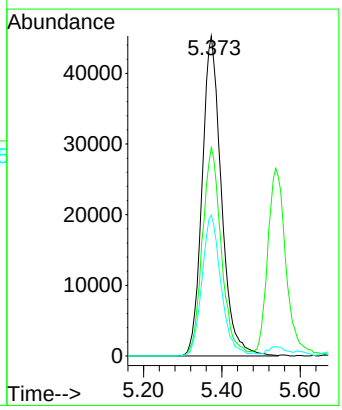
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

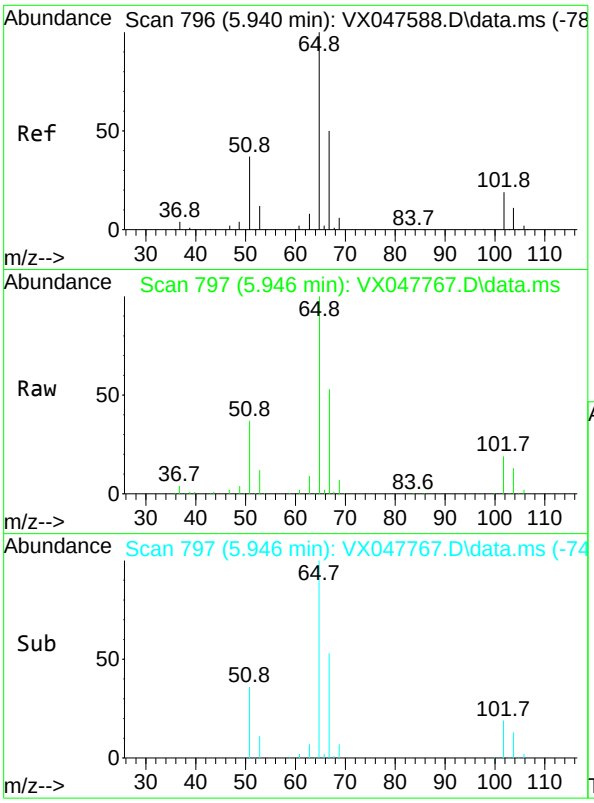


#32
1,1,1-Trichloroethane
Concen: 52.395 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 97 Resp: 154526

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.6	76.0
61	43.6	35.8	53.8

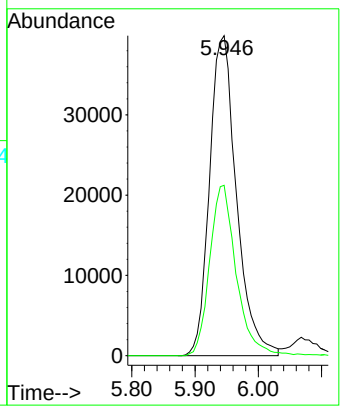




#33
1,2-Dichloroethane-d4
Concen: 54.388 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 65 Resp: 11794

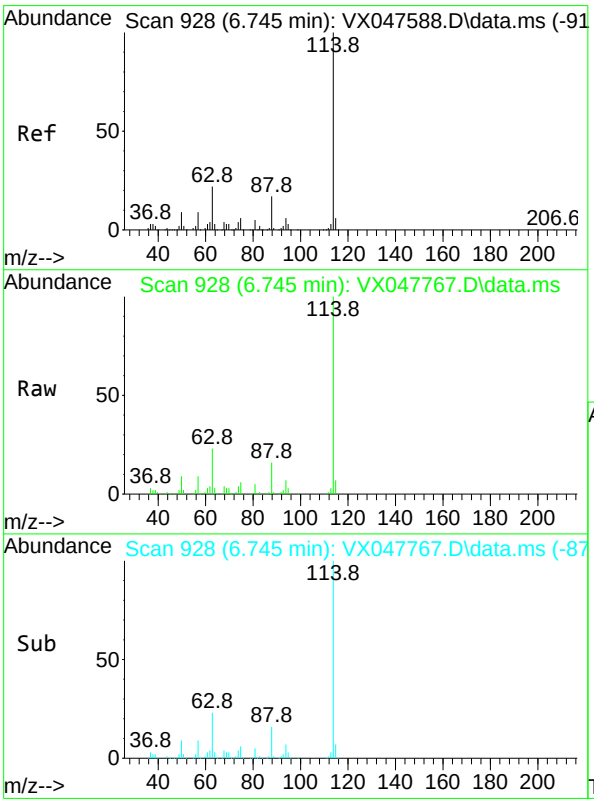
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

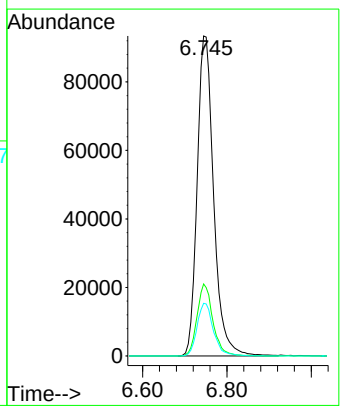
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

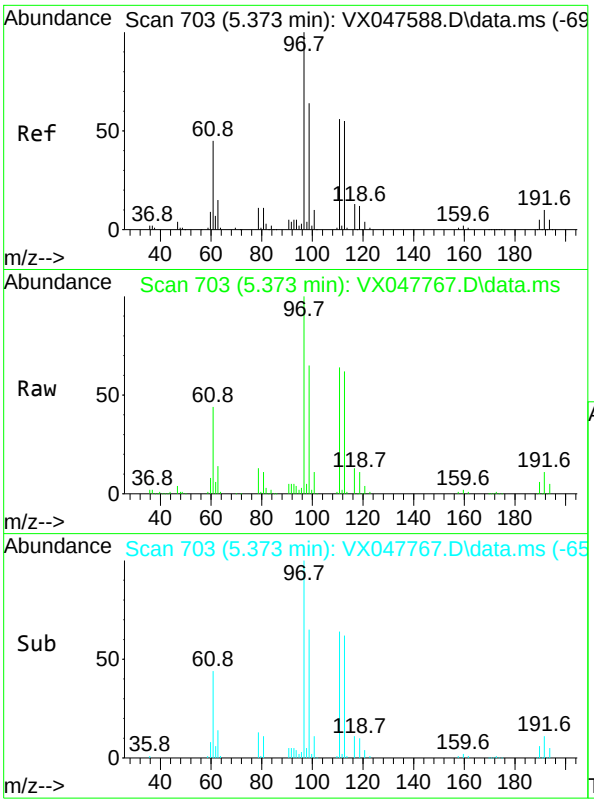


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:114 Resp: 254252

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.5	0.0	34.2

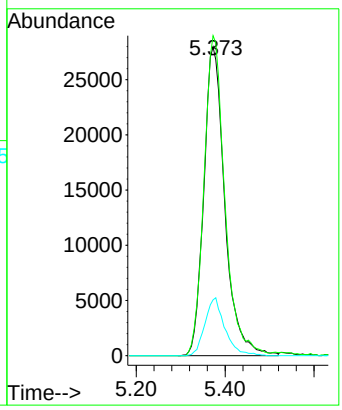




#35
Dibromofluoromethane
Concen: 53.983 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:113 Resp: 9204

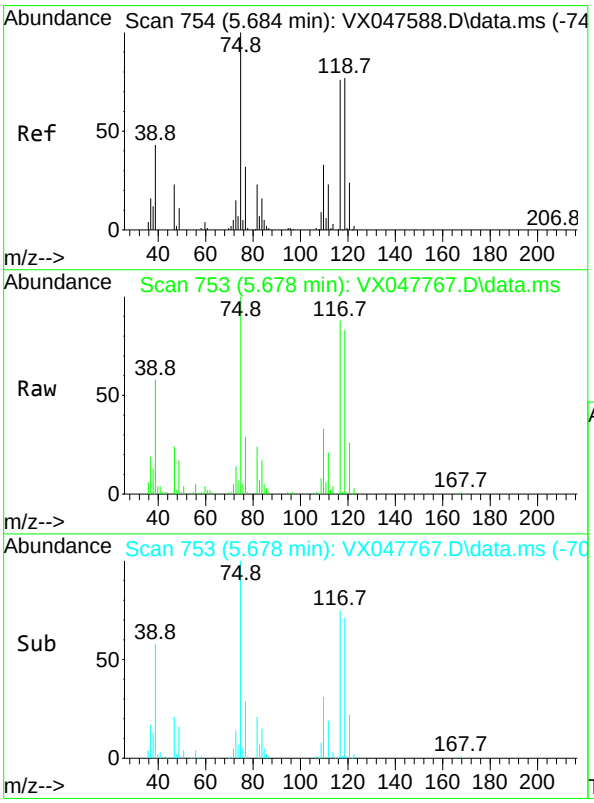
Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

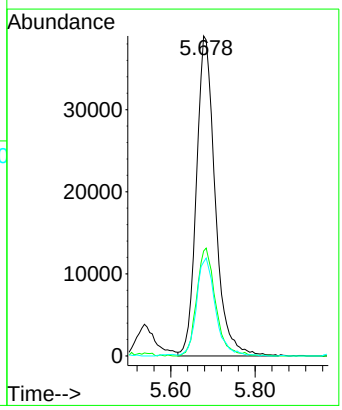
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

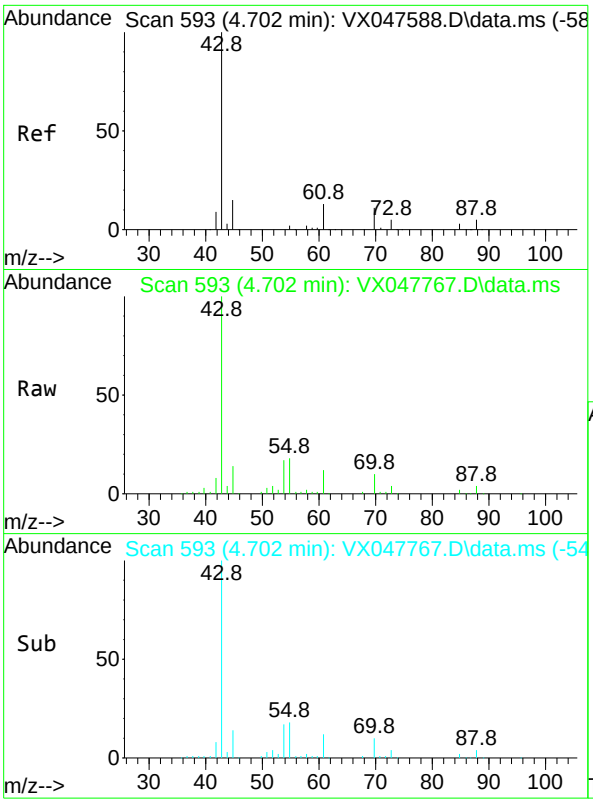


#36
1,1-Dichloropropene
Concen: 48.437 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 120688

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.7	50.1
77	30.0	24.3	36.5

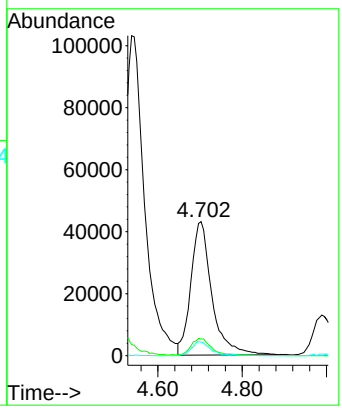




#37
Ethyl Acetate
Concen: 55.869 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 14904

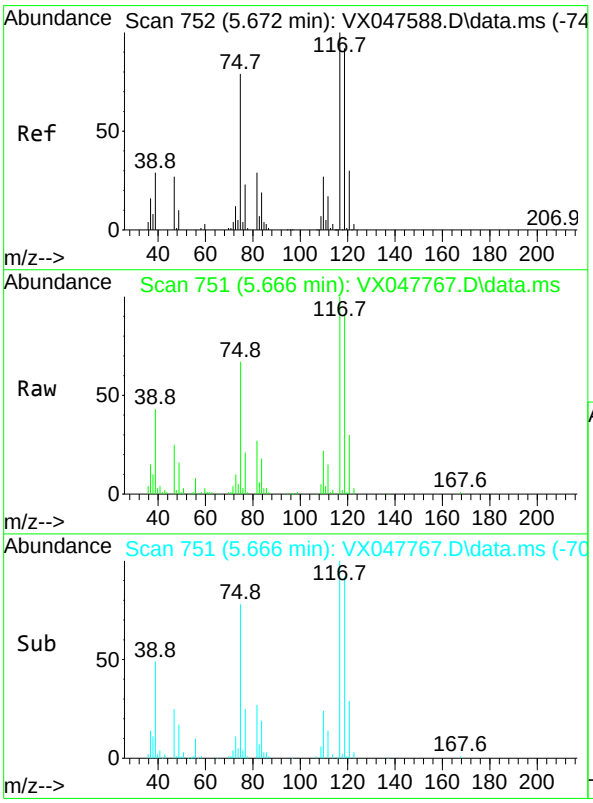
Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	9.4	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

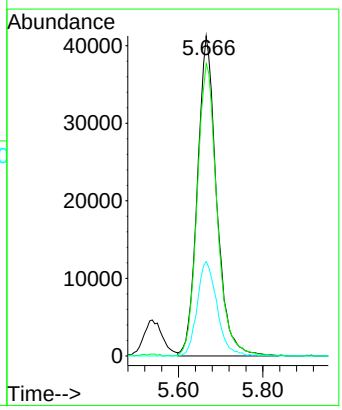
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

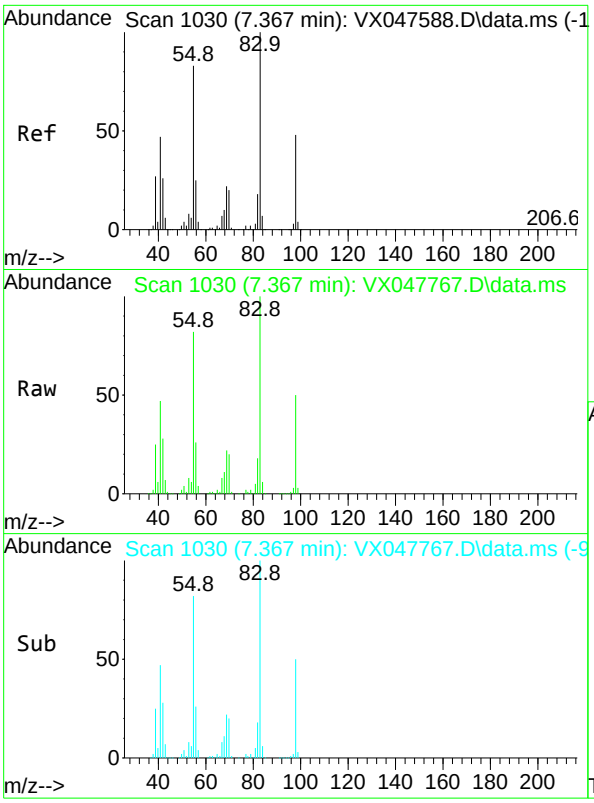


#38
Carbon Tetrachloride
Concen: 48.322 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 130818

Ion	Ratio	Lower	Upper
117	100		
119	91.2	73.4	110.2
121	29.5	23.8	35.6

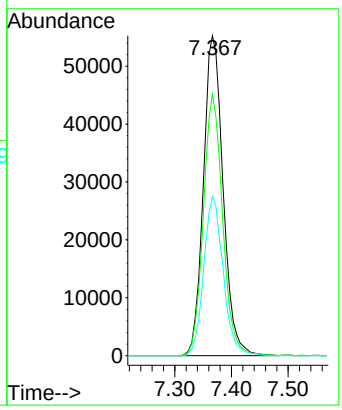




#39
Methylcyclohexane
Concen: 47.171 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 13341

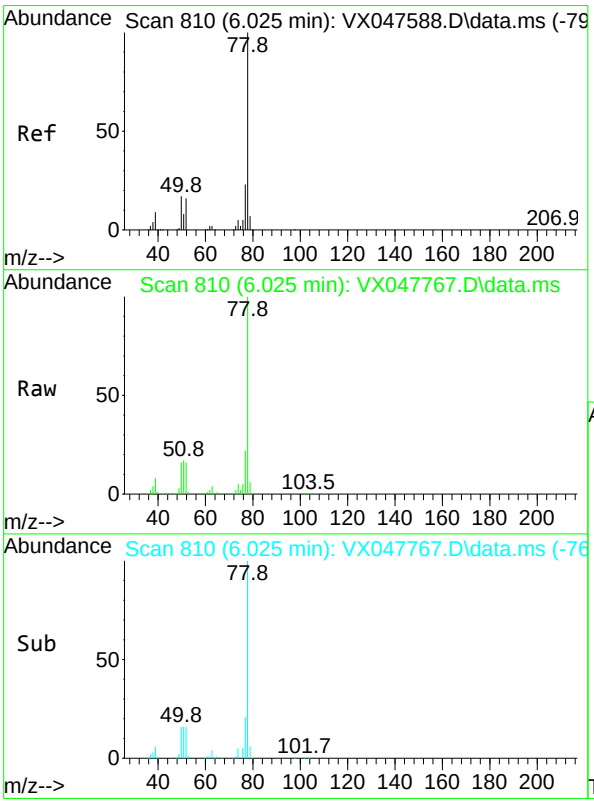
Ion	Ratio	Lower	Upper
83	100		
55	81.7	66.4	99.6
98	49.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

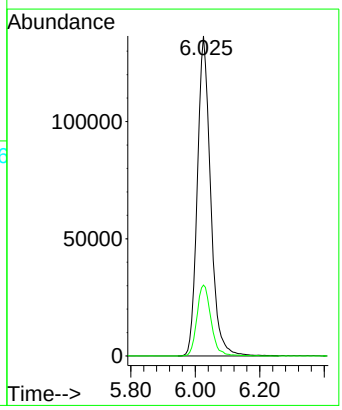
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

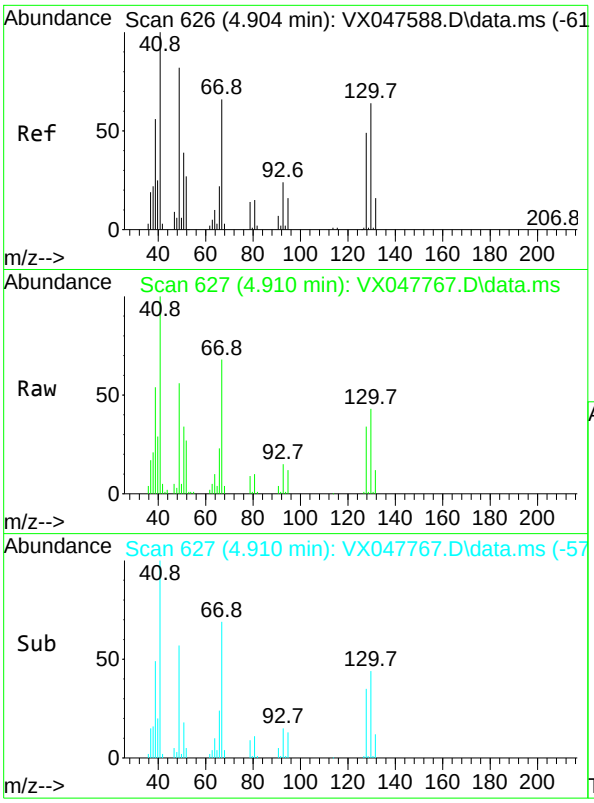


#40
Benzene
Concen: 51.523 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 78 Resp: 389912

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.8	28.2

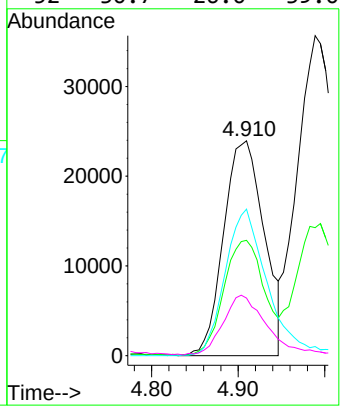




#41
Methacrylonitrile
Concen: 56.618 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 7797

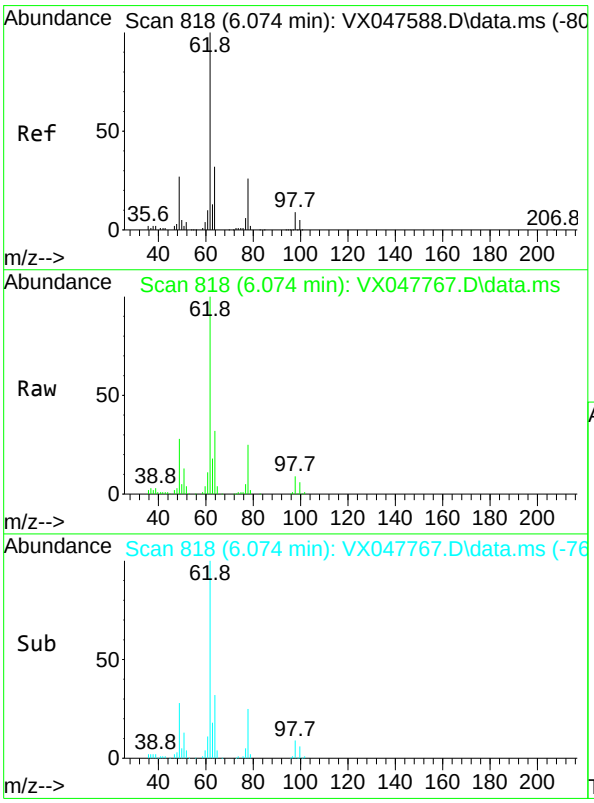
Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	73.2	58.6	87.8
52	30.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

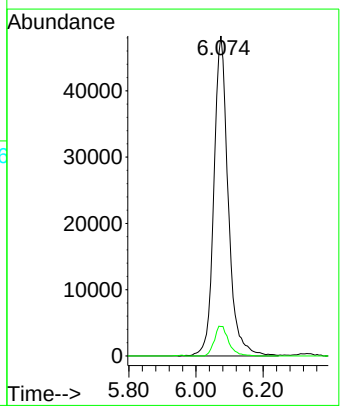
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

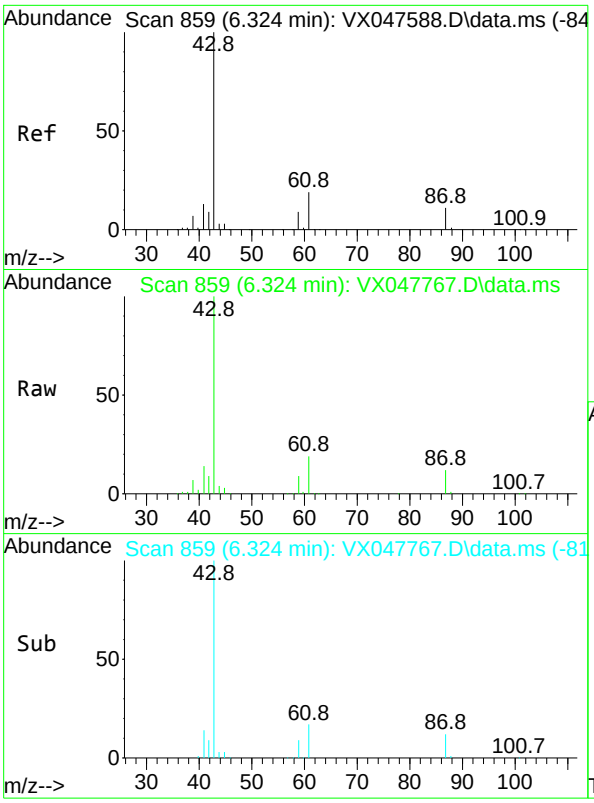


#42
1,2-Dichloroethane
Concen: 49.663 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 143000

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0

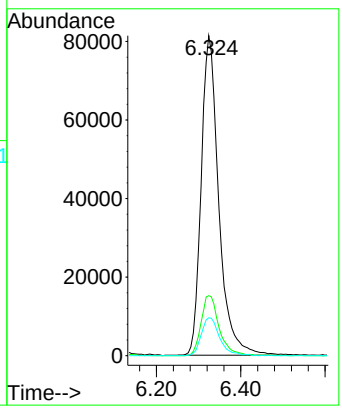




#43
Isopropyl Acetate
Concen: 53.933 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 23598

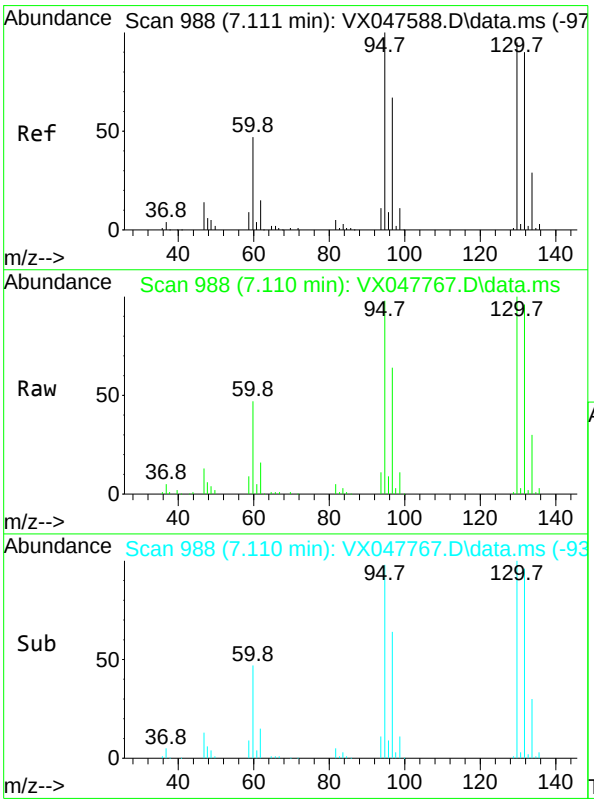
Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.4	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

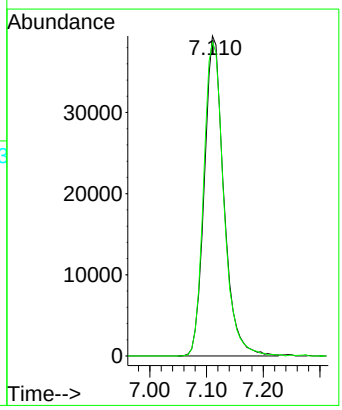
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

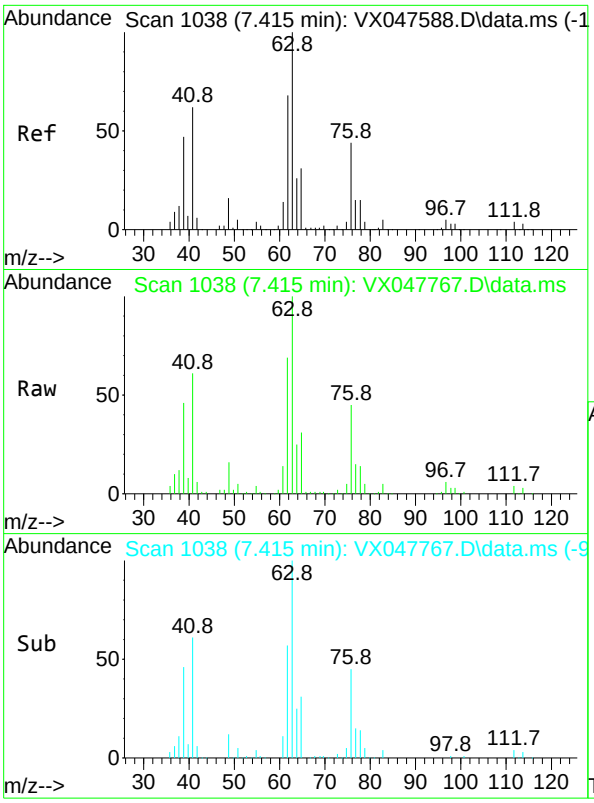


#44
Trichloroethene
Concen: 51.488 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:130 Resp: 94203

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	210.8

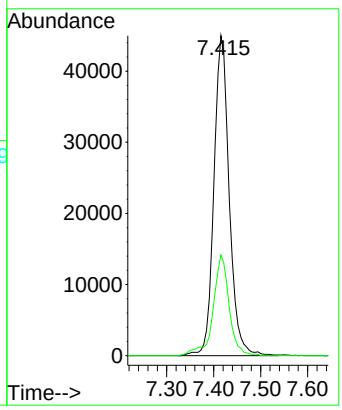




#45
1,2-Dichloropropane
Concen: 52.653 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 10203

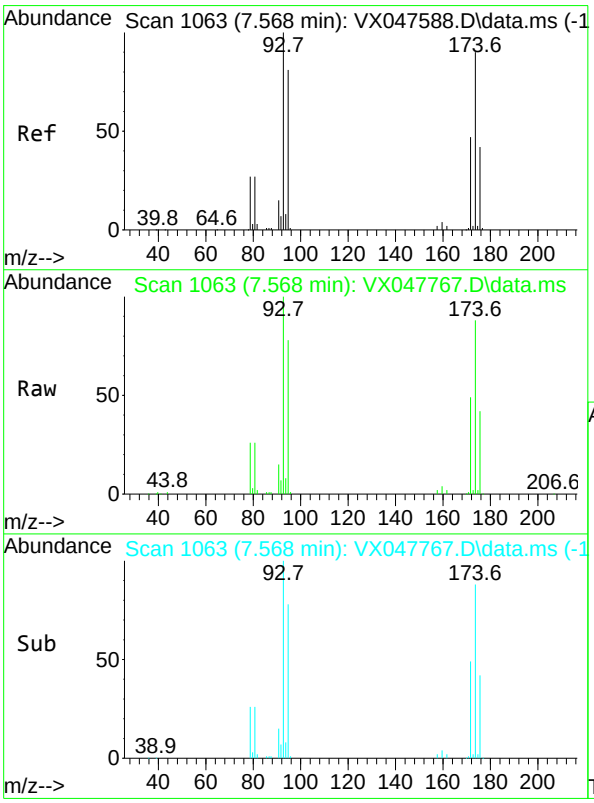
Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

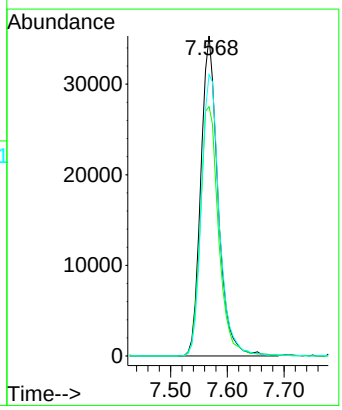
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

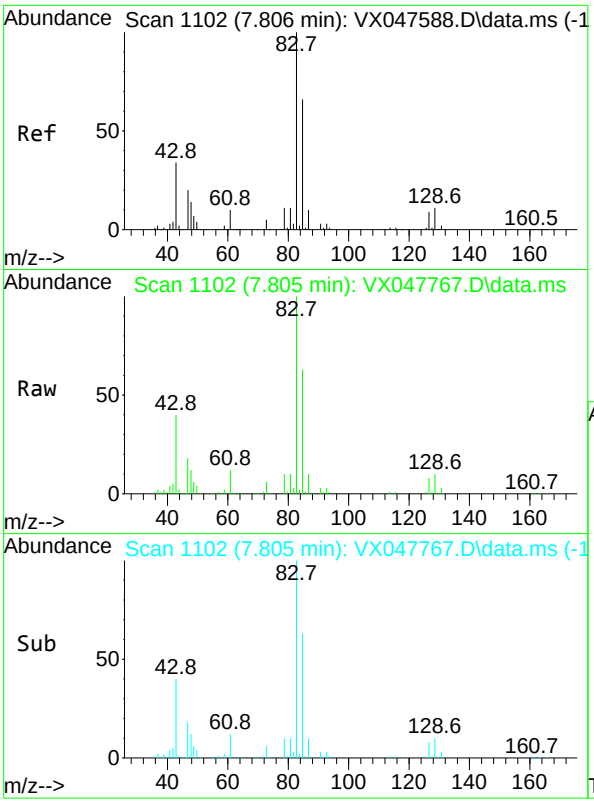


#46
Dibromomethane
Concen: 52.881 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 93 Resp: 74570

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.5	71.6	107.4

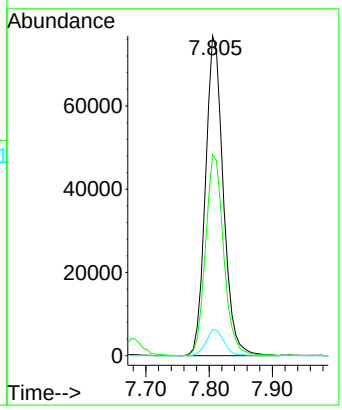




#47
Bromodichloromethane
Concen: 51.676 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 15037

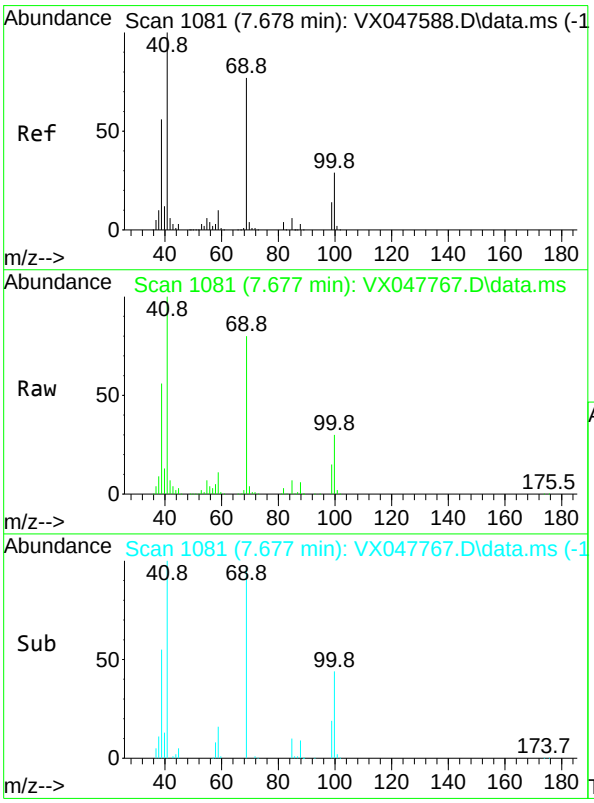
Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

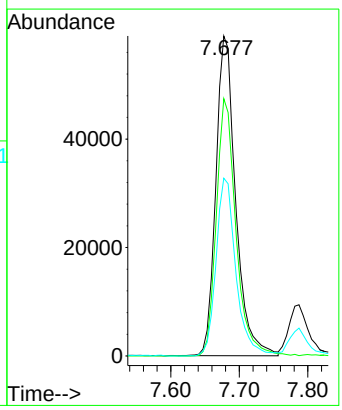
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

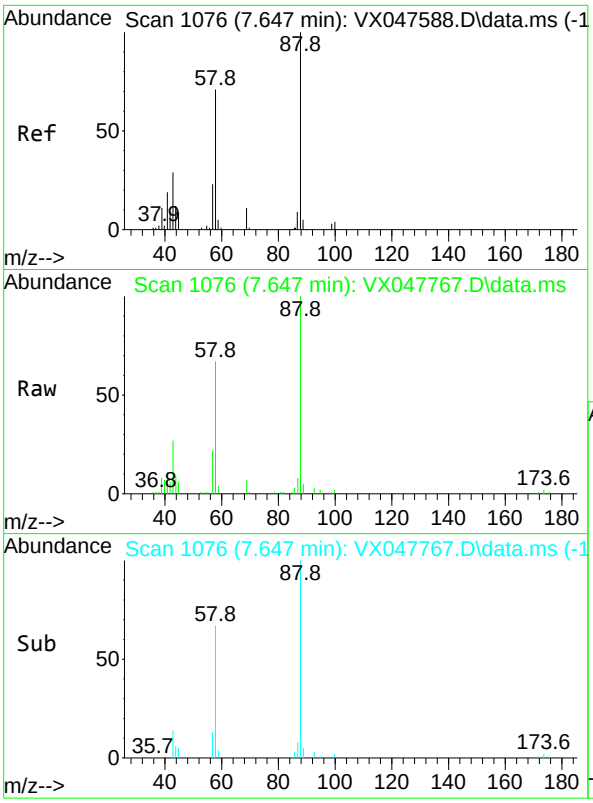


#48
Methyl methacrylate
Concen: 54.378 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 118513

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	55.7	45.8	68.6

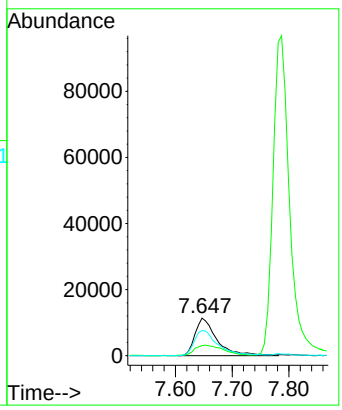




#49
1,4-Dioxane
Concen: 1379.627 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 88 Resp: 3038

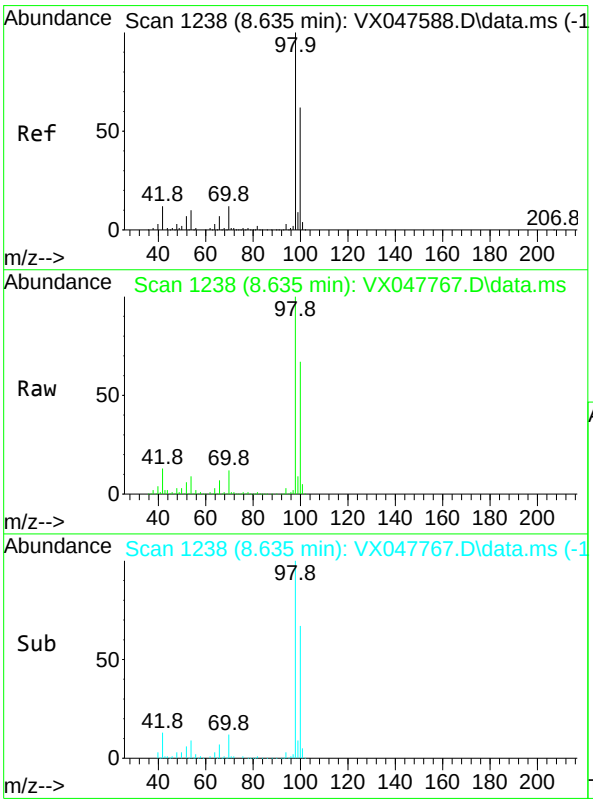
Ion	Ratio	Lower	Upper
88	100		
43	37.6	30.2	45.2
58	73.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

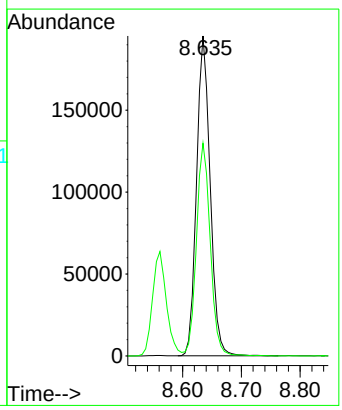
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

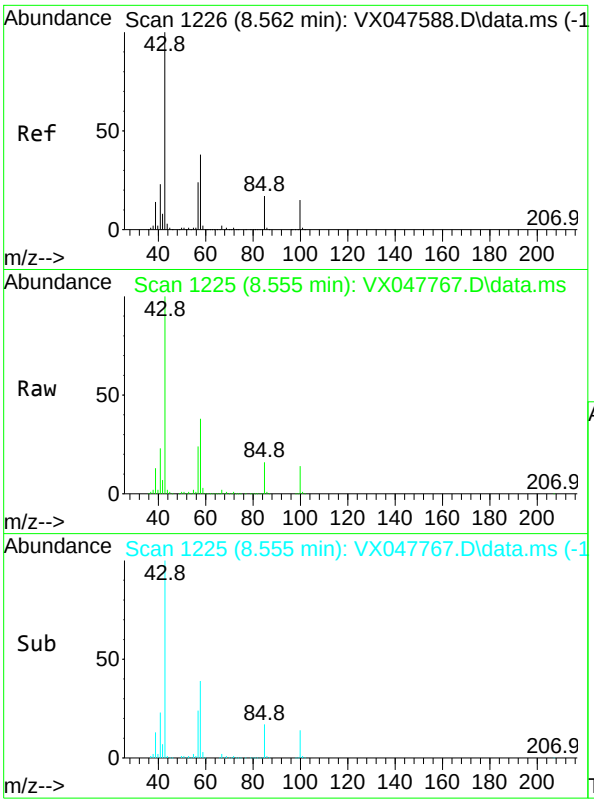


#50
Toluene-d8
Concen: 53.290 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 98 Resp: 314422

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

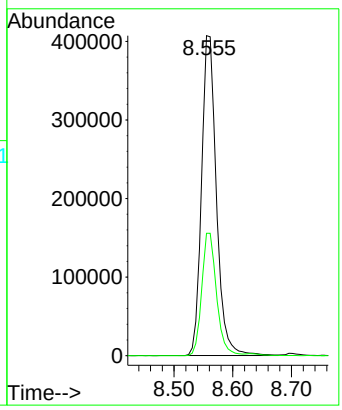




#51
4-Methyl-2-Pentanone
Concen: 296.207 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 71857

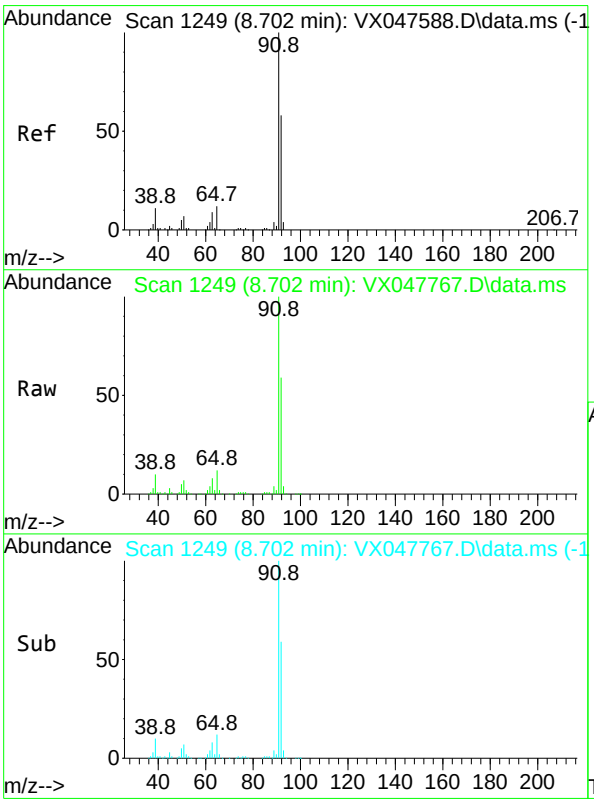
Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

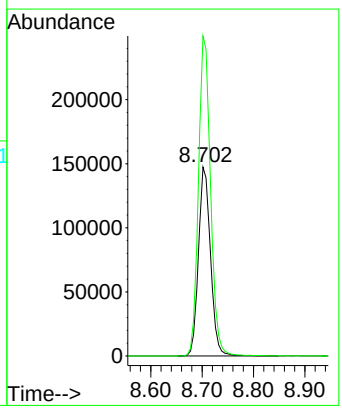
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

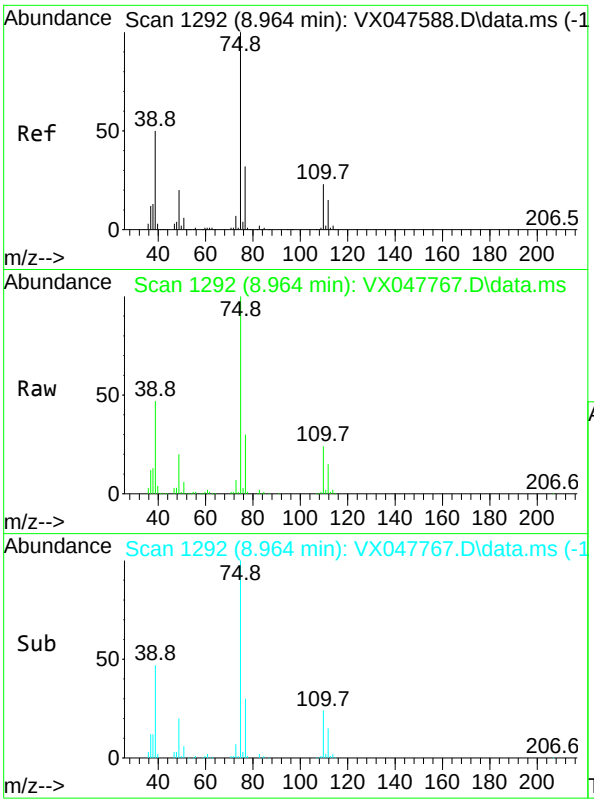


#52
Toluene
Concen: 51.397 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 92 Resp: 239637

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7

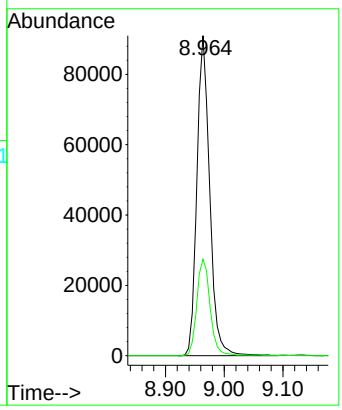




#53
t-1,3-Dichloropropene
Concen: 46.292 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 13740

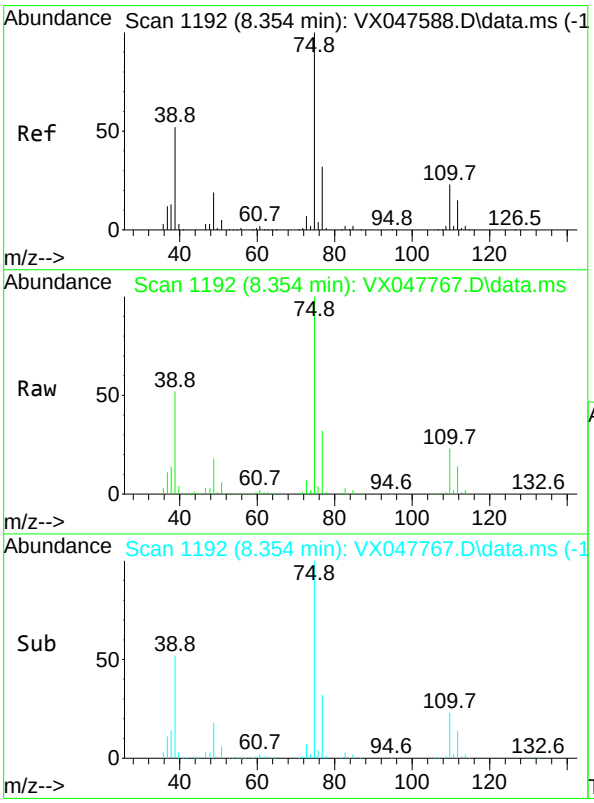
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

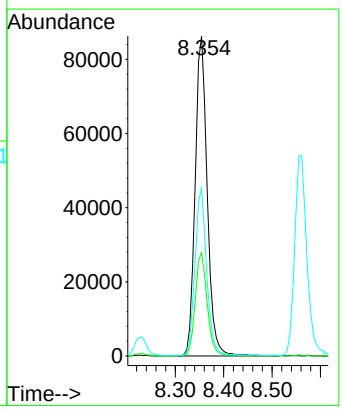
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

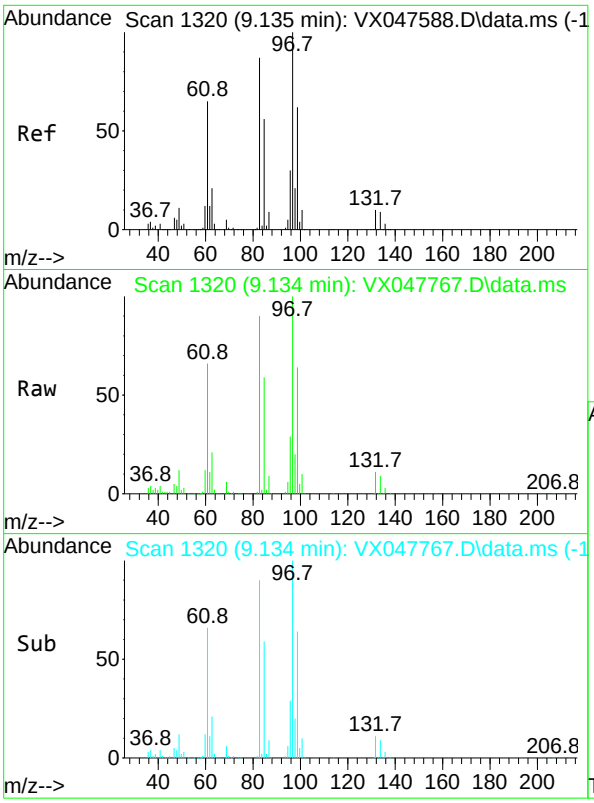


#54
cis-1,3-Dichloropropene
Concen: 47.013 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 149149

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	51.7	41.4	62.2

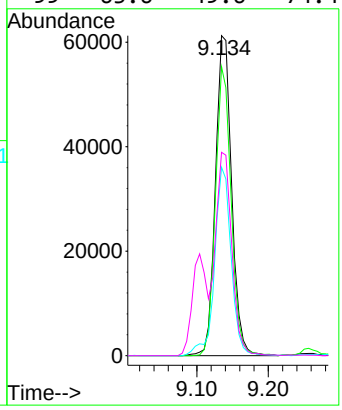




#55
1,1,2-Trichloroethane
Concen: 53.607 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 97 Resp: 9637

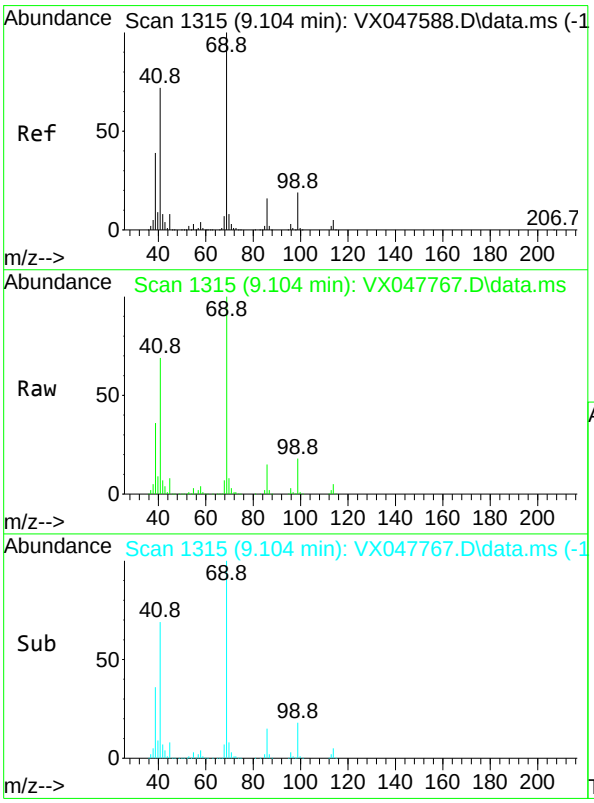
Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.6	104.4
85	58.8	45.0	67.6
99	63.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

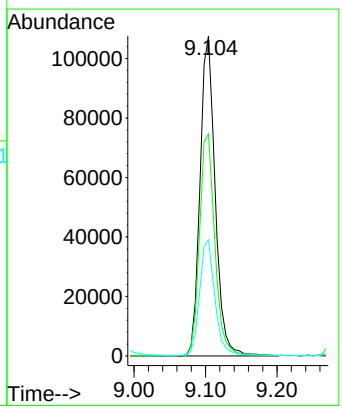
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

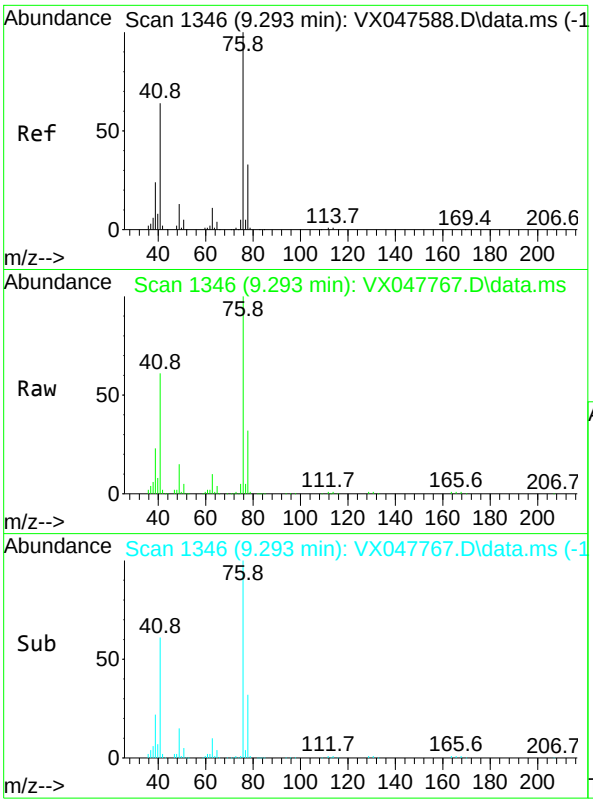


#56
Ethyl methacrylate
Concen: 56.087 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 69 Resp: 158357

Ion	Ratio	Lower	Upper
69	100		
41	70.4	58.6	87.8
39	37.1	31.5	47.3

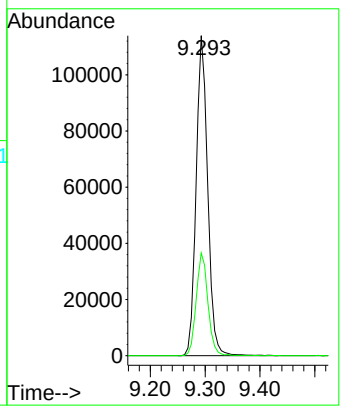




#57
1,3-Dichloropropane
Concen: 54.213 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 76 Resp: 16742

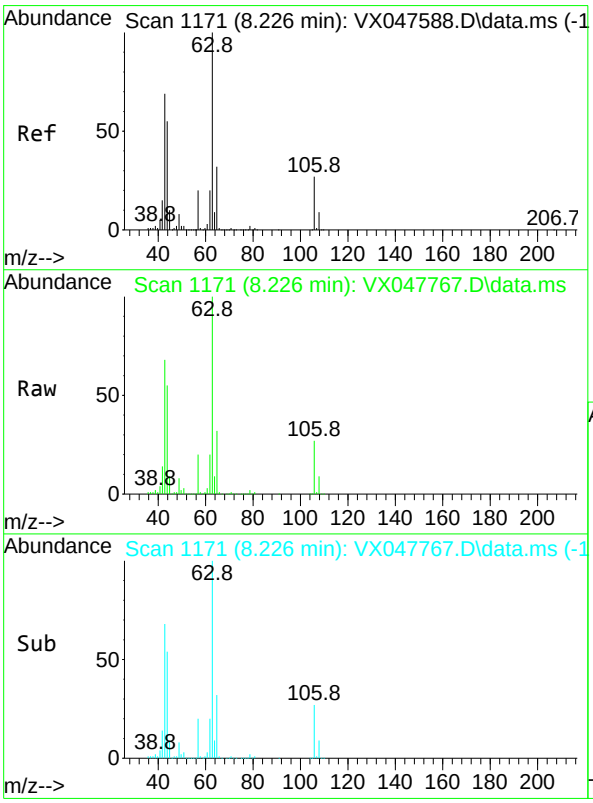
Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

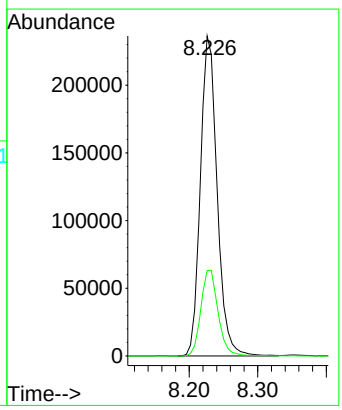
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

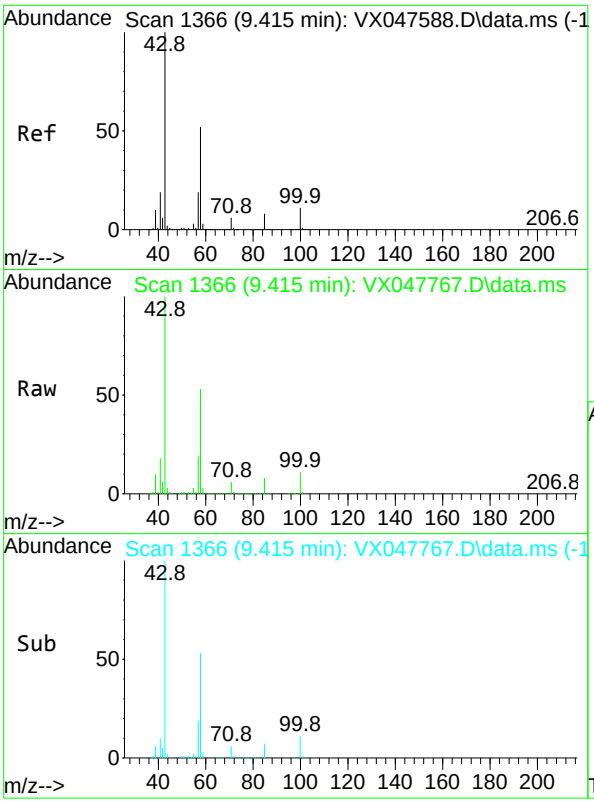


#58
2-Chloroethyl Vinyl ether
Concen: 294.817 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 402380

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9





#59
2-Hexanone
Concen: 288.900 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

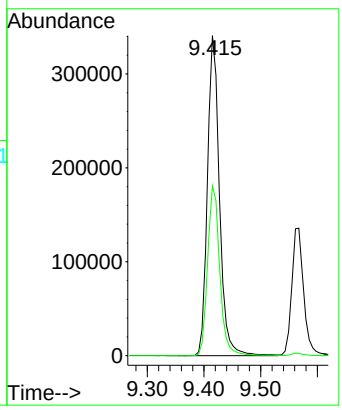
Tgt Ion: 43 Resp: 50335

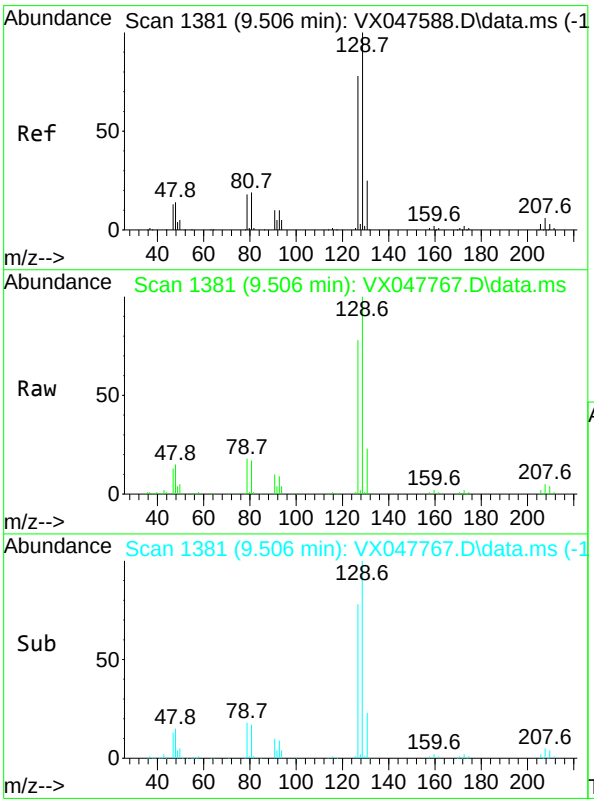
Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

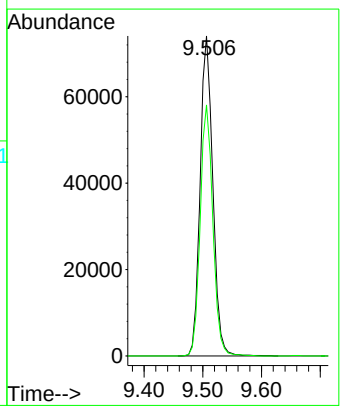


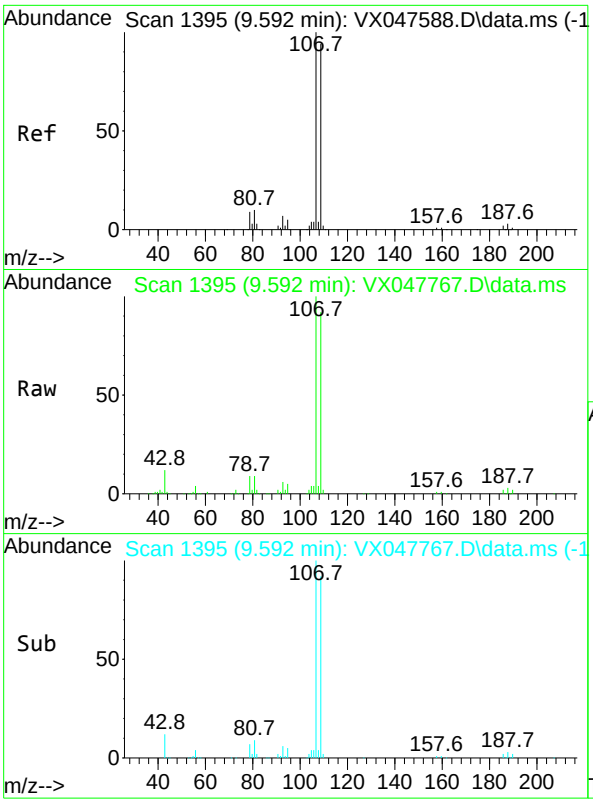


#60
Dibromochloromethane
Concen: 53.612 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:129 Resp: 111057

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.4	115.2

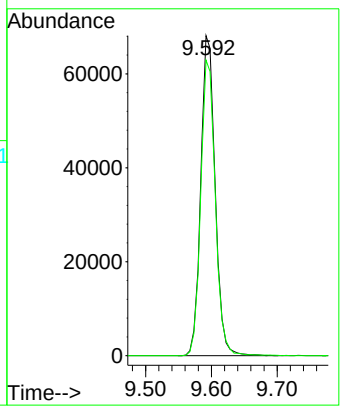




#61
1,2-Dibromoethane
Concen: 56.360 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:107 Resp: 10320

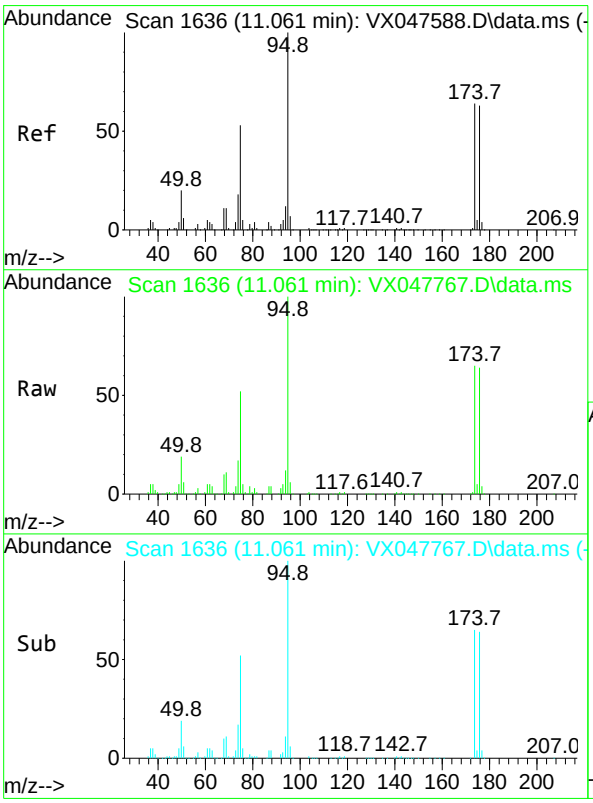
Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

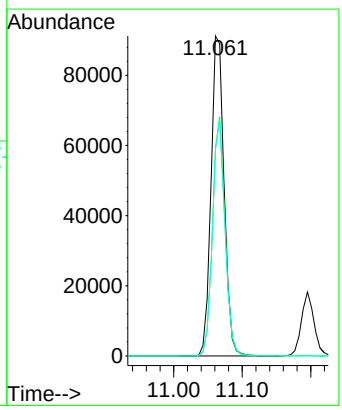
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

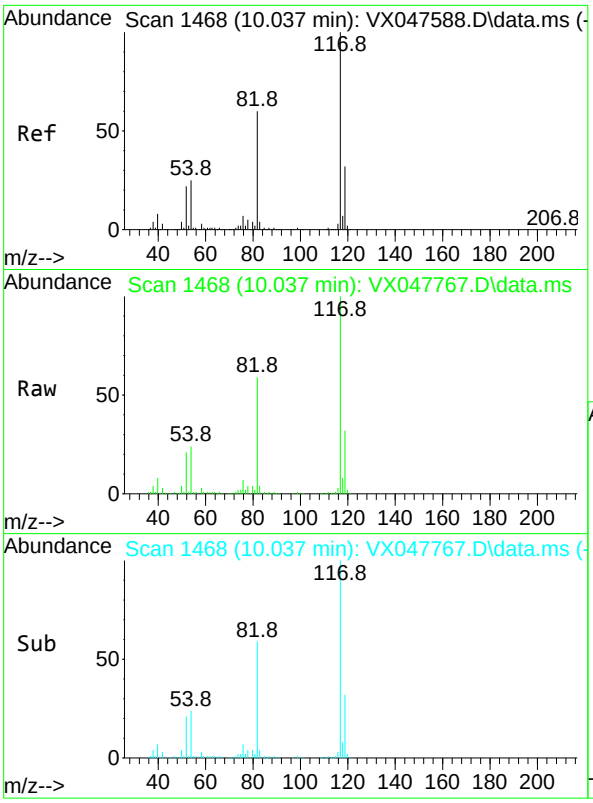


#62
4-Bromofluorobenzene
Concen: 53.949 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 95 Resp: 120804

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	70.6	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

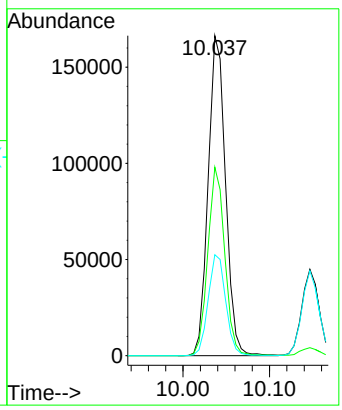
Tgt Ion:117 Resp: 23200

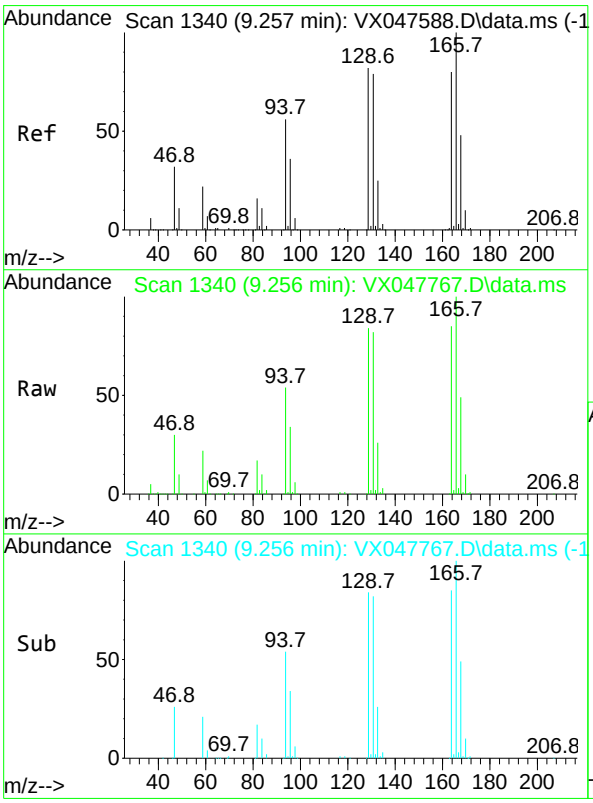
Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.8	71.6
119	31.5	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

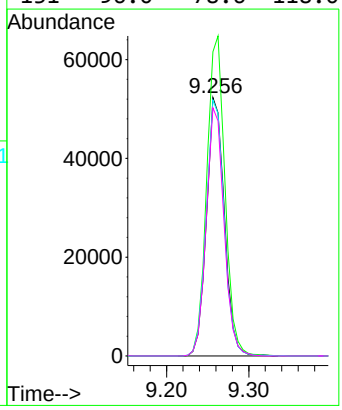


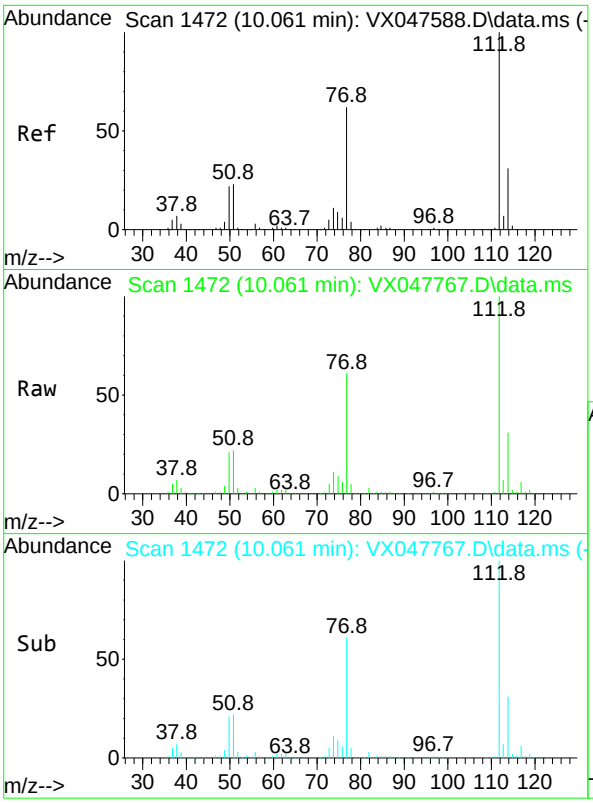


#64
Tetrachloroethene
Concen: 52.130 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:164 Resp: 78844

Ion	Ratio	Lower	Upper
164	100		
166	117.7	100.2	150.2
129	99.0	81.8	122.6
131	96.0	78.6	118.0

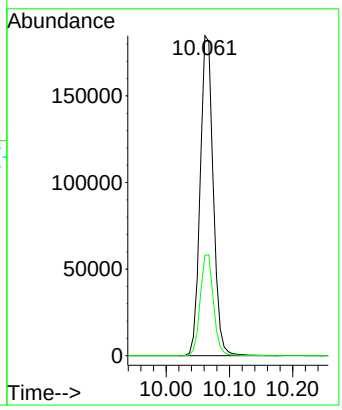




#65
Chlorobenzene
Concen: 50.402 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:112 Resp: 26565

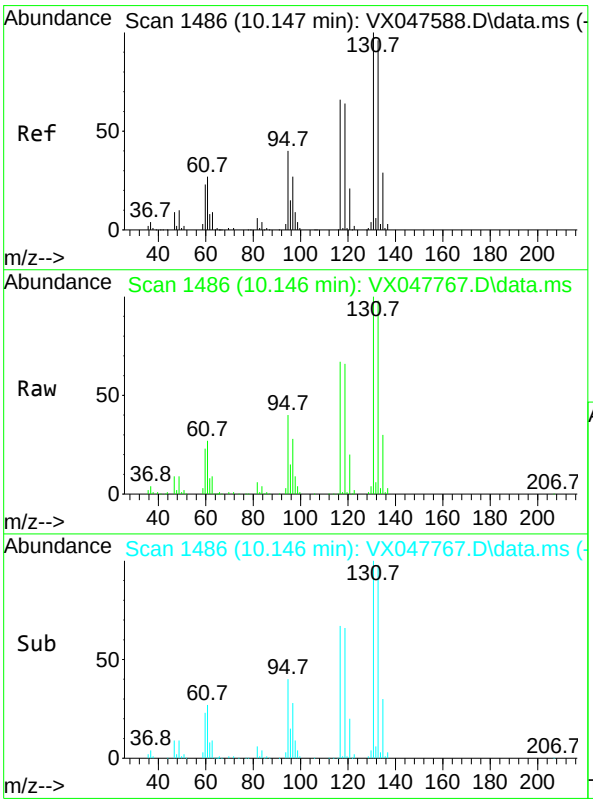
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

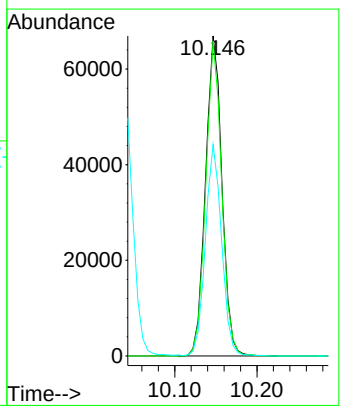
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

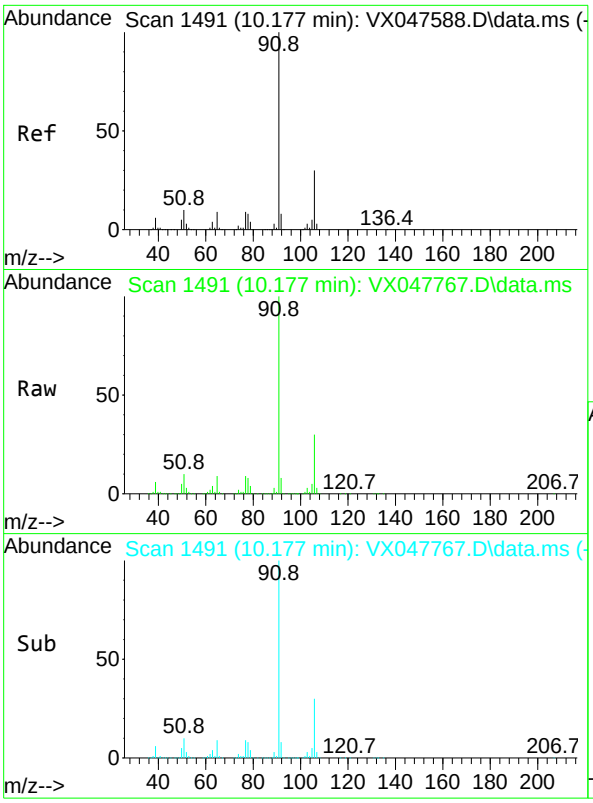


#66
1,1,1,2-Tetrachloroethane
Concen: 51.137 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:131 Resp: 93007

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	142.0
119	65.6	32.0	96.0

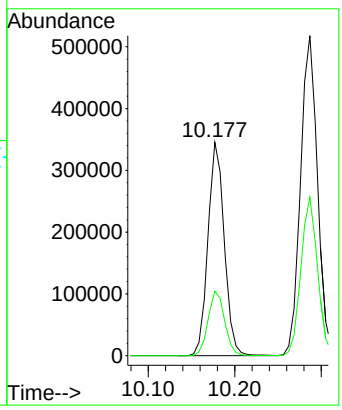




#67
Ethyl Benzene
Concen: 49.712 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 45209

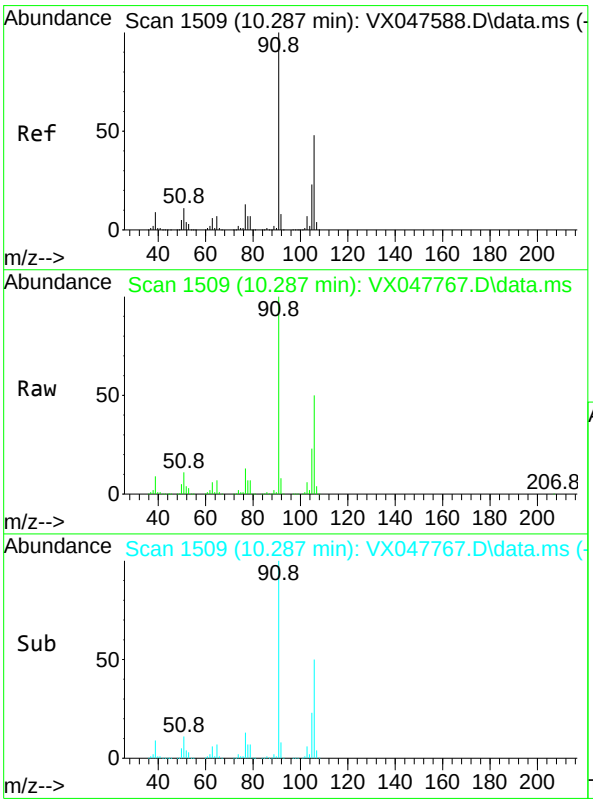
Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

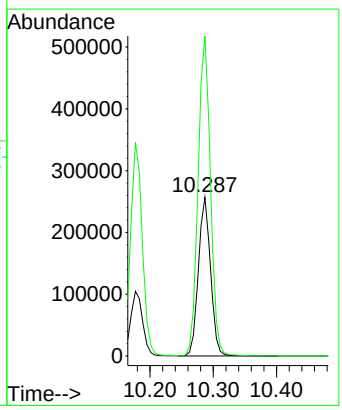
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

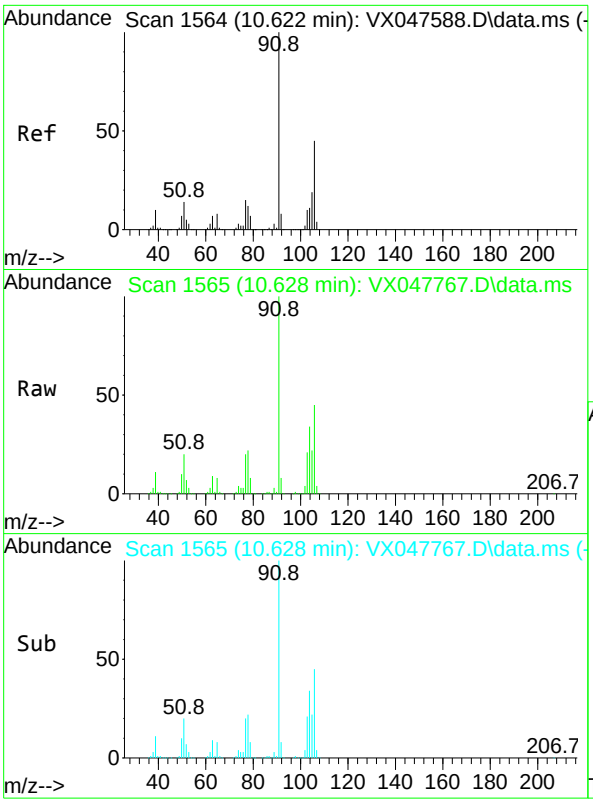


#68
m/p-Xylenes
Concen: 101.520 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:106 Resp: 343642

Ion	Ratio	Lower	Upper
106	100		
91	205.6	167.8	251.8

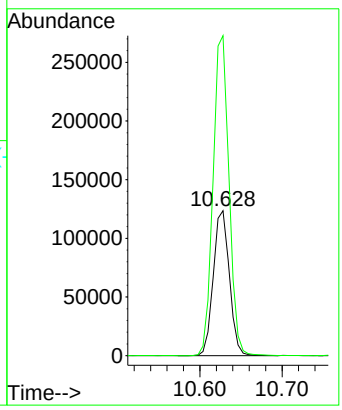




#69
o-Xylene
Concen: 51.290 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:106 Resp: 16792

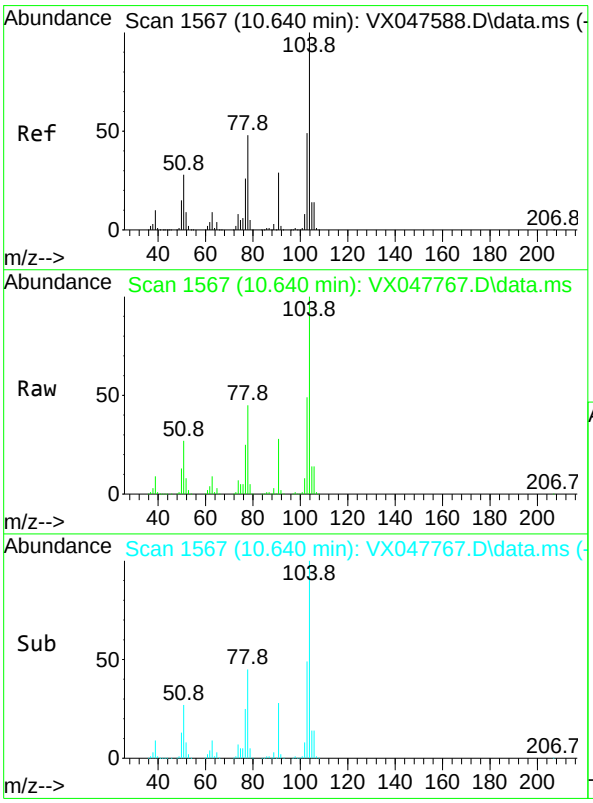
Ion	Ratio	Lower	Upper
106	100		
91	219.1	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

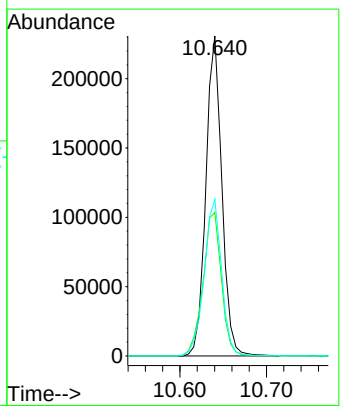
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

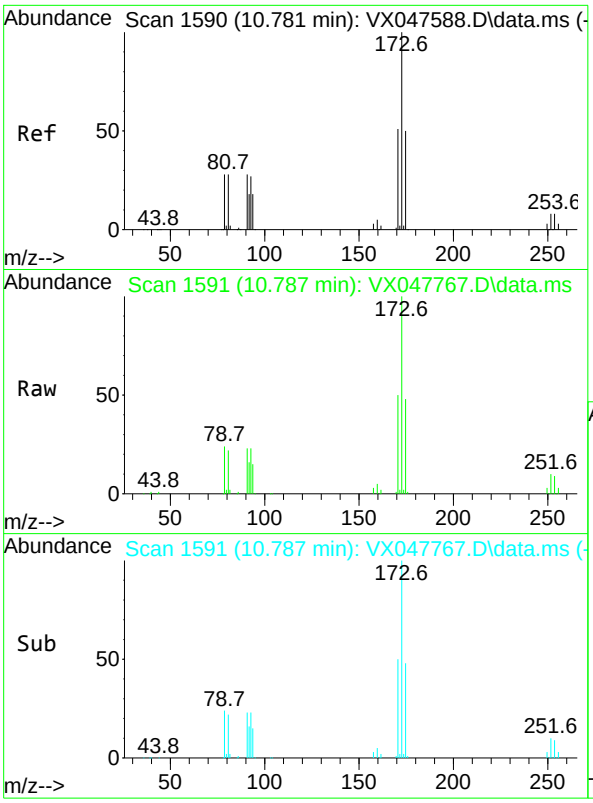


#70
Styrene
Concen: 51.662 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:104 Resp: 296373

Ion	Ratio	Lower	Upper
104	100		
78	51.6	43.1	64.7
103	53.6	43.1	64.7

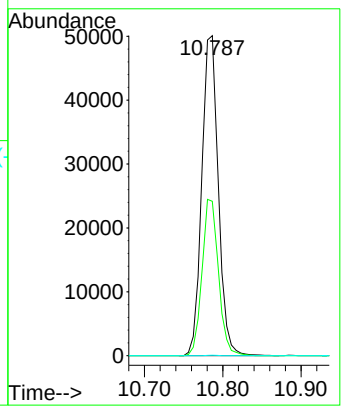




#71
Bromoform
Concen: 53.967 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:173 Resp: 7329

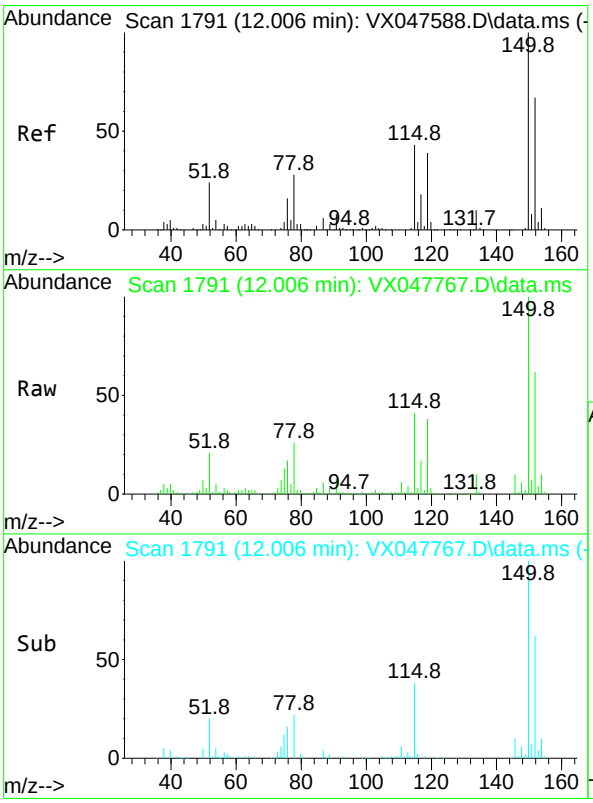
Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

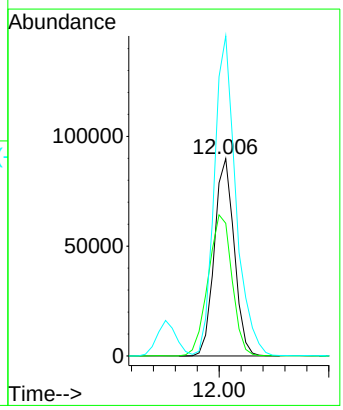
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

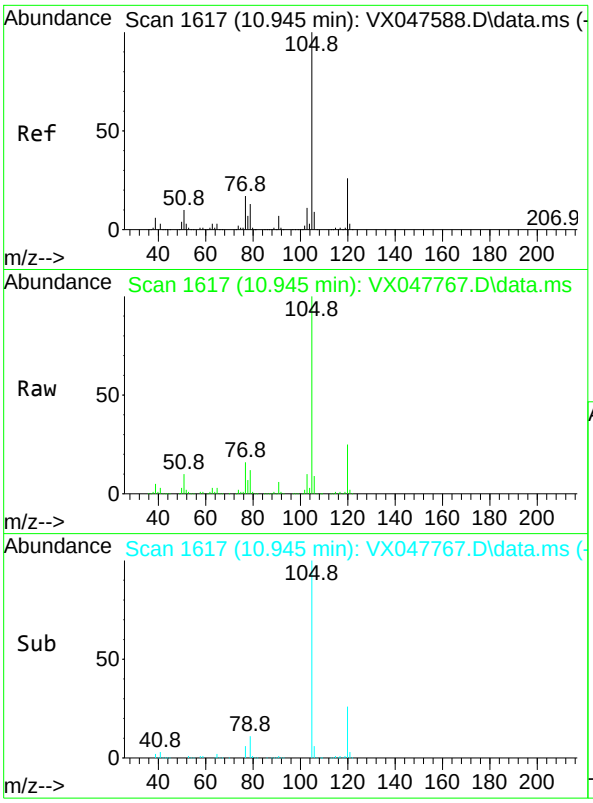


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:152 Resp: 113030

Ion	Ratio	Lower	Upper
152	100		
115	86.3	44.9	134.5
150	177.1	0.0	352.0

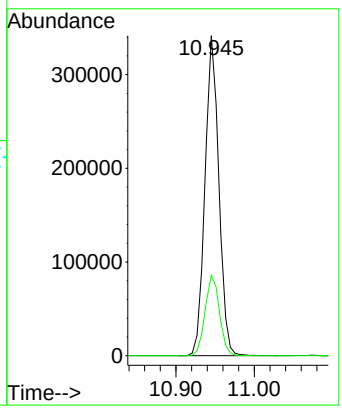




#73
Isopropylbenzene
Concen: 48.594 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 41758

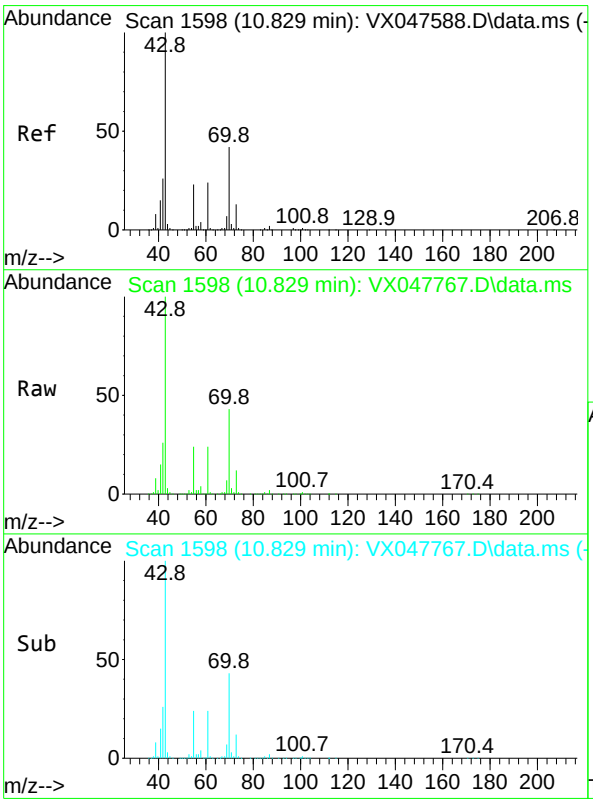
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

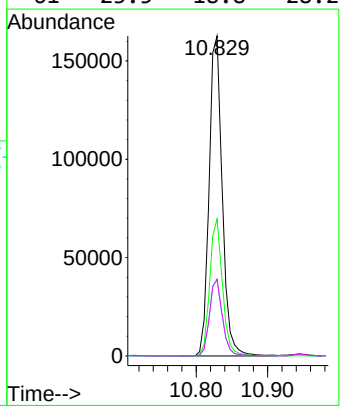
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

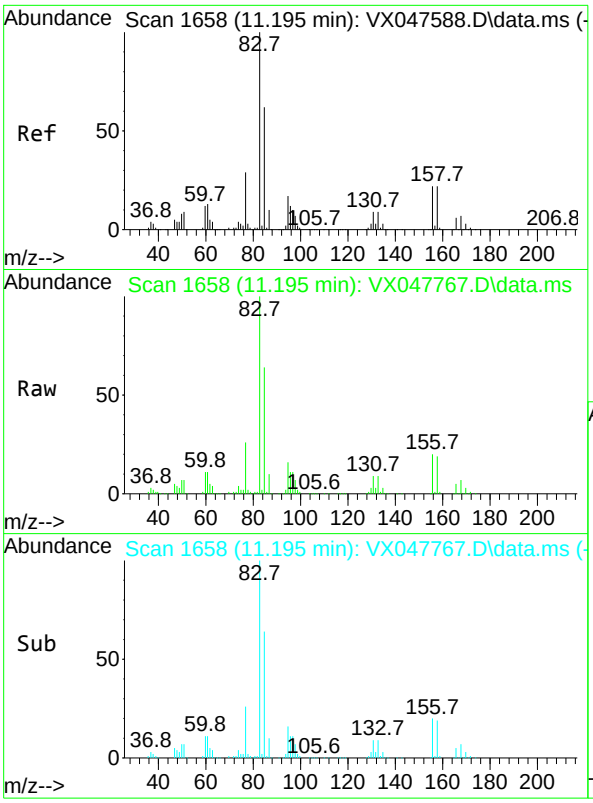


#74
N-amyl acetate
Concen: 53.032 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 207812

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	23.5	18.9	28.3
61	23.5	18.8	28.2

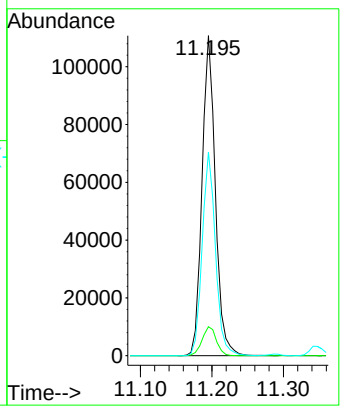




#75
1,1,2,2-Tetrachloroethane
Concen: 54.960 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 14288

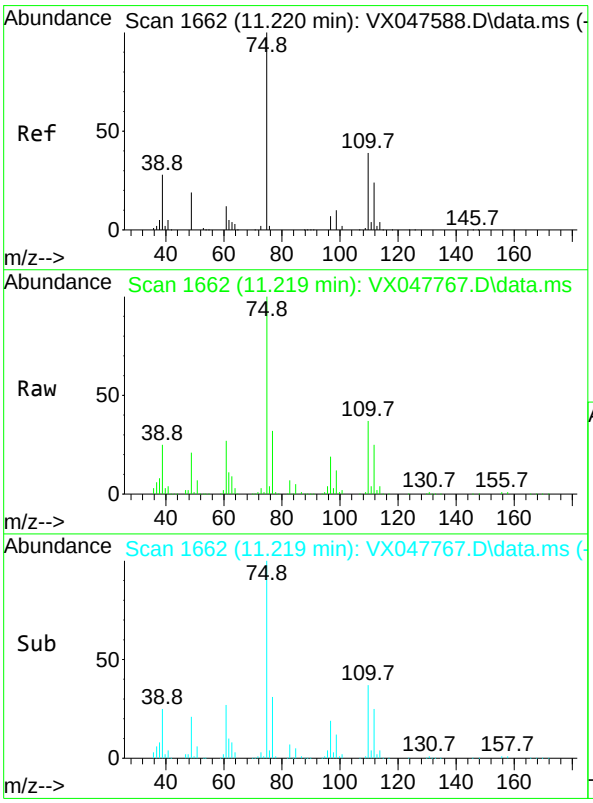
Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	63.7	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

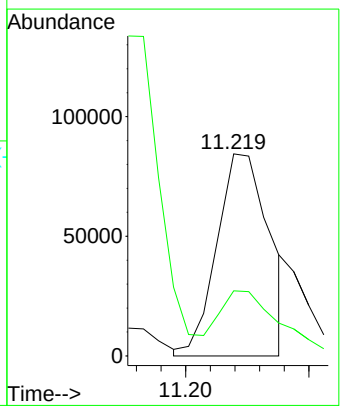
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

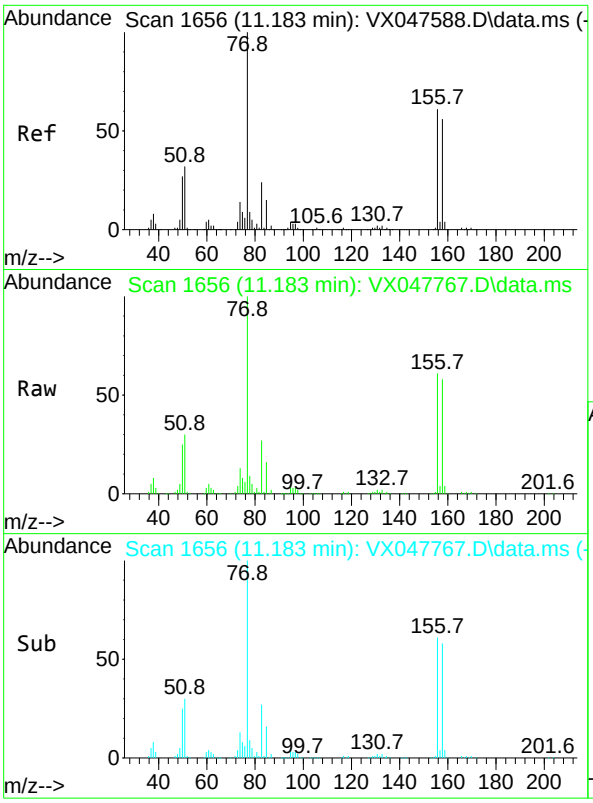


#76
1,2,3-Trichloropropane
Concen: 54.514 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 124755

Ion	Ratio	Lower	Upper
75	100		
77	37.1	18.8	56.4

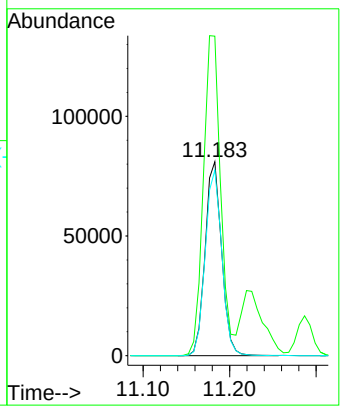




#77
Bromobenzene
Concen: 50.657 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:156 Resp: 10721

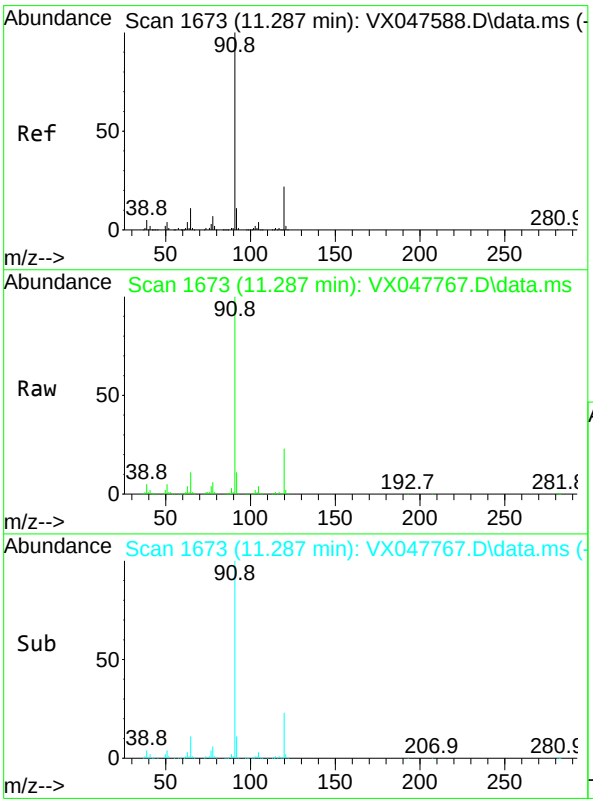
Ion	Ratio	Lower	Upper
156	100		
77	173.5	89.7	269.1
158	96.2	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

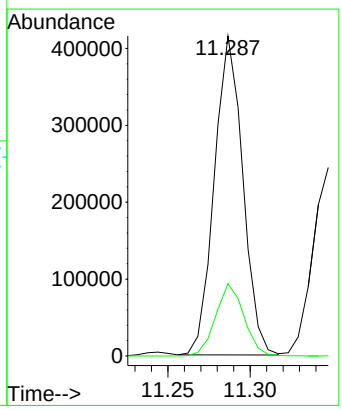
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

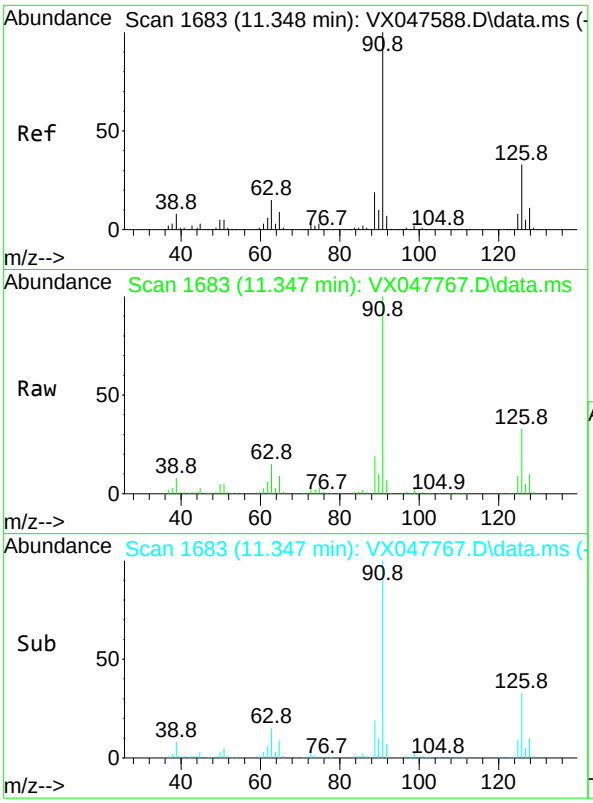


#78
n-propylbenzene
Concen: 49.095 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 498719

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1





#79
2-Chlorotoluene
Concen: 49.006 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

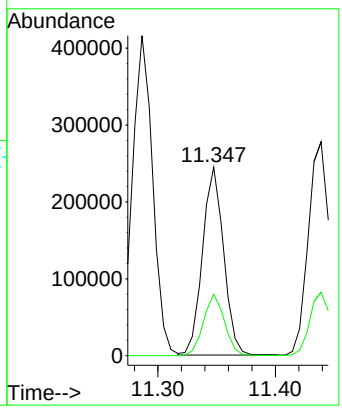
Tgt Ion: 91 Resp: 30490

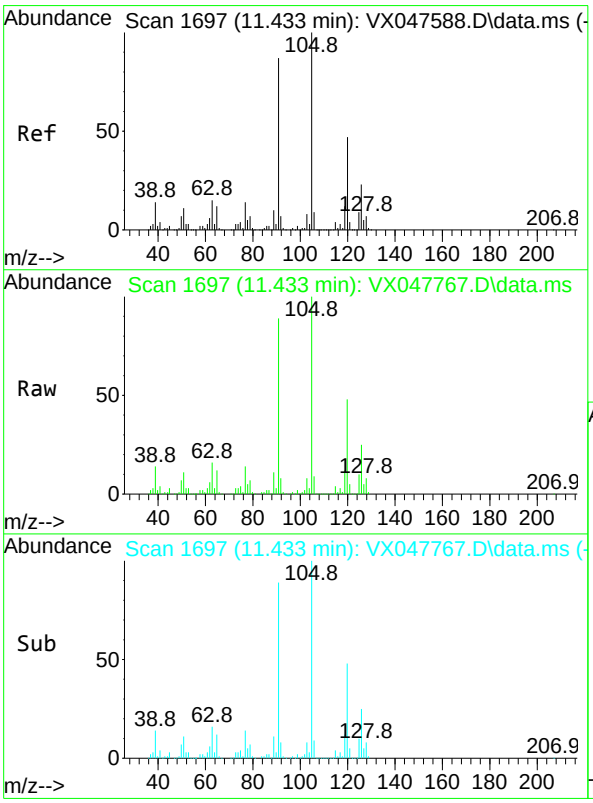
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

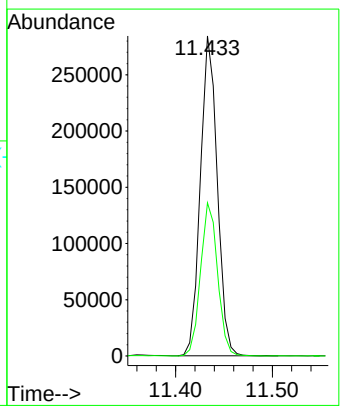


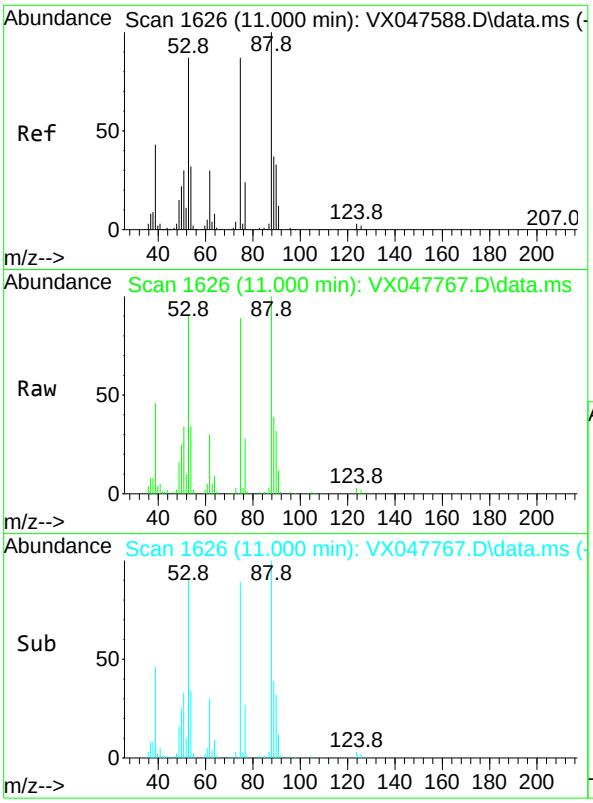


#80
1,3,5-Trimethylbenzene
Concen: 49.006 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 345988

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.6	70.8

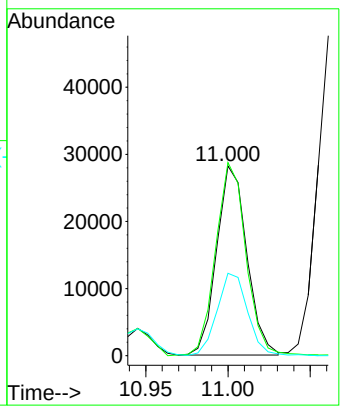




#81
trans-1,4-Dichloro-2-butene
Concen: 40.018 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 3591

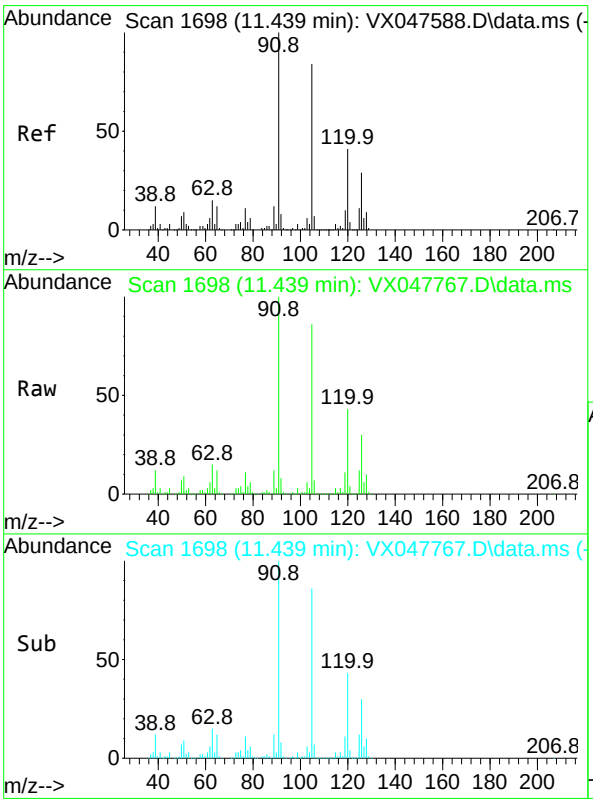
Ion	Ratio	Lower	Upper
75	100		
53	102.9	83.4	125.2
89	44.3	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

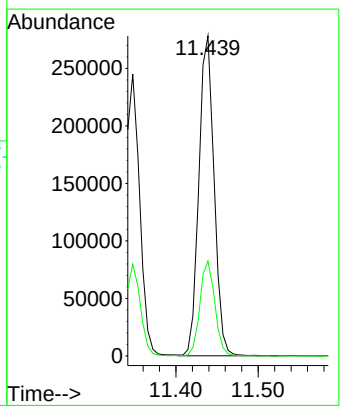
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

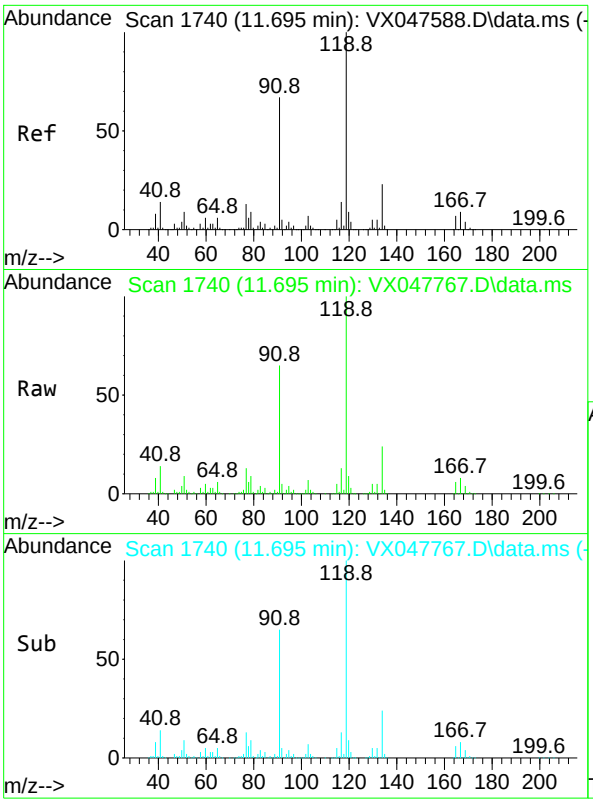


#82
4-Chlorotoluene
Concen: 48.683 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 357733

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6

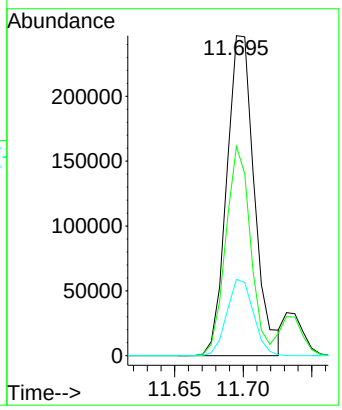




#83
tert-Butylbenzene
Concen: 47.879 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:119 Resp: 34603

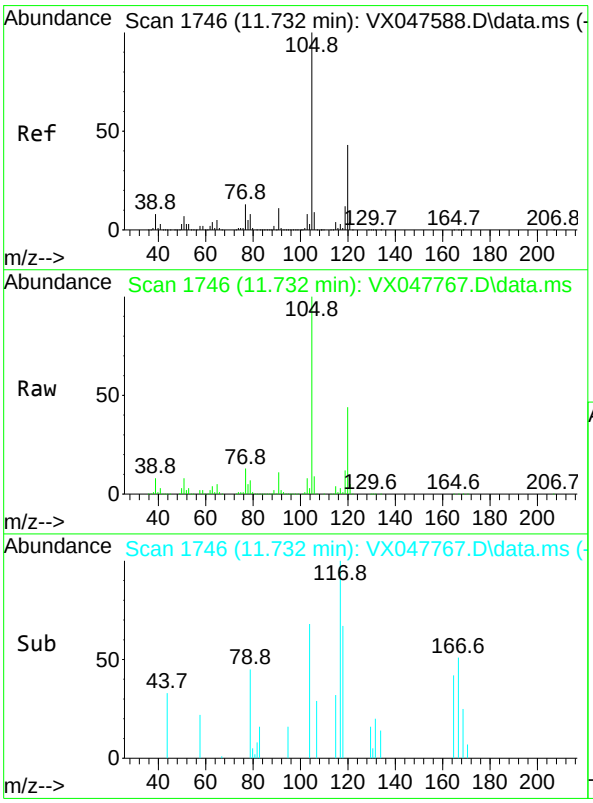
Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.6	88.8
134	22.9	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

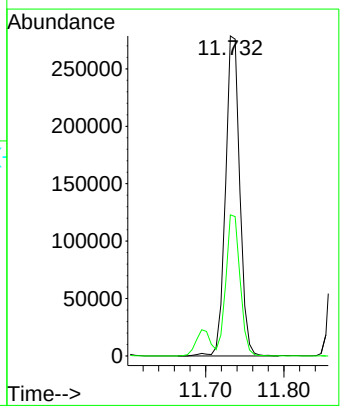
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

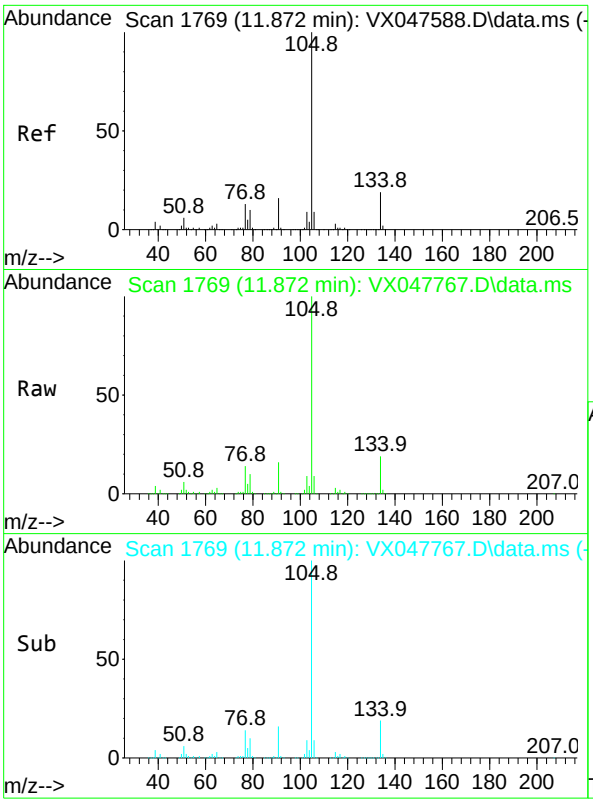


#84
1,2,4-Trimethylbenzene
Concen: 49.355 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 353276

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

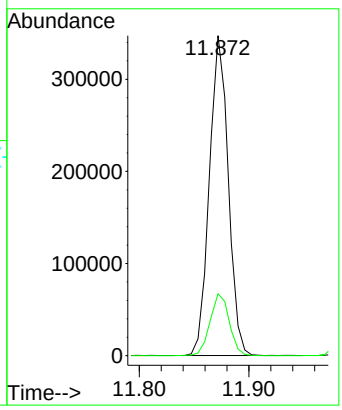




#85
sec-Butylbenzene
Concen: 48.459 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 41599

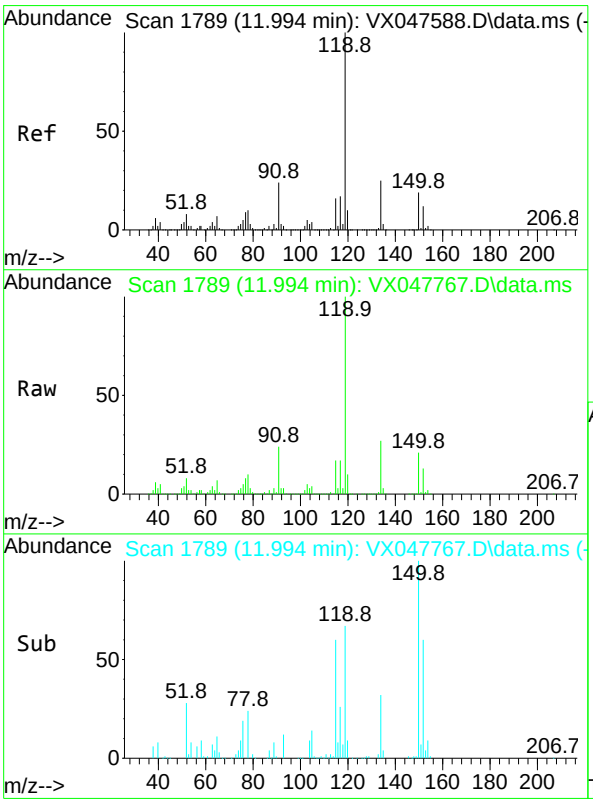
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

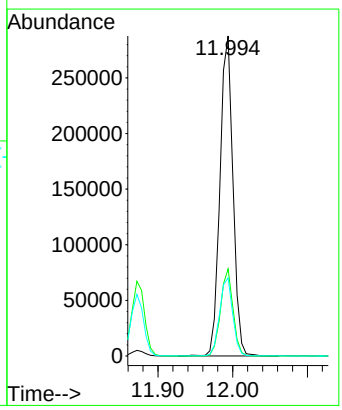
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

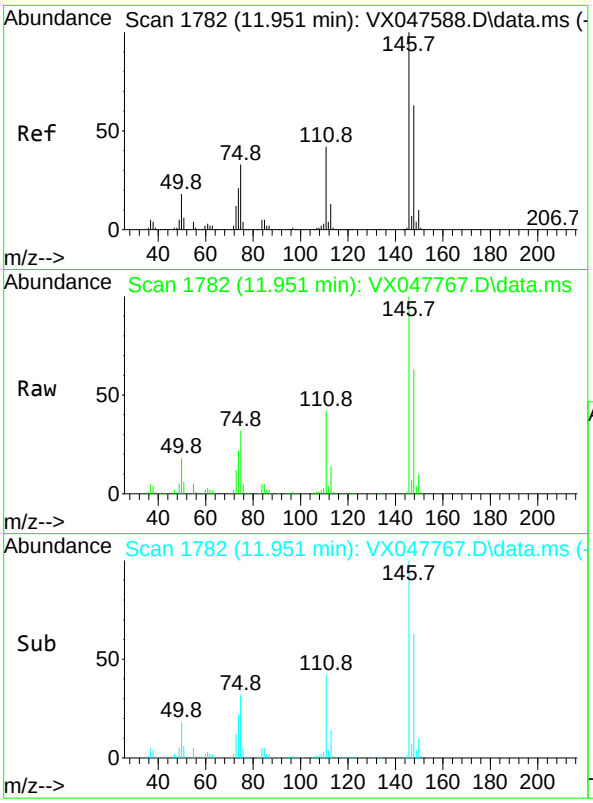


#86
p-Isopropyltoluene
Concen: 47.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:119 Resp: 348647

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	24.6	12.6	37.6

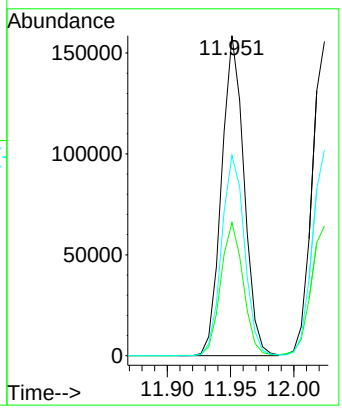




#87
1,3-Dichlorobenzene
Concen: 49.790 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 19573

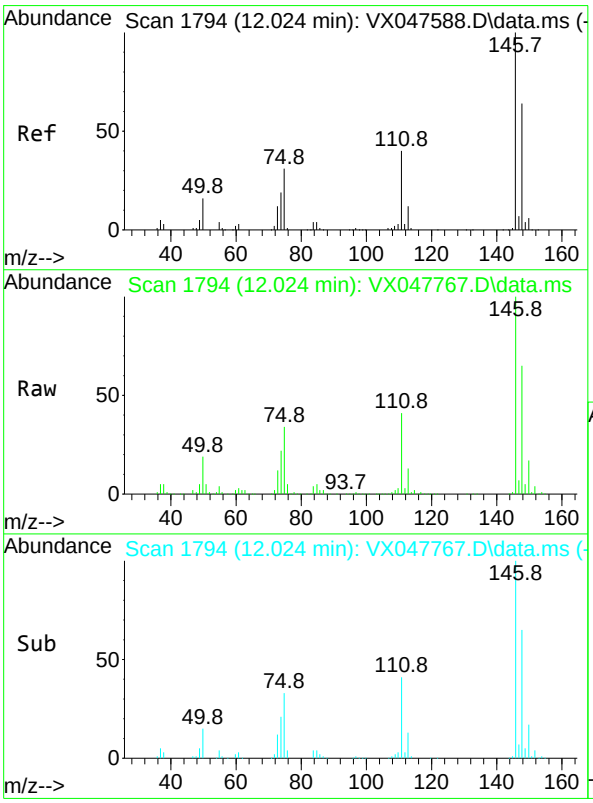
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.5	64.5
148	63.8	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

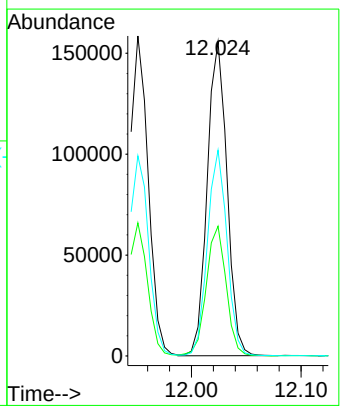
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

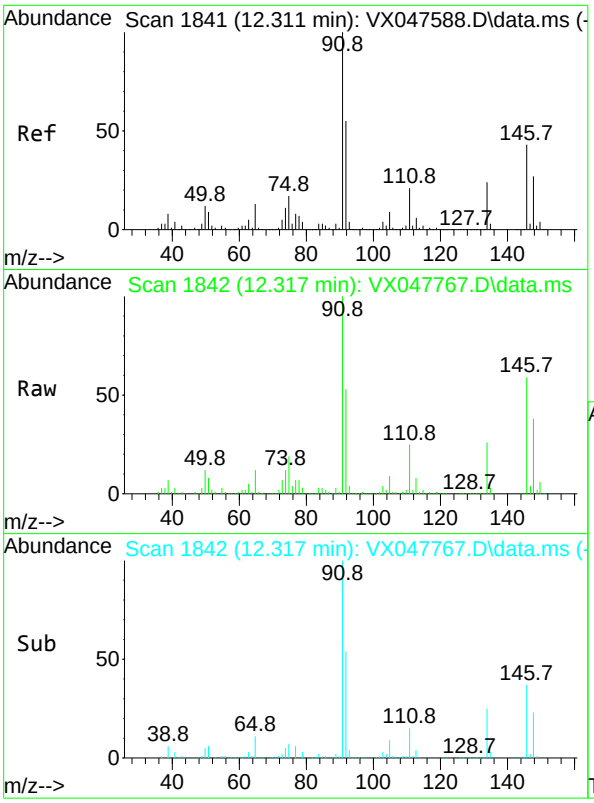


#88
1,4-Dichlorobenzene
Concen: 48.435 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 195422

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	64.8	31.7	95.1

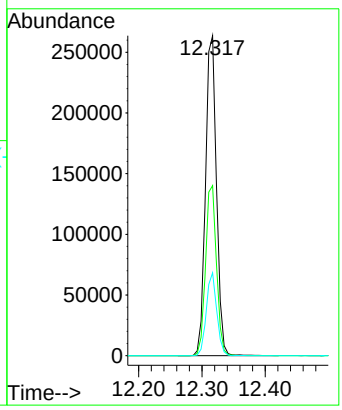




#89
n-Butylbenzene
Concen: 47.254 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 31777

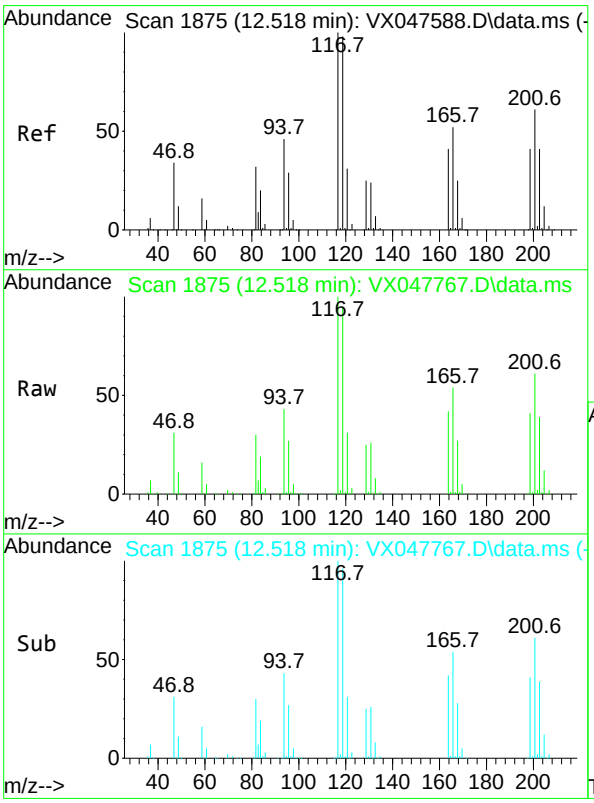
Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

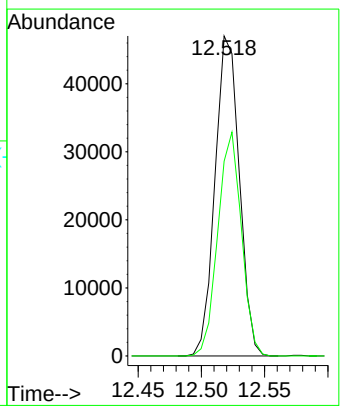
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

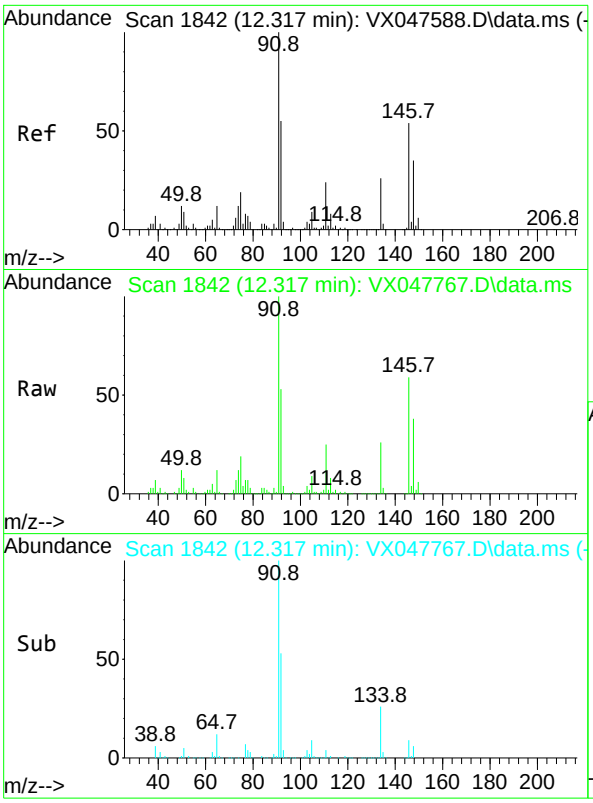


#90
Hexachloroethane
Concen: 49.203 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 62783

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5

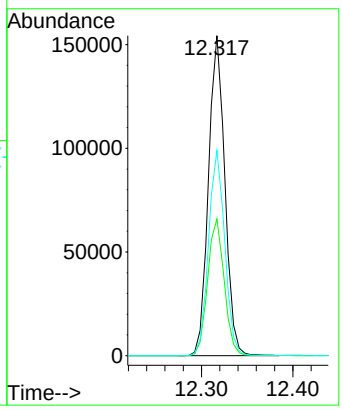




#91
1,2-Dichlorobenzene
Concen: 51.187 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 19170

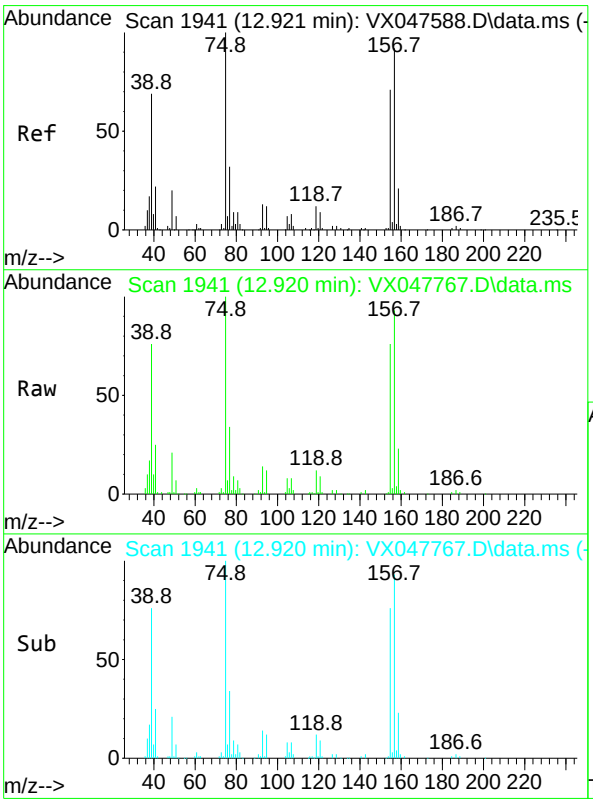
Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.2	66.6
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

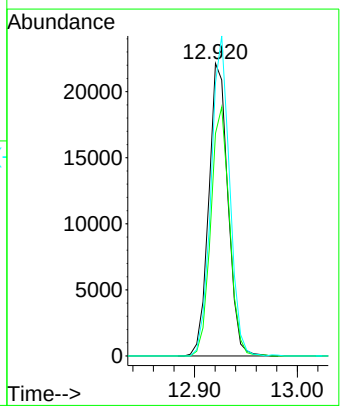
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

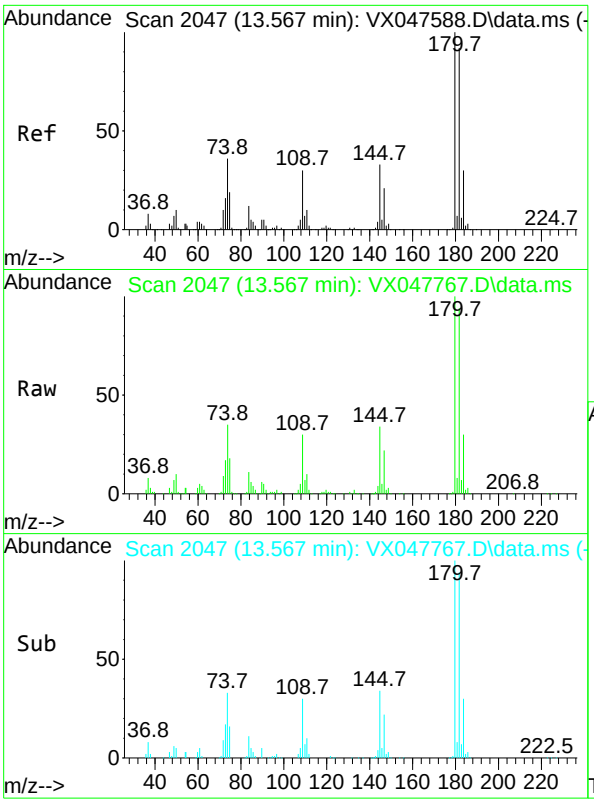


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.516 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 28696

Ion	Ratio	Lower	Upper
75	100		
155	82.5	37.7	113.1
157	105.1	49.8	149.4

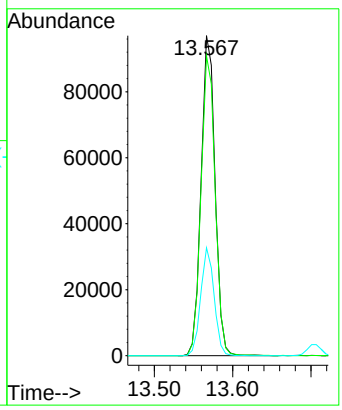




#93
1,2,4-Trichlorobenzene
Concen: 49.199 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:180 Resp: 11975

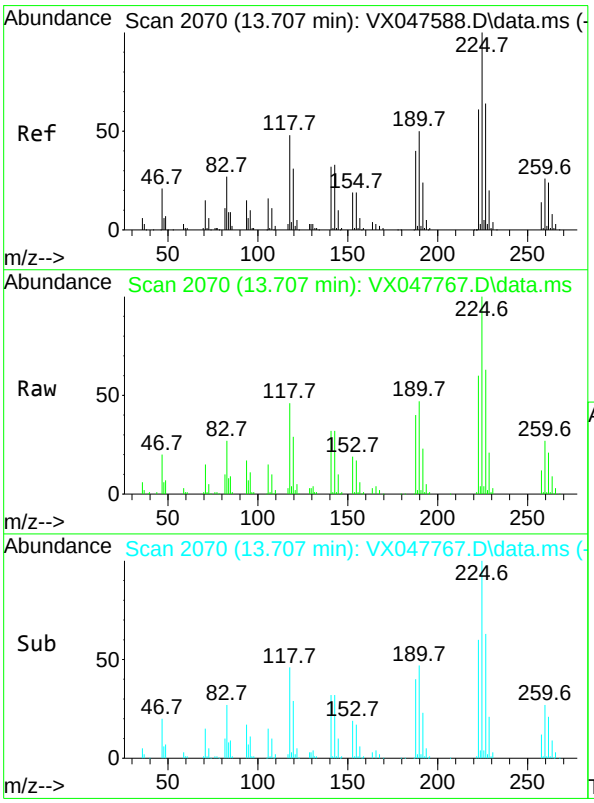
Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.6	139.8
145	32.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

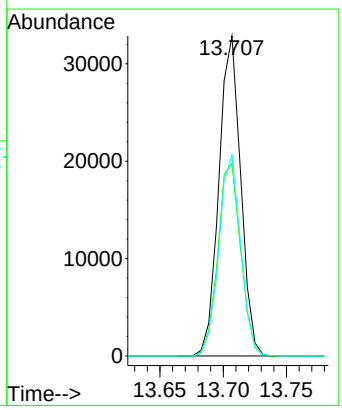
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

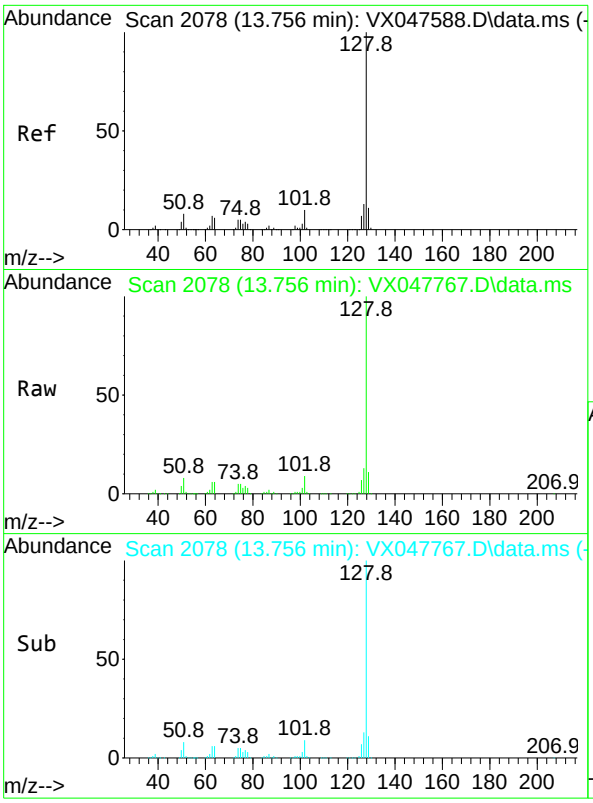


#94
Hexachlorobutadiene
Concen: 47.499 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:225 Resp: 39271

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.7	95.1
227	62.9	32.0	96.0





#95
Naphthalene
Concen: 54.002 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

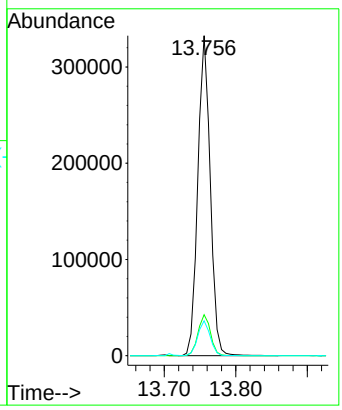
Tgt Ion:128 Resp: 40025

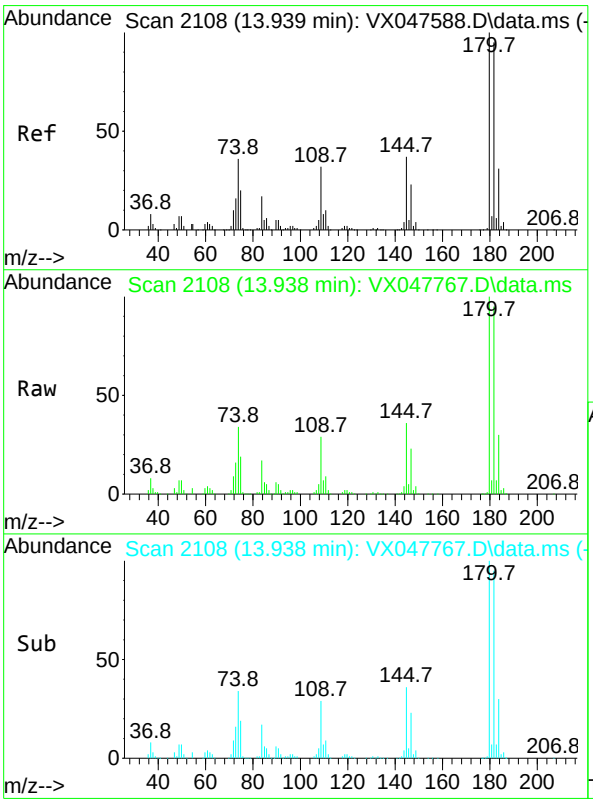
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

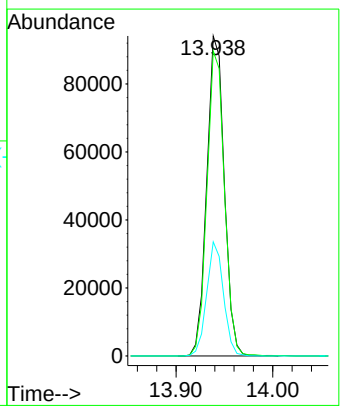




#96
1,2,3-Trichlorobenzene
Concen: 52.369 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:180 Resp: 118573

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.6	142.8
145	34.2	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	79	0.00
2	T	Dichlorodifluoromethane	0.518	0.593	-14.5	93	0.00
3	P	Chloromethane	0.680	0.735	-8.1	87	0.00
4	C	Vinyl Chloride	0.666	0.726	-9.0#	86	0.00
5	T	Bromomethane	0.422	0.463	-9.7	86	0.00
6	T	Chloroethane	0.445	0.466	-4.7	83	0.00
7	T	Trichlorofluoromethane	0.989	1.013	-2.4	80	0.00
8	T	Diethyl Ether	0.405	0.439	-8.4	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.586	-1.4	79	0.00
10	T	Methyl Iodide	0.902	0.916	-1.6	79	0.00
11	T	Tert butyl alcohol	0.089	0.097	-9.0	85	0.00
12	CM	1,1-Dichloroethene	0.594	0.631	-6.2#	82	0.00
13	T	Acrolein	0.082	0.091	-11.0	88	0.00
14	T	Allyl chloride	1.226	1.177	4.0	76	0.00
15	T	Acrylonitrile	0.328	0.403	-22.9	91	0.00
16	T	Acetone	0.346	0.323	6.6	80	0.00
17	T	Carbon Disulfide	1.626	1.720	-5.8	86	0.00
18	T	Methyl Acetate	0.770	0.940	-22.1	84	0.00
19	T	Methyl tert-butyl Ether	2.169	2.352	-8.4	82	0.00
20	T	Methylene Chloride	0.732	0.779	-6.4	84	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.685	-7.0	83	0.00
22	T	Diisopropyl ether	2.376	2.573	-8.3	82	0.00
23	T	Vinyl Acetate	1.901	2.117	-11.4	84	0.00
24	P	1,1-Dichloroethane	1.263	1.341	-6.2	81	0.00
25	T	2-Butanone	0.432	0.500	-15.7	89	0.00
26	T	2,2-Dichloropropane	1.050	0.514	51.0#	38#	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.835	-6.6	81	0.00
28	T	Bromochloromethane	0.551	0.591	-7.3	81	0.00
29	T	Tetrahydrofuran	0.260	0.324	-24.6	92	0.00
30	C	Chloroform	1.276	1.376	-7.8#	82	0.00
31	T	Cyclohexane	1.052	1.066	-1.3	81	0.00
32	T	1,1,1-Trichloroethane	1.082	1.134	-4.8	79	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.866	-8.8	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	83	0.00
35	S	Dibromofluoromethane	0.335	0.362	-8.1	91	0.00
36	T	1,1-Dichloropropene	0.490	0.475	3.1	81	0.00
37	T	Ethyl Acetate	0.525	0.586	-11.6	91	0.00
38	T	Carbon Tetrachloride	0.532	0.515	3.2	79	0.00
39	T	Methylcyclohexane	0.556	0.525	5.6	77	0.00
40	TM	Benzene	1.488	1.534	-3.1	83	0.00
41	T	Methacrylonitrile	0.271	0.307	-13.3	89	0.00
42	TM	1,2-Dichloroethane	0.566	0.562	0.7	80	0.00
43	T	Isopropyl Acetate	0.860	0.928	-7.9	86	0.00
44	TM	Trichloroethene	0.360	0.371	-3.1	83	0.00
45	C	1,2-Dichloropropane	0.381	0.401	-5.2#	84	0.00
46	T	Dibromomethane	0.277	0.293	-5.8	84	0.00
47	T	Bromodichloromethane	0.572	0.591	-3.3	81	0.00
48	T	Methyl methacrylate	0.429	0.466	-8.6	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	0.004	0.006	-50.0#	103	0.00
50	S	Toluene-d8	1.160	1.237	-6.6	89	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.565	-18.4	92	0.00
52	CM	Toluene	0.917	0.943	-2.8#	83	0.00
53	T	t-1,3-Dichloropropene	0.584	0.540	7.5	72	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.587	5.9	74	0.00
55	T	1,1,2-Trichloroethane	0.354	0.379	-7.1	85	0.00
56	T	Ethyl methacrylate	0.555	0.623	-12.3	86	0.00
57	T	1,3-Dichloropropane	0.607	0.659	-8.6	85	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.317	-39.6#	96	0.00
59	T	2-Hexanone	0.343	0.396	-15.5	91	0.00
60	T	Dibromochloromethane	0.407	0.437	-7.4	83	0.00
61	T	1,2-Dibromoethane	0.360	0.406	-12.8	89	0.00
62	S	4-Bromofluorobenzene	0.440	0.475	-8.0	92	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.326	0.340	-4.3	89	0.00
65	PM	Chlorobenzene	1.136	1.145	-0.8	84	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.401	-2.3	83	0.00
67	C	Ethyl Benzene	1.960	1.949	0.6#	82	0.00
68	T	m/p-Xylenes	0.729	0.741	-1.6	83	0.00
69	T	o-Xylene	0.706	0.724	-2.5	83	0.00
70	T	Styrene	1.236	1.277	-3.3	85	0.00
71	P	Bromoform	0.293	0.316	-7.8	87	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73	T	Isopropylbenzene	3.801	3.694	2.8	81	0.00
74	T	N-amyl acetate	1.733	1.839	-6.1	87	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.264	-9.9	91	0.00
76	T	1,2,3-Trichloropropane	1.012	1.104	-9.1	87	0.00
77	T	Bromobenzene	0.936	0.949	-1.4	85	0.00
78	T	n-propylbenzene	4.494	4.412	1.8	81	0.00
79	T	2-Chlorotoluene	2.752	2.698	2.0	82	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.061	2.0	81	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.318	19.9	68	0.00
82	T	4-Chlorotoluene	3.251	3.165	2.6	82	0.00
83	T	tert-Butylbenzene	3.197	3.061	4.3	81	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.126	1.3	83	0.00
85	T	sec-Butylbenzene	3.797	3.680	3.1	81	0.00
86	T	p-Isopropyltoluene	3.215	3.085	4.0	80	0.00
87	T	1,3-Dichlorobenzene	1.739	1.732	0.4	84	0.00
88	T	1,4-Dichlorobenzene	1.785	1.729	3.1	84	0.00
89	T	n-Butylbenzene	2.975	2.811	5.5	79	0.00
90	T	Hexachloroethane	0.564	0.555	1.6	83	0.00
91	T	1,2-Dichlorobenzene	1.657	1.696	-2.4	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.254	-9.0	88	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.059	1.7	81	0.00
94	T	Hexachlorobutadiene	0.366	0.347	5.2	80	0.00
95	T	Naphthalene	3.279	3.541	-8.0	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	1.049	-4.7	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	79	0.00
2	T	Dichlorodifluoromethane	50.000	57.267	-14.5	93	0.00
3	P	Chloromethane	50.000	53.970	-7.9	87	0.00
4	C	Vinyl Chloride	50.000	54.491	-9.0#	86	0.00
5	T	Bromomethane	50.000	54.792	-9.6	86	0.00
6	T	Chloroethane	50.000	52.368	-4.7	83	0.00
7	T	Trichlorofluoromethane	50.000	51.208	-2.4	80	0.00
8	T	Diethyl Ether	50.000	54.277	-8.6	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.667	-1.3	79	0.00
10	T	Methyl Iodide	50.000	50.757	-1.5	79	0.00
11	T	Tert butyl alcohol	250.000	273.139	-9.3	85	0.00
12	CM	1,1-Dichloroethene	50.000	53.075	-6.2#	82	0.00
13	T	Acrolein	250.000	278.592	-11.4	88	0.00
14	T	Allyl chloride	50.000	47.997	4.0	76	0.00
15	T	Acrylonitrile	250.000	306.873	-22.7	91	0.00
16	T	Acetone	250.000	233.292	6.7	80	0.00
17	T	Carbon Disulfide	50.000	52.888	-5.8	86	0.00
18	T	Methyl Acetate	50.000	61.011	-22.0	84	0.00
19	T	Methyl tert-butyl Ether	50.000	54.228	-8.5	82	0.00
20	T	Methylene Chloride	50.000	53.176	-6.4	84	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.545	-7.1	83	0.00
22	T	Diisopropyl ether	50.000	54.161	-8.3	82	0.00
23	T	Vinyl Acetate	250.000	278.405	-11.4	84	0.00
24	P	1,1-Dichloroethane	50.000	53.106	-6.2	81	0.00
25	T	2-Butanone	250.000	289.378	-15.8	89	0.00
26	T	2,2-Dichloropropane	50.000	24.508	51.0#	38	0.00
27	T	cis-1,2-Dichloroethene	50.000	53.299	-6.6	81	0.00
28	T	Bromochloromethane	50.000	53.622	-7.2	81	0.00
29	T	Tetrahydrofuran	250.000	311.862	-24.7	92	0.00
30	C	Chloroform	50.000	53.913	-7.8#	82	0.00
31	T	Cyclohexane	50.000	50.693	-1.4	81	0.00
32	T	1,1,1-Trichloroethane	50.000	52.395	-4.8	79	0.00
33	S	1,2-Dichloroethane-d4	50.000	54.388	-8.8	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	83	0.00
35	S	Dibromofluoromethane	50.000	53.983	-8.0	91	0.00
36	T	1,1-Dichloropropene	50.000	48.437	3.1	81	0.00
37	T	Ethyl Acetate	50.000	55.869	-11.7	91	0.00
38	T	Carbon Tetrachloride	50.000	48.322	3.4	79	0.00
39	T	Methylcyclohexane	50.000	47.171	5.7	77	0.00
40	TM	Benzene	50.000	51.523	-3.0	83	0.00
41	T	Methacrylonitrile	50.000	56.618	-13.2	89	0.00
42	TM	1,2-Dichloroethane	50.000	49.663	0.7	80	0.00
43	T	Isopropyl Acetate	50.000	53.933	-7.9	86	0.00
44	TM	Trichloroethene	50.000	51.488	-3.0	83	0.00
45	C	1,2-Dichloropropane	50.000	52.653	-5.3#	84	0.00
46	T	Dibromomethane	50.000	52.881	-5.8	84	0.00
47	T	Bromodichloromethane	50.000	51.676	-3.4	81	0.00
48	T	Methyl methacrylate	50.000	54.378	-8.8	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1379.627	-38.0#	103	0.00
50	S	Toluene-d8	50.000	53.290	-6.6	89	0.00
51	T	4-Methyl-2-Pentanone	250.000	296.207	-18.5	92	0.00
52	CM	Toluene	50.000	51.397	-2.8#	83	0.00
53	T	t-1,3-Dichloropropene	50.000	46.292	7.4	72	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.013	6.0	74	0.00
55	T	1,1,2-Trichloroethane	50.000	53.607	-7.2	85	0.00
56	T	Ethyl methacrylate	50.000	56.087	-12.2	86	0.00
57	T	1,3-Dichloropropane	50.000	54.213	-8.4	85	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	294.817	-17.9	96	0.00
59	T	2-Hexanone	250.000	288.900	-15.6	91	0.00
60	T	Dibromochloromethane	50.000	53.612	-7.2	83	0.00
61	T	1,2-Dibromoethane	50.000	56.360	-12.7	89	0.00
62	S	4-Bromofluorobenzene	50.000	53.949	-7.9	92	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	52.130	-4.3	89	0.00
65	PM	Chlorobenzene	50.000	50.402	-0.8	84	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.137	-2.3	83	0.00
67	C	Ethyl Benzene	50.000	49.712	0.6#	82	0.00
68	T	m/p-Xylenes	100.000	101.520	-1.5	83	0.00
69	T	o-Xylene	50.000	51.290	-2.6	83	0.00
70	T	Styrene	50.000	51.662	-3.3	85	0.00
71	P	Bromoform	50.000	53.967	-7.9	87	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73	T	Isopropylbenzene	50.000	48.594	2.8	81	0.00
74	T	N-amyl acetate	50.000	53.032	-6.1	87	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.960	-9.9	91	0.00
76	T	1,2,3-Trichloropropane	50.000	54.514	-9.0	87	0.00
77	T	Bromobenzene	50.000	50.657	-1.3	85	0.00
78	T	n-propylbenzene	50.000	49.095	1.8	81	0.00
79	T	2-Chlorotoluene	50.000	49.006	2.0	82	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.006	2.0	81	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	40.018	20.0	68	0.00
82	T	4-Chlorotoluene	50.000	48.683	2.6	82	0.00
83	T	tert-Butylbenzene	50.000	47.879	4.2	81	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.355	1.3	83	0.00
85	T	sec-Butylbenzene	50.000	48.459	3.1	81	0.00
86	T	p-Isopropyltoluene	50.000	47.972	4.1	80	0.00
87	T	1,3-Dichlorobenzene	50.000	49.790	0.4	84	0.00
88	T	1,4-Dichlorobenzene	50.000	48.435	3.1	84	0.00
89	T	n-Butylbenzene	50.000	47.254	5.5	79	0.00
90	T	Hexachloroethane	50.000	49.203	1.6	83	0.00
91	T	1,2-Dichlorobenzene	50.000	51.187	-2.4	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.516	-9.0	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.199	1.6	81	0.00
94	T	Hexachlorobutadiene	50.000	47.499	5.0	80	0.00
95	T	Naphthalene	50.000	54.002	-8.0	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	52.369	-4.7	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

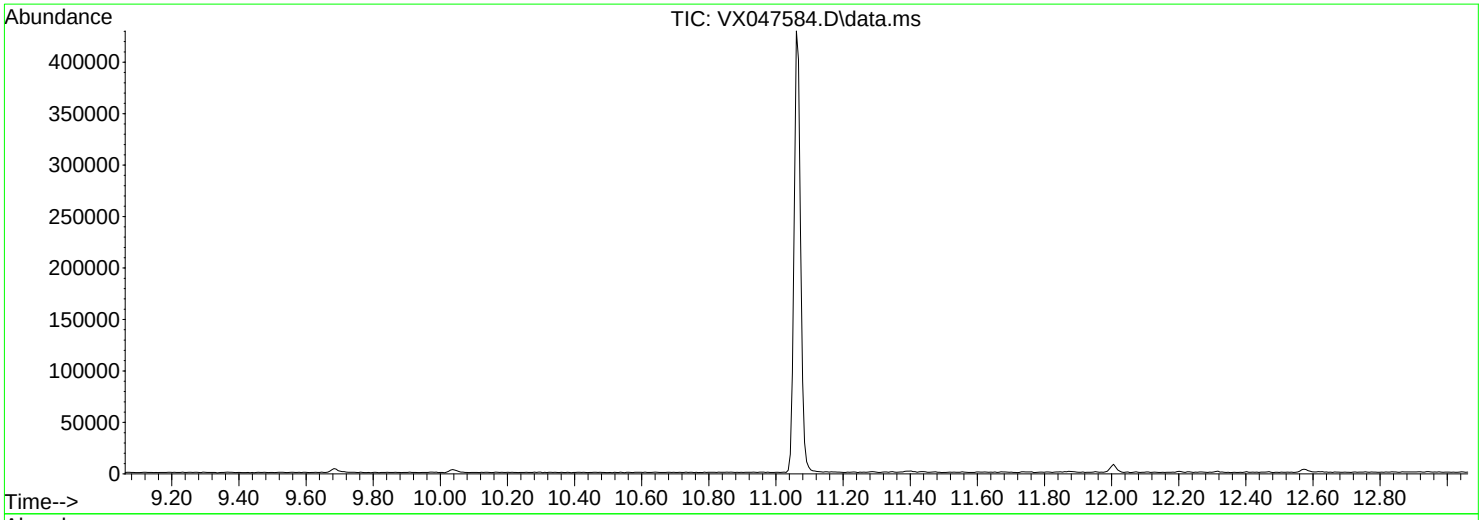
QC SAMPLE DATA

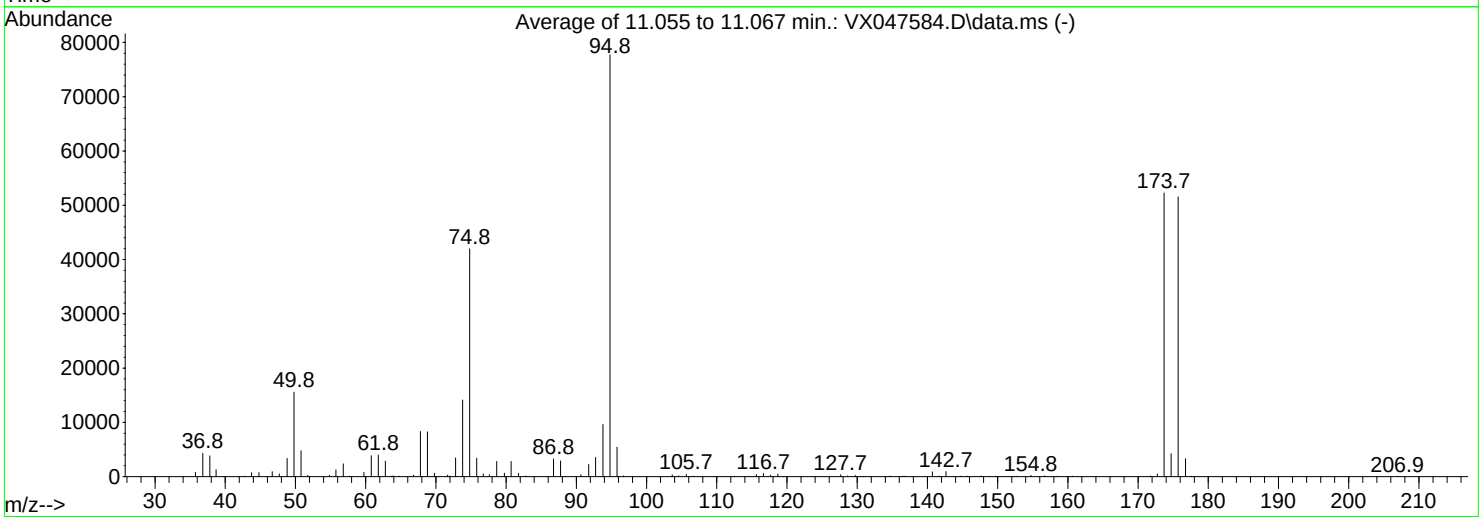
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047584.D
Acq On : 16 Sep 2025 08:56
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

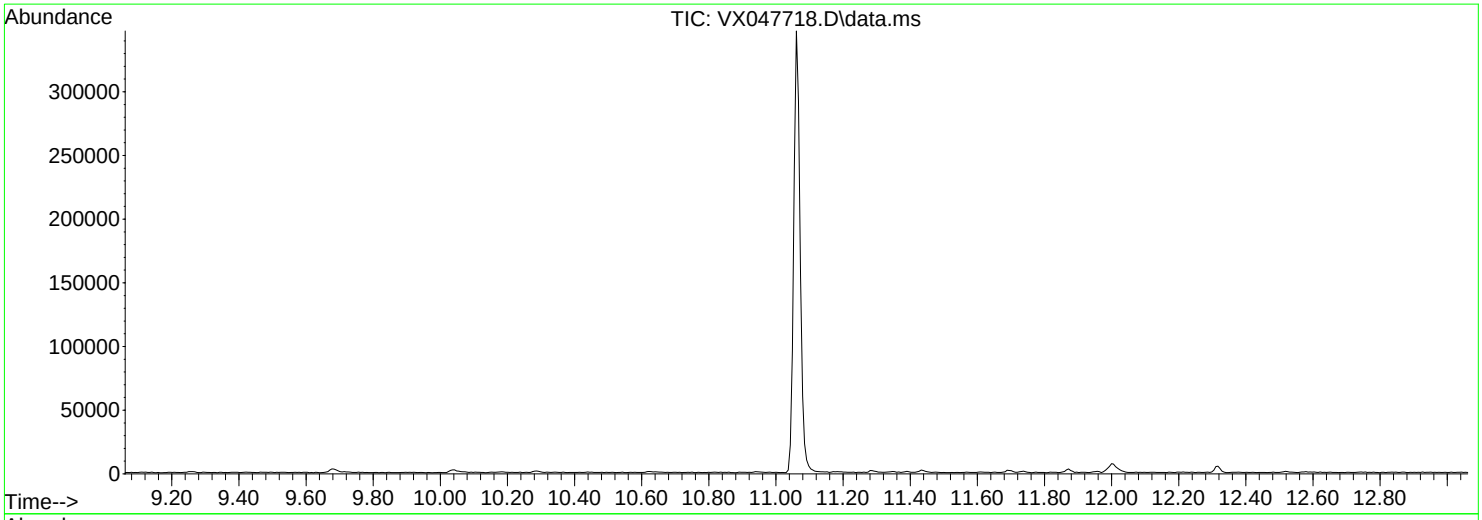
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	15566	PASS
75	95	30	60	54.0	41979	PASS
95	95	100	100	100.0	77717	PASS
96	95	5	9	7.0	5432	PASS
173	174	0.00	2	1.0	507	PASS
174	95	50	100	67.3	52275	PASS
175	174	5	9	8.1	4209	PASS
176	174	95	101	98.6	51560	PASS
177	176	5	9	6.4	3311	PASS

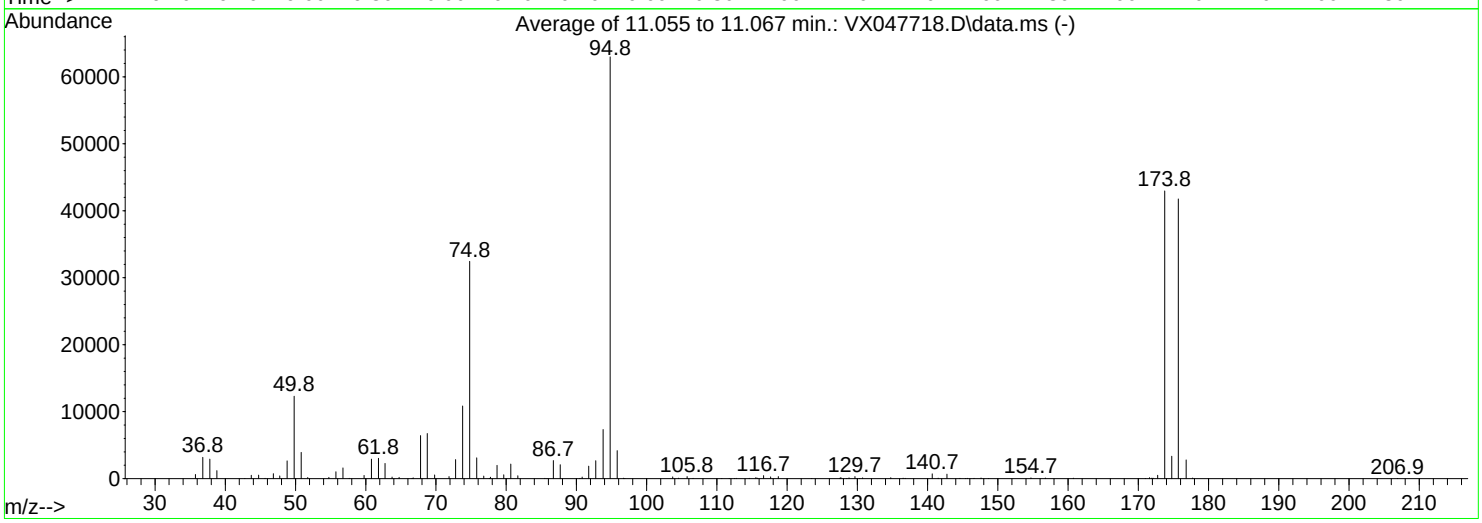
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047718.D
Acq On : 23 Sep 2025 08:05
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

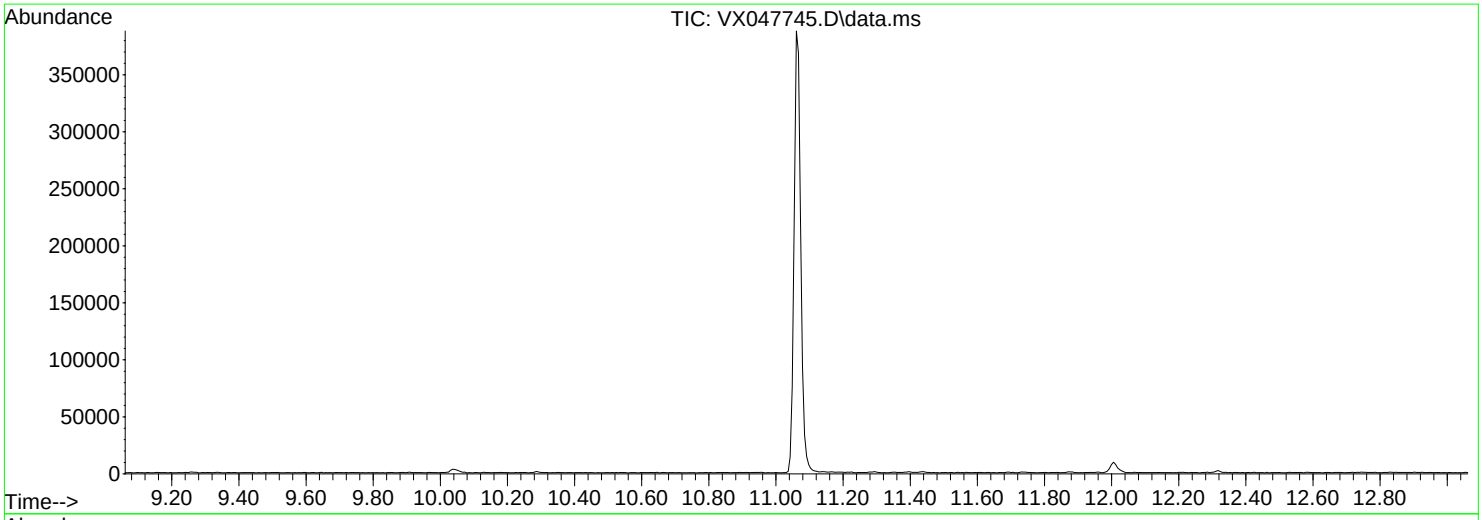
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	12318	PASS
75	95	30	60	51.5	32445	PASS
95	95	100	100	100.0	62984	PASS
96	95	5	9	6.6	4176	PASS
173	174	0.00	2	1.2	495	PASS
174	95	50	100	68.2	42955	PASS
175	174	5	9	7.8	3337	PASS
176	174	95	101	97.2	41752	PASS
177	176	5	9	6.7	2792	PASS

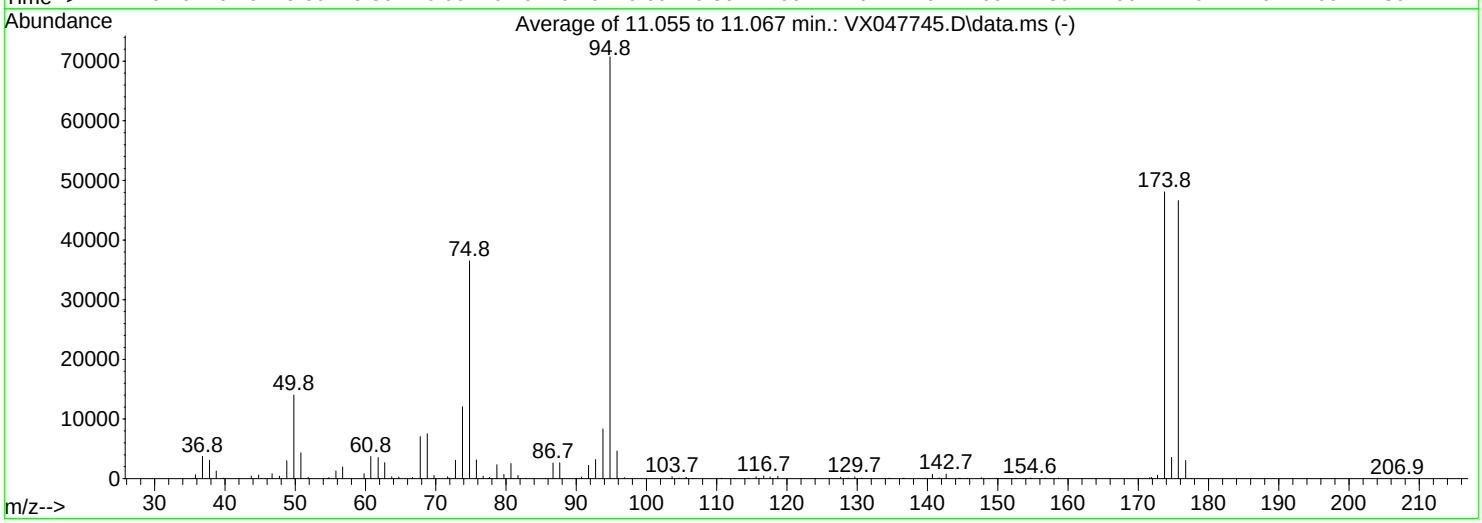
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047745.D
Acq On : 24 Sep 2025 01:30
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	14045	PASS
75	95	30	60	51.6	36501	PASS
95	95	100	100	100.0	70720	PASS
96	95	5	9	6.6	4644	PASS
173	174	0.00	2	1.2	568	PASS
174	95	50	100	68.0	48067	PASS
175	174	5	9	7.4	3558	PASS
176	174	95	101	97.0	46629	PASS
177	176	5	9	6.5	3052	PASS

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBL01	SDG No.:	Q3141
Lab Sample ID:	VX0923WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047721.D	1	09/23/25 10:22	VX092325

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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBL01	SDG No.:	Q3141
Lab Sample ID:	VX0923WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047721.D	1	09/23/25 10:22	VX092325

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	50.6		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	48.0		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	119000	5.531				
540-36-3	1,4-Difluorobenzene	249000	6.739				
3114-55-4	Chlorobenzene-d5	254000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	133000	12.006				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBL01	SDG No.:	Q3141
Lab Sample ID:	VX0923WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047721.D	1	09/23/25 10:22	VX092325

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\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Quant Time: Sep 24 01:26:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	119065	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	248954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	254277	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	132951	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	95920	50.612	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.220%			
35) Dibromofluoromethane	5.373	113	79691	47.730	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.460%			
50) Toluene-d8	8.635	98	277020	47.950	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.900%			
62) 4-Bromofluorobenzene	11.061	95	123900	56.509	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.020%			

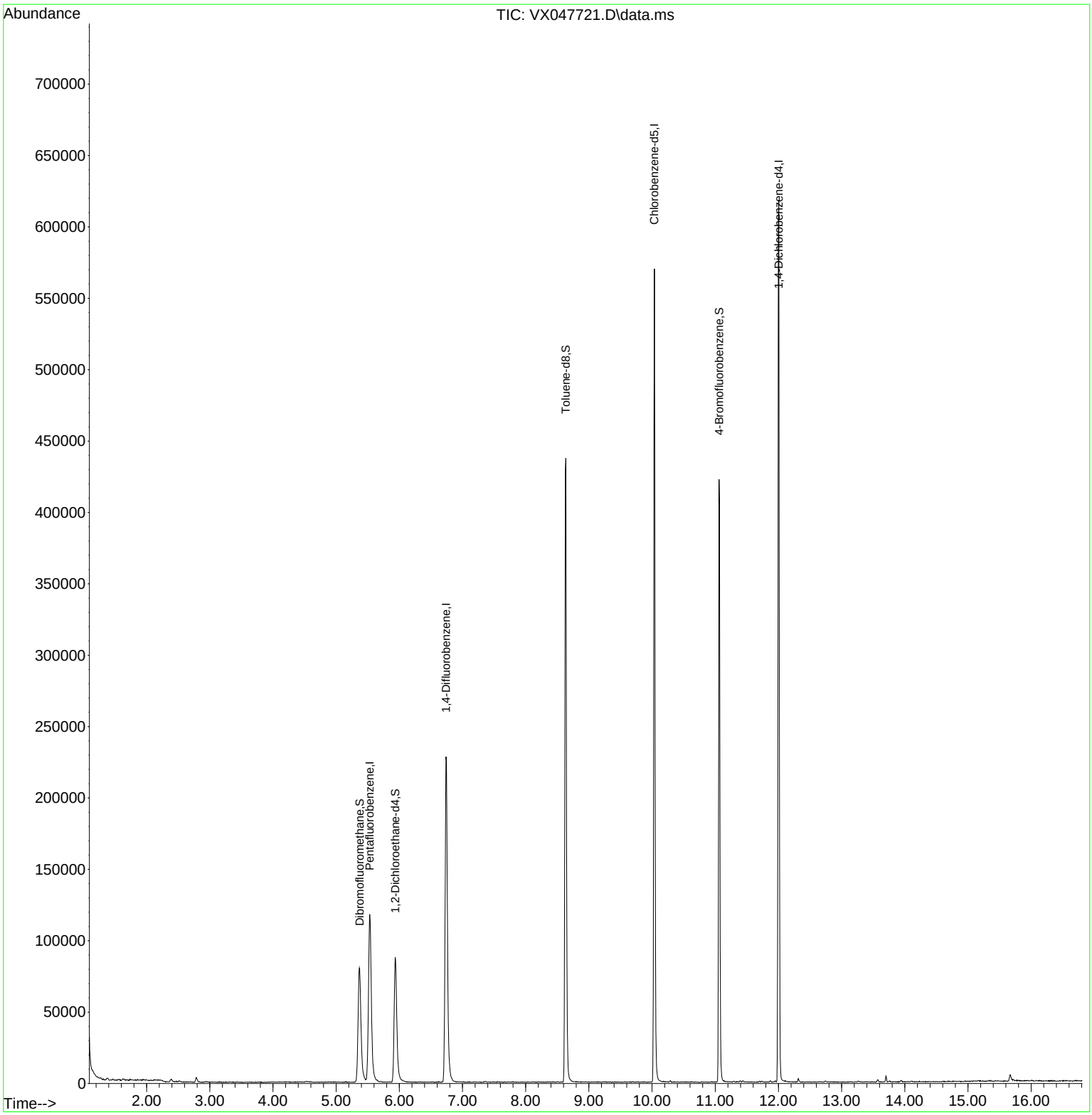
Target Compounds Qvalue

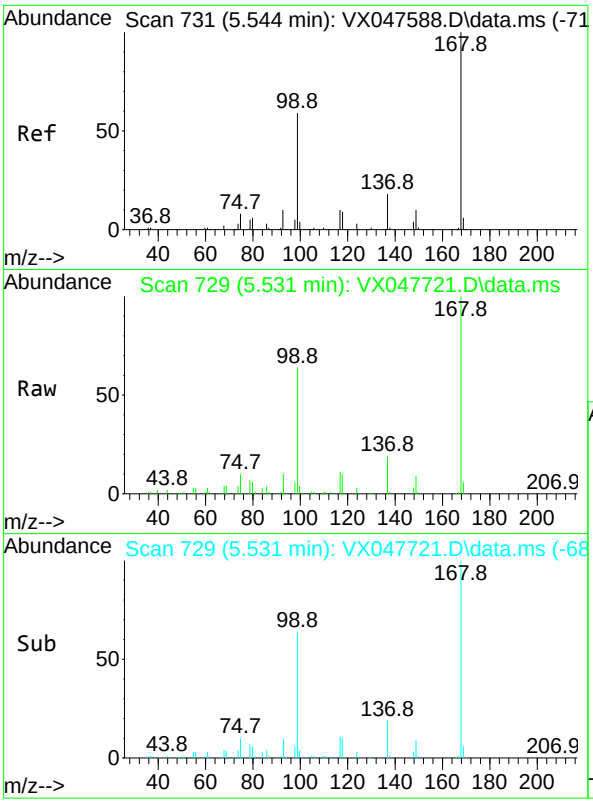
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Quant Time: Sep 24 01:26:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



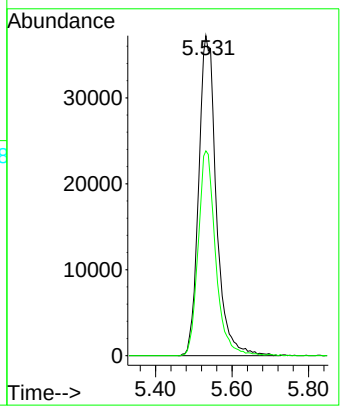


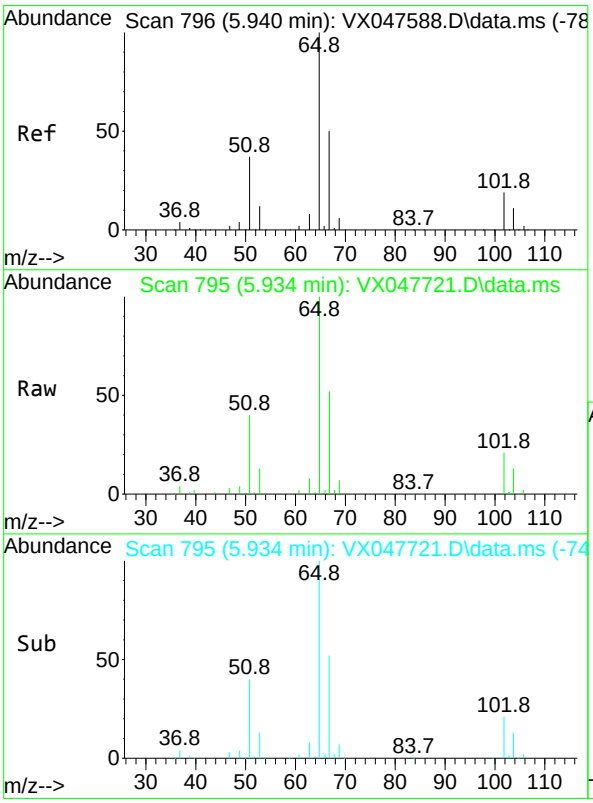
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion:168 Resp: 119065

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2

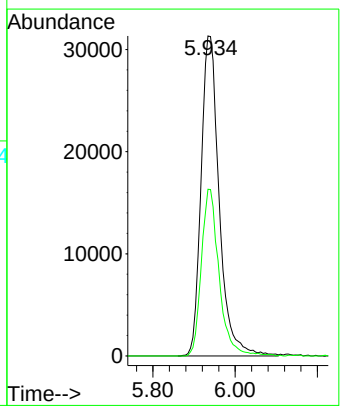


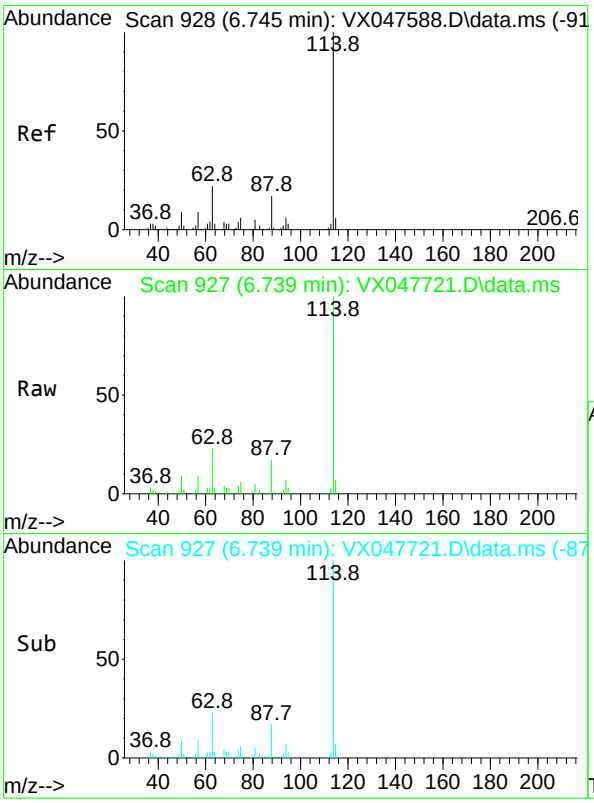


#33
1,2-Dichloroethane-d4
Concen: 50.612 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion: 65 Resp: 95920

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	103.0



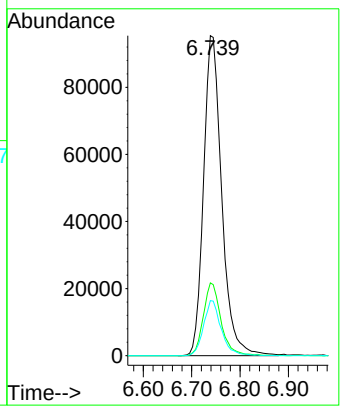


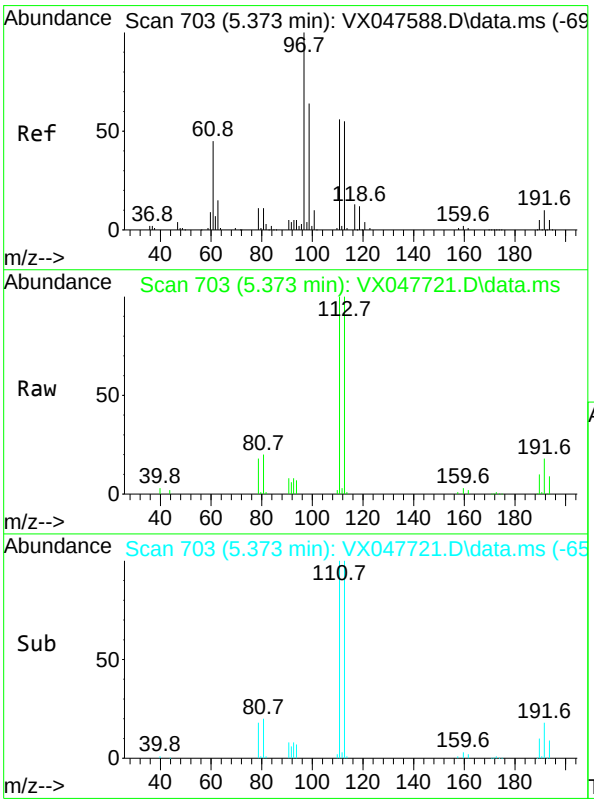
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion:114 Resp: 248954

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	44.0
88	17.2	0.0	34.2

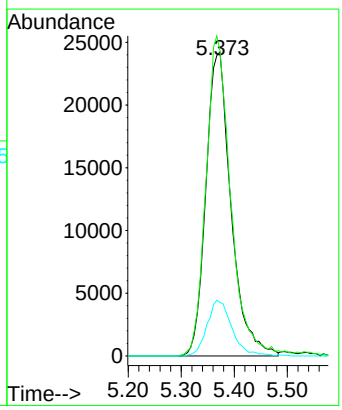


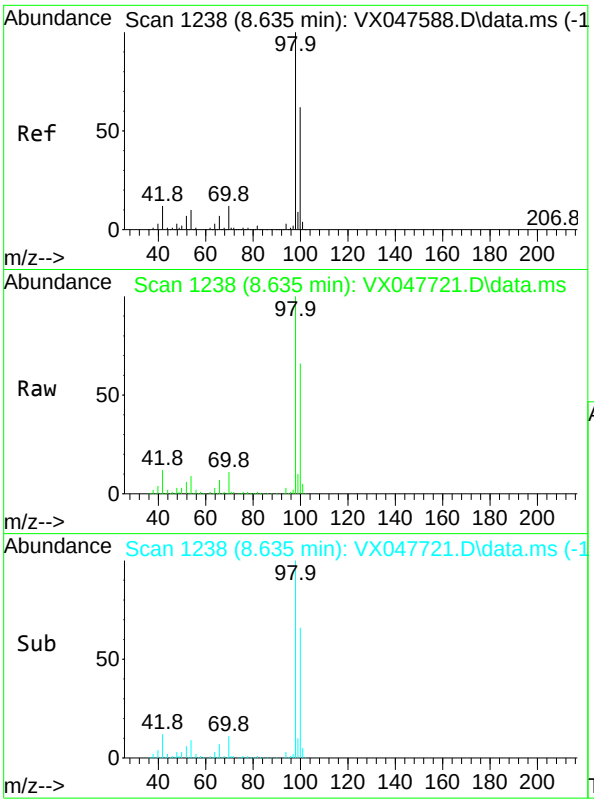


#35
Dibromofluoromethane
Concen: 47.730 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion:113 Resp: 79691

Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.9	121.3
192	18.1	14.2	21.4



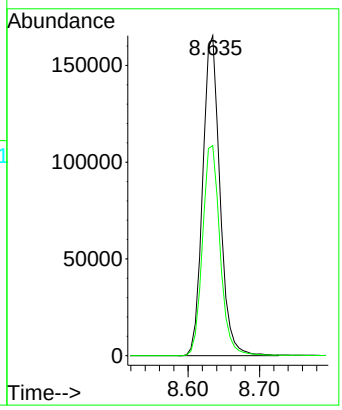


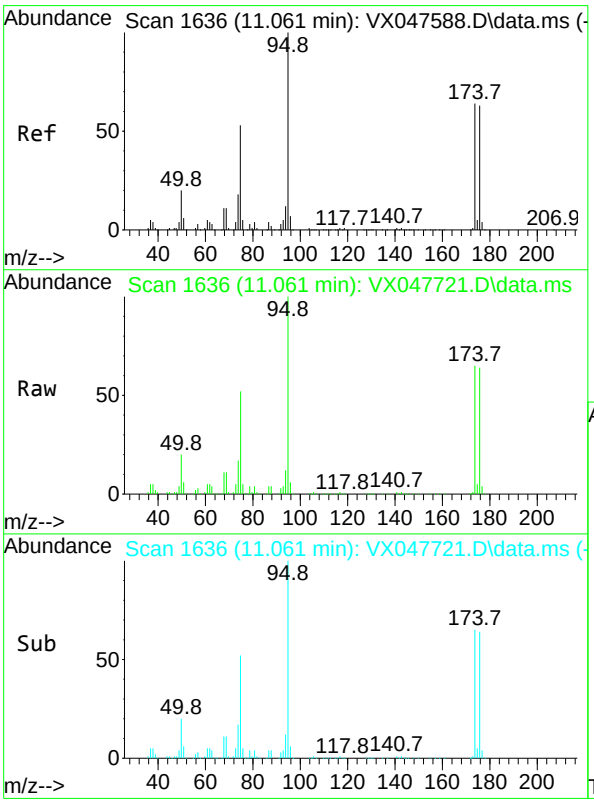
#50
Toluene-d8
Concen: 47.950 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion: 98 Resp: 277020

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4

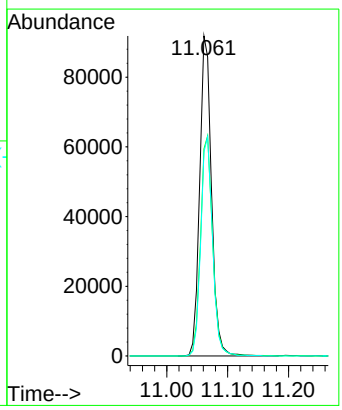


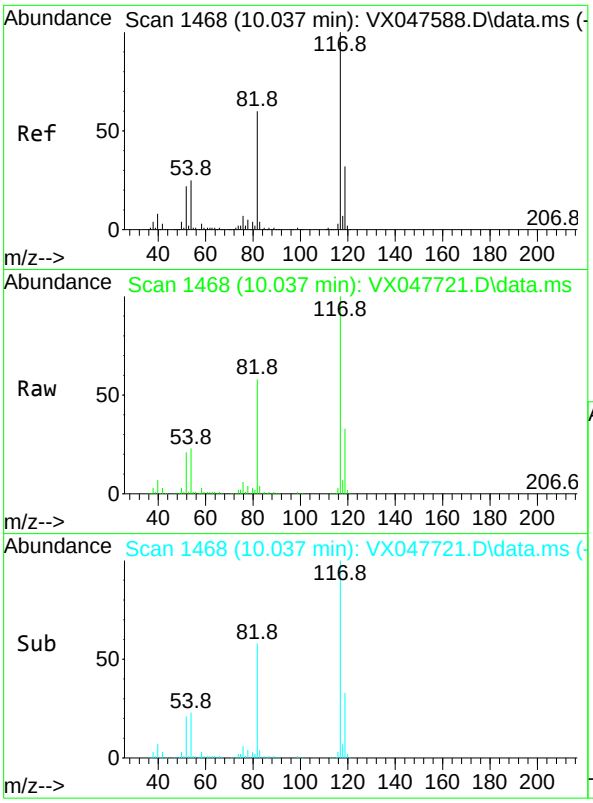


#62
4-Bromofluorobenzene
Concen: 56.509 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion: 95 Resp: 123900

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	141.6
176	68.4	0.0	138.4



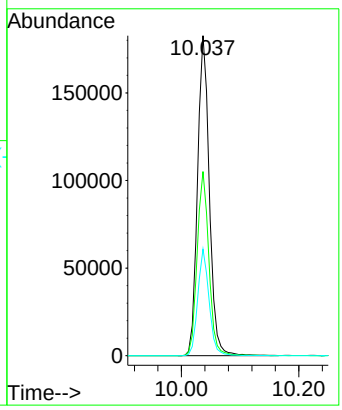


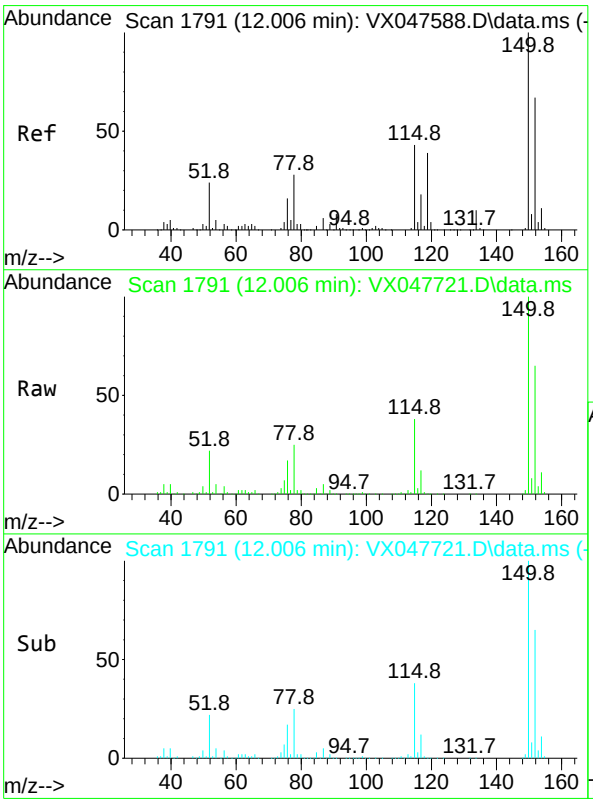
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion:117 Resp: 254277

Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.8	71.6
119	33.3	25.2	37.8

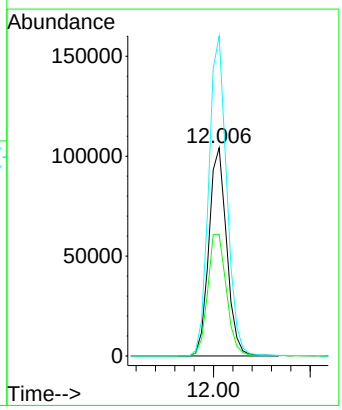




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion:152 Resp: 132951

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.9	134.5
150	156.0	0.0	352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047721.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.367	688	702	718	rBV3	79956	261667	31.50%	5.917%
2	5.531	720	729	747	rVB	116286	357458	43.03%	8.082%
3	5.934	786	795	811	rBV2	87543	256756	30.91%	5.806%
4	6.739	918	927	949	rBV	227806	591234	71.17%	13.368%
5	8.635	1231	1238	1252	rBV	437196	747472	89.97%	16.901%
6	10.037	1462	1468	1487	rBV	569544	793003	95.45%	17.931%
7	11.061	1631	1636	1648	rBV	422023	575868	69.32%	13.021%
8	12.006	1785	1791	1807	rBV	617648	830777	100.00%	18.785%
9	15.670	2388	2392	2398	rBV6	4302	8386	1.01%	0.190%

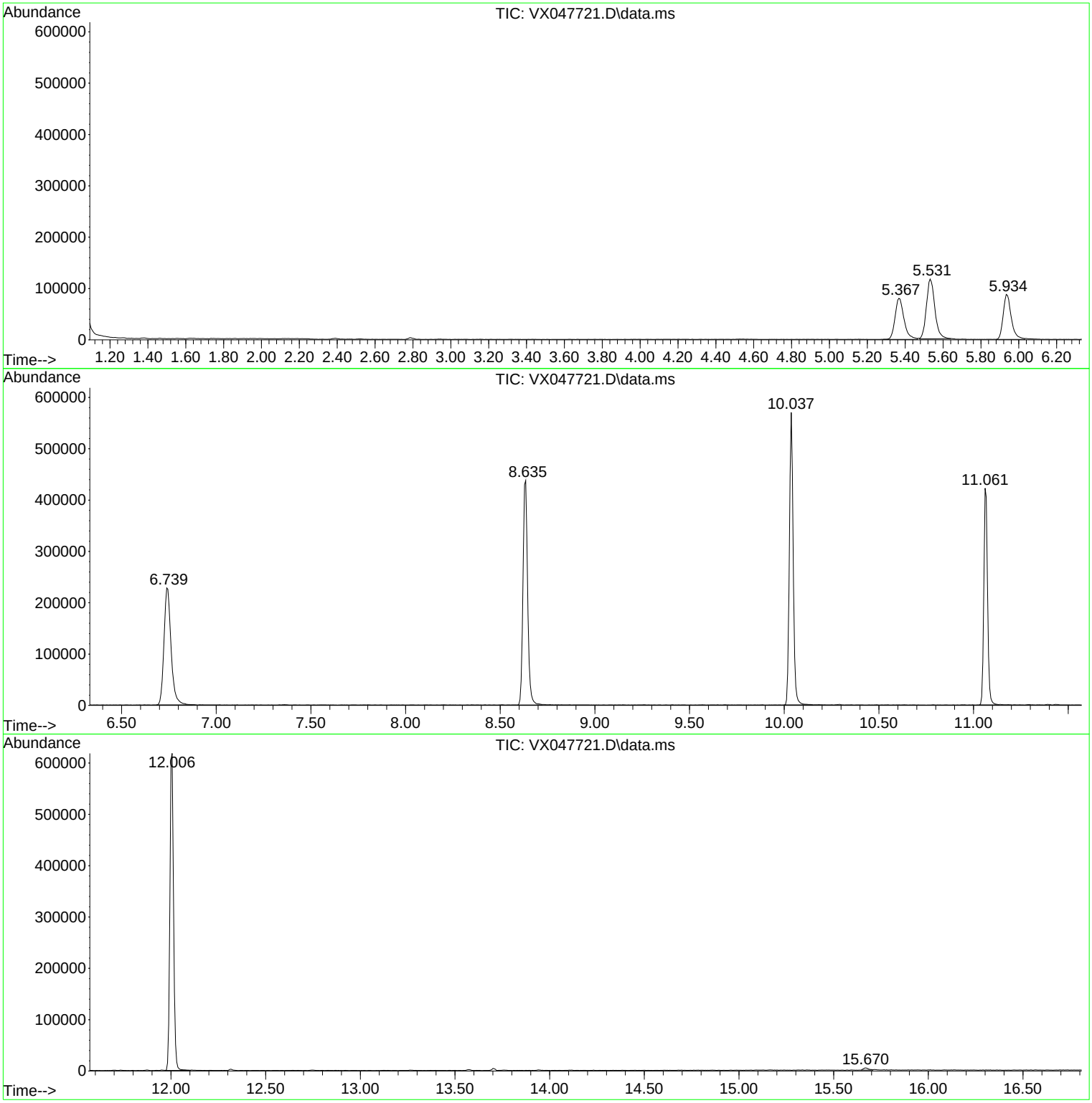
Sum of corrected areas: 4422621

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBL02	SDG No.:	Q3141
Lab Sample ID:	VX0923WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047747.D	1	09/24/25 03:11	VX092325

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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBL02	SDG No.:	Q3141
Lab Sample ID:	VX0923WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047747.D	1	09/24/25 03:11	VX092325

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	51.7		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	197000	5.544				
540-36-3	1,4-Difluorobenzene	378000	6.751				
3114-55-4	Chlorobenzene-d5	356000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	171000	12.006				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBL02	SDG No.:	Q3141
Lab Sample ID:	VX0923WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047747.D	1	09/24/25 03:11	VX092325

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\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Quant Time: Sep 24 03:44:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

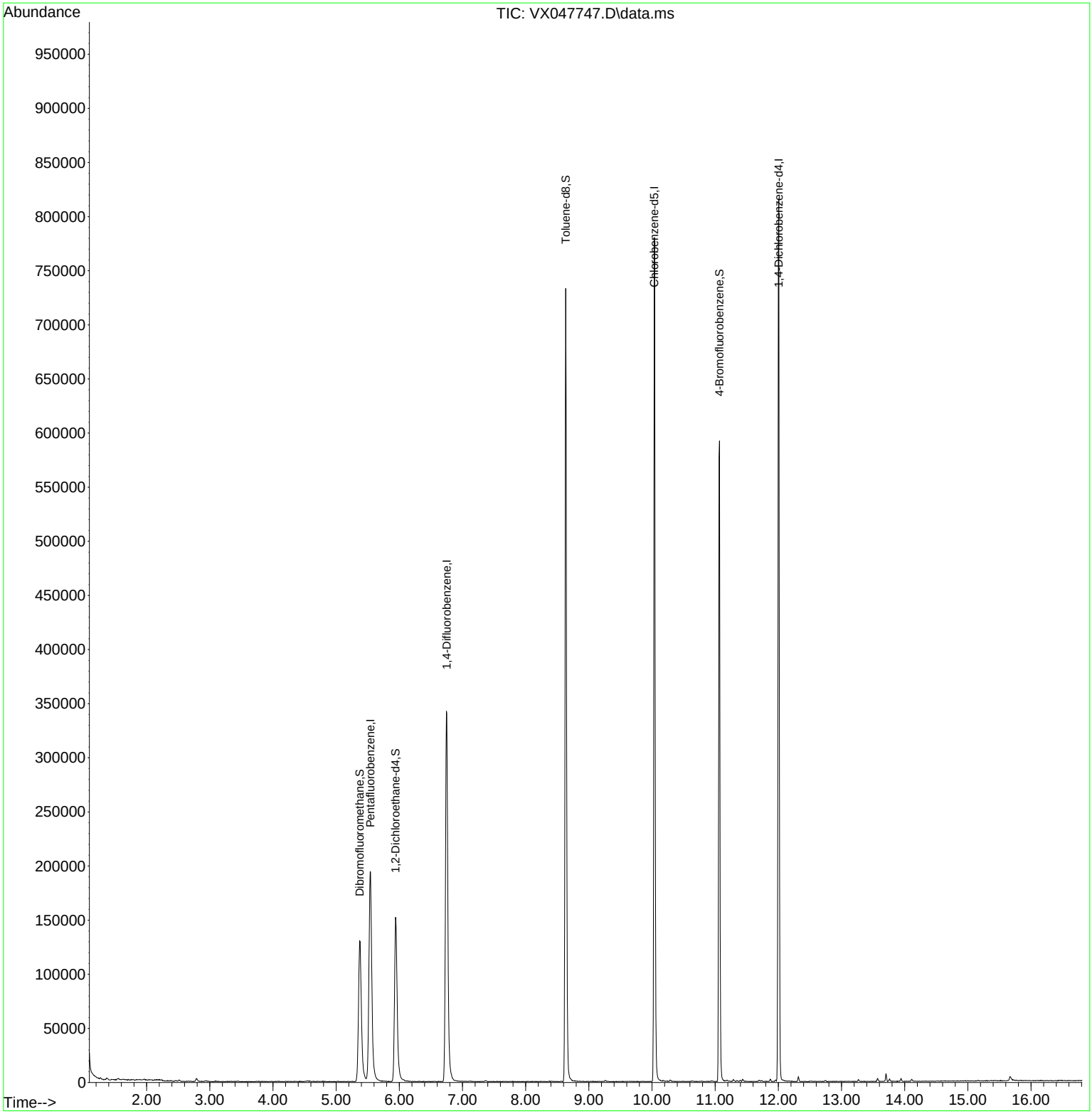
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	197095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	377977	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	356070	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	171478	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	162215	51.706	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.420%			
35) Dibromofluoromethane	5.373	113	128776	50.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.600%			
50) Toluene-d8	8.635	98	440529	50.224	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.440%			
62) 4-Bromofluorobenzene	11.067	95	172255	51.746	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.500%			
Target Compounds						Qvalue

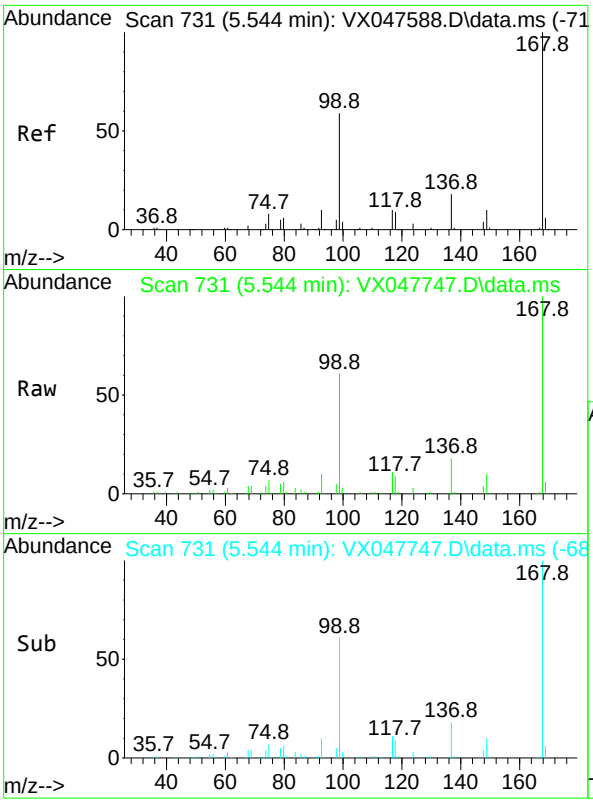
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Quant Time: Sep 24 03:44:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



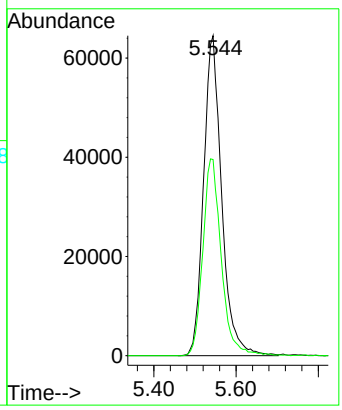


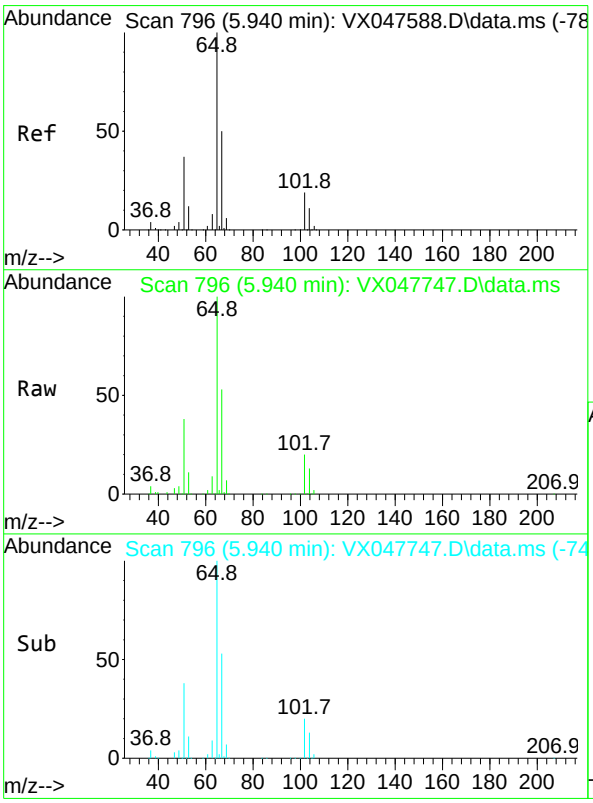
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion:168 Resp: 197095

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2

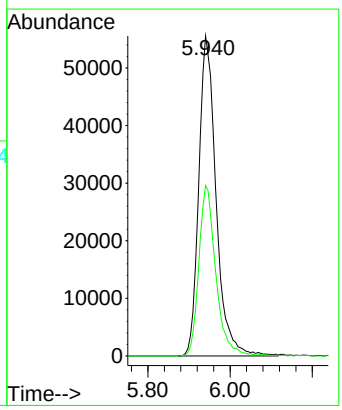


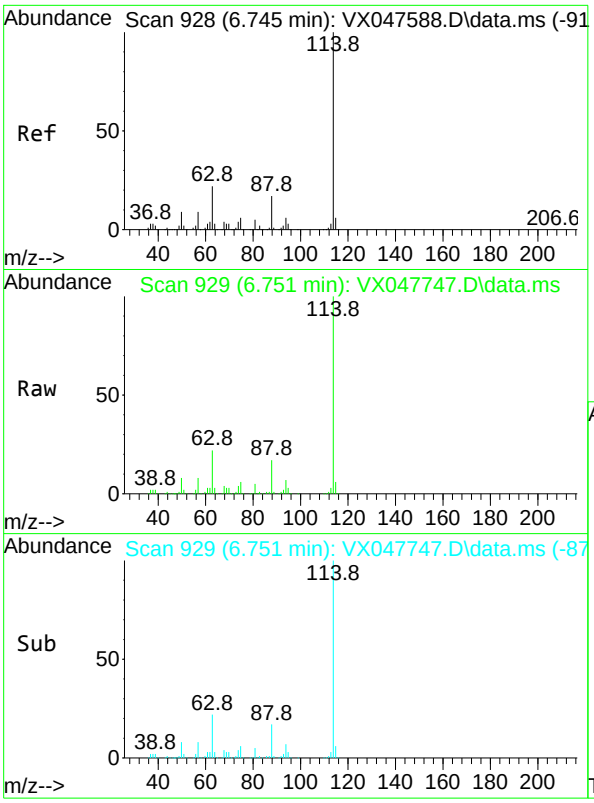


#33
1,2-Dichloroethane-d4
Concen: 51.706 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion: 65 Resp: 162215

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	103.0



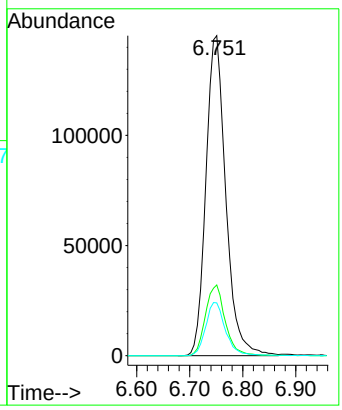


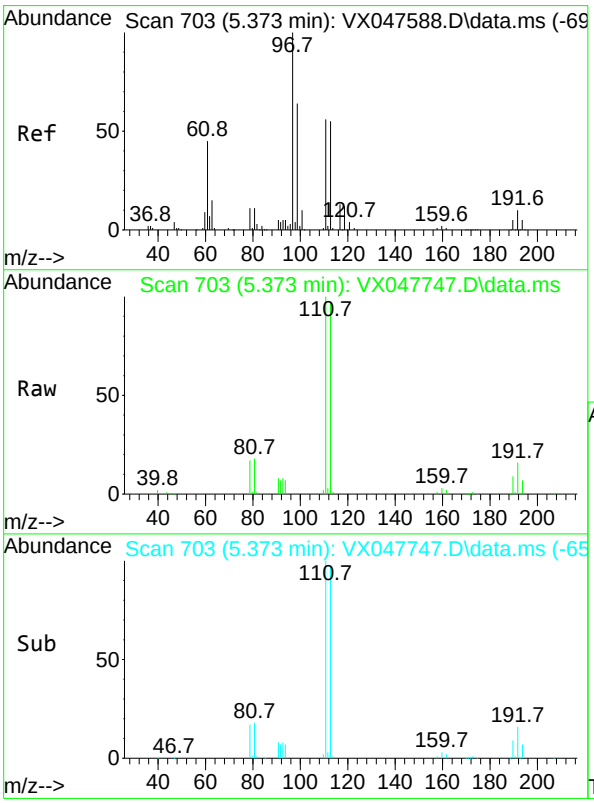
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion:114 Resp: 377977

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.0
88	16.5	0.0	34.2

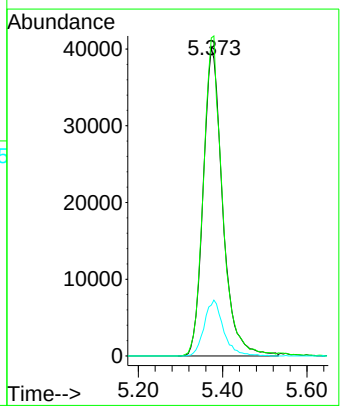


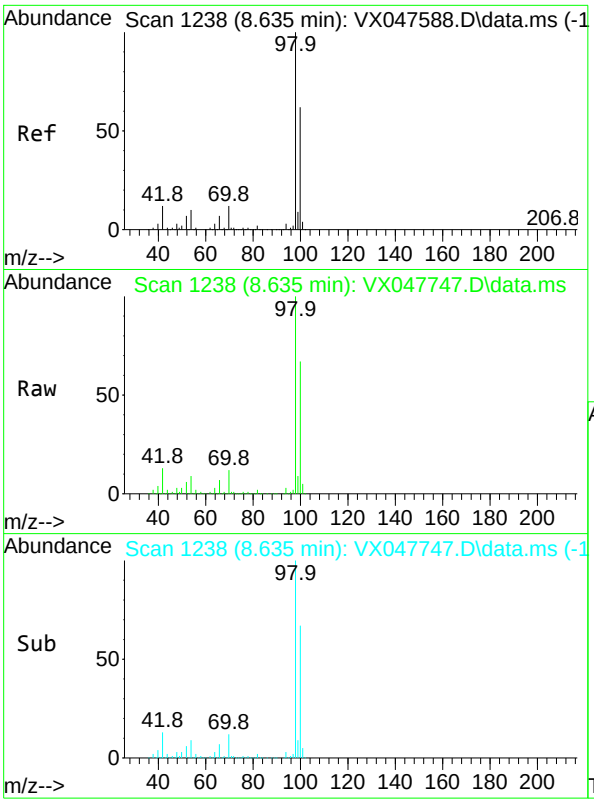


#35
Dibromofluoromethane
Concen: 50.801 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion:113 Resp: 128776

Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.9	121.3
192	18.0	14.2	21.4



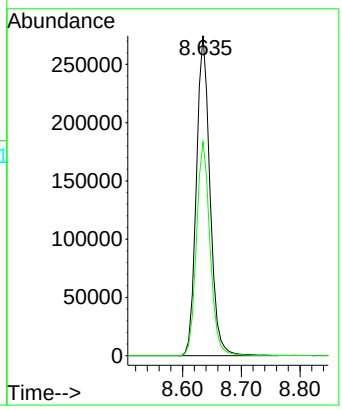


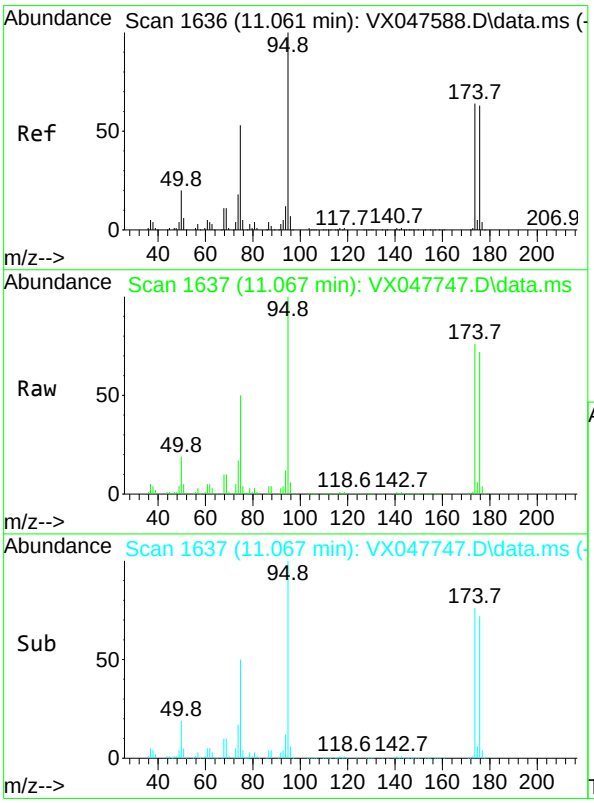
#50
Toluene-d8
Concen: 50.224 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion: 98 Resp: 440529

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

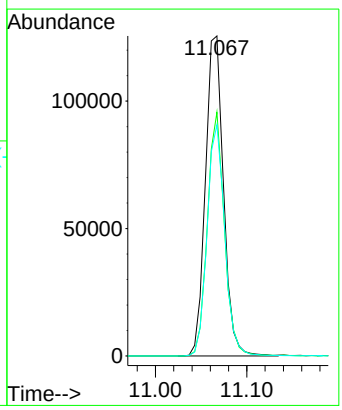


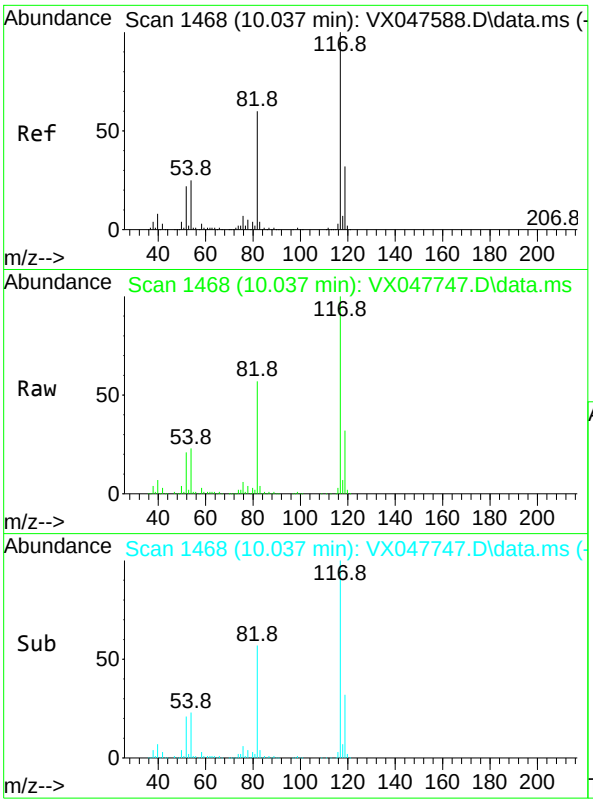


#62
4-Bromofluorobenzene
Concen: 51.746 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion: 95 Resp: 172255

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	141.6
176	70.3	0.0	138.4



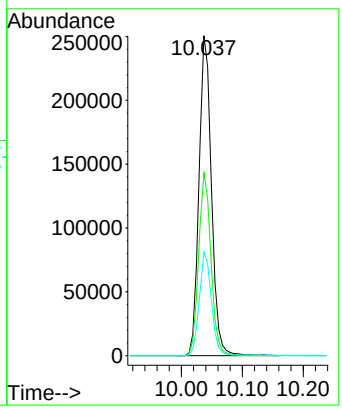


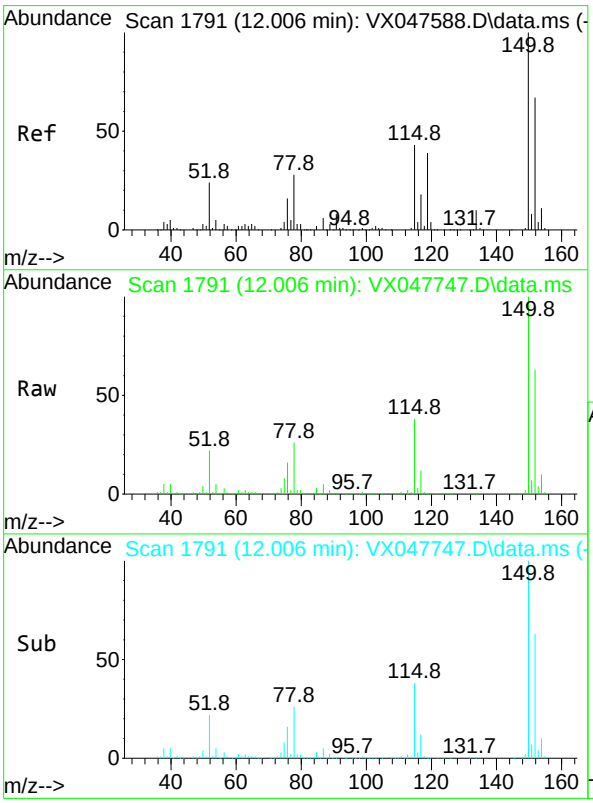
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion:117 Resp: 356070

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.8	71.6
119	32.4	25.2	37.8

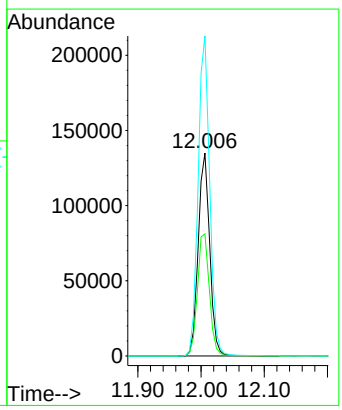




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion:152 Resp: 171478

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.9	134.5
150	158.1	0.0	352.0



Sample Results: **VX047747.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260

Signal : TIC: VX047747.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.373	690	703	720	rBV4	130009	417695	35.09%	6.382%
2	5.544	720	731	757	rVB	193478	608449	51.12%	9.297%
3	5.940	786	796	816	rBV	151763	441905	37.13%	6.752%
4	6.745	918	928	949	rBV	342348	900643	75.67%	13.762%
5	8.635	1231	1238	1259	rBV	732794	1190252	100.00%	18.187%
6	10.037	1462	1468	1483	rBV	779803	1100647	92.47%	16.818%
7	11.067	1631	1637	1648	rBV	592054	811047	68.14%	12.393%
8	12.006	1785	1791	1801	rBV	815074	1073777	90.21%	16.408%

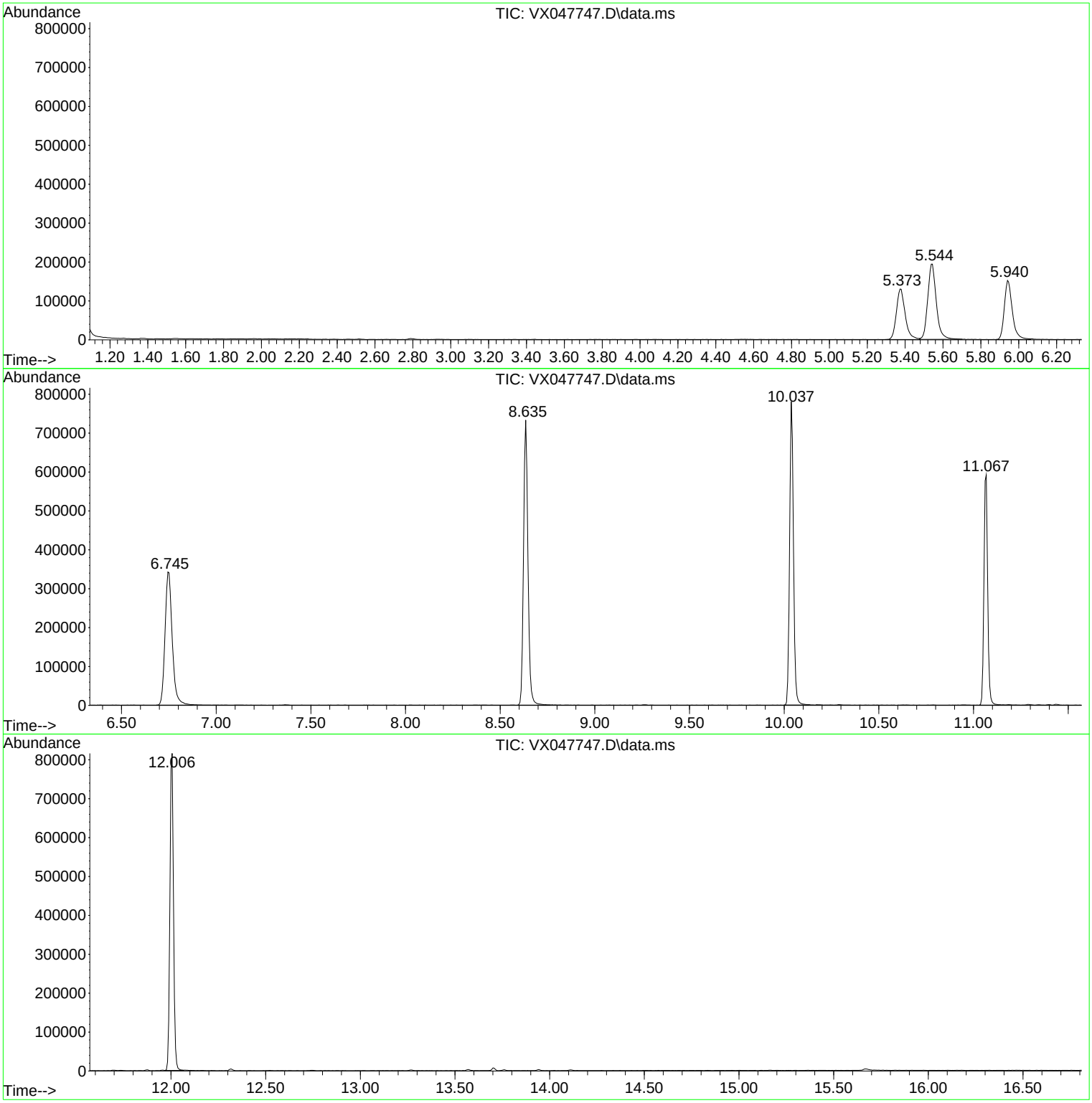
Sum of corrected areas: 6544415

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBS02	SDG No.:	Q3141
Lab Sample ID:	VX0923WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047723.D	1	09/23/25 11:15	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.2		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	17.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	16.5		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.6		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.7		0.23	0.75	1.00	ug/L
67-64-1	Acetone	71.7		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.2		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	16.6		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	16.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.0		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	16.5		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	16.7		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	78.7		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	15.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.2		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	16.8		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	16.6		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	16.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.3		0.16	0.50	1.00	ug/L
71-43-2	Benzene	16.7		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	16.5		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.5		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	16.8		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	16.6		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	86.0		0.68	2.50	5.00	ug/L
108-88-3	Toluene	16.9		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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBS02	SDG No.:	Q3141
Lab Sample ID:	VX0923WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047723.D	1	09/23/25 11:15	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.3		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	16.8		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	83.0		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	17.2		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.4		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	17.1		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	16.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	16.7		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	33.9		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	16.9		0.12	0.50	1.00	ug/L
100-42-5	Styrene	16.6		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	16.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	16.4		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	16.6		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.9		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.6		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	16.7		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.2		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.2		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.4		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.0		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	46.4		89 - 112		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	182000	5.532				
540-36-3	1,4-Difluorobenzene	323000	6.745				
3114-55-4	Chlorobenzene-d5	290000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	142000	12.006				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBS02	SDG No.:	Q3141
Lab Sample ID:	VX0923WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047723.D	1	09/23/25 11:15	VX092325

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\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	181787	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	322664	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	289792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141661	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	130163	44.983	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 89.960%			
35) Dibromofluoromethane	5.367	113	99865	46.149	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.300%			
50) Toluene-d8	8.635	98	347178	46.366	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.740%			
62) 4-Bromofluorobenzene	11.061	95	132914	46.772	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	36156	19.207	ug/l	99
3) Chloromethane	1.301	50	43445	17.560	ug/l	96
4) Vinyl Chloride	1.380	62	42062	17.368	ug/l	99
5) Bromomethane	1.618	94	28441	18.520	ug/l	96
6) Chloroethane	1.697	64	26753	16.528	ug/l	98
7) Trichlorofluoromethane	1.898	101	59843	16.642	ug/l	98
8) Diethyl Ether	2.136	74	24021	16.330	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	35974	17.109	ug/l	99
10) Methyl Iodide	2.453	142	51945	15.841	ug/l	99
11) Tert butyl alcohol	2.934	59	23851	74.010	ug/l	99
12) 1,1-Dichloroethene	2.325	96	36148	16.737	ug/l	94
13) Acrolein	2.233	56	26313	88.603	ug/l	100
14) Allyl chloride	2.666	41	70142	15.738	ug/l	98
15) Acrylonitrile	3.056	53	100750	84.401	ug/l	99
16) Acetone	2.374	43	90216	71.706	ug/l	98
17) Carbon Disulfide	2.514	76	101957	17.244	ug/l	99
18) Methyl Acetate	2.697	43	46539	16.621	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	128594	16.310	ug/l	98
20) Methylene Chloride	2.788	84	43710	16.413	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	39414	16.950	ug/l	96
22) Diisopropyl ether	3.745	45	144354	16.712	ug/l #	79
23) Vinyl Acetate	3.709	43	575126	83.195	ug/l	99
24) 1,1-Dichloroethane	3.599	63	75728	16.495	ug/l	99
25) 2-Butanone	4.538	43	123517	78.705	ug/l	99
26) 2,2-Dichloropropane	4.465	77	60715	15.910	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	46069	16.177	ug/l	97
28) Bromochloromethane	4.885	49	33685	16.807	ug/l	99
29) Tetrahydrofuran	4.995	42	79140	83.826	ug/l	98
30) Chloroform	5.074	83	77095	16.618	ug/l	98
31) Cyclohexane	5.458	56	63808	16.688	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	64618	16.421	ug/l	97
36) 1,1-Dichloropropene	5.672	75	53594	16.949	ug/l	99
37) Ethyl Acetate	4.696	43	53300	15.743	ug/l	99
38) Carbon Tetrachloride	5.666	117	54702	15.922	ug/l	99
39) Methylcyclohexane	7.360	83	62254	17.344	ug/l	97
40) Benzene	6.025	78	160358	16.697	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	30351	17.365	ug/l		96
42) 1,2-Dichloroethane	6.068	62	60128	16.455	ug/l		98
43) Isopropyl Acetate	6.318	43	90880	16.367	ug/l		99
44) Trichloroethene	7.111	130	40550	17.464	ug/l		95
45) 1,2-Dichloropropane	7.409	63	41341	16.811	ug/l		99
46) Dibromomethane	7.562	93	29969	16.746	ug/l		97
47) Bromodichloromethane	7.806	83	61218	16.577	ug/l		100
48) Methyl methacrylate	7.677	41	44713	16.166	ug/l		98
49) 1,4-Dioxane	7.647	88	10693	382.549	ug/l		94
51) 4-Methyl-2-Pentanone	8.555	43	264665	85.968	ug/l		99
52) Toluene	8.702	92	99779	16.863	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	61393	16.298	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	67677	16.810	ug/l		97
55) 1,1,2-Trichloroethane	9.135	97	39130	17.151	ug/l		99
56) Ethyl methacrylate	9.098	69	60408	16.859	ug/l		98
57) 1,3-Dichloropropane	9.293	76	68685	17.525	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	143660	91.195	ug/l		100
59) 2-Hexanone	9.415	43	183521	83.000	ug/l		99
60) Dibromochloromethane	9.506	129	45346	17.249	ug/l		100
61) 1,2-Dibromoethane	9.592	107	40518	17.435	ug/l		99
64) Tetrachloroethene	9.256	164	32372	17.136	ug/l		98
65) Chlorobenzene	10.061	112	109903	16.694	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.147	131	37383	16.455	ug/l		97
67) Ethyl Benzene	10.177	91	189524	16.684	ug/l		98
68) m/p-Xylenes	10.287	106	143444	33.927	ug/l		100
69) o-Xylene	10.622	106	68954	16.861	ug/l		99
70) Styrene	10.640	104	118603	16.552	ug/l		99
71) Bromoform	10.781	173	28237	16.646	ug/l	#	99
73) Isopropylbenzene	10.945	105	177153	16.449	ug/l		99
74) N-amyl acetate	10.823	43	80035	16.296	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	54058	16.590	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	49816m	17.368	ug/l		
77) Bromobenzene	11.183	156	43202	16.287	ug/l		98
78) n-propylbenzene	11.287	91	213079	16.736	ug/l		100
79) 2-Chlorotoluene	11.348	91	128239	16.446	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	147832	16.707	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	16574	14.736	ug/l		99
82) 4-Chlorotoluene	11.439	91	153584	16.677	ug/l		100
83) tert-Butylbenzene	11.695	119	149430	16.497	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	150232	16.747	ug/l		100
85) sec-Butylbenzene	11.872	105	181026	16.825	ug/l		100
86) p-Isopropyltoluene	11.994	119	154052	16.913	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	83142	16.875	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	83968	16.605	ug/l		99
89) n-Butylbenzene	12.317	91	144464	17.140	ug/l		99
90) Hexachloroethane	12.518	117	25557	15.981	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	78309	16.683	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	10024	15.194	ug/l		95
93) 1,2,4-Trichlorobenzene	13.567	180	49366	16.182	ug/l		99
94) Hexachlorobutadiene	13.707	225	17786	17.165	ug/l		98
95) Naphthalene	13.756	128	146235	15.742	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	46461	16.373	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

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

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

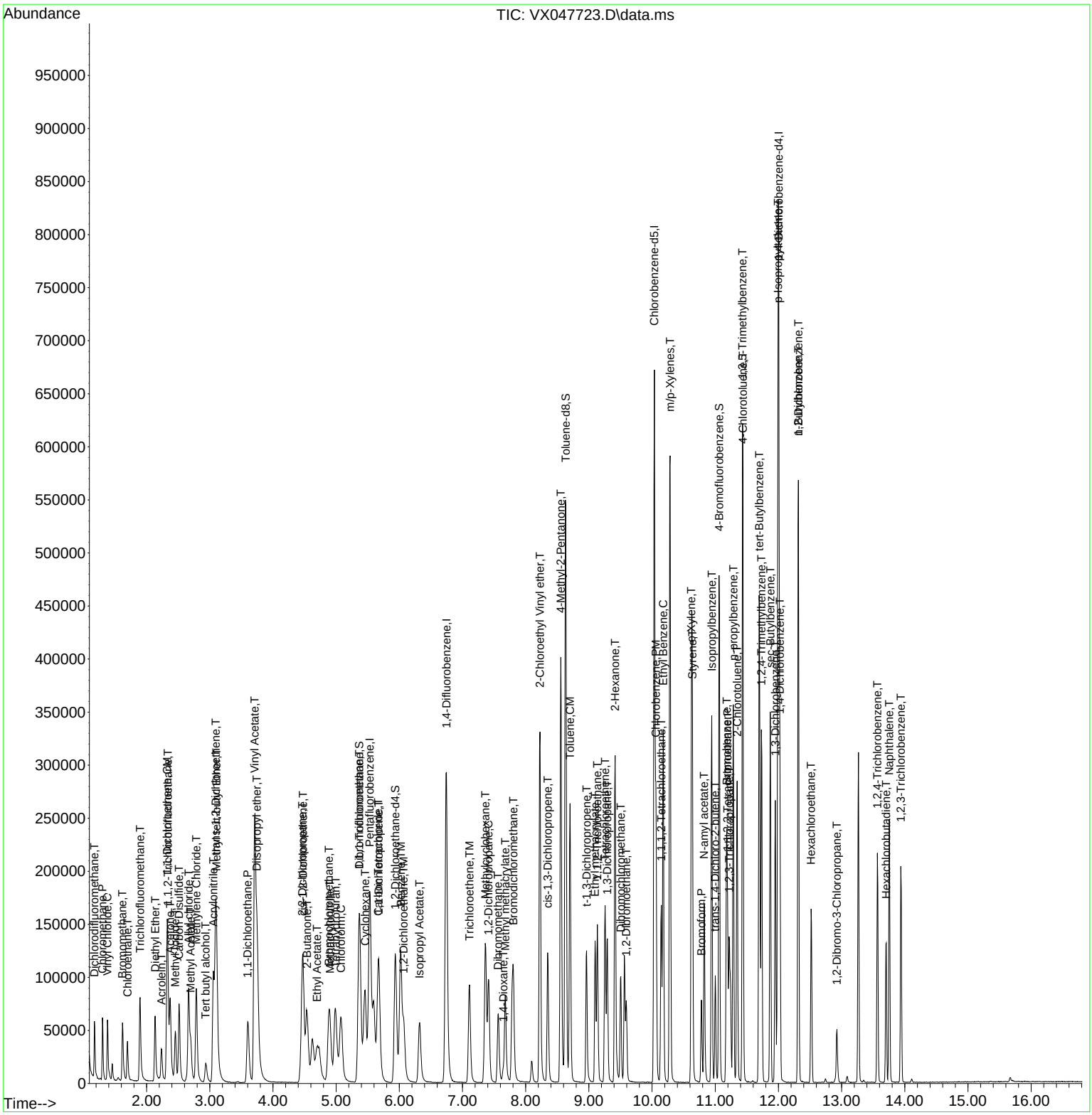
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

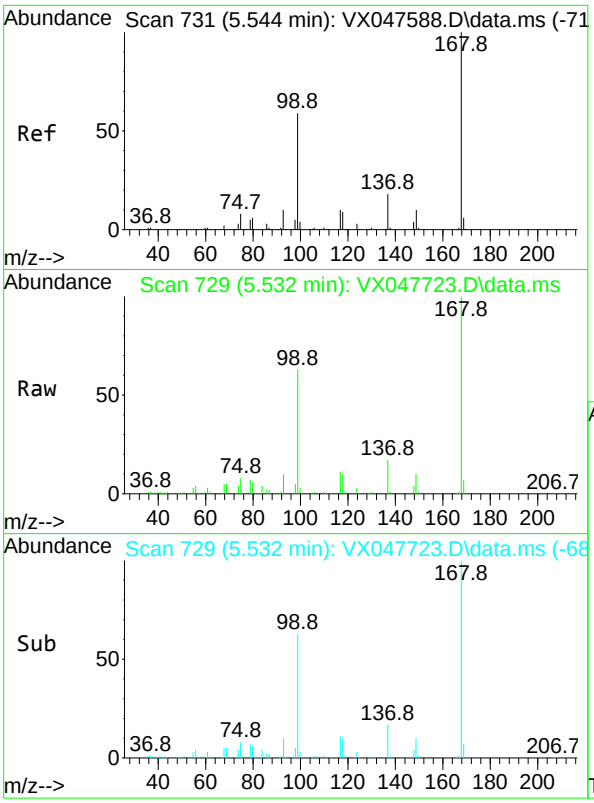
Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

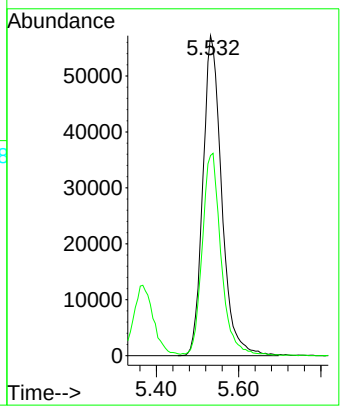




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:168 Resp: 18178

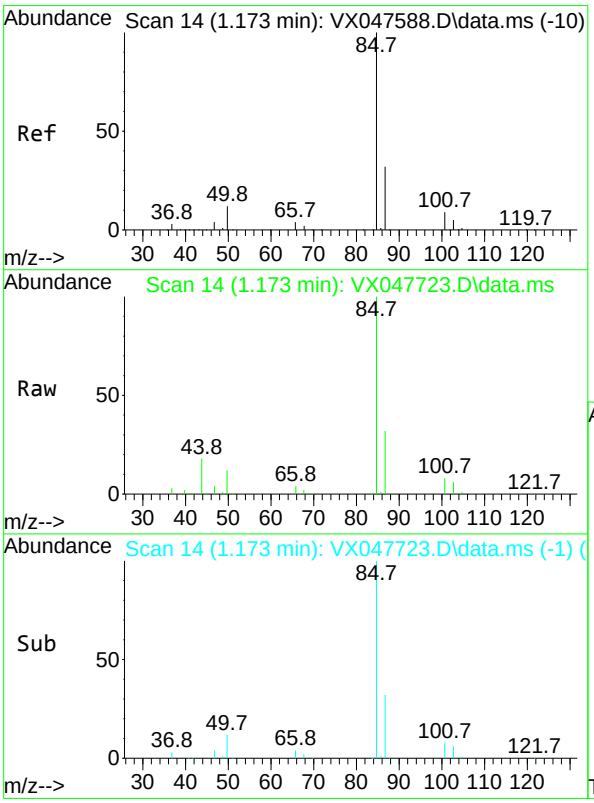
Ion	Ratio	Lower	Upper
168	100		
99	62.3	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

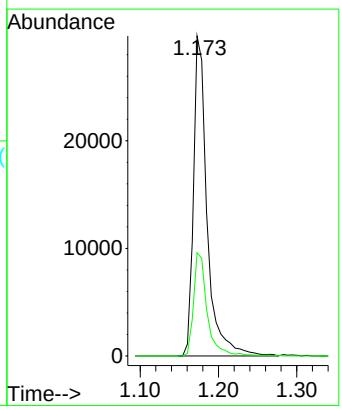
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

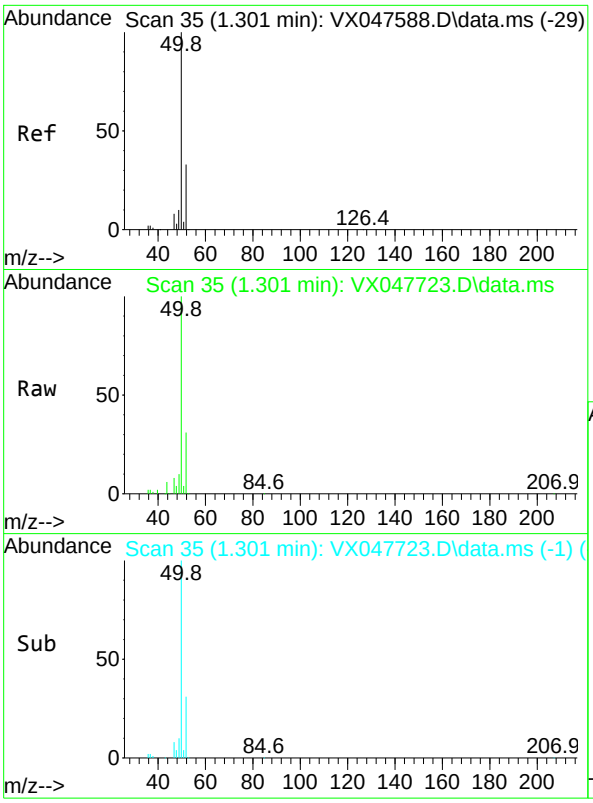


#2
Dichlorodifluoromethane
Concen: 19.207 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 85 Resp: 36156

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3

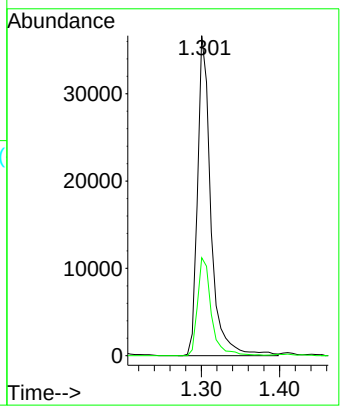




#3
Chloromethane
Concen: 17.560 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 50 Resp: 4344

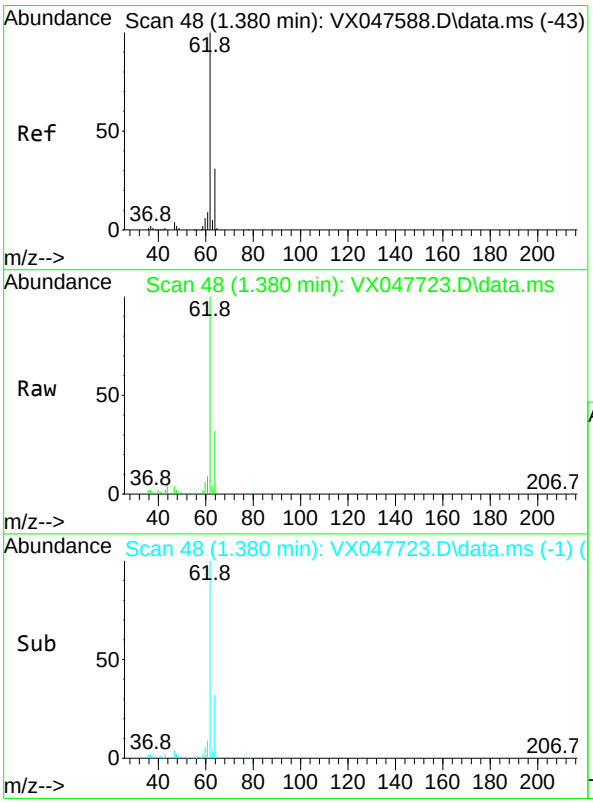
Ion	Ratio	Lower	Upper
50	100		
52	30.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

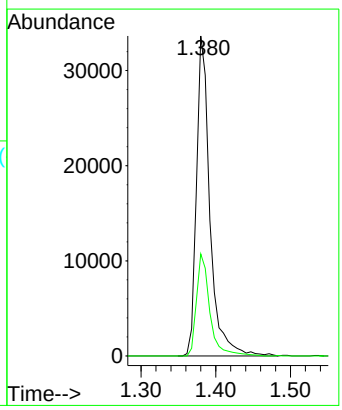
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

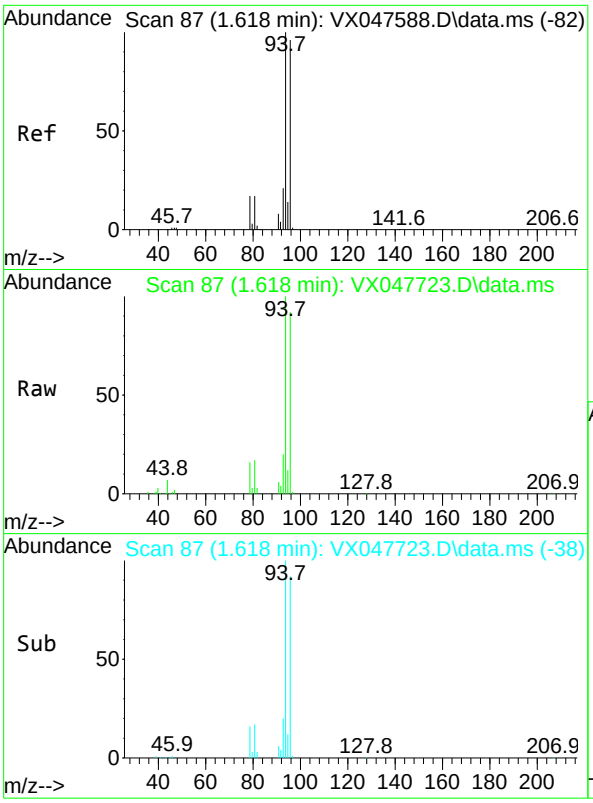


#4
Vinyl Chloride
Concen: 17.368 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 42062

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3

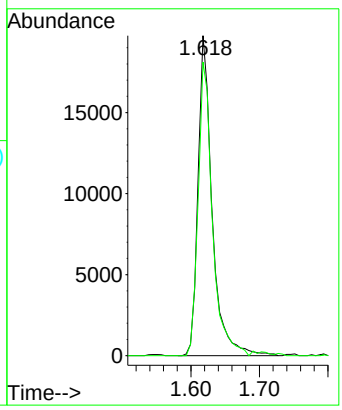




#5
Bromomethane
Concen: 18.520 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 94 Resp: 2844

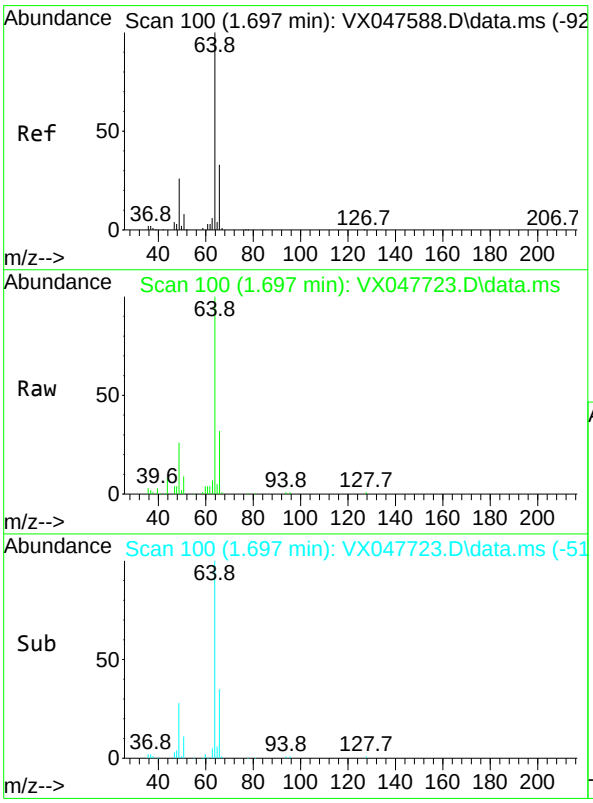
Ion	Ratio	Lower	Upper
94	100		
96	91.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

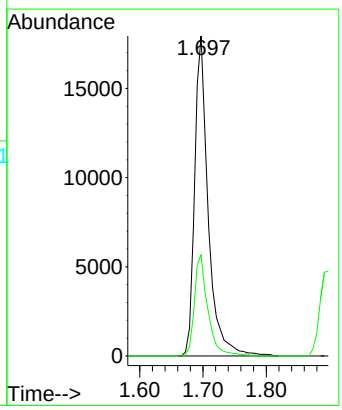
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

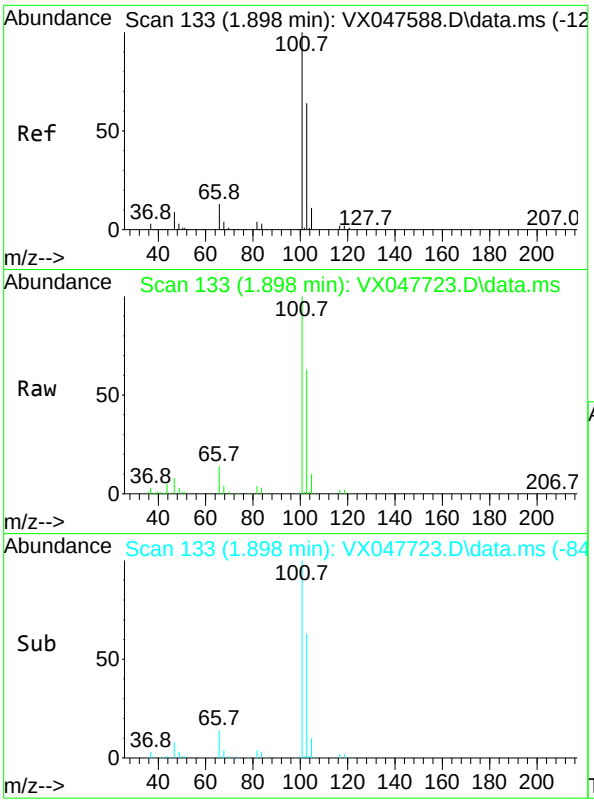


#6
Chloroethane
Concen: 16.528 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 64 Resp: 26753

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.1	39.1

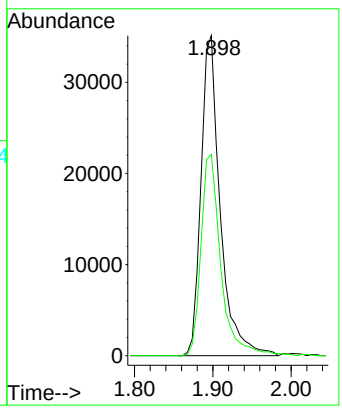




#7
Trichlorofluoromethane
Concen: 16.642 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:101 Resp: 5984

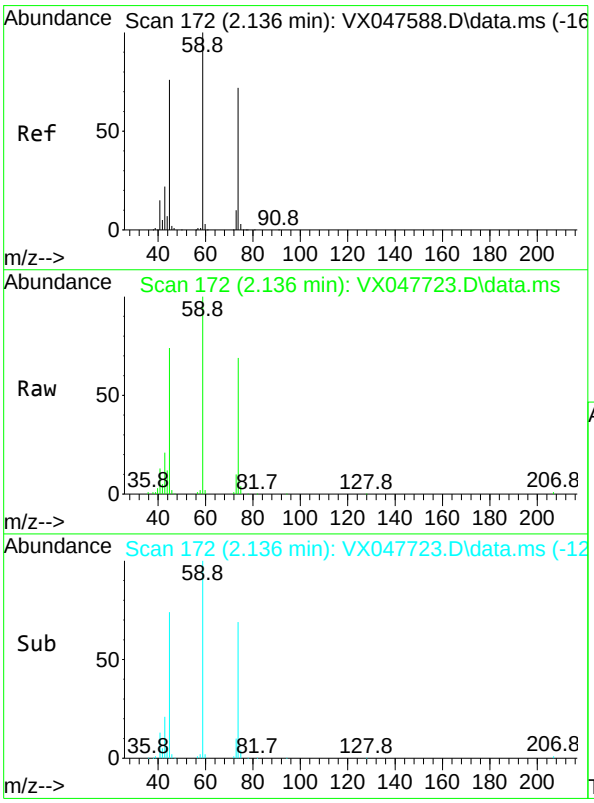
Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

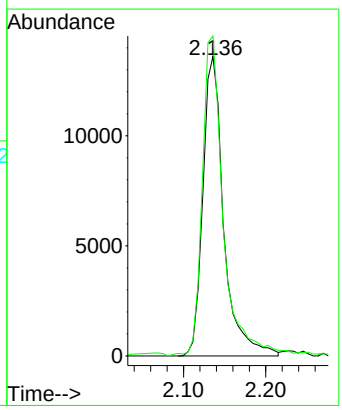
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

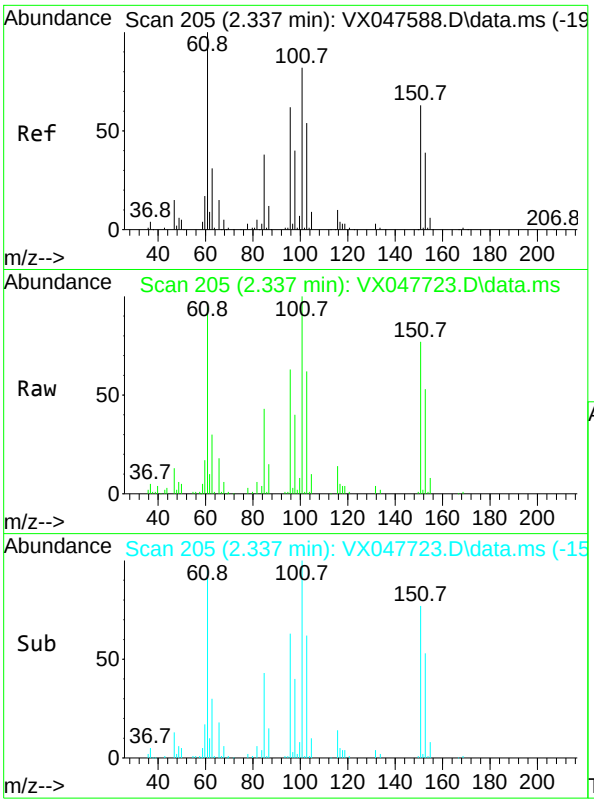


#8
Diethyl Ether
Concen: 16.330 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 74 Resp: 24021

Ion	Ratio	Lower	Upper
74	100		
45	108.1	52.3	156.8

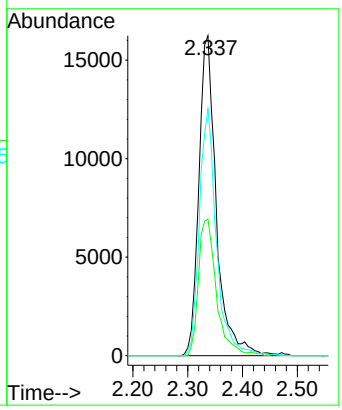




#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.109 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:101 Resp: 3597

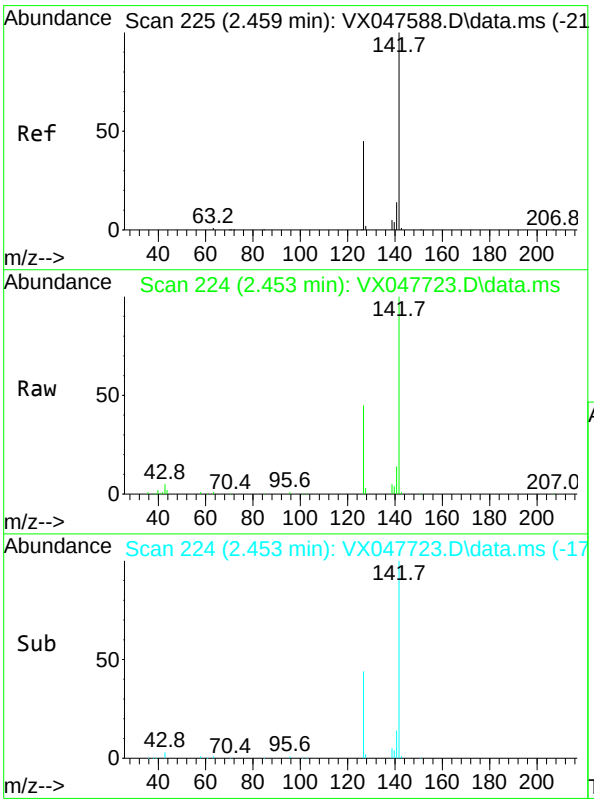
Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	75.1	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

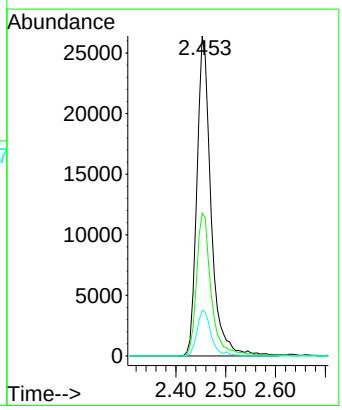
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

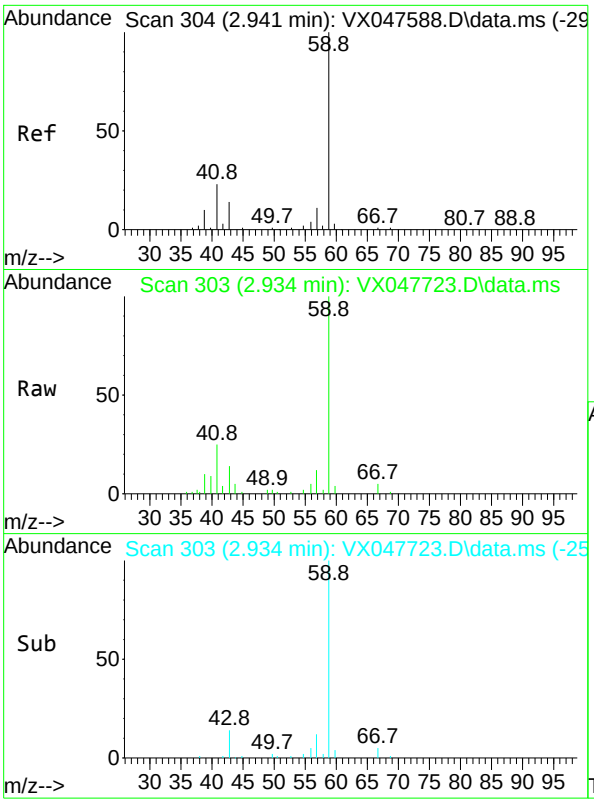


#10
Methyl Iodide
Concen: 15.841 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:142 Resp: 51945

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	14.3	11.4	17.0

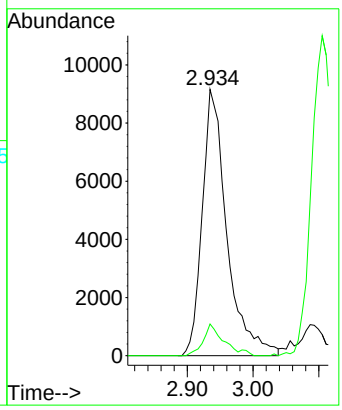




#11
Tert butyl alcohol
Concen: 74.010 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 59 Resp: 2385

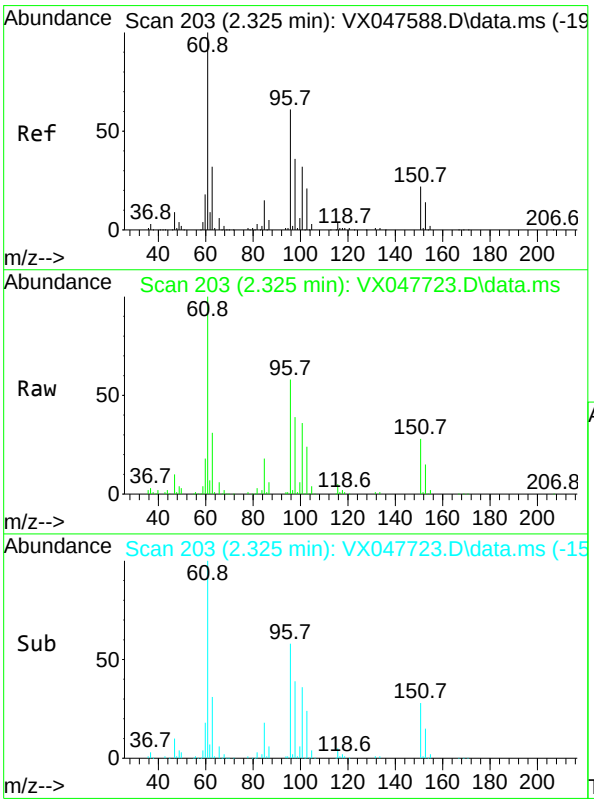
Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

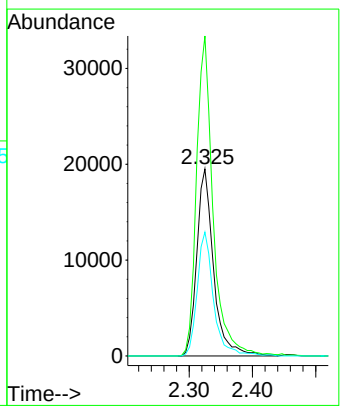
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

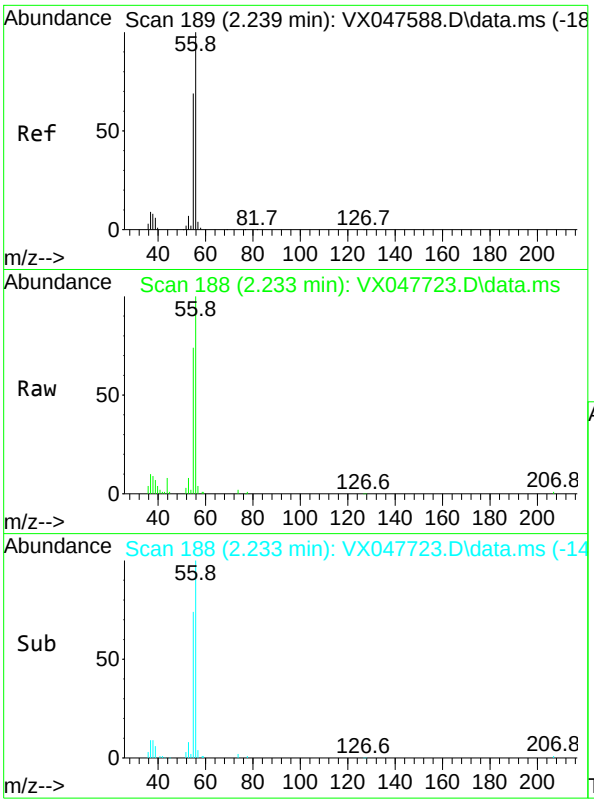


#12
1,1-Dichloroethene
Concen: 16.737 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 36148

Ion	Ratio	Lower	Upper
96	100		
61	171.1	131.0	196.6
98	66.2	47.7	71.5

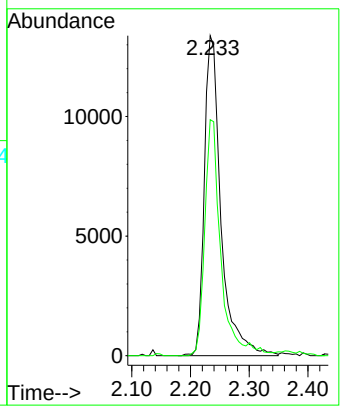




#13
Acrolein
Concen: 88.603 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 56 Resp: 2631

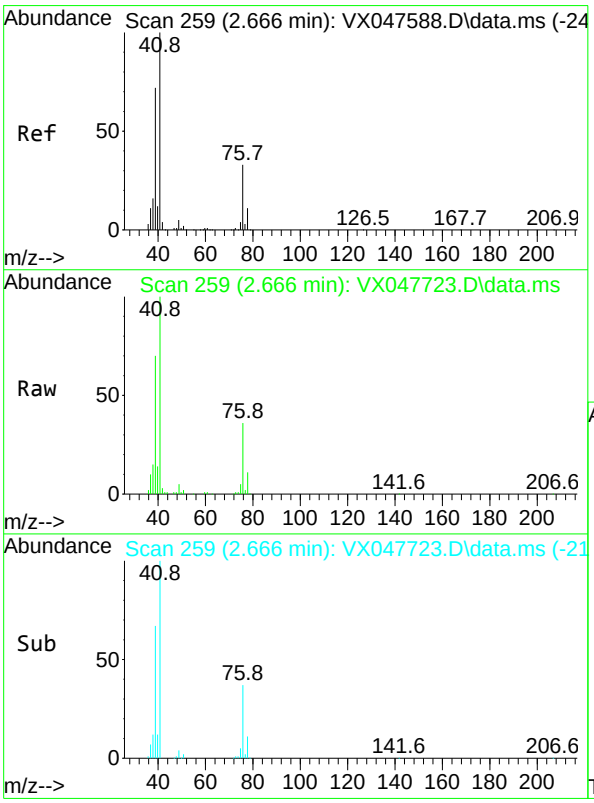
Ion	Ratio	Lower	Upper
56	100		
55	71.4	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

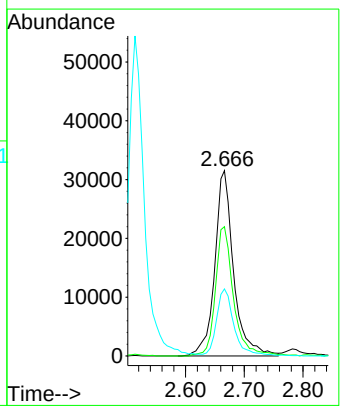
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

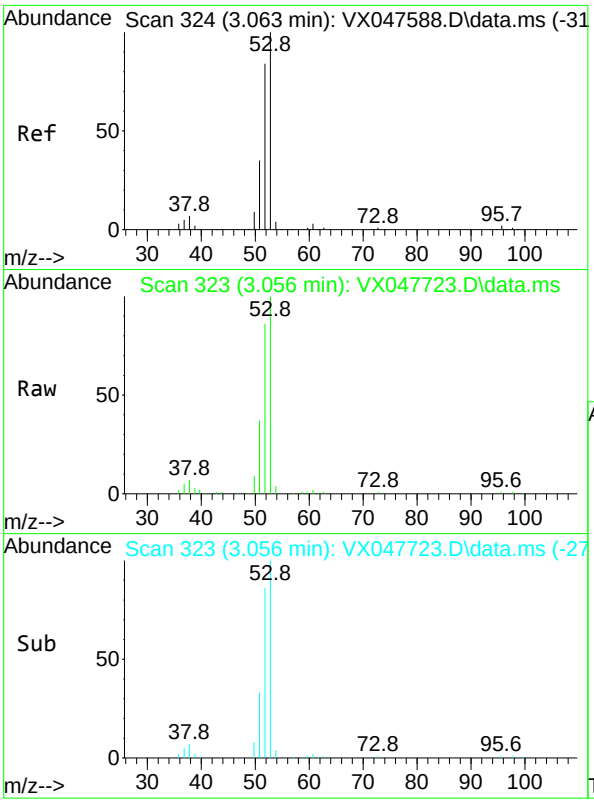


#14
Allyl chloride
Concen: 15.738 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 70142

Ion	Ratio	Lower	Upper
41	100		
39	67.1	54.7	82.1
76	33.8	25.7	38.5

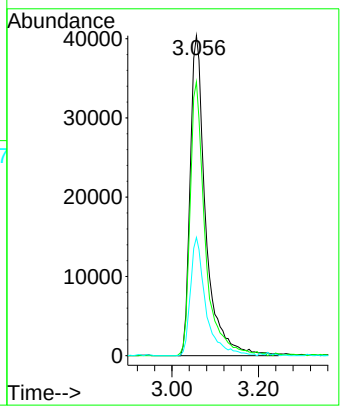




#15
Acrylonitrile
Concen: 84.401 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 53 Resp: 10075

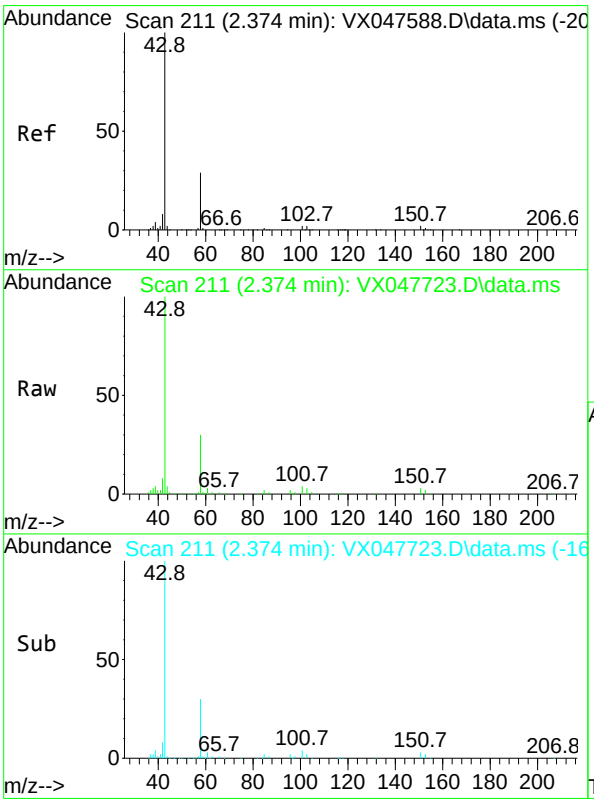
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.7	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

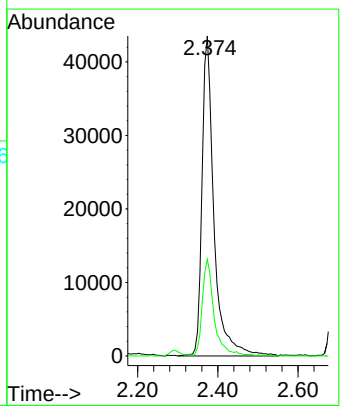
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

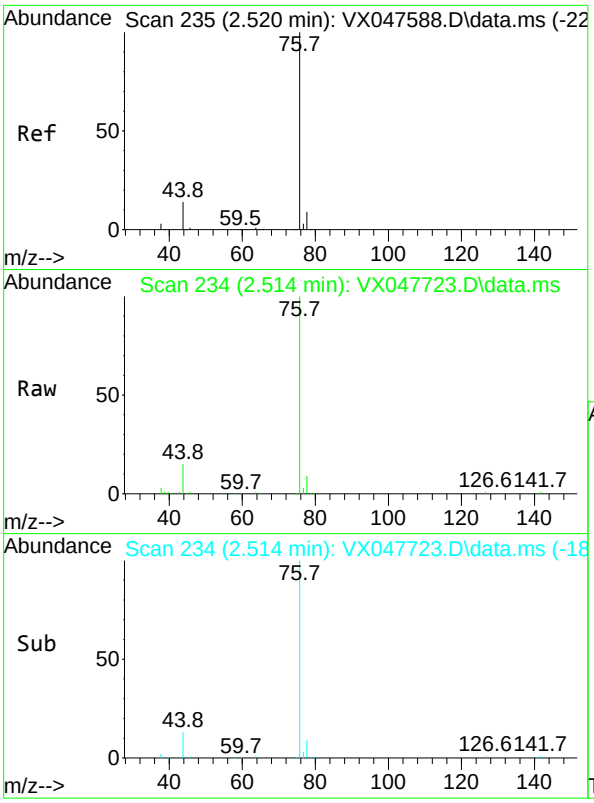


#16
Acetone
Concen: 71.706 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 90216

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.4	35.0

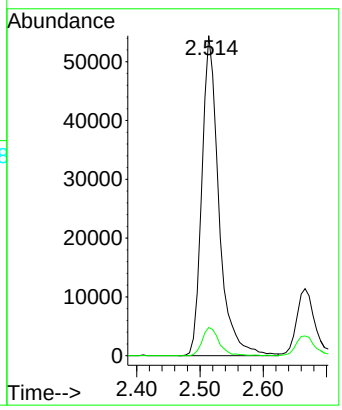




#17
Carbon Disulfide
Concen: 17.244 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 76 Resp: 10195

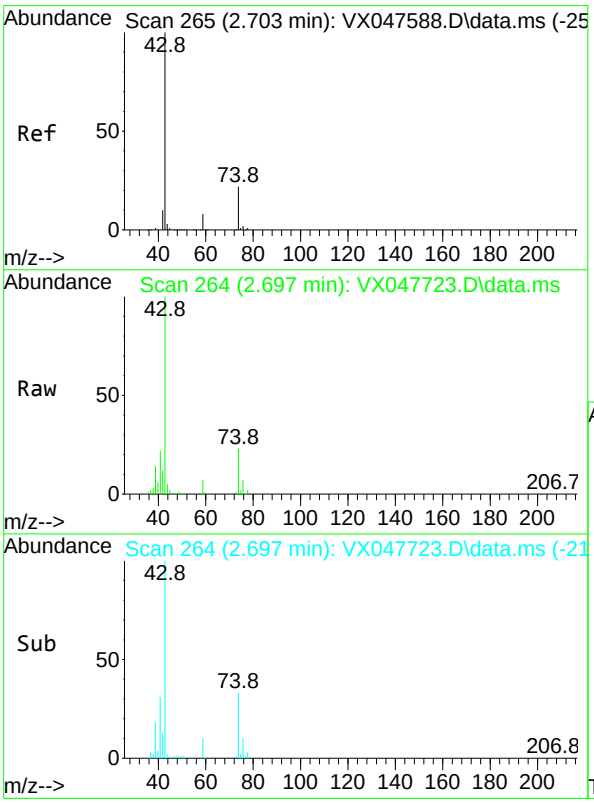
Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

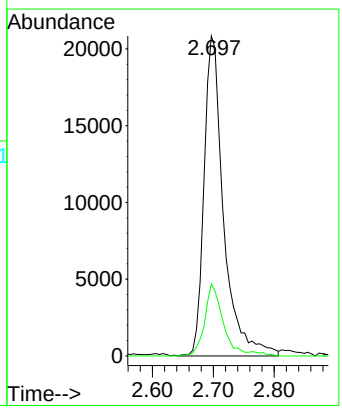
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

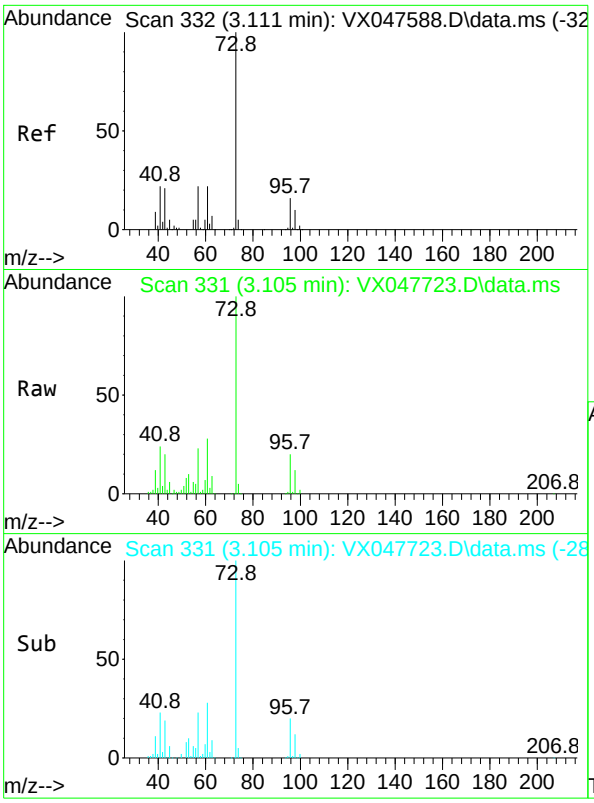


#18
Methyl Acetate
Concen: 16.621 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 46539

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.4	26.2

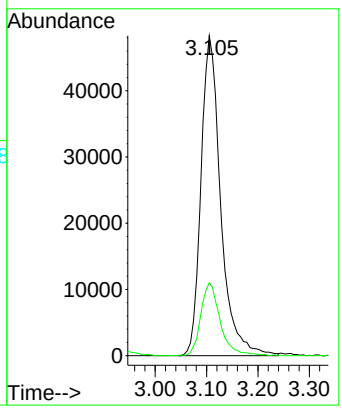




#19
Methyl tert-butyl Ether
Concen: 16.310 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 73 Resp: 12859

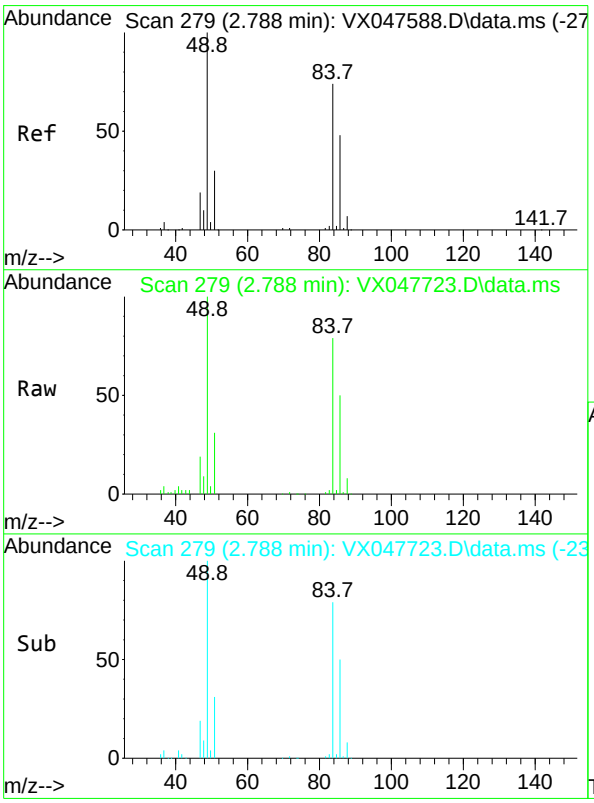
Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

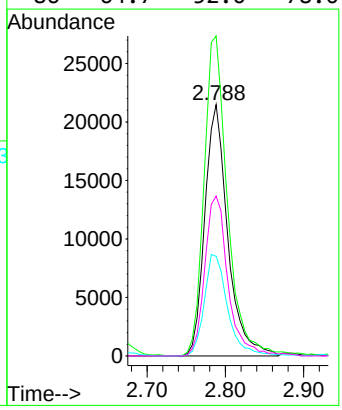
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

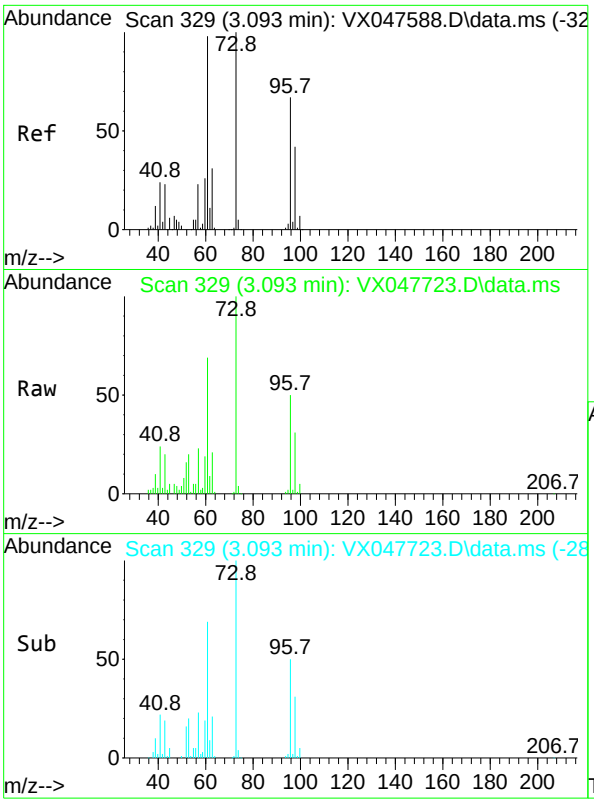


#20
Methylene Chloride
Concen: 16.413 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 84 Resp: 43710

Ion	Ratio	Lower	Upper
84	100		
49	127.3	108.6	162.8
51	39.7	32.6	48.8
86	64.7	52.0	78.0

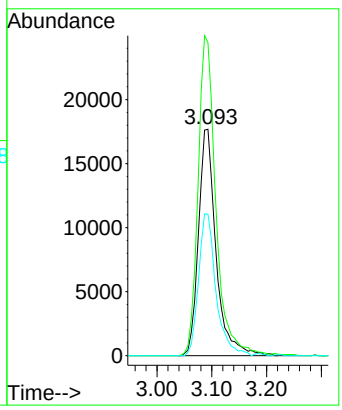




#21
trans-1,2-Dichloroethene
Concen: 16.950 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 3941

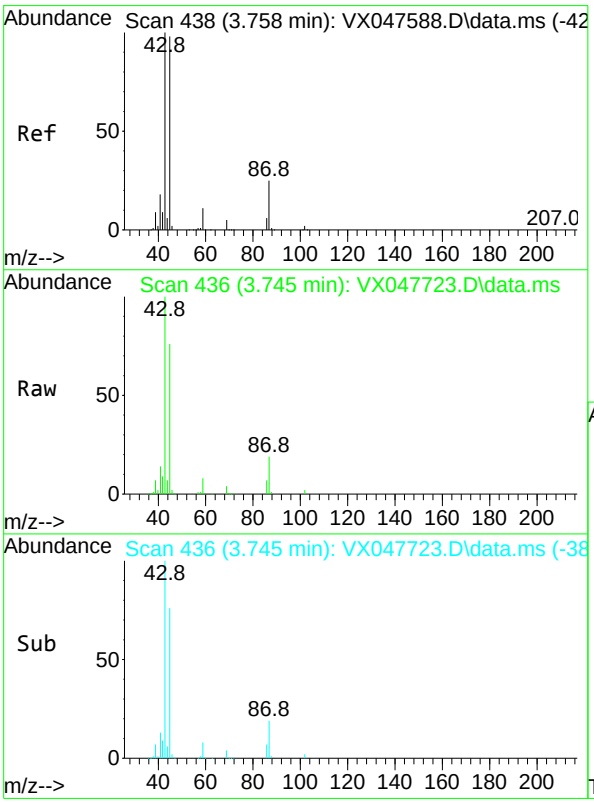
Ion	Ratio	Lower	Upper
96	100		
61	138.3	116.2	174.2
98	62.5	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

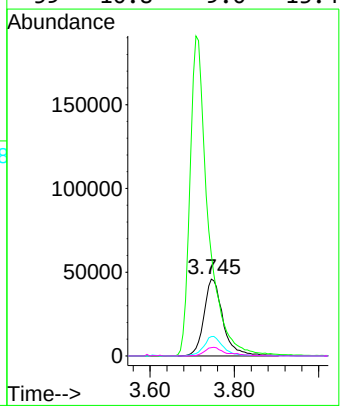
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

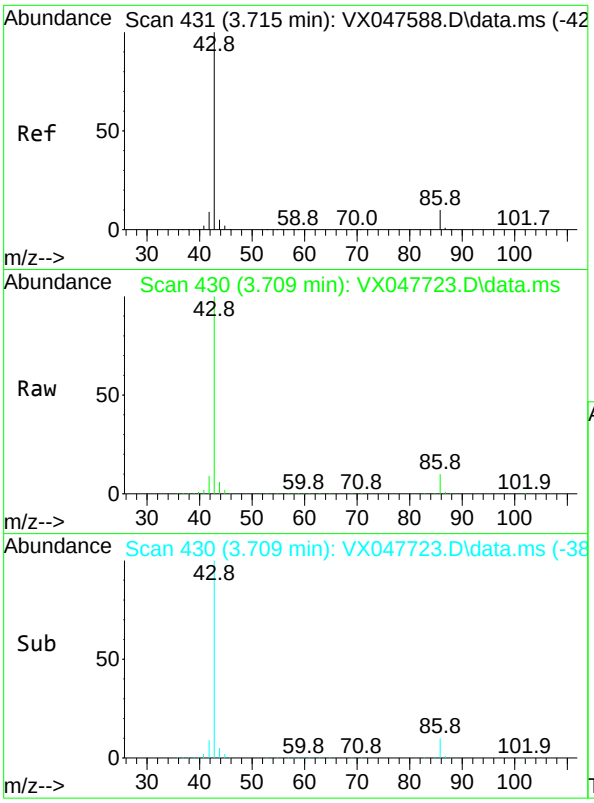


#22
Diisopropyl ether
Concen: 16.712 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 45 Resp: 144354

Ion	Ratio	Lower	Upper
45	100		
43	130.4	81.0	121.4#
87	25.2	20.3	30.5
59	10.8	9.0	13.4

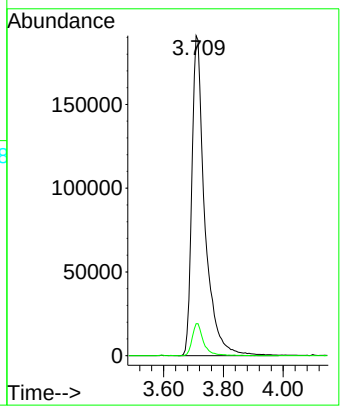




#23
Vinyl Acetate
Concen: 83.195 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 57512

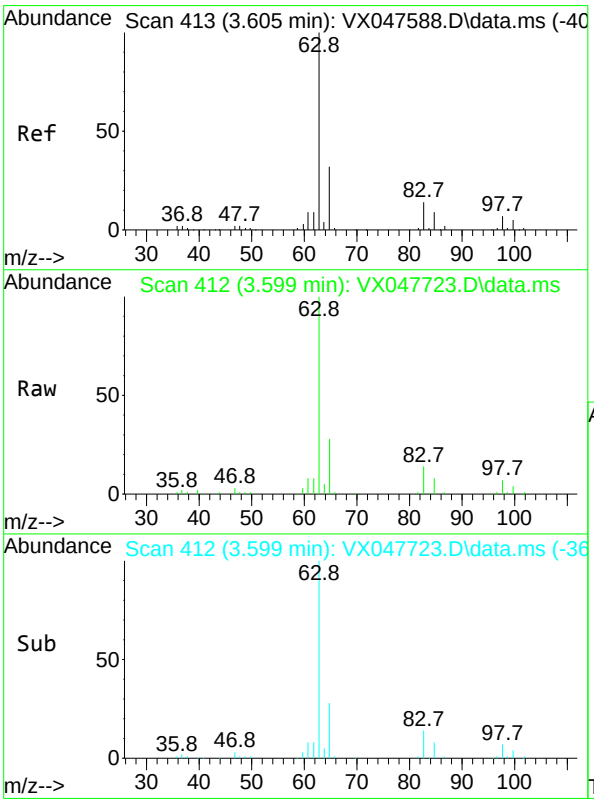
Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

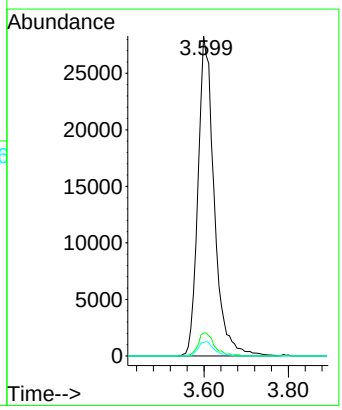
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

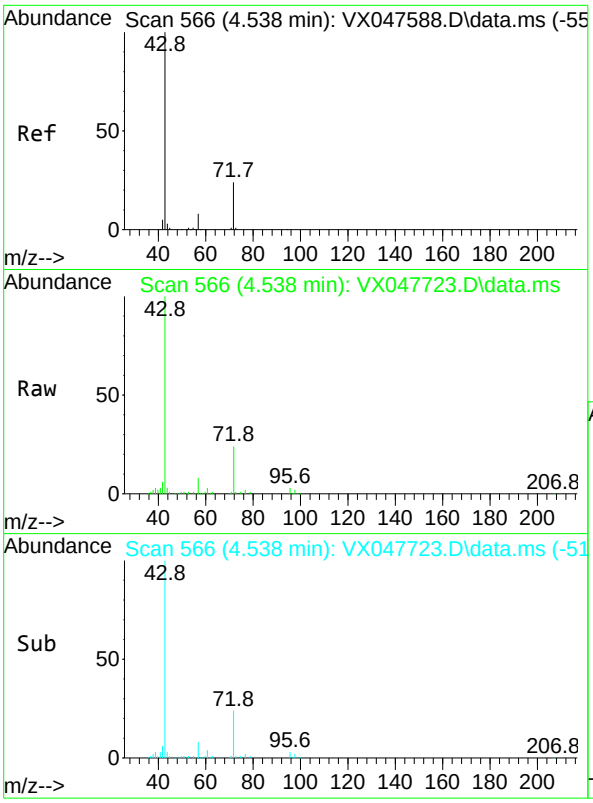


#24
1,1-Dichloroethane
Concen: 16.495 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 75728

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.8	11.2
100	4.2	2.3	6.9

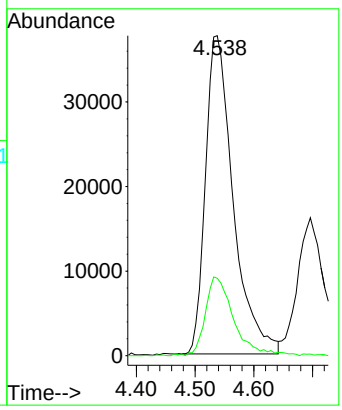




#25
2-Butanone
Concen: 78.705 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 12351

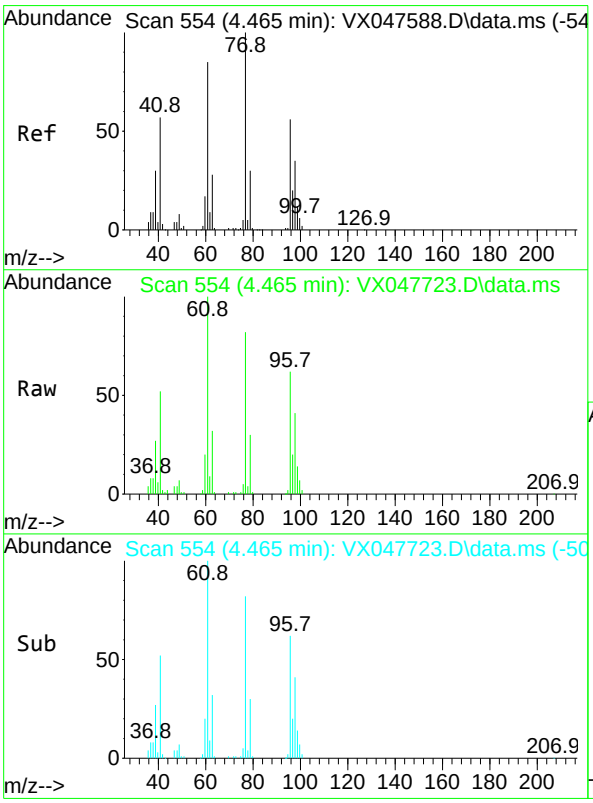
Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

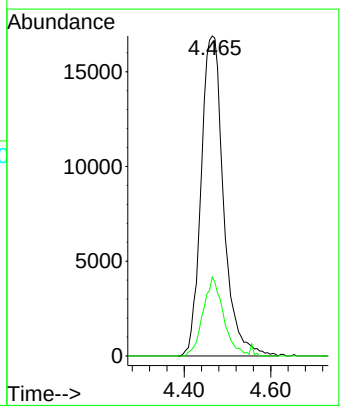
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

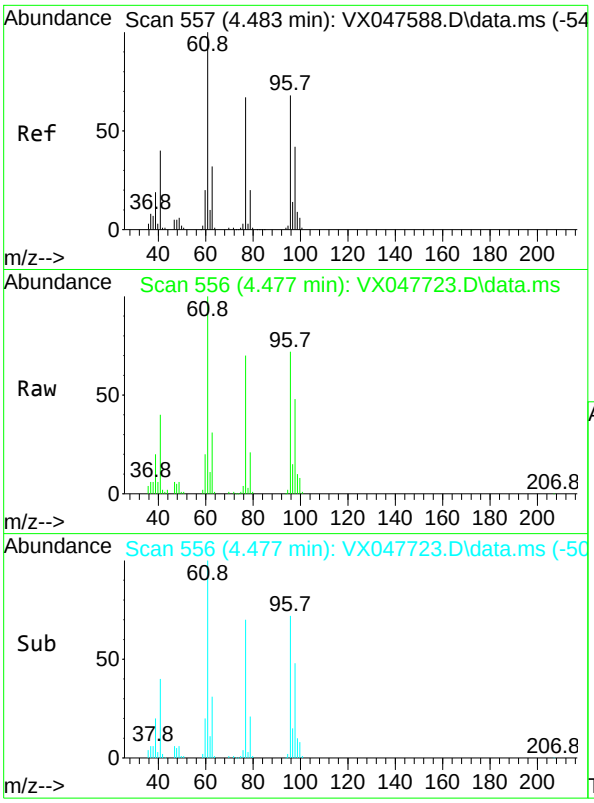


#26
2,2-Dichloropropane
Concen: 15.910 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 77 Resp: 60715

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7

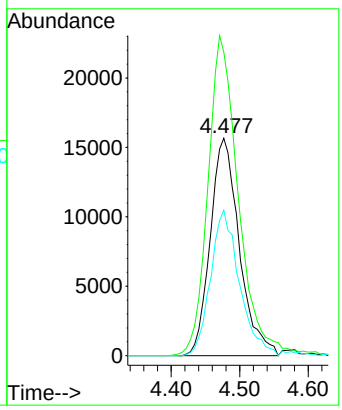




#27
cis-1,2-Dichloroethene
Concen: 16.177 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 4606

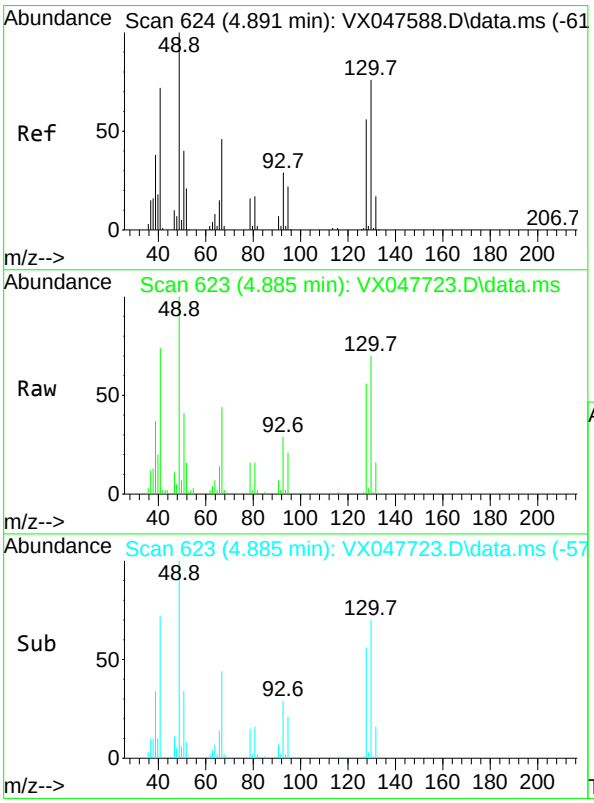
Ion	Ratio	Lower	Upper
96	100		
61	155.1	0.0	303.2
98	66.4	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

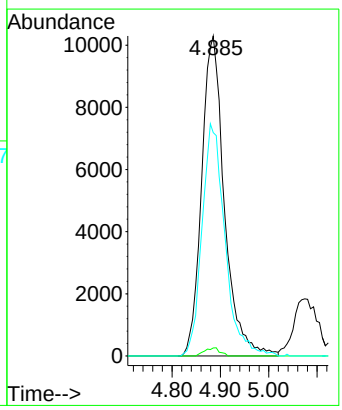
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

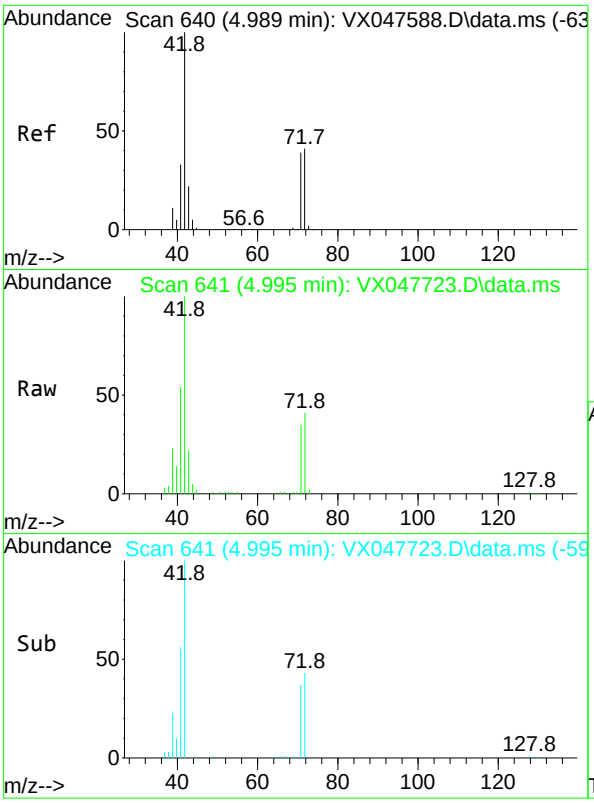


#28
Bromochloromethane
Concen: 16.807 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 49 Resp: 33685

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	73.4	57.8	86.8

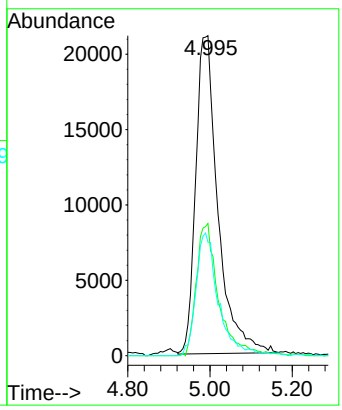




#29
Tetrahydrofuran
Concen: 83.826 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 42 Resp: 7914

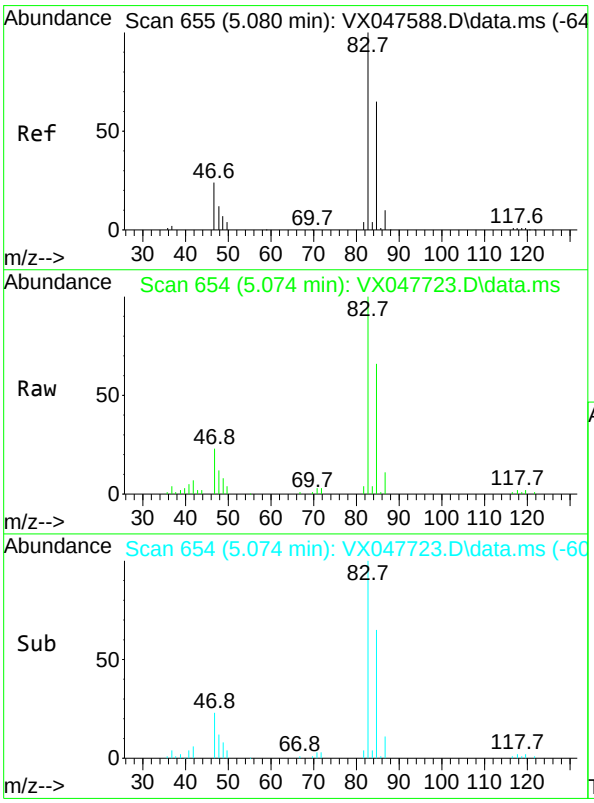
Ion	Ratio	Lower	Upper
42	100		
72	41.4	34.2	51.2
71	38.8	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

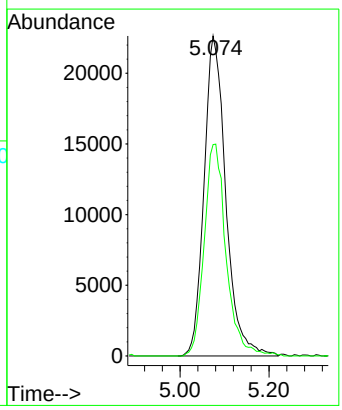
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

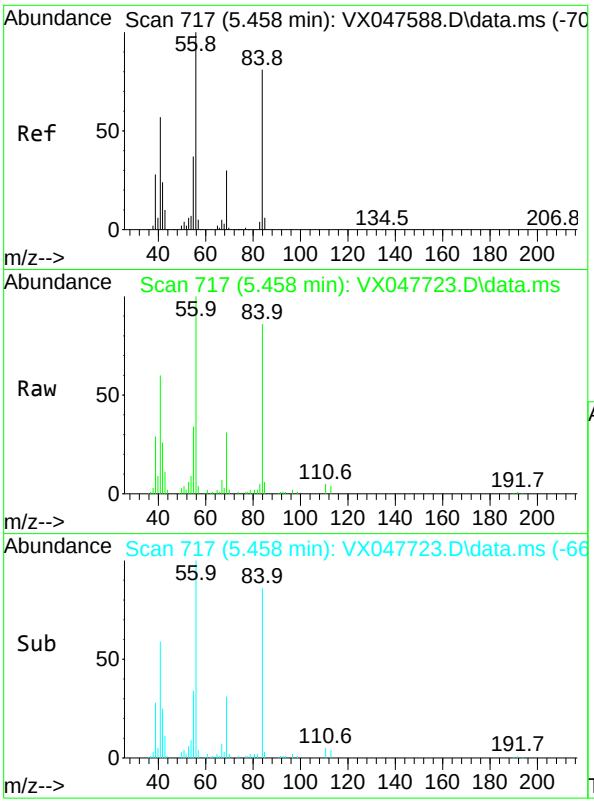


#30
Chloroform
Concen: 16.618 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 77095

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6

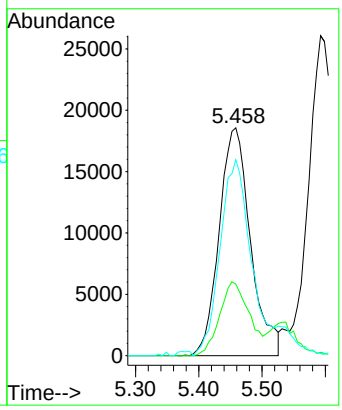




#31
Cyclohexane
Concen: 16.688 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 56 Resp: 6380

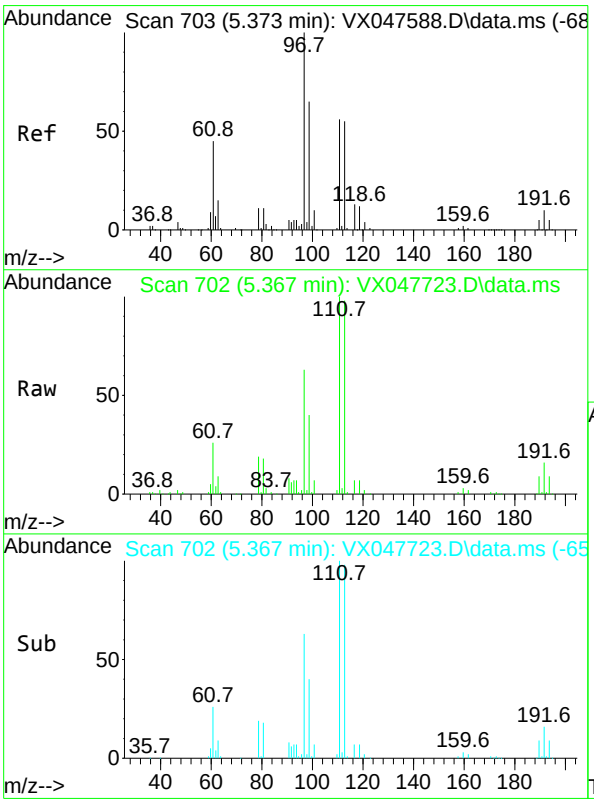
Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.8	35.8
84	84.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

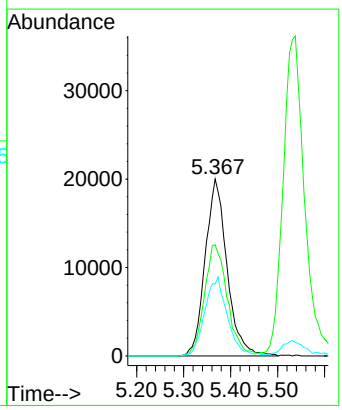
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

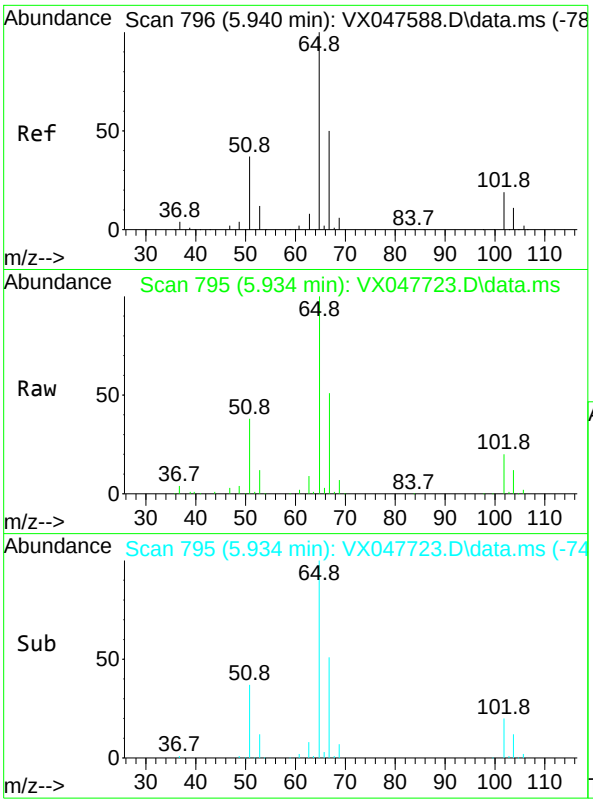


#32
1,1,1-Trichloroethane
Concen: 16.421 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 97 Resp: 64618

Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.6	76.0
61	45.9	35.8	53.8

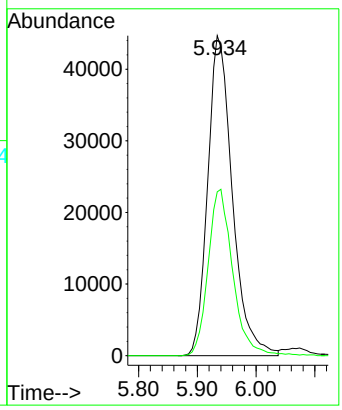




#33
1,2-Dichloroethane-d4
Concen: 44.983 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 65 Resp: 13016

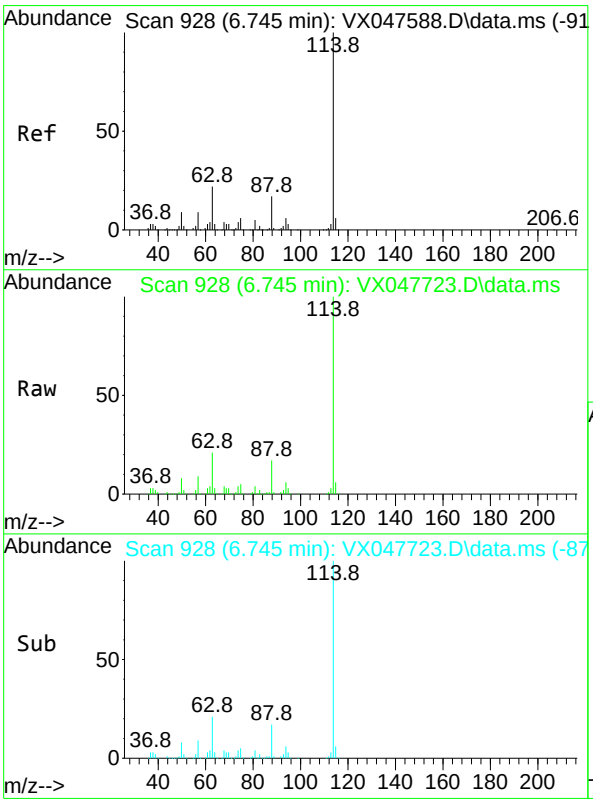
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

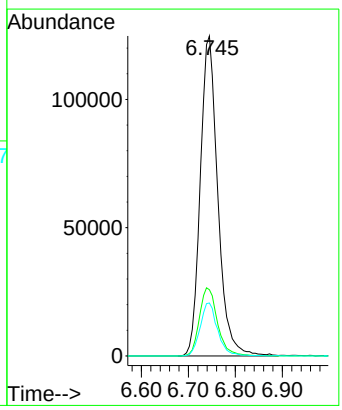
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

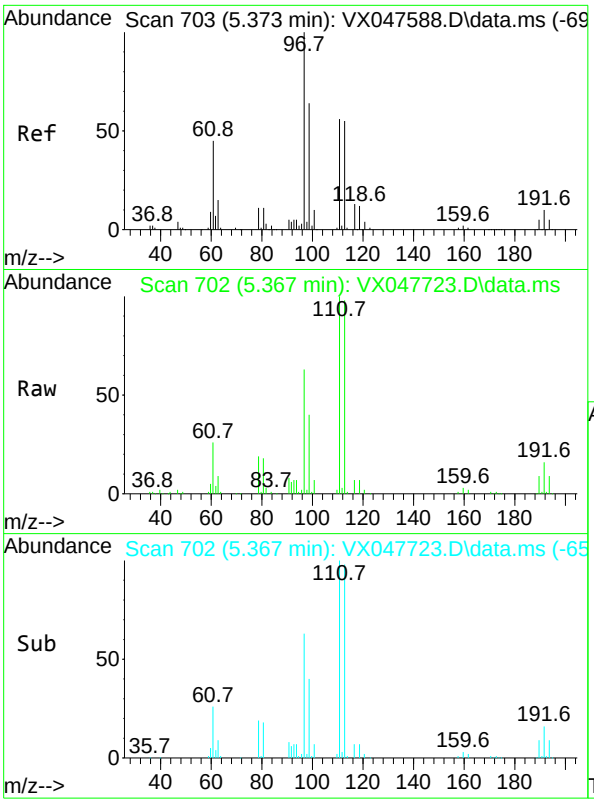


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:114 Resp: 322664

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	16.5	0.0	34.2

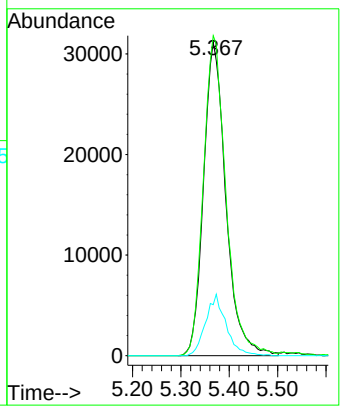




#35
Dibromofluoromethane
Concen: 46.149 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:113 Resp: 9986

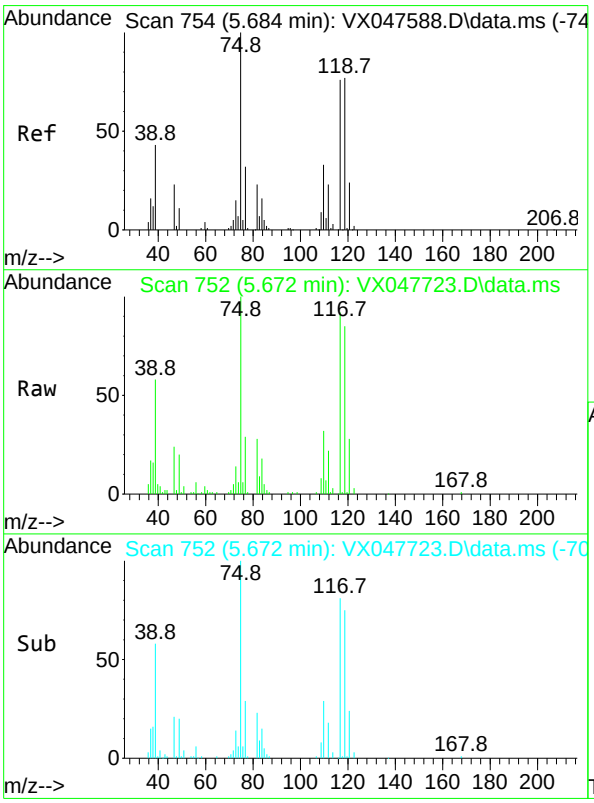
Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	18.0	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

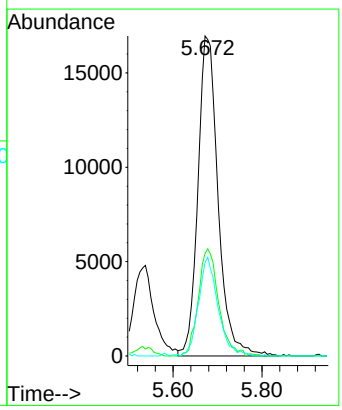
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

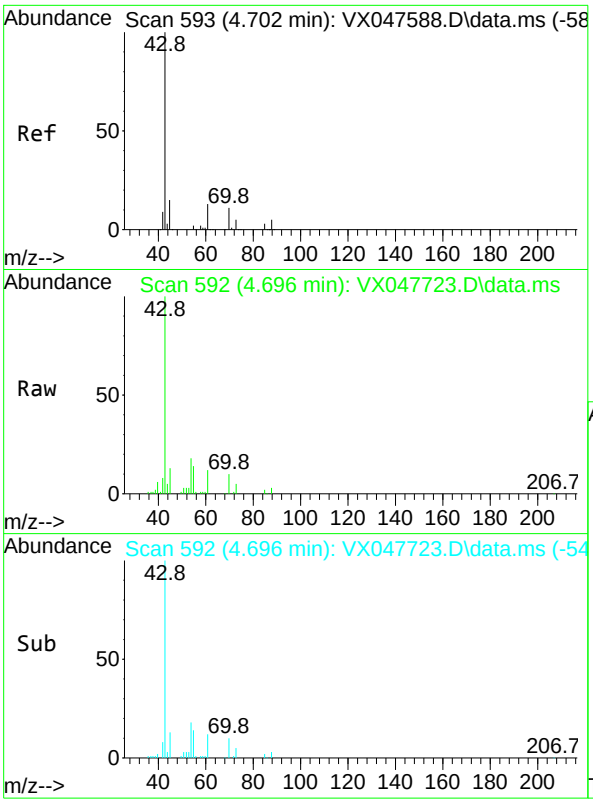


#36
1,1-Dichloropropene
Concen: 16.949 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 53594

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.7	50.1
77	29.8	24.3	36.5





#37
Ethyl Acetate
Concen: 15.743 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

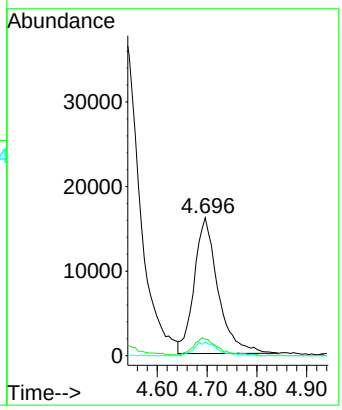
Tgt Ion: 43 Resp: 5330

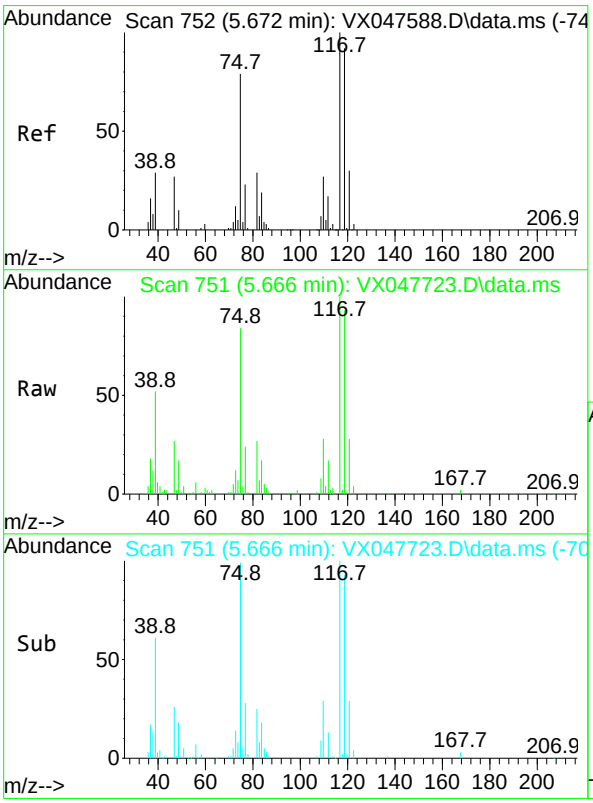
Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	10.0	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

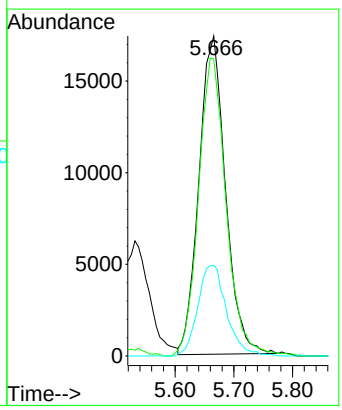


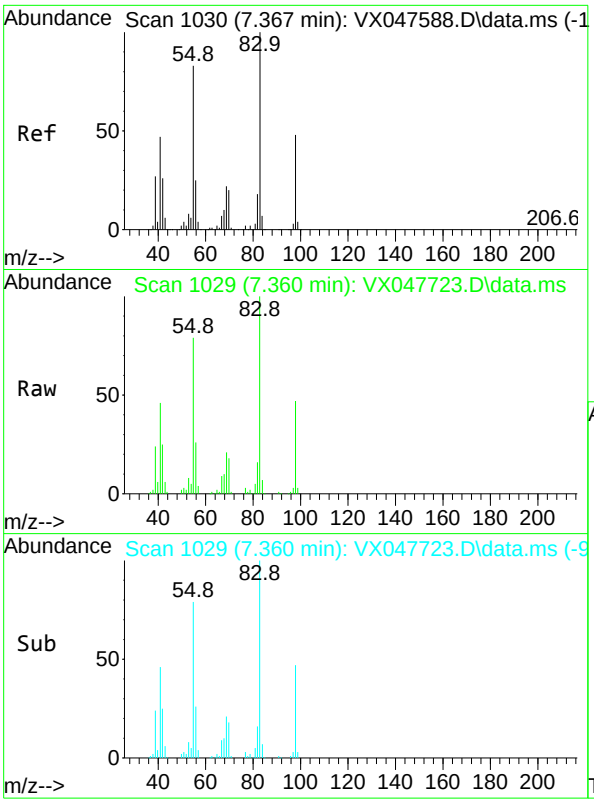


#38
Carbon Tetrachloride
Concen: 15.922 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 54702

Ion	Ratio	Lower	Upper
117	100		
119	92.9	73.4	110.2
121	28.6	23.8	35.6

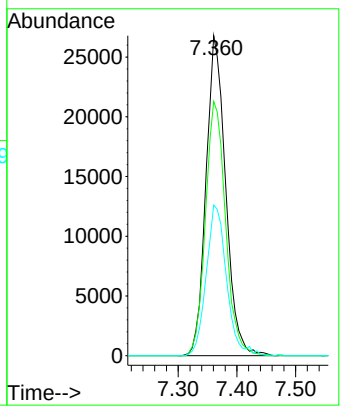




#39
Methylcyclohexane
Concen: 17.344 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 6225

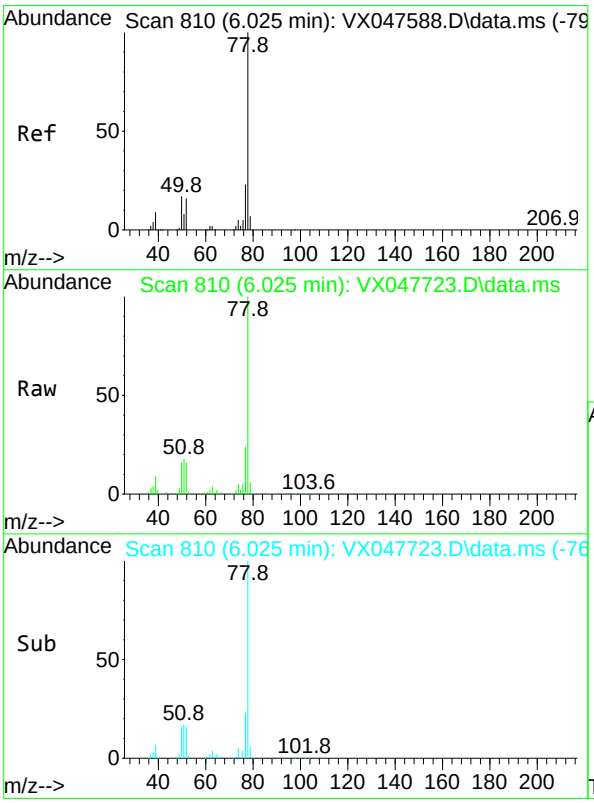
Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.4	99.6
98	47.1	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

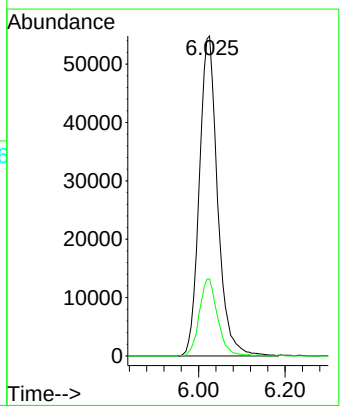
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

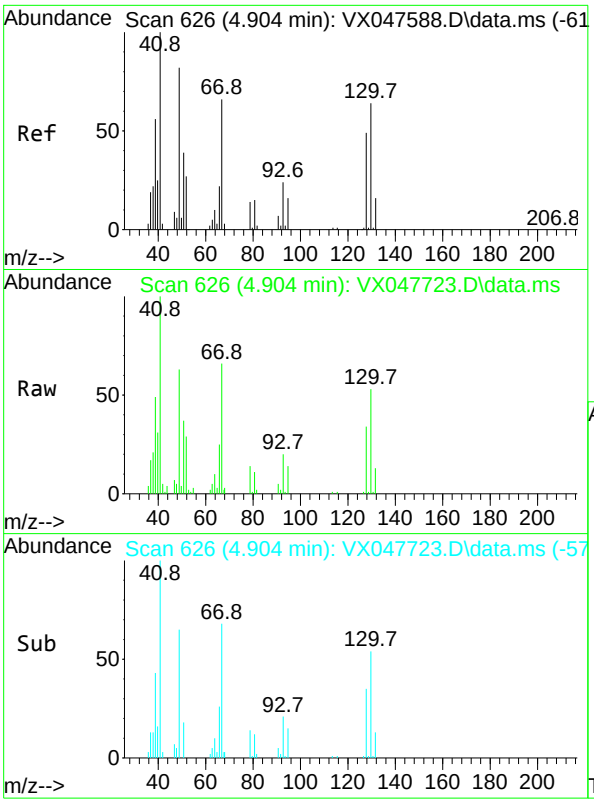


#40
Benzene
Concen: 16.697 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 78 Resp: 160358

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2

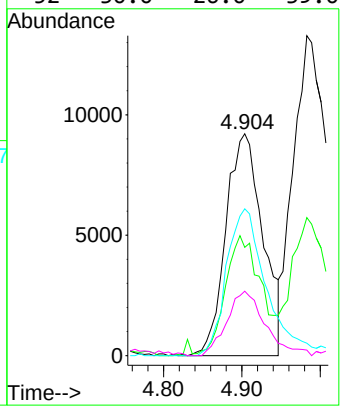




#41
Methacrylonitrile
Concen: 17.365 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 3035

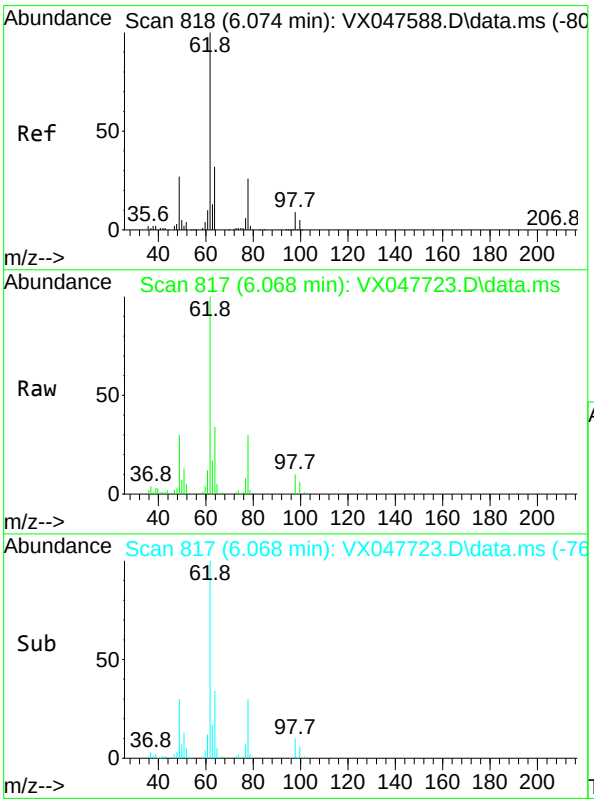
Ion	Ratio	Lower	Upper
41	100		
39	50.0	43.3	64.9
67	70.6	58.6	87.8
52	30.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

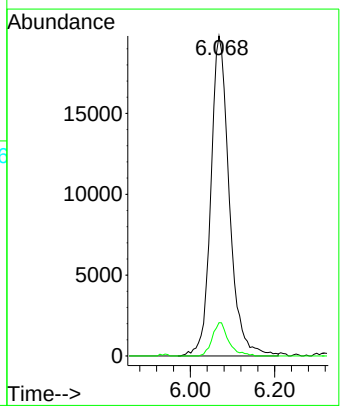
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

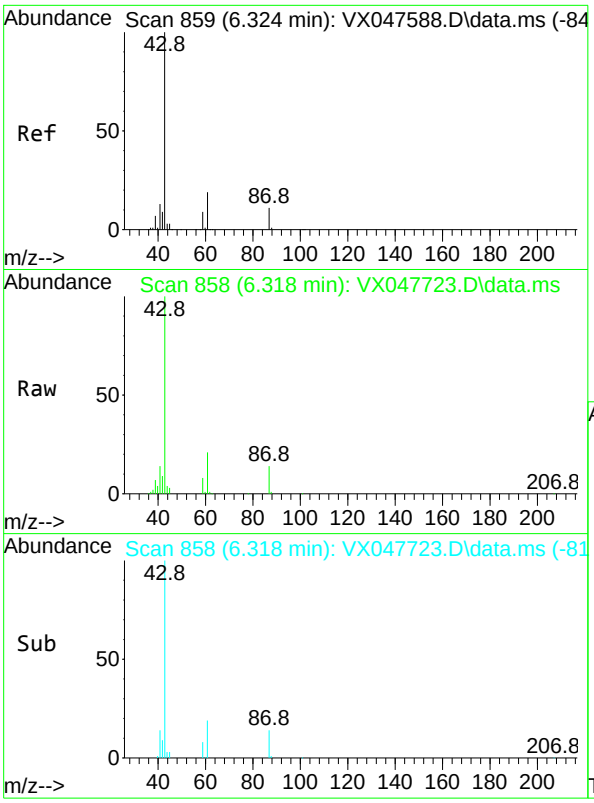


#42
1,2-Dichloroethane
Concen: 16.455 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 60128

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0

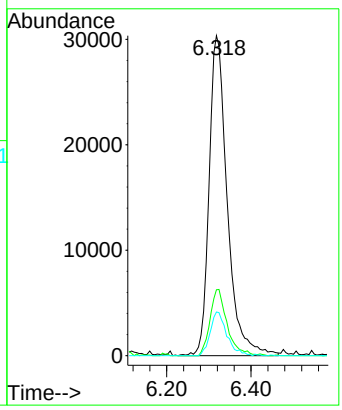




#43
Isopropyl Acetate
Concen: 16.367 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 9088

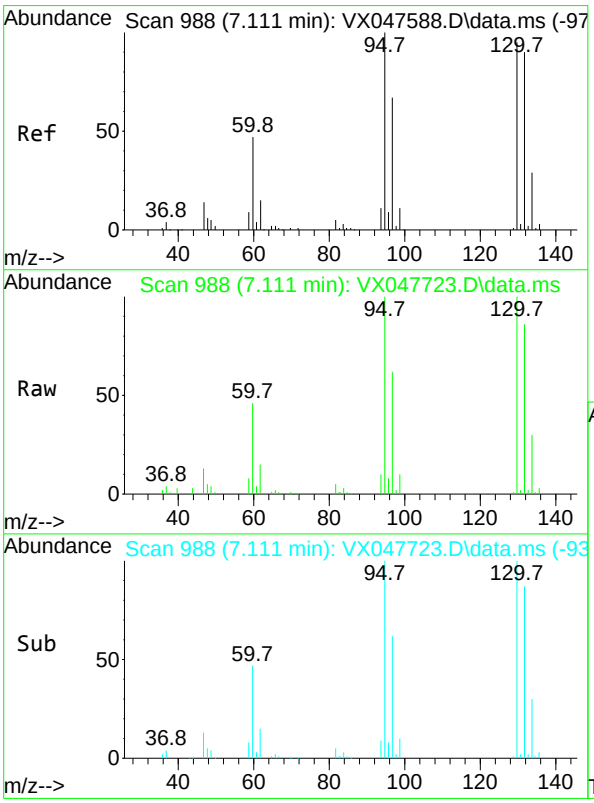
Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.5	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

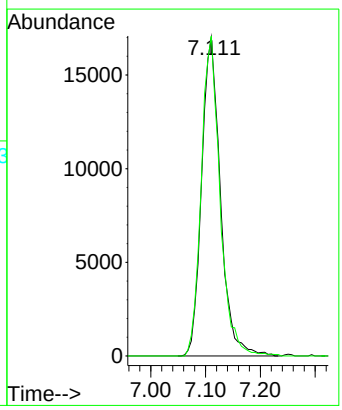
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

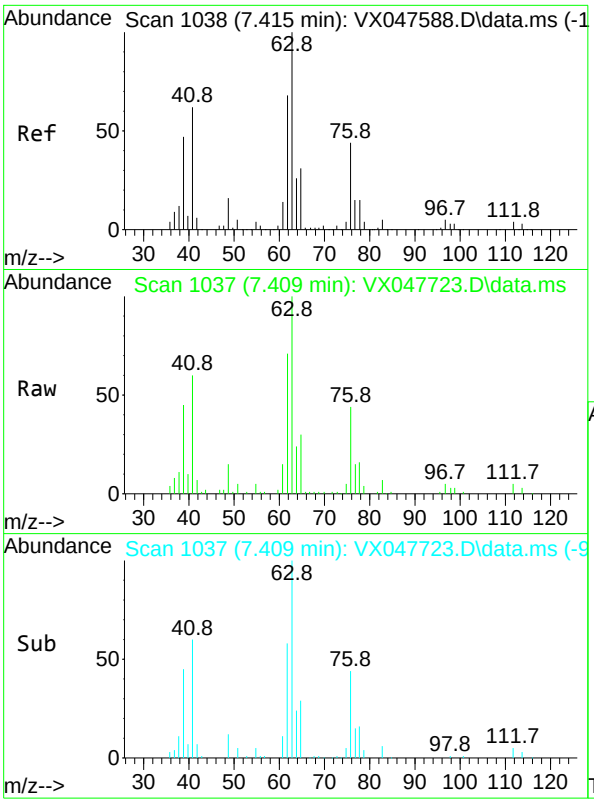


#44
Trichloroethene
Concen: 17.464 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:130 Resp: 40550

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	210.8

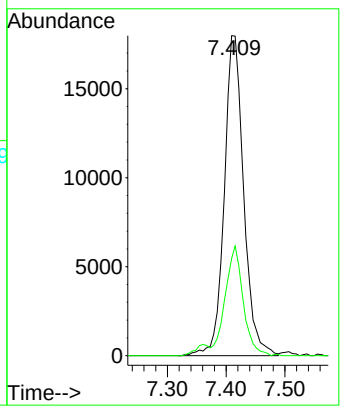




#45
1,2-Dichloropropane
Concen: 16.811 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 4134

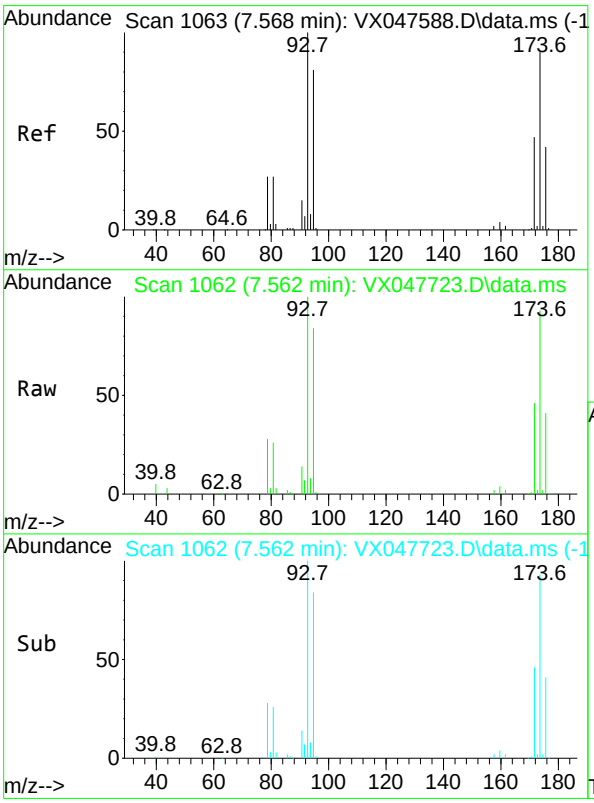
Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

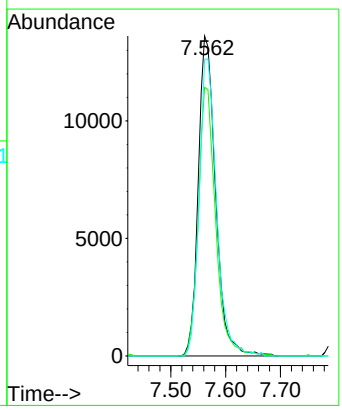
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

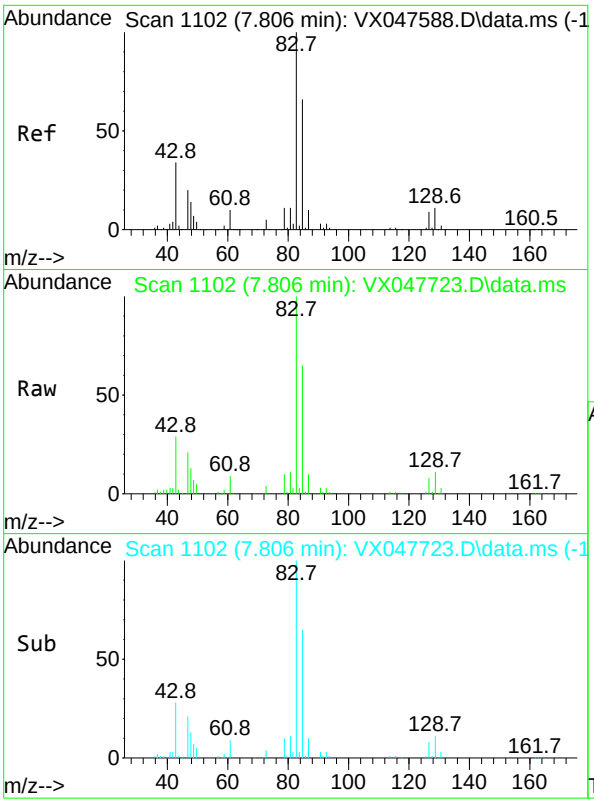


#46
Dibromomethane
Concen: 16.746 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 93 Resp: 29969

Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.0	97.6
174	93.4	71.6	107.4

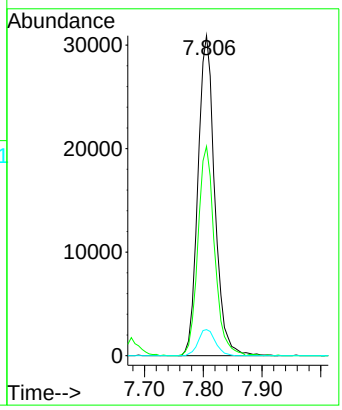




#47
Bromodichloromethane
Concen: 16.577 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 6121

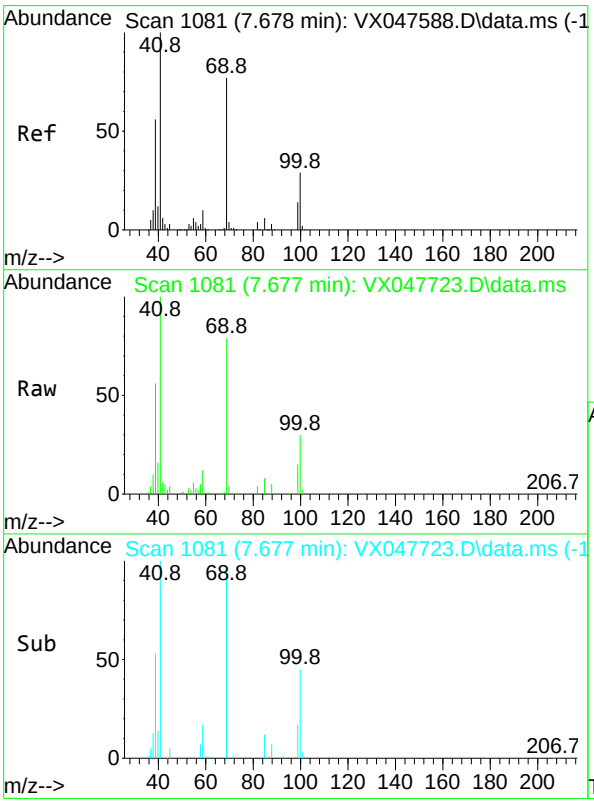
Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

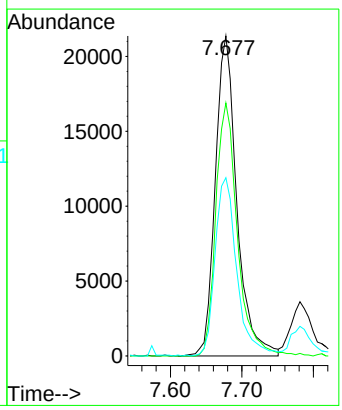
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

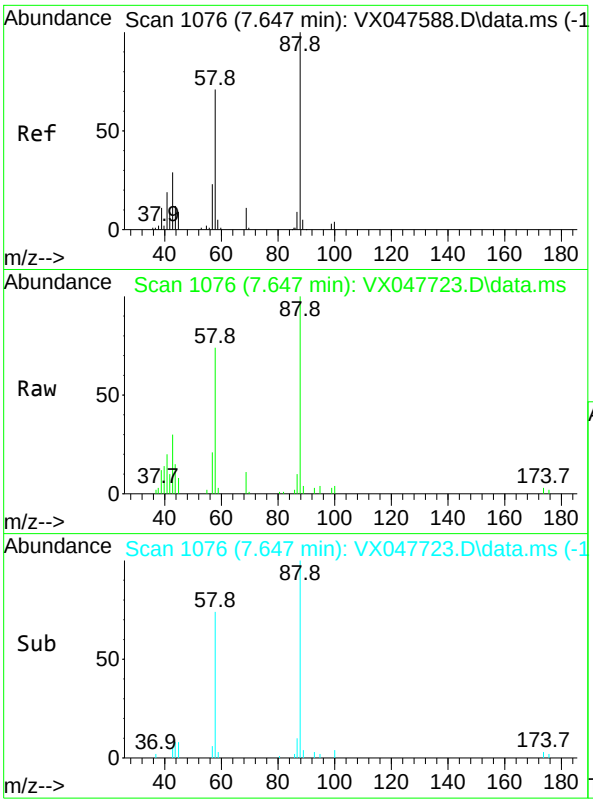


#48
Methyl methacrylate
Concen: 16.166 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 44713

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	56.3	45.8	68.6

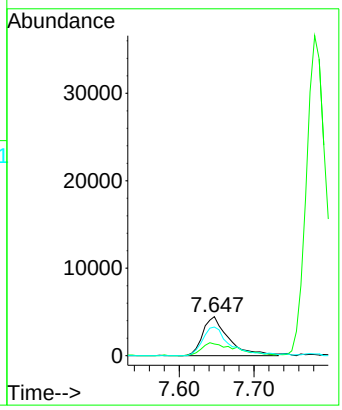




#49
1,4-Dioxane
Concen: 382.549 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 88 Resp: 1069

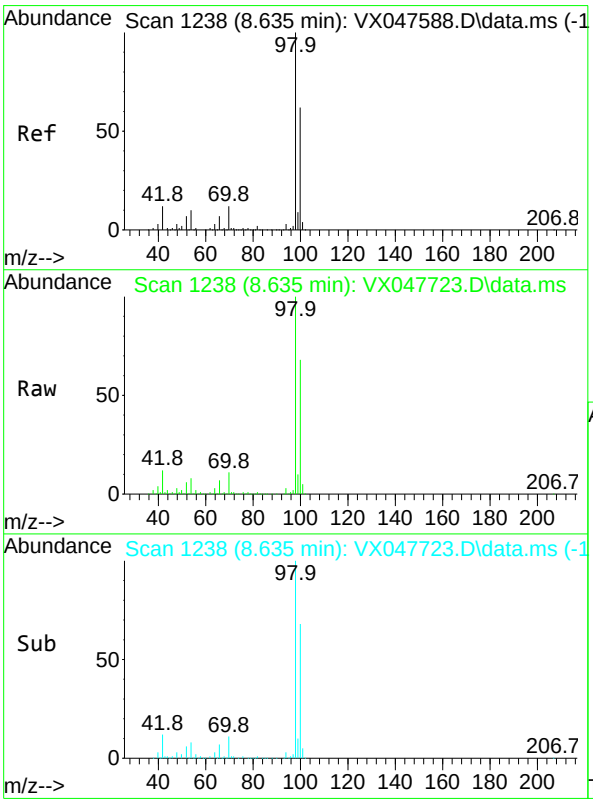
Ion	Ratio	Lower	Upper
88	100		
43	45.0	30.2	45.2
58	76.6	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

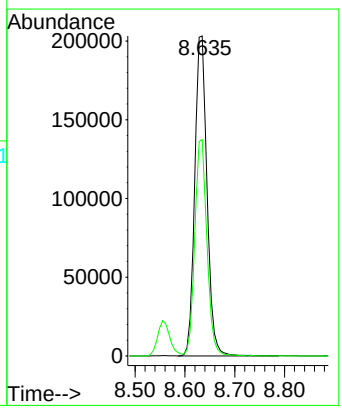
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

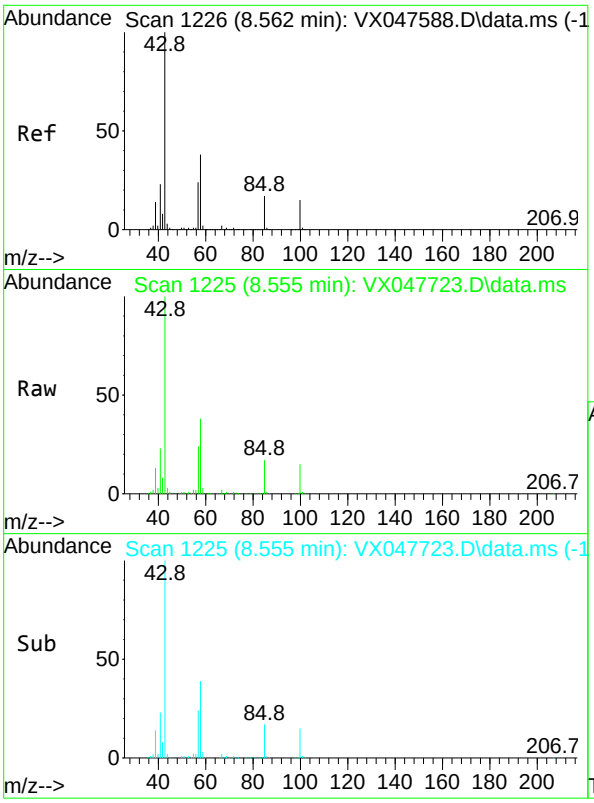


#50
Toluene-d8
Concen: 46.366 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 98 Resp: 347178

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.0	79.4

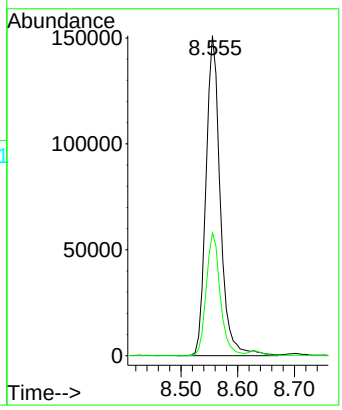




#51
4-Methyl-2-Pentanone
Concen: 85.968 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 26466

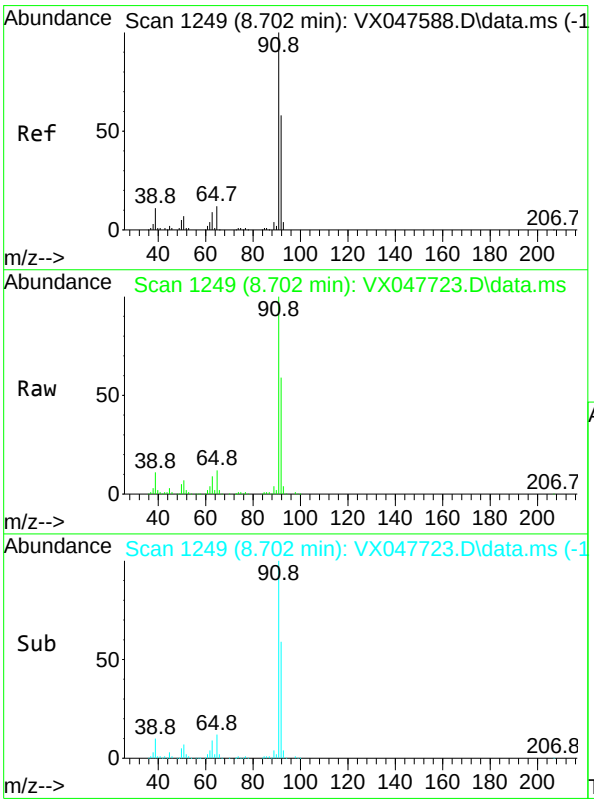
Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

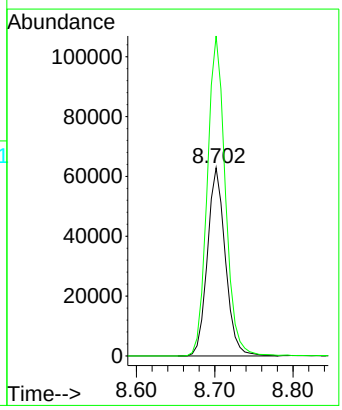
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

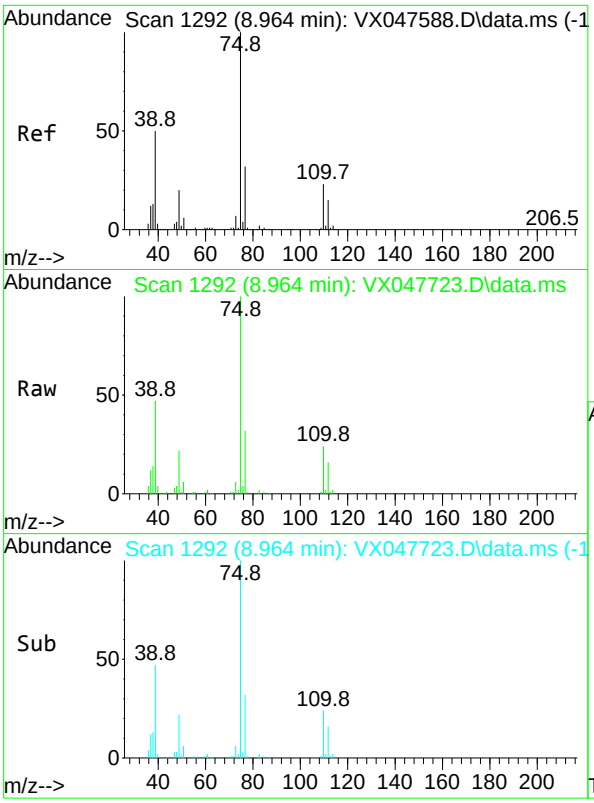


#52
Toluene
Concen: 16.863 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 92 Resp: 99779

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.1	205.7

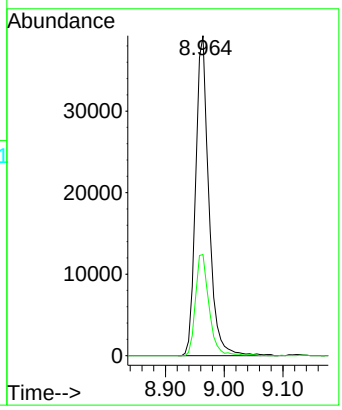




#53
t-1,3-Dichloropropene
Concen: 16.298 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 6139

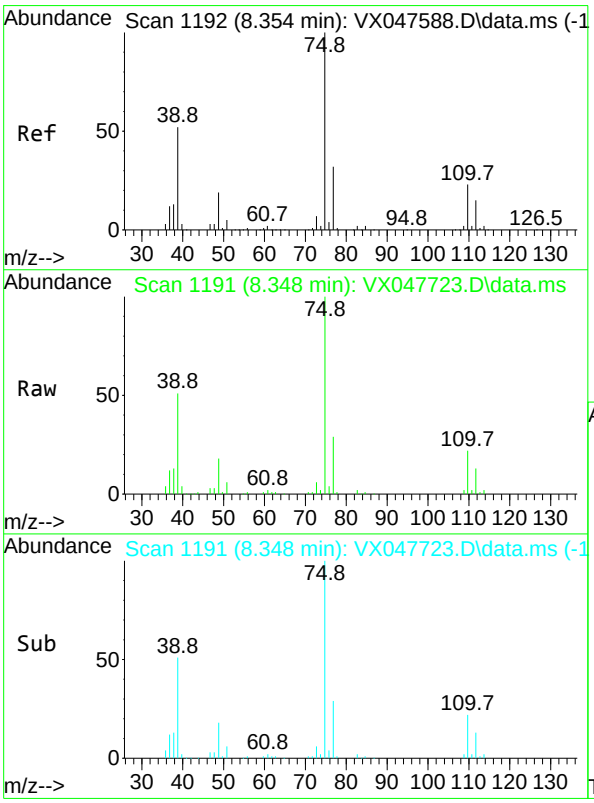
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

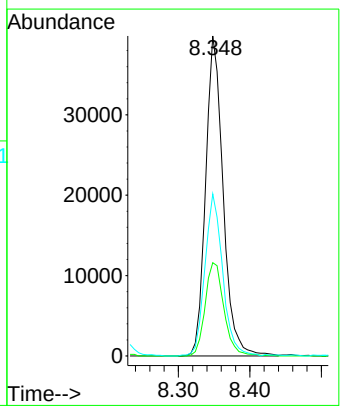
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

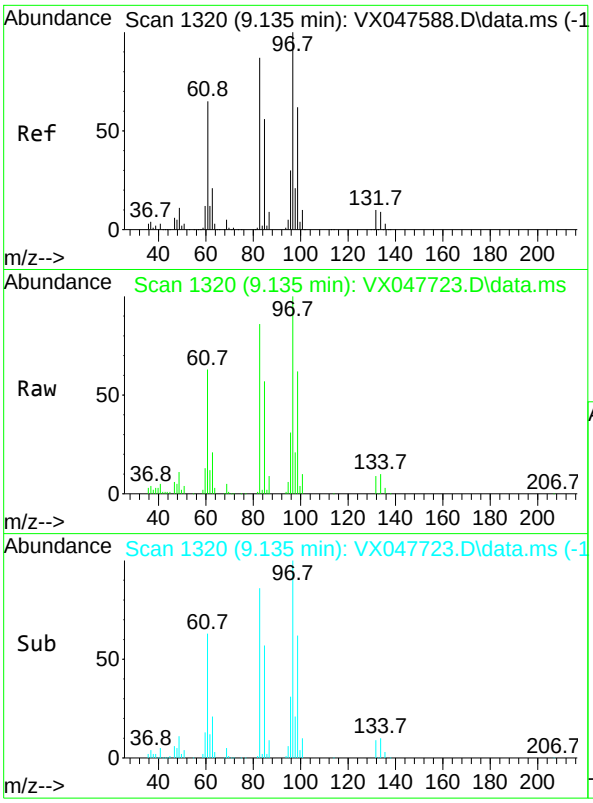


#54
cis-1,3-Dichloropropene
Concen: 16.810 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 67677

Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.8	38.6
39	50.6	41.4	62.2

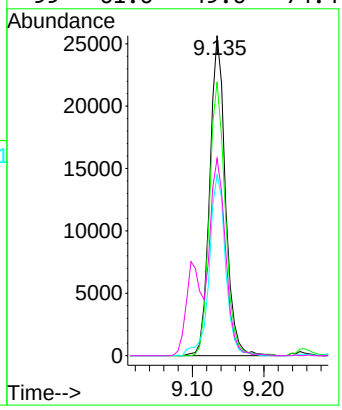




#55
1,1,2-Trichloroethane
Concen: 17.151 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 97 Resp: 3913

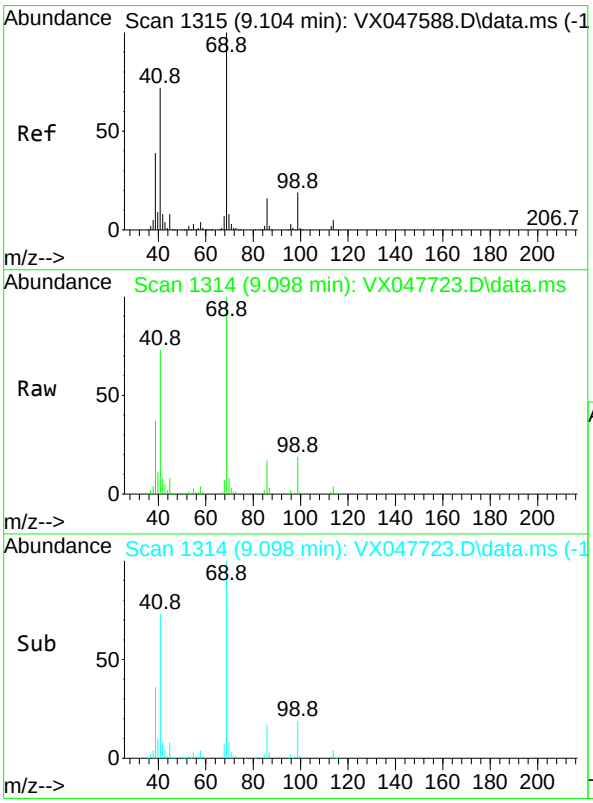
Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	56.5	45.0	67.6
99	61.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

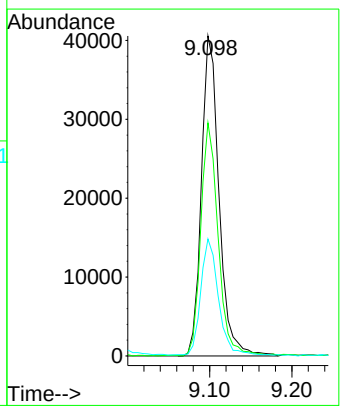
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

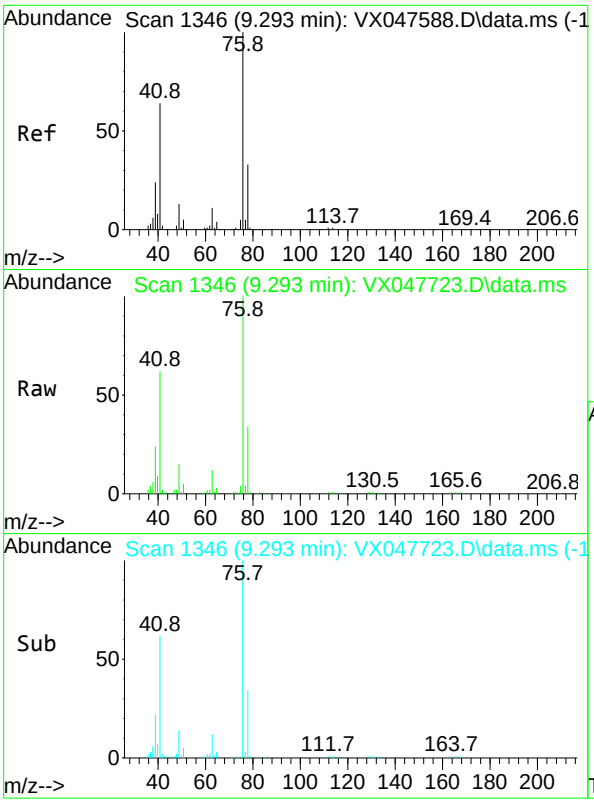


#56
Ethyl methacrylate
Concen: 16.859 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 69 Resp: 60408

Ion	Ratio	Lower	Upper
69	100		
41	71.2	58.6	87.8
39	37.8	31.5	47.3

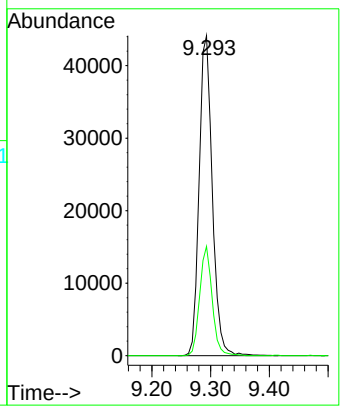




#57
1,3-Dichloropropane
Concen: 17.525 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 76 Resp: 6868

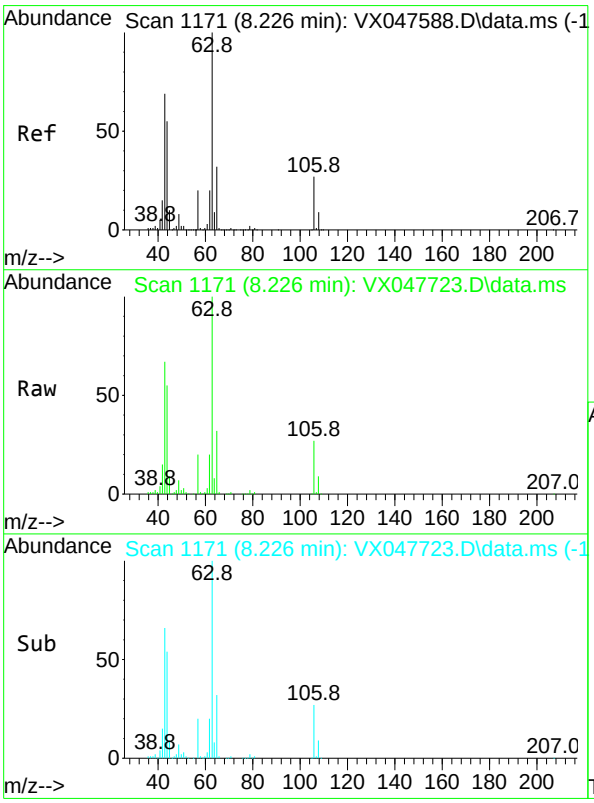
Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

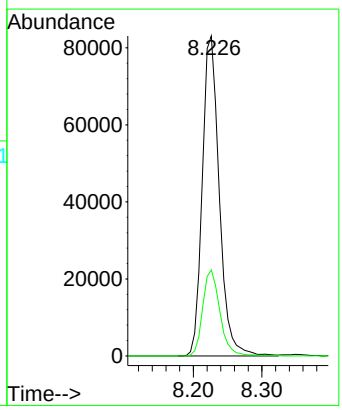
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

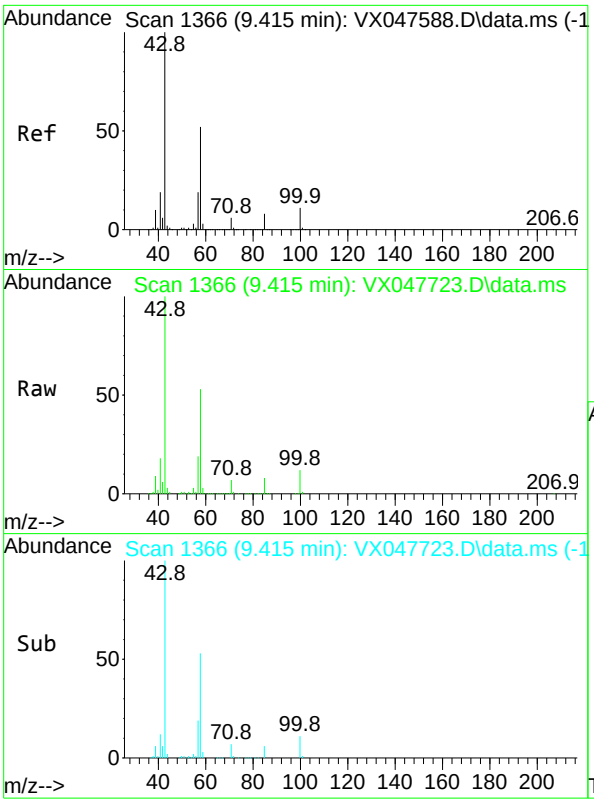


#58
2-Chloroethyl Vinyl ether
Concen: 91.195 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 143660

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9

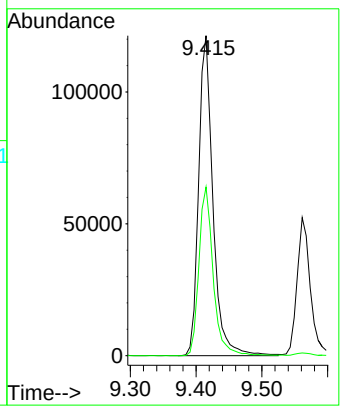




#59
2-Hexanone
Concen: 83.000 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 18352

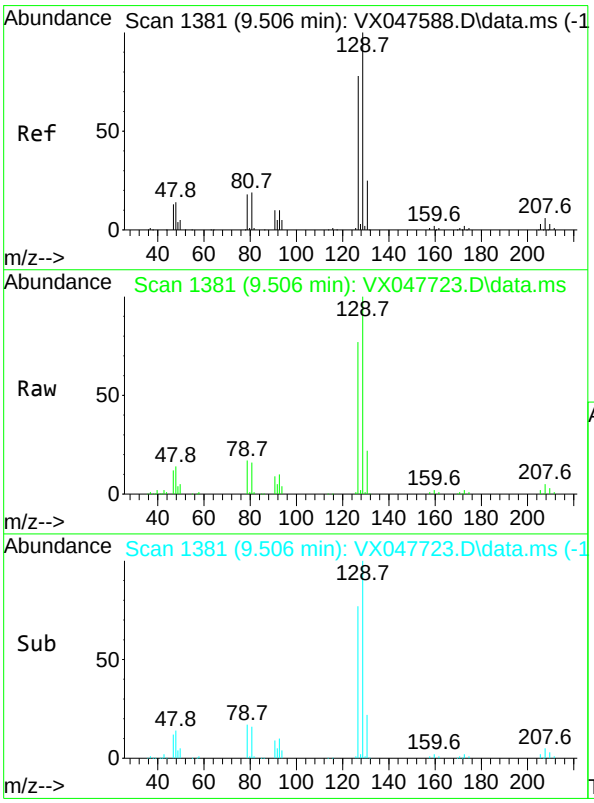
Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

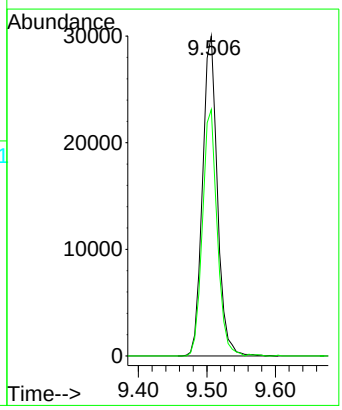
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

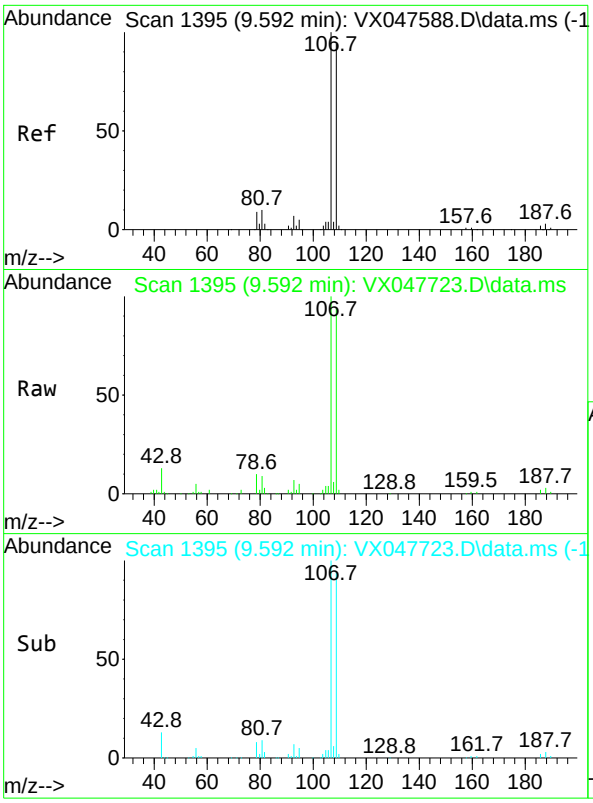


#60
Dibromochloromethane
Concen: 17.249 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:129 Resp: 45346

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.4	115.2

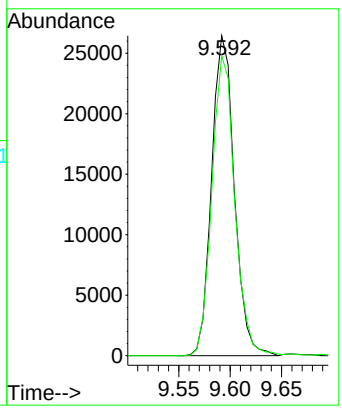




#61
1,2-Dibromoethane
Concen: 17.435 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:107 Resp: 4051

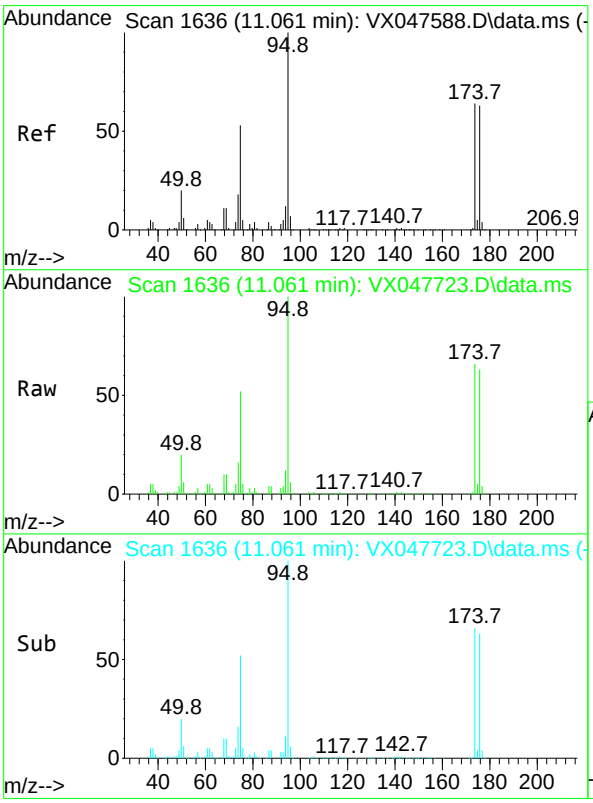
Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

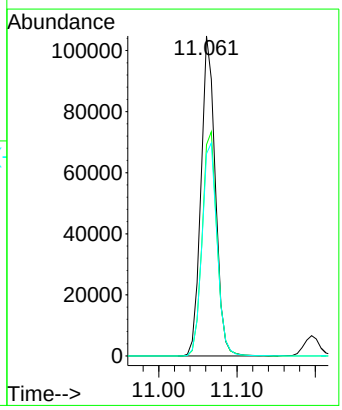
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

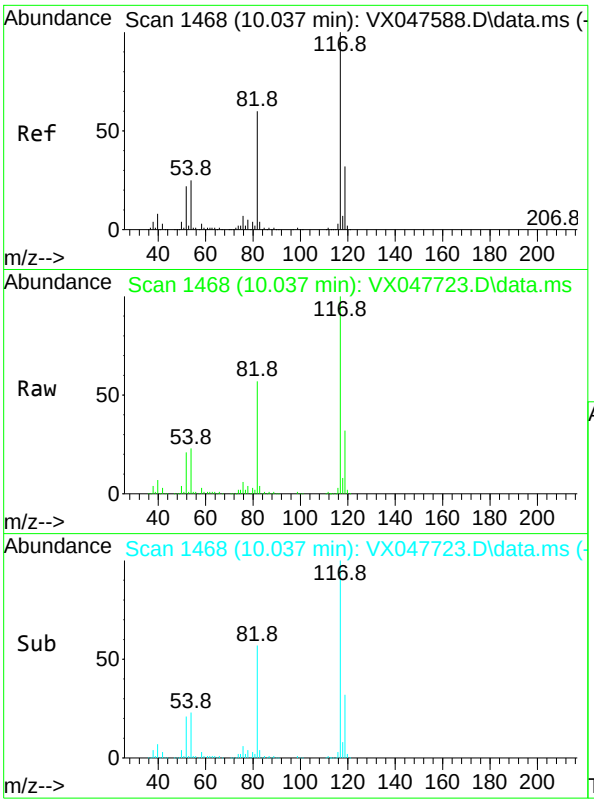


#62
4-Bromofluorobenzene
Concen: 46.772 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 95 Resp: 132914

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.6
176	70.0	0.0	138.4

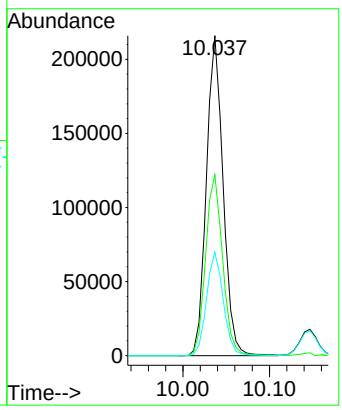




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 28979

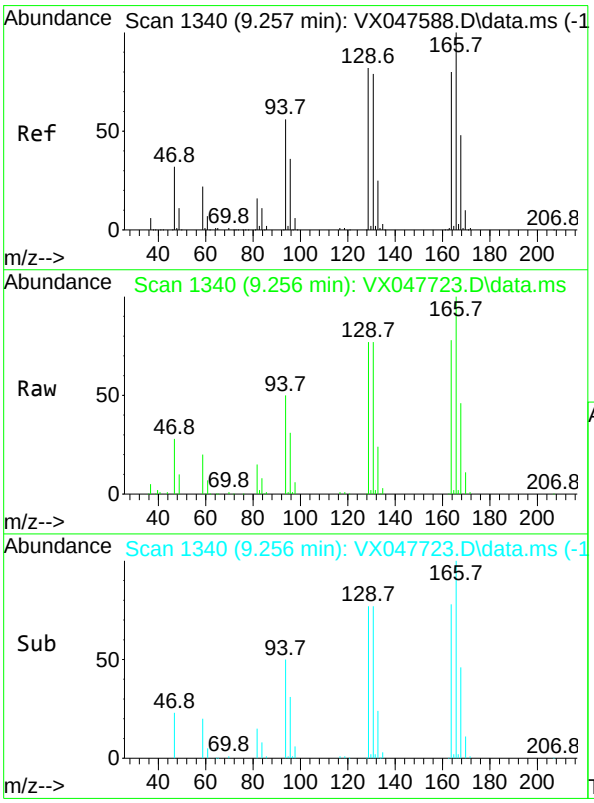
Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.8	71.6
119	32.3	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

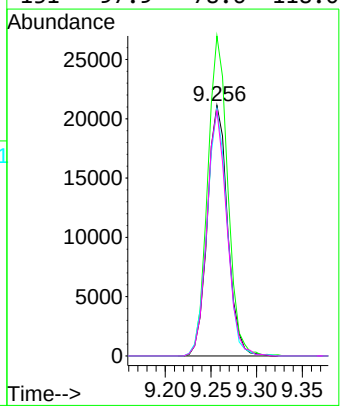
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

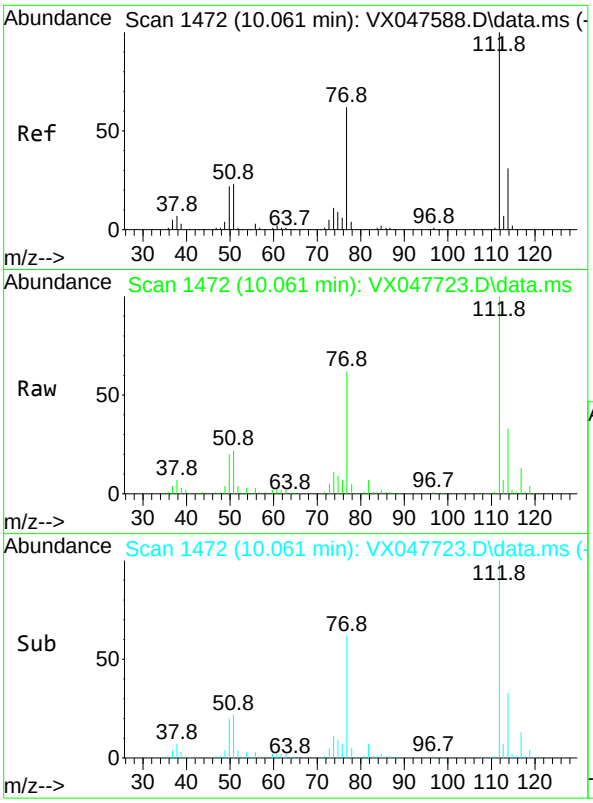


#64
Tetrachloroethene
Concen: 17.136 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:164 Resp: 32372

Ion	Ratio	Lower	Upper
164	100		
166	127.7	100.2	150.2
129	98.8	81.8	122.6
131	97.9	78.6	118.0

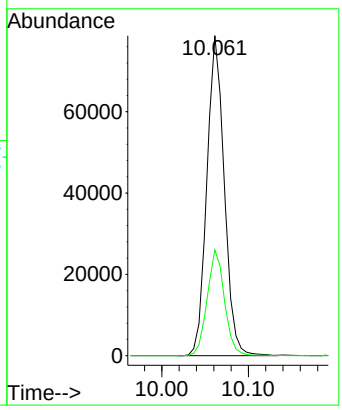




#65
Chlorobenzene
Concen: 16.694 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:112 Resp: 10990

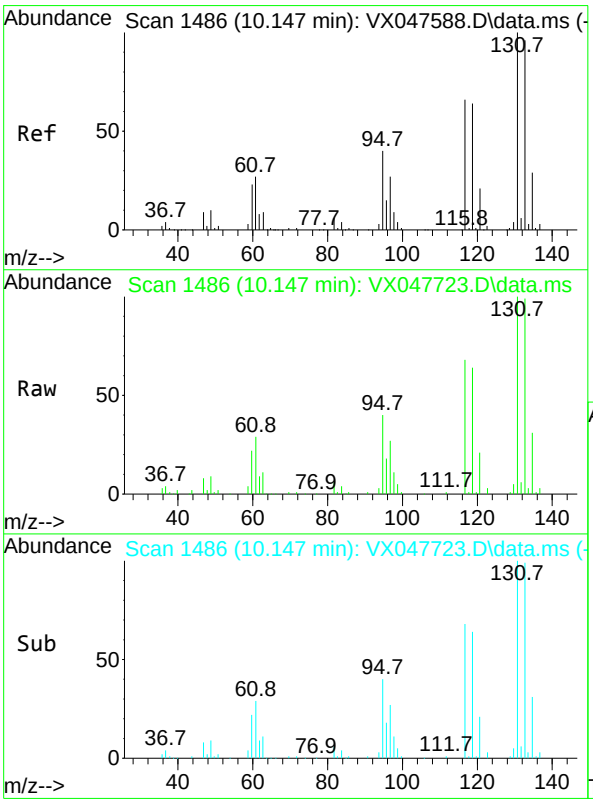
Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

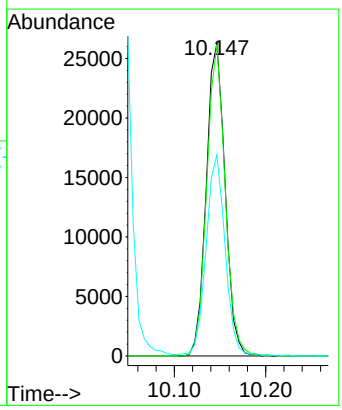
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

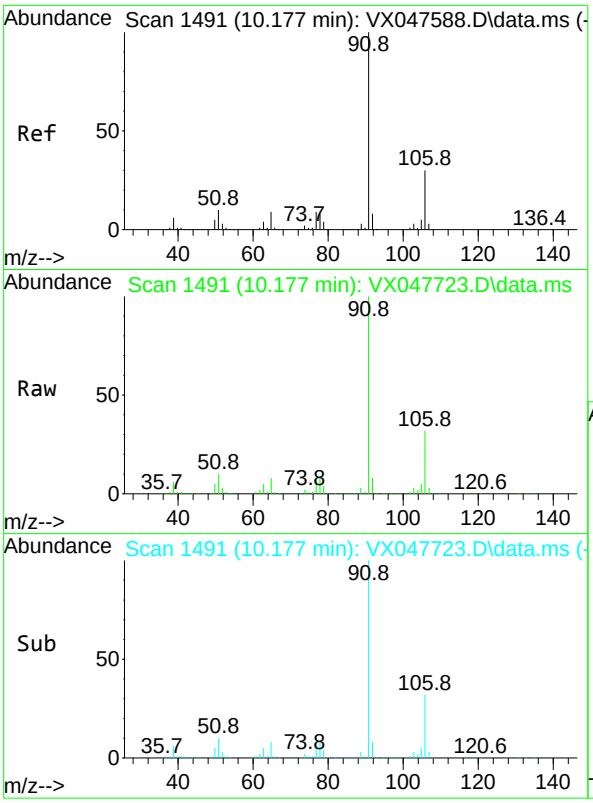


#66
1,1,1,2-Tetrachloroethane
Concen: 16.455 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:131 Resp: 37383

Ion	Ratio	Lower	Upper
131	100		
133	97.8	47.3	142.0
119	65.4	32.0	96.0

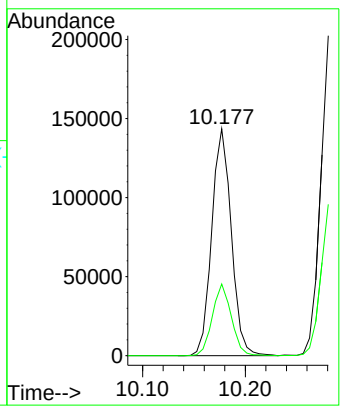




#67
Ethyl Benzene
Concen: 16.684 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 18952

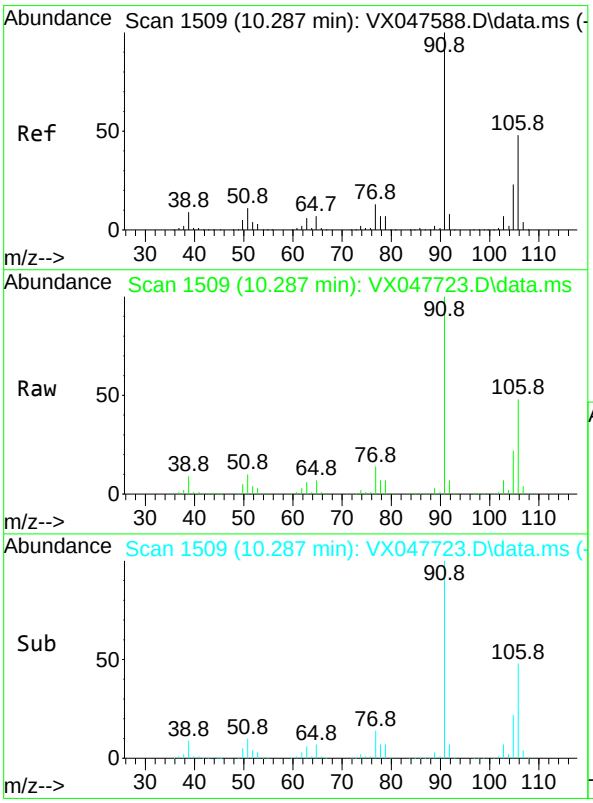
Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

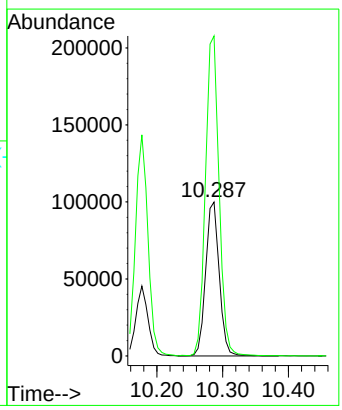
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

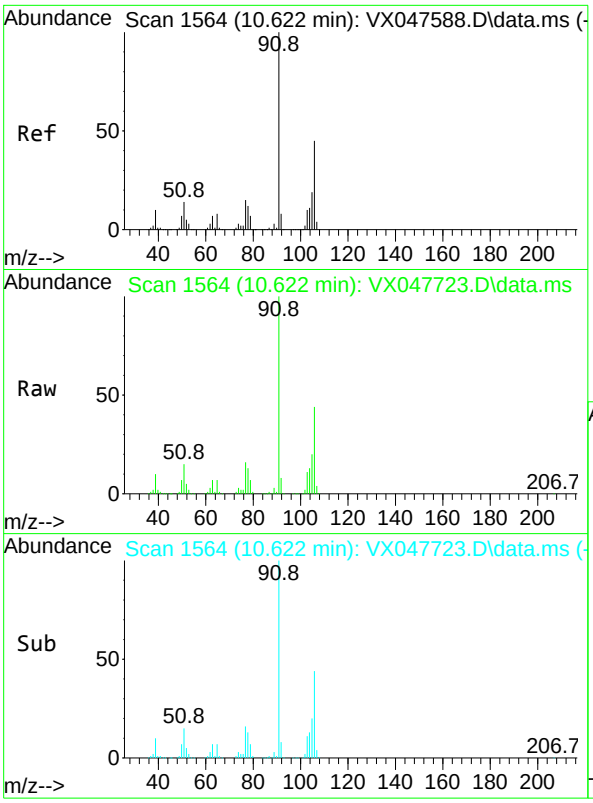


#68
m/p-Xylenes
Concen: 33.927 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:106 Resp: 143444

Ion	Ratio	Lower	Upper
106	100		
91	209.1	167.8	251.8

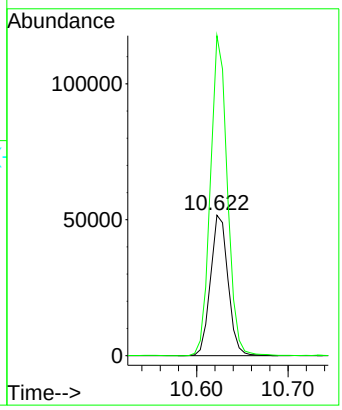




#69
o-Xylene
Concen: 16.861 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:106 Resp: 6895

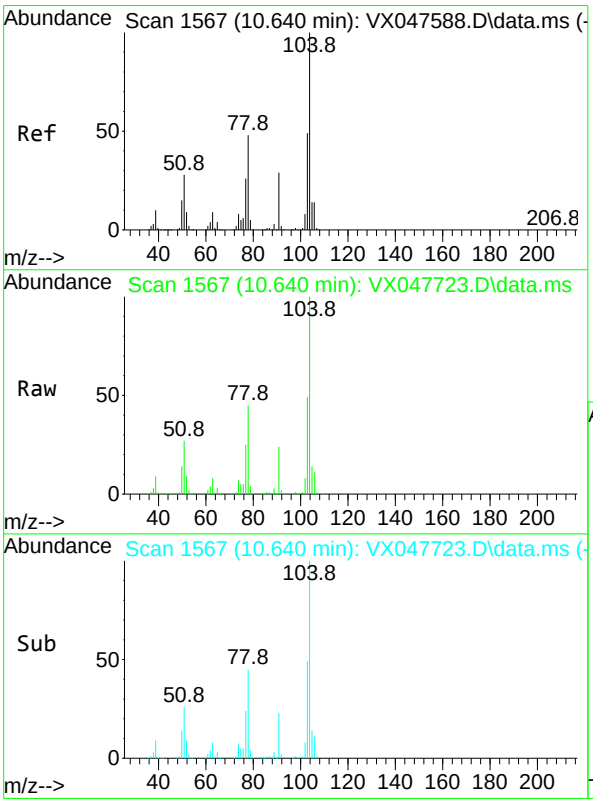
Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

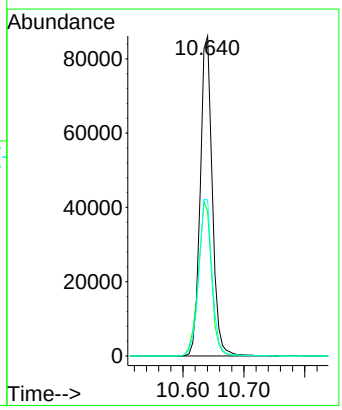
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

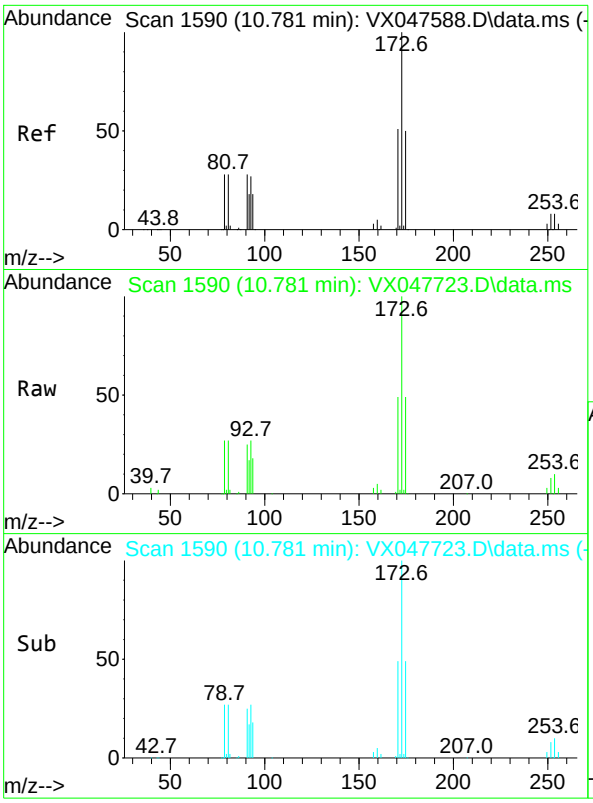


#70
Styrene
Concen: 16.552 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:104 Resp: 118603

Ion	Ratio	Lower	Upper
104	100		
78	53.0	43.1	64.7
103	54.4	43.1	64.7

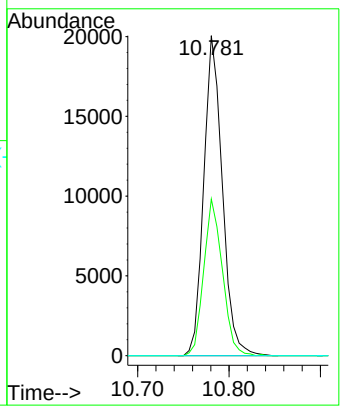




#71
Bromoform
Concen: 16.646 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:173 Resp: 2823

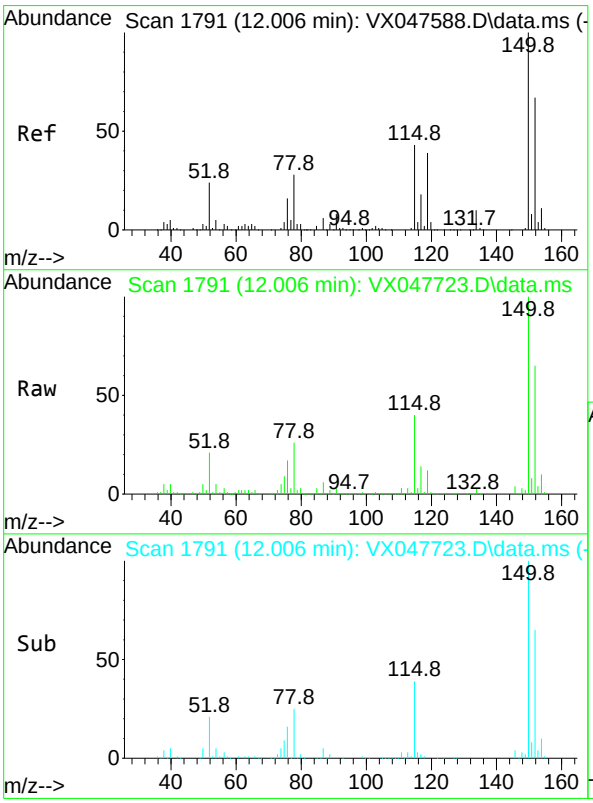
Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

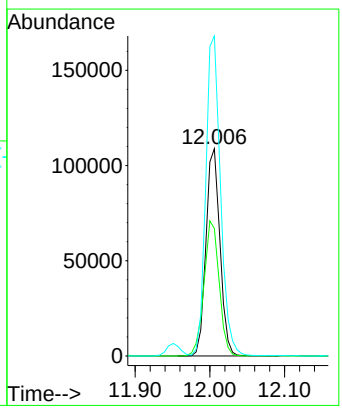
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

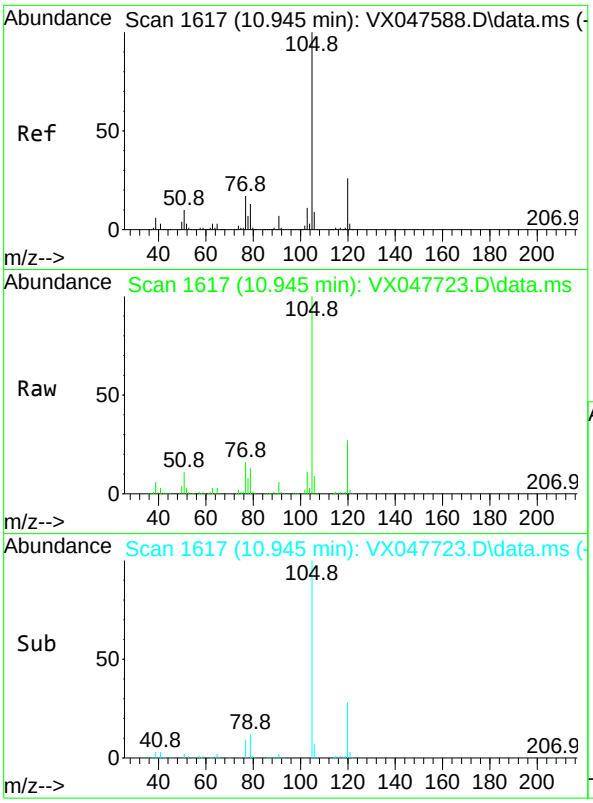


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:152 Resp: 141661

Ion	Ratio	Lower	Upper
152	100		
115	70.3	44.9	134.5
150	161.9	0.0	352.0

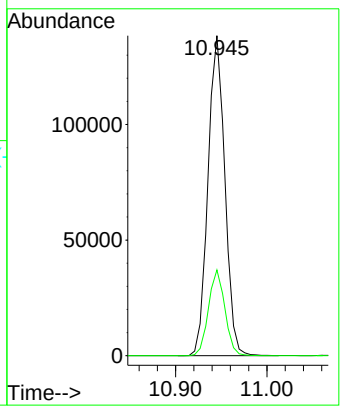




#73
Isopropylbenzene
Concen: 16.449 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 17715

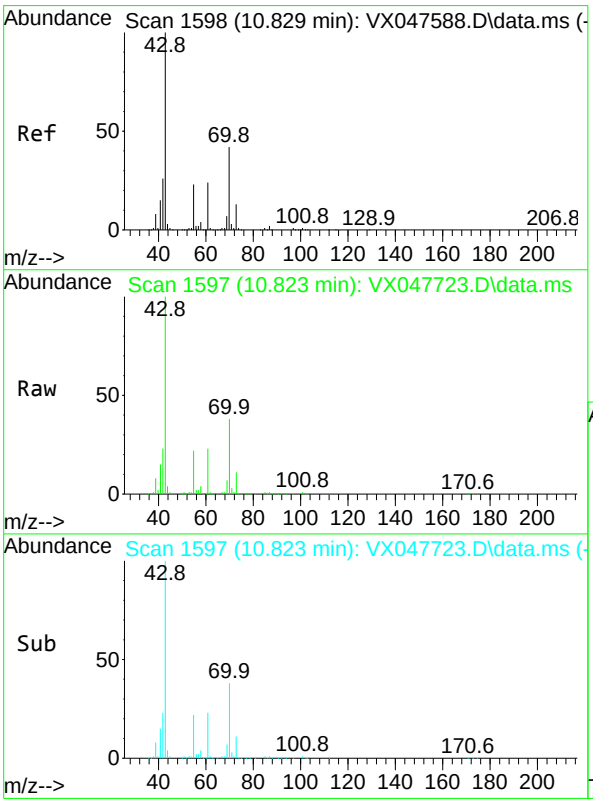
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

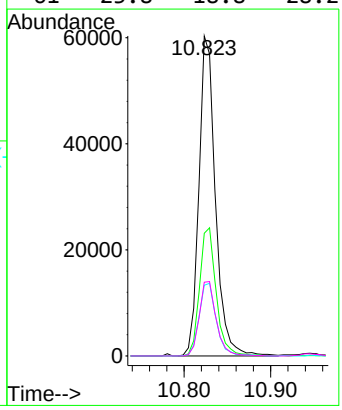
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

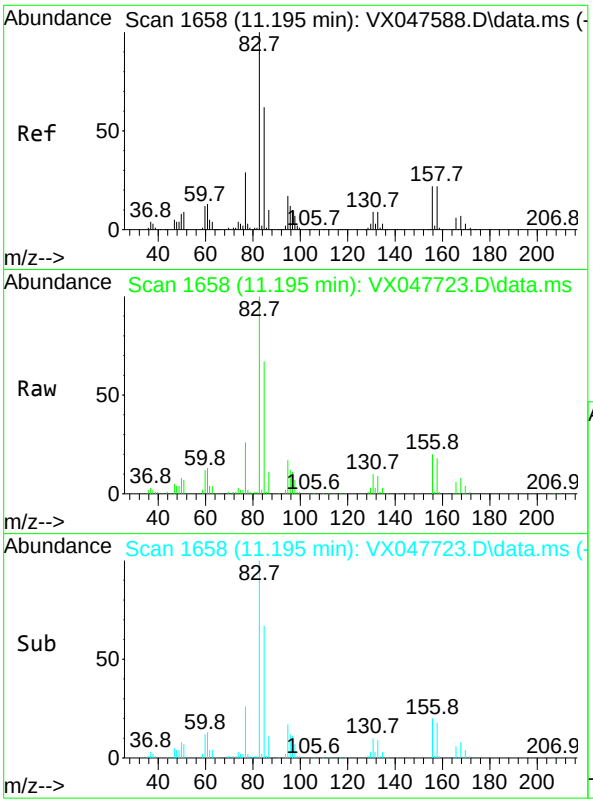


#74
N-amyl acetate
Concen: 16.296 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 80035

Ion	Ratio	Lower	Upper
43	100		
70	40.3	32.0	48.0
55	23.6	18.9	28.3
61	23.8	18.8	28.2

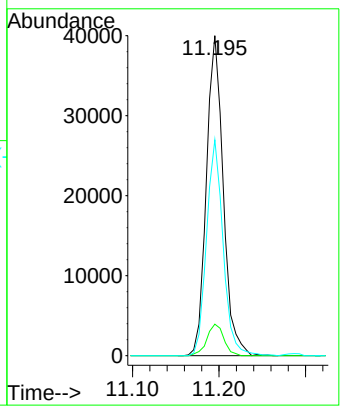




#75
1,1,2,2-Tetrachloroethane
Concen: 16.590 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 5405

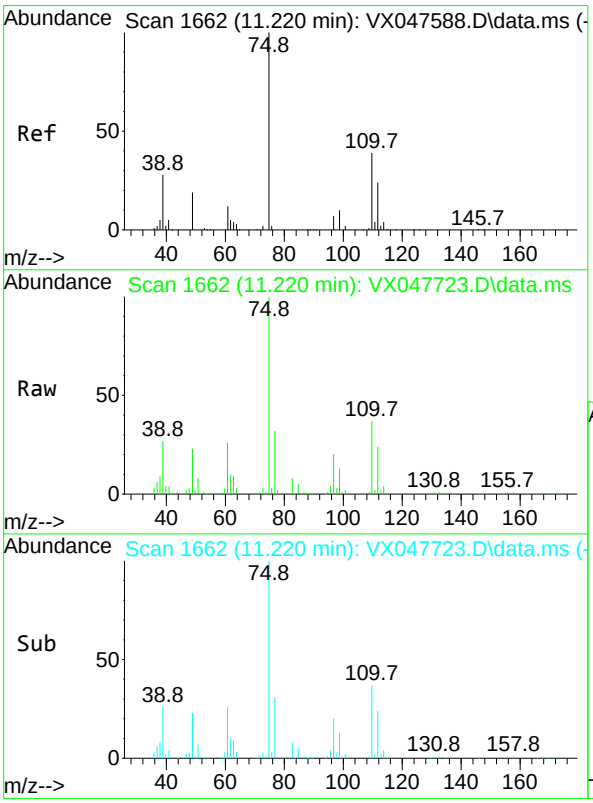
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	66.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

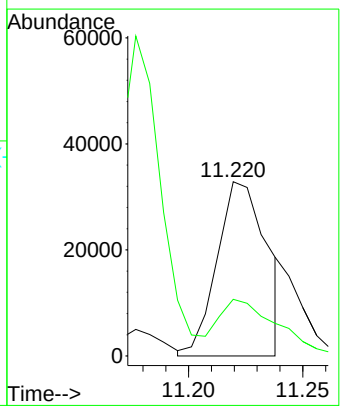
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

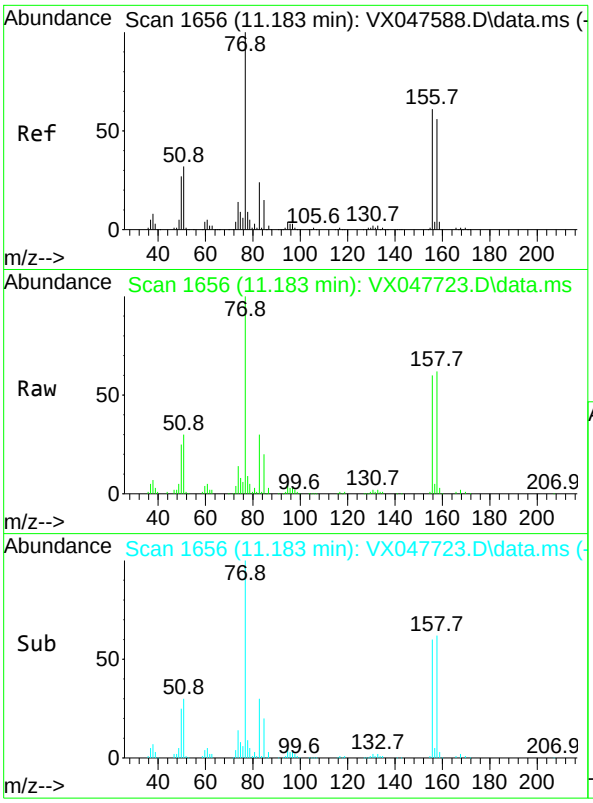


#76
1,2,3-Trichloropropane
Concen: 17.368 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 49816

Ion	Ratio	Lower	Upper
75	100		
77	37.6	18.8	56.4

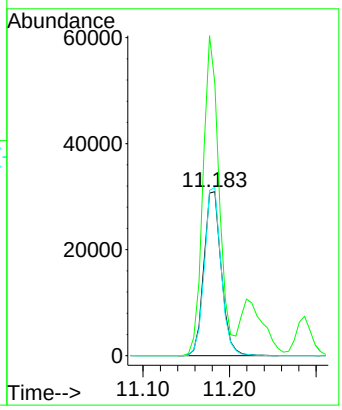




#77
Bromobenzene
Concen: 16.287 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:156 Resp: 4320

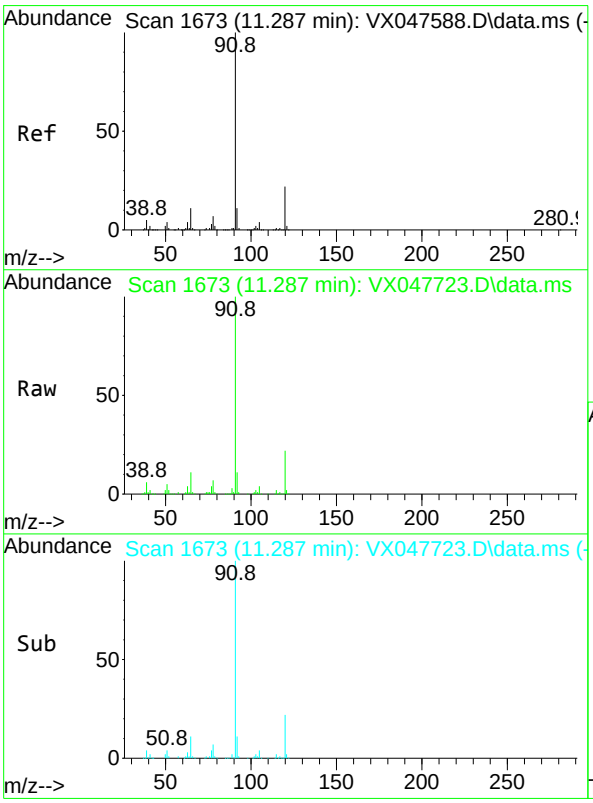
Ion	Ratio	Lower	Upper
156	100		
77	181.8	89.7	269.1
158	98.4	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

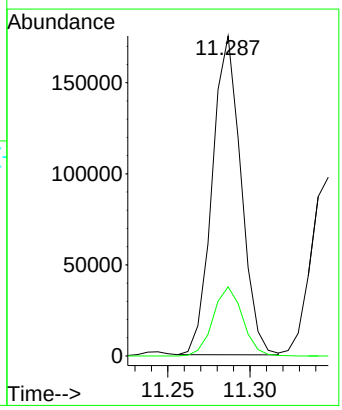
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

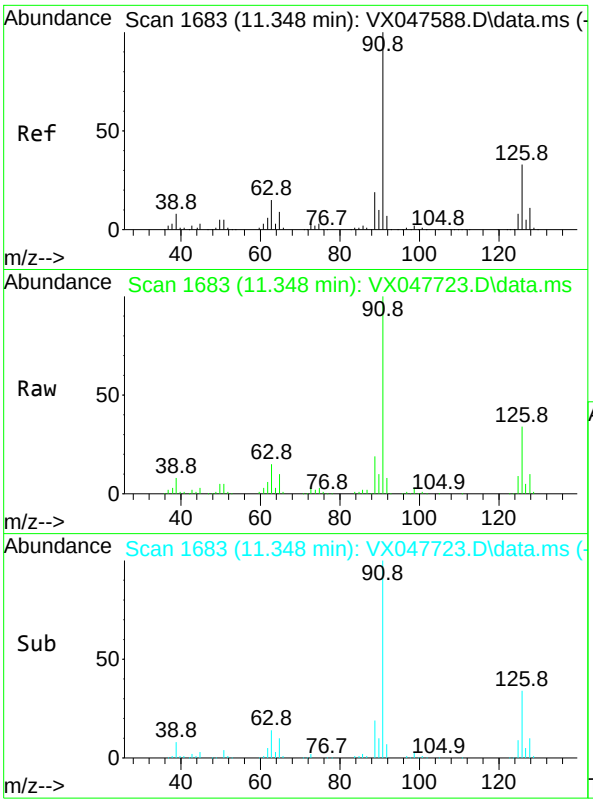


#78
n-propylbenzene
Concen: 16.736 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 213079

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1

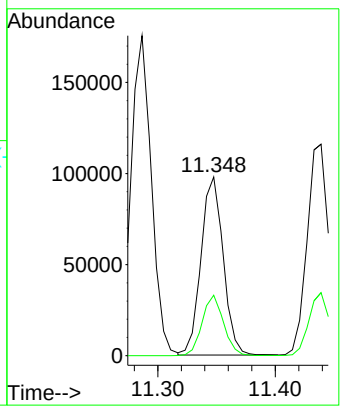




#79
2-Chlorotoluene
Concen: 16.446 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 12823

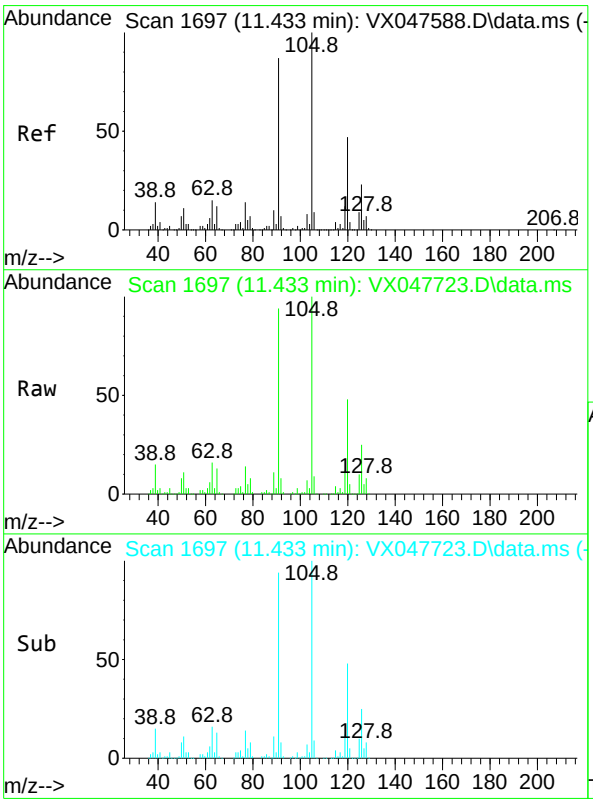
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

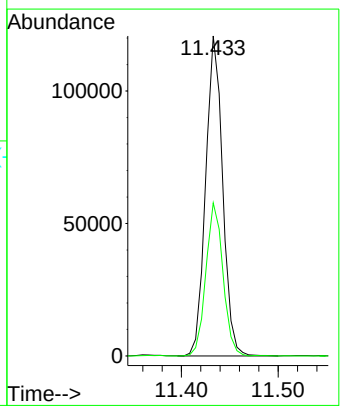
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

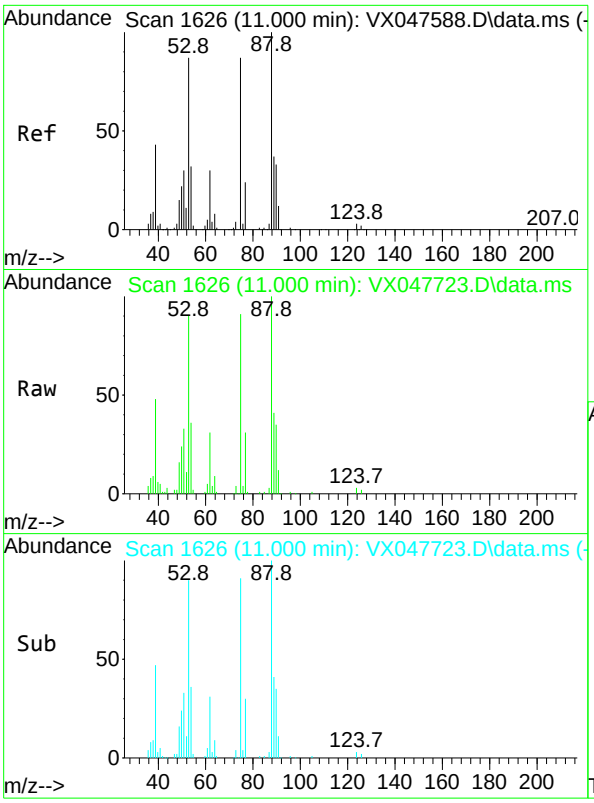


#80
1,3,5-Trimethylbenzene
Concen: 16.707 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 147832

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.6	70.8

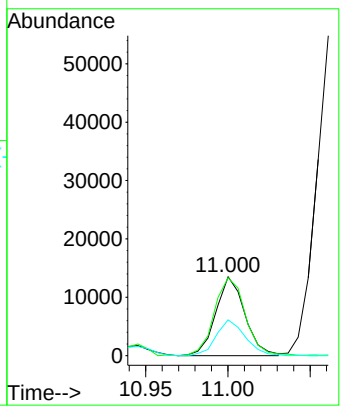




#81
trans-1,4-Dichloro-2-butene
Concen: 14.736 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 1657

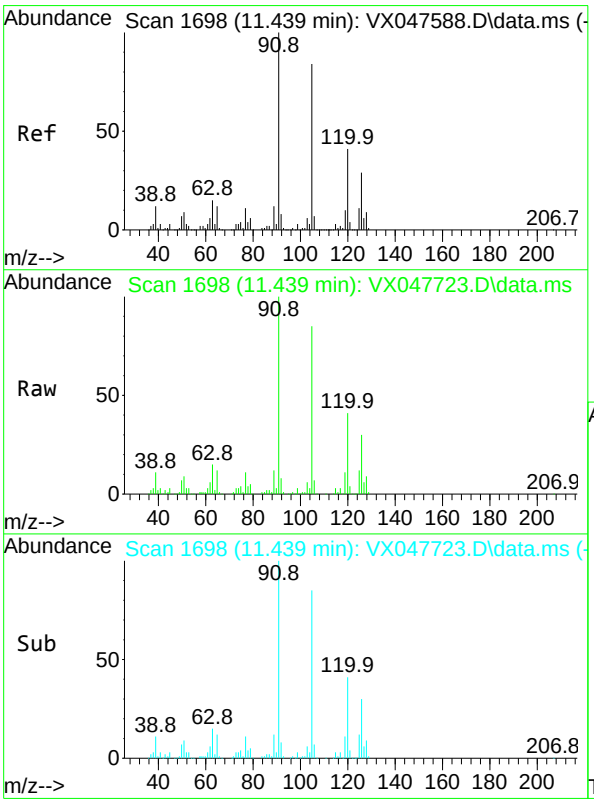
Ion	Ratio	Lower	Upper
75	100		
53	105.6	83.4	125.2
89	45.5	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

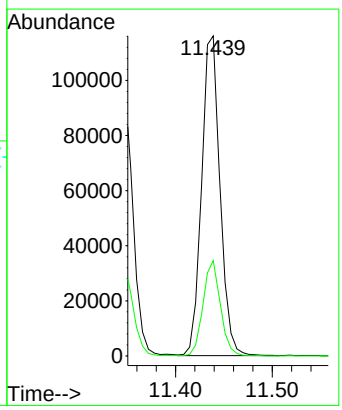
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

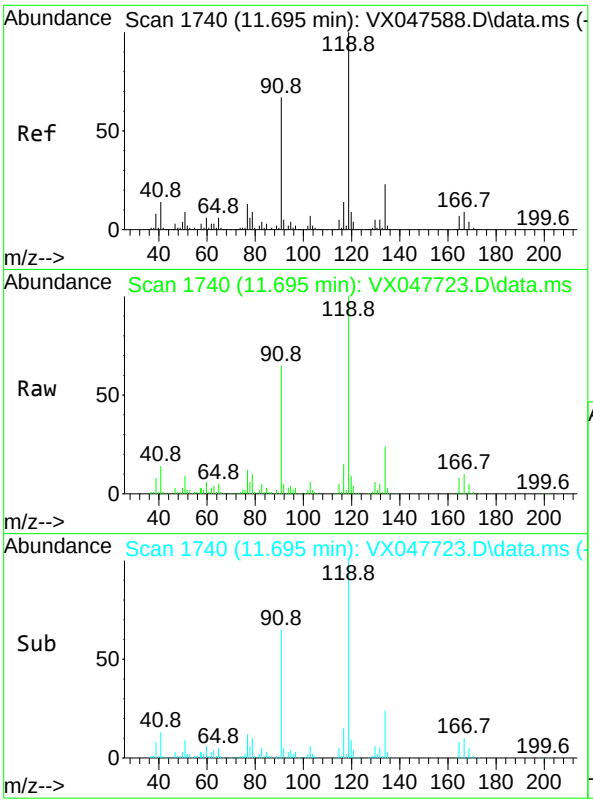


#82
4-Chlorotoluene
Concen: 16.677 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 153584

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6

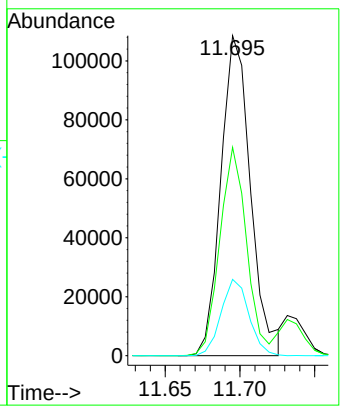




#83
tert-Butylbenzene
Concen: 16.497 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:119 Resp: 14943

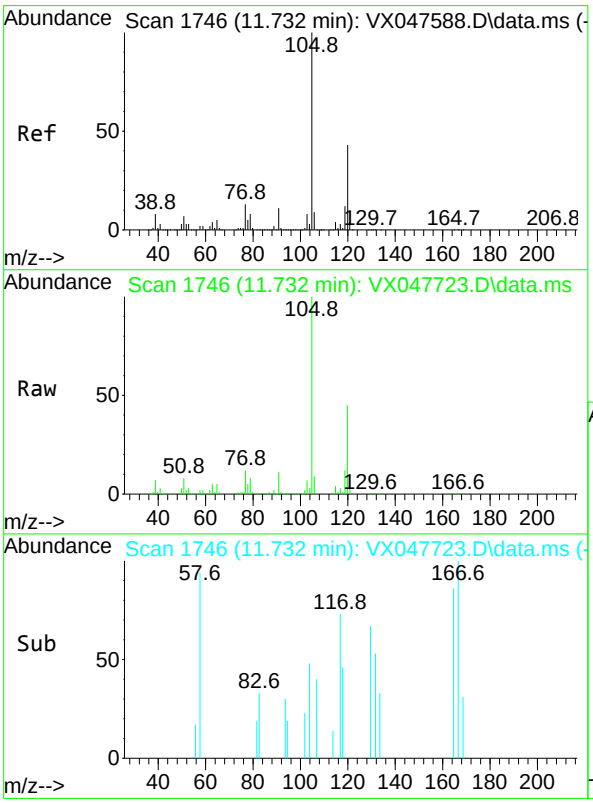
Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.4	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

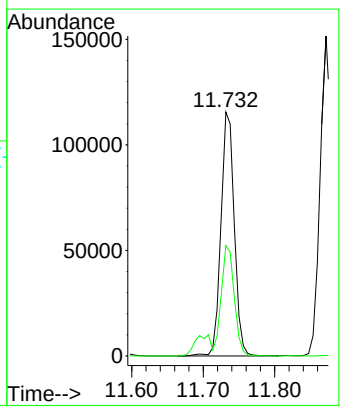
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

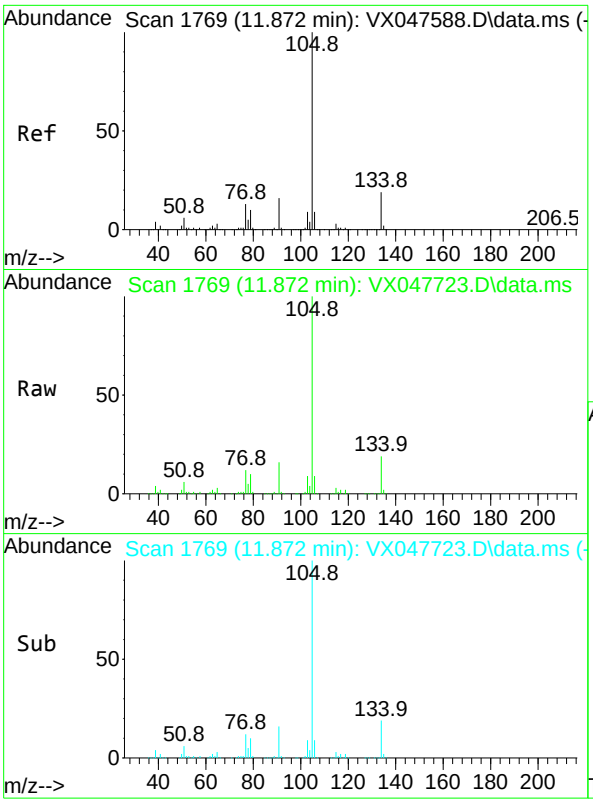


#84
1,2,4-Trimethylbenzene
Concen: 16.747 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 150232

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

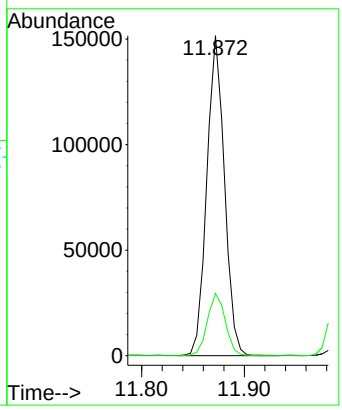




#85
sec-Butylbenzene
Concen: 16.825 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 18102

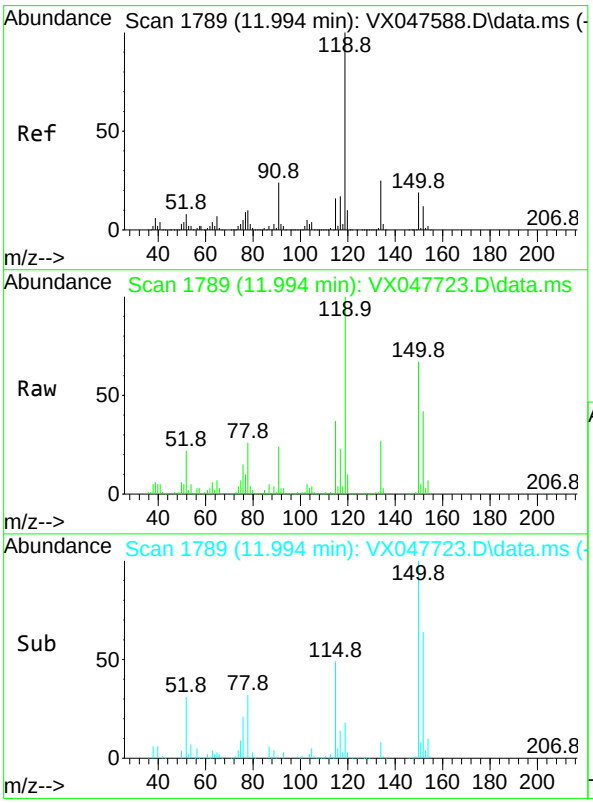
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

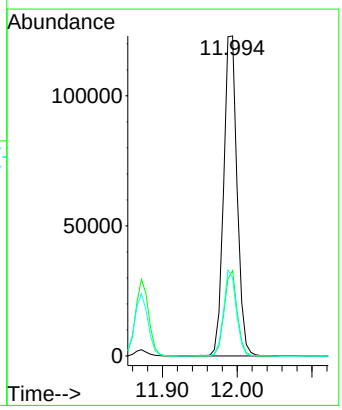
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

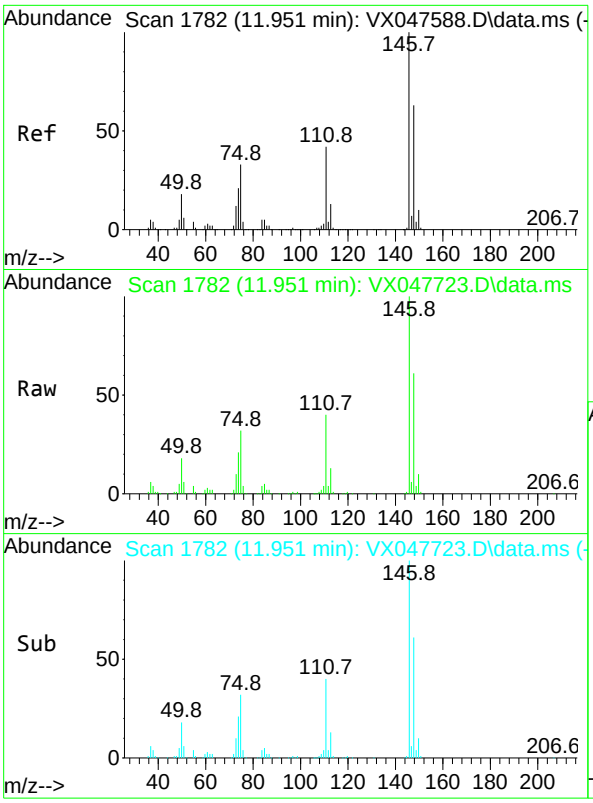


#86
p-Isopropyltoluene
Concen: 16.913 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:119 Resp: 154052

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	25.5	12.6	37.6

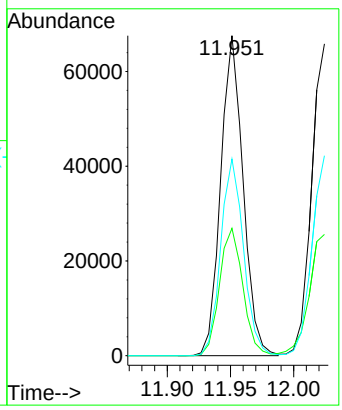




#87
1,3-Dichlorobenzene
Concen: 16.875 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 8314

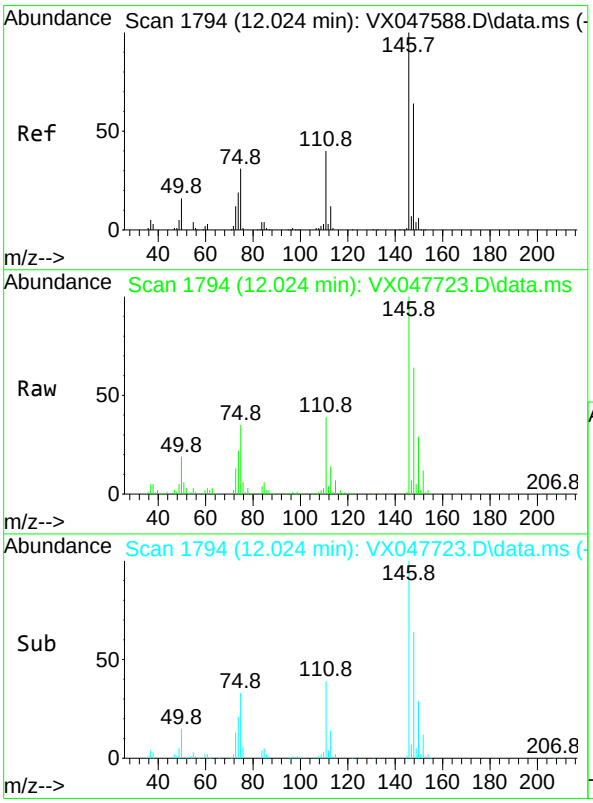
Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.5	64.5
148	62.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

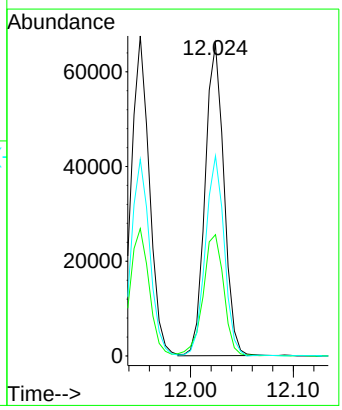
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

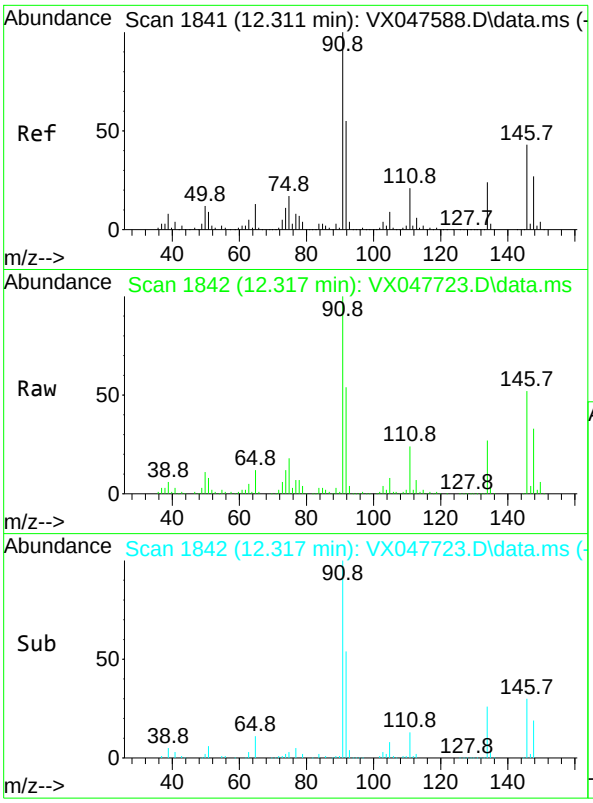


#88
1,4-Dichlorobenzene
Concen: 16.605 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 83968

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.8	62.4
148	63.9	31.7	95.1

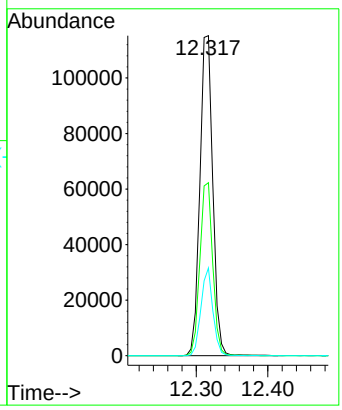




#89
n-Butylbenzene
Concen: 17.140 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 14446

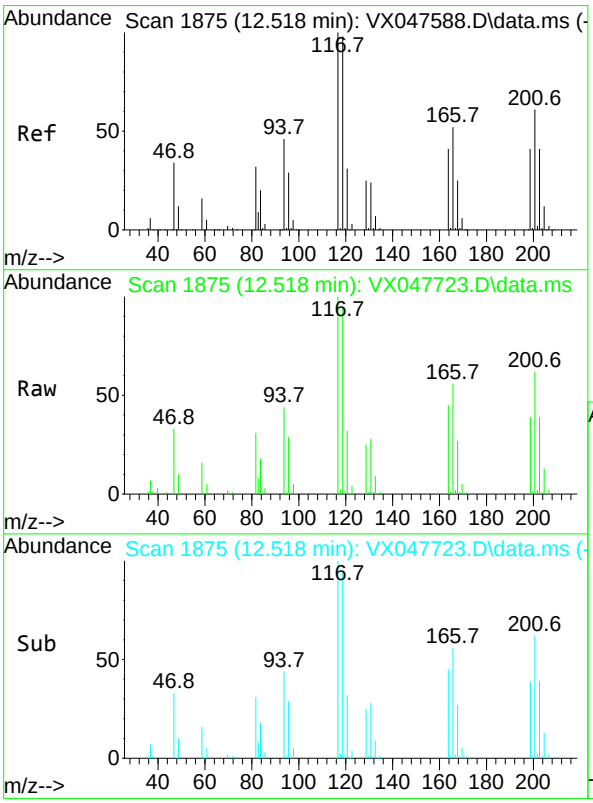
Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

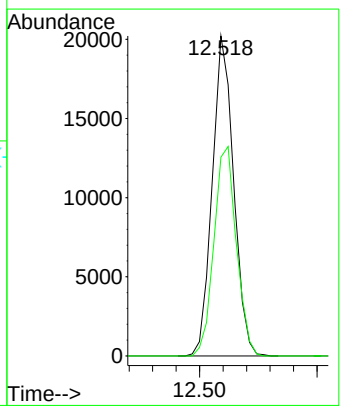
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

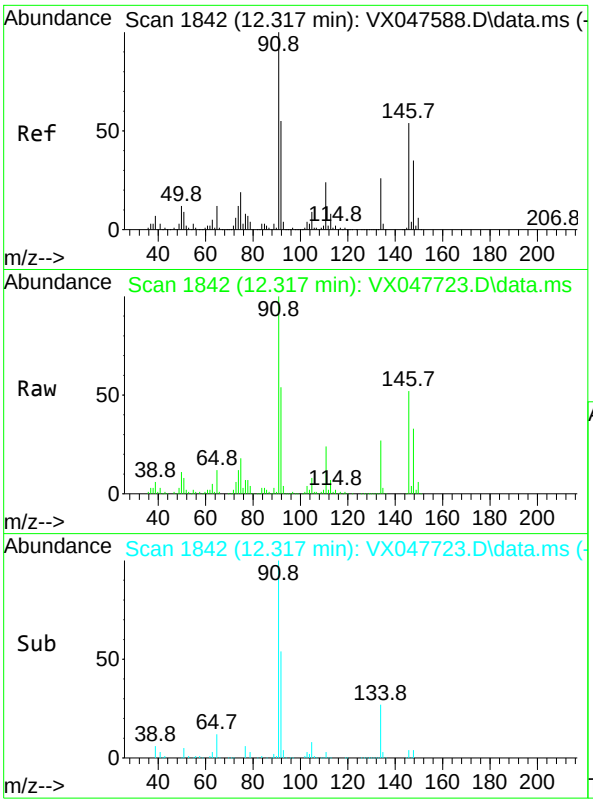


#90
Hexachloroethane
Concen: 15.981 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 25557

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5

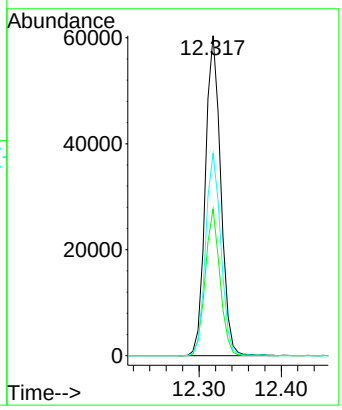




#91
1,2-Dichlorobenzene
Concen: 16.683 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 7830

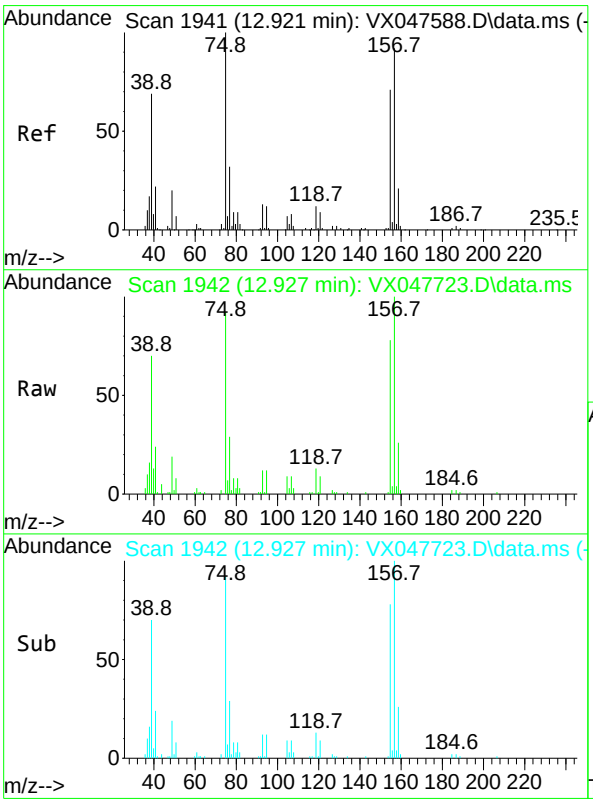
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	62.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

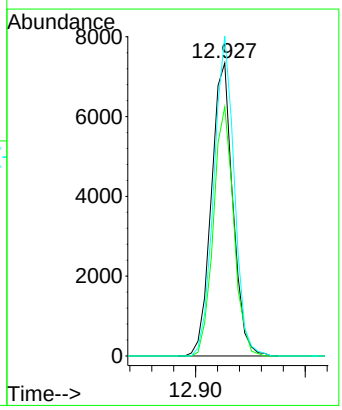
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

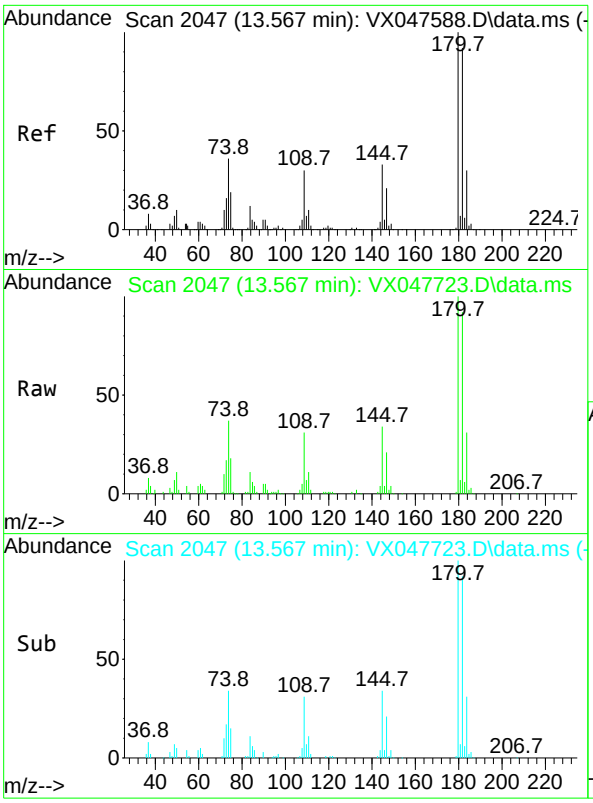


#92
1,2-Dibromo-3-Chloropropane
Concen: 15.194 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 10024

Ion	Ratio	Lower	Upper
75	100		
155	79.9	37.7	113.1
157	103.6	49.8	149.4

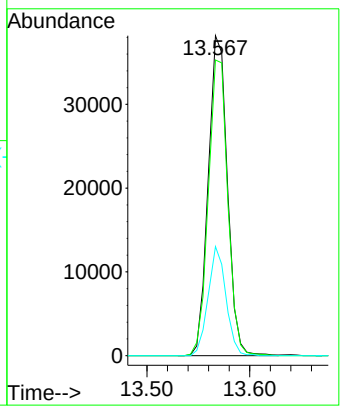




#93
1,2,4-Trichlorobenzene
Concen: 16.182 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:180 Resp: 4936

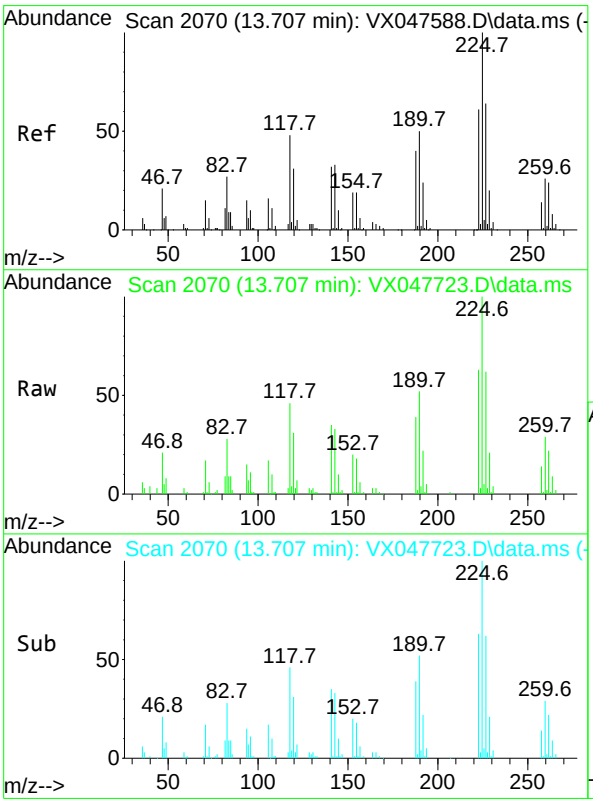
Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.6	139.8
145	31.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

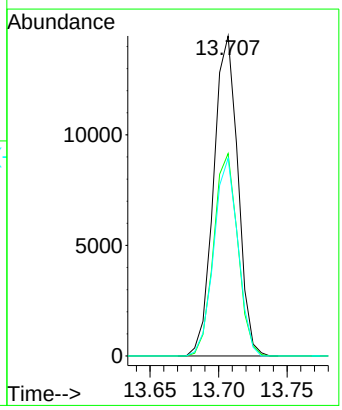
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

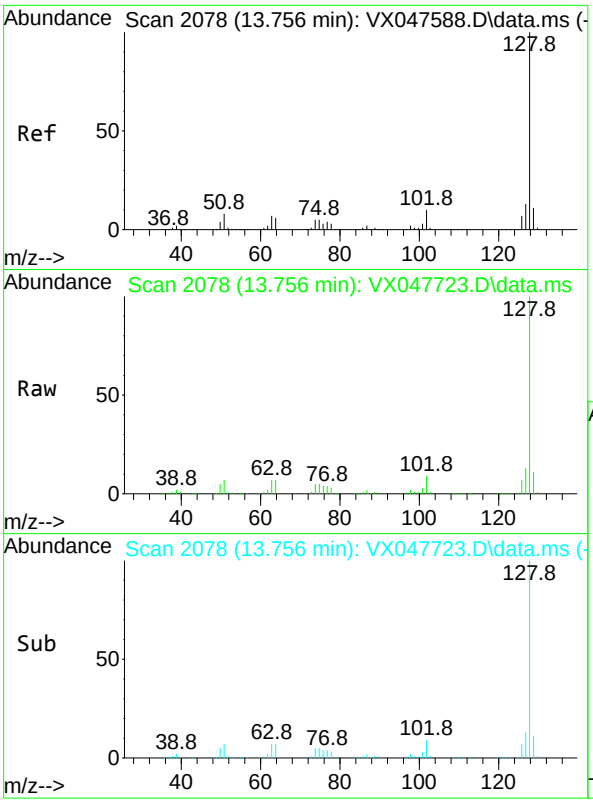


#94
Hexachlorobutadiene
Concen: 17.165 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:225 Resp: 17786

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.7	95.1
227	61.4	32.0	96.0

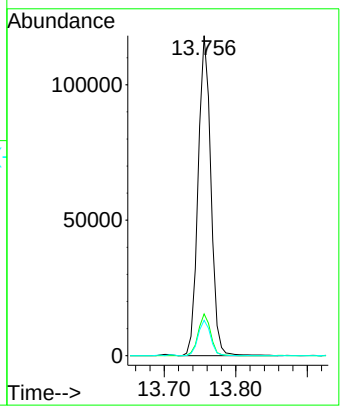




#95
Naphthalene
Concen: 15.742 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:128 Resp: 14623

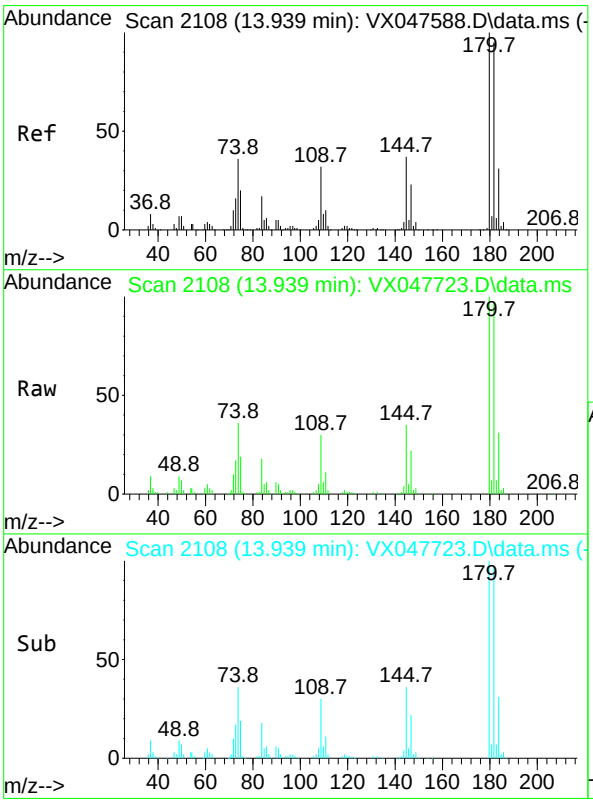
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

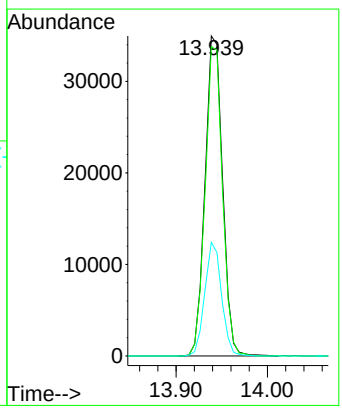
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.373 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:180 Resp: 46461

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.6	142.8
145	34.1	17.9	53.7



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBS03	SDG No.:	Q3141
Lab Sample ID:	VX0923WBS03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047748.D	1	09/24/25 03:53	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	23.6		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	21.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	22.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	23.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.0		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.9		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.2		0.23	0.75	1.00	ug/L
67-64-1	Acetone	87.7		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	20.9		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	22.4		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	20.7		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.4		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.0		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	20.9		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	19.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.9		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	19.1		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	21.3		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.2		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.1		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.9		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	21.3		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.0		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.7		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	21.1		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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBS03	SDG No.:	Q3141
Lab Sample ID:	VX0923WBS03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047748.D	1	09/24/25 03:53	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.8		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.1		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.7		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	21.2		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.0		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.4		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.8		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	42.3		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.9		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.7		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.9		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.6		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.6		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	20.7		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.4		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.8		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.7		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.0		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	157000	5.544				
540-36-3	1,4-Difluorobenzene	284000	6.751				
3114-55-4	Chlorobenzene-d5	254000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	124000	12.006				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBS03	SDG No.:	Q3141
Lab Sample ID:	VX0923WBS03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047748.D	1	09/24/25 03:53	VX092325

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\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	156932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	284011	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	122385	48.994	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.980%			
35) Dibromofluoromethane	5.373	113	96590	50.711	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.420%			
50) Toluene-d8	8.635	98	333541	50.607	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.220%			
62) 4-Bromofluorobenzene	11.061	95	127747	51.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	38327	23.585	ug/l	98
3) Chloromethane	1.301	50	46331	21.693	ug/l	95
4) Vinyl Chloride	1.380	62	46862	22.415	ug/l	97
5) Bromomethane	1.618	94	31202	23.536	ug/l	96
6) Chloroethane	1.697	64	29347	21.002	ug/l	95
7) Trichlorofluoromethane	1.898	101	64984	20.934	ug/l	98
8) Diethyl Ether	2.136	74	25934	20.423	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	38130	21.007	ug/l	100
10) Methyl Iodide	2.459	142	56731	20.040	ug/l	99
11) Tert butyl alcohol	2.941	59	29775	107.025	ug/l	100
12) 1,1-Dichloroethene	2.325	96	39463	21.165	ug/l	99
13) Acrolein	2.239	56	25496	99.449	ug/l	99
14) Allyl chloride	2.666	41	72907	18.949	ug/l	97
15) Acrylonitrile	3.056	53	116513	113.065	ug/l	99
16) Acetone	2.374	43	95237	87.685	ug/l	100
17) Carbon Disulfide	2.514	76	106524	20.869	ug/l	99
18) Methyl Acetate	2.703	43	54144	22.400	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	140115	20.586	ug/l	100
20) Methylene Chloride	2.788	84	47681	20.740	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	42881	21.362	ug/l	94
22) Diisopropyl ether	3.751	45	155798	20.894	ug/l #	82
23) Vinyl Acetate	3.715	43	617433	103.461	ug/l	100
24) 1,1-Dichloroethane	3.605	63	83274	21.012	ug/l	100
25) 2-Butanone	4.544	43	144925	106.972	ug/l	96
26) 2,2-Dichloropropane	4.471	77	42968	13.043	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	51366	20.894	ug/l	95
28) Bromochloromethane	4.891	49	33021	19.085	ug/l	100
29) Tetrahydrofuran	4.989	42	93114	114.248	ug/l	99
30) Chloroform	5.087	83	85486	21.345	ug/l	96
31) Cyclohexane	5.464	56	69116	20.939	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	71907	21.168	ug/l	99
36) 1,1-Dichloropropene	5.678	75	56214	20.197	ug/l	98
37) Ethyl Acetate	4.702	43	63237	21.220	ug/l	100
38) Carbon Tetrachloride	5.666	117	59490	19.672	ug/l	96
39) Methylcyclohexane	7.367	83	63625	20.138	ug/l	94
40) Benzene	6.025	78	176451	20.873	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	33379	21.696	ug/l		99
42) 1,2-Dichloroethane	6.074	62	65506	20.366	ug/l		98
43) Isopropyl Acetate	6.330	43	102233	20.917	ug/l		99
44) Trichloroethene	7.117	130	43438	21.254	ug/l		88
45) 1,2-Dichloropropane	7.415	63	45508	21.024	ug/l		97
46) Dibromomethane	7.568	93	32646	20.725	ug/l		97
47) Bromodichloromethane	7.806	83	67223	20.681	ug/l		99
48) Methyl methacrylate	7.678	41	49967	20.524	ug/l		97
49) 1,4-Dioxane	7.653	88	12395	503.790	ug/l		98
51) 4-Methyl-2-Pentanone	8.561	43	310191	114.468	ug/l		100
52) Toluene	8.702	92	109881	21.098	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	62267	18.780	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	67811	19.135	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	43533	21.677	ug/l		98
56) Ethyl methacrylate	9.104	69	67219	21.313	ug/l		96
57) 1,3-Dichloropropane	9.293	76	74746	21.667	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	148860	105.735	ug/l		100
59) 2-Hexanone	9.415	43	217174	111.587	ug/l		99
60) Dibromochloromethane	9.506	129	48986	21.170	ug/l		99
61) 1,2-Dibromoethane	9.592	107	45047	22.022	ug/l		99
64) Tetrachloroethene	9.256	164	35498	21.442	ug/l		100
65) Chlorobenzene	10.061	112	119644	20.738	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	41811	21.001	ug/l		99
67) Ethyl Benzene	10.177	91	206630	20.757	ug/l		99
68) m/p-Xylenes	10.287	106	156597	42.264	ug/l		98
69) o-Xylene	10.622	106	75062	20.945	ug/l		99
70) Styrene	10.640	104	129679	20.651	ug/l		99
71) Bromoform	10.781	173	31001	20.854	ug/l	#	100
73) Isopropylbenzene	10.945	105	193342	20.548	ug/l		100
74) N-amyl acetate	10.829	43	88563	20.640	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	61446	21.584	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	48514m	19.360	ug/l		
77) Bromobenzene	11.183	156	48182	20.791	ug/l		97
78) n-propylbenzene	11.287	91	228489	20.542	ug/l		100
79) 2-Chlorotoluene	11.348	91	140664	20.647	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	160516	20.764	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	15843	16.123	ug/l		97
82) 4-Chlorotoluene	11.439	91	166032	20.635	ug/l		99
83) tert-Butylbenzene	11.695	119	160239	20.248	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	161967	20.665	ug/l		100
85) sec-Butylbenzene	11.872	105	196176	20.870	ug/l		99
86) p-Isopropyltoluene	11.994	119	161751	20.326	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	88665	20.598	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	90738	20.539	ug/l		99
89) n-Butylbenzene	12.311	91	148126	20.116	ug/l		98
90) Hexachloroethane	12.518	117	28222	20.199	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	84704	20.655	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	11756	20.397	ug/l		94
93) 1,2,4-Trichlorobenzene	13.567	180	52777	19.802	ug/l		99
94) Hexachlorobutadiene	13.707	225	18191	20.094	ug/l		98
95) Naphthalene	13.756	128	164732	20.298	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	51341	20.708	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

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

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

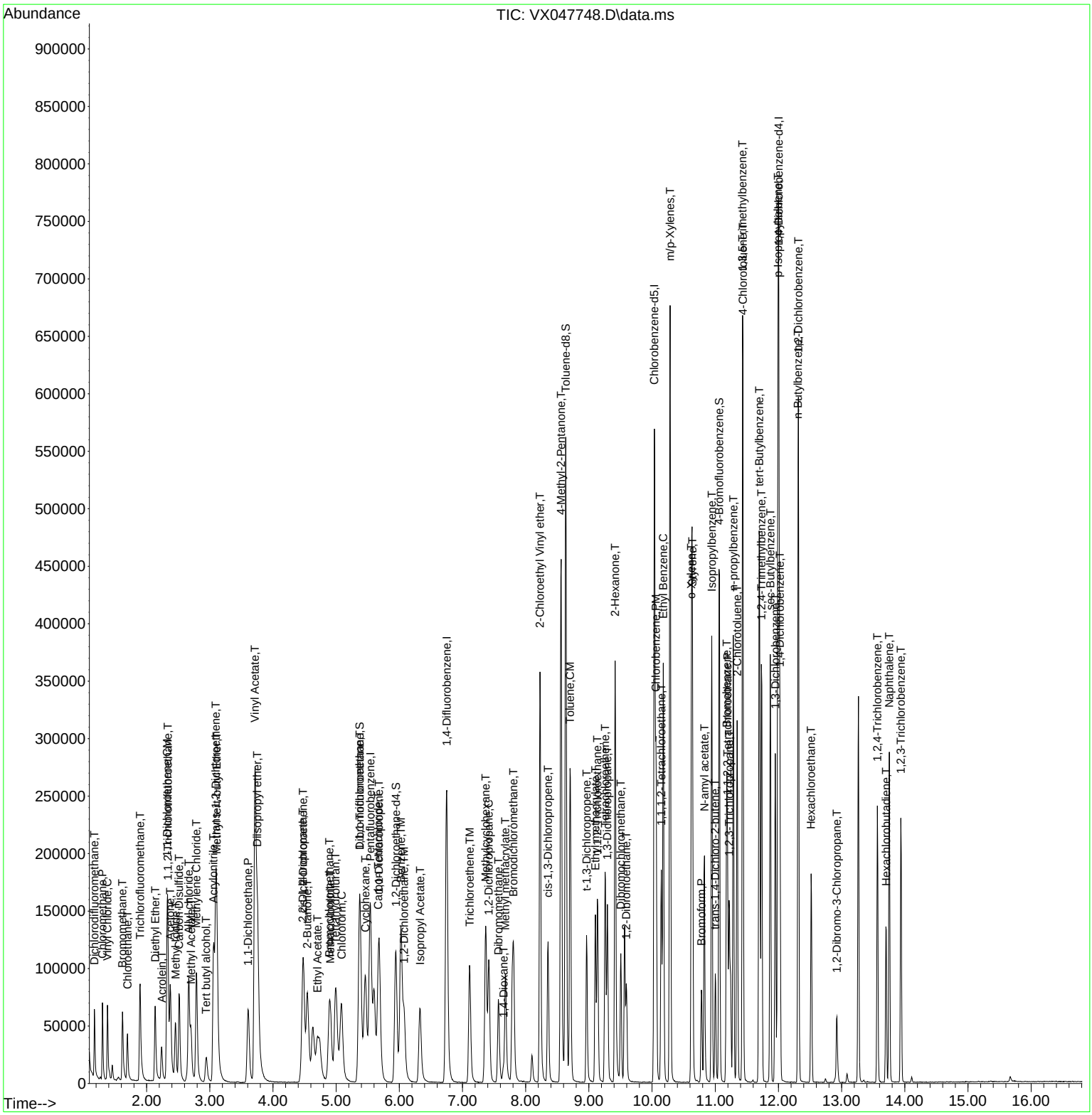
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

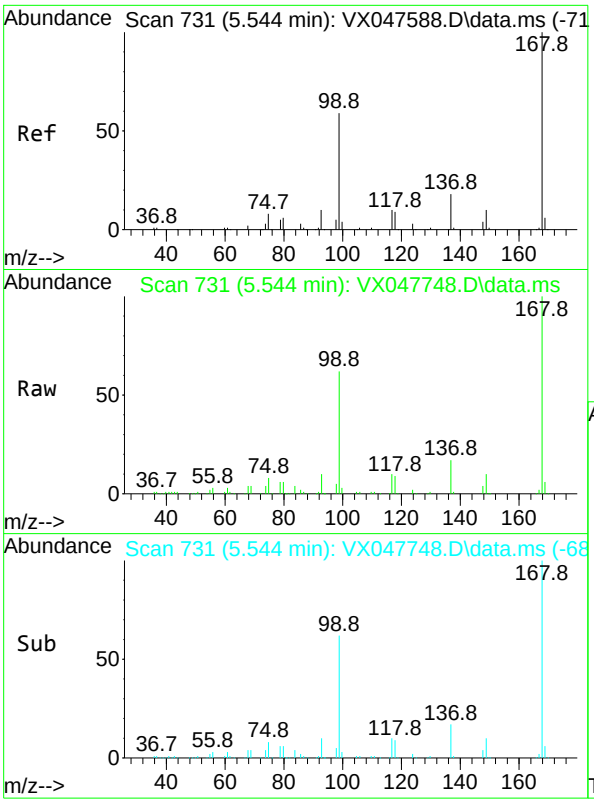
Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

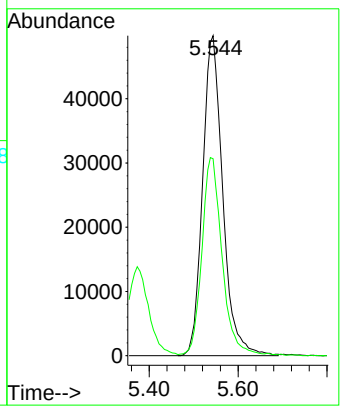




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:168 Resp: 15693

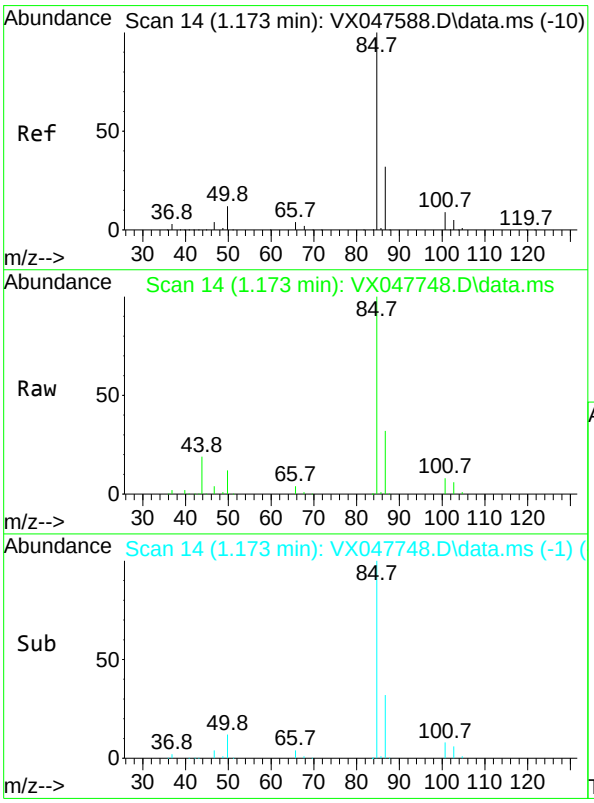
Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

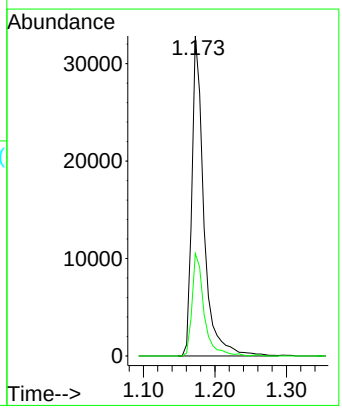
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

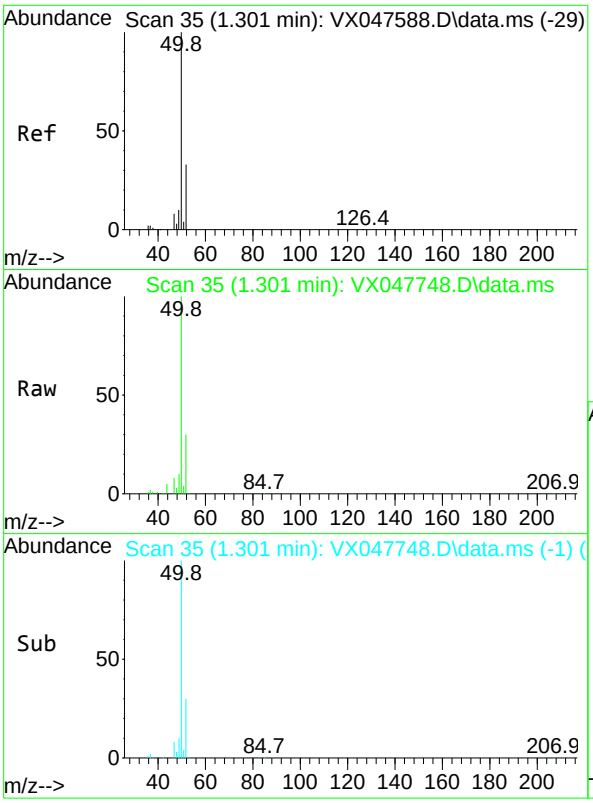


#2
Dichlorodifluoromethane
Concen: 23.585 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 85 Resp: 38327

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.8	47.3

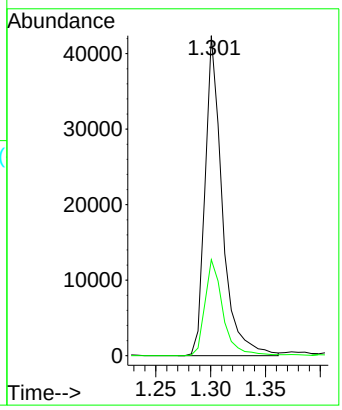




#3
Chloromethane
Concen: 21.693 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 50 Resp: 4633

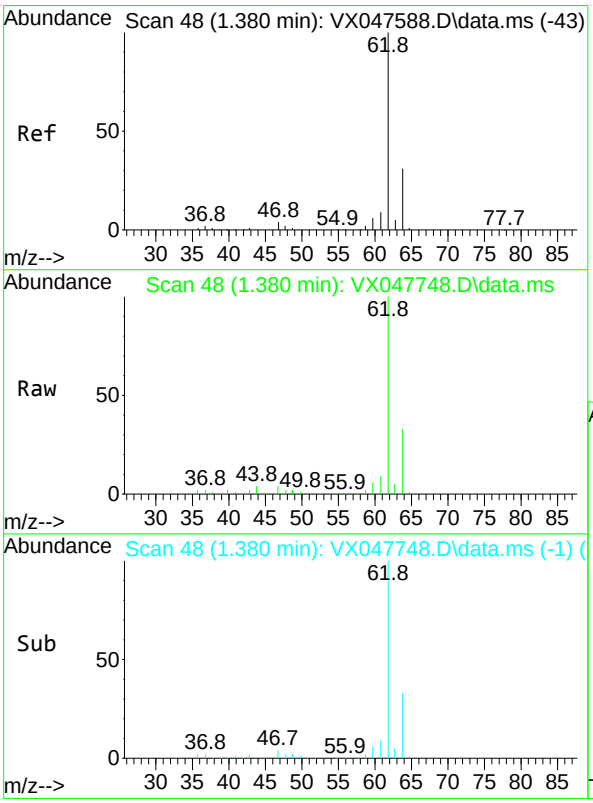
Ion	Ratio	Lower	Upper
50	100		
52	30.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

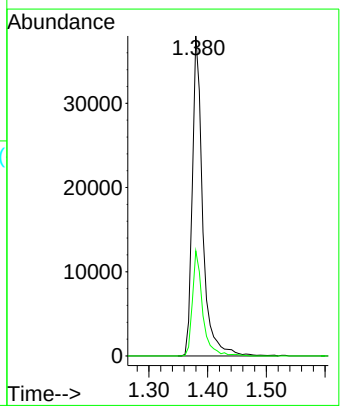
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

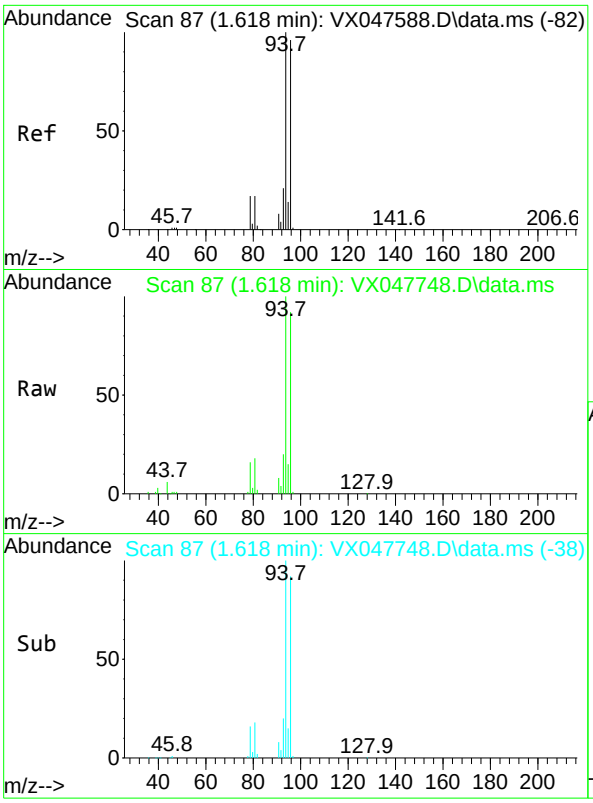


#4
Vinyl Chloride
Concen: 22.415 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 46862

Ion	Ratio	Lower	Upper
62	100		
64	32.9	24.9	37.3





#5
Bromomethane
Concen: 23.536 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

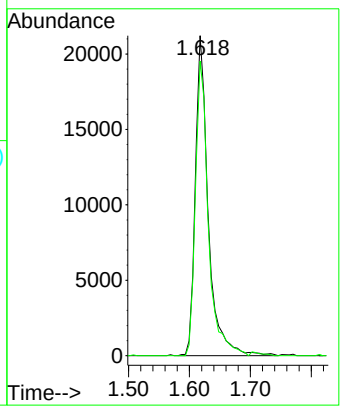
Tgt Ion: 94 Resp: 3120

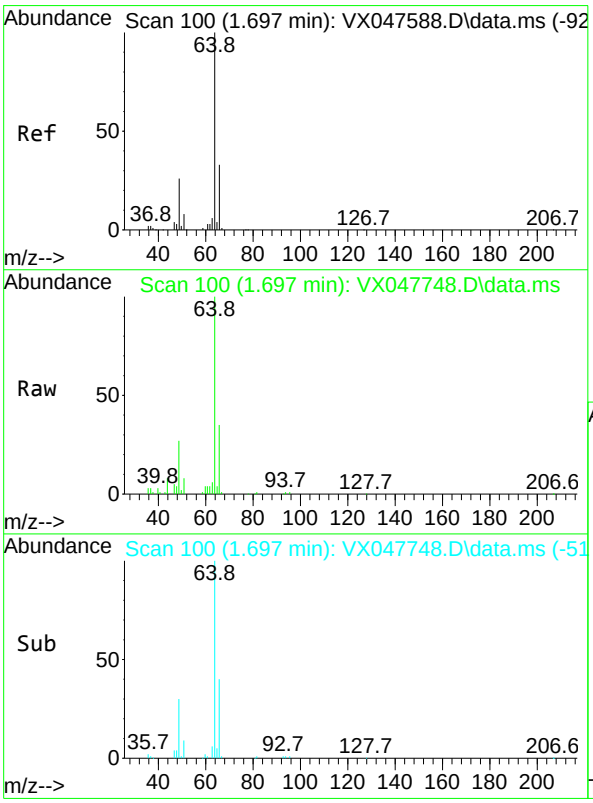
Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.6	115.0

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

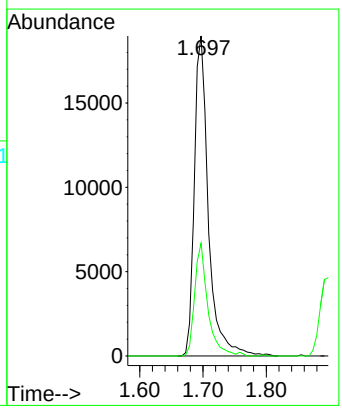


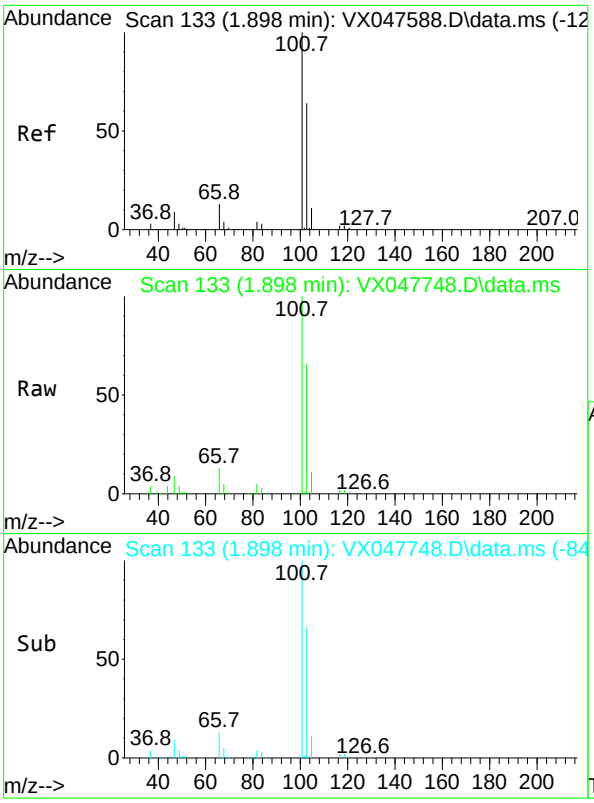


#6
Chloroethane
Concen: 21.002 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 64 Resp: 29347

Ion	Ratio	Lower	Upper
64	100		
66	35.2	26.1	39.1

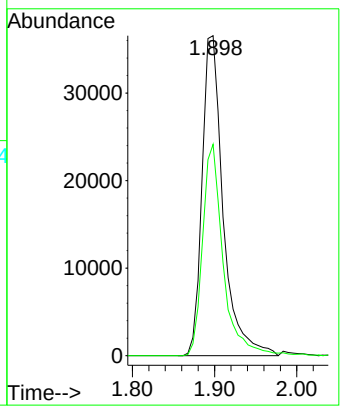




#7
Trichlorofluoromethane
Concen: 20.934 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:101 Resp: 6498

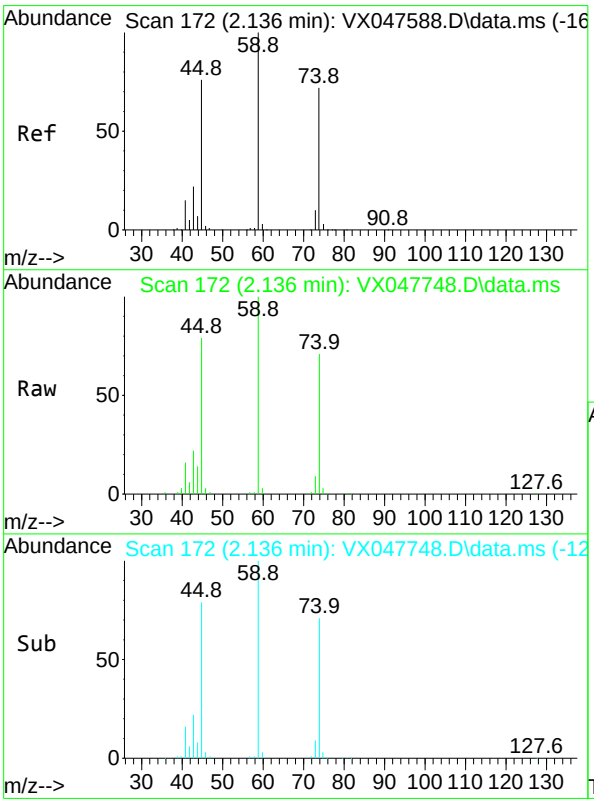
Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

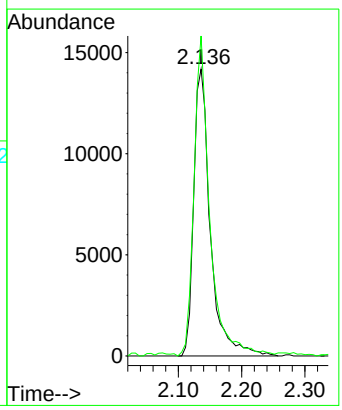
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

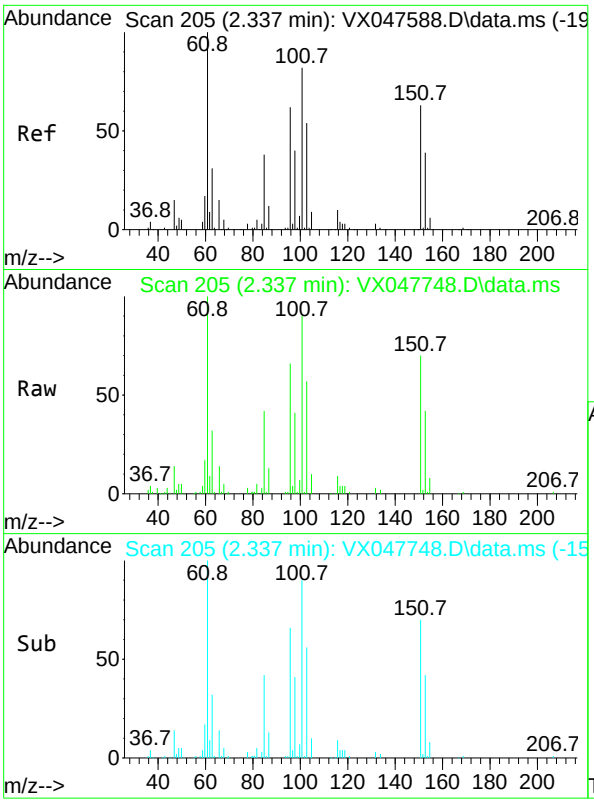


#8
Diethyl Ether
Concen: 20.423 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 74 Resp: 25934

Ion	Ratio	Lower	Upper
74	100		
45	106.7	52.3	156.8

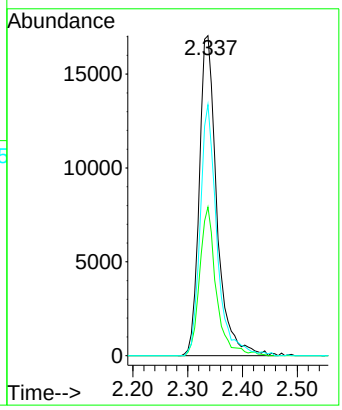




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.007 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:101 Resp: 3813

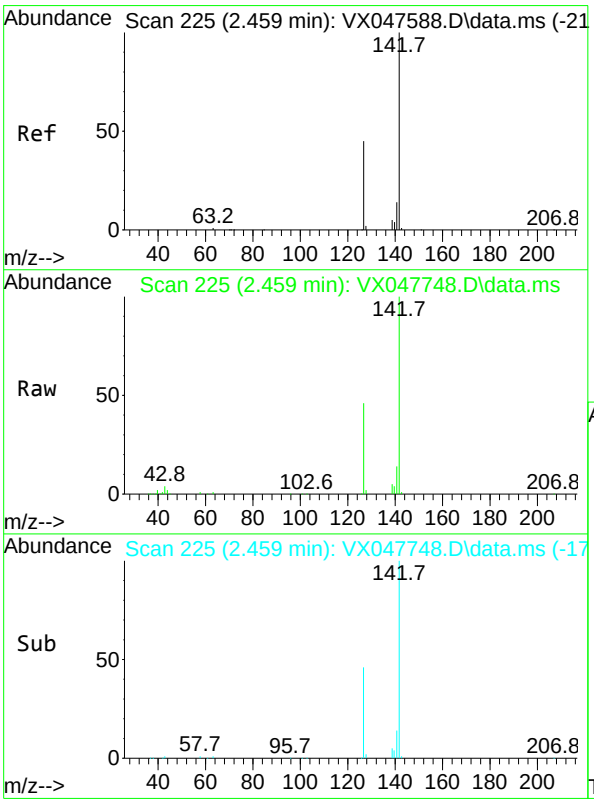
Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.5	53.3
151	74.3	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

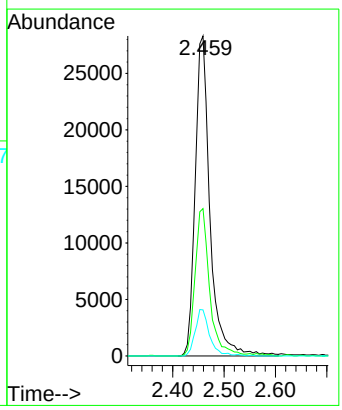
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

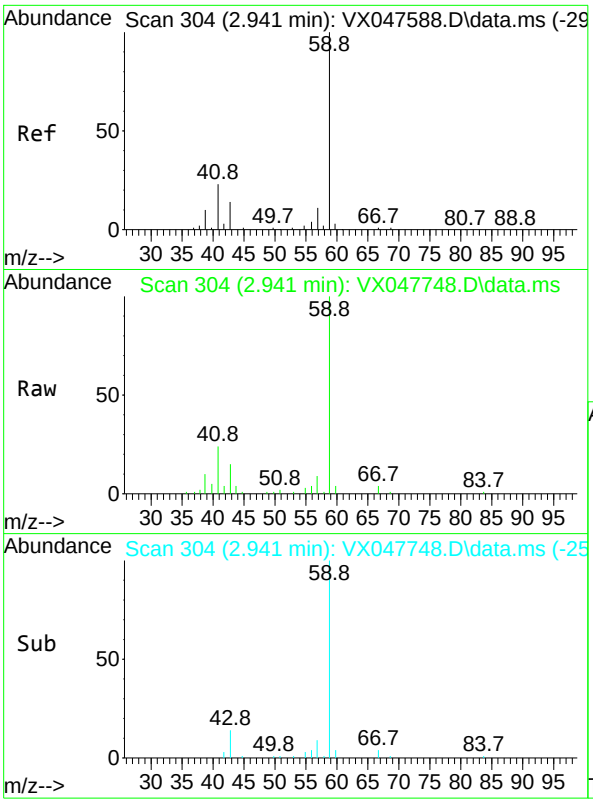


#10
Methyl Iodide
Concen: 20.040 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:142 Resp: 56731

Ion	Ratio	Lower	Upper
142	100		
127	45.4	37.2	55.8
141	13.9	11.4	17.0

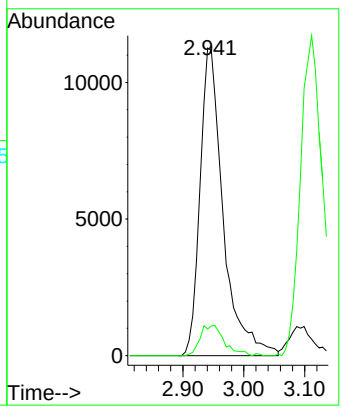




#11
Tert butyl alcohol
Concen: 107.025 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 59 Resp: 2977

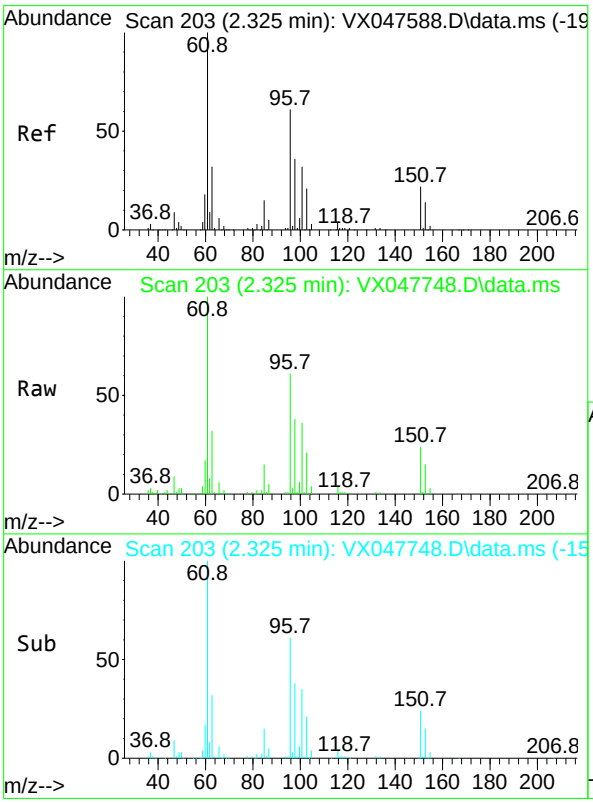
Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

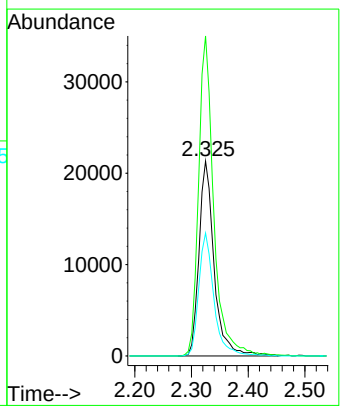
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

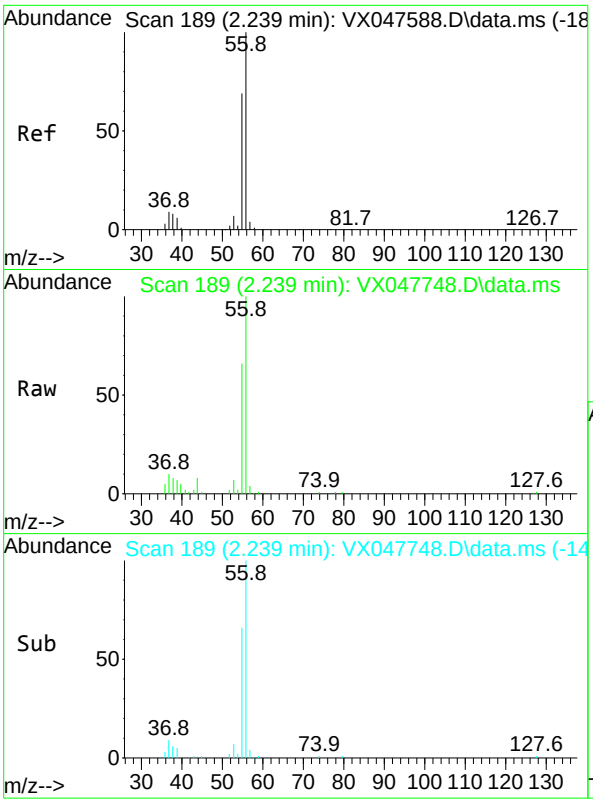


#12
1,1-Dichloroethene
Concen: 21.165 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 39463

Ion	Ratio	Lower	Upper
96	100		
61	164.2	131.0	196.6
98	63.1	47.7	71.5

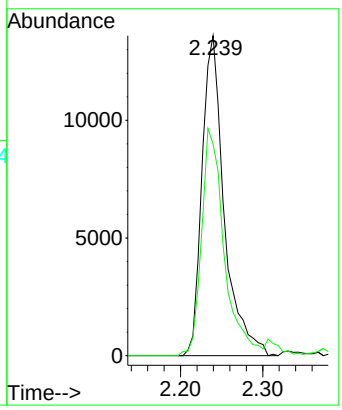




#13
Acrolein
Concen: 99.449 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 56 Resp: 2549

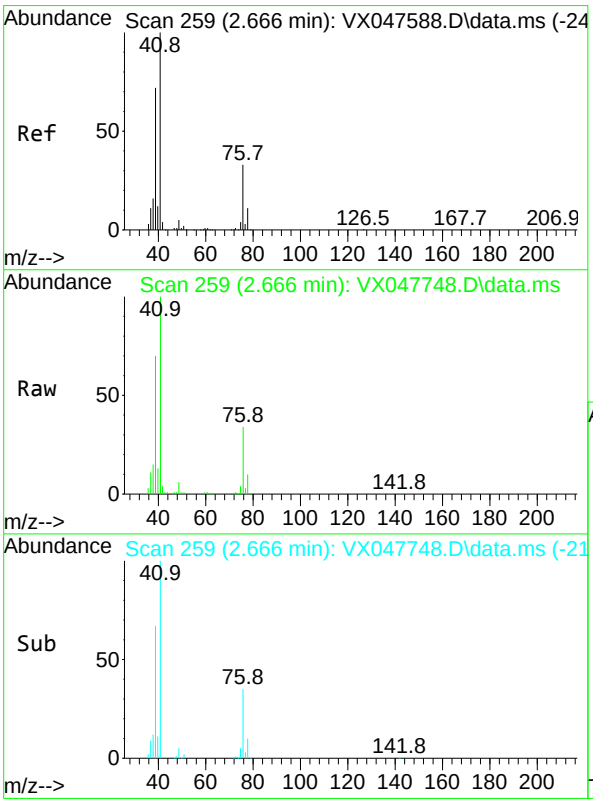
Ion	Ratio	Lower	Upper
56	100		
55	72.0	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

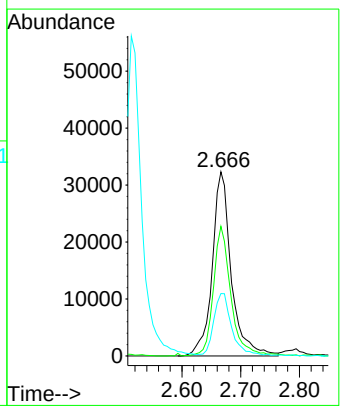
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

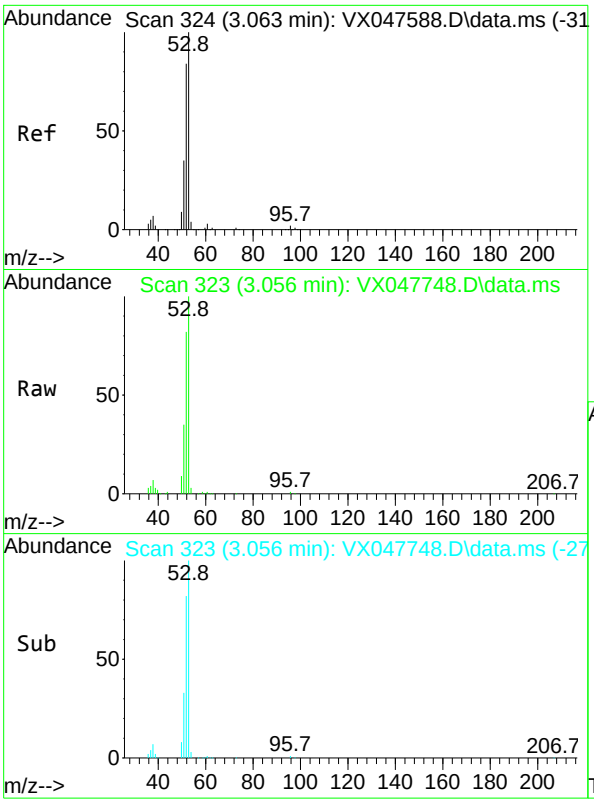


#14
Allyl chloride
Concen: 18.949 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 72907

Ion	Ratio	Lower	Upper
41	100		
39	65.0	54.7	82.1
76	31.9	25.7	38.5





#15
Acrylonitrile
Concen: 113.065 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

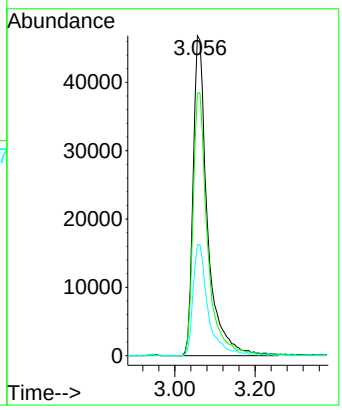
Tgt Ion: 53 Resp: 11651

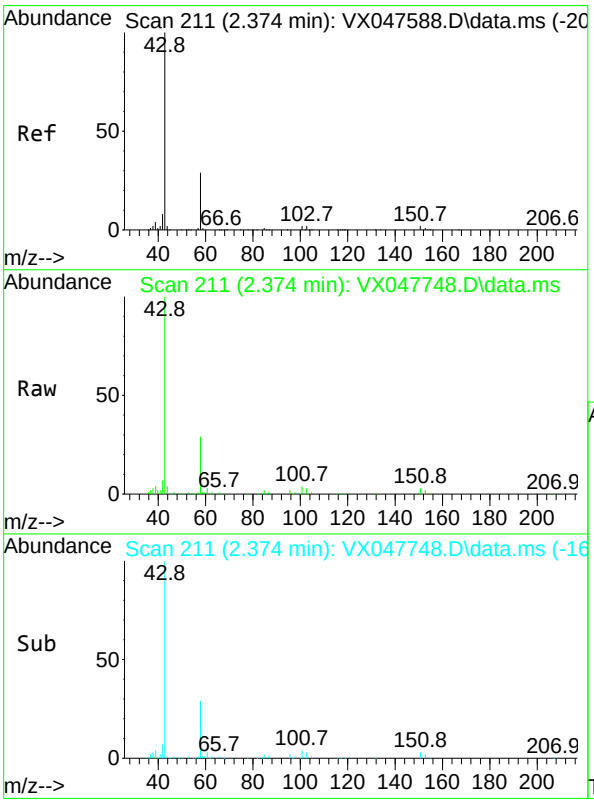
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.4	99.6
51	36.5	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

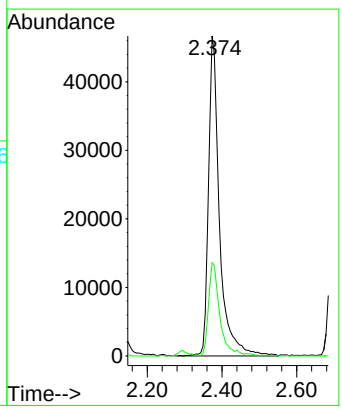


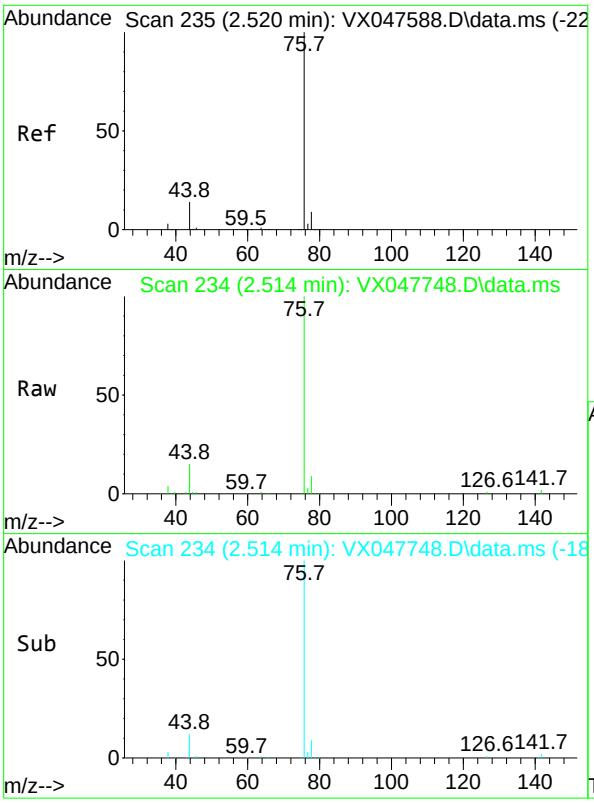


#16
Acetone
Concen: 87.685 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 95237

Ion	Ratio	Lower	Upper
43	100		
58	29.1	23.4	35.0

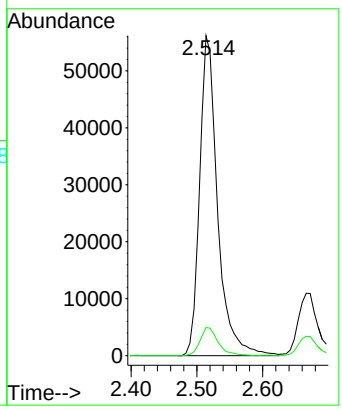




#17
Carbon Disulfide
Concen: 20.869 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 76 Resp: 10652

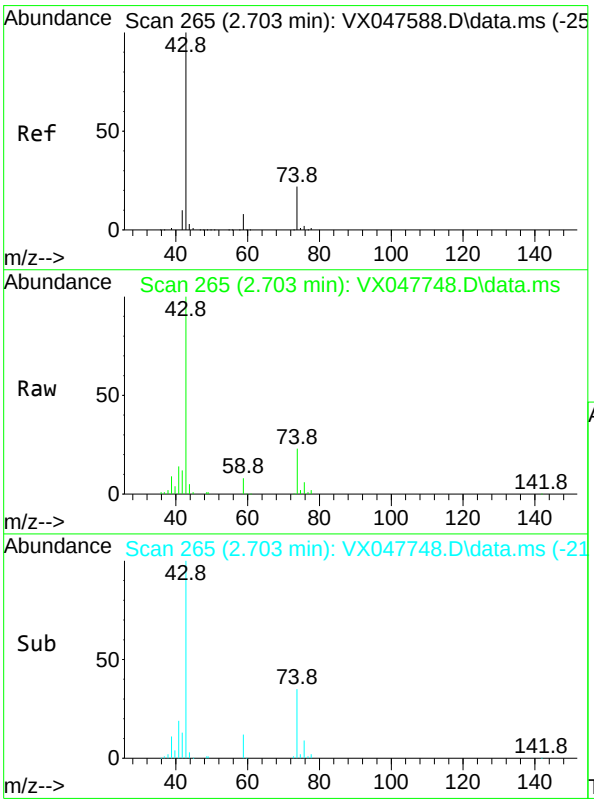
Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

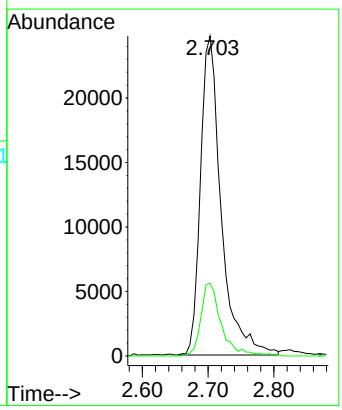
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

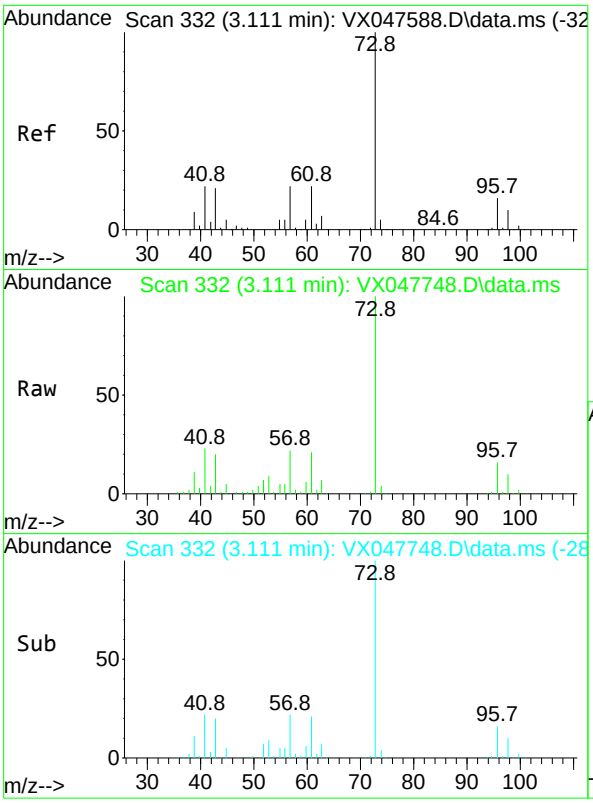


#18
Methyl Acetate
Concen: 22.400 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 54144

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.4	26.2

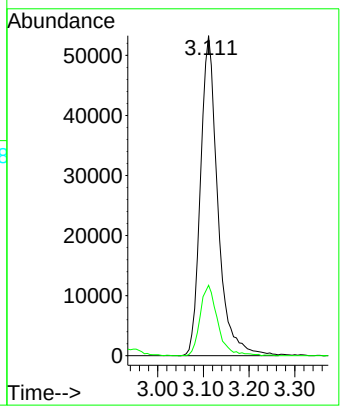




#19
Methyl tert-butyl Ether
Concen: 20.586 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 73 Resp: 14011

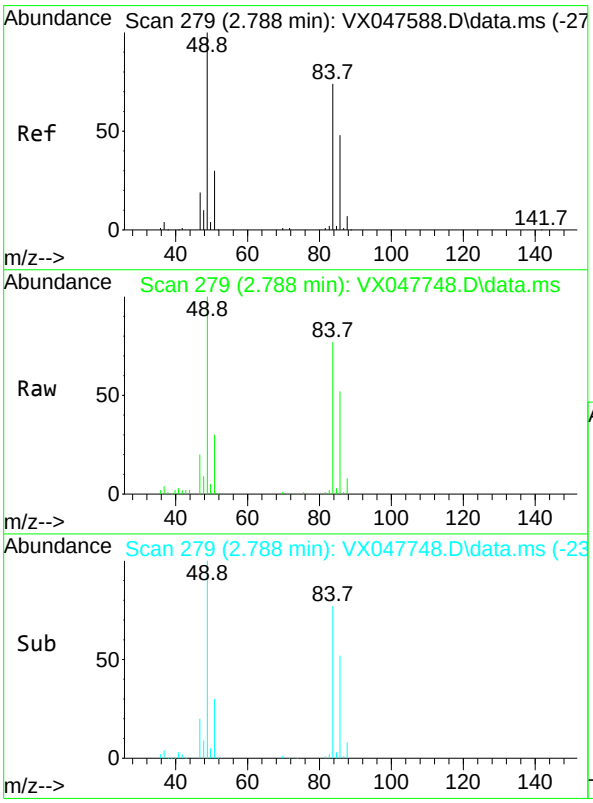
Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

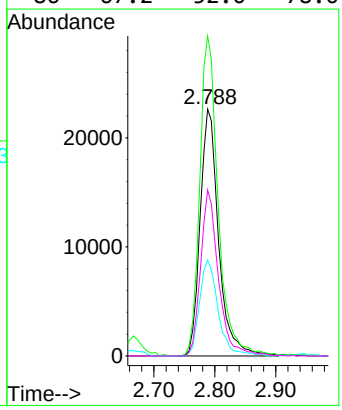
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

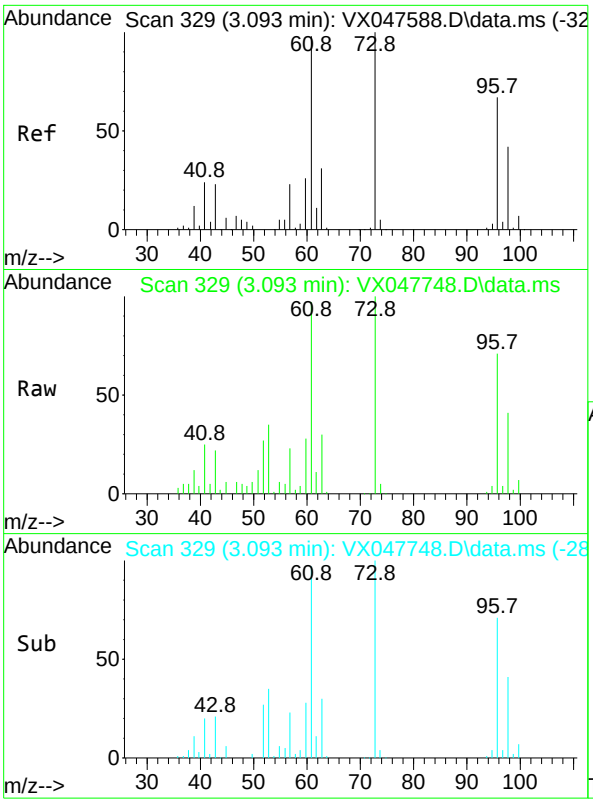


#20
Methylene Chloride
Concen: 20.740 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 84 Resp: 47681

Ion	Ratio	Lower	Upper
84	100		
49	129.6	108.6	162.8
51	38.9	32.6	48.8
86	67.2	52.0	78.0

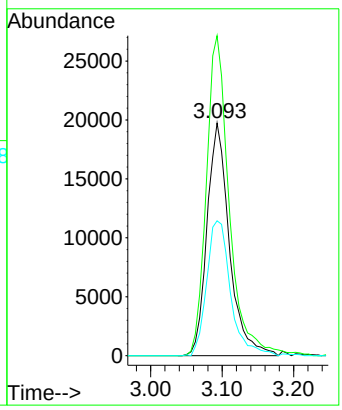




#21
trans-1,2-Dichloroethene
Concen: 21.362 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 4288

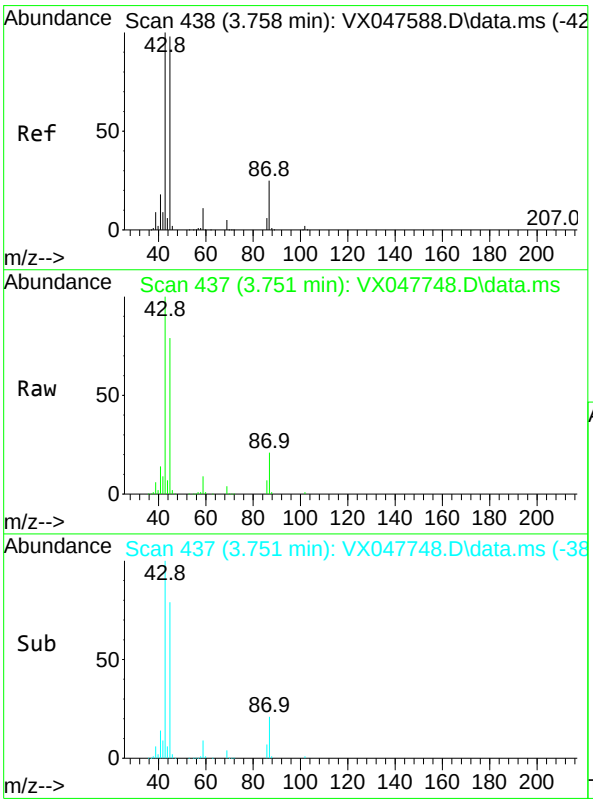
Ion	Ratio	Lower	Upper
96	100		
61	137.6	116.2	174.2
98	58.0	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

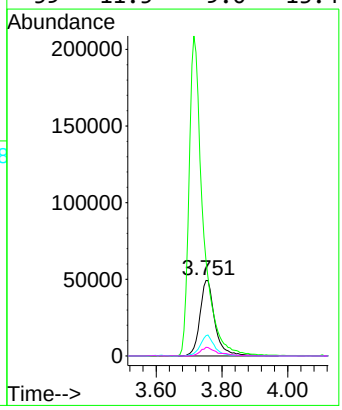
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

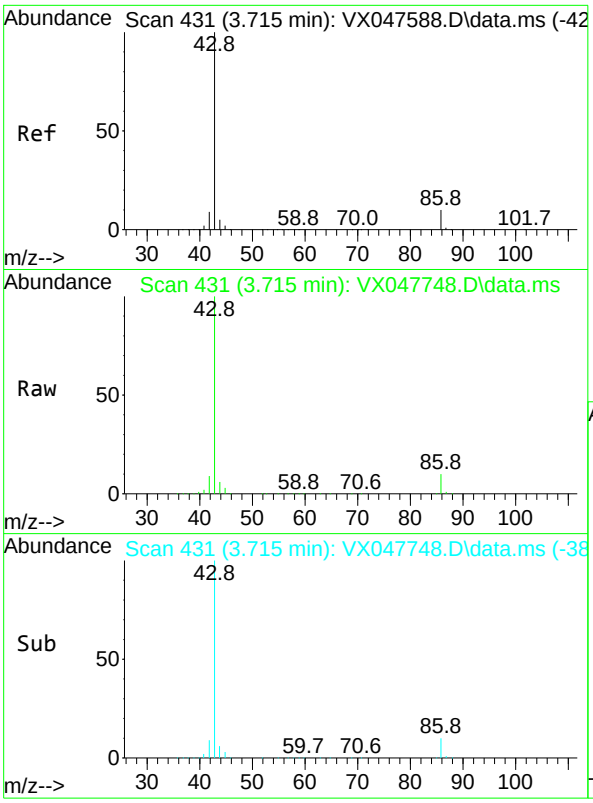


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 45 Resp: 155798

Ion	Ratio	Lower	Upper
45	100		
43	125.6	81.0	121.4#
87	26.9	20.3	30.5
59	11.5	9.0	13.4

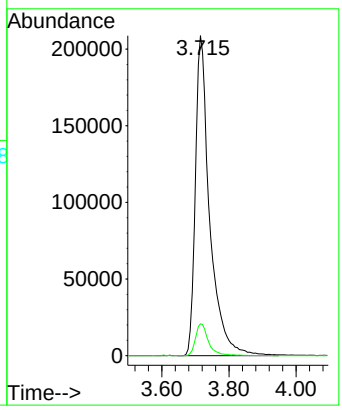




#23
Vinyl Acetate
Concen: 103.461 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 61743

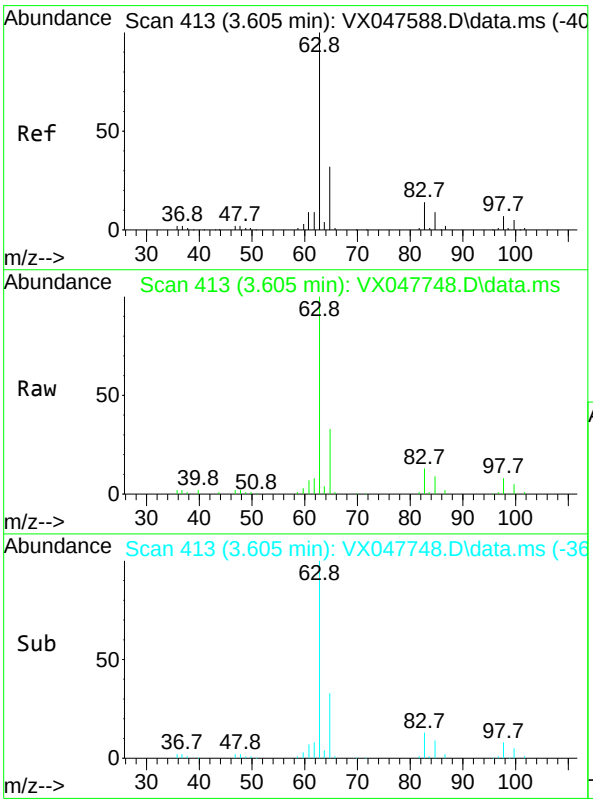
Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

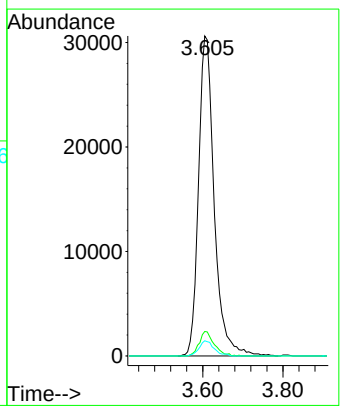
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

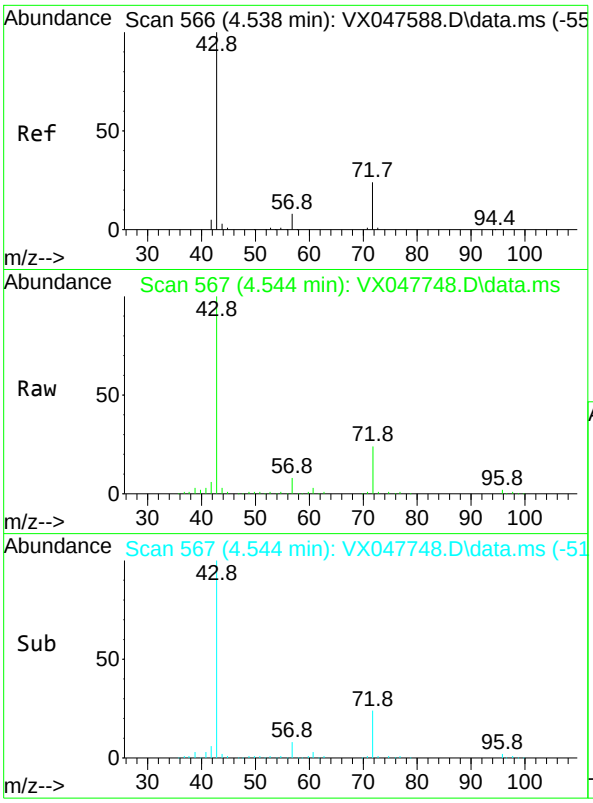


#24
1,1-Dichloroethane
Concen: 21.012 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 83274

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.8	11.2
100	4.8	2.3	6.9

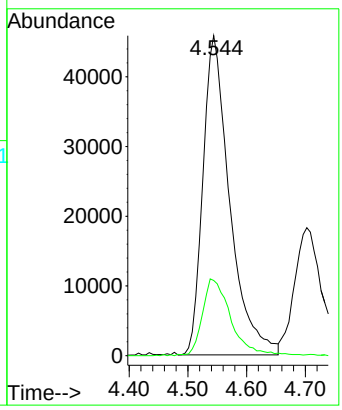




#25
2-Butanone
Concen: 106.972 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 14492

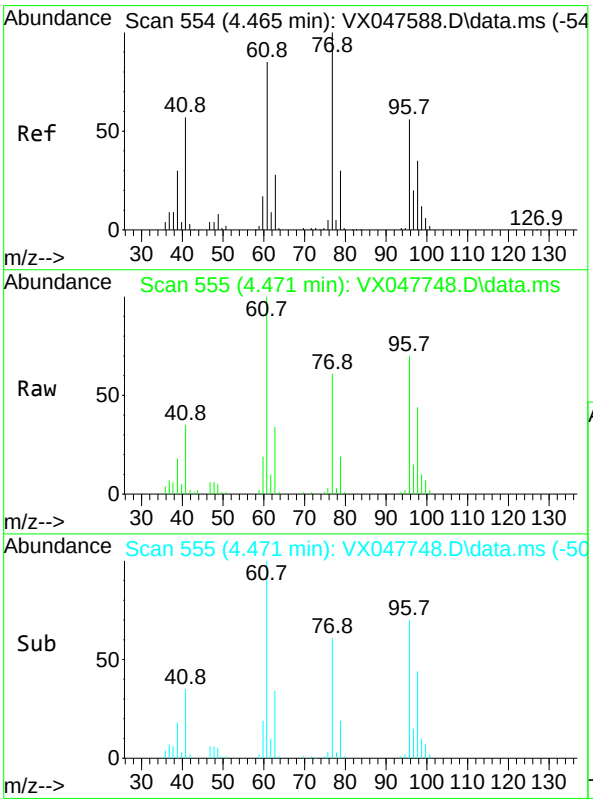
Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

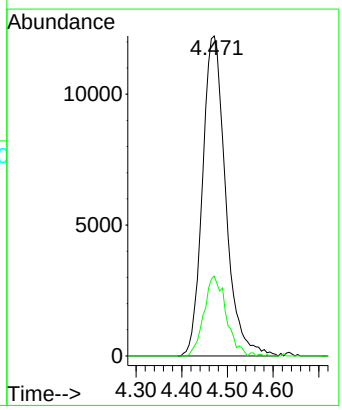
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

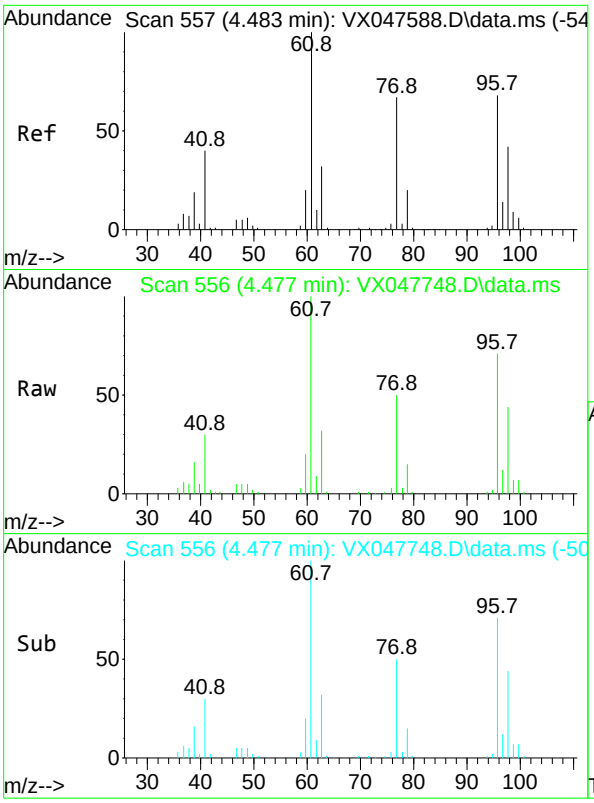


#26
2,2-Dichloropropane
Concen: 13.043 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 77 Resp: 42968

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7

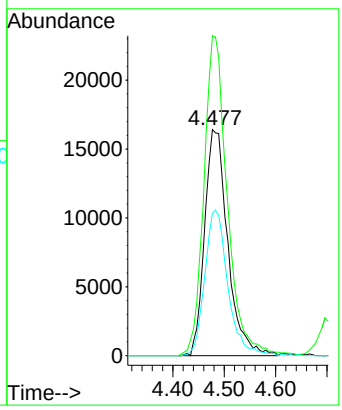




#27
cis-1,2-Dichloroethene
Concen: 20.894 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 5136

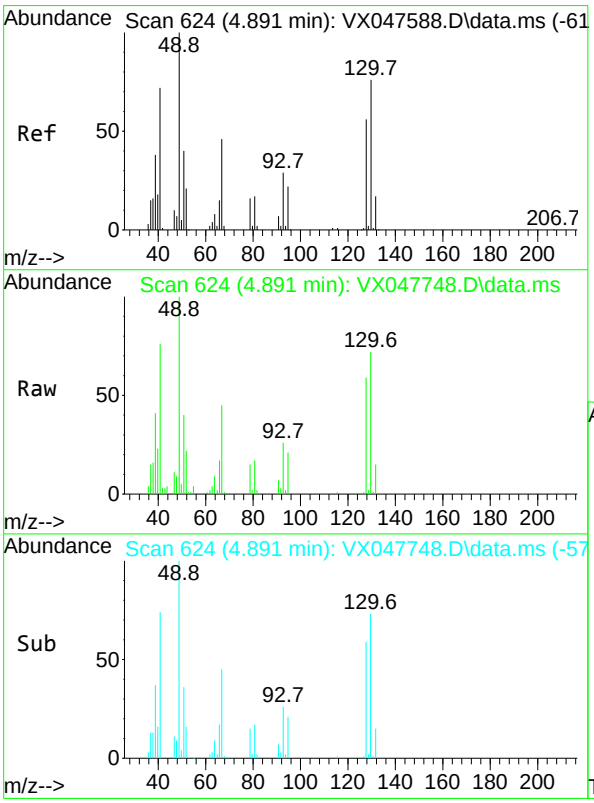
Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	303.2
98	64.2	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

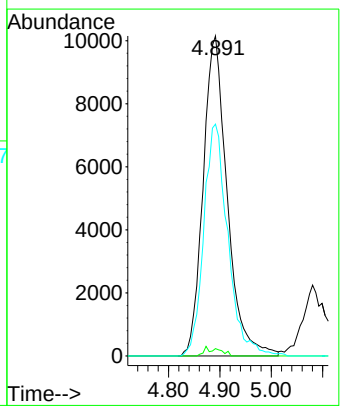
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

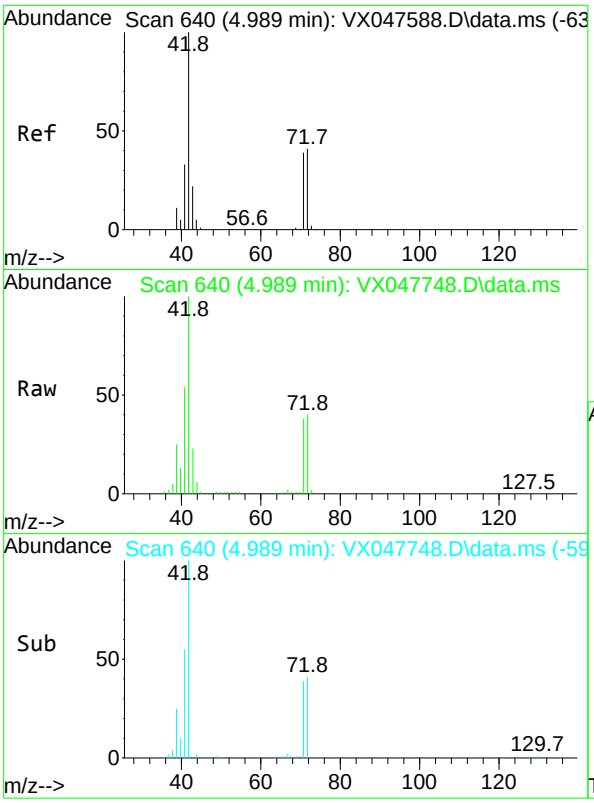


#28
Bromochloromethane
Concen: 19.085 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 49 Resp: 33021

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.2
130	72.6	57.8	86.8





#29
Tetrahydrofuran
Concen: 114.248 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

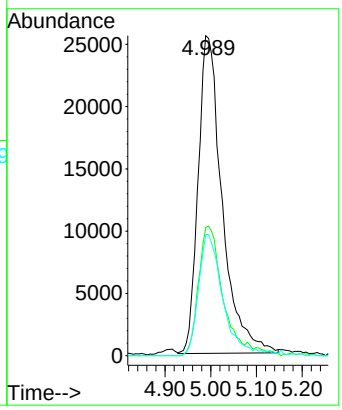
Tgt Ion: 42 Resp: 9311

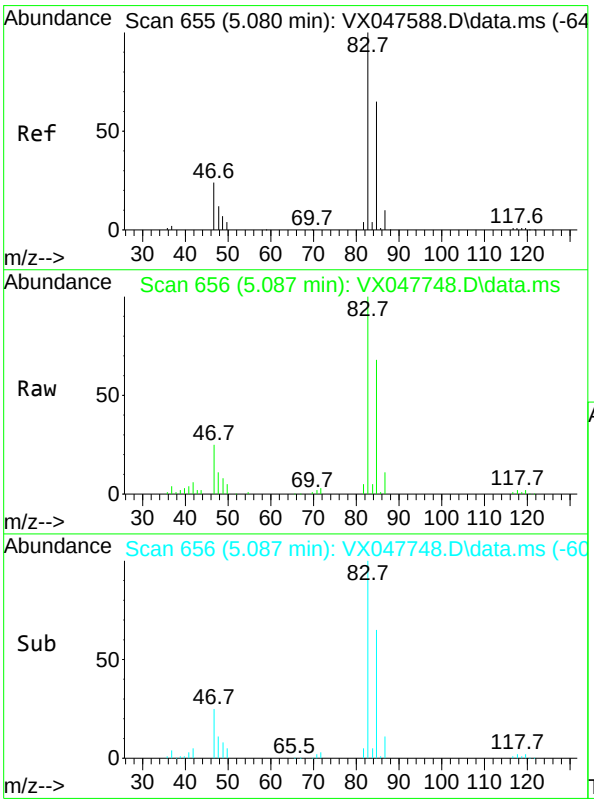
Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.0	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

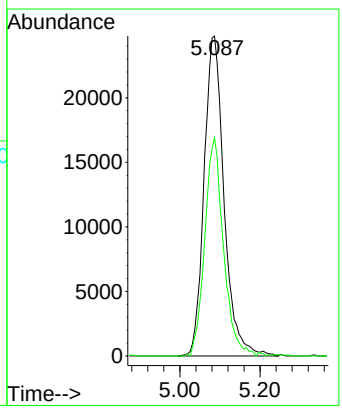


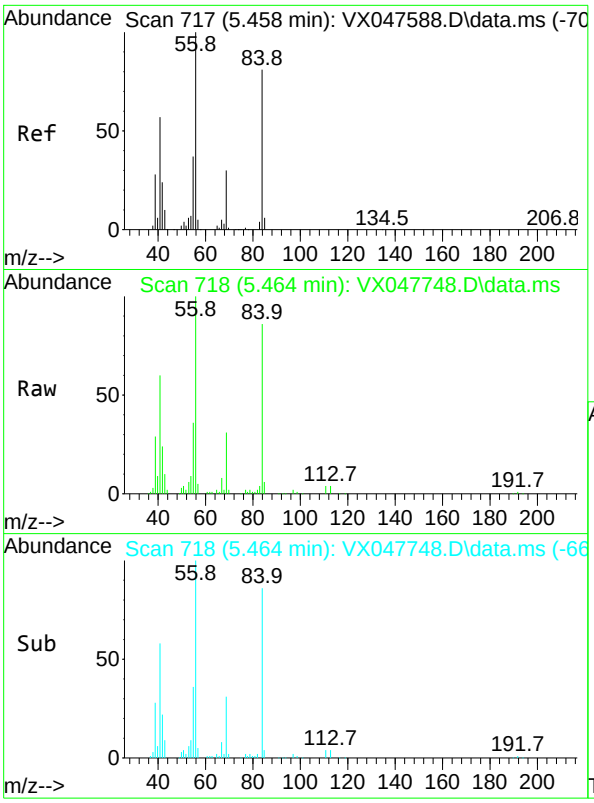


#30
Chloroform
Concen: 21.345 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 85486

Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.8	77.6

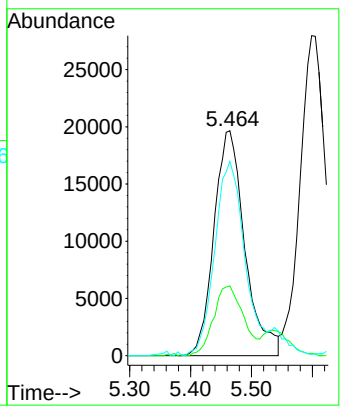




#31
Cyclohexane
Concen: 20.939 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 56 Resp: 6911

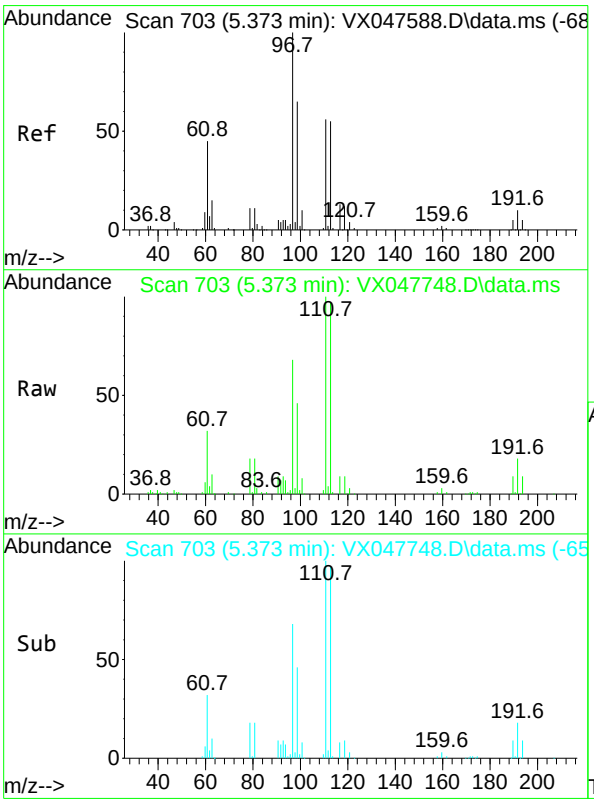
Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	84.6	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

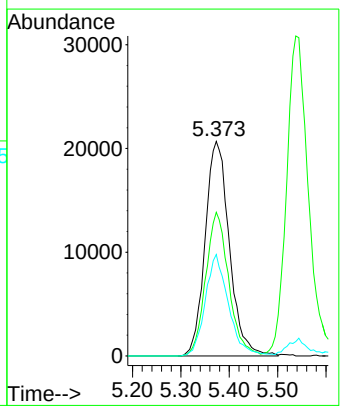
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

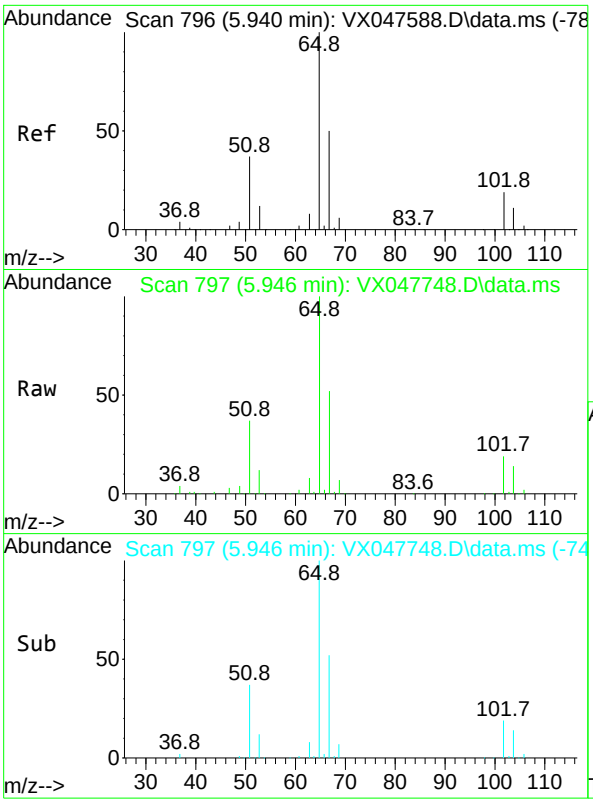


#32
1,1,1-Trichloroethane
Concen: 21.168 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 97 Resp: 71907

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	45.4	35.8	53.8

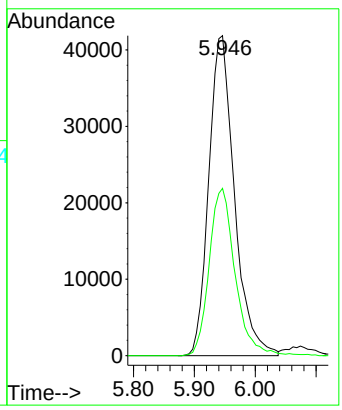




#33
1,2-Dichloroethane-d4
Concen: 48.994 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 65 Resp: 12238

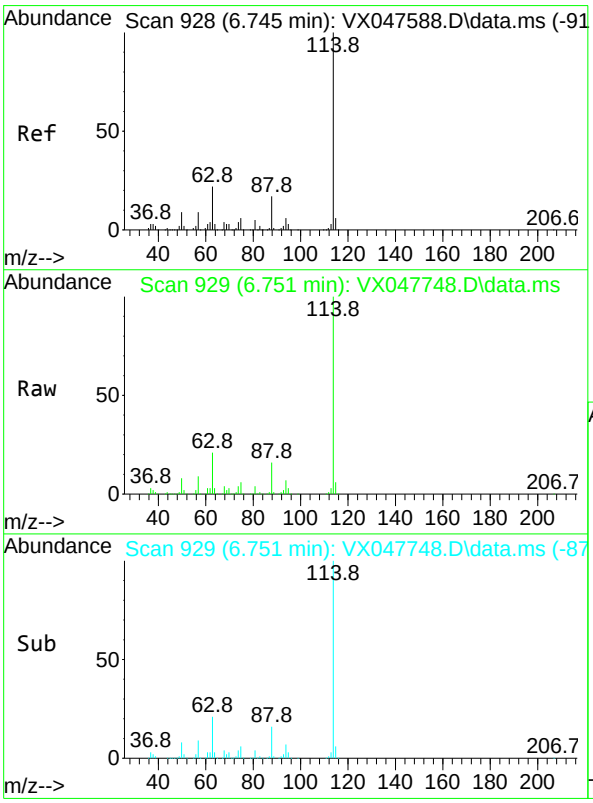
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

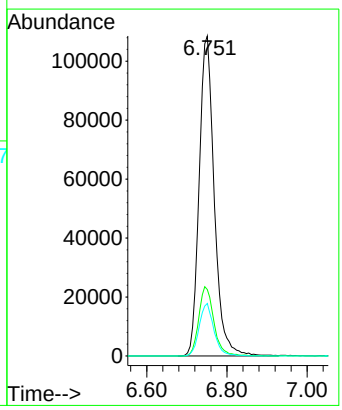
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

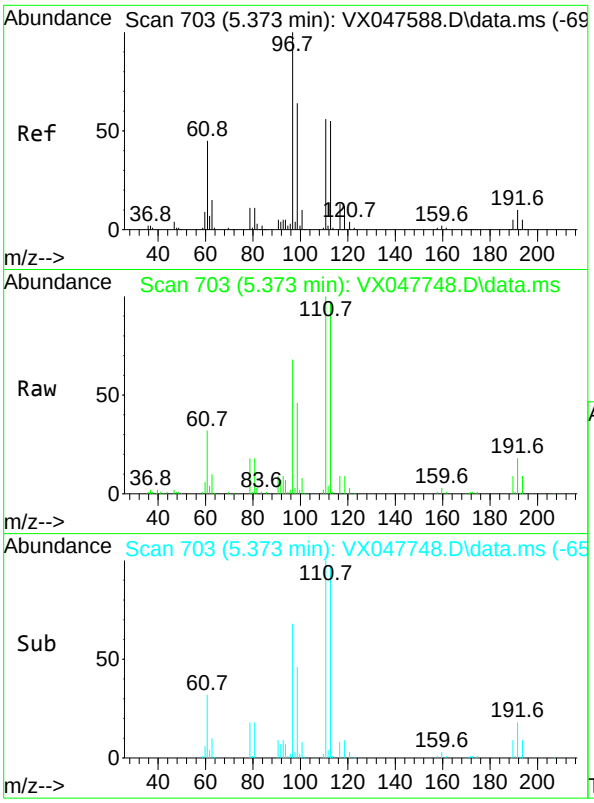


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:114 Resp: 284011

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	44.0
88	16.4	0.0	34.2

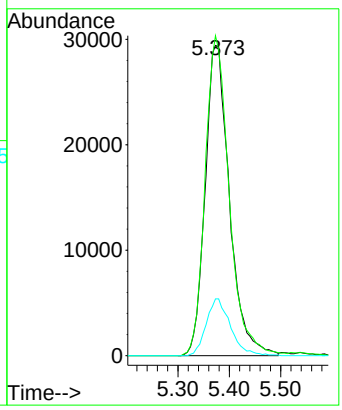




#35
Dibromofluoromethane
Concen: 50.711 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:113 Resp: 9659

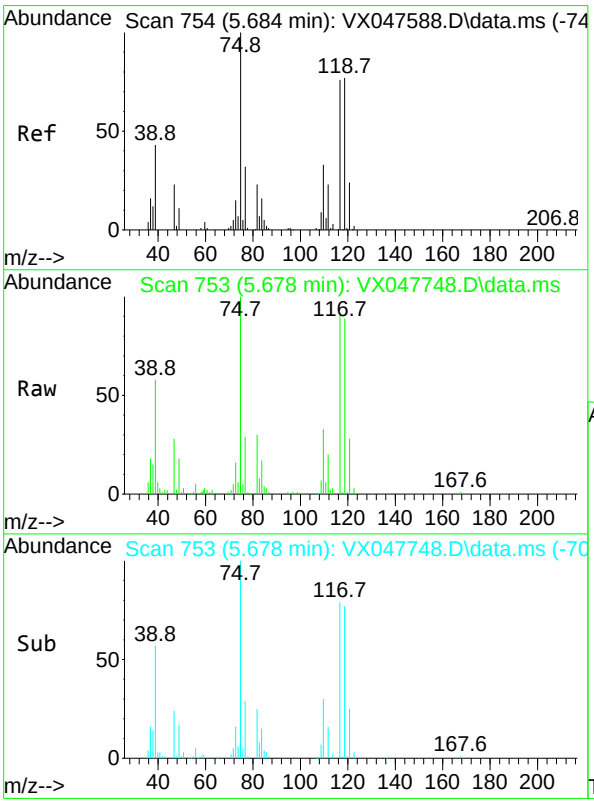
Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	18.4	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

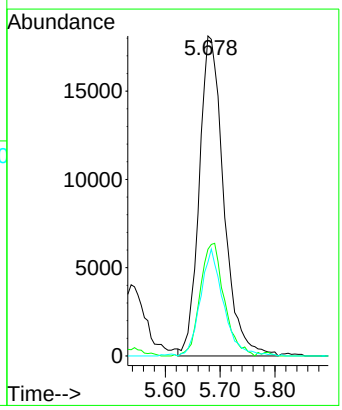
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

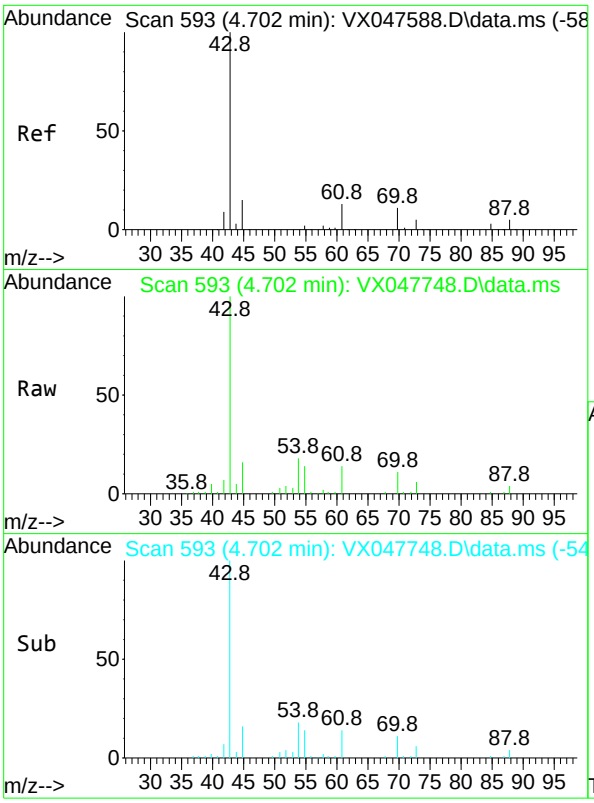


#36
1,1-Dichloropropene
Concen: 20.197 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 56214

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	31.5	24.3	36.5

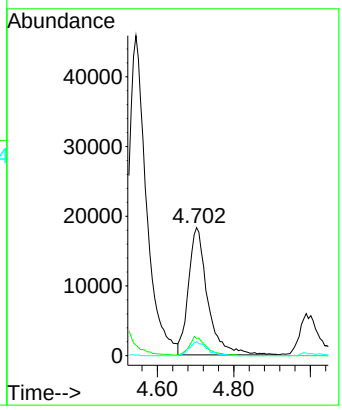




#37
Ethyl Acetate
Concen: 21.220 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 6323

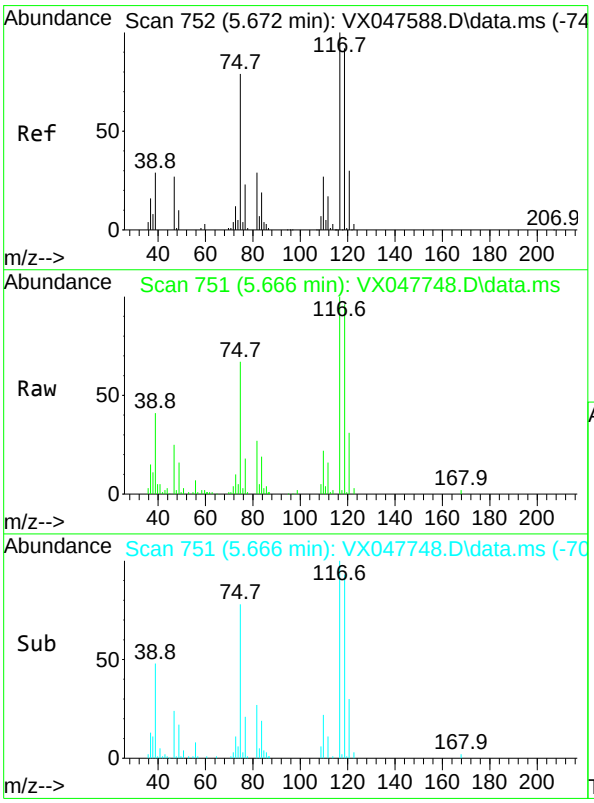
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.2	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

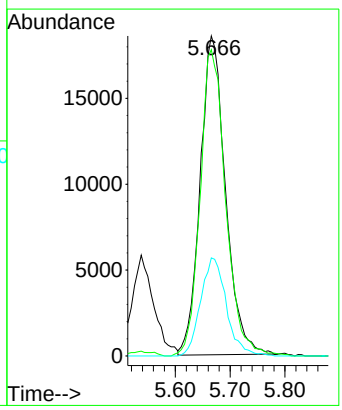
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

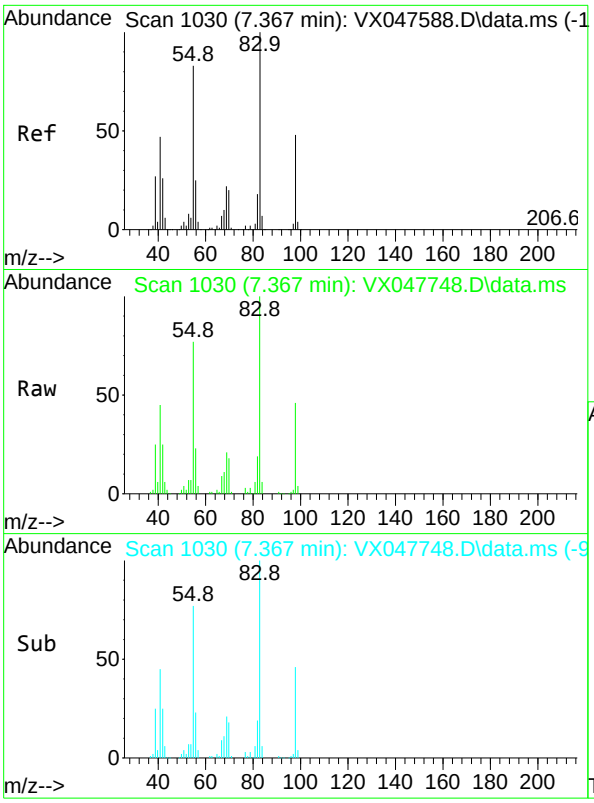


#38
Carbon Tetrachloride
Concen: 19.672 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 59490

Ion	Ratio	Lower	Upper
117	100		
119	95.6	73.4	110.2
121	30.8	23.8	35.6

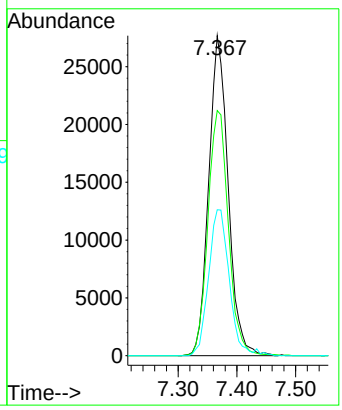




#39
Methylcyclohexane
Concen: 20.138 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 6362

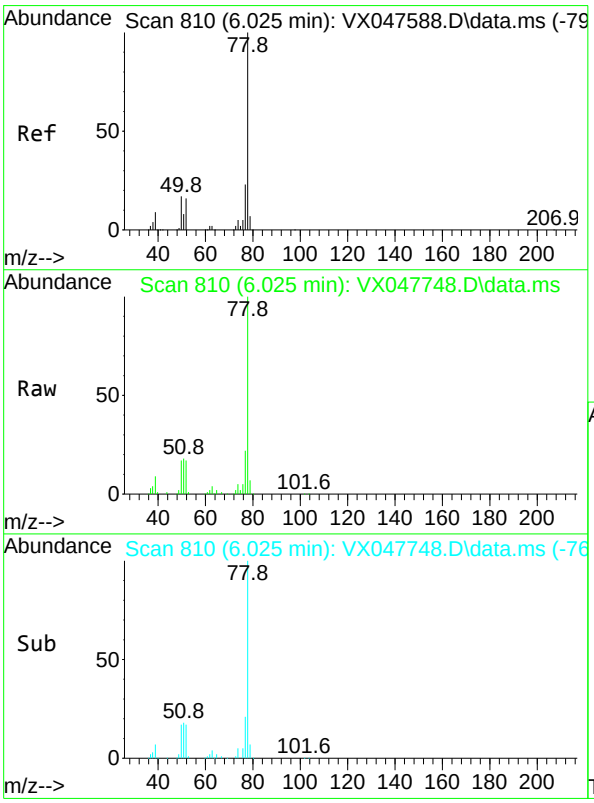
Ion	Ratio	Lower	Upper
83	100		
55	76.6	66.4	99.6
98	45.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

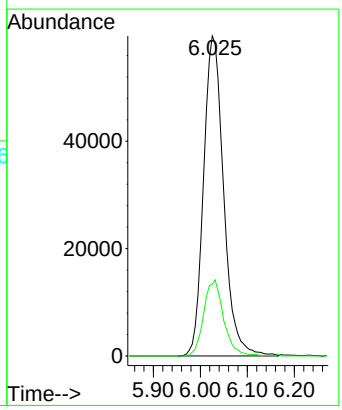
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

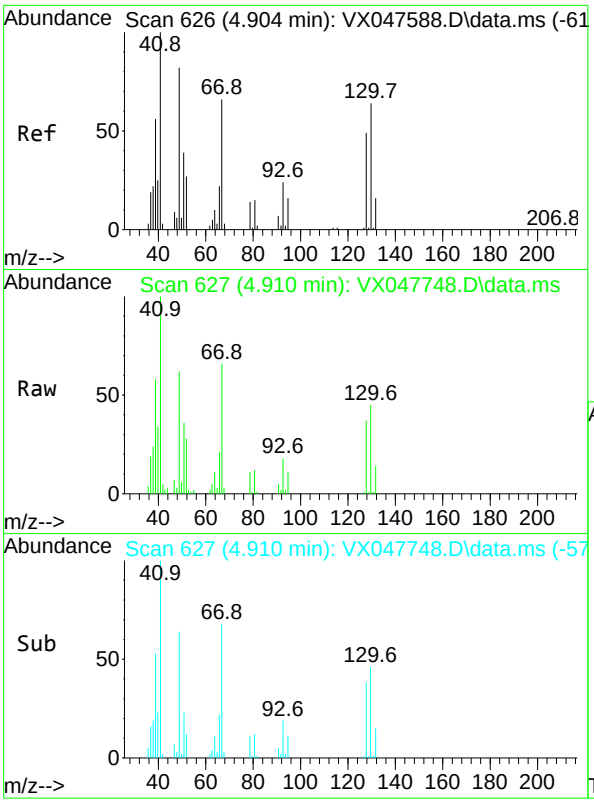


#40
Benzene
Concen: 20.873 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 78 Resp: 176451

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.8	28.2

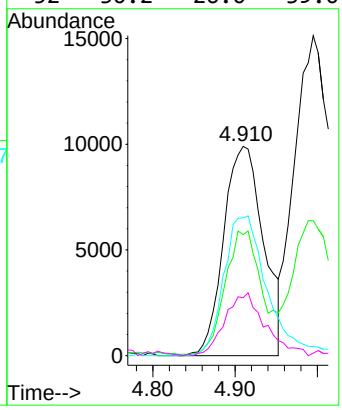




#41
Methacrylonitrile
Concen: 21.696 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 3337

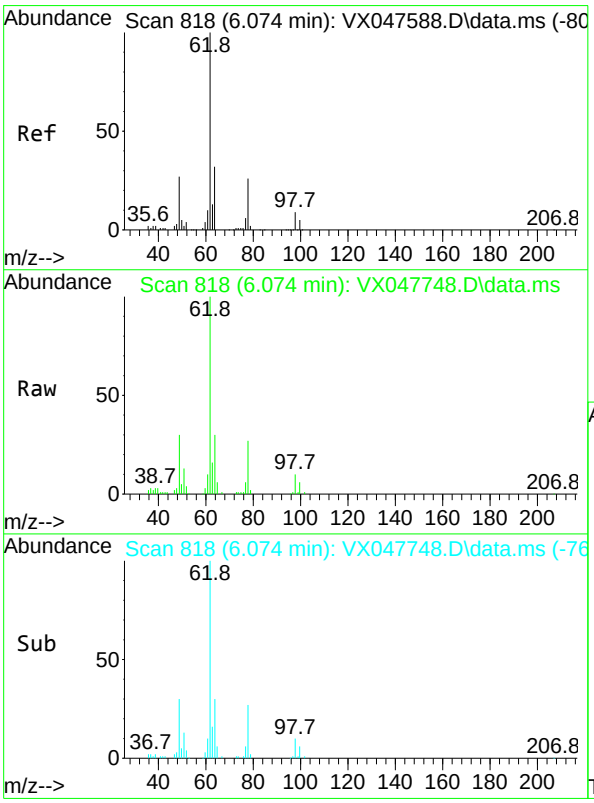
Ion	Ratio	Lower	Upper
41	100		
39	54.8	43.3	64.9
67	73.2	58.6	87.8
52	30.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

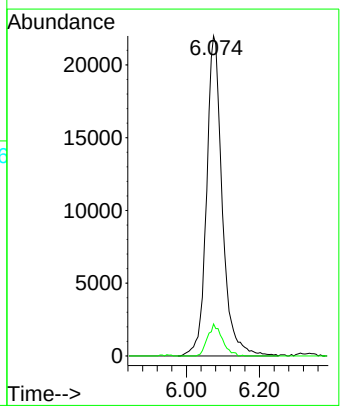
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

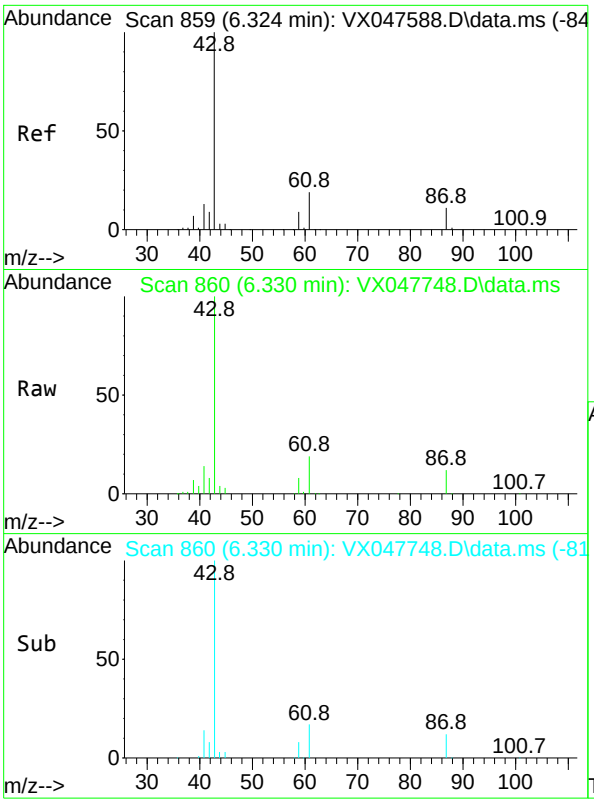


#42
1,2-Dichloroethane
Concen: 20.366 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 65506

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0

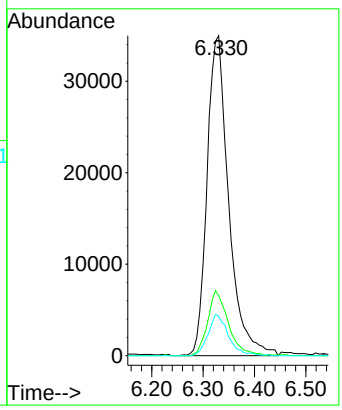




#43
Isopropyl Acetate
Concen: 20.917 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 10223

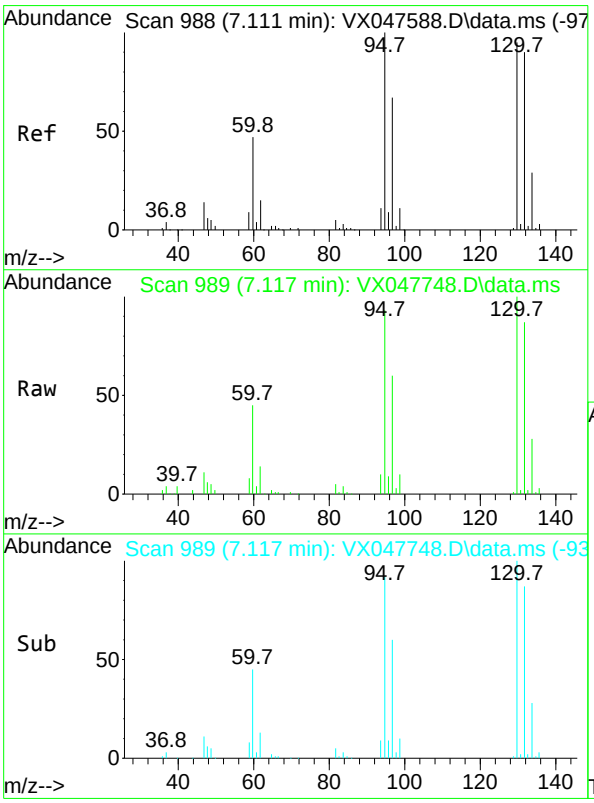
Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.1	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

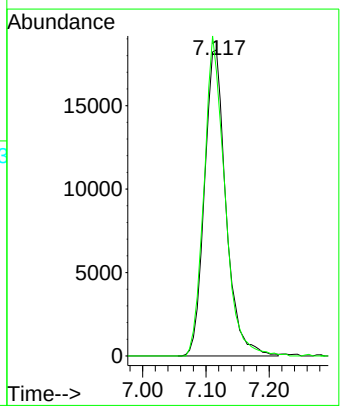
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

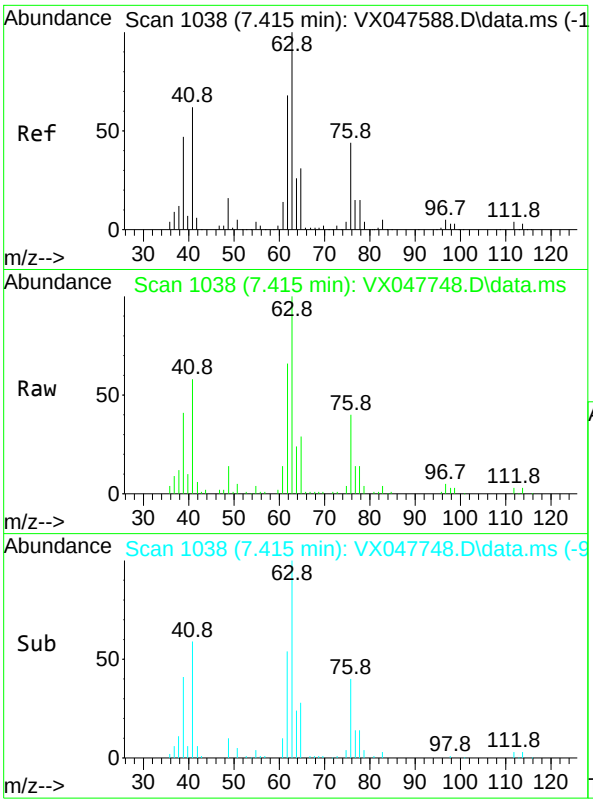


#44
Trichloroethene
Concen: 21.254 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:130 Resp: 43438

Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	210.8

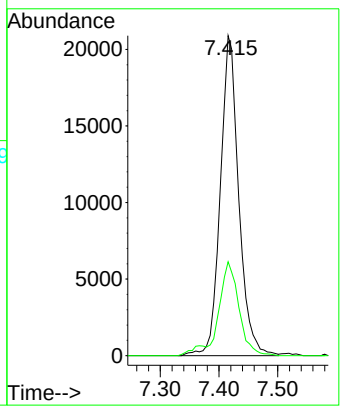




#45
1,2-Dichloropropane
Concen: 21.024 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 4550

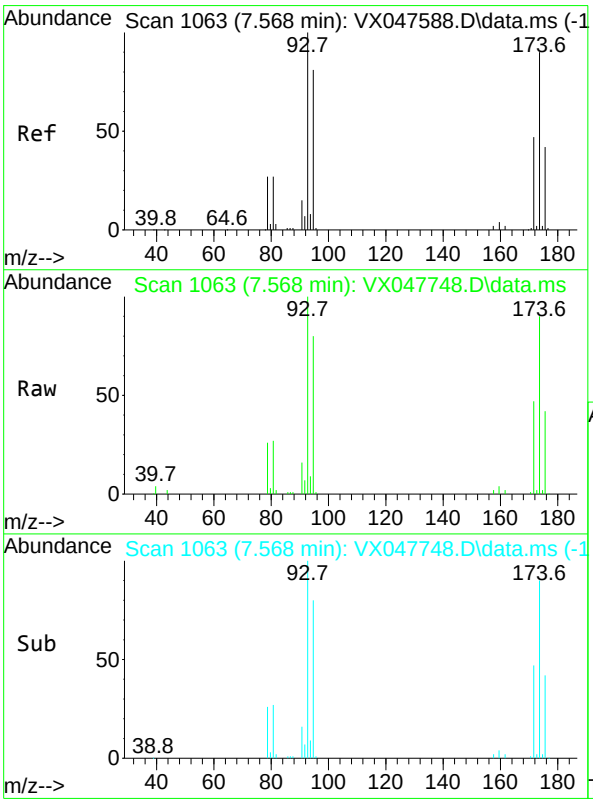
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

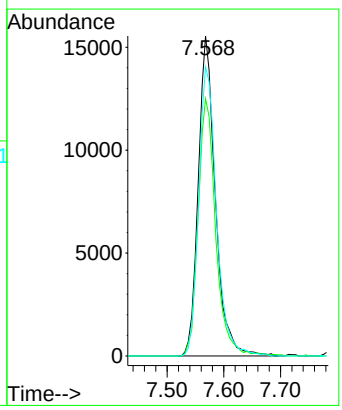
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

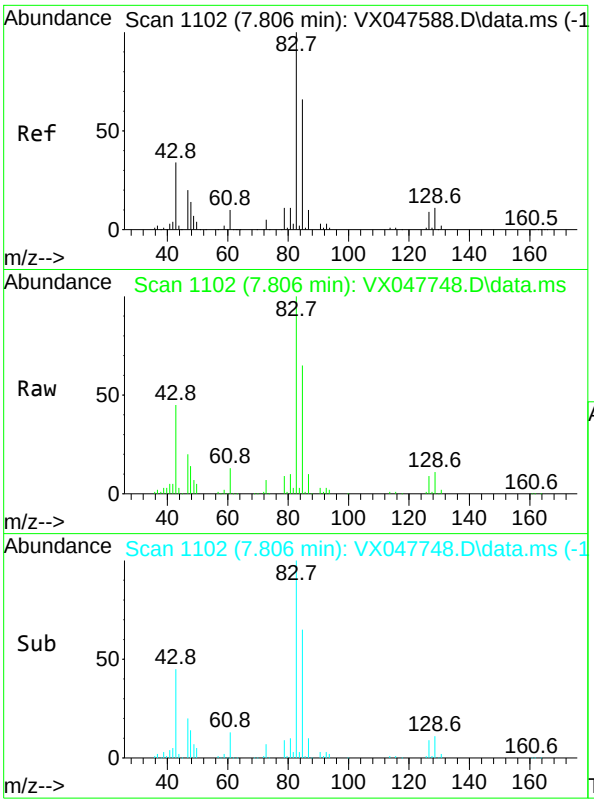


#46
Dibromomethane
Concen: 20.725 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 93 Resp: 32646

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	93.9	71.6	107.4

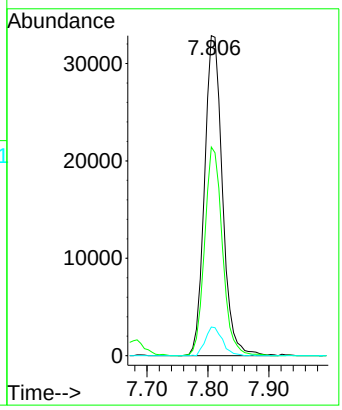




#47
Bromodichloromethane
Concen: 20.681 ug/l
RT: 7.806 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 6722

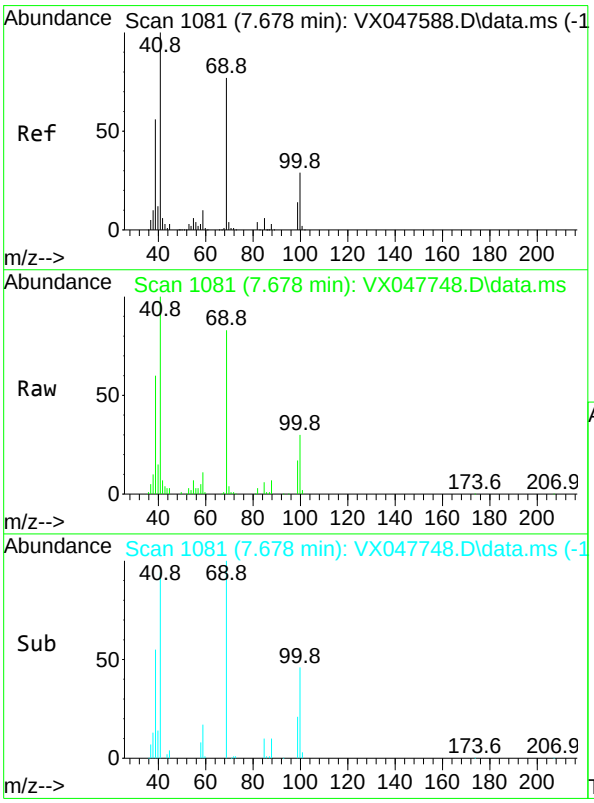
Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.5	78.7
127	8.9	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

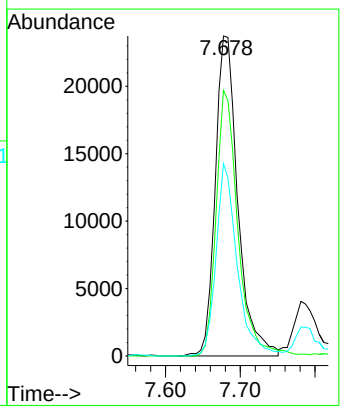
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

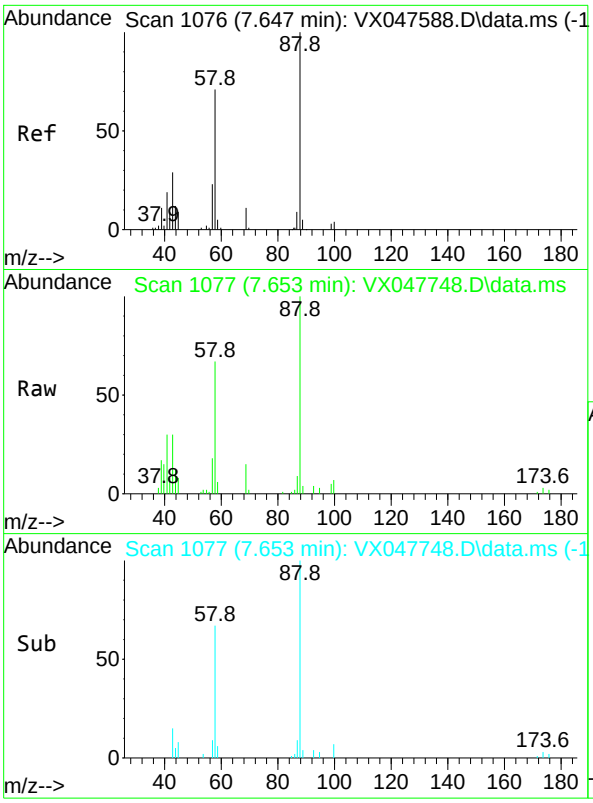


#48
Methyl methacrylate
Concen: 20.524 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 49967

Ion	Ratio	Lower	Upper
41	100		
69	80.1	61.4	92.2
39	56.5	45.8	68.6

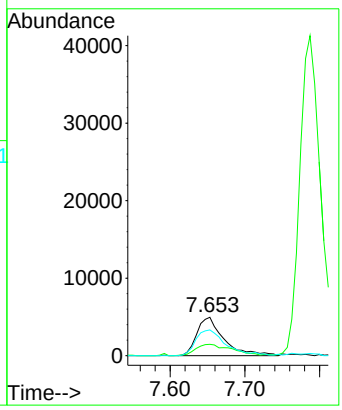




#49
1,4-Dioxane
Concen: 503.790 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 88 Resp: 1239

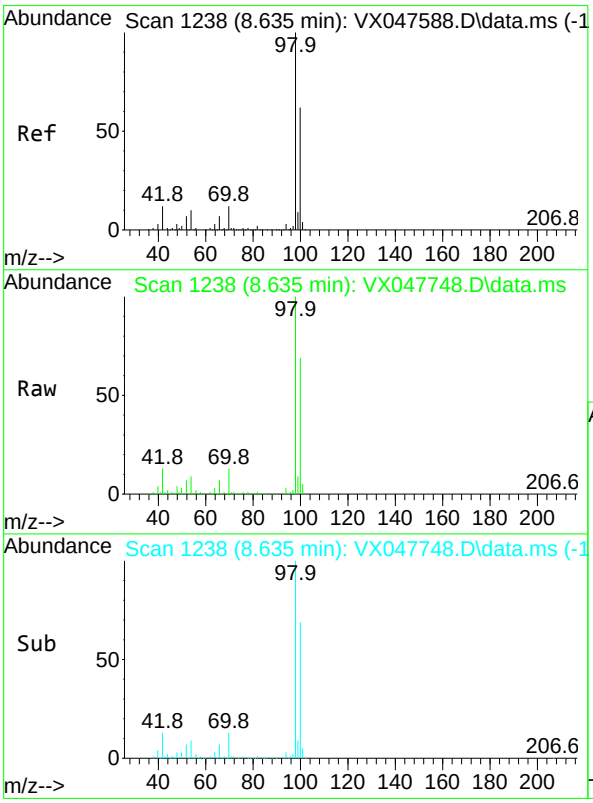
Ion	Ratio	Lower	Upper
88	100		
43	40.4	30.2	45.2
58	75.2	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

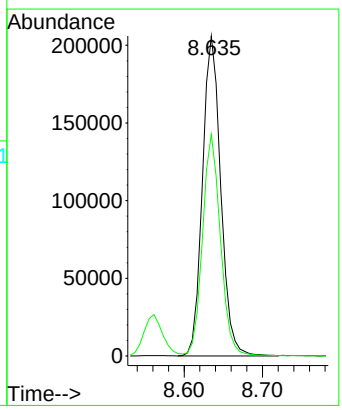
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

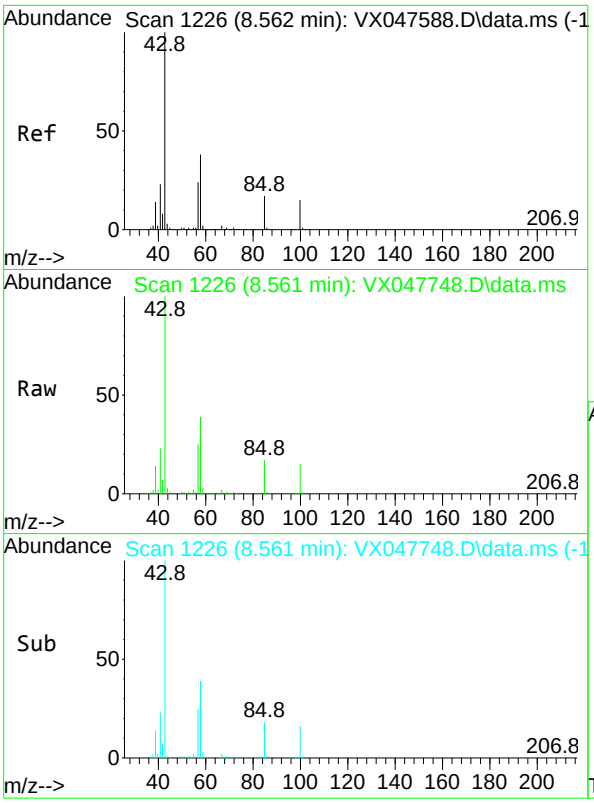


#50
Toluene-d8
Concen: 50.607 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 98 Resp: 333541

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4

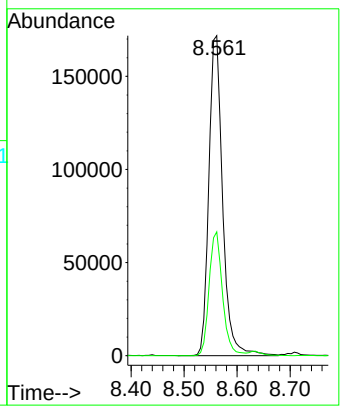




#51
4-Methyl-2-Pentanone
Concen: 114.468 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 31019

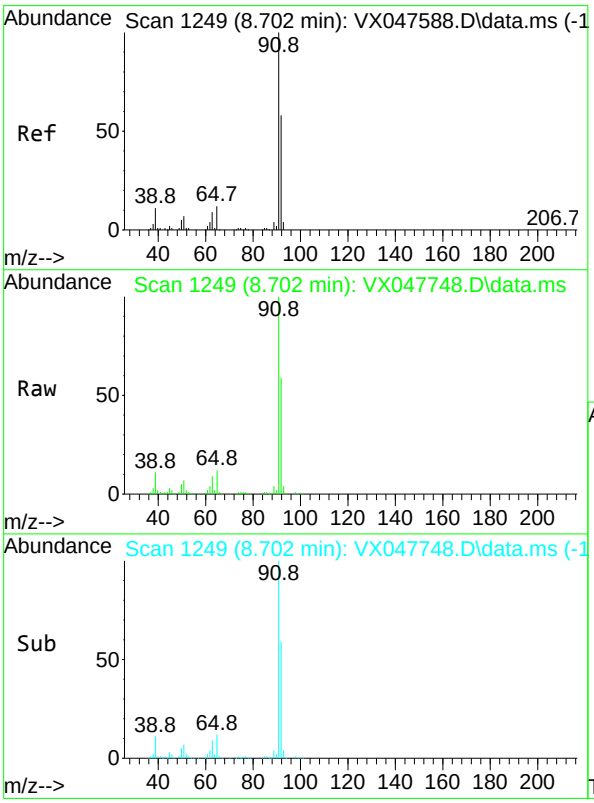
Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

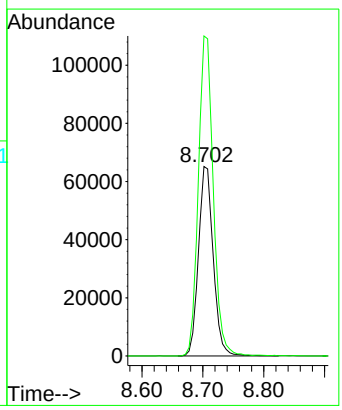
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

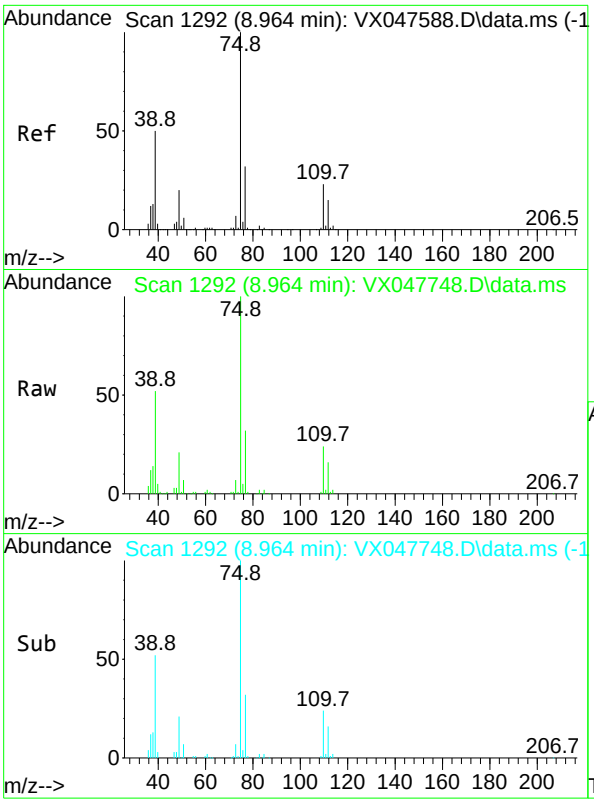


#52
Toluene
Concen: 21.098 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 92 Resp: 109881

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.1	205.7

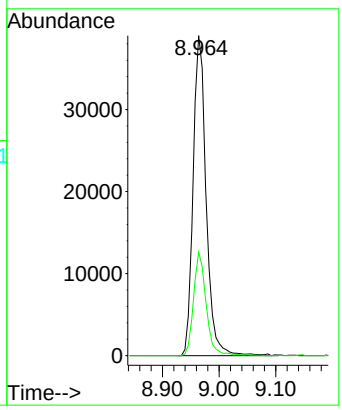




#53
t-1,3-Dichloropropene
Concen: 18.780 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 6226

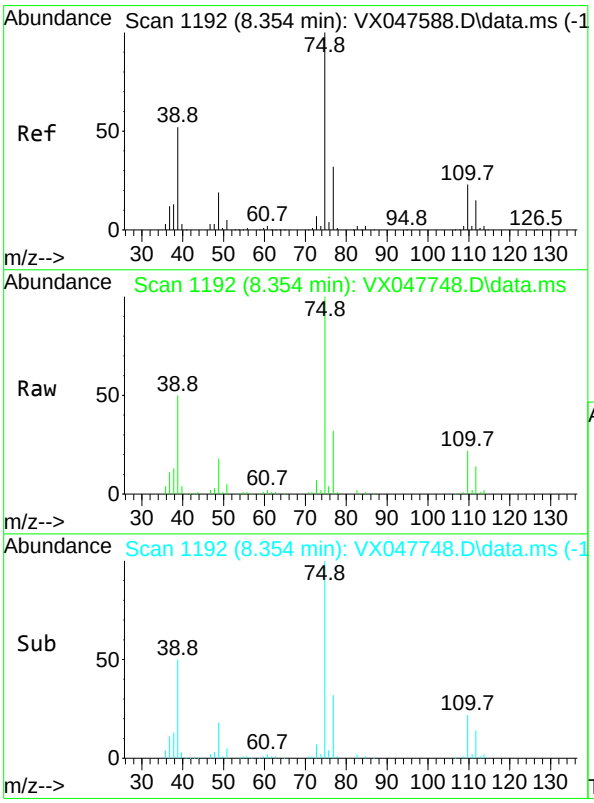
Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

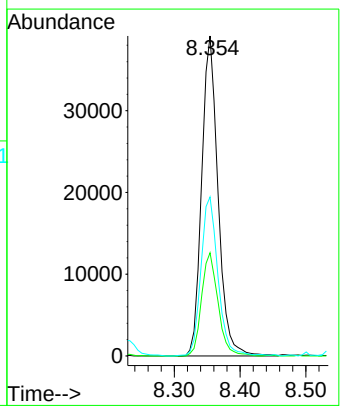
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

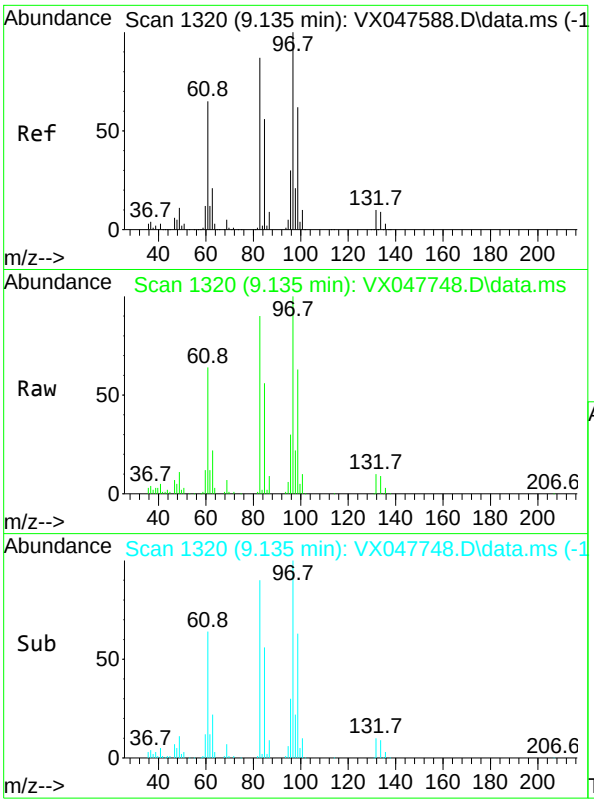


#54
cis-1,3-Dichloropropene
Concen: 19.135 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 67811

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	49.5	41.4	62.2

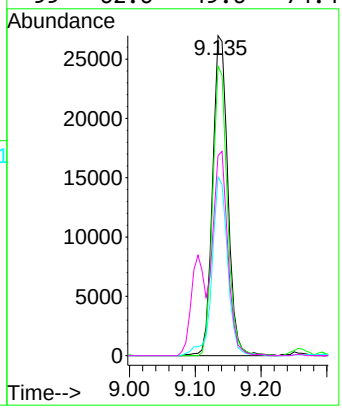




#55
1,1,2-Trichloroethane
Concen: 21.677 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 97 Resp: 4353

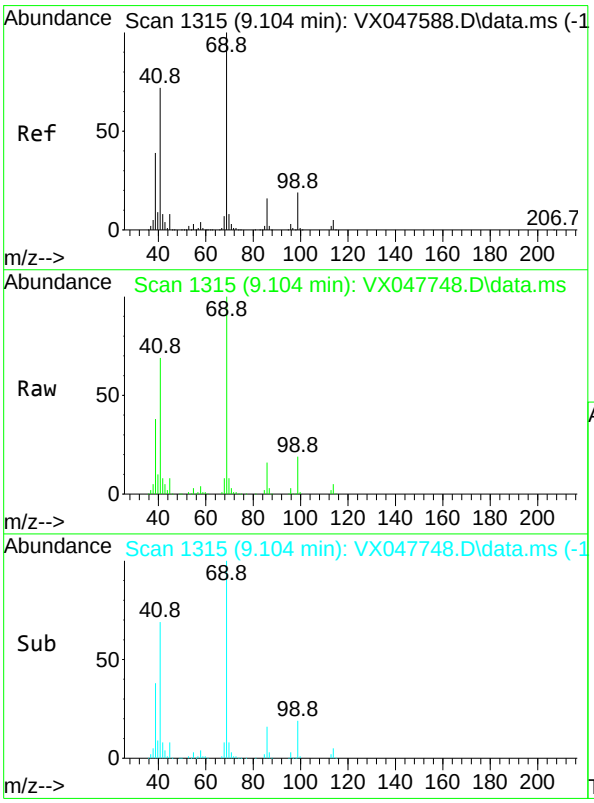
Ion	Ratio	Lower	Upper
97	100		
83	90.4	69.6	104.4
85	55.8	45.0	67.6
99	62.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

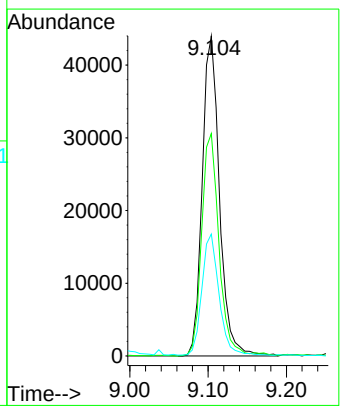
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

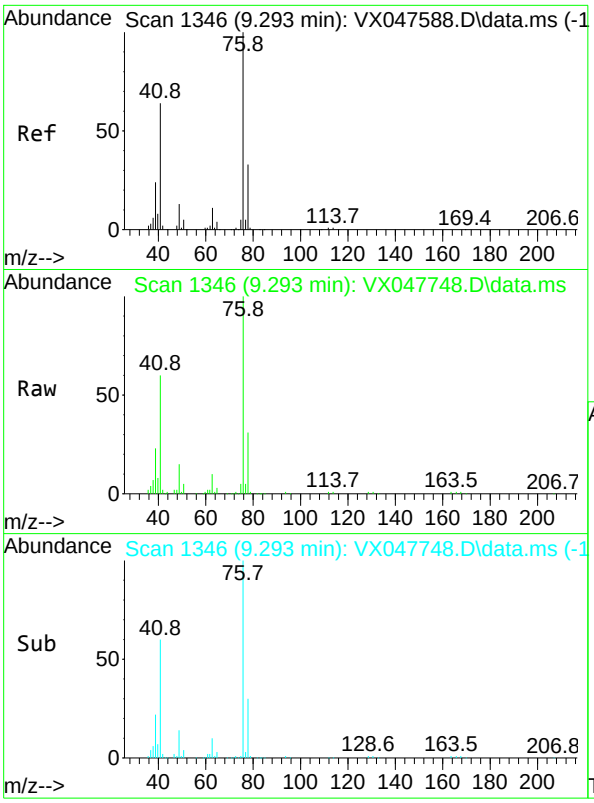


#56
Ethyl methacrylate
Concen: 21.313 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 69 Resp: 67219

Ion	Ratio	Lower	Upper
69	100		
41	69.3	58.6	87.8
39	37.7	31.5	47.3

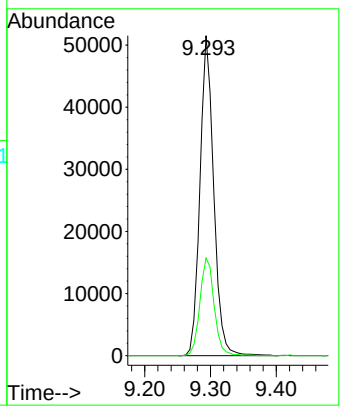




#57
1,3-Dichloropropane
Concen: 21.667 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 76 Resp: 7474

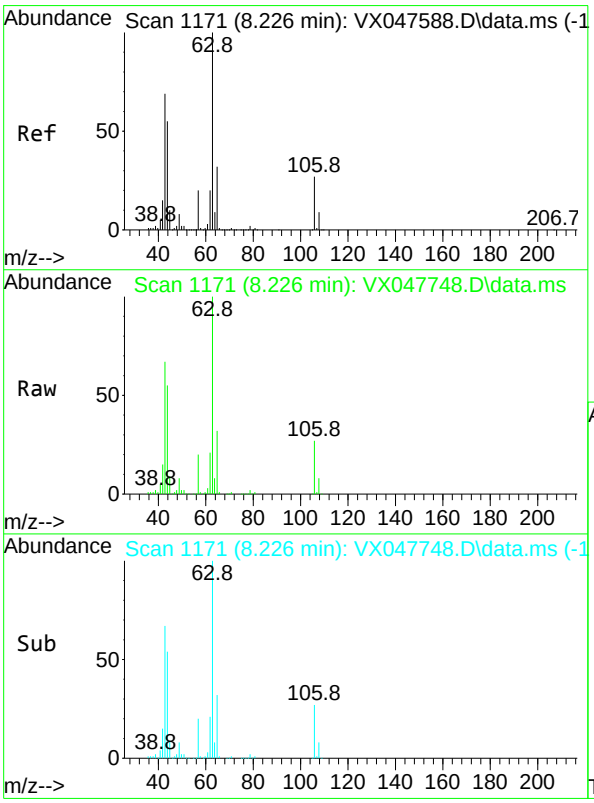
Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

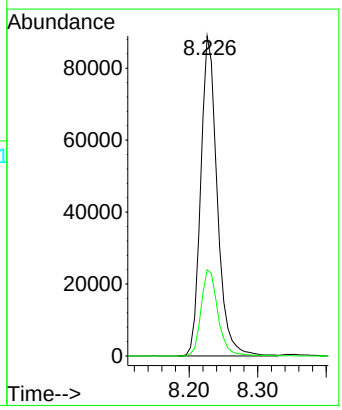
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

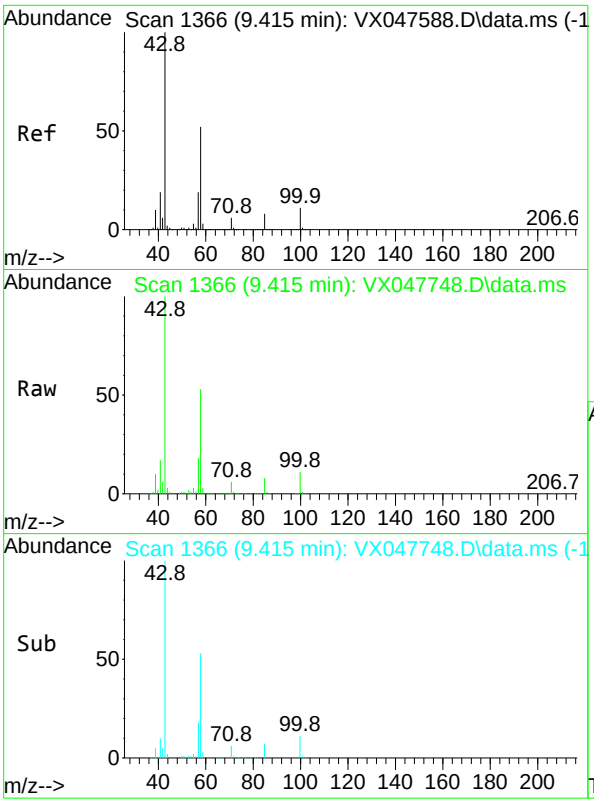


#58
2-Chloroethyl Vinyl ether
Concen: 105.735 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 148860

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

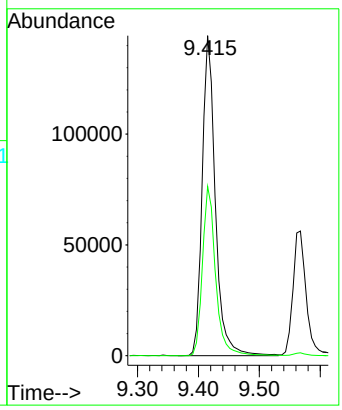




#59
2-Hexanone
Concen: 111.587 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 21717

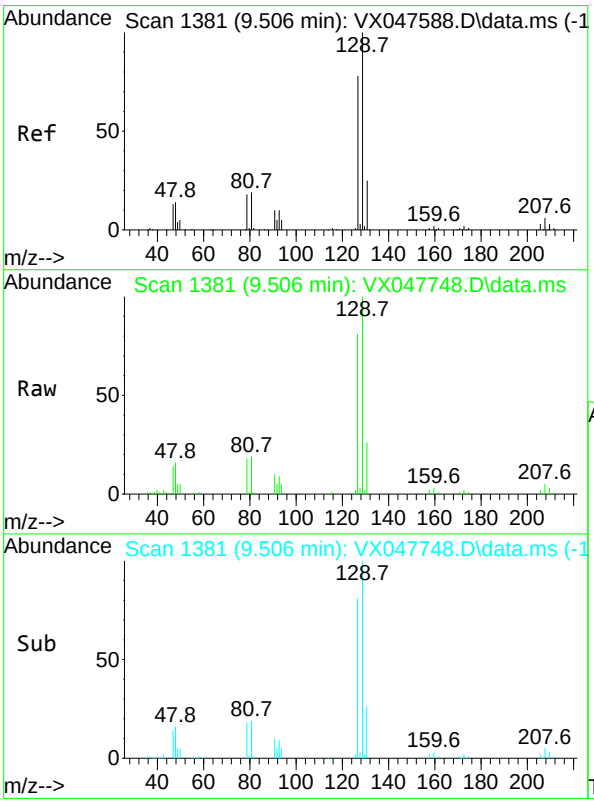
Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

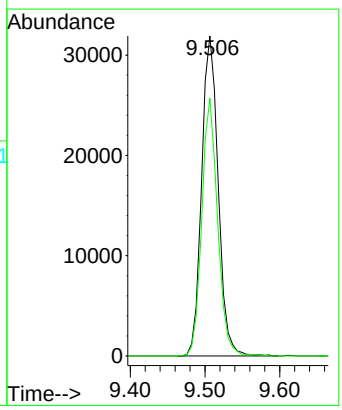
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

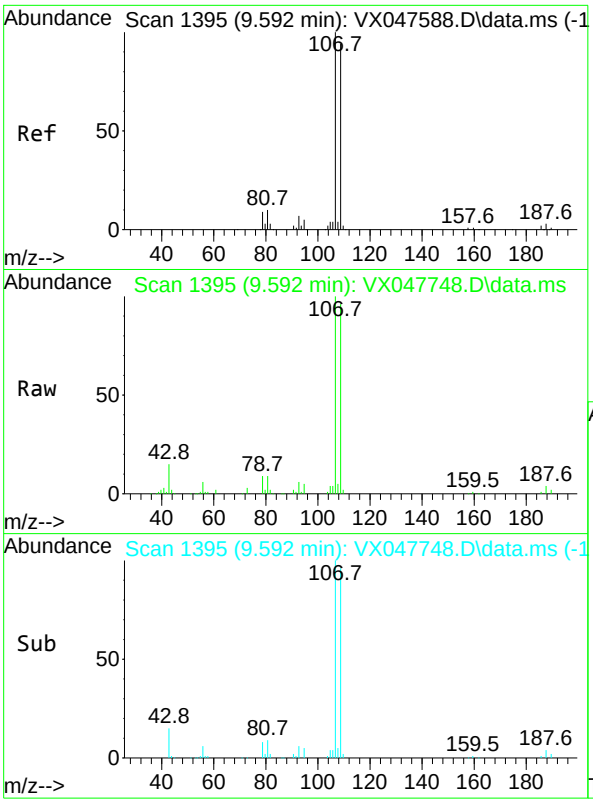


#60
Dibromochloromethane
Concen: 21.170 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:129 Resp: 48986

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.4	115.2

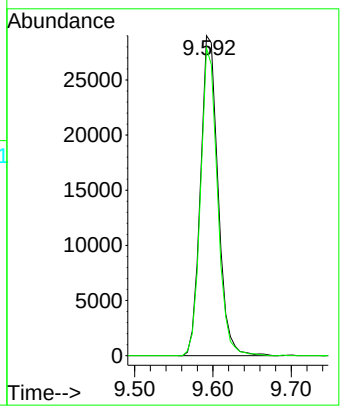




#61
1,2-Dibromoethane
Concen: 22.022 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:107 Resp: 4504

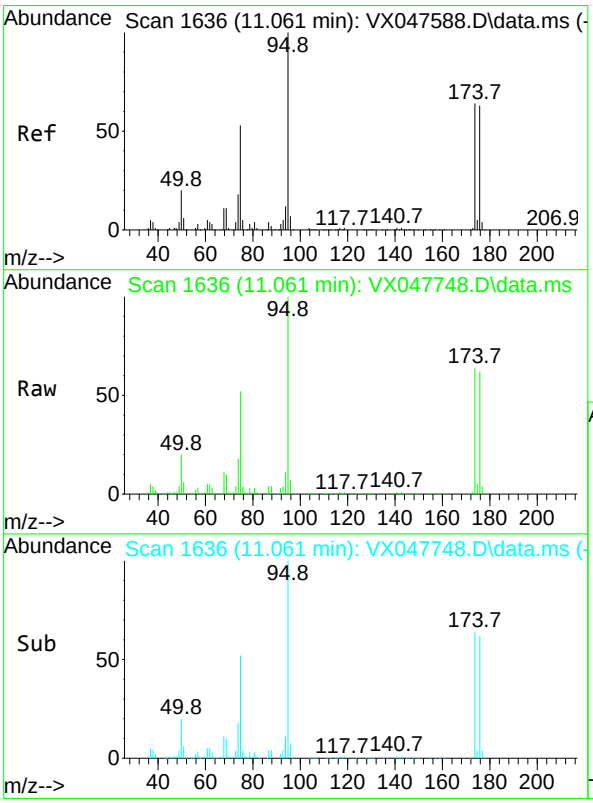
Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

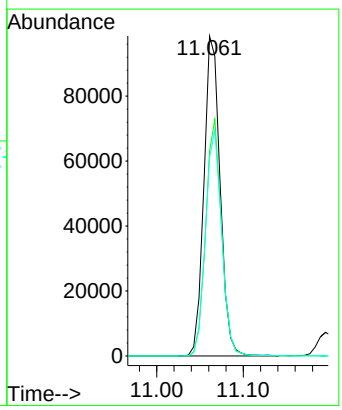
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

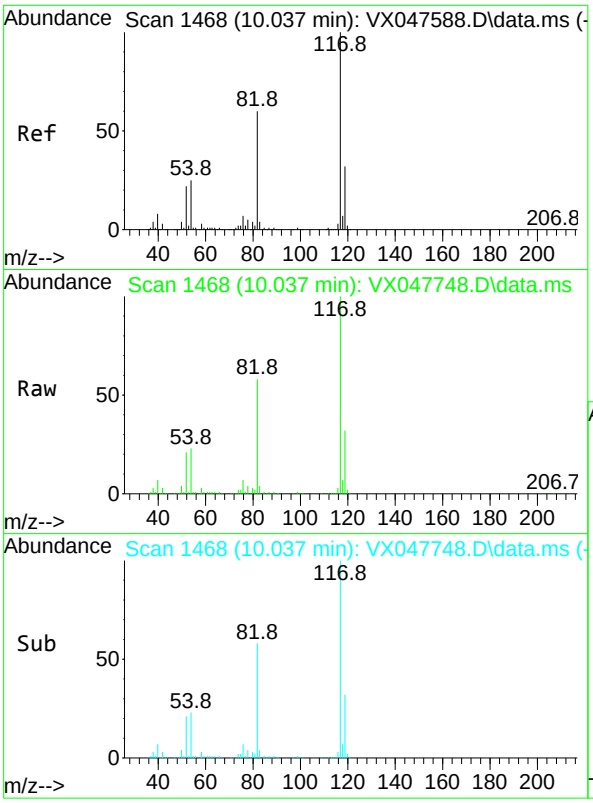


#62
4-Bromofluorobenzene
Concen: 51.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 95 Resp: 127747

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	70.7	0.0	138.4

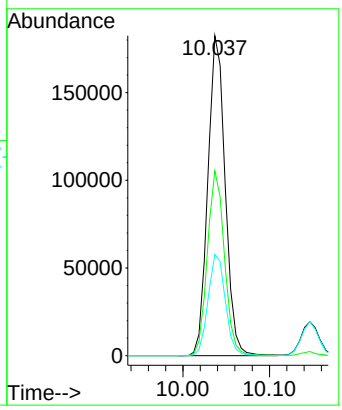




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 25395

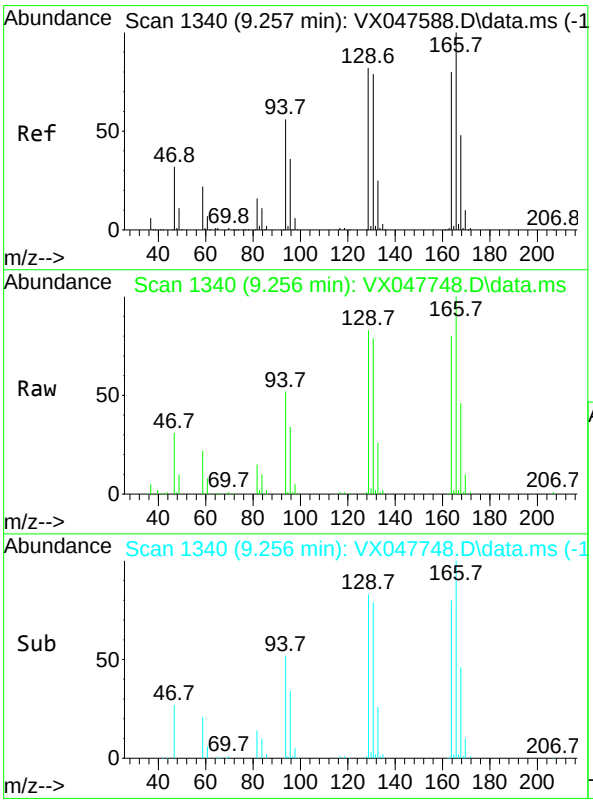
Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.8	71.6
119	31.7	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

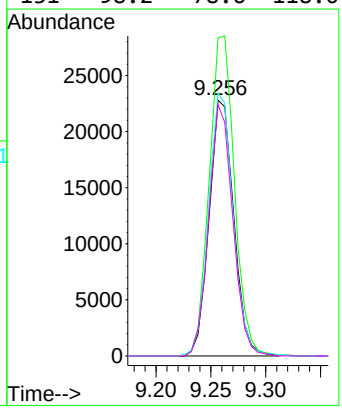
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

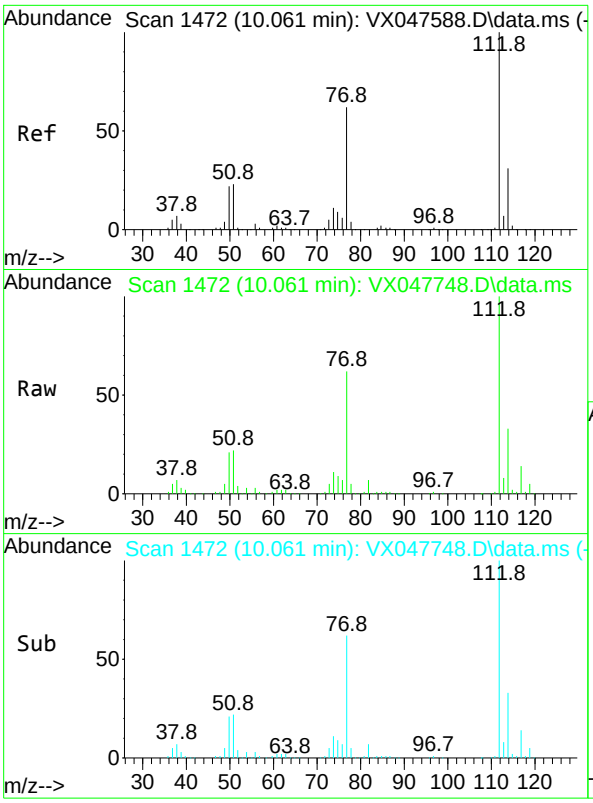


#64
Tetrachloroethene
Concen: 21.442 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:164 Resp: 35498

Ion	Ratio	Lower	Upper
164	100		
166	124.3	100.2	150.2
129	102.7	81.8	122.6
131	98.2	78.6	118.0

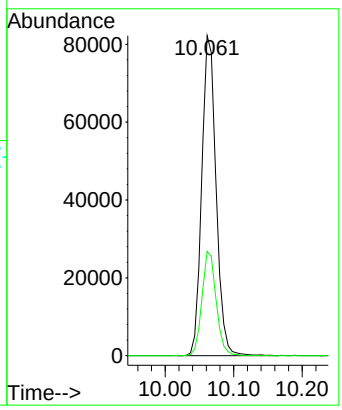




#65
Chlorobenzene
Concen: 20.738 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:112 Resp: 11964

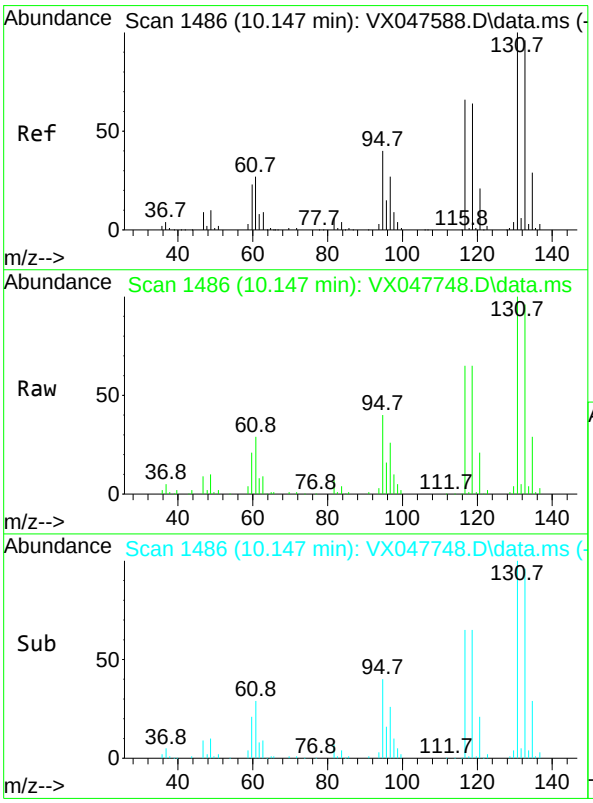
Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

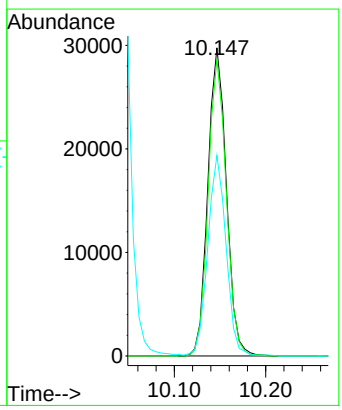
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

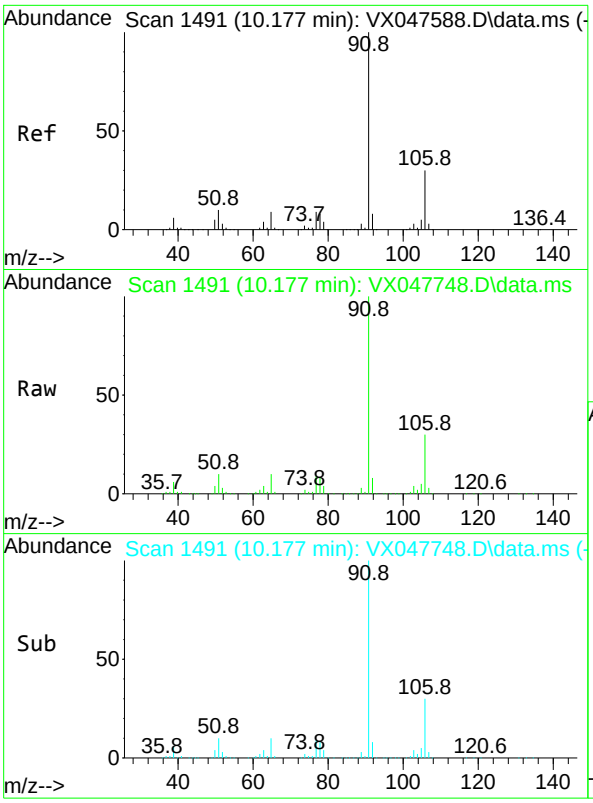


#66
1,1,1,2-Tetrachloroethane
Concen: 21.001 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:131 Resp: 41811

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.3	142.0
119	64.4	32.0	96.0

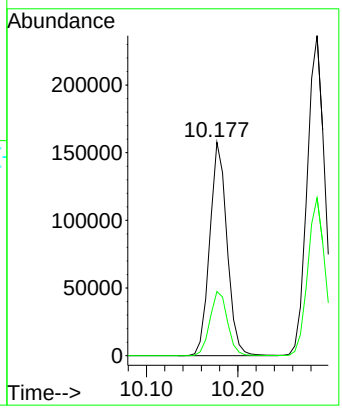




#67
Ethyl Benzene
Concen: 20.757 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 20663

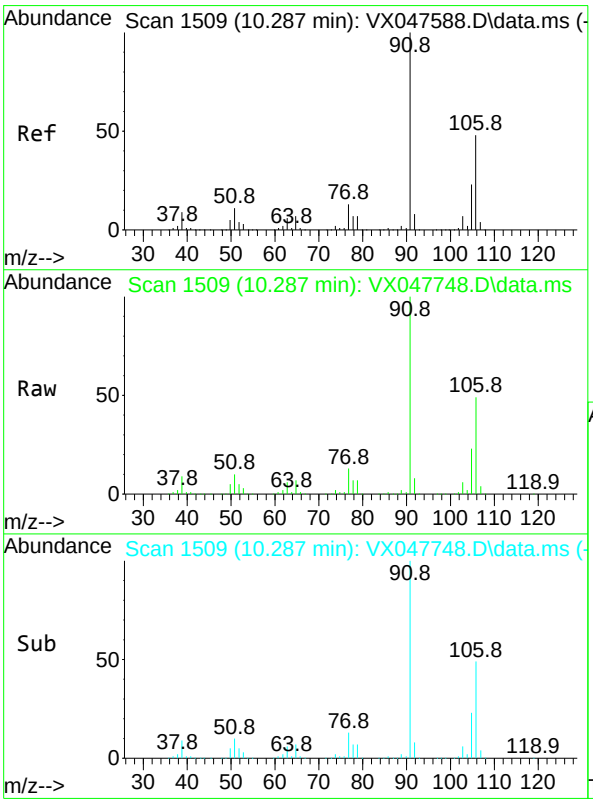
Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

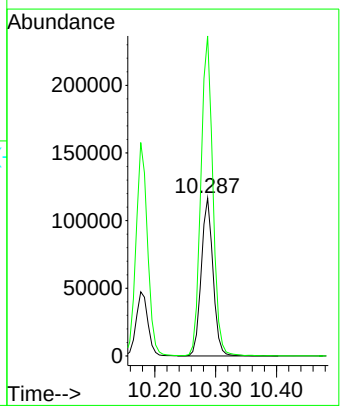
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

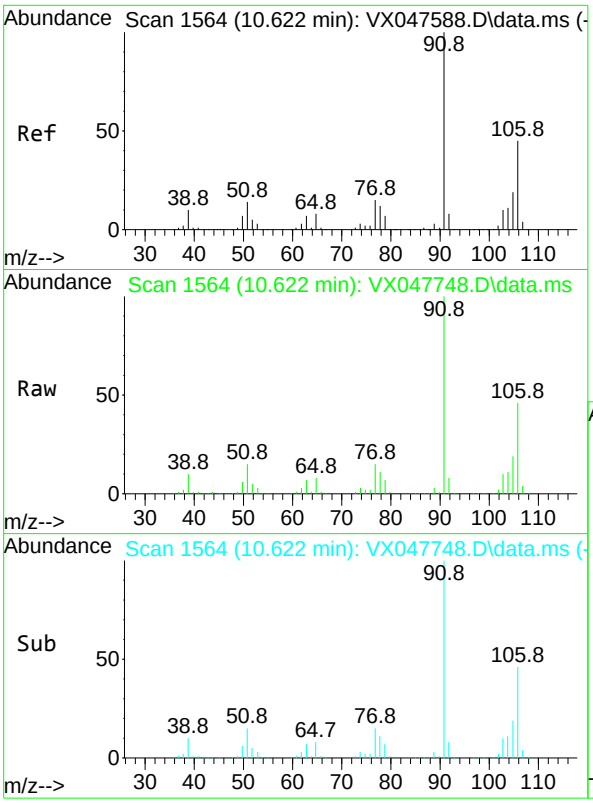


#68
m/p-Xylenes
Concen: 42.264 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:106 Resp: 156597

Ion	Ratio	Lower	Upper
106	100		
91	206.5	167.8	251.8

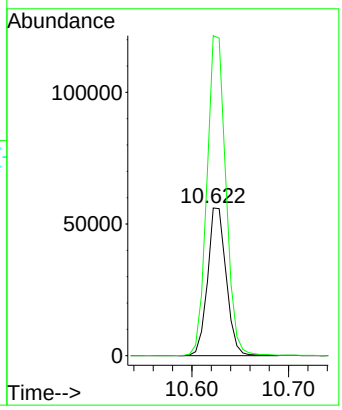




#69
o-Xylene
Concen: 20.945 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:106 Resp: 7506

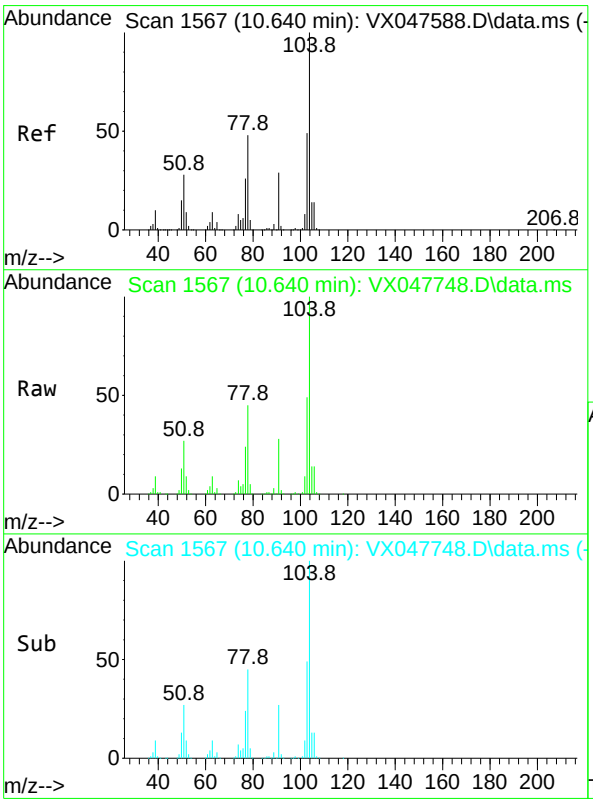
Ion	Ratio	Lower	Upper
106	100		
91	221.1	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

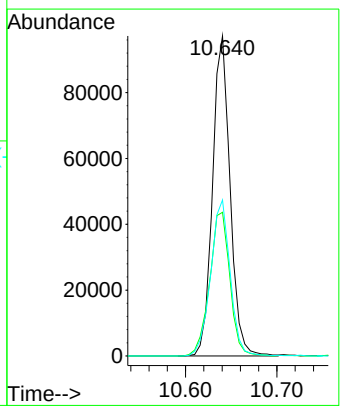
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

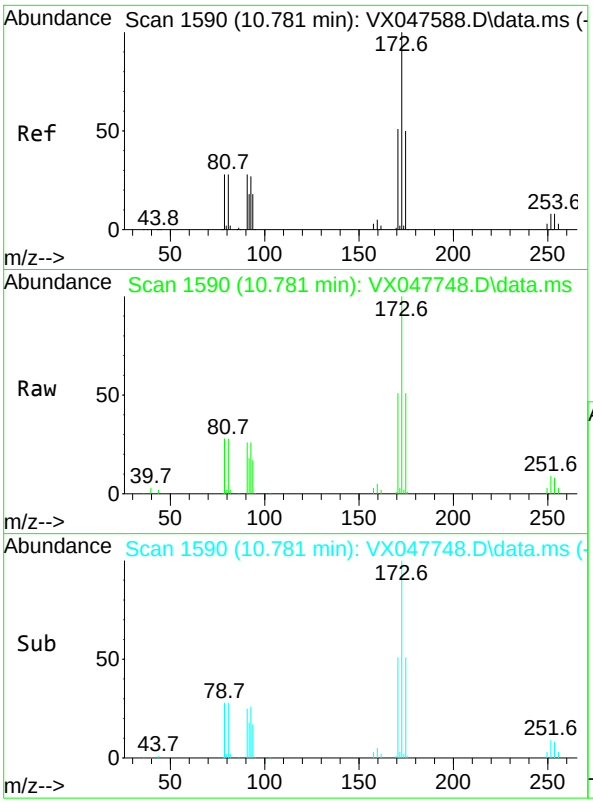


#70
Styrene
Concen: 20.651 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:104 Resp: 129679

Ion	Ratio	Lower	Upper
104	100		
78	51.9	43.1	64.7
103	53.9	43.1	64.7

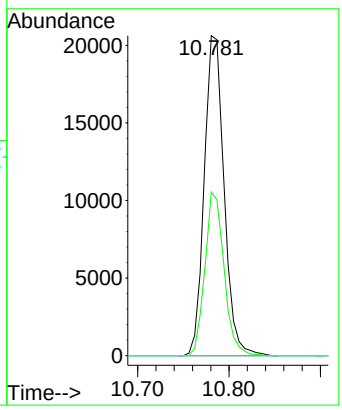




#71
Bromoform
Concen: 20.854 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:173 Resp: 3100

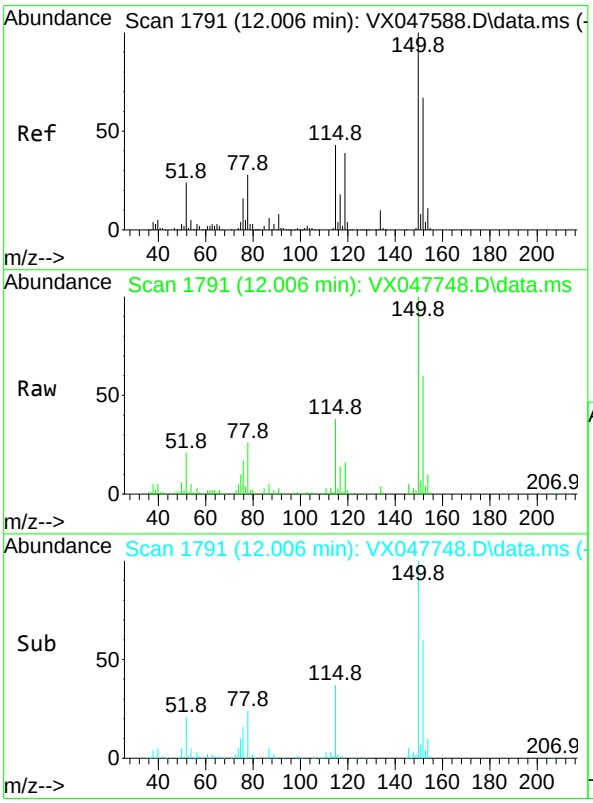
Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

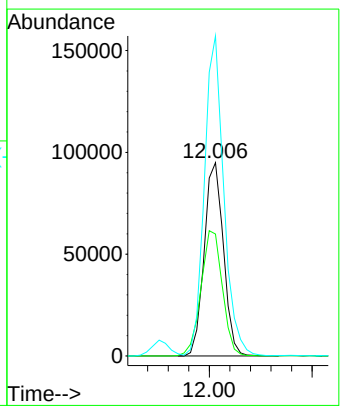
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

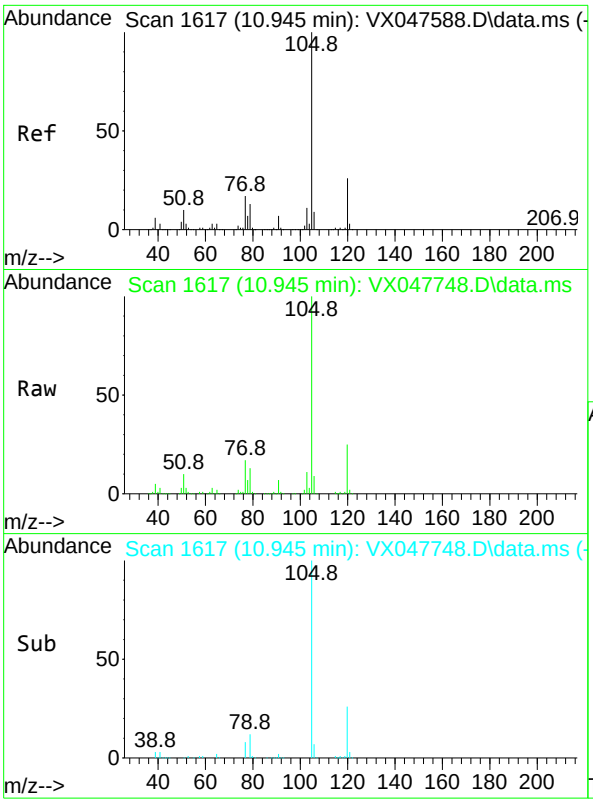


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:152 Resp: 123765

Ion	Ratio	Lower	Upper
152	100		
115	71.9	44.9	134.5
150	166.4	0.0	352.0

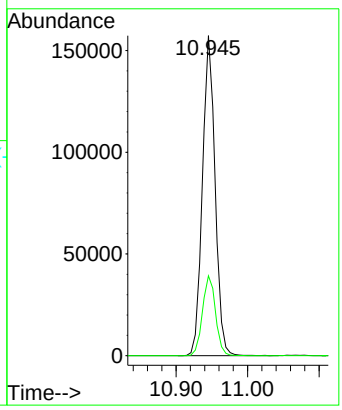




#73
Isopropylbenzene
Concen: 20.548 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 19334

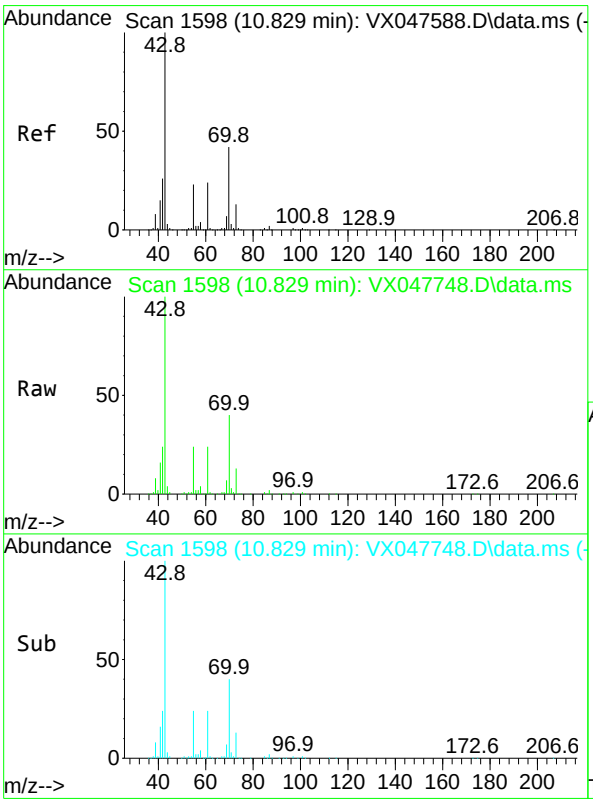
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

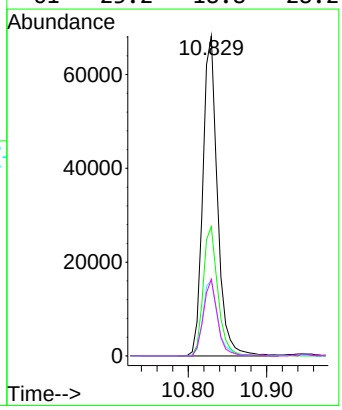
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

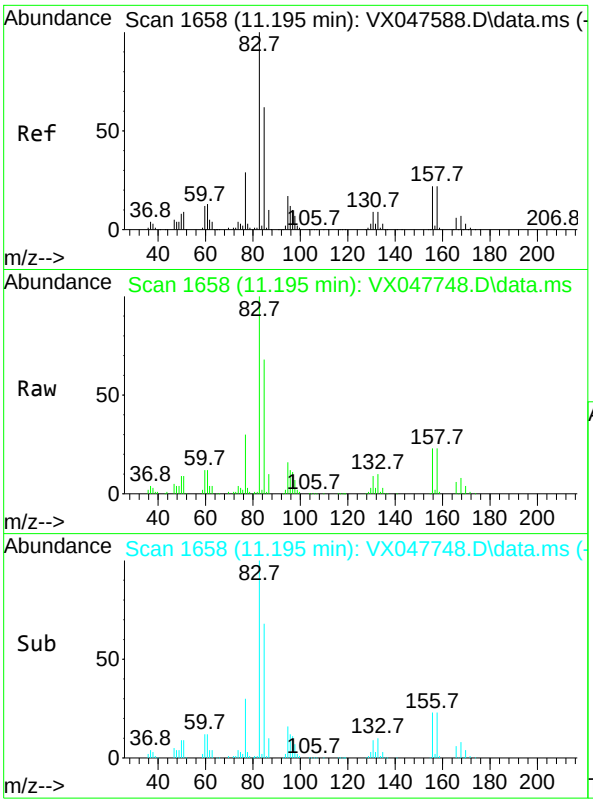


#74
N-amyl acetate
Concen: 20.640 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 88563

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	24.1	18.9	28.3
61	23.2	18.8	28.2

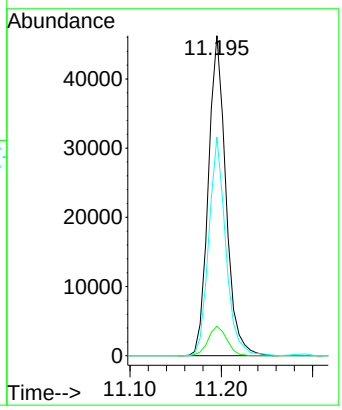




#75
1,1,2,2-Tetrachloroethane
Concen: 21.584 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 6144

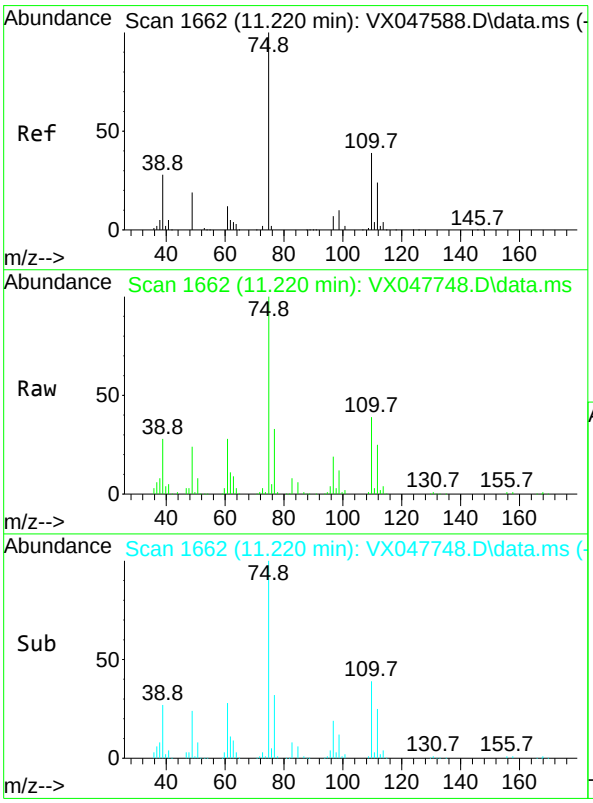
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	66.0	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

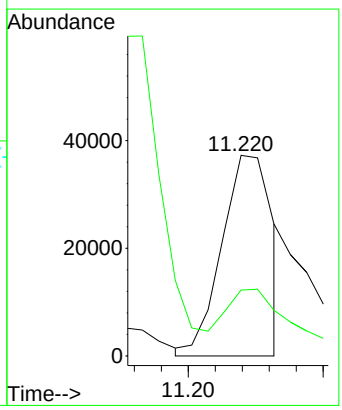
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

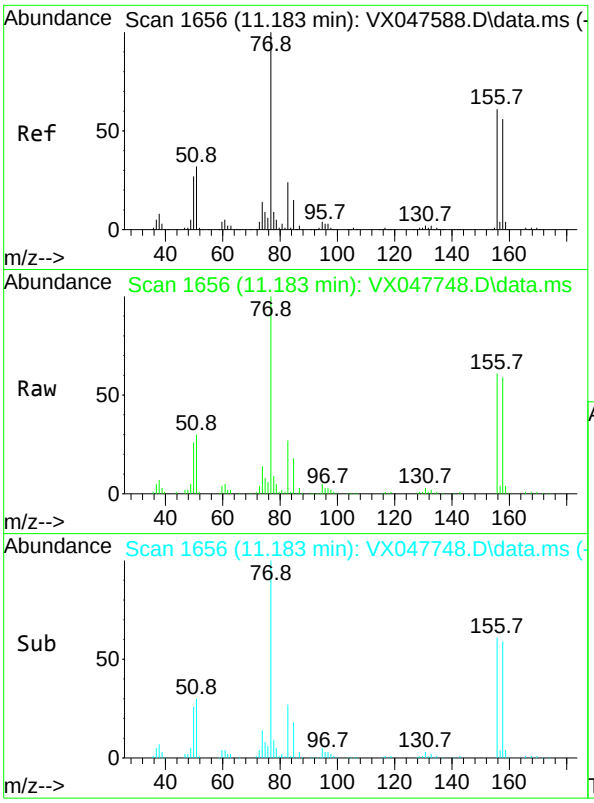


#76
1,2,3-Trichloropropane
Concen: 19.360 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 48514

Ion	Ratio	Lower	Upper
75	100		
77	44.0	18.8	56.4

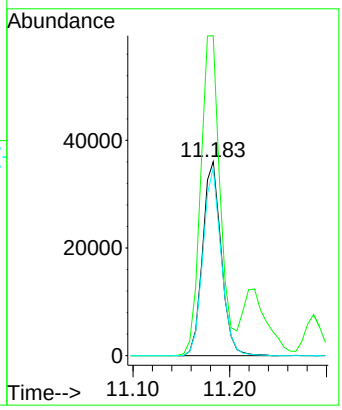




#77
Bromobenzene
Concen: 20.791 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:156 Resp: 4818

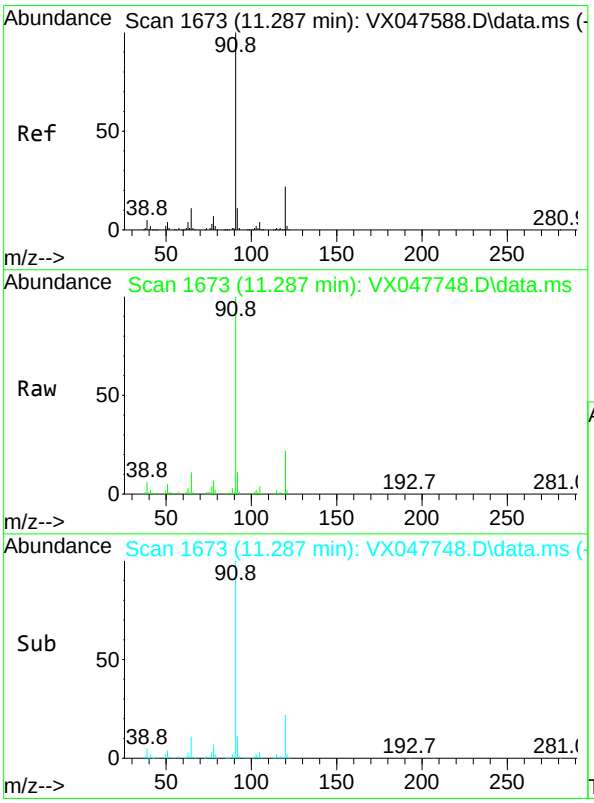
Ion	Ratio	Lower	Upper
156	100		
77	173.7	89.7	269.1
158	95.4	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

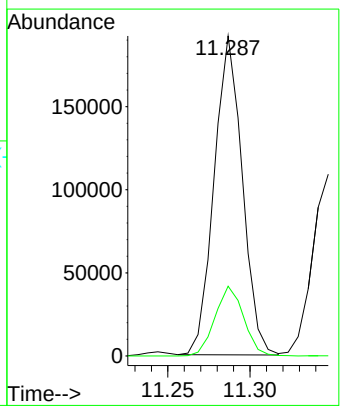
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

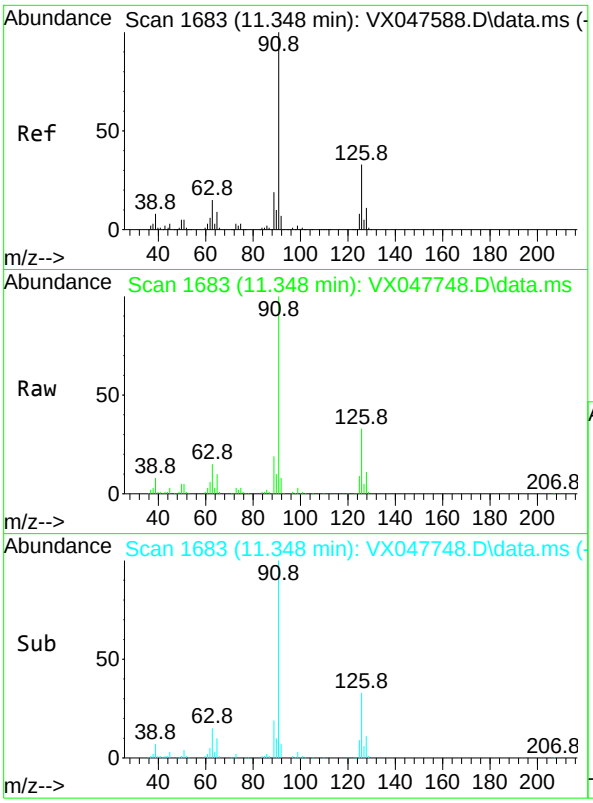


#78
n-propylbenzene
Concen: 20.542 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 228489

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1

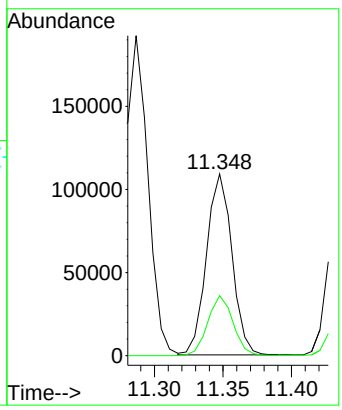




#79
2-Chlorotoluene
Concen: 20.647 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 14066

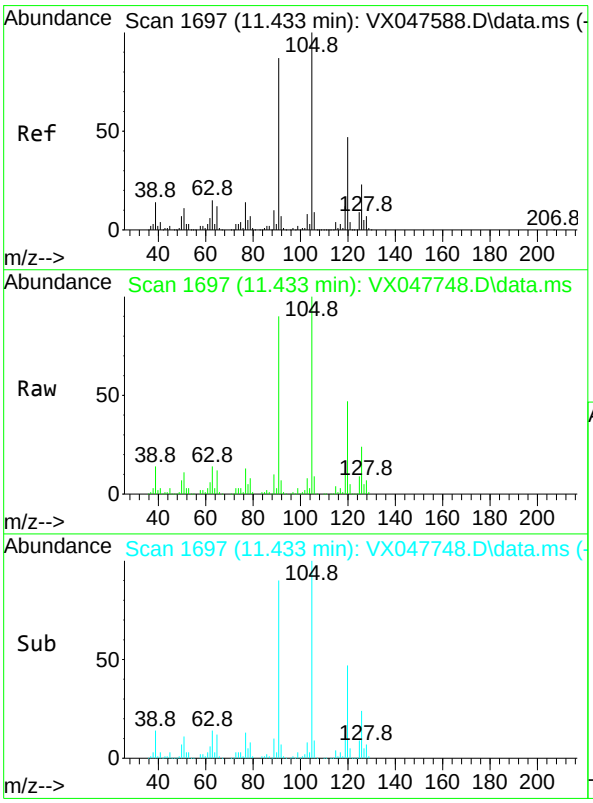
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

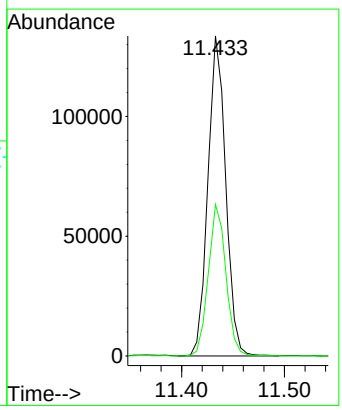
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

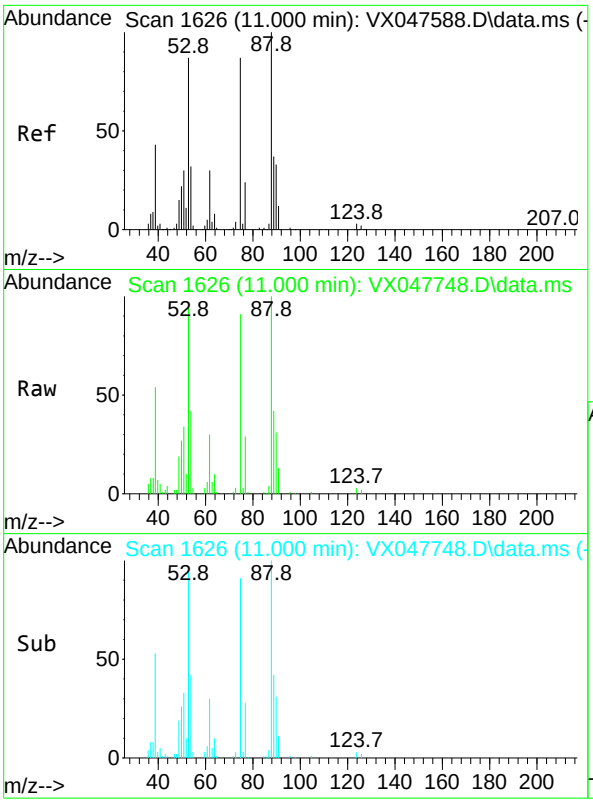


#80
1,3,5-Trimethylbenzene
Concen: 20.764 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 160516

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.6	70.8

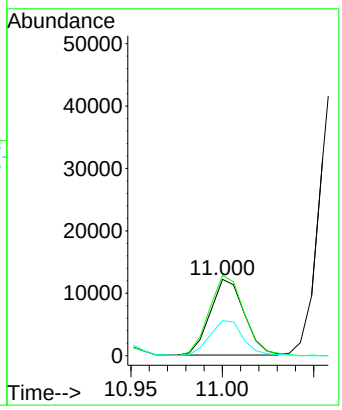




#81
trans-1,4-Dichloro-2-butene
Concen: 16.123 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 1584

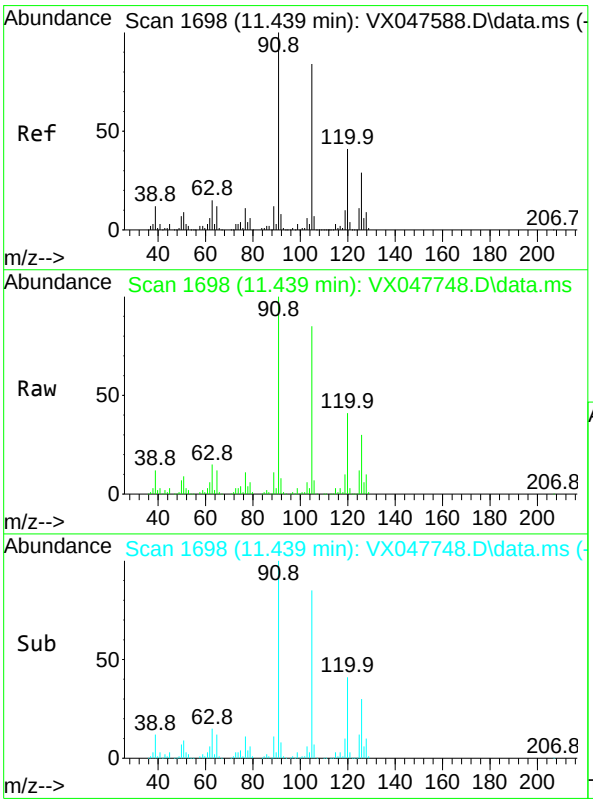
Ion	Ratio	Lower	Upper
75	100		
53	108.2	83.4	125.2
89	45.5	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

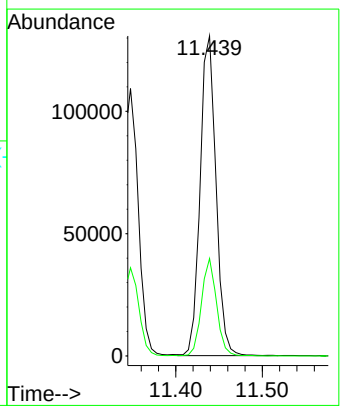
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

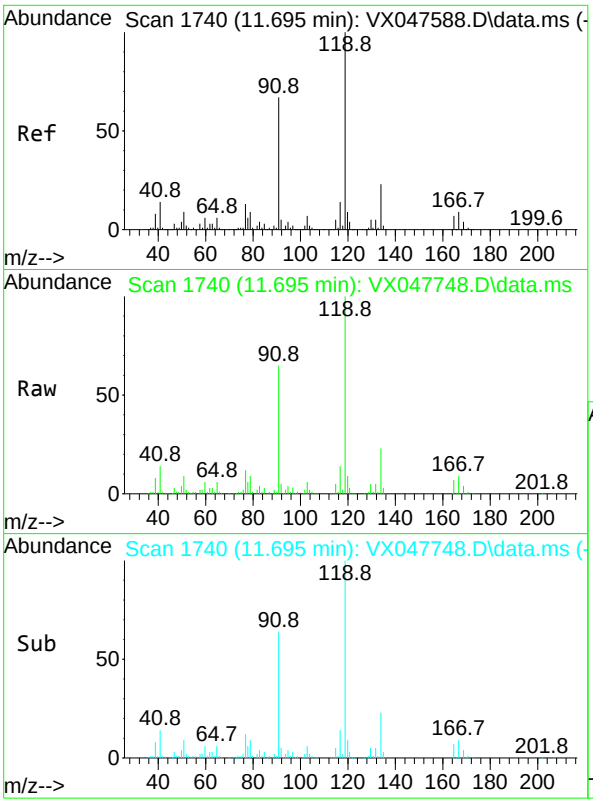


#82
4-Chlorotoluene
Concen: 20.635 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 166032

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.2	42.6

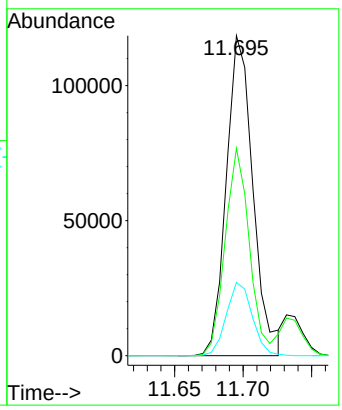




#83
tert-Butylbenzene
Concen: 20.248 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:119 Resp: 16023

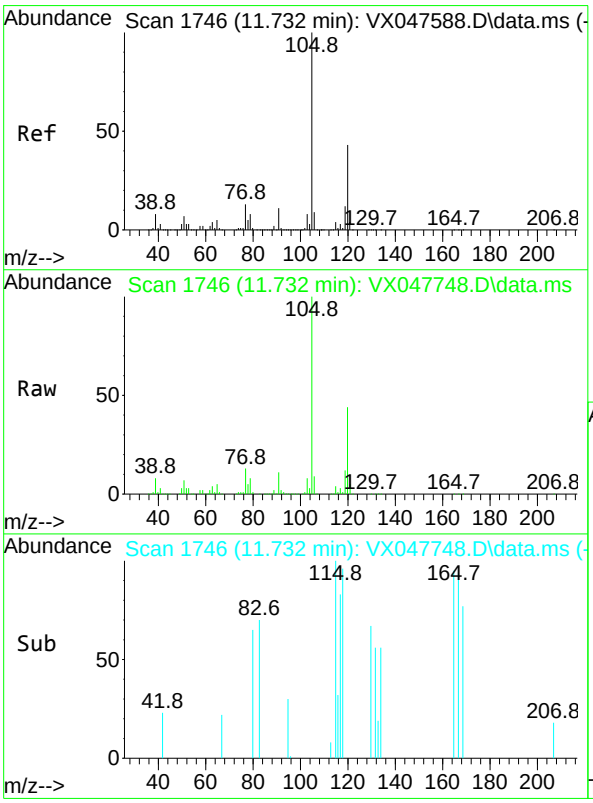
Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.2	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

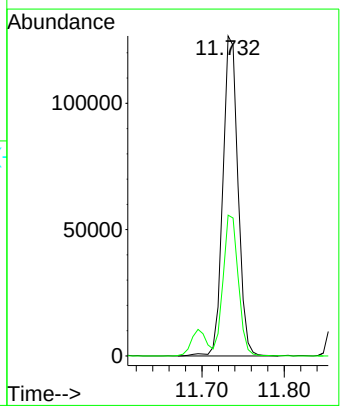
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

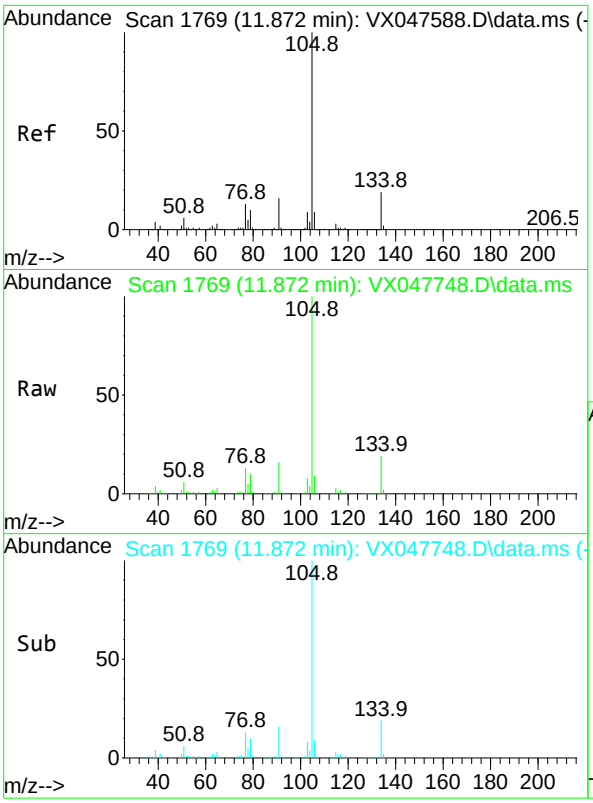


#84
1,2,4-Trimethylbenzene
Concen: 20.665 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 161967

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

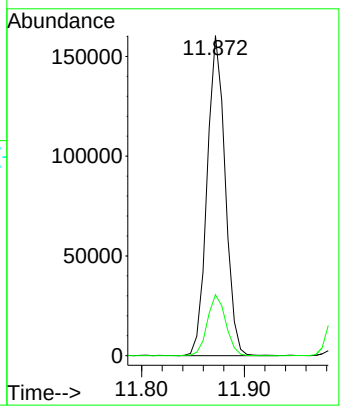




#85
sec-Butylbenzene
Concen: 20.870 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 19617

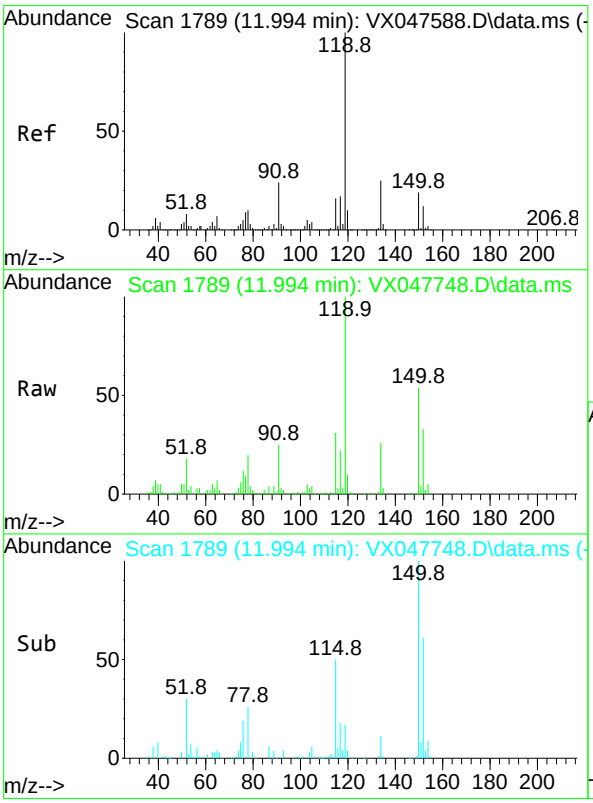
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

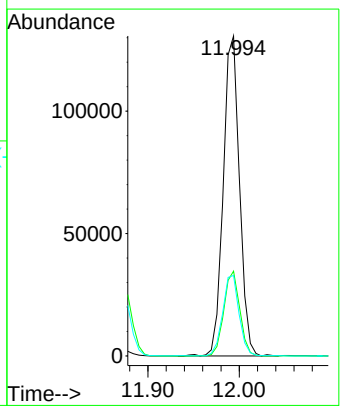
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

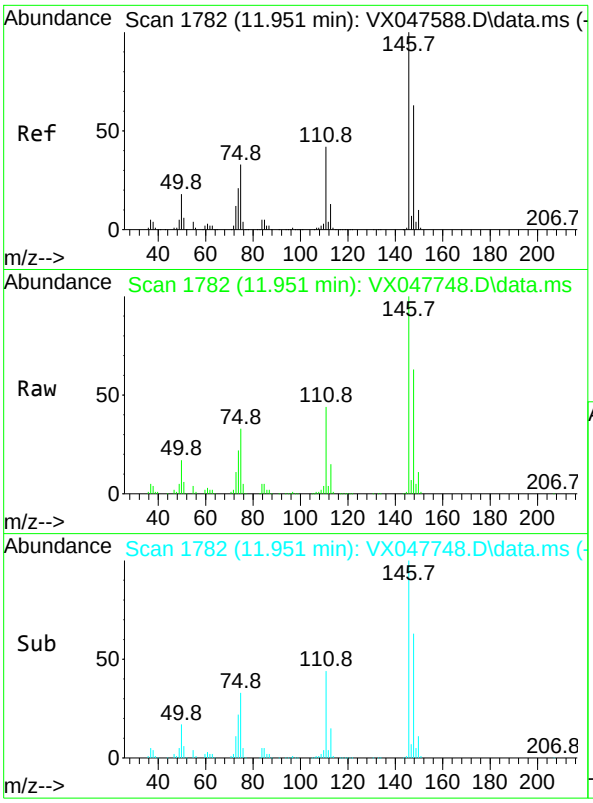


#86
p-Isopropyltoluene
Concen: 20.326 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:119 Resp: 161751

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	25.6	12.6	37.6

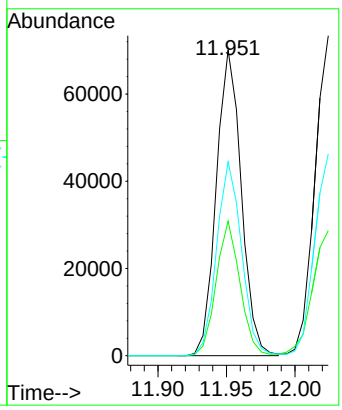




#87
1,3-Dichlorobenzene
Concen: 20.598 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 8866

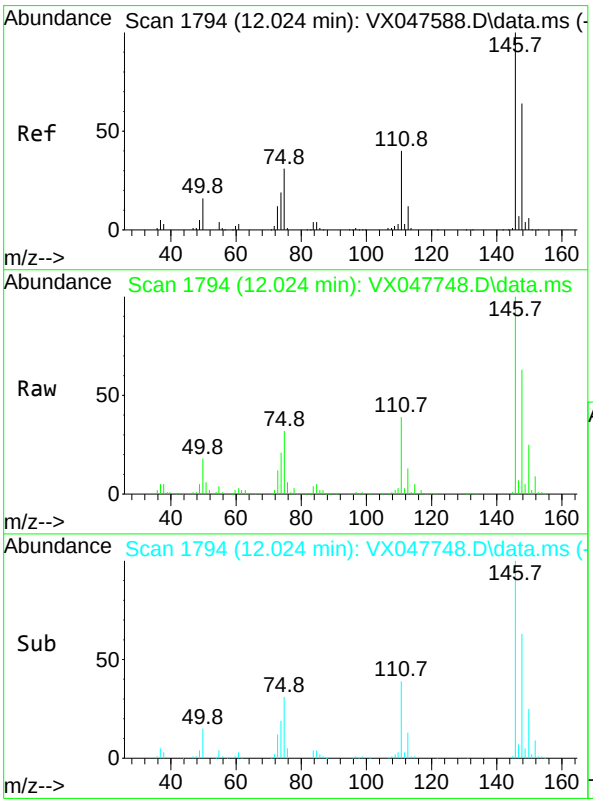
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.3	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

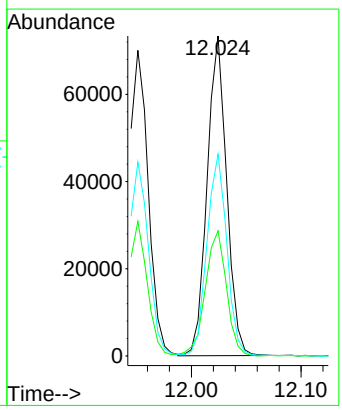
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

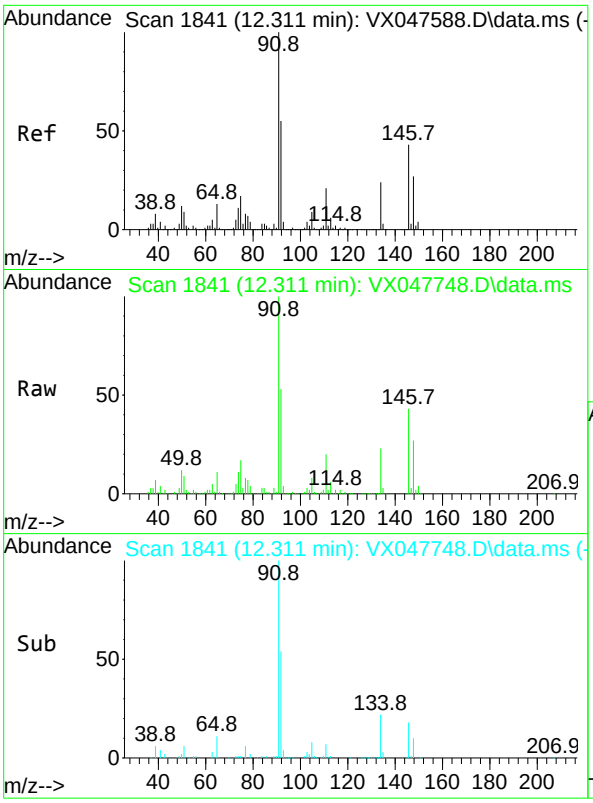


#88
1,4-Dichlorobenzene
Concen: 20.539 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 90738

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.3	31.7	95.1

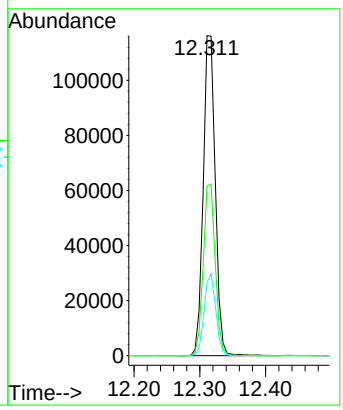




#89
n-Butylbenzene
Concen: 20.116 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 14812

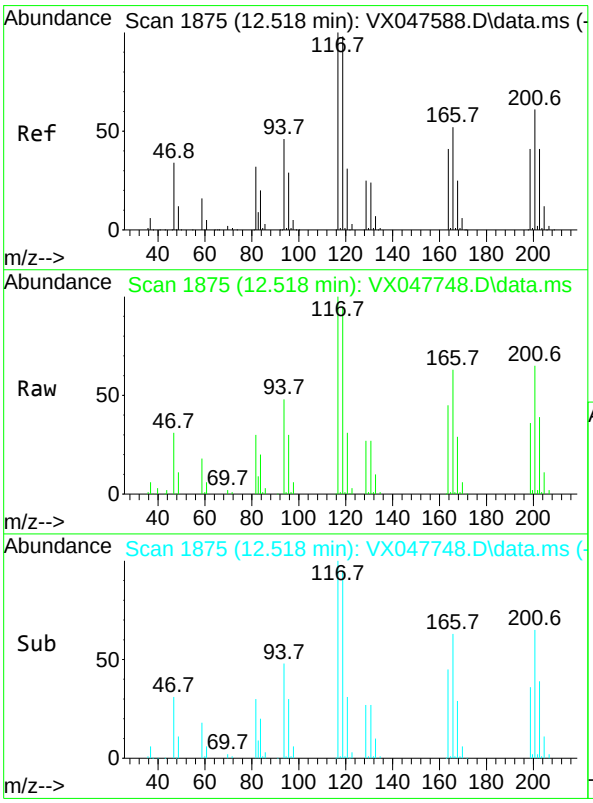
Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

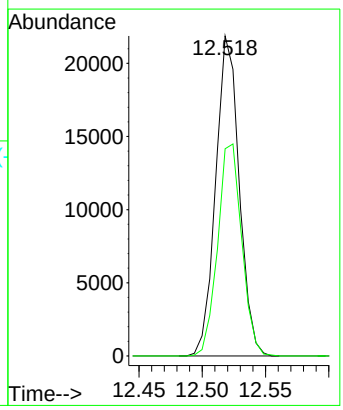
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

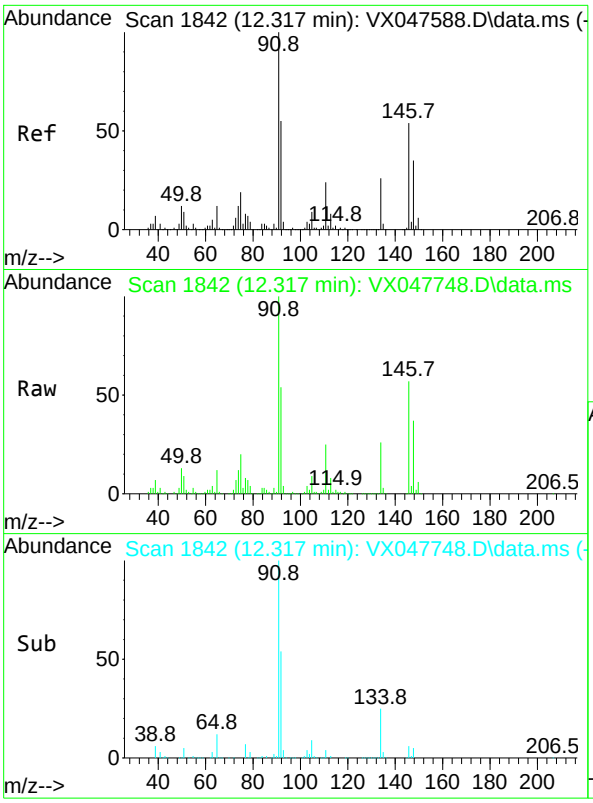


#90
Hexachloroethane
Concen: 20.199 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 28222

Ion	Ratio	Lower	Upper
117	100		
201	68.0	34.2	102.5

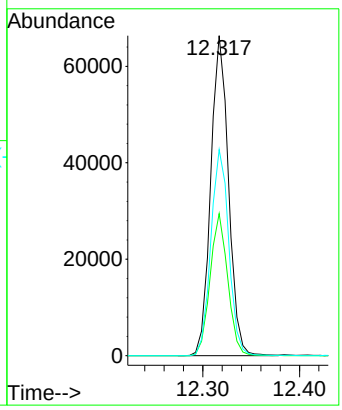




#91
1,2-Dichlorobenzene
Concen: 20.655 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 8470

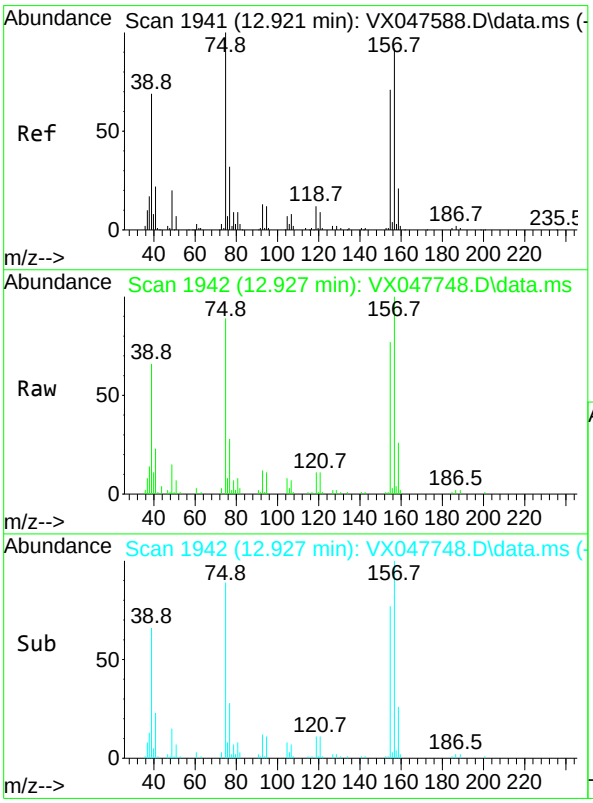
Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.2	66.6
148	65.0	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

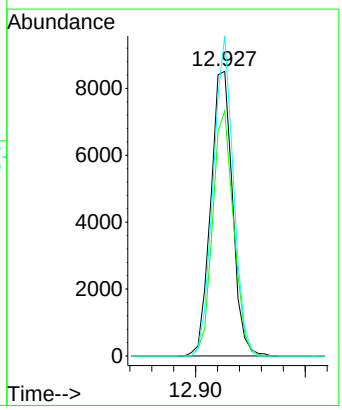
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

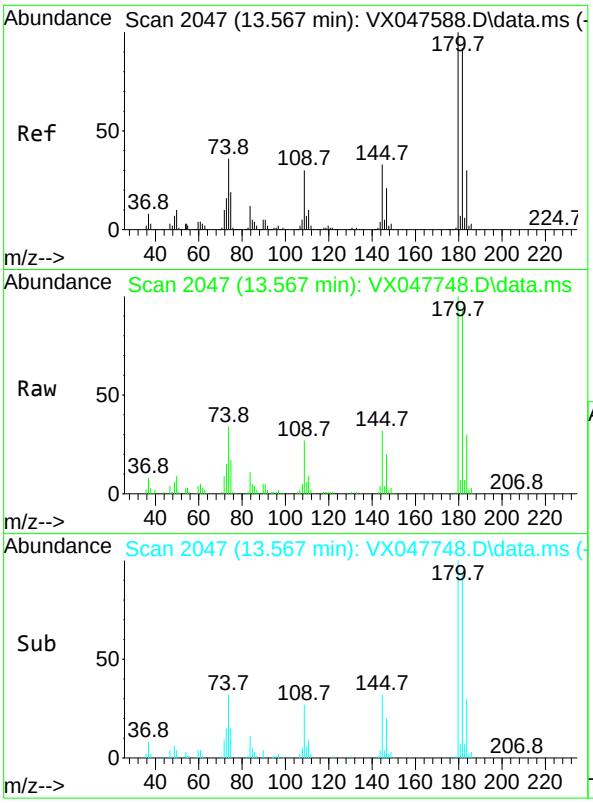


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.397 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 11756

Ion	Ratio	Lower	Upper
75	100		
155	82.8	37.7	113.1
157	104.0	49.8	149.4

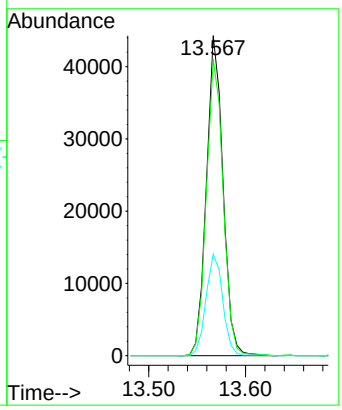




#93
1,2,4-Trichlorobenzene
Concen: 19.802 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:180 Resp: 5277

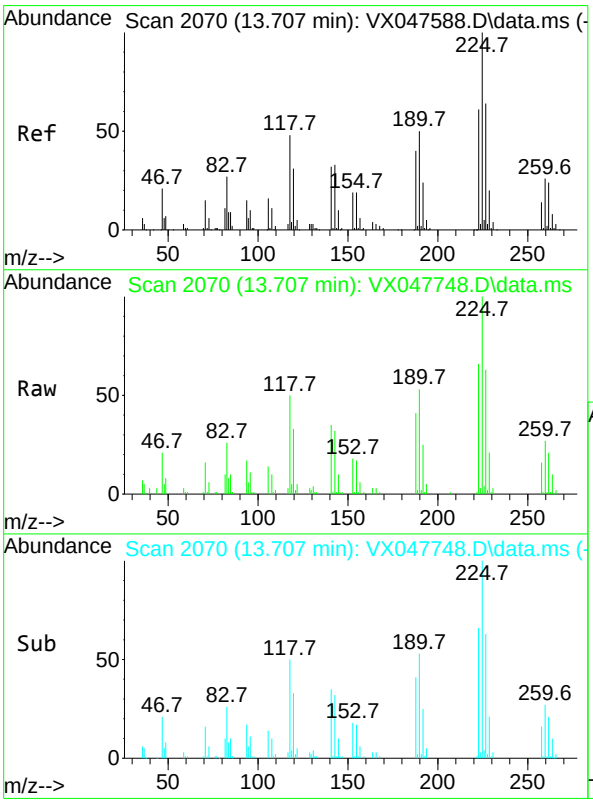
Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.6	139.8
145	32.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

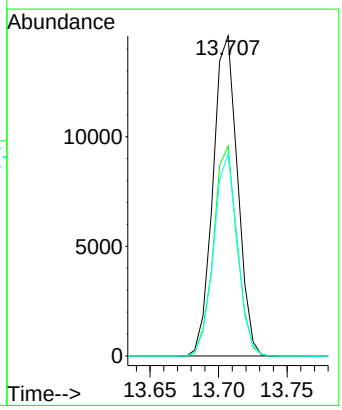
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

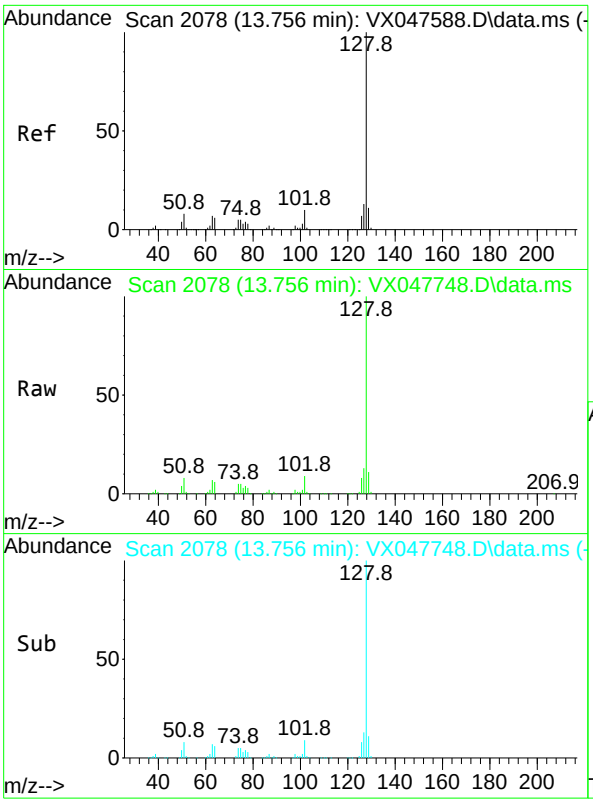


#94
Hexachlorobutadiene
Concen: 20.094 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:225 Resp: 18191

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.7	95.1
227	61.1	32.0	96.0

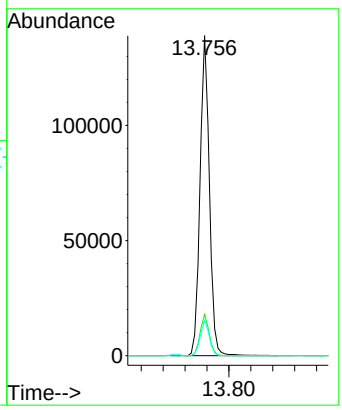




#95
Naphthalene
Concen: 20.298 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:128 Resp: 16473

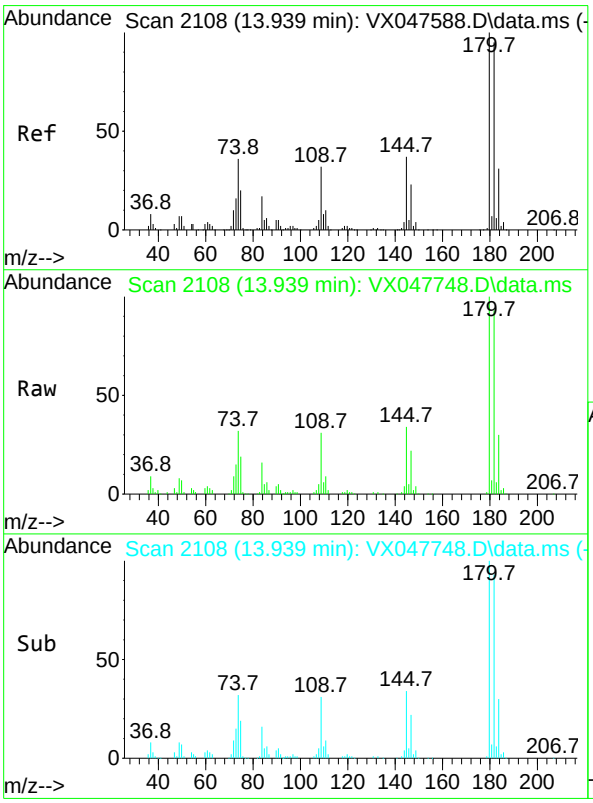
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

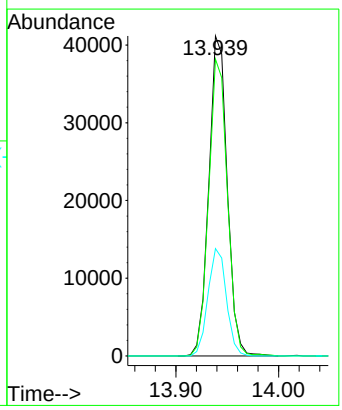
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.708 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:180 Resp: 51341

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.6	142.8
145	33.5	17.9	53.7



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBSD03	SDG No.:	Q3141
Lab Sample ID:	VX0923WBSD03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047749.D	1	09/24/25 04:14	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.6		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	18.5		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	19.7		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.6		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.6		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.0		0.23	0.75	1.00	ug/L
67-64-1	Acetone	75.9		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.0		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.5		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	19.8		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	17.7		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.6		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.4		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	90.8		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	16.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.9		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	21.7		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	17.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	16.6		0.16	0.50	1.00	ug/L
71-43-2	Benzene	17.7		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	16.8		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.9		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	17.5		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.4		0.68	2.50	5.00	ug/L
108-88-3	Toluene	17.7		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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBSD03	SDG No.:	Q3141
Lab Sample ID:	VX0923WBSD03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047749.D	1	09/24/25 04:14	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.0		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	16.0		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	94.0		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.1		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.1		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	17.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	17.2		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	35.3		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	17.5		0.12	0.50	1.00	ug/L
100-42-5	Styrene	17.5		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	17.5		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	16.9		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.4		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.1		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.5		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.4		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.1		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.4		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	52.2		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	5.537				
540-36-3	1,4-Difluorobenzene	282000	6.751				
3114-55-4	Chlorobenzene-d5	254000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	125000	12.006				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0923WBSD03	SDG No.:	Q3141
Lab Sample ID:	VX0923WBSD03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047749.D	1	09/24/25 04:14	VX092325

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\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	154222	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	281988	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	254297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	124629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	123608	50.353	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.700%			
35) Dibromofluoromethane	5.373	113	97017	51.300	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.600%			
50) Toluene-d8	8.634	98	341263	52.151	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 104.300%			
62) 4-Bromofluorobenzene	11.061	95	129425	52.114	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.220%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	31354	19.633	ug/l	97
3) Chloromethane	1.300	50	38808	18.490	ug/l	99
4) Vinyl Chloride	1.380	62	37889	18.441	ug/l	98
5) Bromomethane	1.617	94	25717	19.739	ug/l	95
6) Chloroethane	1.697	64	24132	17.573	ug/l	98
7) Trichlorofluoromethane	1.898	101	53751	17.620	ug/l	92
8) Diethyl Ether	2.136	74	20543	16.462	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.337	101	30800	17.267	ug/l	98
10) Methyl Iodide	2.459	142	46724	16.795	ug/l	100
11) Tert butyl alcohol	2.940	59	25276	92.450	ug/l	99
12) 1,1-Dichloroethene	2.325	96	32967	17.992	ug/l	96
13) Acrolein	2.239	56	22043	87.491	ug/l	98
14) Allyl chloride	2.666	41	61383	16.234	ug/l	97
15) Acrylonitrile	3.062	53	99171	97.927	ug/l	98
16) Acetone	2.380	43	80974	75.863	ug/l	99
17) Carbon Disulfide	2.520	76	90054	17.953	ug/l	99
18) Methyl Acetate	2.703	43	47143	19.846	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	116727	17.451	ug/l	99
20) Methylene Chloride	2.788	84	39914	17.666	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	35110	17.798	ug/l	98
22) Diisopropyl ether	3.757	45	128843	17.583	ug/l	99
23) Vinyl Acetate	3.715	43	514138	87.666	ug/l	99
24) 1,1-Dichloroethane	3.611	63	68705	17.640	ug/l	99
25) 2-Butanone	4.544	43	120923	90.824	ug/l	95
26) 2,2-Dichloropropane	4.471	77	34586	10.683	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	43152	17.862	ug/l	94
28) Bromochloromethane	4.891	49	36933	21.721	ug/l	97
29) Tetrahydrofuran	4.995	42	77415	96.655	ug/l	99
30) Chloroform	5.086	83	70538	17.922	ug/l	95
31) Cyclohexane	5.464	56	56532	17.427	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	59999	17.972	ug/l	99
36) 1,1-Dichloropropene	5.684	75	45756	16.558	ug/l	98
37) Ethyl Acetate	4.708	43	53875	18.208	ug/l	99
38) Carbon Tetrachloride	5.666	117	49639	16.532	ug/l	94
39) Methylcyclohexane	7.366	83	52216	16.646	ug/l	97
40) Benzene	6.025	78	148339	17.674	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	28598	18.722	ug/l		96
42) 1,2-Dichloroethane	6.074	62	53538	16.765	ug/l		98
43) Isopropyl Acetate	6.324	43	88000	18.134	ug/l		100
44) Trichloroethene	7.110	130	36283	17.881	ug/l		92
45) 1,2-Dichloropropane	7.415	63	38455	17.893	ug/l		94
46) Dibromomethane	7.568	93	28033	17.924	ug/l		99
47) Bromodichloromethane	7.811	83	56375	17.468	ug/l		94
48) Methyl methacrylate	7.683	41	41895	17.332	ug/l		97
49) 1,4-Dioxane	7.647	88	10914	446.778	ug/l		96
51) 4-Methyl-2-Pentanone	8.561	43	259334	96.387	ug/l		100
52) Toluene	8.708	92	91422	17.679	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	52789	16.036	ug/l		95
54) cis-1,3-Dichloropropene	8.354	75	56367	16.020	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	36370	18.240	ug/l		97
56) Ethyl methacrylate	9.104	69	56127	17.924	ug/l		97
57) 1,3-Dichloropropane	9.293	76	63358	18.497	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	150794	107.686	ug/l		100
59) 2-Hexanone	9.415	43	181591	93.973	ug/l		98
60) Dibromochloromethane	9.506	129	41641	18.125	ug/l		99
61) 1,2-Dibromoethane	9.598	107	38724	19.067	ug/l		100
64) Tetrachloroethene	9.262	164	30658	18.494	ug/l		93
65) Chlorobenzene	10.061	112	102193	17.689	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	34887	17.500	ug/l		99
67) Ethyl Benzene	10.177	91	171255	17.180	ug/l		99
68) m/p-Xylenes	10.287	106	130995	35.307	ug/l		99
69) o-Xylene	10.628	106	62705	17.473	ug/l		99
70) Styrene	10.640	104	110018	17.497	ug/l		98
71) Bromoform	10.780	173	26057	17.505	ug/l	#	100
73) Isopropylbenzene	10.945	105	160236	16.911	ug/l		99
74) N-amyl acetate	10.829	43	74935	17.343	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	53151	18.541	ug/l		99
76) 1,2,3-Trichloropropane	11.226	75	45508m	18.035	ug/l		
77) Bromobenzene	11.183	156	40990	17.565	ug/l		96
78) n-propylbenzene	11.286	91	188833	16.859	ug/l		99
79) 2-Chlorotoluene	11.347	91	115965	16.904	ug/l		97
80) 1,3,5-Trimethylbenzene	11.433	105	133906	17.201	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	13693	13.838	ug/l		99
82) 4-Chlorotoluene	11.439	91	138107	17.045	ug/l		99
83) tert-Butylbenzene	11.701	119	133788	16.789	ug/l		100
84) 1,2,4-Trimethylbenzene	11.738	105	133626	16.931	ug/l		97
85) sec-Butylbenzene	11.872	105	162042	17.119	ug/l		99
86) p-Isopropyltoluene	11.994	119	134959	16.841	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	75401	17.395	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	75954	17.073	ug/l		98
89) n-Butylbenzene	12.317	91	121947	16.446	ug/l		99
90) Hexachloroethane	12.518	117	22920	16.291	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	72271	17.501	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	10228	17.622	ug/l		97
93) 1,2,4-Trichlorobenzene	13.567	180	43903	16.358	ug/l		98
94) Hexachlorobutadiene	13.707	225	15848	17.385	ug/l		96
95) Naphthalene	13.756	128	138889	16.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.945	180	42676	17.094	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

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

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

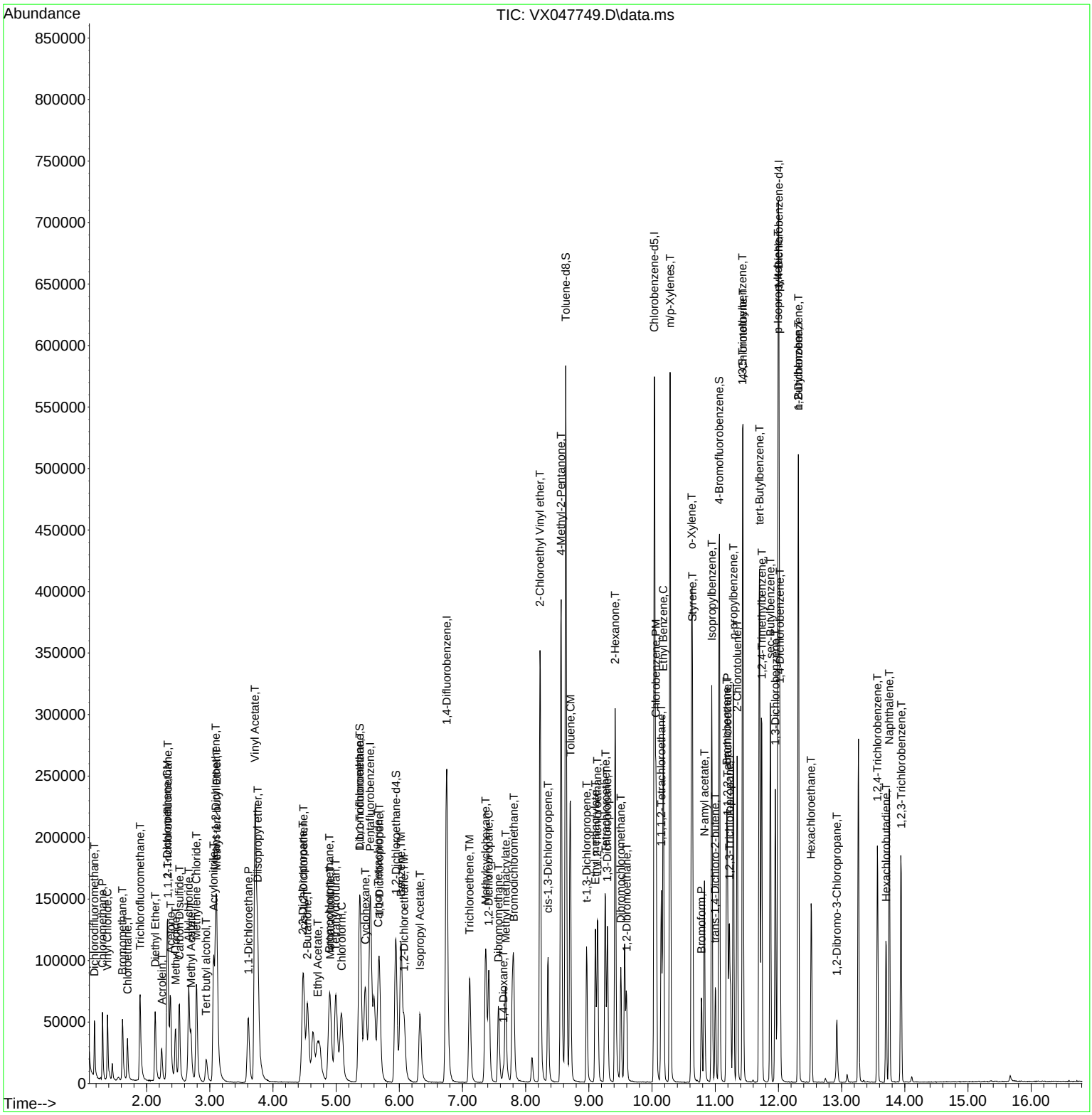
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

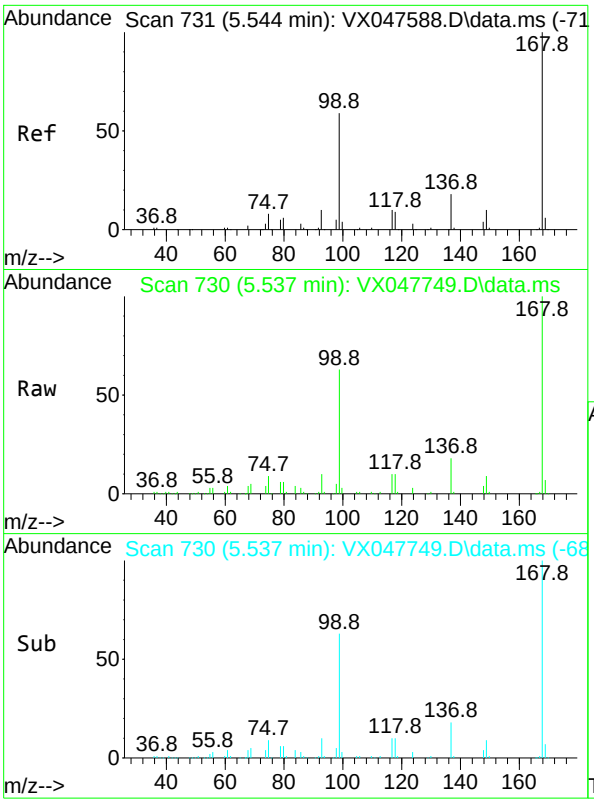
Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

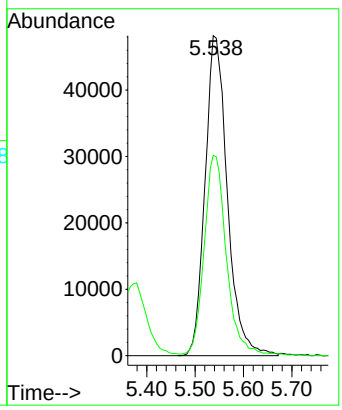




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:168 Resp: 15422

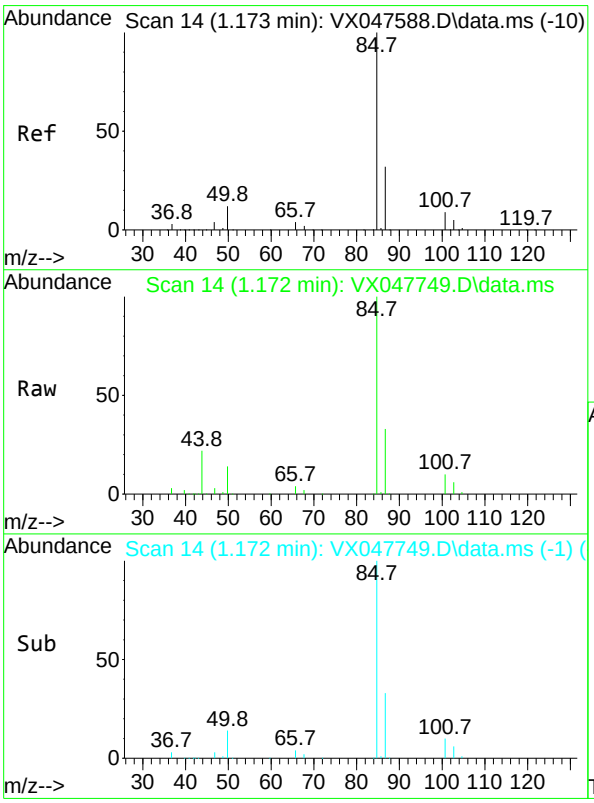
Ion	Ratio	Lower	Upper
168	100		
99	62.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

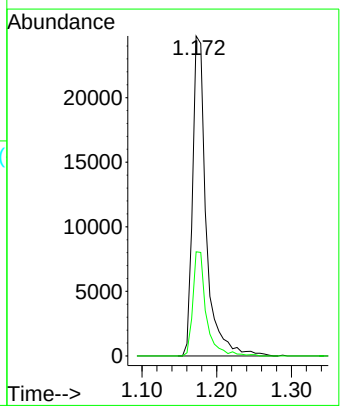
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

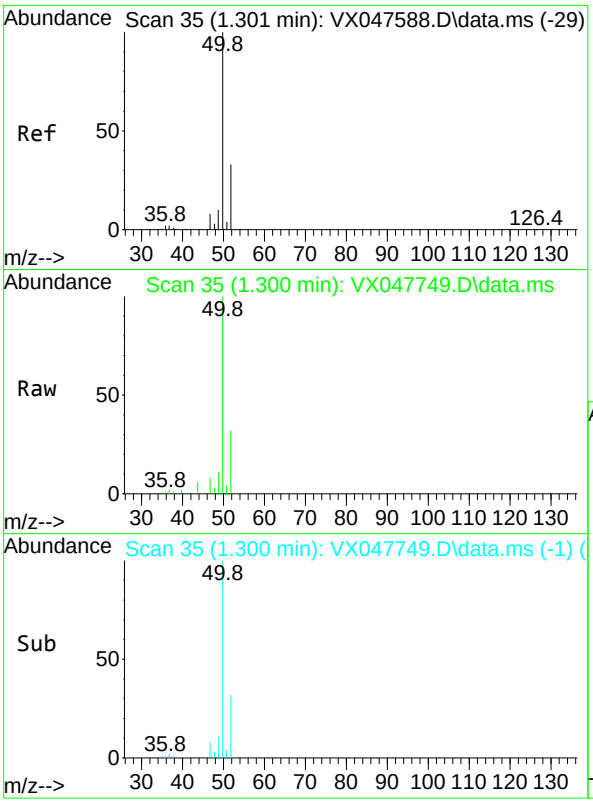


#2
Dichlorodifluoromethane
Concen: 19.633 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 85 Resp: 31354

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

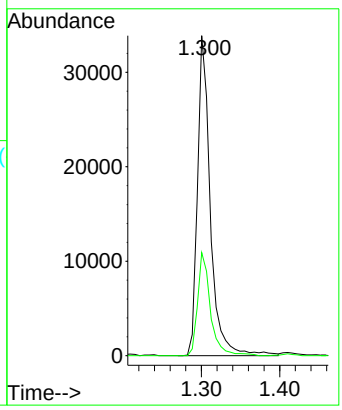




#3
Chloromethane
Concen: 18.490 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 50 Resp: 3880

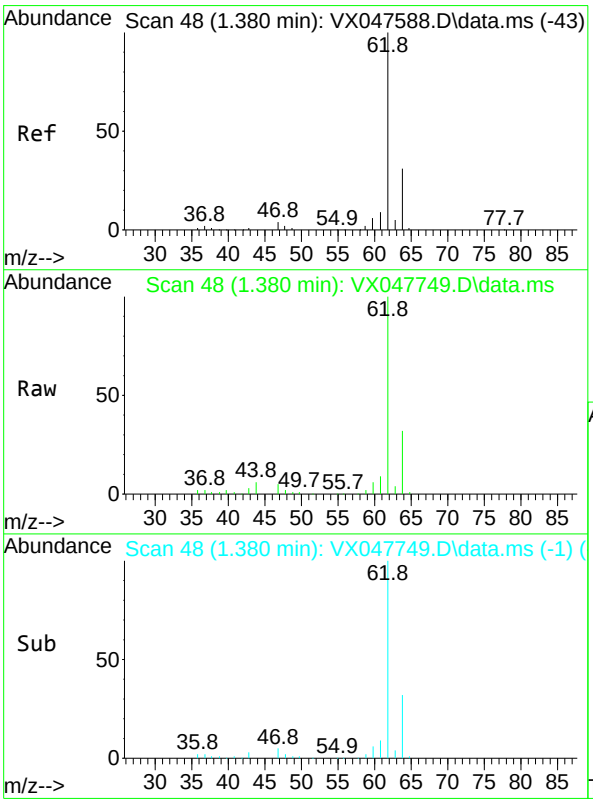
Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

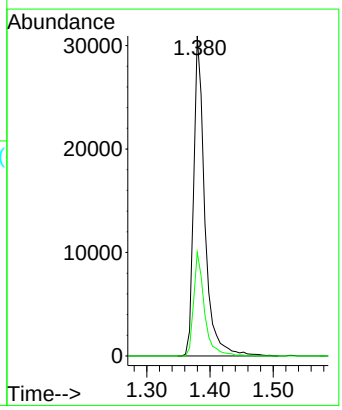
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

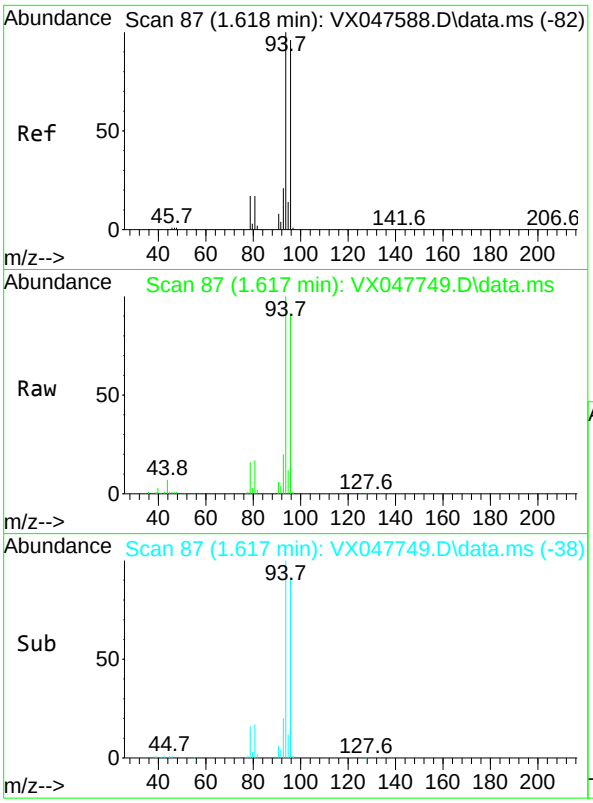


#4
Vinyl Chloride
Concen: 18.441 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 62 Resp: 37889

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.9	37.3

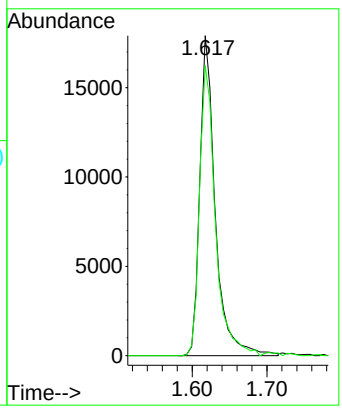




#5
Bromomethane
Concen: 19.739 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 94 Resp: 2571

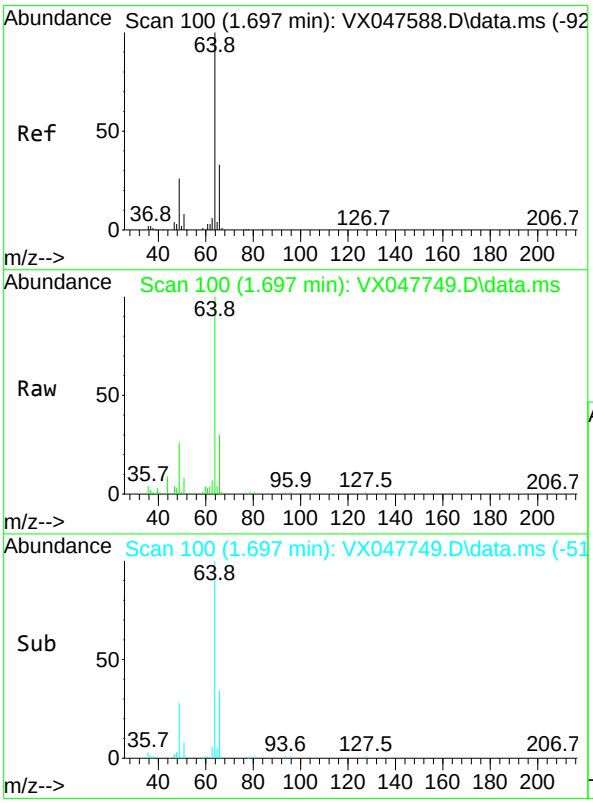
Ion	Ratio	Lower	Upper
94	100		
96	90.7	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

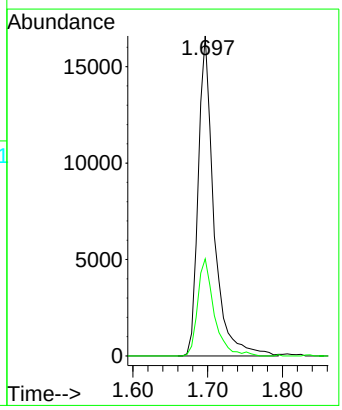
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

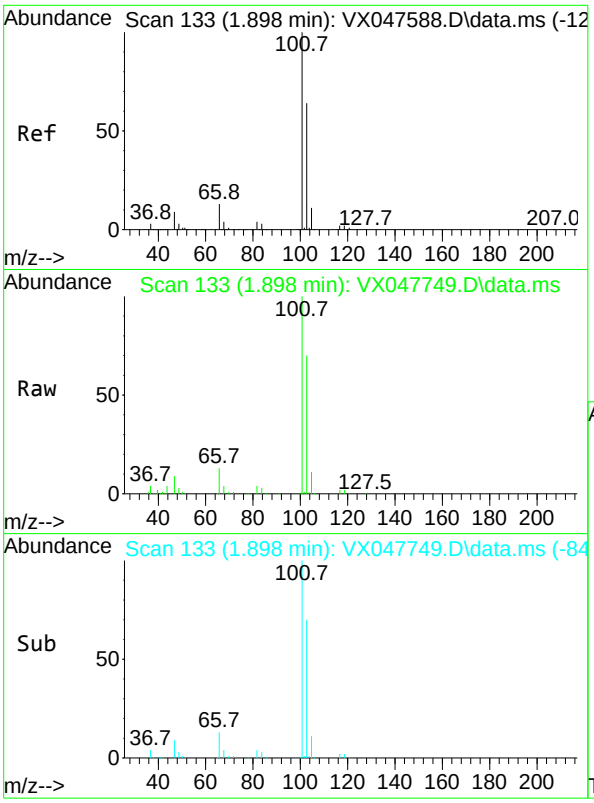


#6
Chloroethane
Concen: 17.573 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 64 Resp: 24132

Ion	Ratio	Lower	Upper
64	100		
66	31.3	26.1	39.1

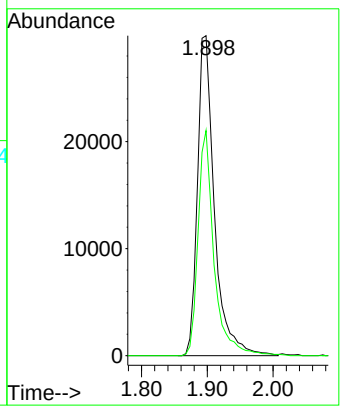




#7
Trichlorofluoromethane
Concen: 17.620 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:101 Resp: 5375

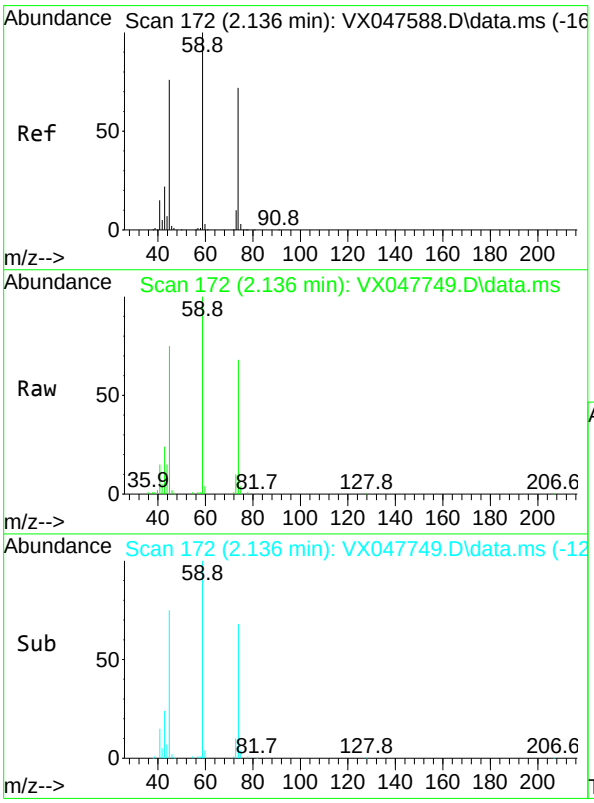
Ion	Ratio	Lower	Upper
101	100		
103	70.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

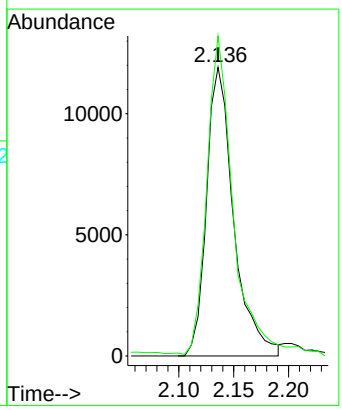
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

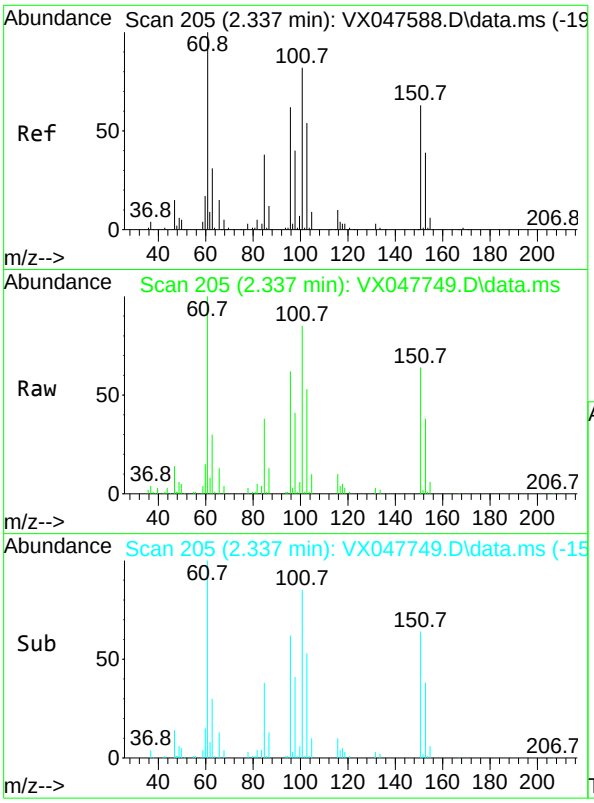


#8
Diethyl Ether
Concen: 16.462 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 74 Resp: 20543

Ion	Ratio	Lower	Upper
74	100		
45	110.1	52.3	156.8

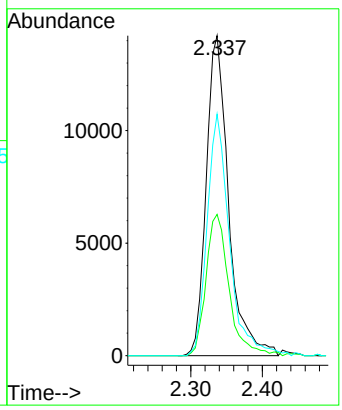




#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.267 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:101 Resp: 3080

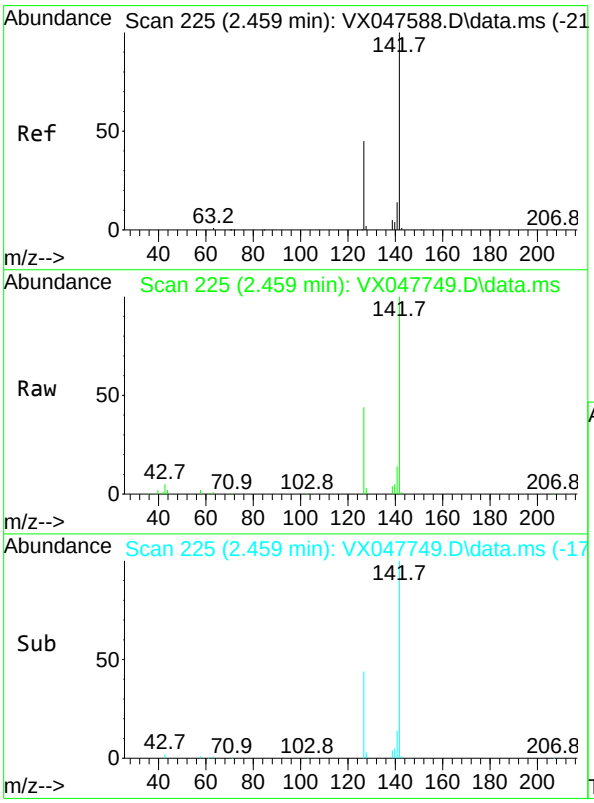
Ion	Ratio	Lower	Upper
101	100		
85	45.6	35.5	53.3
151	75.6	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

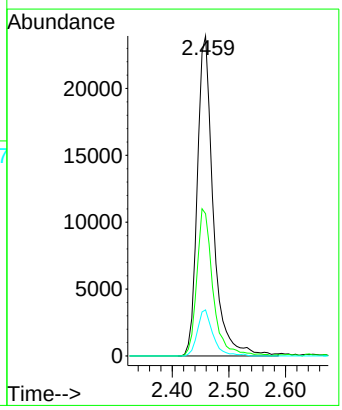
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

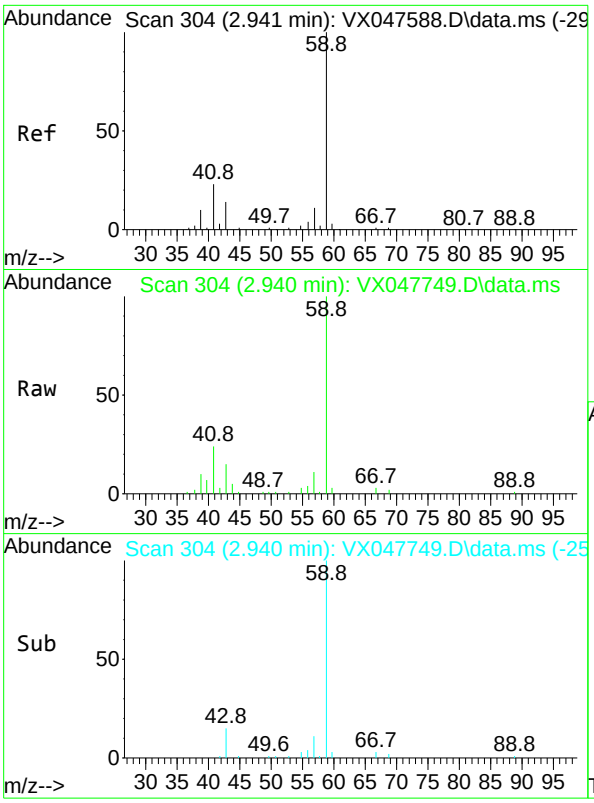


#10
Methyl Iodide
Concen: 16.795 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:142 Resp: 46724

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.1	11.4	17.0

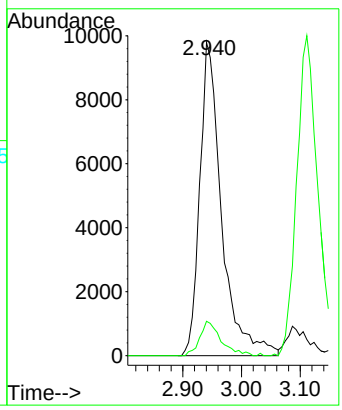




#11
Tert butyl alcohol
Concen: 92.450 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 59 Resp: 2527

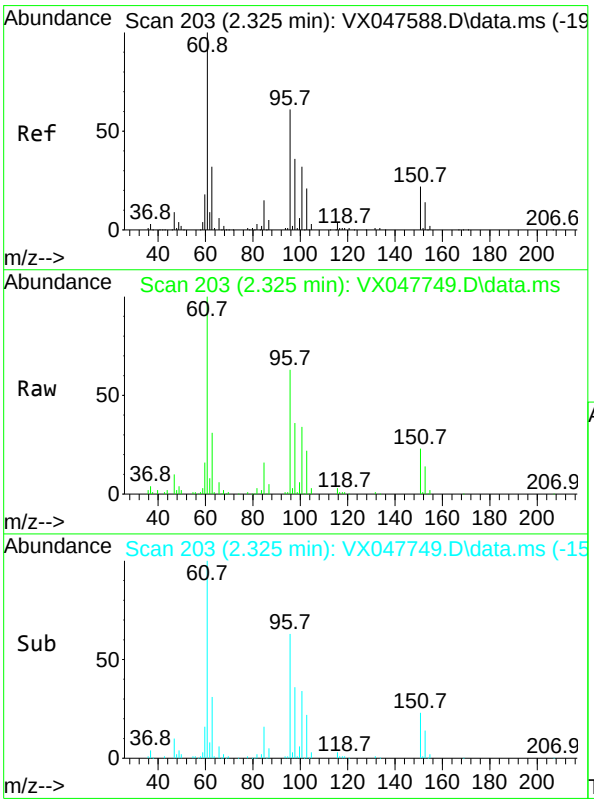
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

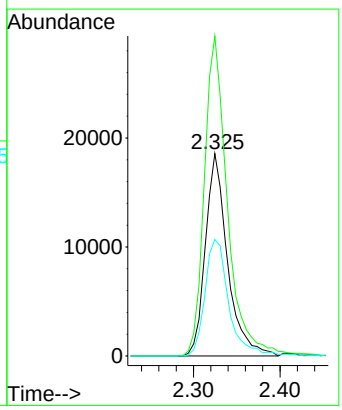
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

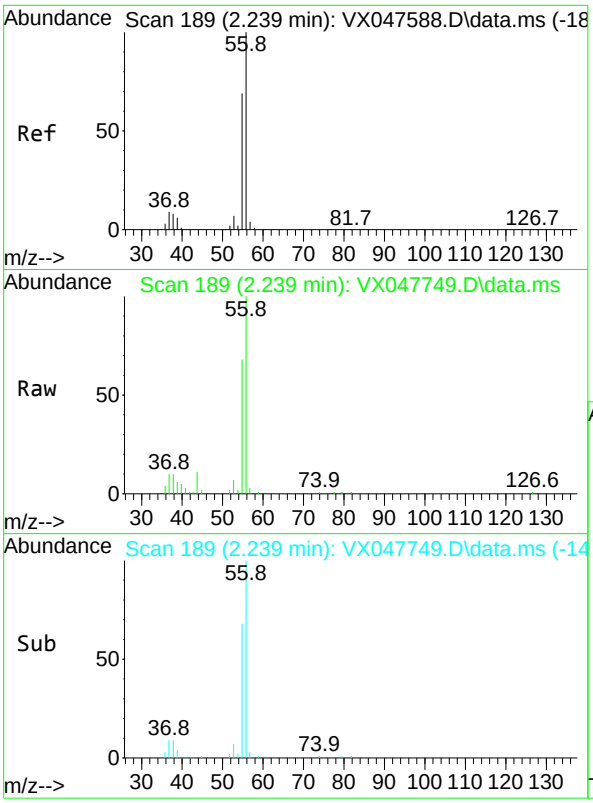


#12
1,1-Dichloroethene
Concen: 17.992 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 96 Resp: 32967

Ion	Ratio	Lower	Upper
96	100		
61	158.1	131.0	196.6
98	57.5	47.7	71.5

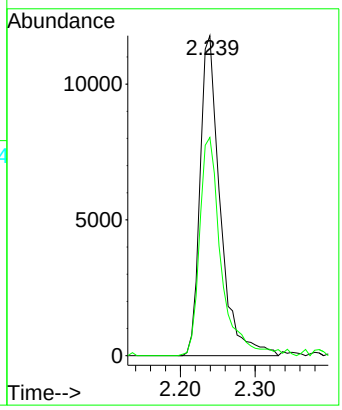




#13
Acrolein
Concen: 87.491 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 56 Resp: 2204

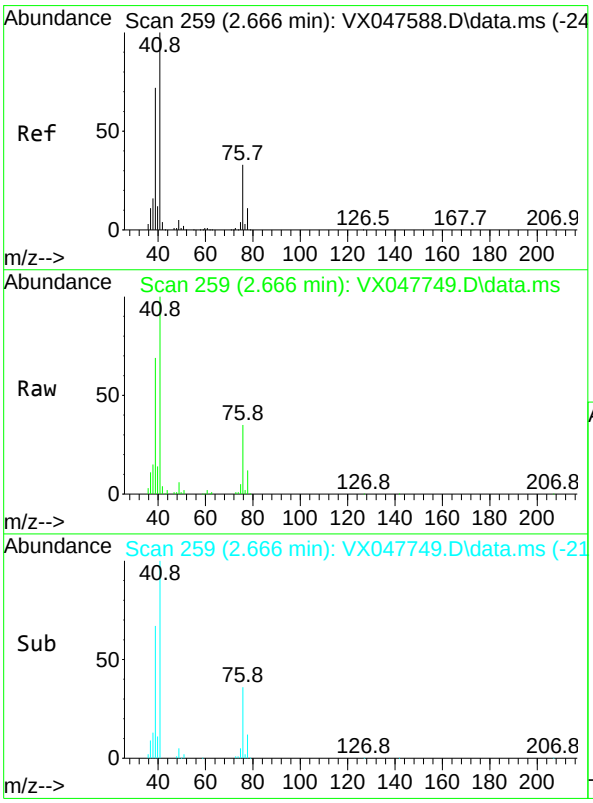
Ion	Ratio	Lower	Upper
56	100		
55	73.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

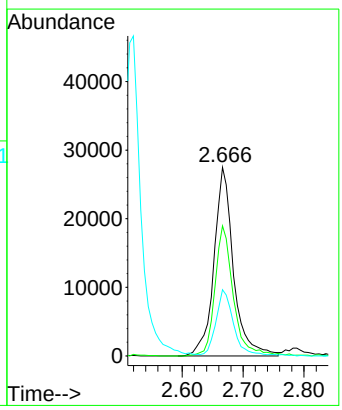
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

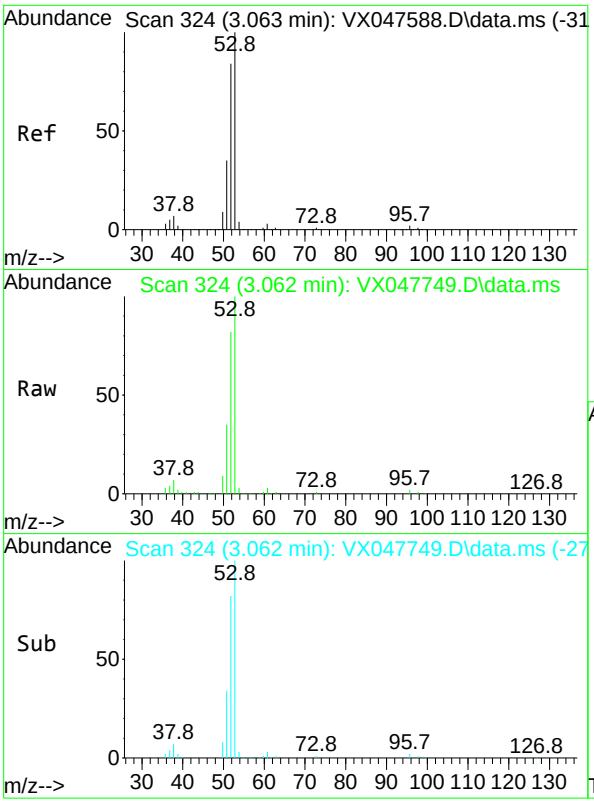


#14
Allyl chloride
Concen: 16.234 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 41 Resp: 61383

Ion	Ratio	Lower	Upper
41	100		
39	65.1	54.7	82.1
76	32.2	25.7	38.5

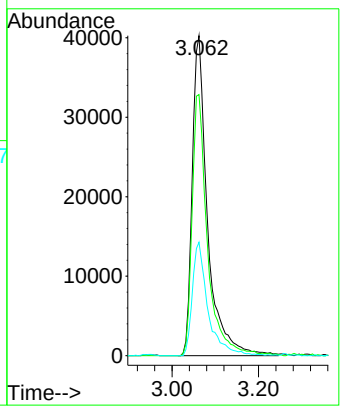




#15
Acrylonitrile
Concen: 97.927 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 53 Resp: 9917

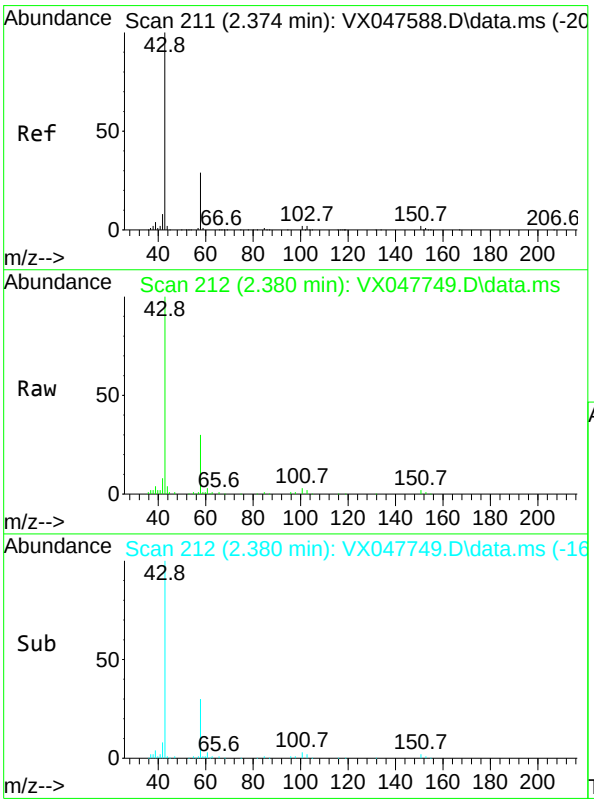
Ion	Ratio	Lower	Upper
53	100		
52	81.3	66.4	99.6
51	36.2	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

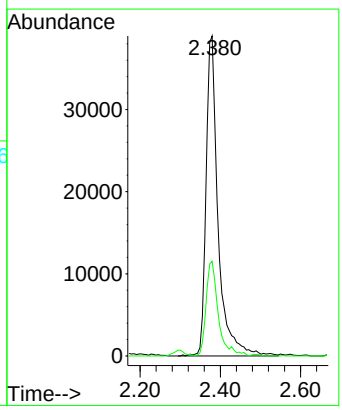
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

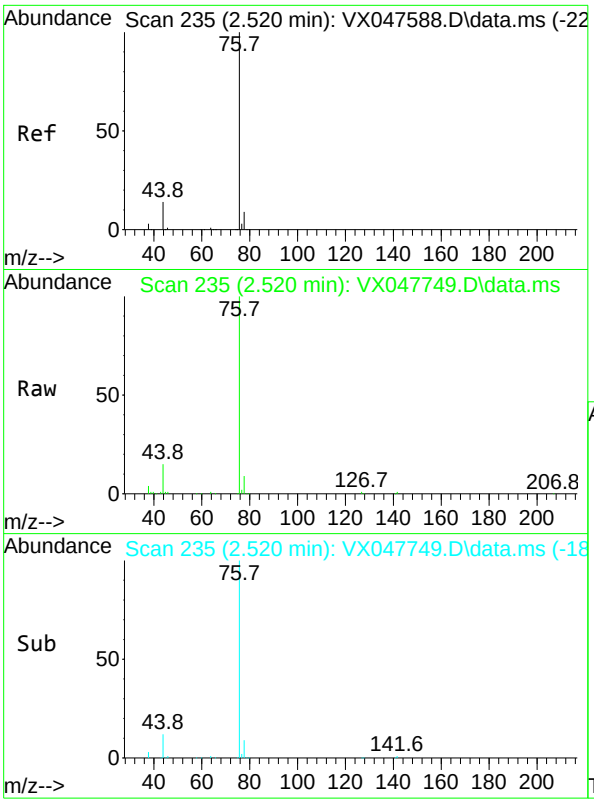


#16
Acetone
Concen: 75.863 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 80974

Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.4	35.0

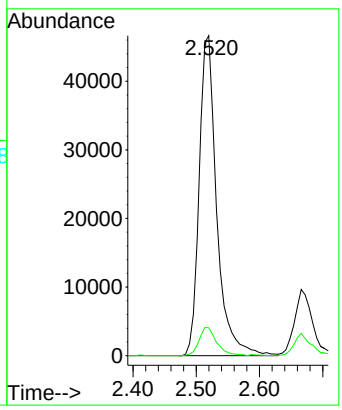




#17
Carbon Disulfide
Concen: 17.953 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 76 Resp: 9005

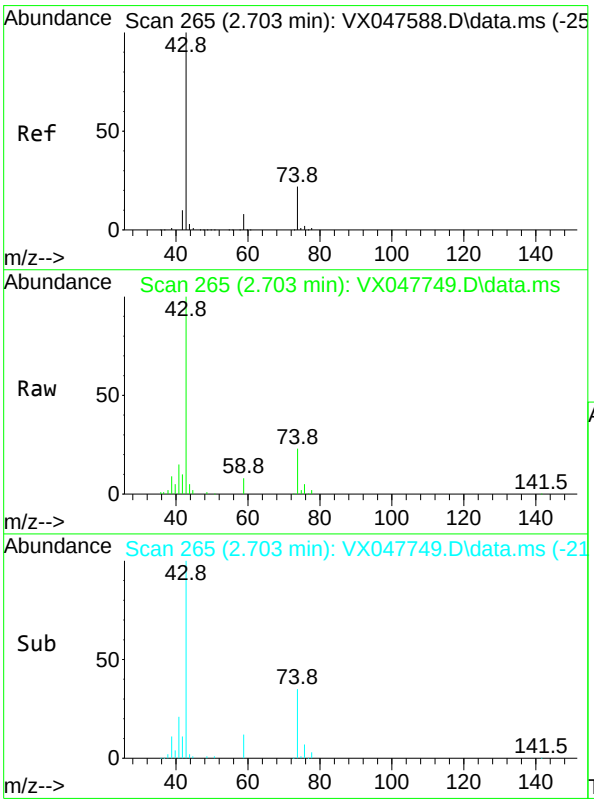
Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

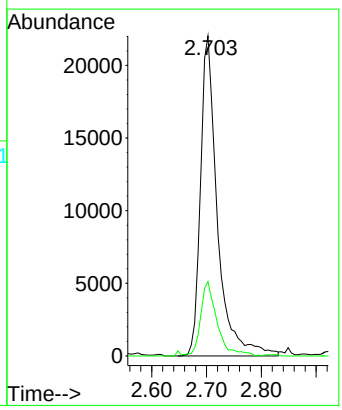
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

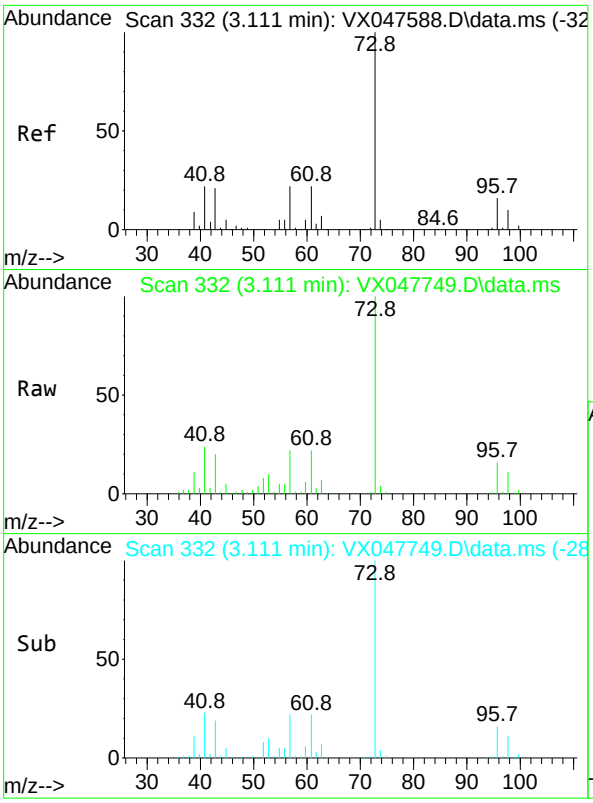


#18
Methyl Acetate
Concen: 19.846 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 47143

Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.4	26.2

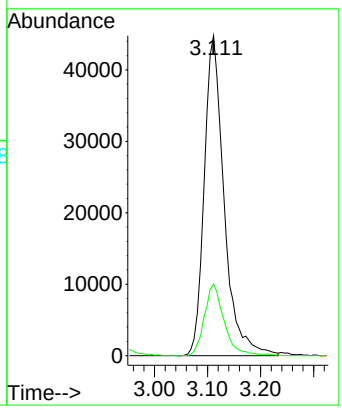




#19
Methyl tert-butyl Ether
Concen: 17.451 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 73 Resp: 11672

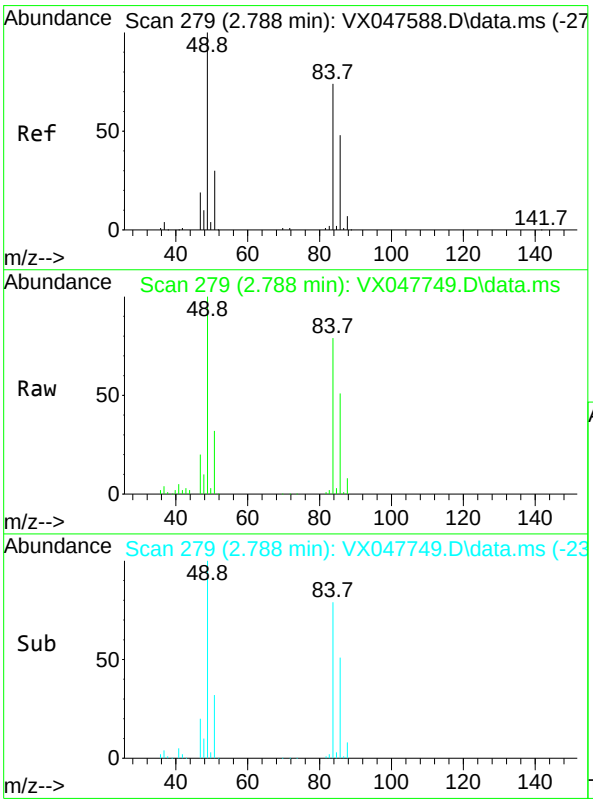
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

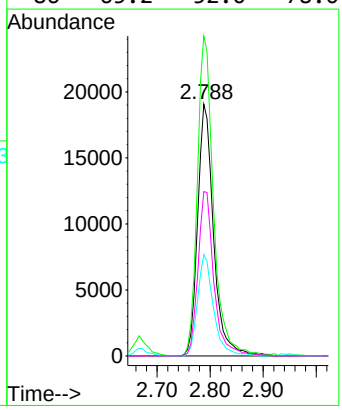
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

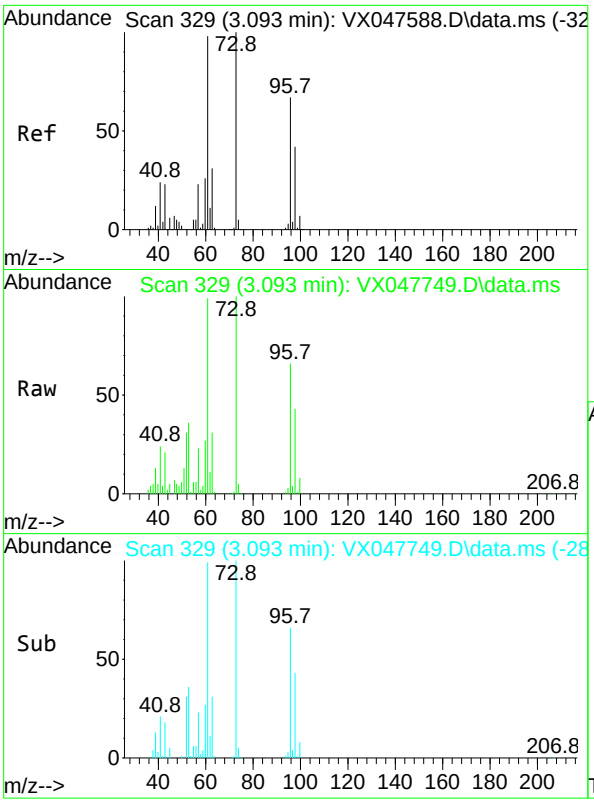


#20
Methylene Chloride
Concen: 17.666 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 84 Resp: 39914

Ion	Ratio	Lower	Upper
84	100		
49	127.0	108.6	162.8
51	40.2	32.6	48.8
86	65.2	52.0	78.0

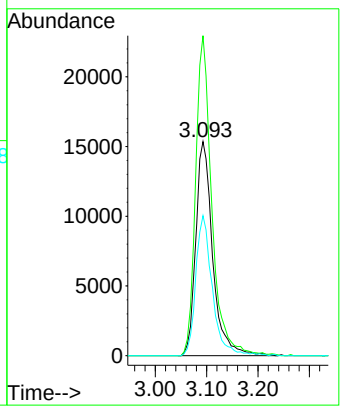




#21
trans-1,2-Dichloroethene
Concen: 17.798 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 96 Resp: 3511

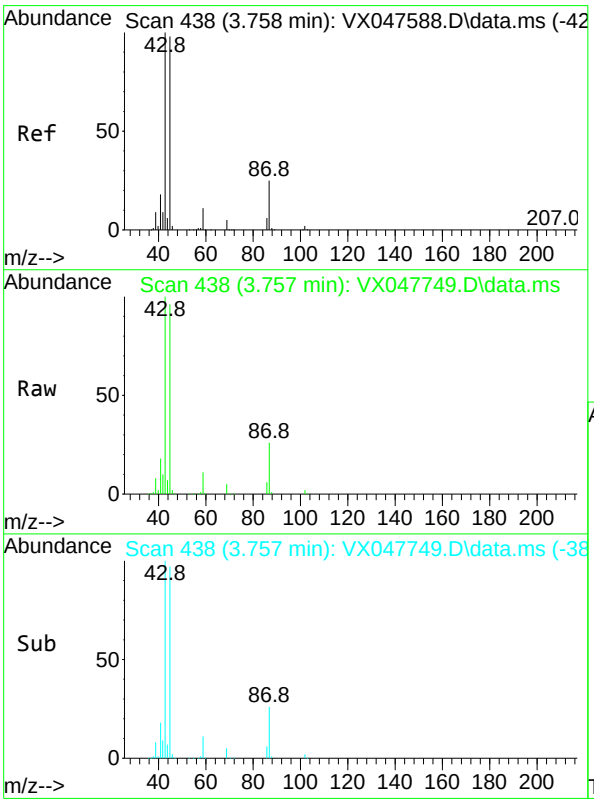
Ion	Ratio	Lower	Upper
96	100		
61	140.9	116.2	174.2
98	61.7	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

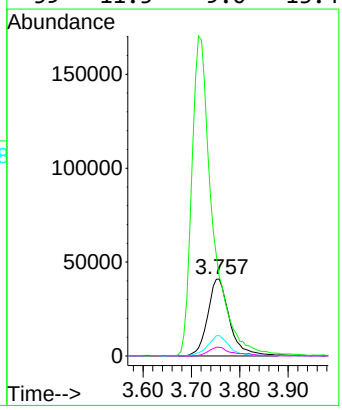
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

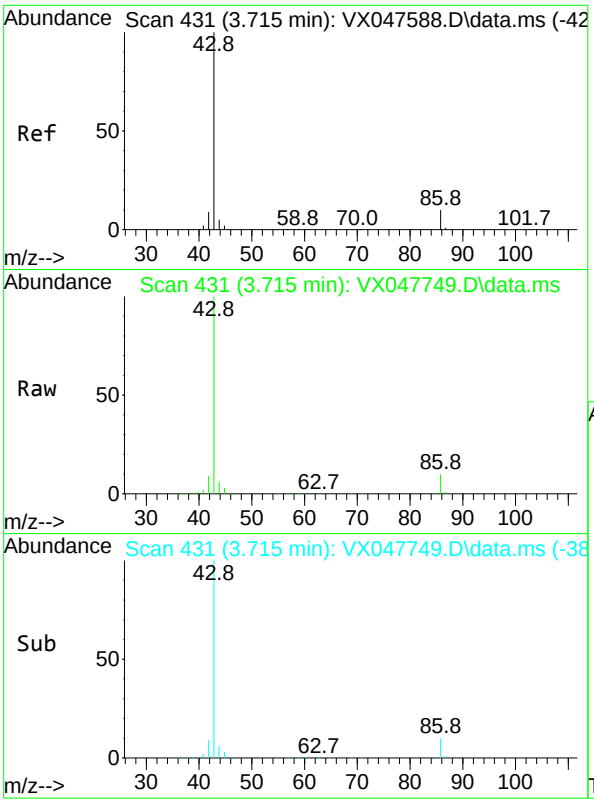


#22
Diisopropyl ether
Concen: 17.583 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 45 Resp: 128843

Ion	Ratio	Lower	Upper
45	100		
43	101.3	81.0	121.4
87	26.7	20.3	30.5
59	11.5	9.0	13.4





#23
Vinyl Acetate
Concen: 87.666 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

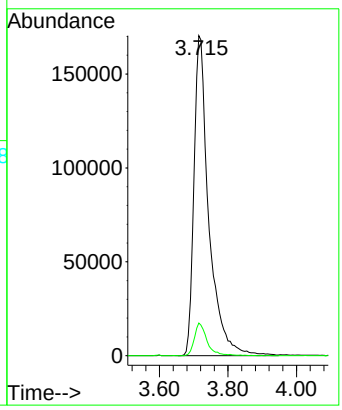
Tgt Ion: 43 Resp: 51413

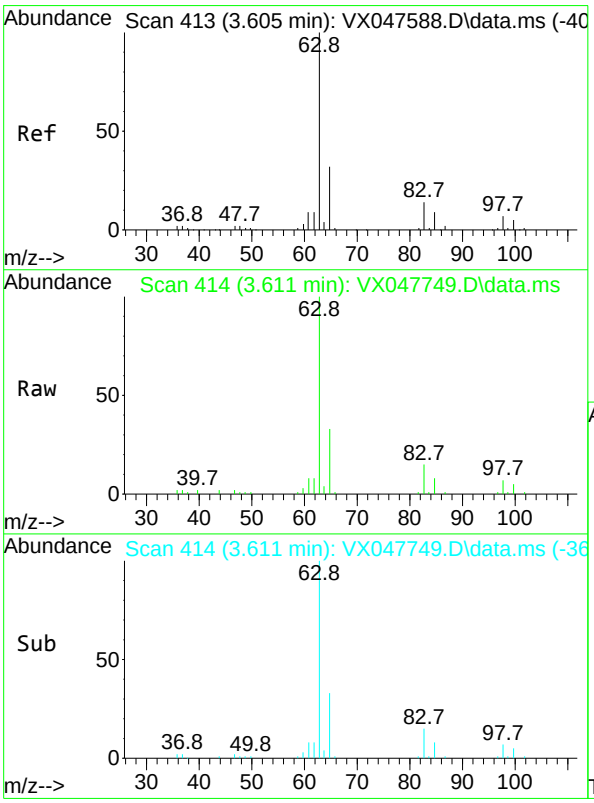
Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

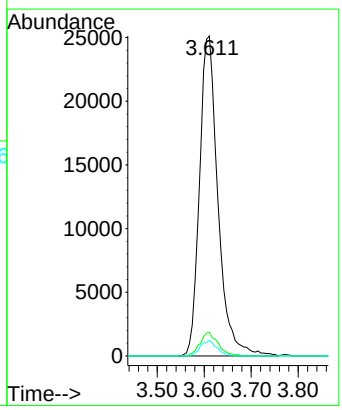


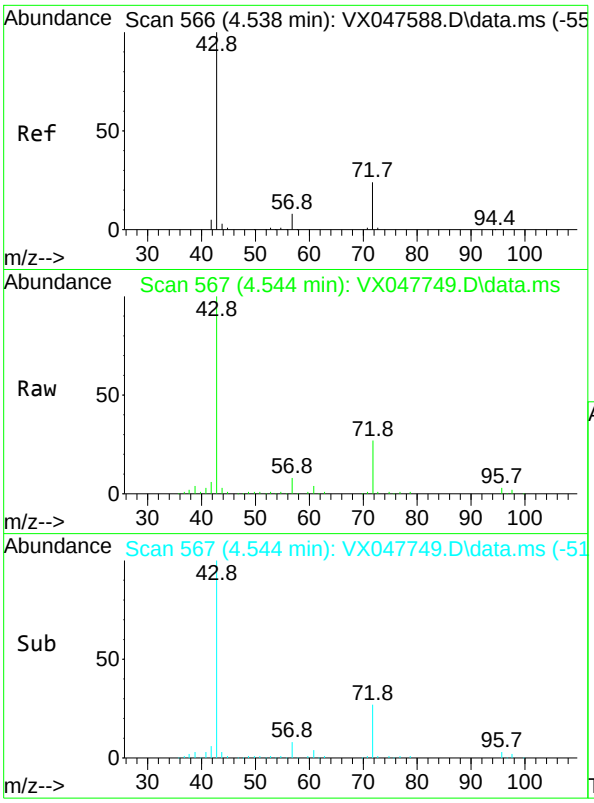


#24
1,1-Dichloroethane
Concen: 17.640 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 63 Resp: 68705

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.8	11.2
100	4.8	2.3	6.9

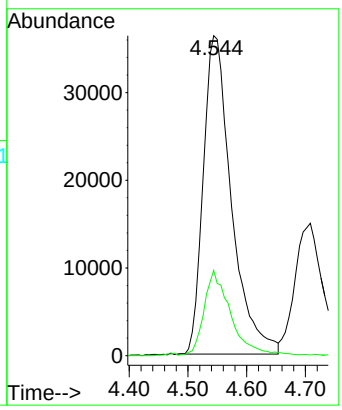




#25
2-Butanone
Concen: 90.824 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 12092

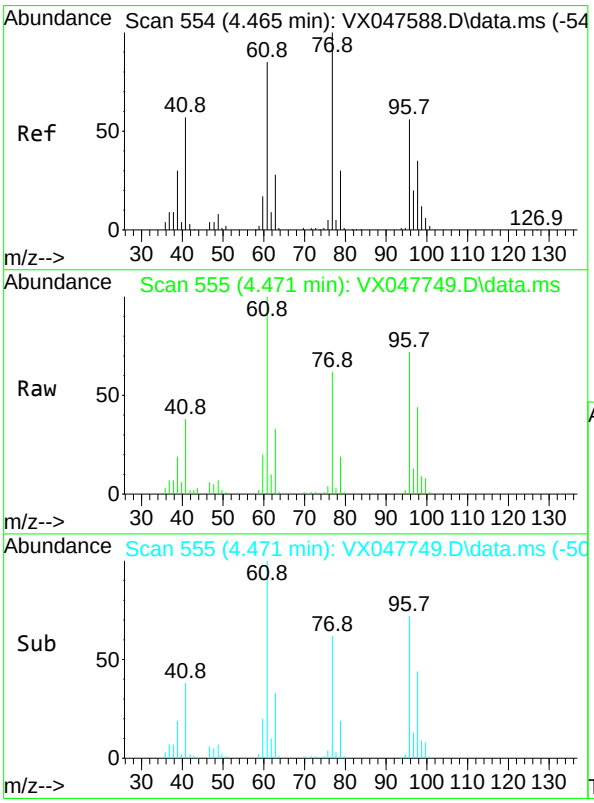
Ion	Ratio	Lower	Upper
43	100		
72	27.7	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

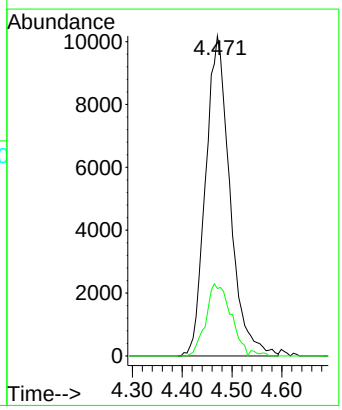
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

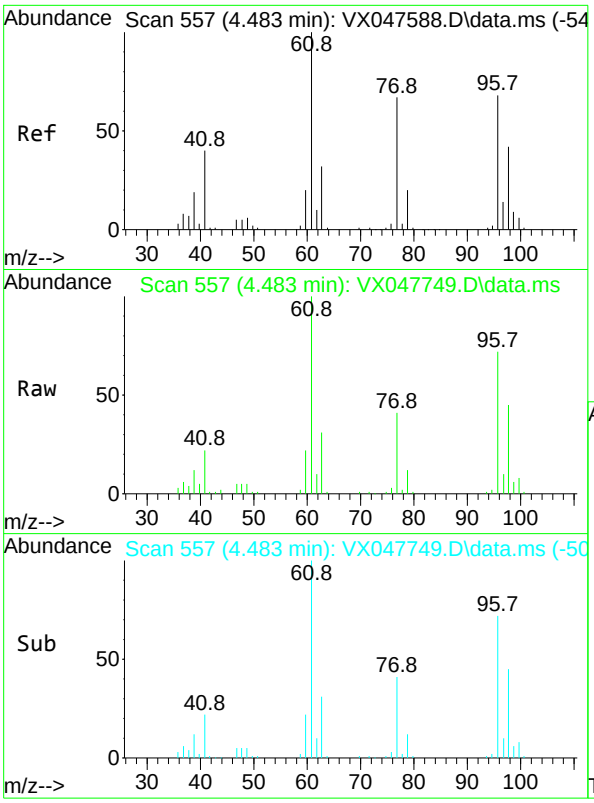


#26
2,2-Dichloropropane
Concen: 10.683 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 77 Resp: 34586

Ion	Ratio	Lower	Upper
77	100		
97	23.3	10.9	32.7

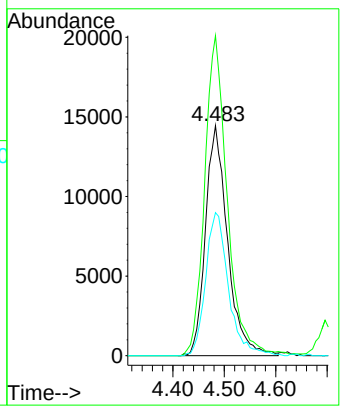




#27
cis-1,2-Dichloroethene
Concen: 17.862 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 96 Resp: 4315

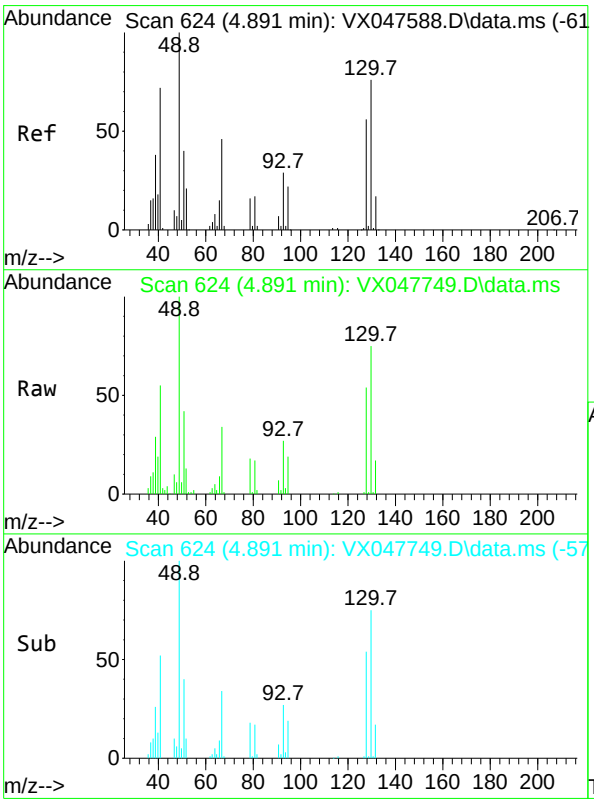
Ion	Ratio	Lower	Upper
96	100		
61	141.0	0.0	303.2
98	64.3	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

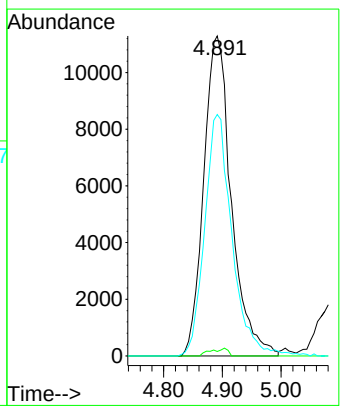
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

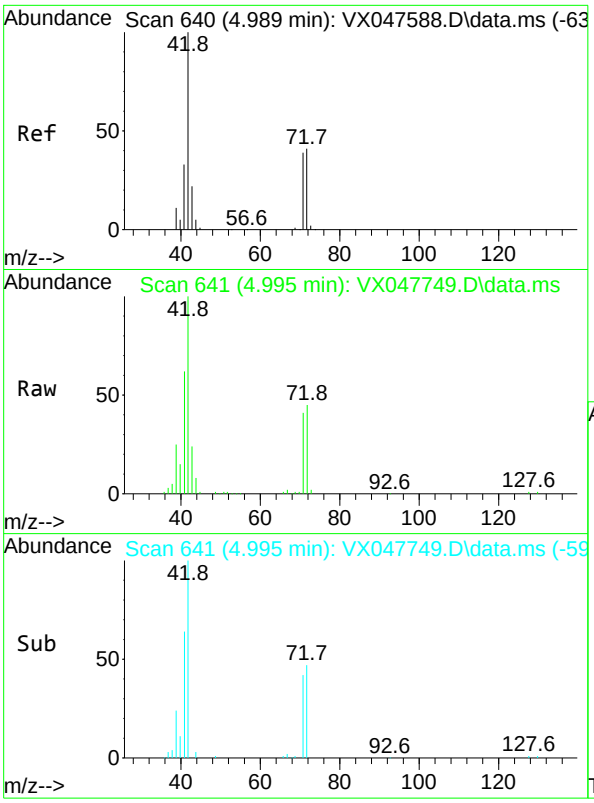


#28
Bromochloromethane
Concen: 21.721 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 49 Resp: 36933

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	74.7	57.8	86.8

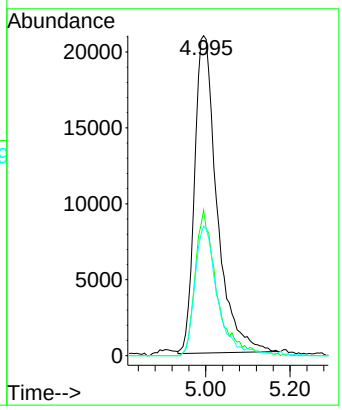




#29
Tetrahydrofuran
Concen: 96.655 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 42 Resp: 7741

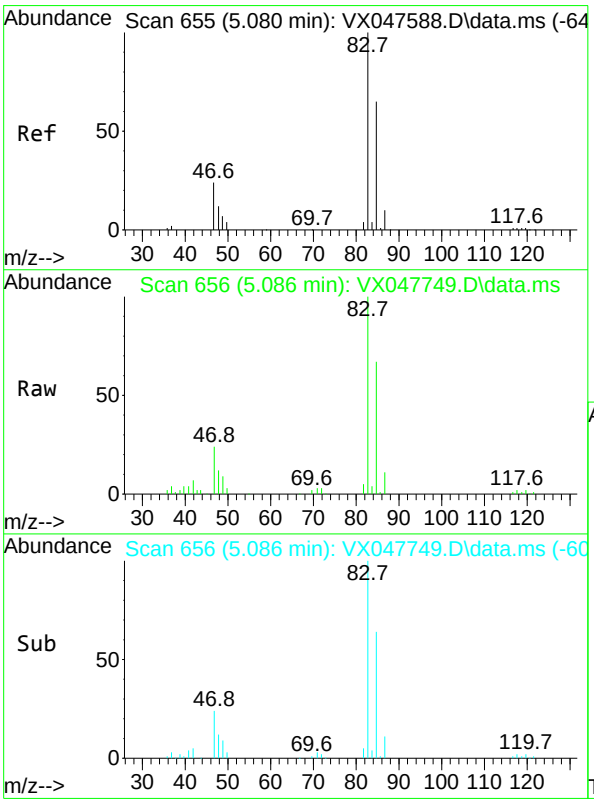
Ion	Ratio	Lower	Upper
42	100		
72	44.2	34.2	51.2
71	39.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

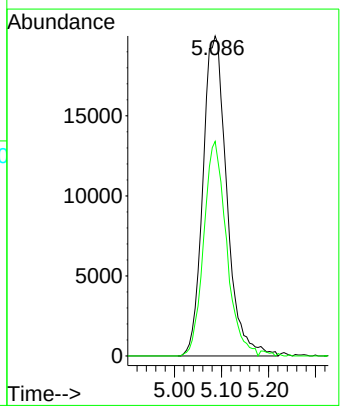
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

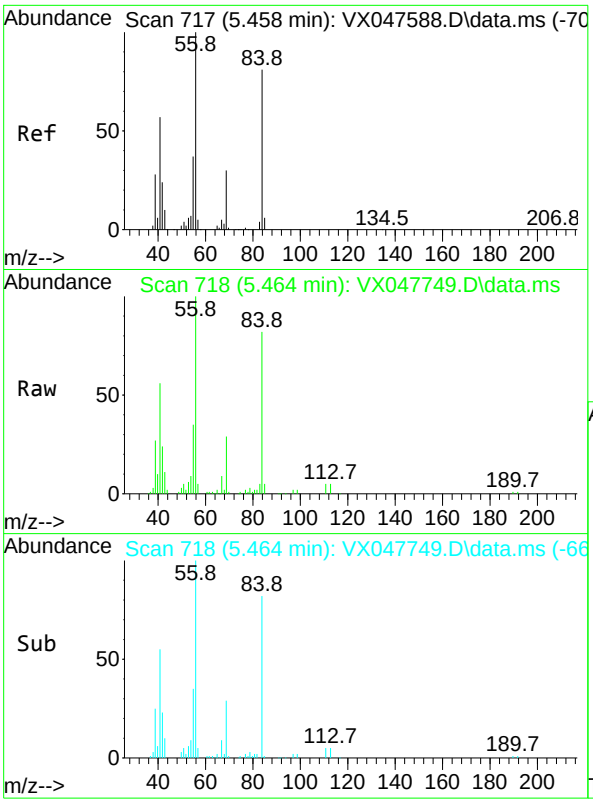


#30
Chloroform
Concen: 17.922 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 83 Resp: 70538

Ion	Ratio	Lower	Upper
83	100		
85	68.3	51.8	77.6

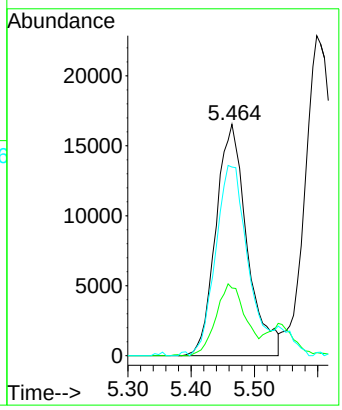




#31
Cyclohexane
Concen: 17.427 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 56 Resp: 5653

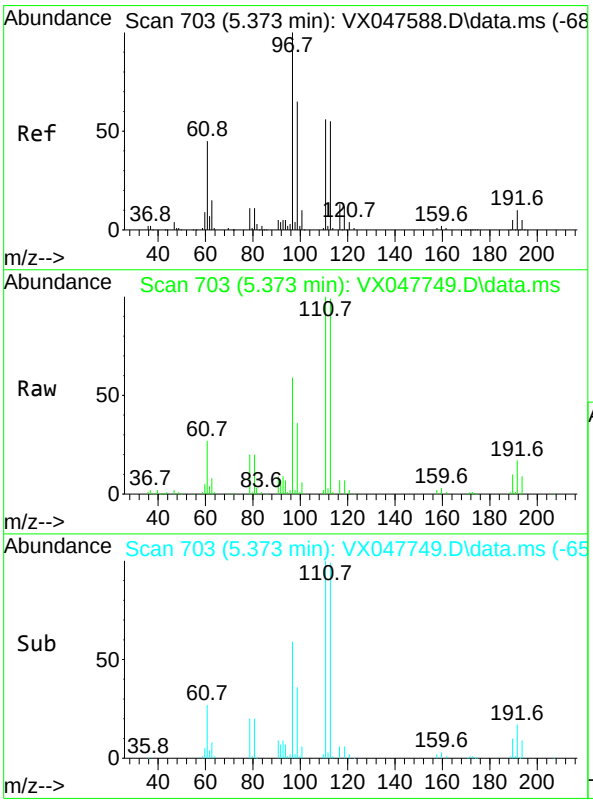
Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.8	35.8
84	81.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

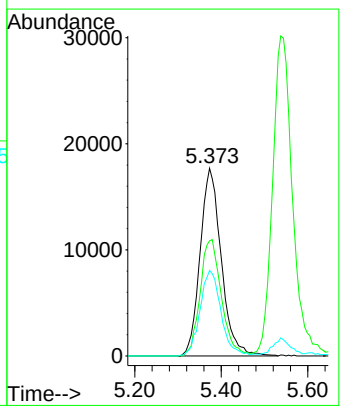
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

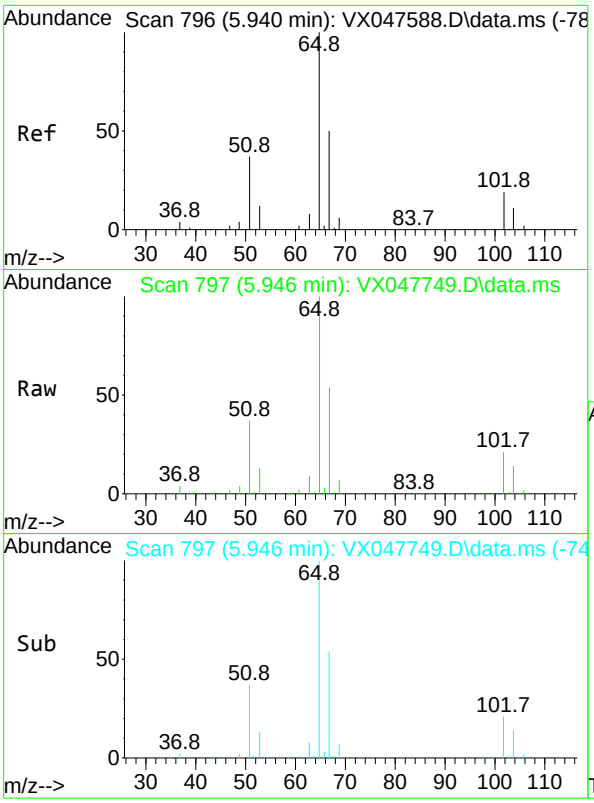


#32
1,1,1-Trichloroethane
Concen: 17.972 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 97 Resp: 59999

Ion	Ratio	Lower	Upper
97	100		
99	62.4	50.6	76.0
61	45.1	35.8	53.8

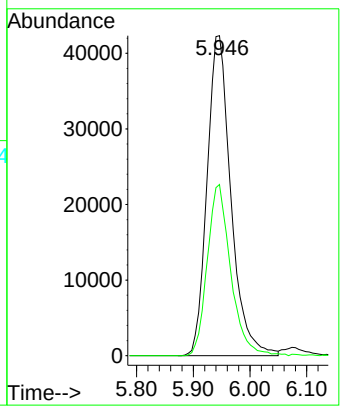




#33
1,2-Dichloroethane-d4
Concen: 50.353 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 65 Resp: 12360

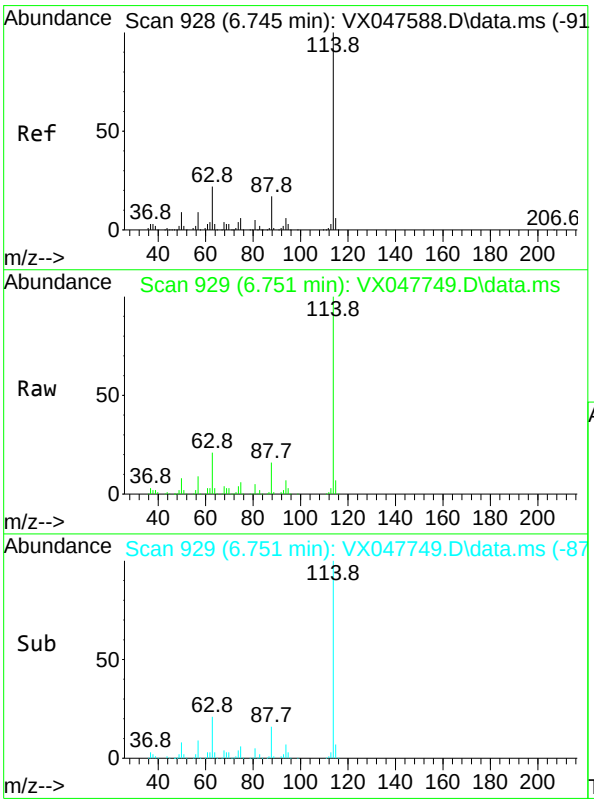
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

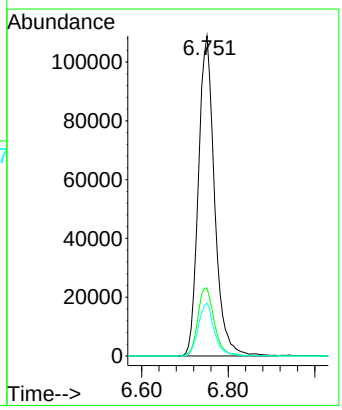
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

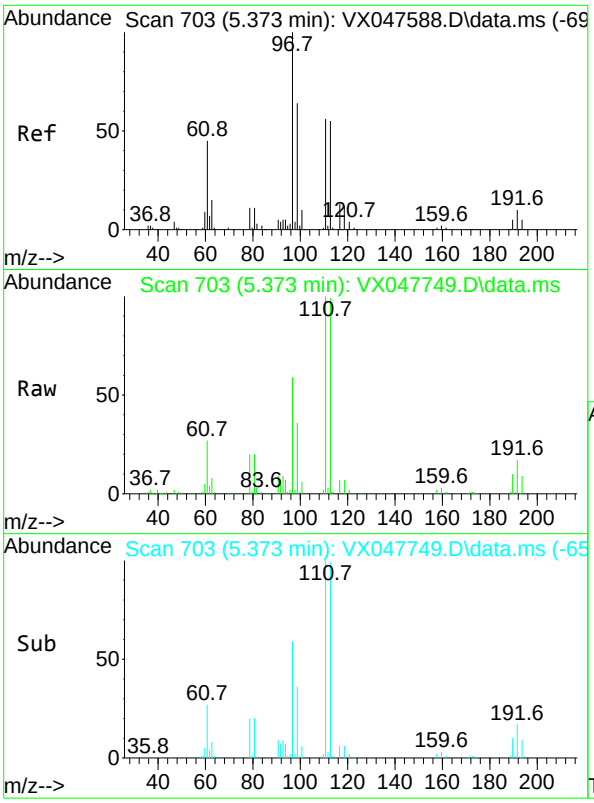


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:114 Resp: 281988

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.5	0.0	34.2

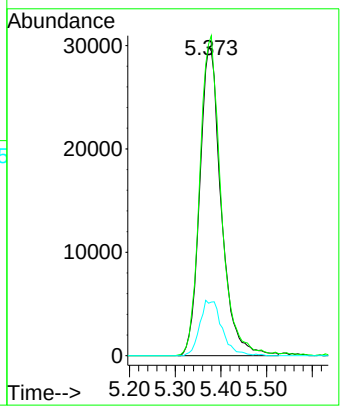




#35
Dibromofluoromethane
Concen: 51.300 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:113 Resp: 9701

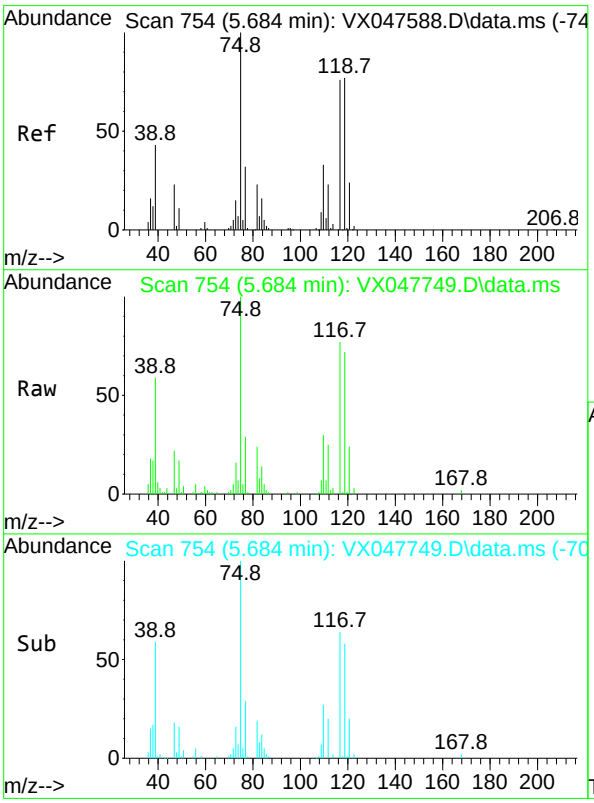
Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	18.4	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

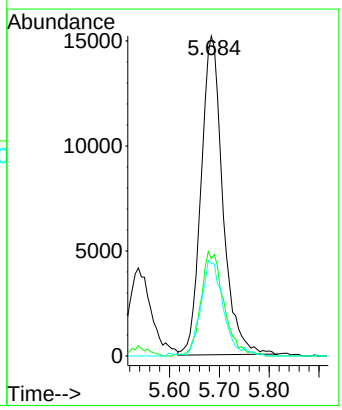
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

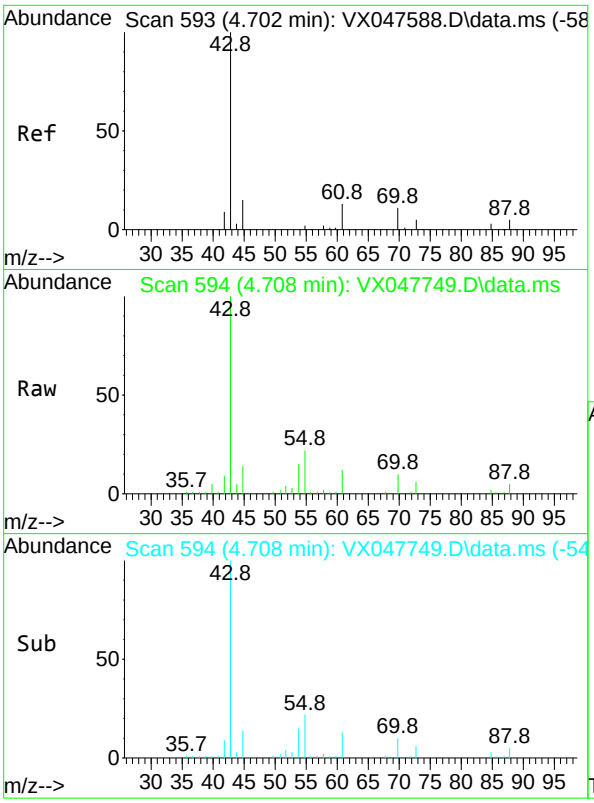


#36
1,1-Dichloropropene
Concen: 16.558 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 45756

Ion	Ratio	Lower	Upper
75	100		
110	34.8	16.7	50.1
77	30.9	24.3	36.5

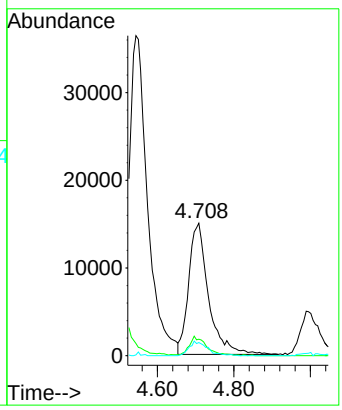




#37
Ethyl Acetate
Concen: 18.208 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 5387

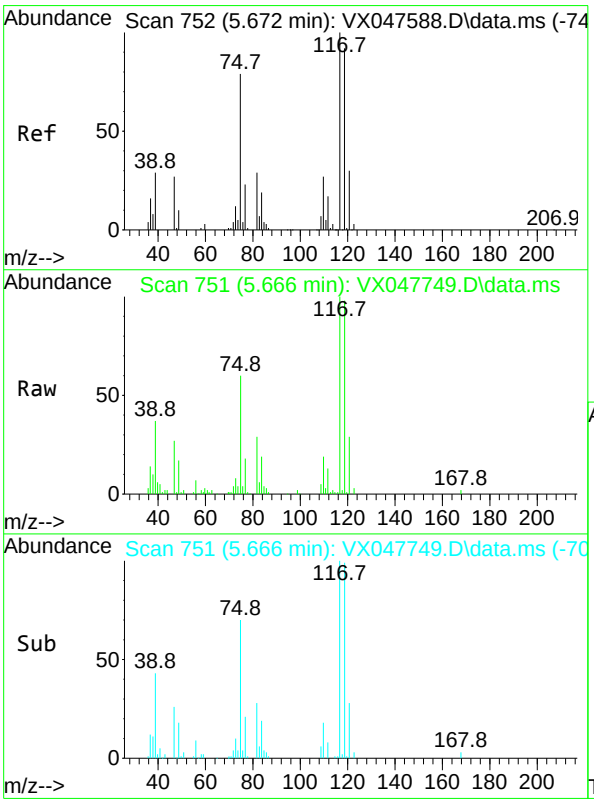
Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.8	14.8
70	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

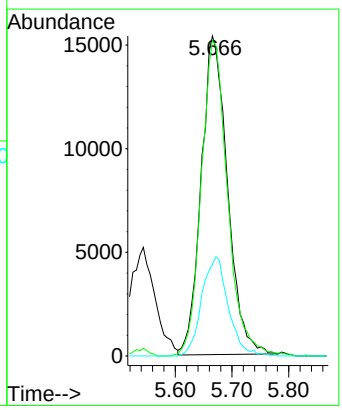
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

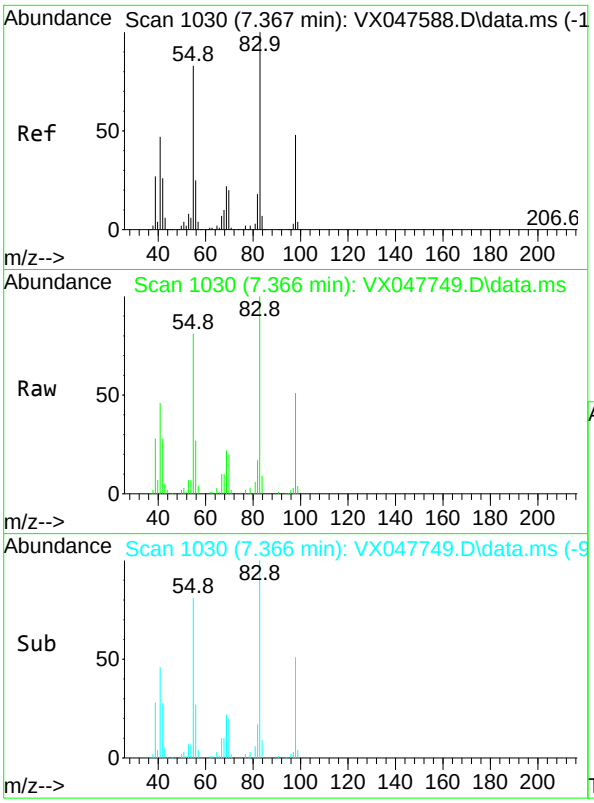


#38
Carbon Tetrachloride
Concen: 16.532 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:117 Resp: 49639

Ion	Ratio	Lower	Upper
117	100		
119	98.4	73.4	110.2
121	28.8	23.8	35.6

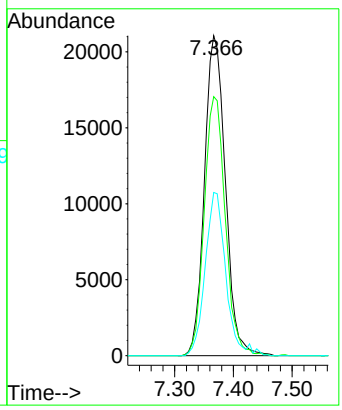




#39
Methylcyclohexane
Concen: 16.646 ug/l
RT: 7.366 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 83 Resp: 5221(

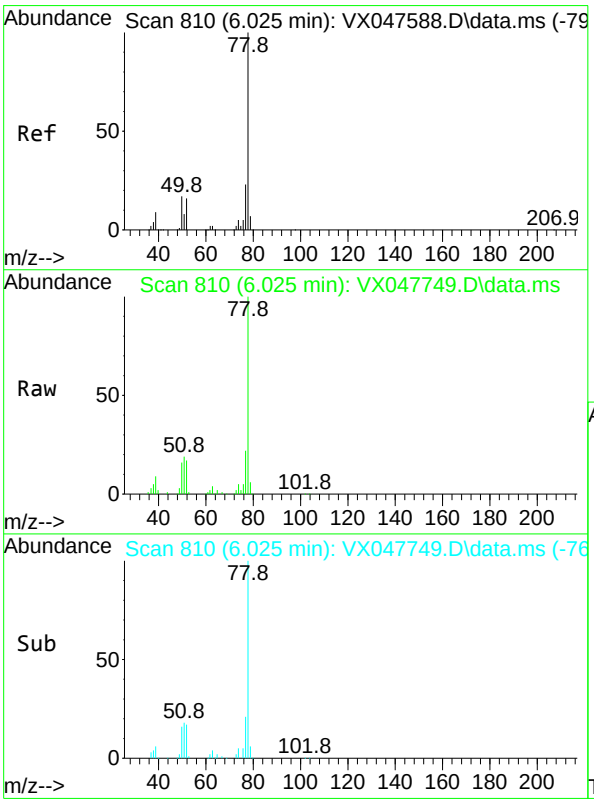
Ion	Ratio	Lower	Upper
83	100		
55	80.9	66.4	99.6
98	51.0	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

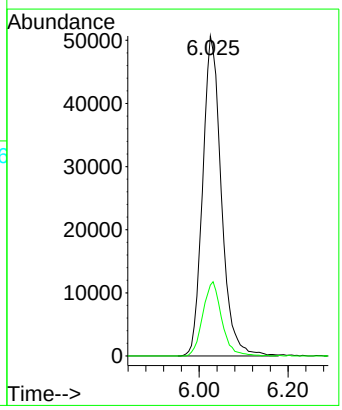
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

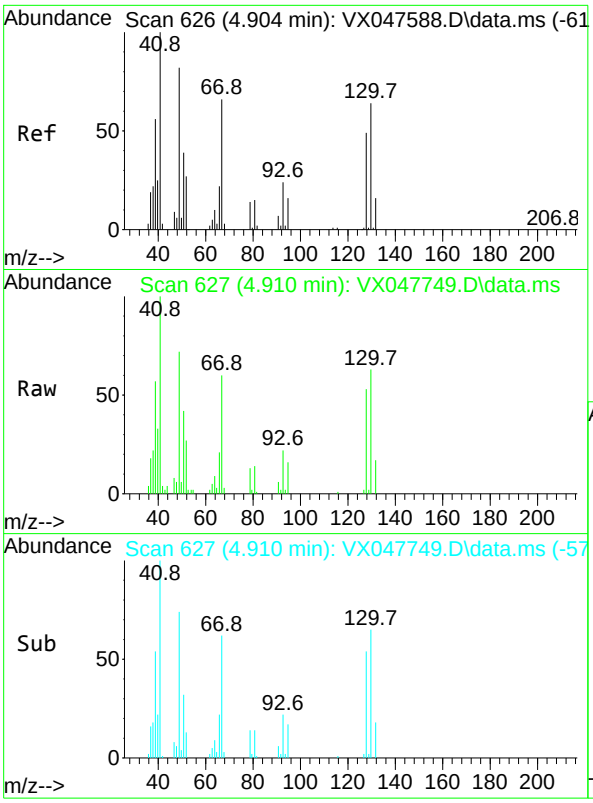


#40
Benzene
Concen: 17.674 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 78 Resp: 148339

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.8	28.2

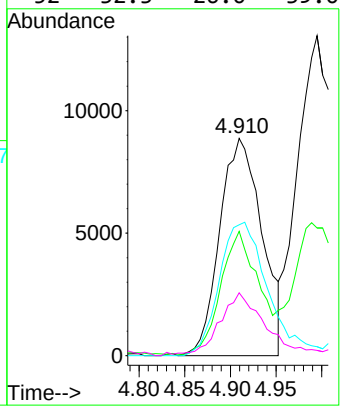




#41
Methacrylonitrile
Concen: 18.722 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 41 Resp: 2859

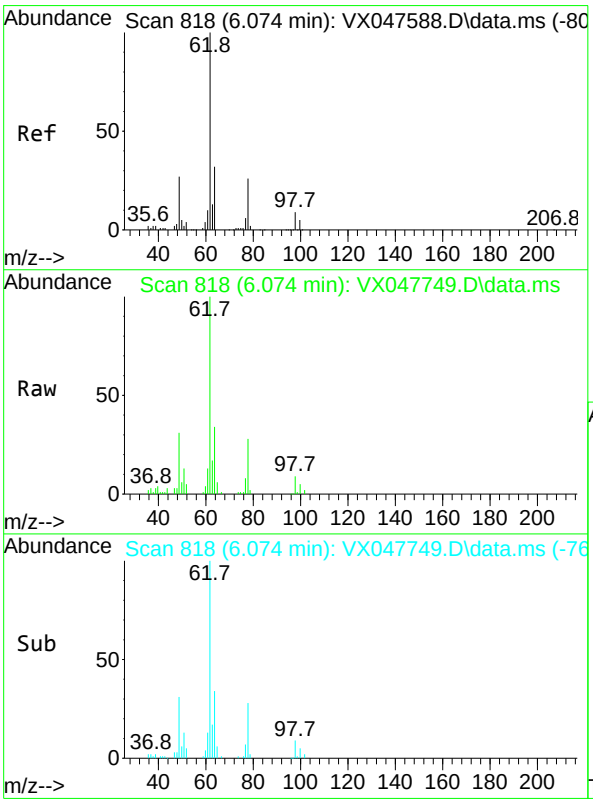
Ion	Ratio	Lower	Upper
41	100		
39	50.1	43.3	64.9
67	70.1	58.6	87.8
52	32.3	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

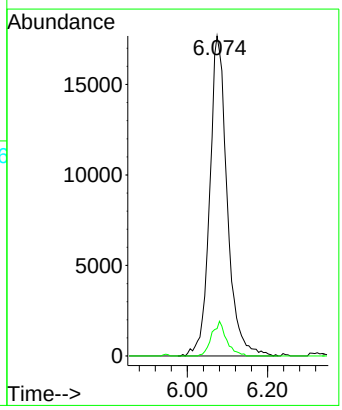
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

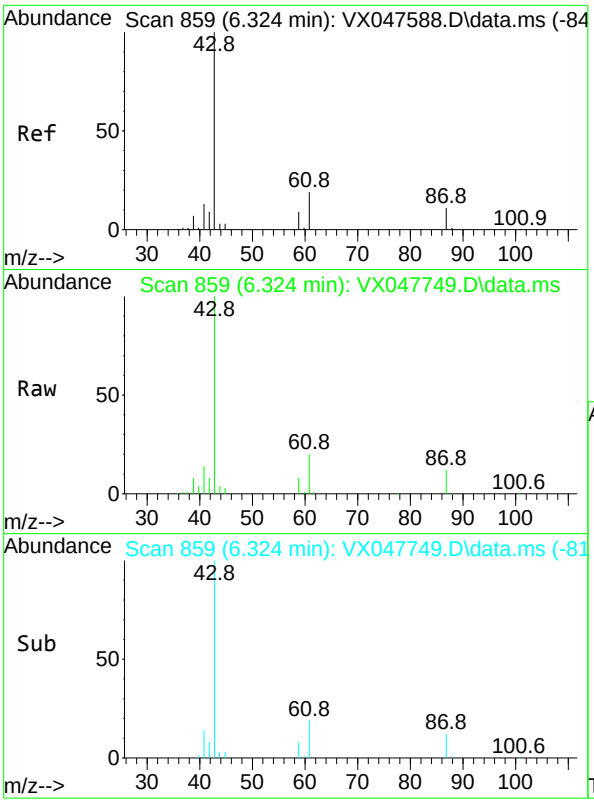


#42
1,2-Dichloroethane
Concen: 16.765 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 62 Resp: 53538

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0

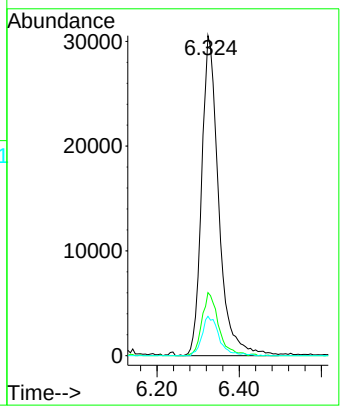




#43
Isopropyl Acetate
Concen: 18.134 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 8800

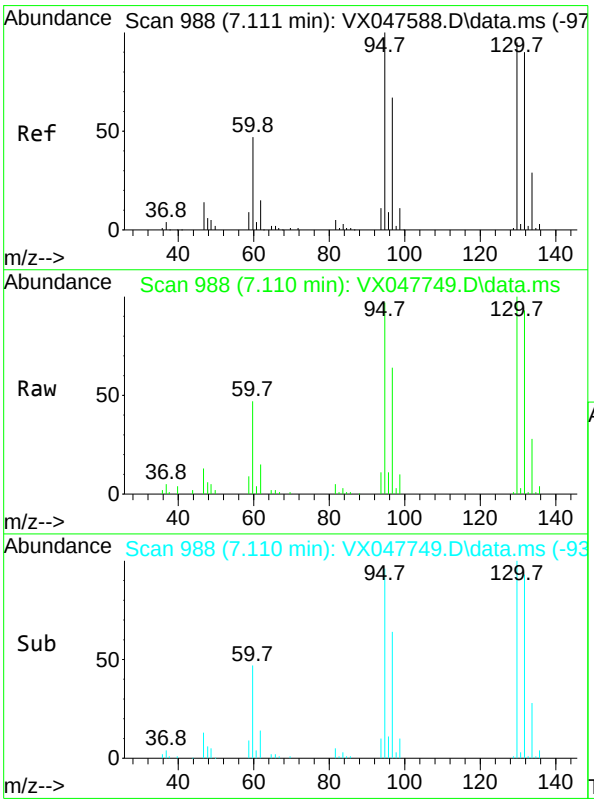
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.2	22.8
87	12.1	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

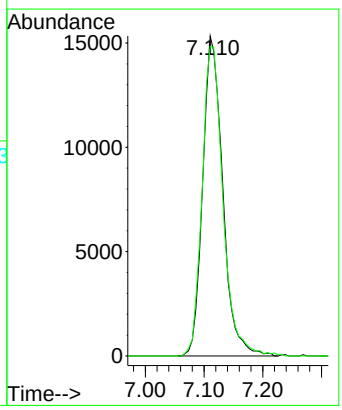
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

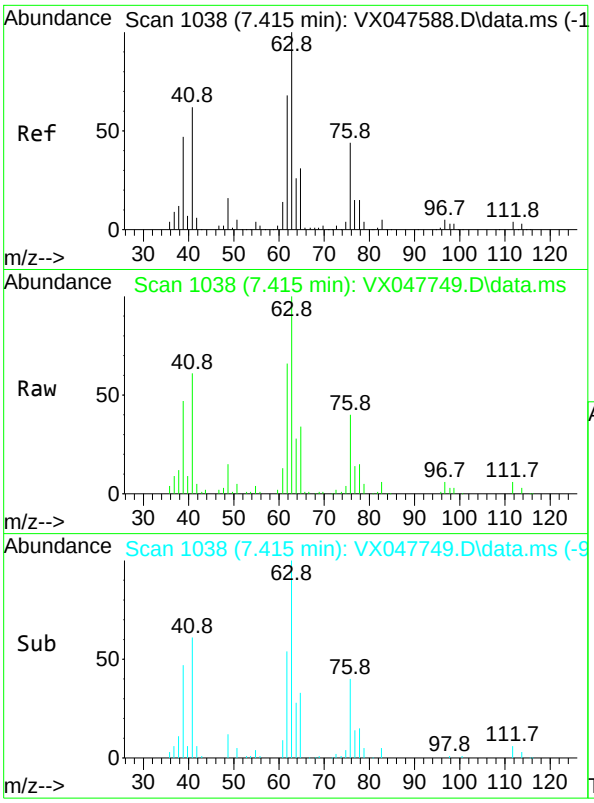


#44
Trichloroethene
Concen: 17.881 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:130 Resp: 36283

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	210.8





#45
1,2-Dichloropropane
Concen: 17.893 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

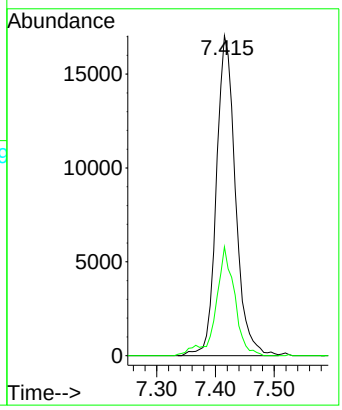
Tgt Ion: 63 Resp: 3845

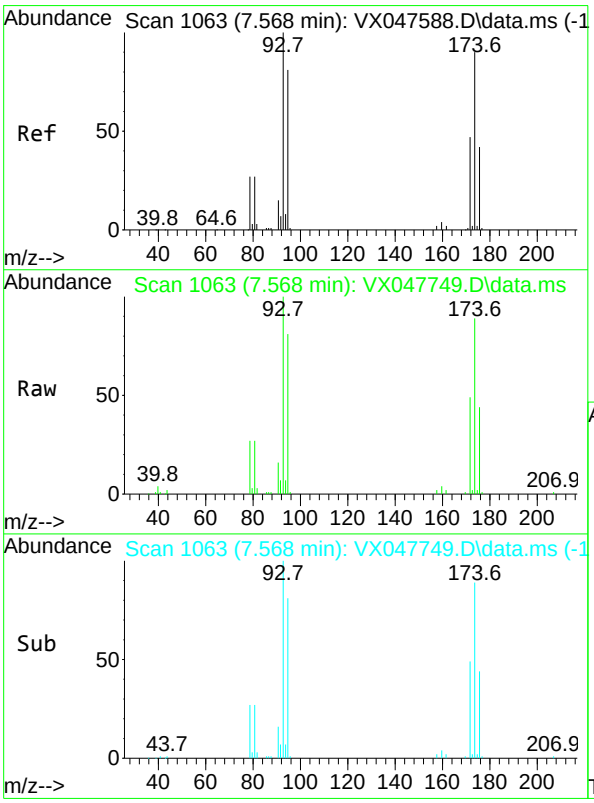
Ion	Ratio	Lower	Upper
63	100		
65	34.0	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

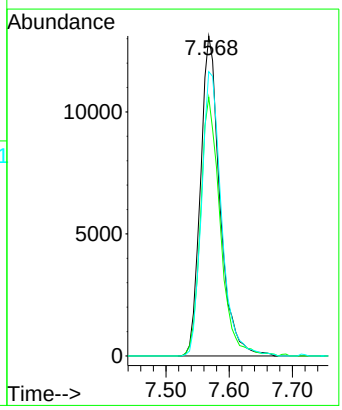


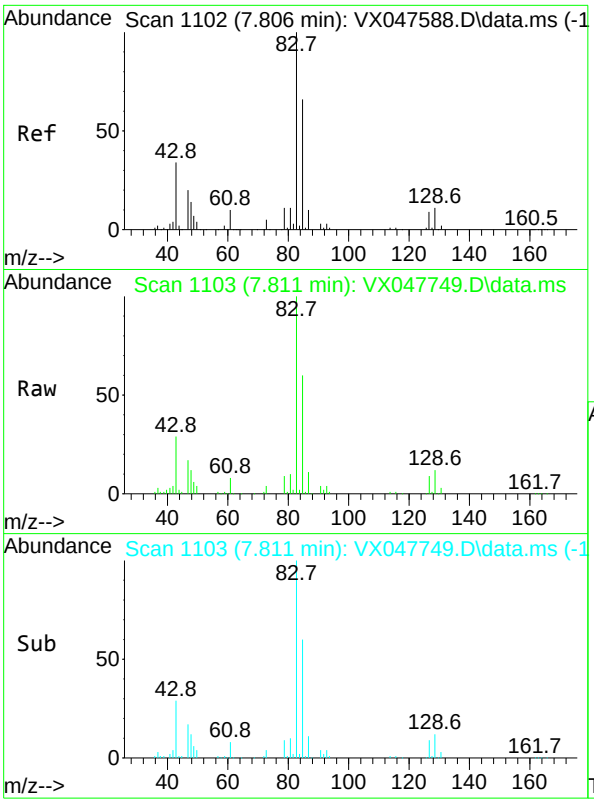


#46
Dibromomethane
Concen: 17.924 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 93 Resp: 28033

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.0	97.6
174	91.4	71.6	107.4

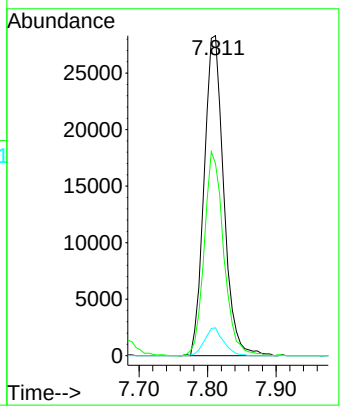




#47
Bromodichloromethane
Concen: 17.468 ug/l
RT: 7.811 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 83 Resp: 5637

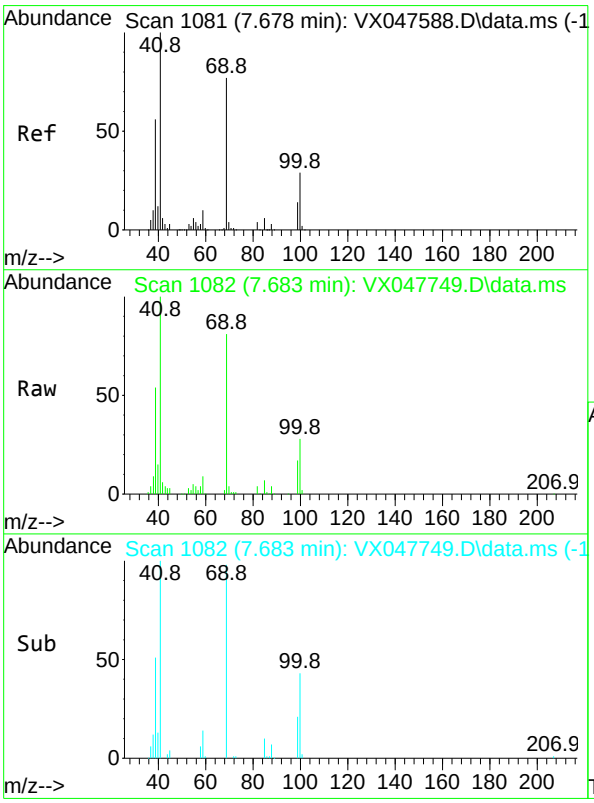
Ion	Ratio	Lower	Upper
83	100		
85	60.0	52.5	78.7
127	8.7	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

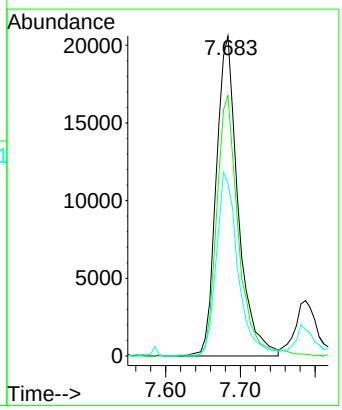
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

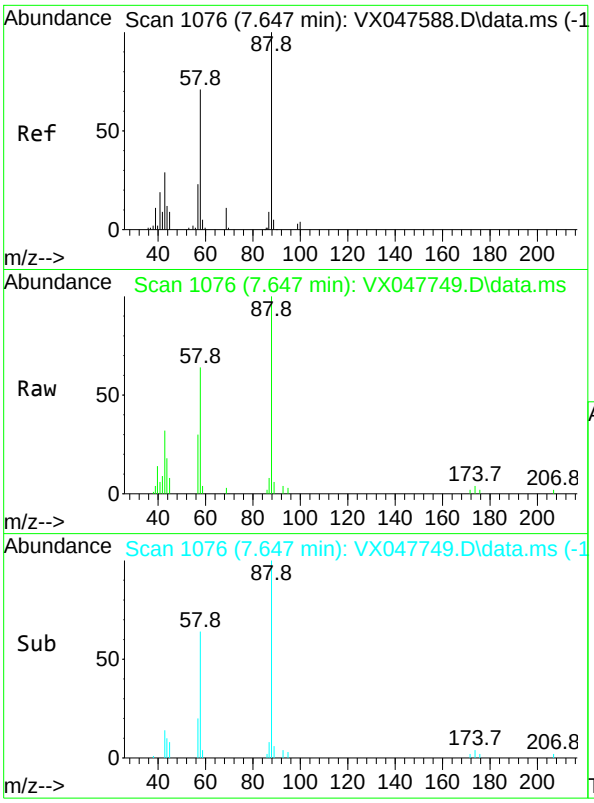


#48
Methyl methacrylate
Concen: 17.332 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 41 Resp: 41895

Ion	Ratio	Lower	Upper
41	100		
69	80.7	61.4	92.2
39	57.0	45.8	68.6

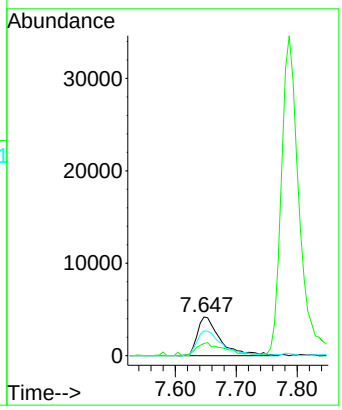




#49
1,4-Dioxane
Concen: 446.778 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 88 Resp: 1091

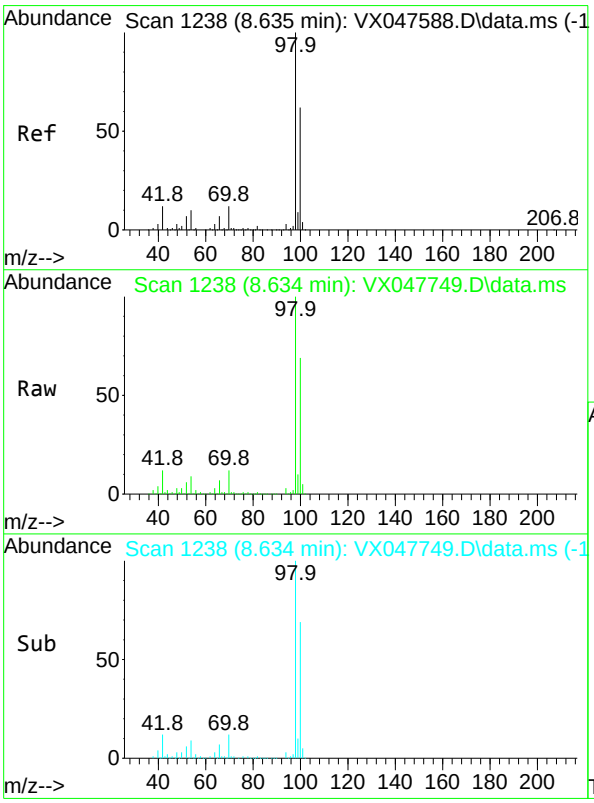
Ion	Ratio	Lower	Upper
88	100		
43	37.5	30.2	45.2
58	69.7	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

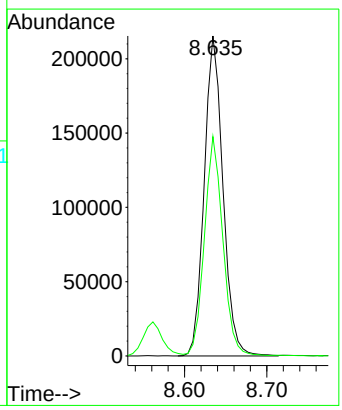
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

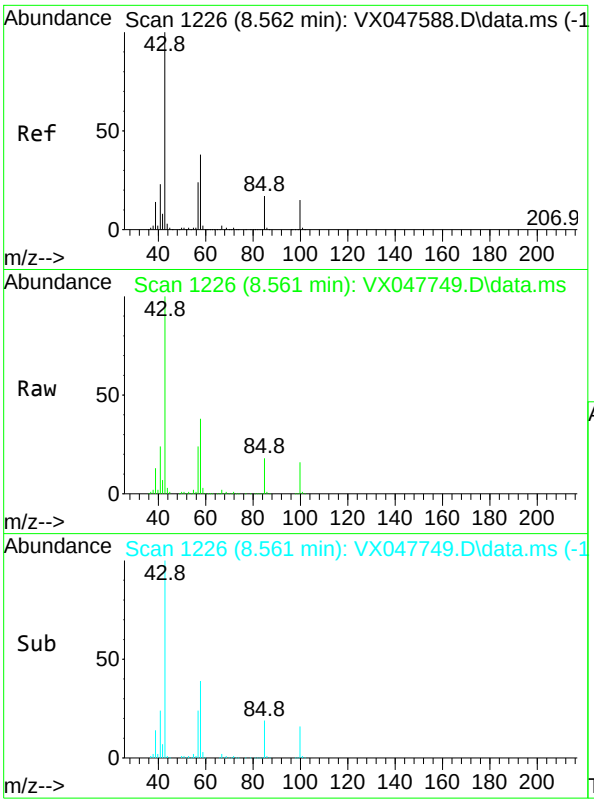


#50
Toluene-d8
Concen: 52.151 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 98 Resp: 341263

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4

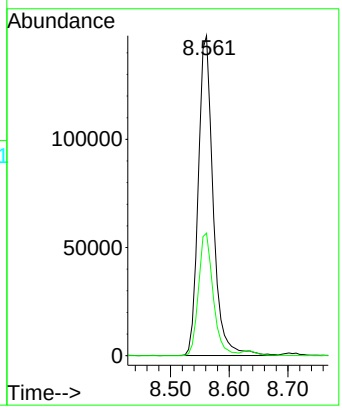




#51
4-Methyl-2-Pentanone
Concen: 96.387 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 25933

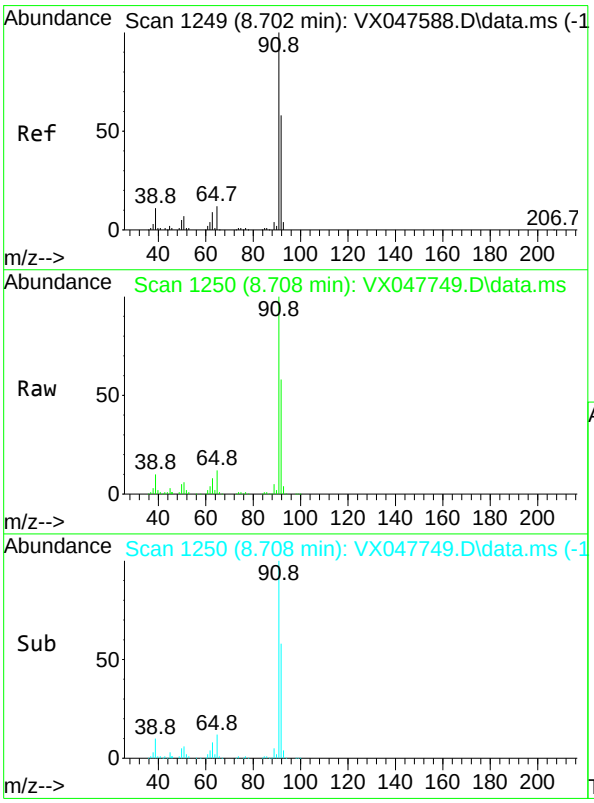
Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

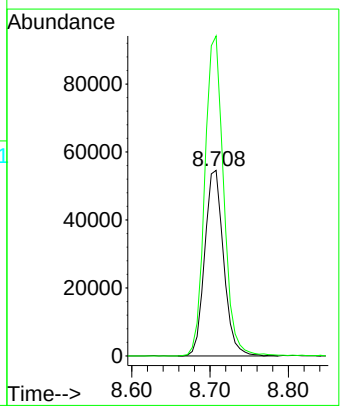
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

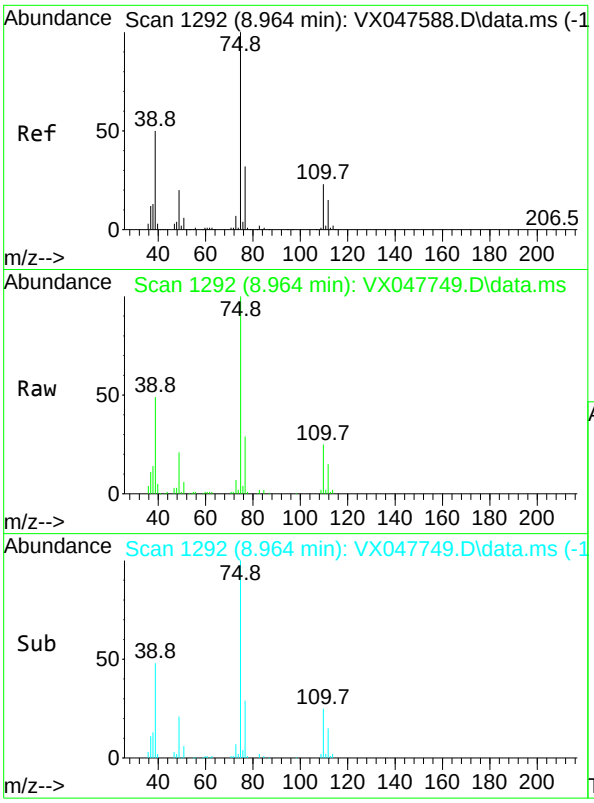


#52
Toluene
Concen: 17.679 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 92 Resp: 91422

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.1	205.7

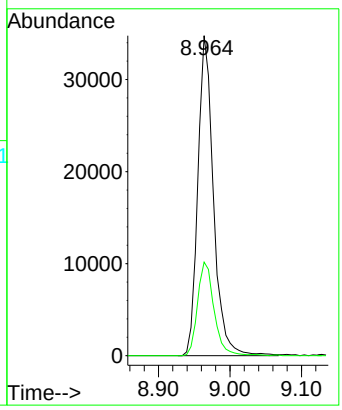




#53
t-1,3-Dichloropropene
Concen: 16.036 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 5278

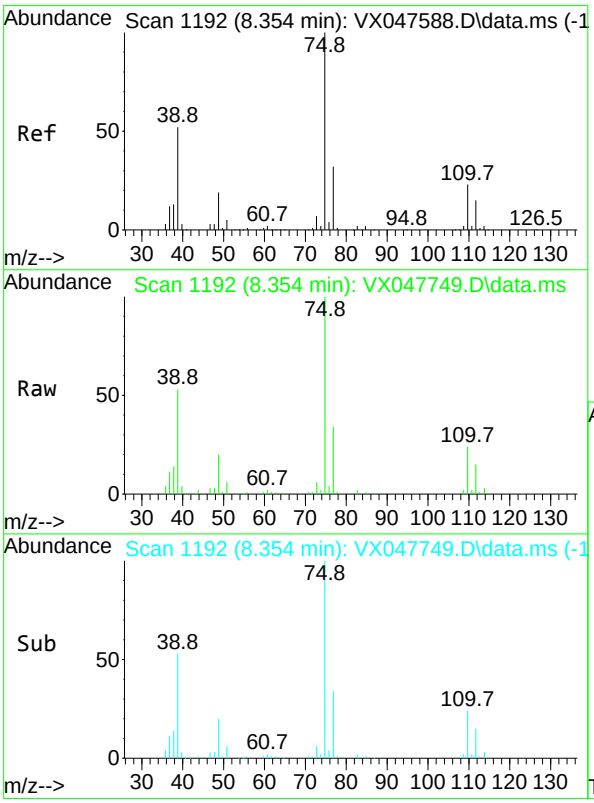
Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

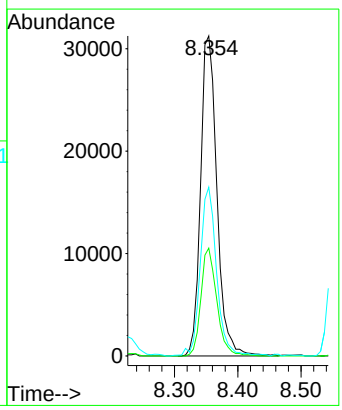
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

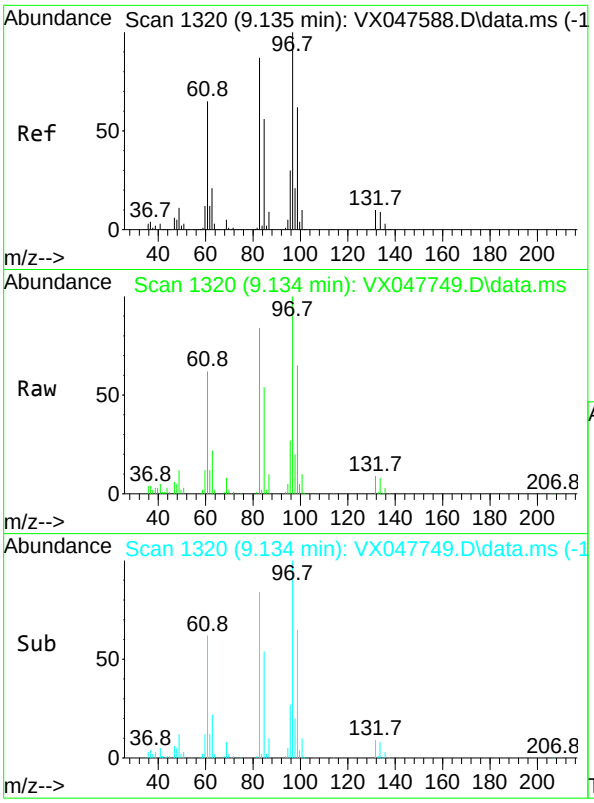


#54
cis-1,3-Dichloropropene
Concen: 16.020 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 56367

Ion	Ratio	Lower	Upper
75	100		
77	33.7	25.8	38.6
39	50.7	41.4	62.2

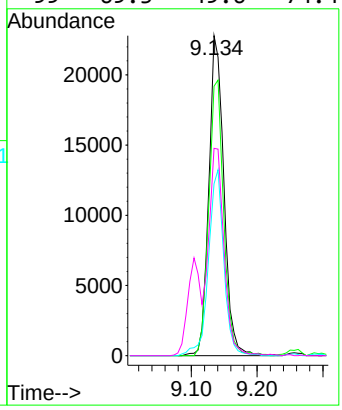




#55
1,1,2-Trichloroethane
Concen: 18.240 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 97 Resp: 3637

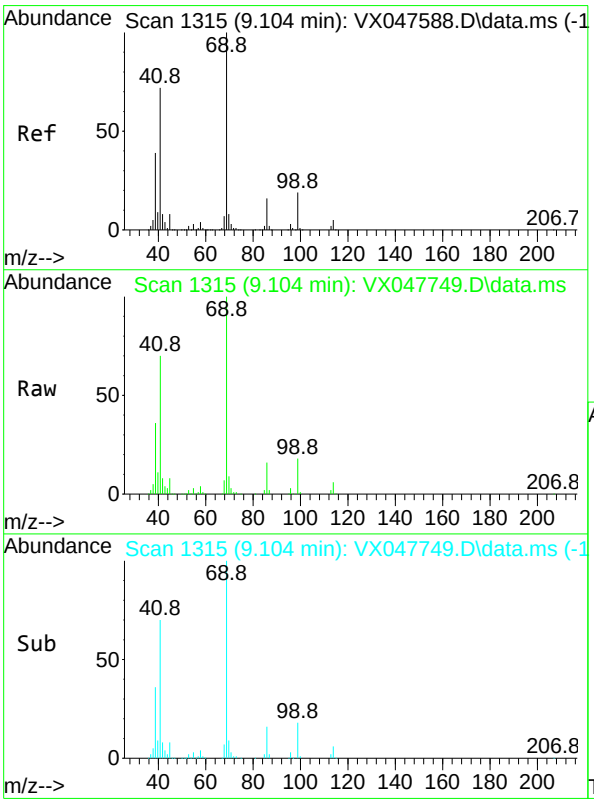
Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.7	45.0	67.6
99	69.3	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

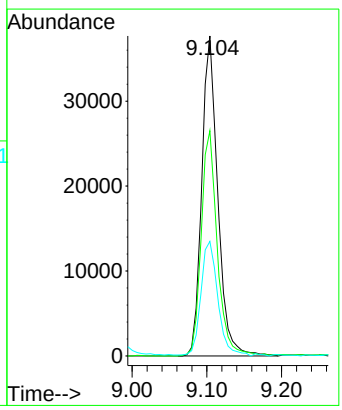
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

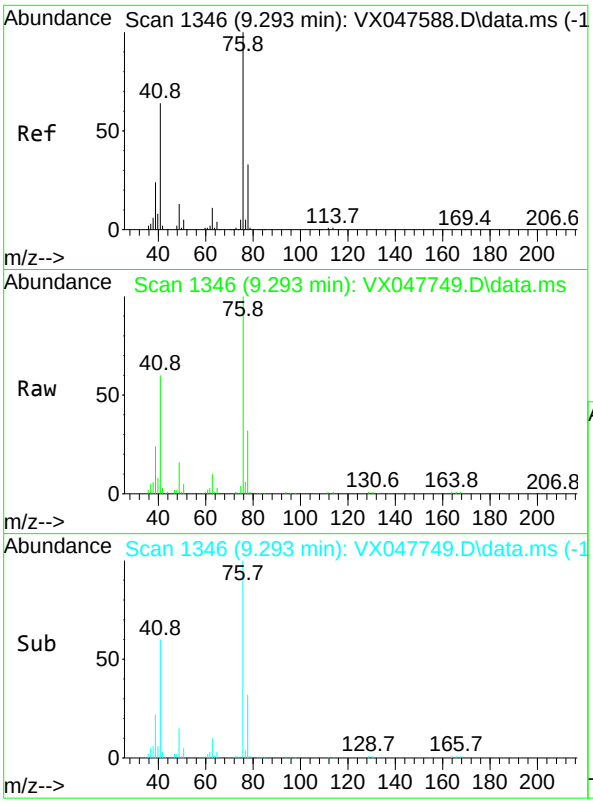


#56
Ethyl methacrylate
Concen: 17.924 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 69 Resp: 56127

Ion	Ratio	Lower	Upper
69	100		
41	70.7	58.6	87.8
39	38.0	31.5	47.3

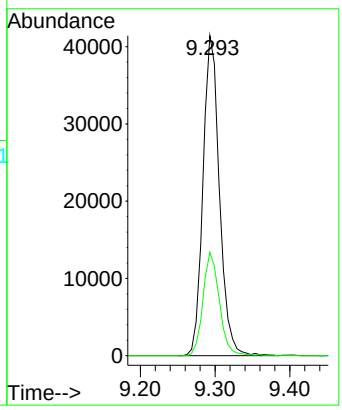




#57
1,3-Dichloropropane
Concen: 18.497 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 76 Resp: 6335

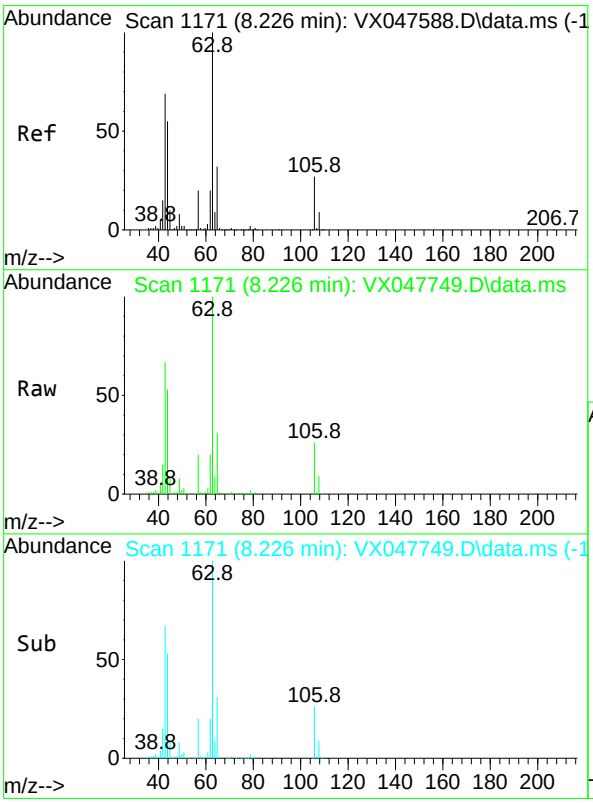
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

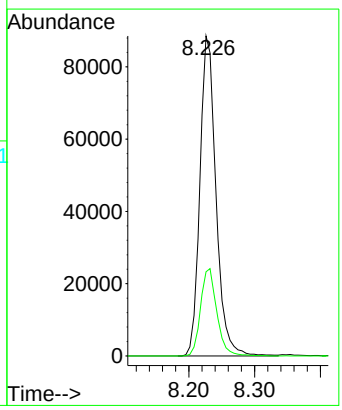
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

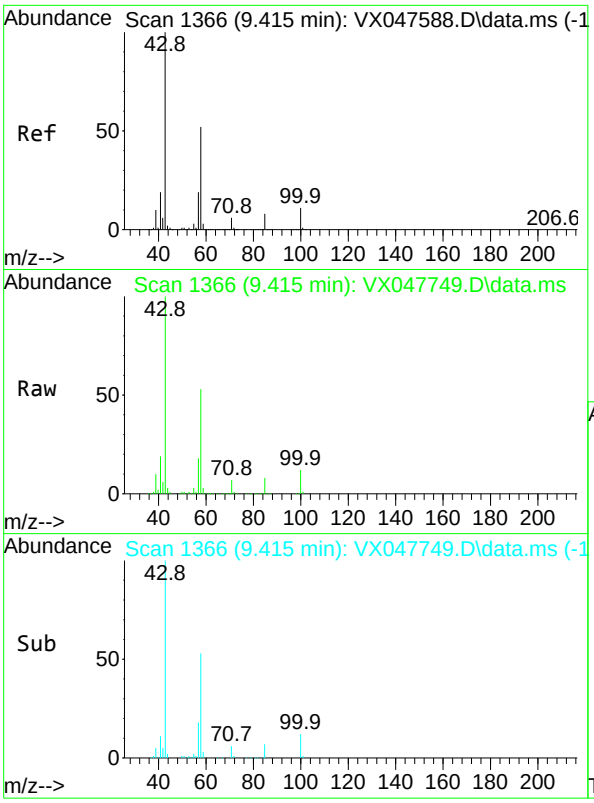


#58
2-Chloroethyl Vinyl ether
Concen: 107.686 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 63 Resp: 150794

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

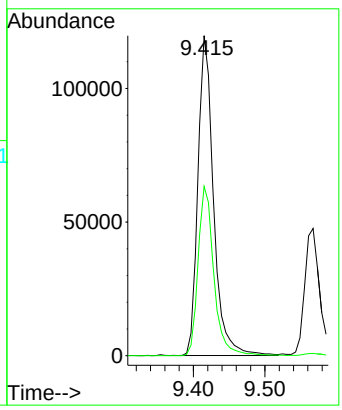




#59
2-Hexanone
Concen: 93.973 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 18159

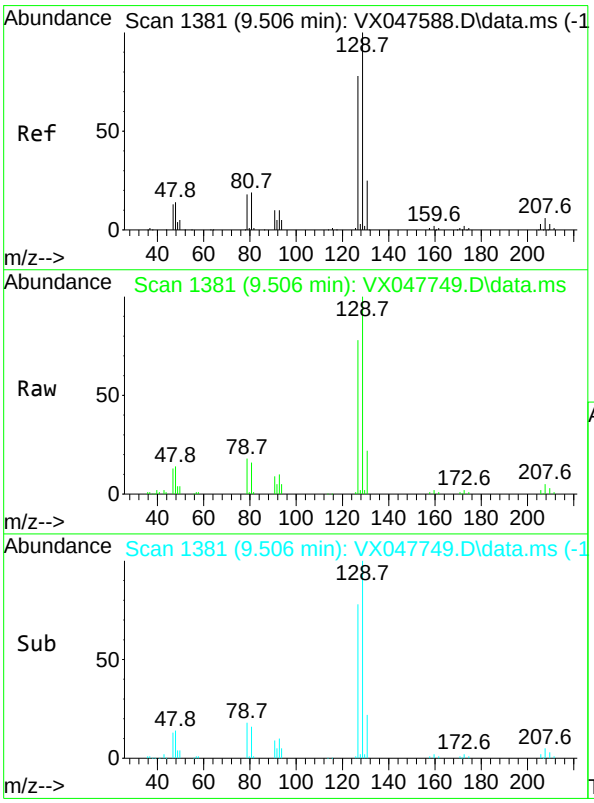
Ion	Ratio	Lower	Upper
43	100		
58	53.5	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

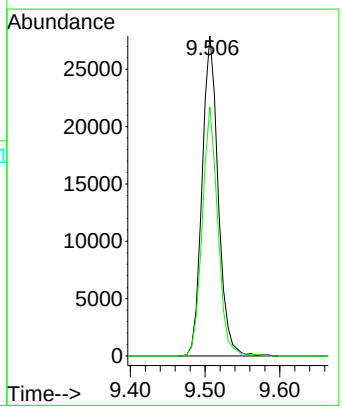
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

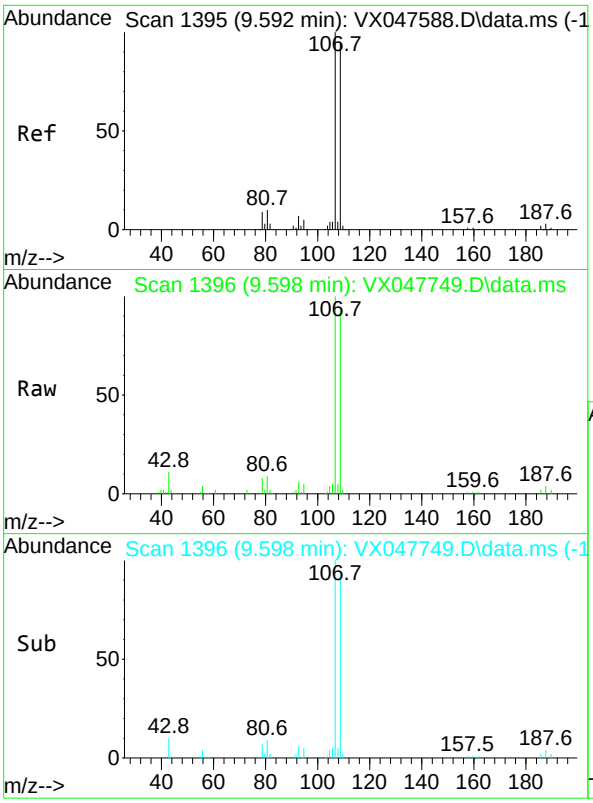


#60
Dibromochloromethane
Concen: 18.125 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:129 Resp: 41641

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.4	115.2

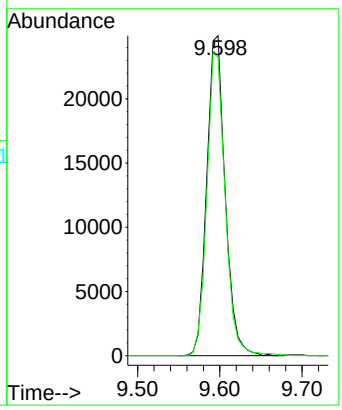




#61
1,2-Dibromoethane
Concen: 19.067 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:107 Resp: 3872

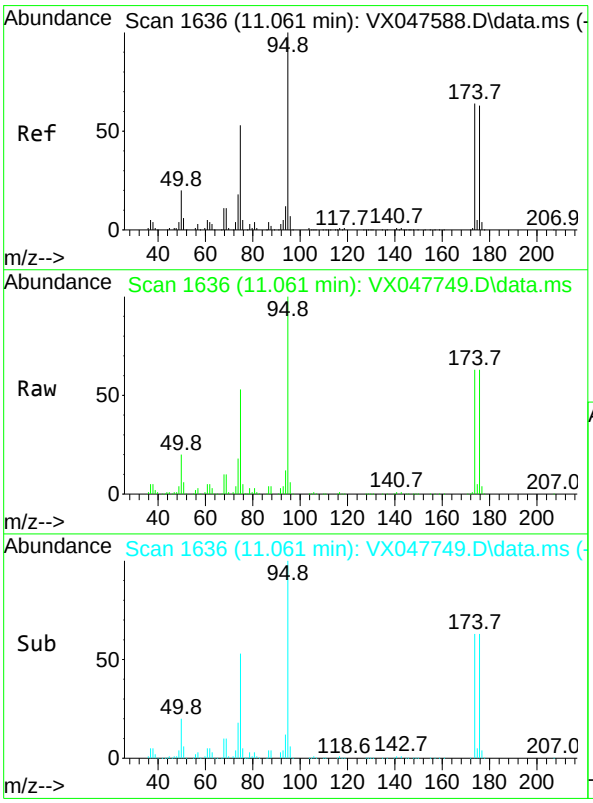
Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

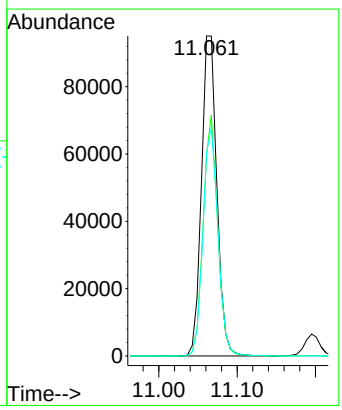
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

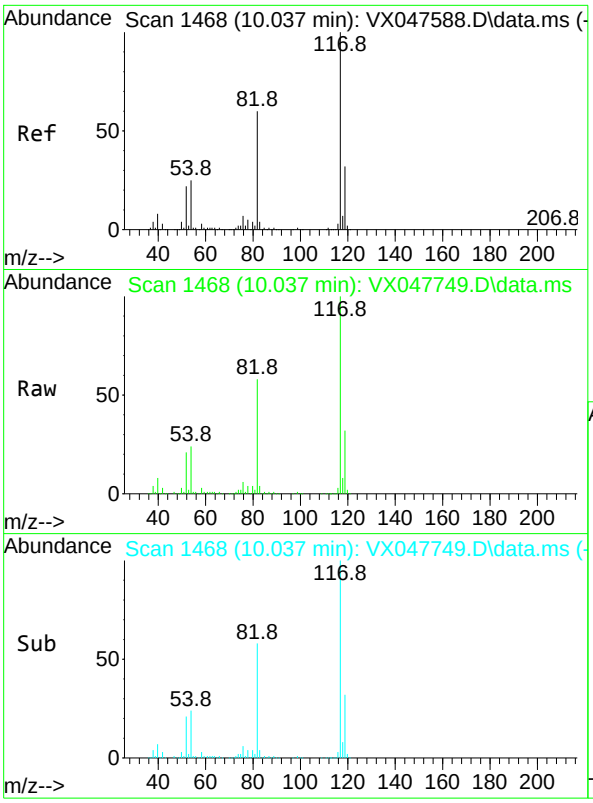


#62
4-Bromofluorobenzene
Concen: 52.114 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 95 Resp: 129425

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.6
176	69.8	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

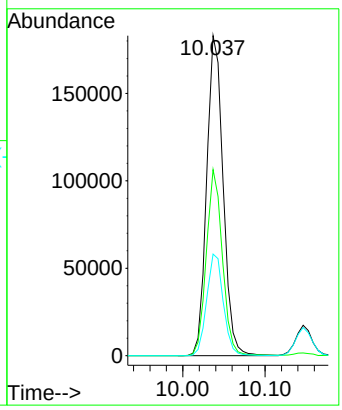
Tgt Ion:117 Resp: 25429

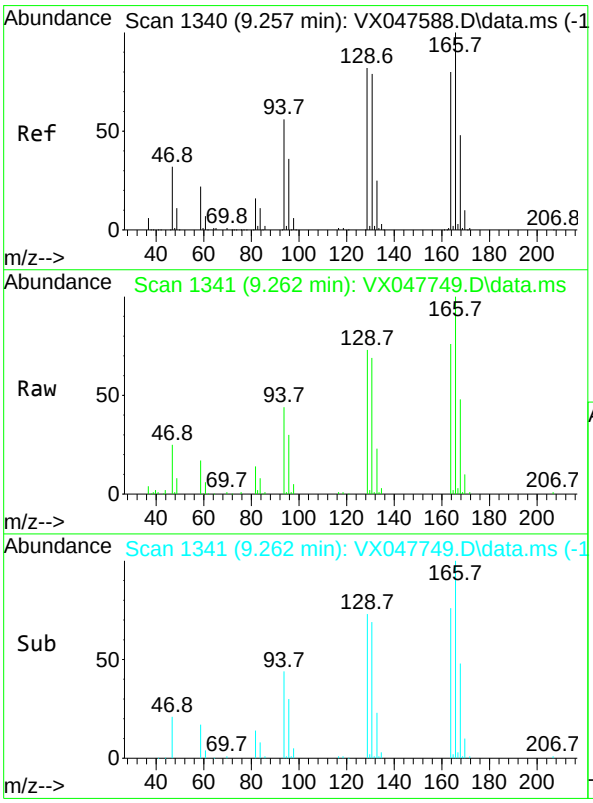
Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	31.7	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

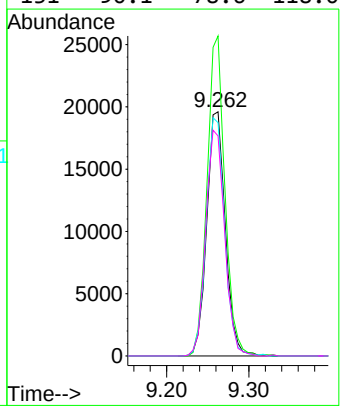


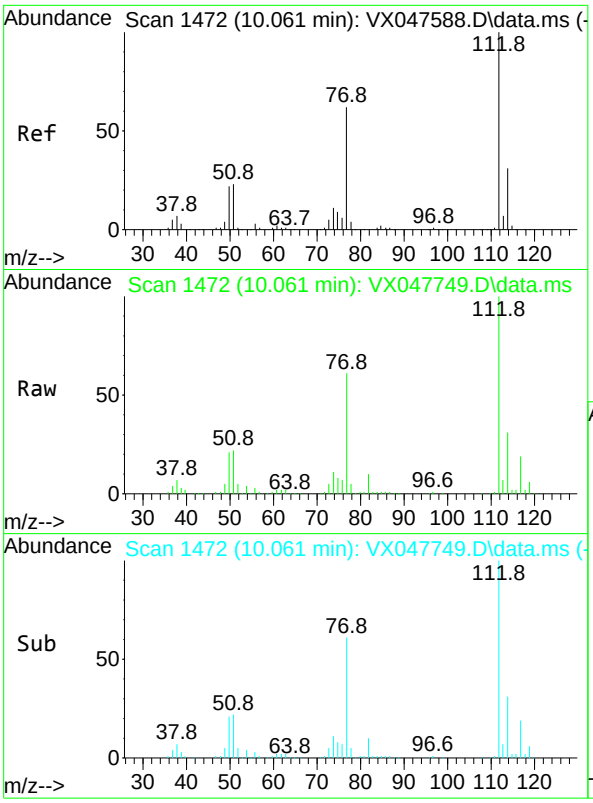


#64
Tetrachloroethene
Concen: 18.494 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:164 Resp: 30658

Ion	Ratio	Lower	Upper
164	100		
166	131.1	100.2	150.2
129	95.6	81.8	122.6
131	90.1	78.6	118.0

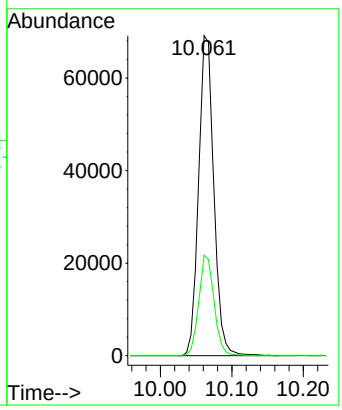




#65
Chlorobenzene
Concen: 17.689 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:112 Resp: 10219

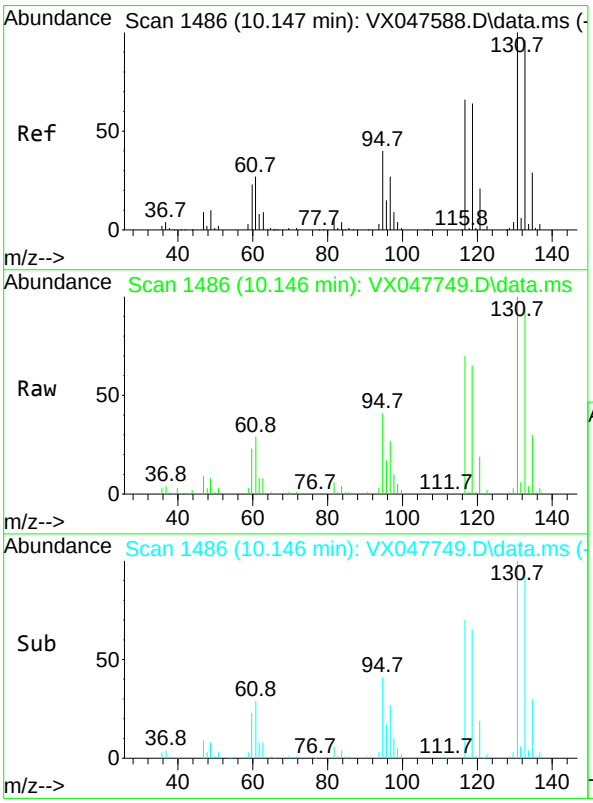
Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

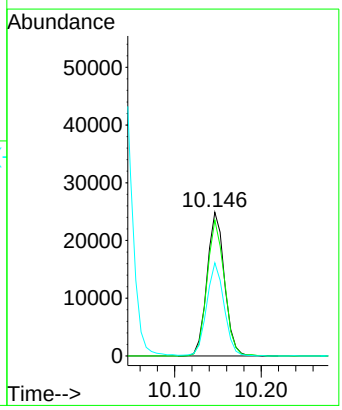
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

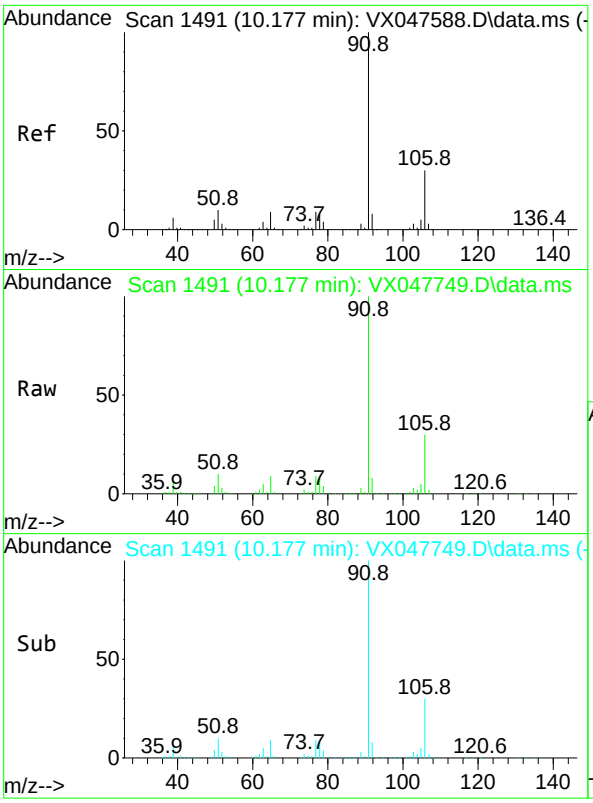


#66
1,1,1,2-Tetrachloroethane
Concen: 17.500 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:131 Resp: 34887

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	64.9	32.0	96.0





#67
Ethyl Benzene
Concen: 17.180 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

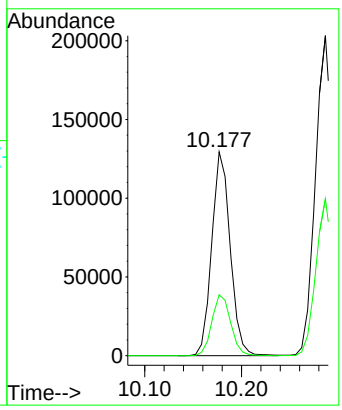
Tgt Ion: 91 Resp: 17125

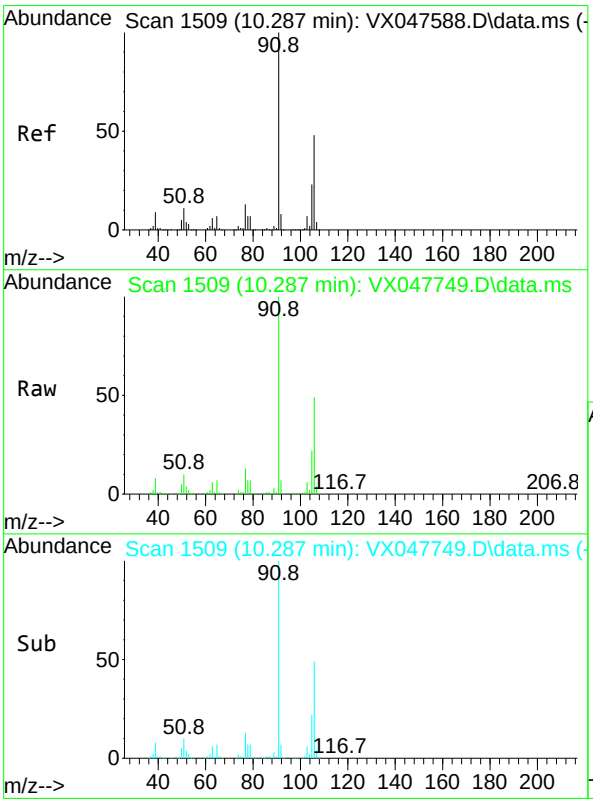
Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

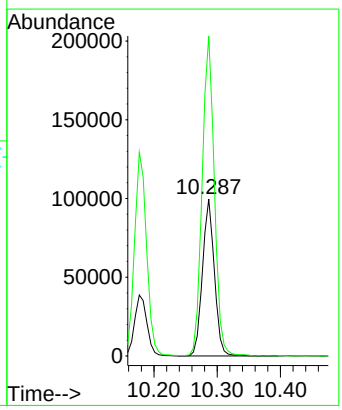


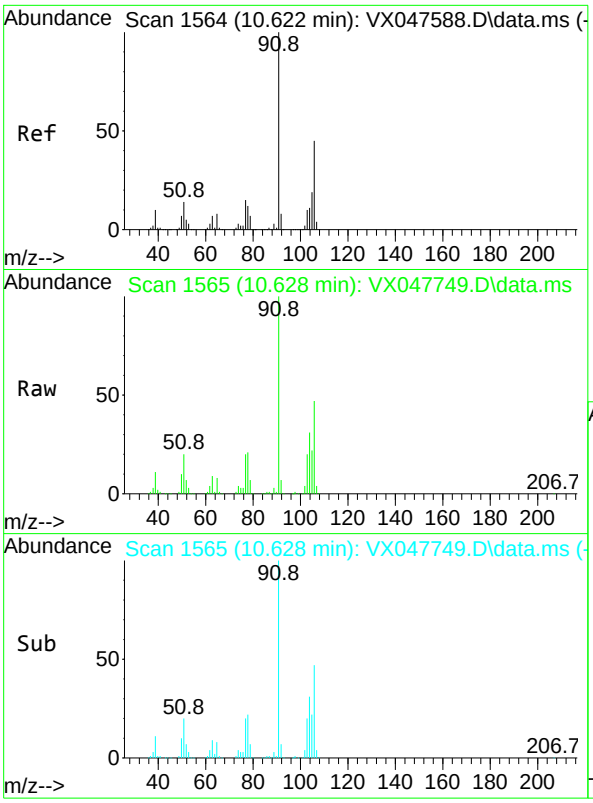


#68
m/p-Xylenes
Concen: 35.307 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:106 Resp: 130995

Ion	Ratio	Lower	Upper
106	100		
91	208.4	167.8	251.8

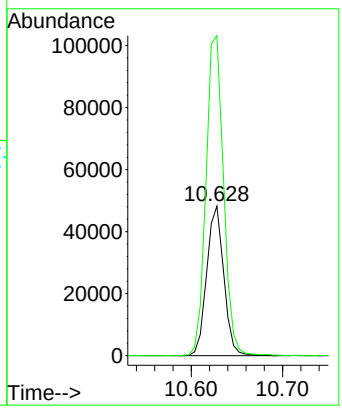




#69
o-Xylene
Concen: 17.473 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:106 Resp: 6270

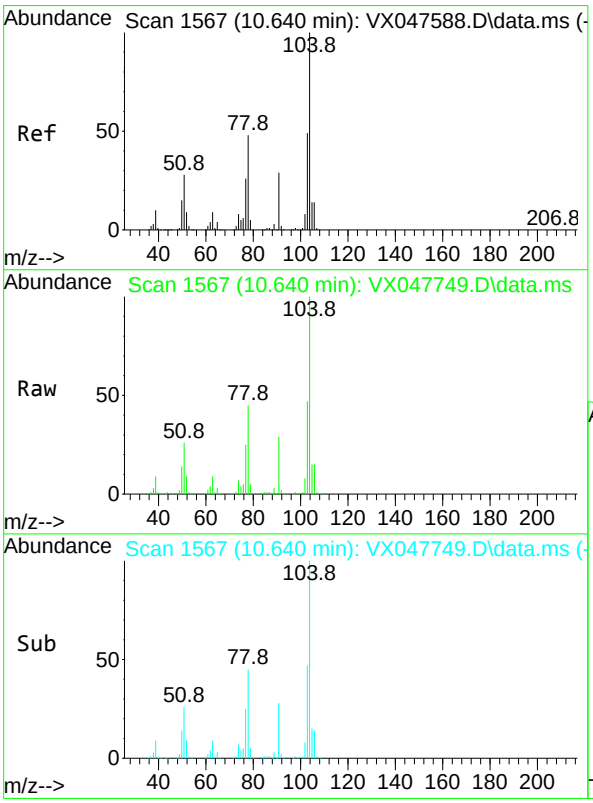
Ion	Ratio	Lower	Upper
106	100		
91	220.5	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

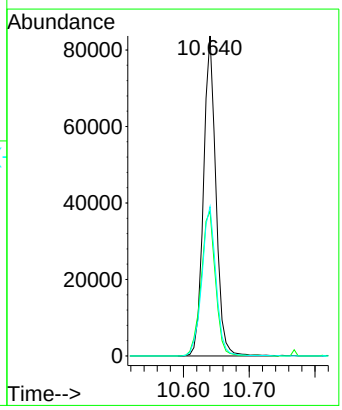
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

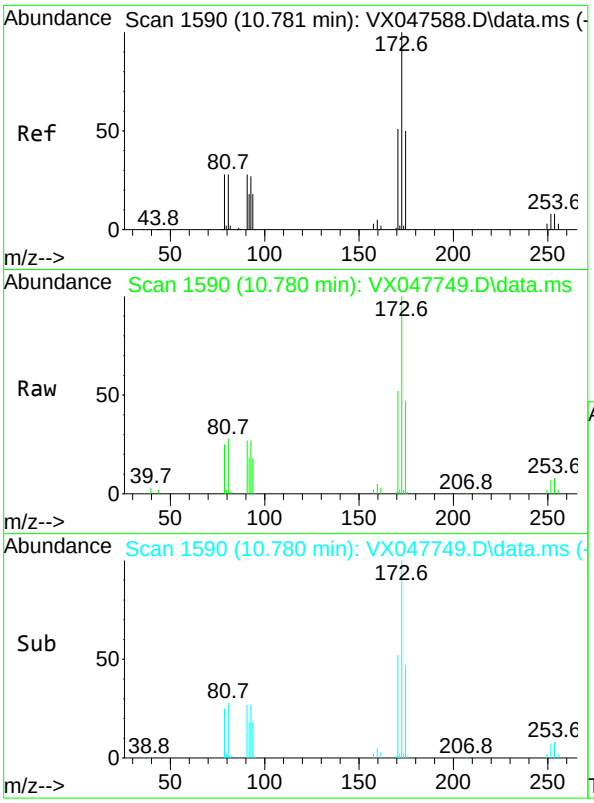


#70
Styrene
Concen: 17.497 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:104 Resp: 110018

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	52.9	43.1	64.7

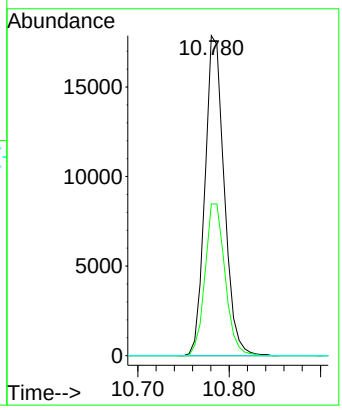




#71
Bromoform
Concen: 17.505 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:173 Resp: 2605

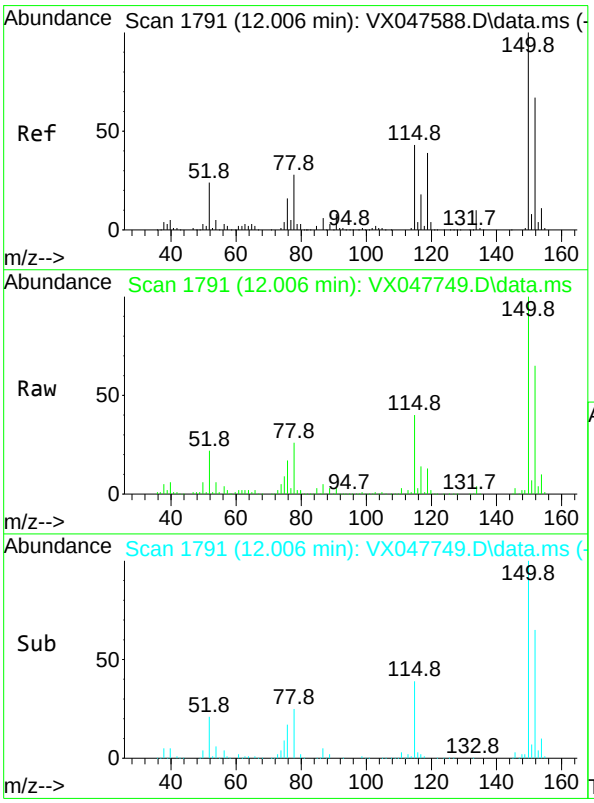
Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

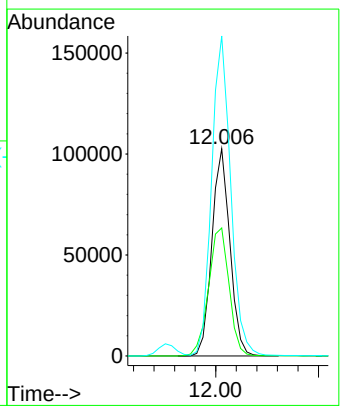
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

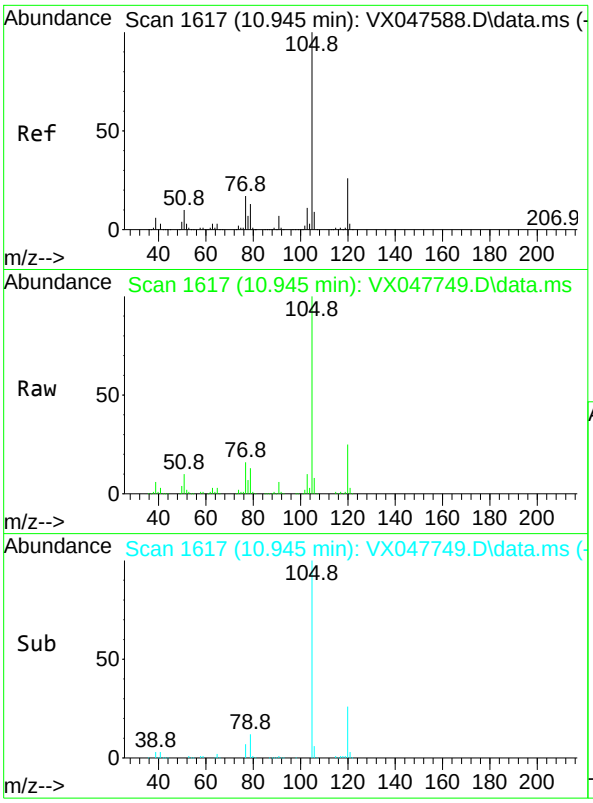


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:152 Resp: 124629

Ion	Ratio	Lower	Upper
152	100		
115	70.5	44.9	134.5
150	163.6	0.0	352.0

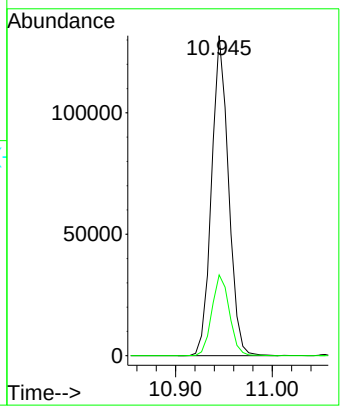




#73
Isopropylbenzene
Concen: 16.911 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:105 Resp: 16023

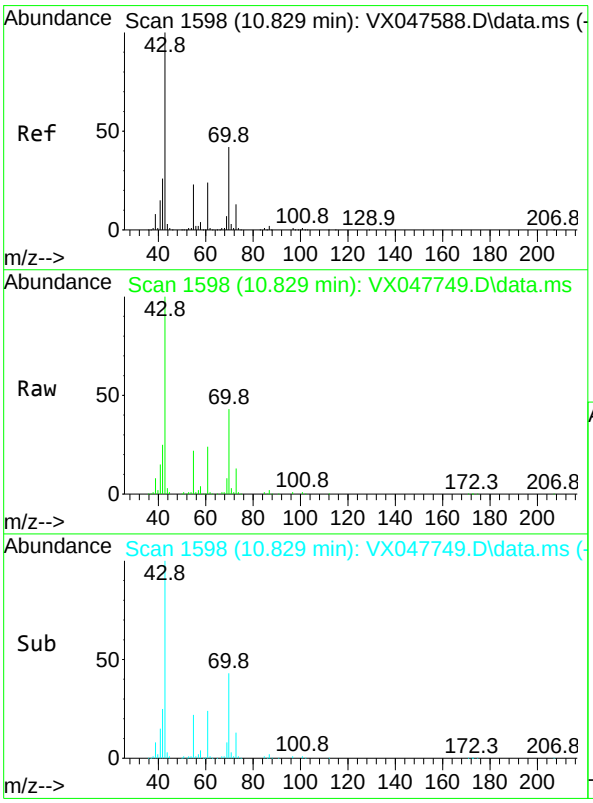
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

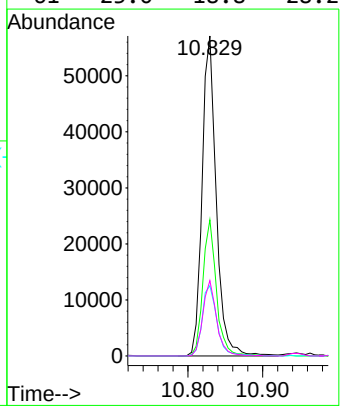
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

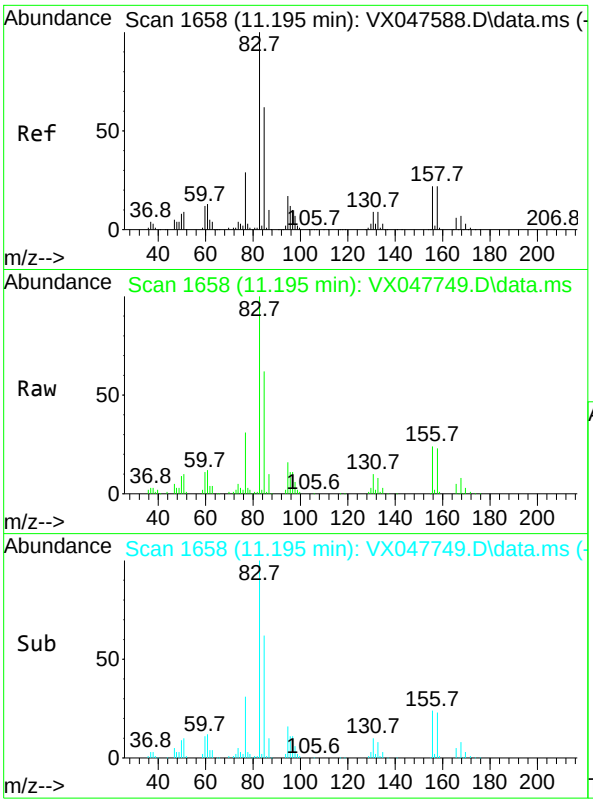


#74
N-amyl acetate
Concen: 17.343 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 74935

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.0	18.9	28.3
61	23.0	18.8	28.2

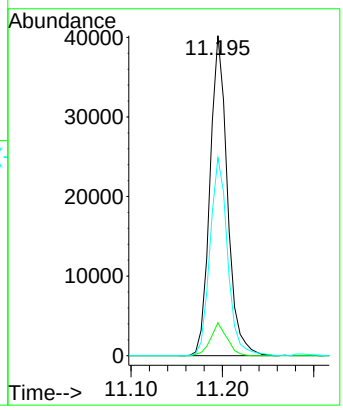




#75
1,1,2,2-Tetrachloroethane
Concen: 18.541 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 83 Resp: 5315

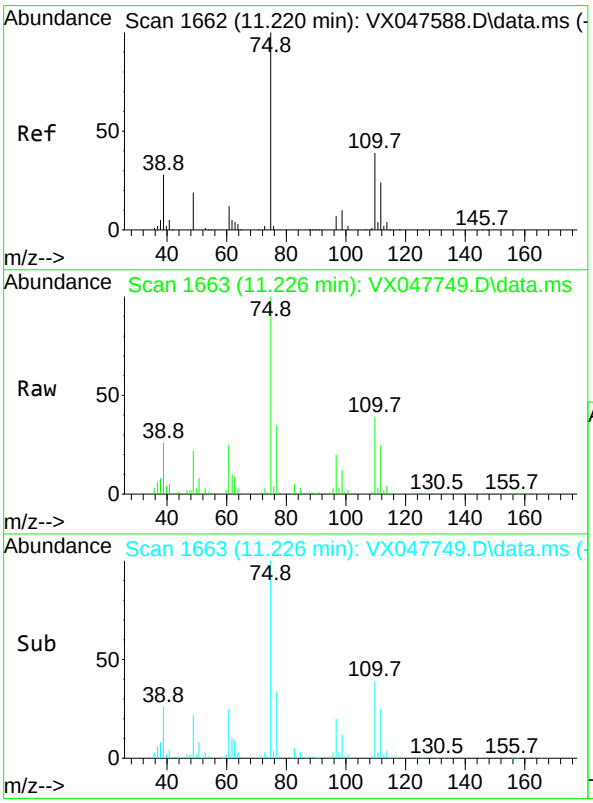
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	62.5	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

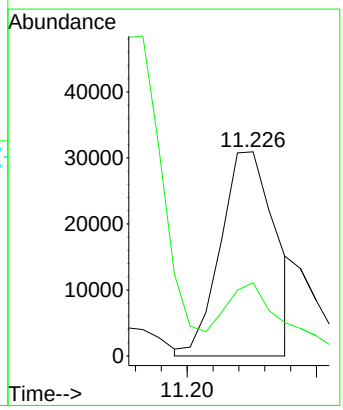
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

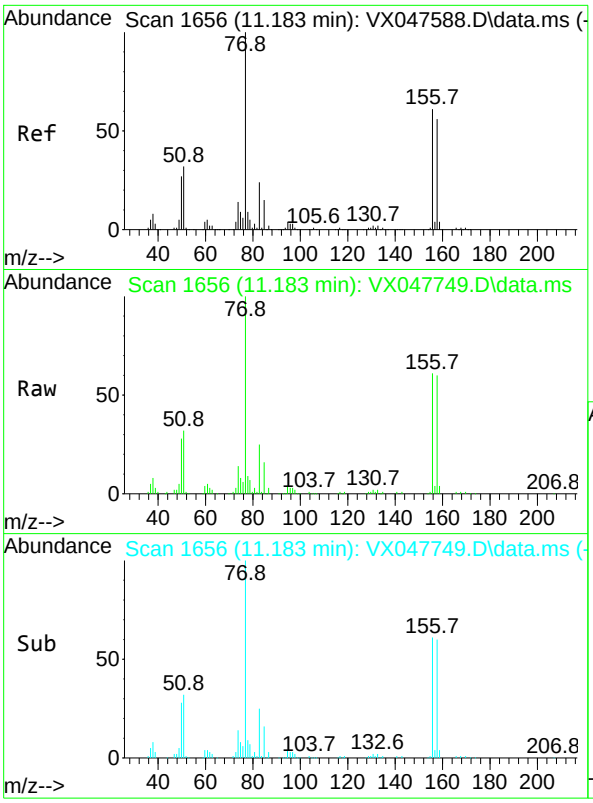


#76
1,2,3-Trichloropropane
Concen: 18.035 ug/l m
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 45508

Ion	Ratio	Lower	Upper
75	100		
77	39.1	18.8	56.4

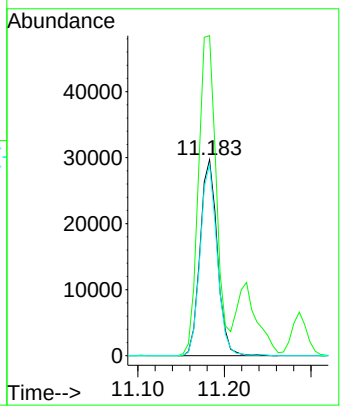




#77
Bromobenzene
Concen: 17.565 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:156 Resp: 4099

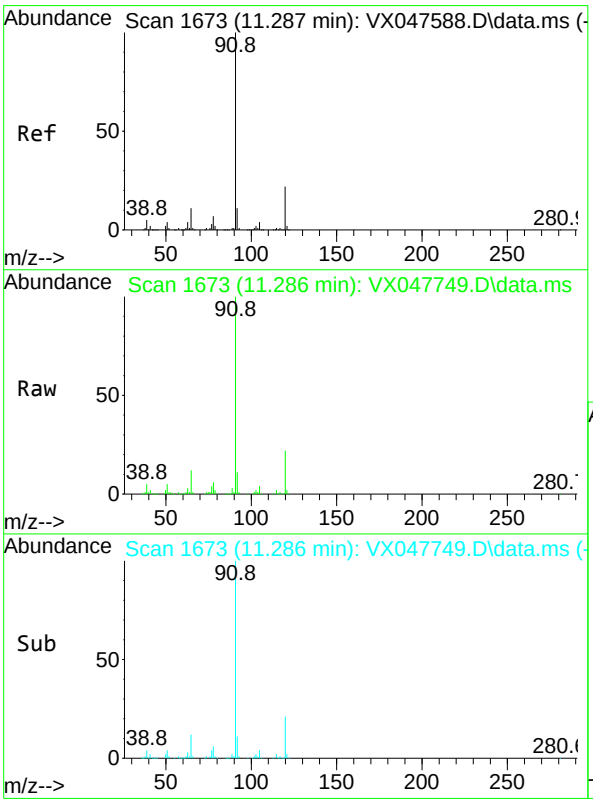
Ion	Ratio	Lower	Upper
156	100		
77	170.3	89.7	269.1
158	95.6	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

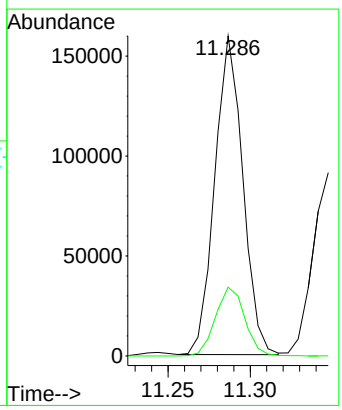
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

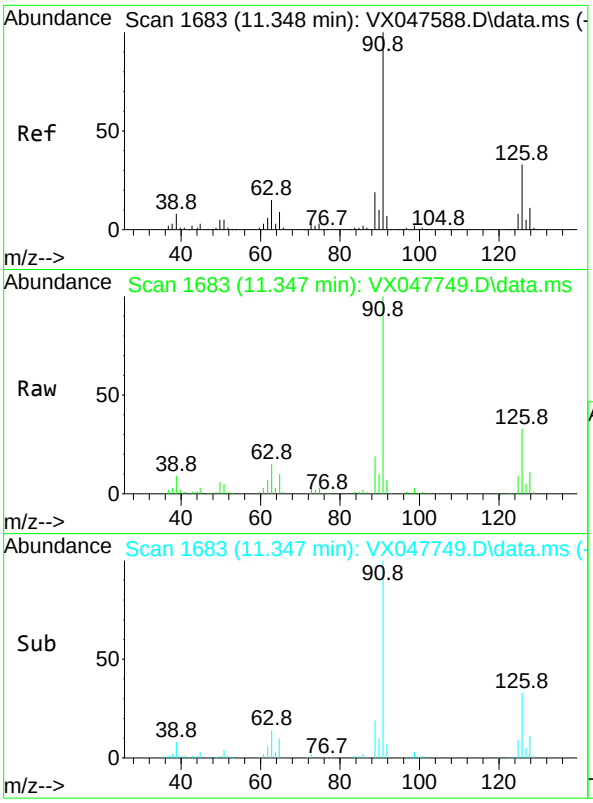


#78
n-propylbenzene
Concen: 16.859 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 91 Resp: 188833

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.1

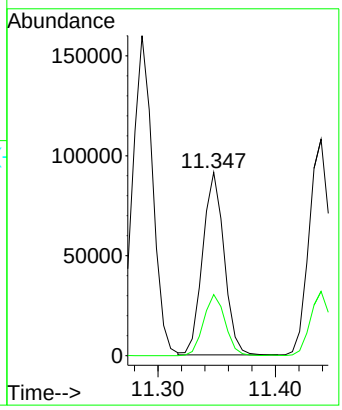




#79
2-Chlorotoluene
Concen: 16.904 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 91 Resp: 11596

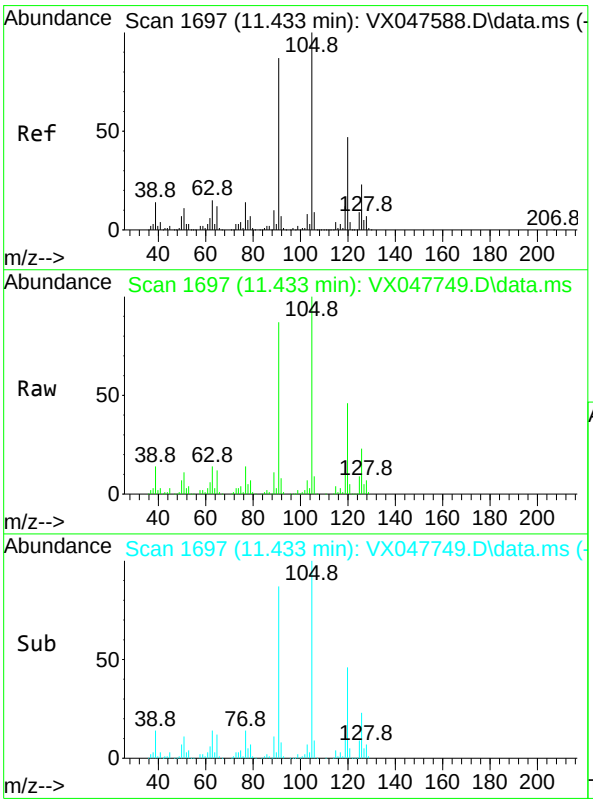
Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

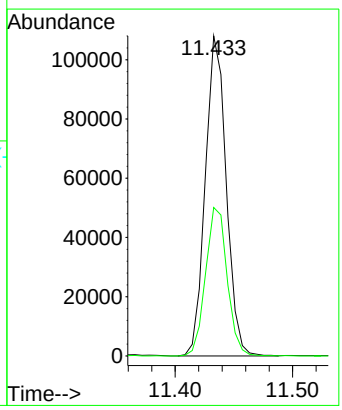
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

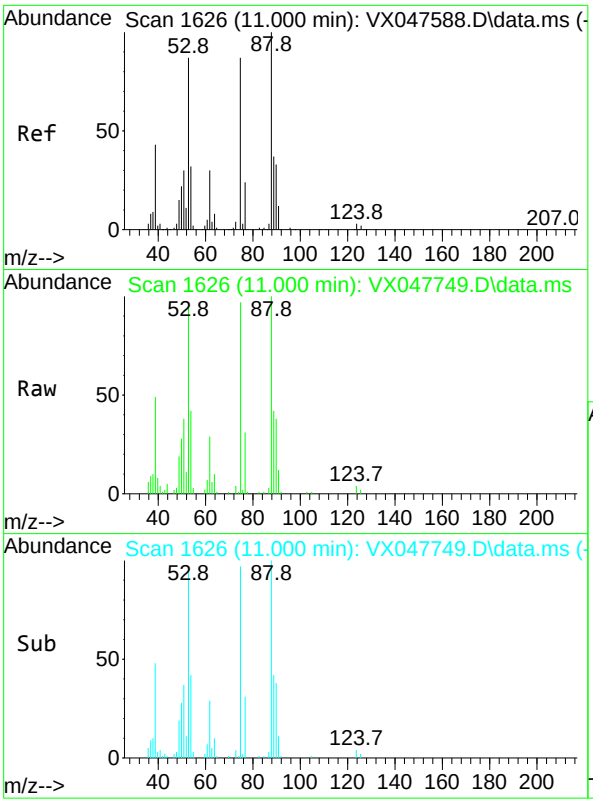


#80
1,3,5-Trimethylbenzene
Concen: 17.201 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:105 Resp: 133906

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.6	70.8

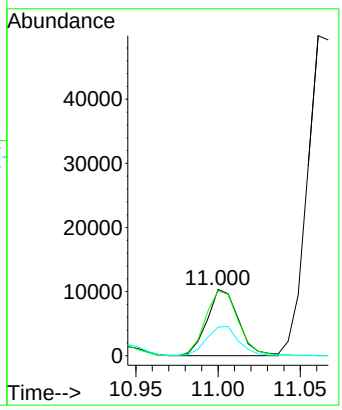




#81
trans-1,4-Dichloro-2-butene
Concen: 13.838 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 1369

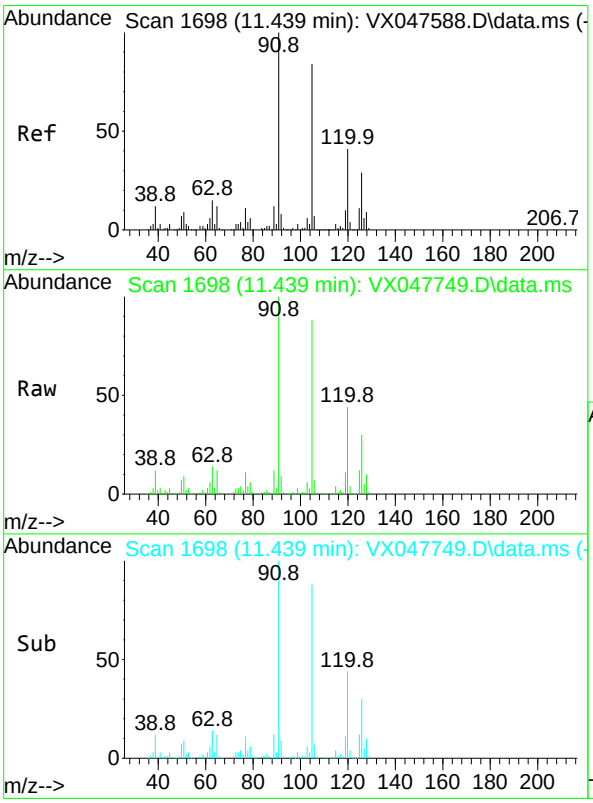
Ion	Ratio	Lower	Upper
75	100		
53	103.1	83.4	125.2
89	45.8	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

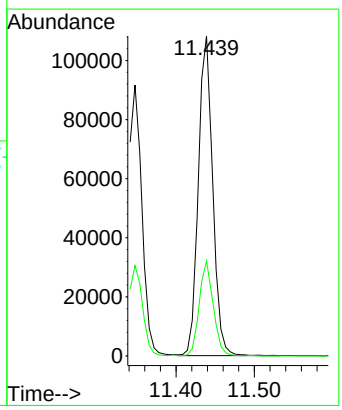
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

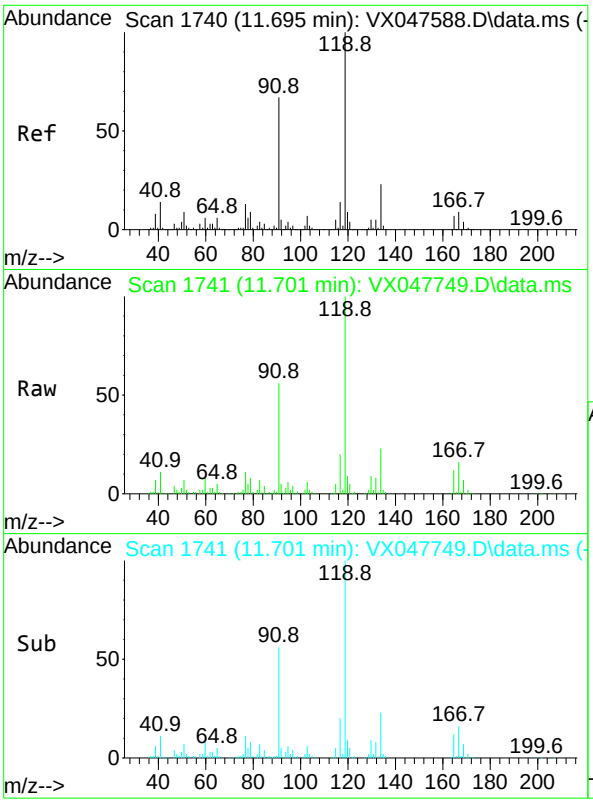


#82
4-Chlorotoluene
Concen: 17.045 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 91 Resp: 138107

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6

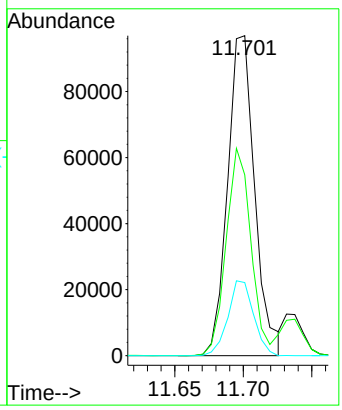




#83
tert-Butylbenzene
Concen: 16.789 ug/l
RT: 11.701 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:119 Resp: 13378

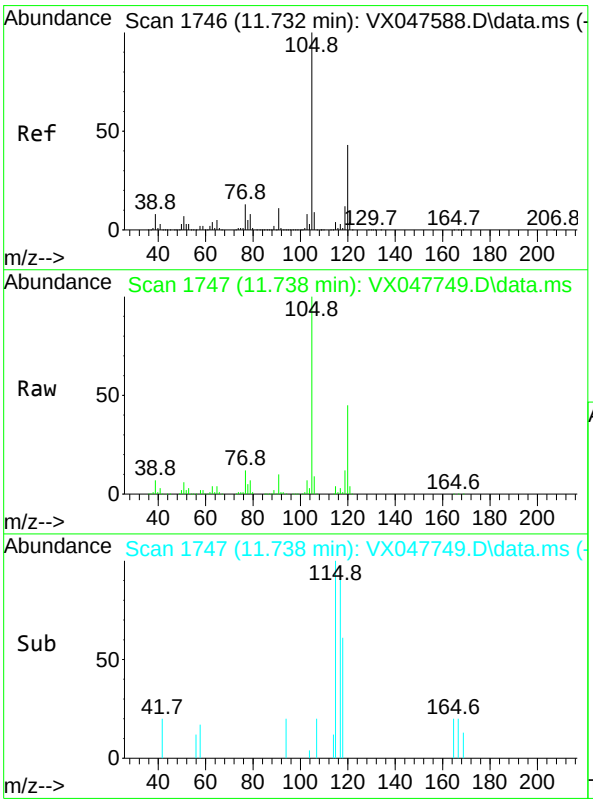
Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.2	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

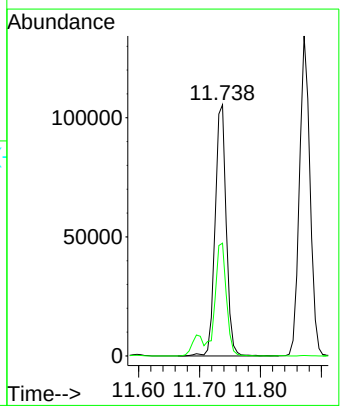
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

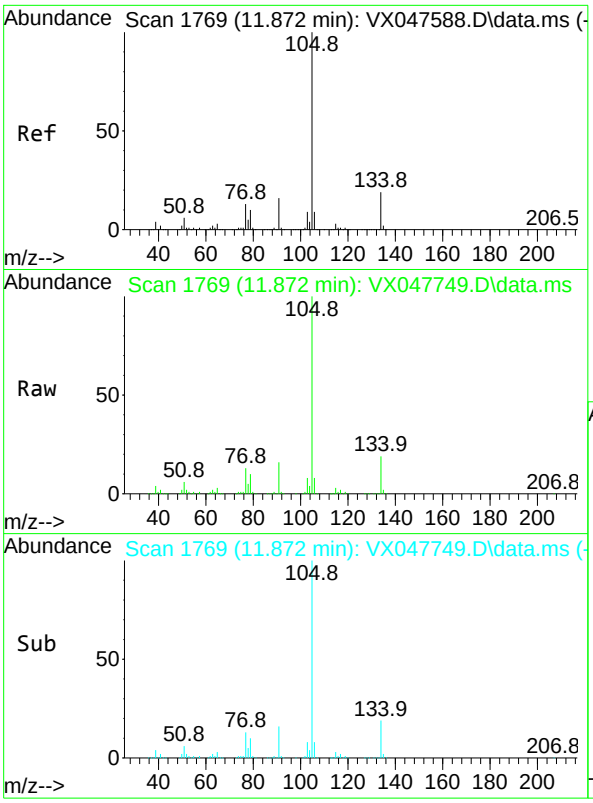


#84
1,2,4-Trimethylbenzene
Concen: 16.931 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:105 Resp: 133626

Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.1	66.1

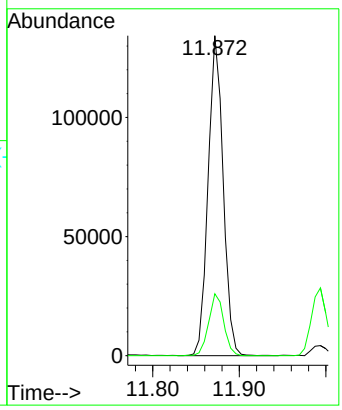




#85
sec-Butylbenzene
Concen: 17.119 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:105 Resp: 16204

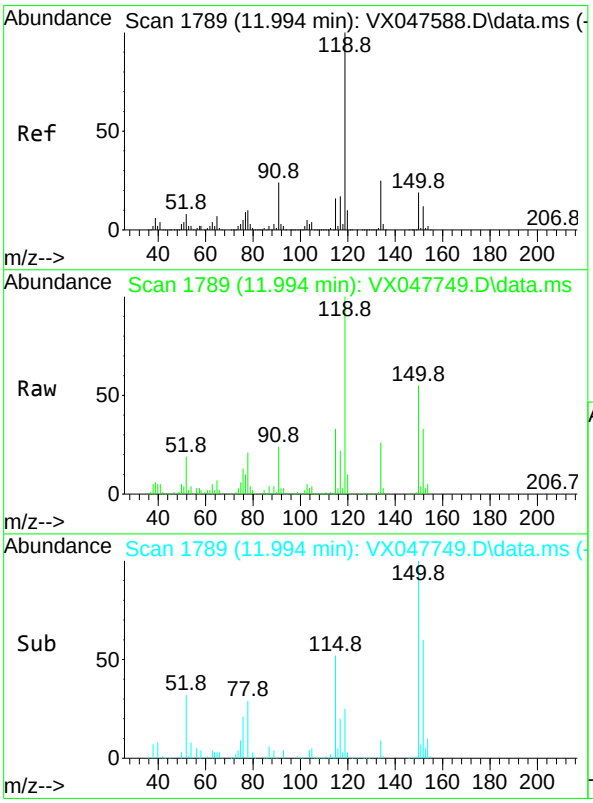
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

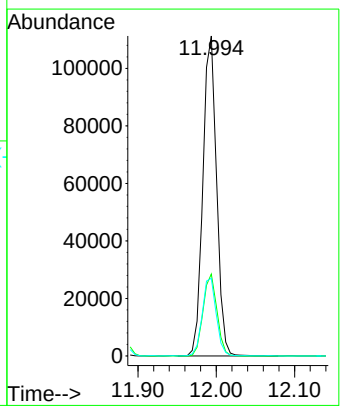
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

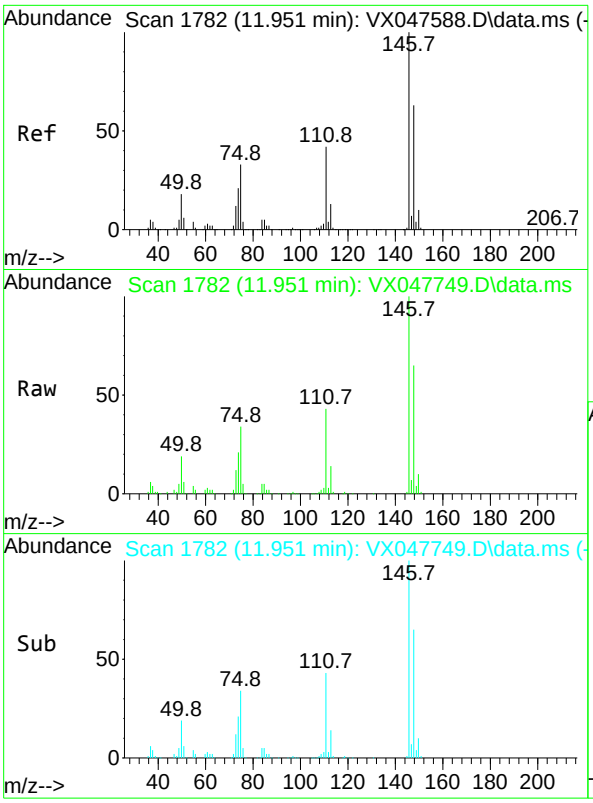


#86
p-Isopropyltoluene
Concen: 16.841 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:119 Resp: 134959

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	25.0	12.6	37.6

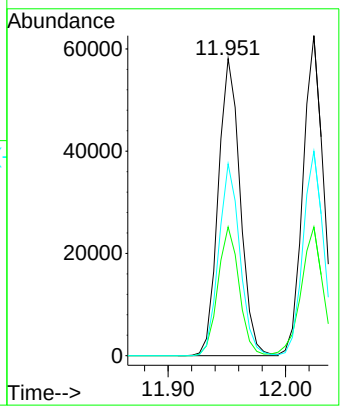




#87
1,3-Dichlorobenzene
Concen: 17.395 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:146 Resp: 7540

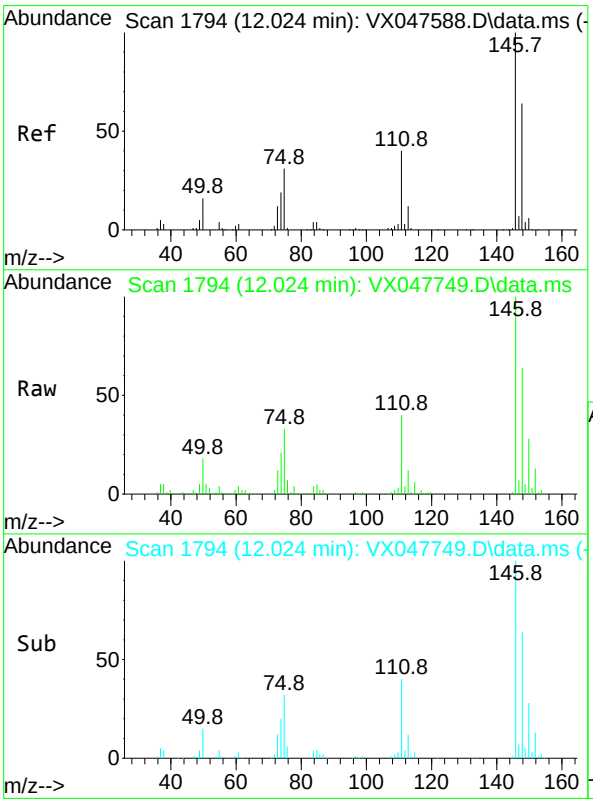
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	62.6	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

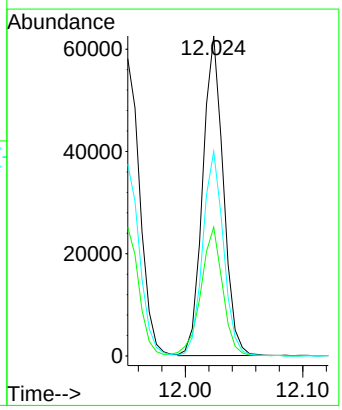
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

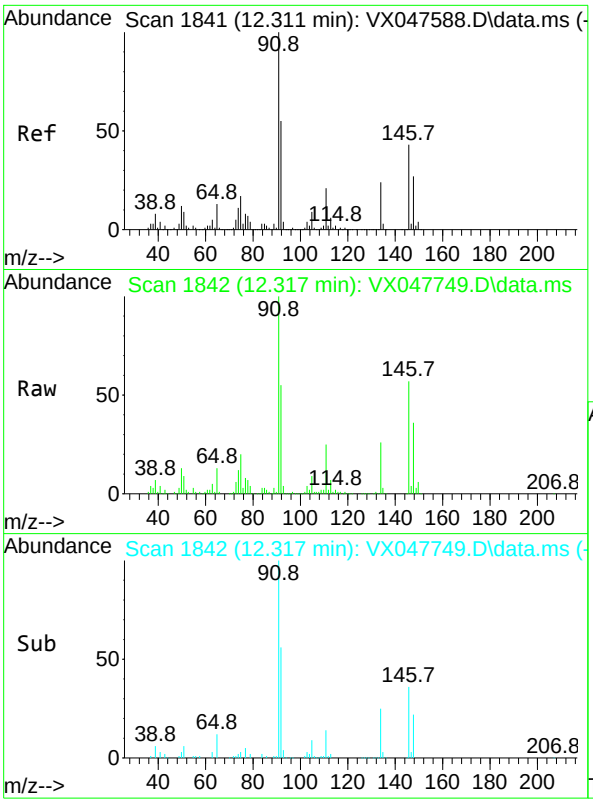


#88
1,4-Dichlorobenzene
Concen: 17.073 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:146 Resp: 75954

Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.8	62.4
148	64.6	31.7	95.1

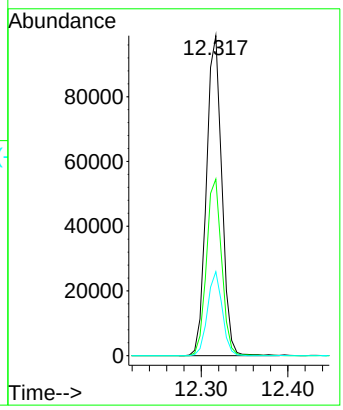




#89
n-Butylbenzene
Concen: 16.446 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 91 Resp: 12194

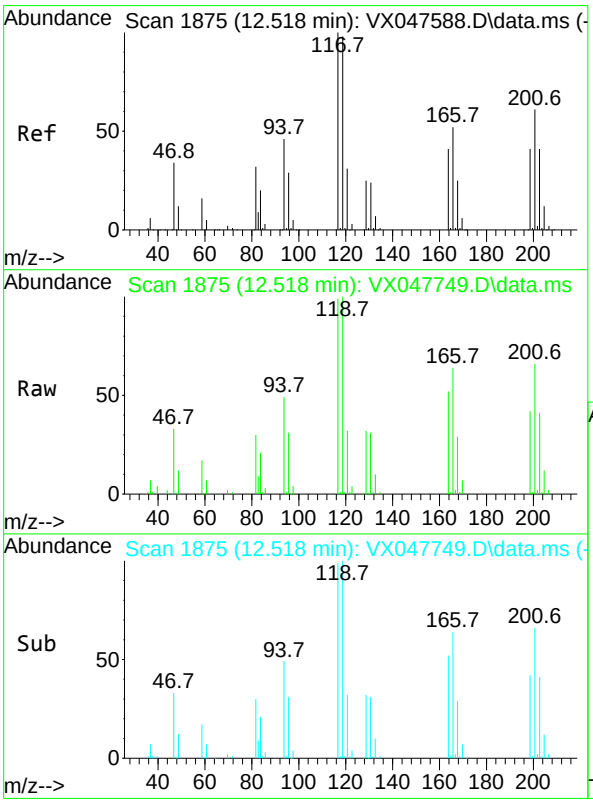
Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.6	82.7
134	25.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

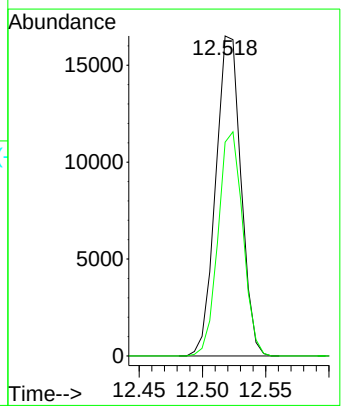
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

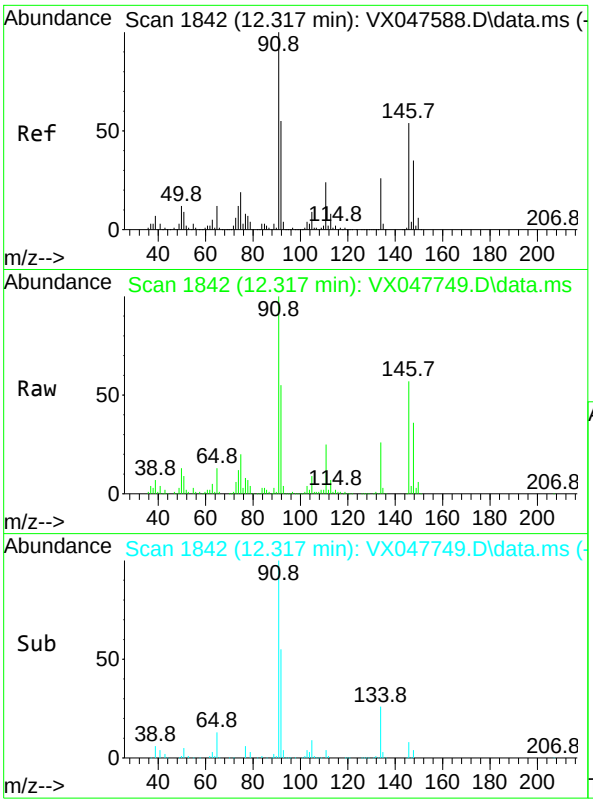


#90
Hexachloroethane
Concen: 16.291 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:117 Resp: 22920

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5

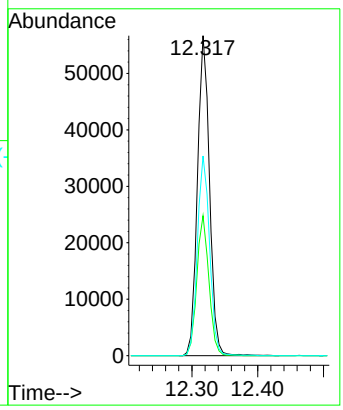




#91
1,2-Dichlorobenzene
Concen: 17.501 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:146 Resp: 7227

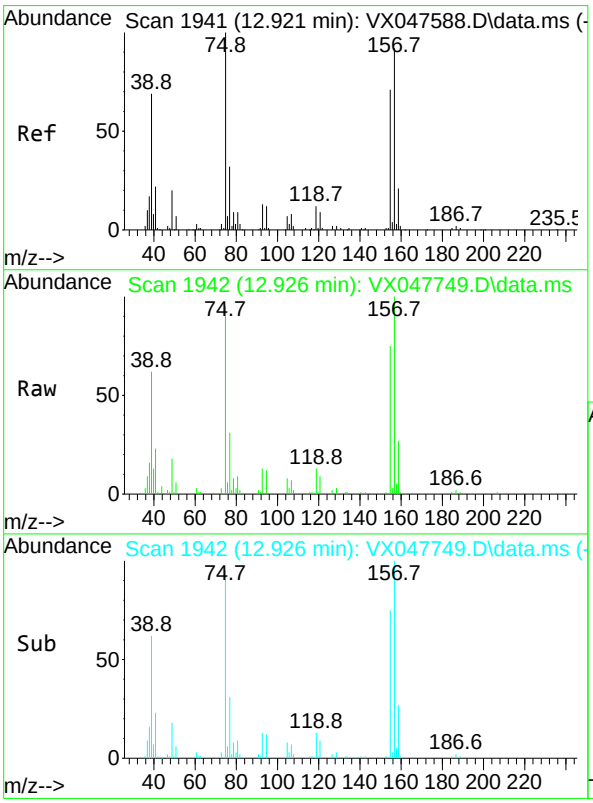
Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	63.3	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

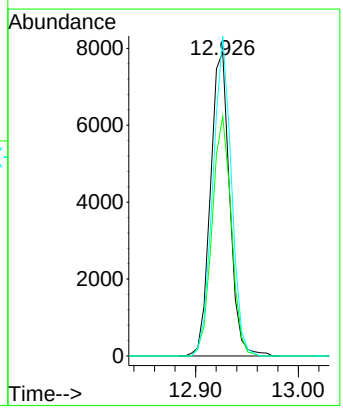
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

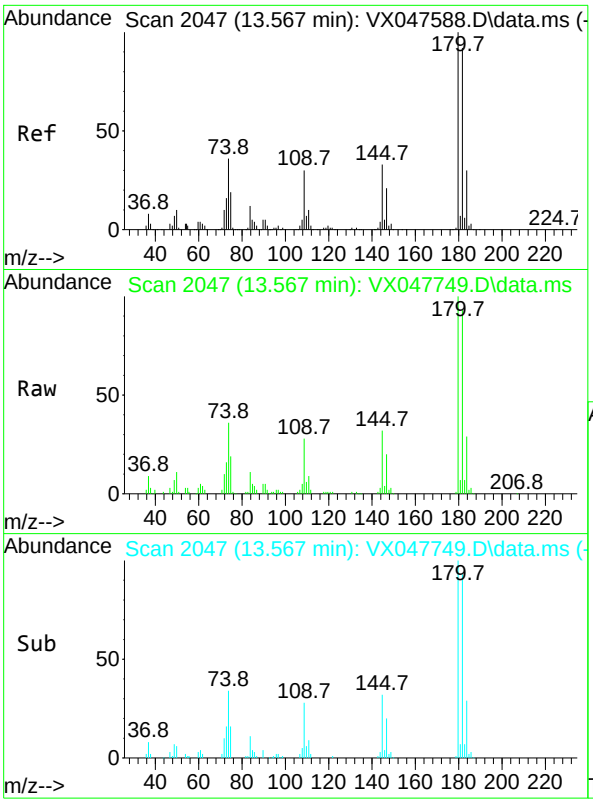


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.622 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 10228

Ion	Ratio	Lower	Upper
75	100		
155	78.8	37.7	113.1
157	101.1	49.8	149.4

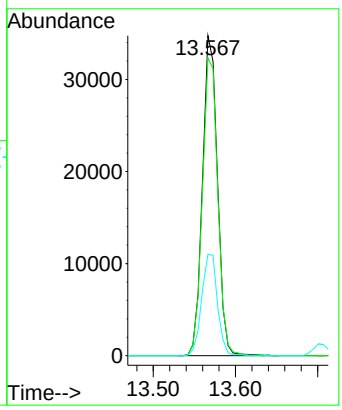




#93
1,2,4-Trichlorobenzene
Concen: 16.358 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:180 Resp: 4390

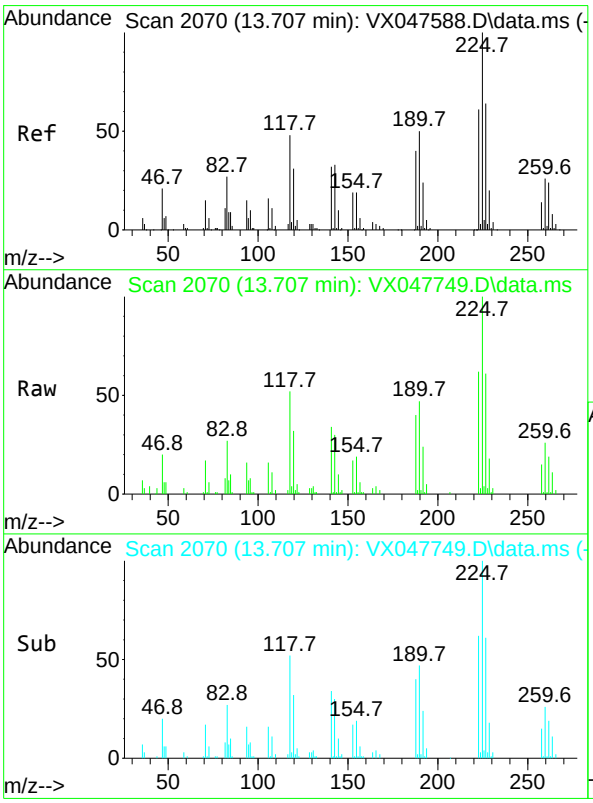
Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.6	139.8
145	33.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations APPROVED

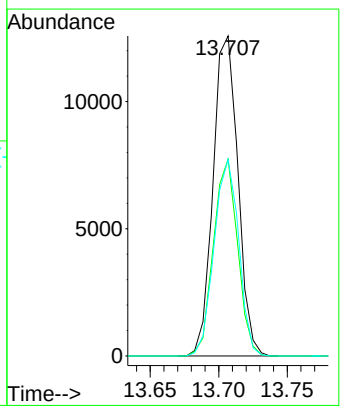
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

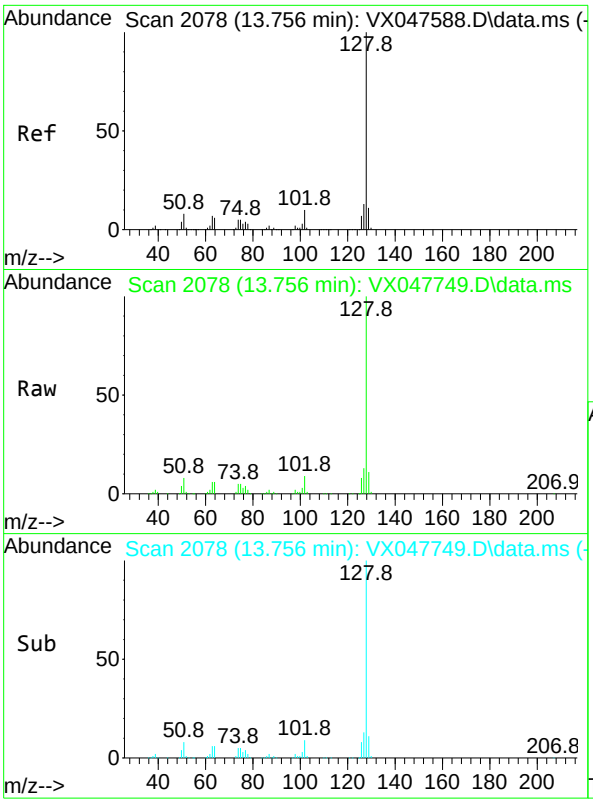


#94
Hexachlorobutadiene
Concen: 17.385 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:225 Resp: 15848

Ion	Ratio	Lower	Upper
225	100		
223	59.8	31.7	95.1
227	60.8	32.0	96.0

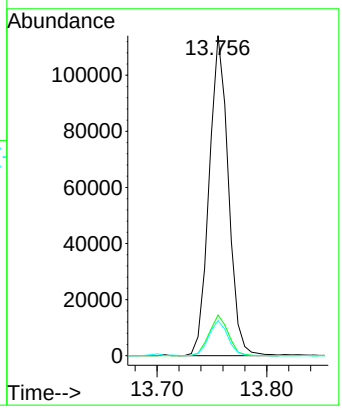




#95
Naphthalene
Concen: 16.995 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:128 Resp: 13888

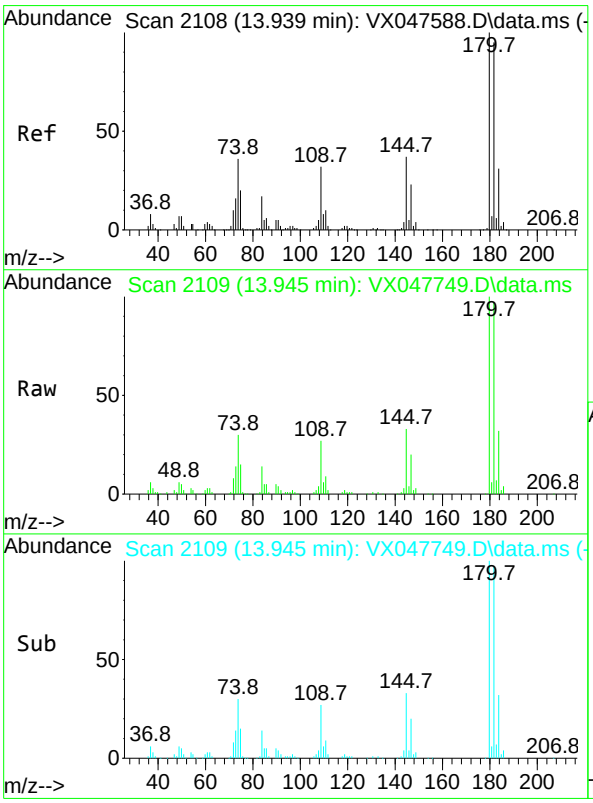
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Manual Integrations
APPROVED

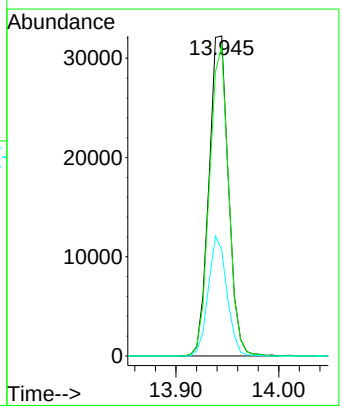
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.094 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:180 Resp: 42676

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.6	142.8
145	35.6	17.9	53.7



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

Manual Integration Report

Sequence:	vx091625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047585.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dichlorobenzene	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dioxane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC005	VX047586.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:50 AM	MMDadoda	9/18/2025 3:22:12 PM	Peak Integrated by Software
VSTDICC020	VX047587.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:57 AM	MMDadoda	9/18/2025 3:22:15 PM	Peak Integrated by Software
VSTDICCC050	VX047588.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:01 AM	MMDadoda	9/18/2025 3:22:17 PM	Peak Integrated by Software
VSTDICC100	VX047589.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:06 AM	MMDadoda	9/18/2025 3:22:20 PM	Peak Integrated by Software
VSTDICC150	VX047590.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:11 AM	MMDadoda	9/18/2025 3:22:24 PM	Peak Integrated by Software
VSTDICV050	VX047592.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:15 AM	MMDadoda	9/18/2025 3:22:26 PM	Peak Integrated by Software
VSTDCCC050	VX047599.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:34 AM	MMDadoda	9/18/2025 3:22:31 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	Vx092325	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047719.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:08:47 AM	MMDadoda	9/26/2025 1:42:21 AM	Peak Integrated by Software
VX0923WBS02	VX047723.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:08:55 AM	MMDadoda	9/26/2025 1:42:24 AM	Peak Integrated by Software
VSTDCCC050	VX047744.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:09:13 AM	MMDadoda	9/26/2025 1:42:30 AM	Peak Integrated by Software
VSTDCCC050	VX047746.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:09:17 AM	MMDadoda	9/26/2025 1:42:31 AM	Peak Integrated by Software
VX0923WBS03	VX047748.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:09:22 AM	MMDadoda	9/26/2025 1:42:33 AM	Peak Integrated by Software
VX0923WBSD03	VX047749.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:09:26 AM	MMDadoda	9/26/2025 1:42:34 AM	Peak Integrated by Software
VSTDCCC050	VX047767.D	1,2,3-Trichloropropane	JOHN	9/25/2025 10:16:21 AM	MMDadoda	9/26/2025 1:42:40 AM	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 # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM		
SubDirectory	VX091625	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135487
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494
CCC	VP135488
Internal Standard/PEM	
ICV/I.BLK	VP135495
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047584.D	16 Sep 2025 08:56	JC/MD	Ok
2	VSTDICC001	VX047585.D	16 Sep 2025 09:23	JC/MD	Ok,M
3	VSTDICC005	VX047586.D	16 Sep 2025 10:16	JC/MD	Ok,M
4	VSTDICC020	VX047587.D	16 Sep 2025 10:37	JC/MD	Ok,M
5	VSTDICCC050	VX047588.D	16 Sep 2025 10:58	JC/MD	Ok,M
6	VSTDICC100	VX047589.D	16 Sep 2025 11:40	JC/MD	Ok,M
7	VSTDICC150	VX047590.D	16 Sep 2025 12:01	JC/MD	Ok,M
8	IBLK	VX047591.D	16 Sep 2025 12:22	JC/MD	Ok
9	VSTDICV050	VX047592.D	16 Sep 2025 13:35	JC/MD	Ok,M
10	VX0916MBL01	VX047593.D	16 Sep 2025 14:03	JC/MD	Ok
11	VX0916WBL01	VX047594.D	16 Sep 2025 14:53	JC/MD	Ok
12	VX0916WBS01	VX047595.D	16 Sep 2025 15:21	JC/MD	Ok,M
13	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46	JC/MD	Ok,M
14	Q3015-01	VX047597.D	16 Sep 2025 16:07	JC/MD	Ok,M
15	VIBLK	VX047598.D	16 Sep 2025 16:30	JC/MD	Ok
16	VSTDCCC050	VX047599.D	16 Sep 2025 16:51	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 # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047718.D	23 Sep 2025 08:05	JC/MD	Ok
2	VSTDCCC050	VX047719.D	23 Sep 2025 09:02	JC/MD	Ok,M
3	VX0923MBL01	VX047720.D	23 Sep 2025 09:31	JC/MD	Ok
4	VX0923WBL01	VX047721.D	23 Sep 2025 10:22	JC/MD	Ok
5	VX0923WBS01	VX047722.D	23 Sep 2025 10:48	JC/MD	Not Ok
6	VX0923WBS02	VX047723.D	23 Sep 2025 11:15	JC/MD	Ok,M
7	Q3097-01DL	VX047724.D	23 Sep 2025 11:36	JC/MD	Ok
8	Q3141-01	VX047725.D	23 Sep 2025 12:22	JC/MD	Ok
9	VX0923WBSD02	VX047726.D	23 Sep 2025 12:43	JC/MD	Ok,M
10	Q3141-02	VX047727.D	23 Sep 2025 13:04	JC/MD	Not Ok
11	Q3097-18	VX047728.D	23 Sep 2025 13:25	JC/MD	Ok
12	Q3097-16	VX047729.D	23 Sep 2025 13:46	JC/MD	Ok
13	Q3141-03	VX047730.D	23 Sep 2025 14:07	JC/MD	Ok
14	Q3141-04	VX047731.D	23 Sep 2025 14:28	JC/MD	Not Ok
15	Q3141-05	VX047732.D	23 Sep 2025 14:49	JC/MD	Ok
16	Q3141-06	VX047733.D	23 Sep 2025 15:10	JC/MD	Ok
17	Q3141-07	VX047734.D	23 Sep 2025 15:31	JC/MD	Ok
18	Q3097-15	VX047735.D	23 Sep 2025 15:52	JC/MD	Ok
19	Q3097-17	VX047736.D	23 Sep 2025 16:13	JC/MD	Ok
20	Q3097-19	VX047737.D	23 Sep 2025 16:34	JC/MD	Dilution
21	Q3097-20	VX047738.D	23 Sep 2025 16:55	JC/MD	Dilution

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 # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3097-21	VX047739.D	23 Sep 2025 17:16	JC/MD	Dilution
23	Q3097-22	VX047740.D	23 Sep 2025 17:36	JC/MD	Ok
24	Q3097-23	VX047741.D	23 Sep 2025 17:57	JC/MD	Dilution
25	Q3097-24	VX047742.D	23 Sep 2025 18:18	JC/MD	Ok
26	Q3151-02	VX047743.D	23 Sep 2025 18:39	JC/MD	Ok
27	VSTDCCC050	VX047744.D	23 Sep 2025 19:00	JC/MD	Ok,M
28	BFB	VX047745.D	24 Sep 2025 01:30	JC/MD	Ok
29	VSTDCCC050	VX047746.D	24 Sep 2025 02:08	JC/MD	Ok,M
30	VX0923WBL02	VX047747.D	24 Sep 2025 03:11	JC/MD	Ok
31	VX0923WBS03	VX047748.D	24 Sep 2025 03:53	JC/MD	Ok,M
32	VX0923WBSD03	VX047749.D	24 Sep 2025 04:14	JC/MD	Ok,M
33	Q3127-03	VX047750.D	24 Sep 2025 04:52	JC/MD	Dilution
34	Q3127-05	VX047751.D	24 Sep 2025 05:13	JC/MD	Ok
35	Q3127-06	VX047752.D	24 Sep 2025 05:34	JC/MD	Dilution
36	Q3127-08	VX047753.D	24 Sep 2025 05:55	JC/MD	Dilution
37	Q3127-09	VX047754.D	24 Sep 2025 06:16	JC/MD	Dilution
38	Q3127-10	VX047755.D	24 Sep 2025 06:37	JC/MD	ReRun
39	Q3127-12	VX047756.D	24 Sep 2025 06:58	JC/MD	Dilution
40	Q3127-16	VX047757.D	24 Sep 2025 07:19	JC/MD	ReRun
41	Q3127-18	VX047758.D	24 Sep 2025 07:40	JC/MD	ReRun
42	Q3127-07	VX047759.D	24 Sep 2025 08:01	JC/MD	Not Ok
43	Q3141-04	VX047760.D	24 Sep 2025 08:22	JC/MD	Ok
44	Q3141-02	VX047761.D	24 Sep 2025 08:43	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 # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q3127-04	VX047762.D	24 Sep 2025 09:04	JC/MD	Dilution
46	Q3097-25	VX047763.D	24 Sep 2025 09:25	JC/MD	Dilution
47	Q3127-13	VX047764.D	24 Sep 2025 09:46	JC/MD	ReRun
48	Q3127-14MS	VX047765.D	24 Sep 2025 10:07	JC/MD	Ok,M
49	Q3127-15MSD	VX047766.D	24 Sep 2025 10:29	JC/MD	Ok,M
50	VSTDCCC050	VX047767.D	24 Sep 2025 10:50	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 # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM		
SubDirectory	VX091625	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135487
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494
CCC	VP135488
Internal Standard/PEM	
ICV/I.BLK	VP135495
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047584.D	16 Sep 2025 08:56		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX047585.D	16 Sep 2025 09:23		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX047586.D	16 Sep 2025 10:16	QR-58	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX047587.D	16 Sep 2025 10:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX047588.D	16 Sep 2025 10:58		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX047589.D	16 Sep 2025 11:40		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX047590.D	16 Sep 2025 12:01		JC/MD	Ok,M
8	IBLK	IBLK	VX047591.D	16 Sep 2025 12:22		JC/MD	Ok
9	VSTDICV050	ICVVX091625	VX047592.D	16 Sep 2025 13:35		JC/MD	Ok,M
10	VX0916MBL01	VX0916MBL01	VX047593.D	16 Sep 2025 14:03		JC/MD	Ok
11	VX0916WBL01	VX0916WBL01	VX047594.D	16 Sep 2025 14:53		JC/MD	Ok
12	VX0916WBS01	VX0916WBS01	VX047595.D	16 Sep 2025 15:21		JC/MD	Ok,M
13	VX0916WBSD01	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46		JC/MD	Ok,M
14	Q3015-01	WP0925-PT-VOA-WP	VX047597.D	16 Sep 2025 16:07		JC/MD	Ok,M
15	VIBLK	VIBLK	VX047598.D	16 Sep 2025 16:30		JC/MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VX047599.D	16 Sep 2025 16:51		JC/MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP
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 # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
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	VX047718.D	23 Sep 2025 08:05		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047719.D	23 Sep 2025 09:02	pH#Lot#V12668	JC/MD	Ok,M
3	VX0923MBL01	VX0923MBL01	VX047720.D	23 Sep 2025 09:31		JC/MD	Ok
4	VX0923WBL01	VX0923WBL01	VX047721.D	23 Sep 2025 10:22		JC/MD	Ok
5	VX0923WBS01	VX0923WBS01	VX047722.D	23 Sep 2025 10:48	Recovery fail	JC/MD	Not Ok
6	VX0923WBS02	VX0923WBS02	VX047723.D	23 Sep 2025 11:15		JC/MD	Ok,M
7	Q3097-01DL	RE103D2-20250911DL	VX047724.D	23 Sep 2025 11:36	vial B pH<2	JC/MD	Ok
8	Q3141-01	BP-VPB-184-TB-20250	VX047725.D	23 Sep 2025 12:22	vial A pH<2 TB	JC/MD	Ok
9	VX0923WBSD02	VX0923WBSD02	VX047726.D	23 Sep 2025 12:43		JC/MD	Ok,M
10	Q3141-02	BP-VPB-184-EB-20250	VX047727.D	23 Sep 2025 13:04	vial A pH<2 EB;Hit of Com.#16,25	JC/MD	Not Ok
11	Q3097-18	TB05-20250912	VX047728.D	23 Sep 2025 13:25	vial A pH<2 TB	JC/MD	Ok
12	Q3097-16	TB03-20250911	VX047729.D	23 Sep 2025 13:46	vial A pH<2 TB	JC/MD	Ok
13	Q3141-03	BP-VPB-184-GW-60-62	VX047730.D	23 Sep 2025 14:07	vial A pH<2	JC/MD	Ok
14	Q3141-04	BP-VPB-184-GW-100-1	VX047731.D	23 Sep 2025 14:28	vial A pH<2 Surrogate Fail	JC/MD	Not Ok
15	Q3141-05	BP-VPB-184-GW-150-1	VX047732.D	23 Sep 2025 14:49	vial A pH<2	JC/MD	Ok
16	Q3141-06	BP-VPB-184-GW-200-2	VX047733.D	23 Sep 2025 15:10	vial A pH<2	JC/MD	Ok
17	Q3141-07	BP-VPB-184-GW-220-2	VX047734.D	23 Sep 2025 15:31	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 # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q3097-15	RE117D2-20250911	VX047735.D	23 Sep 2025 15:52	vial A pH<2	JC/MD	Ok
19	Q3097-17	TB04-20250911	VX047736.D	23 Sep 2025 16:13	vial A pH<2 TB	JC/MD	Ok
20	Q3097-19	RE120D1-20250912	VX047737.D	23 Sep 2025 16:34	vial A pH<2 Need 10X	JC/MD	Dilution
21	Q3097-20	DUP06-20250912	VX047738.D	23 Sep 2025 16:55	vial A pH<2 Need 10X	JC/MD	Dilution
22	Q3097-21	RE120D2-20250912	VX047739.D	23 Sep 2025 17:16	vial A pH<2 Need 5X	JC/MD	Dilution
23	Q3097-22	RE134D1-20250912	VX047740.D	23 Sep 2025 17:36	vial A pH<2	JC/MD	Ok
24	Q3097-23	RE134D4-20250912	VX047741.D	23 Sep 2025 17:57	vial A pH<2 Need 10X	JC/MD	Dilution
25	Q3097-24	RE134D2-20250912	VX047742.D	23 Sep 2025 18:18	vial A pH<2	JC/MD	Ok
26	Q3151-02	1402	VX047743.D	23 Sep 2025 18:39	vial A pH<2	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX047744.D	23 Sep 2025 19:00		JC/MD	Ok,M
28	BFB	BFB	VX047745.D	24 Sep 2025 01:30		JC/MD	Ok
29	VSTDCCC050	VSTDCCC050	VX047746.D	24 Sep 2025 02:08	CCC failed High For Com.#02	JC/MD	Ok,M
30	VX0923WBL02	VX0923WBL02	VX047747.D	24 Sep 2025 03:11		JC/MD	Ok
31	VX0923WBS03	VX0923WBS03	VX047748.D	24 Sep 2025 03:53		JC/MD	Ok,M
32	VX0923WBSD03	VX0923WBSD03	VX047749.D	24 Sep 2025 04:14		JC/MD	Ok,M
33	Q3127-03	RE131D2-20250915	VX047750.D	24 Sep 2025 04:52	vial A pH<2 Need 5X	JC/MD	Dilution
34	Q3127-05	TT158I1-20250915	VX047751.D	24 Sep 2025 05:13	vial A pH<2	JC/MD	Ok
35	Q3127-06	TT180D2-20250915	VX047752.D	24 Sep 2025 05:34	vial A pH<2 Need 10X	JC/MD	Dilution
36	Q3127-08	RE132D6-20250916	VX047753.D	24 Sep 2025 05:55	vial A pH<2 Need 50X	JC/MD	Dilution

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 # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	Q3127-09	TT101D2-20250915	VX047754.D	24 Sep 2025 06:16	vial A pH<2 Need 50X	JC/MD	Dilution
38	Q3127-10	TT101D-20250915	VX047755.D	24 Sep 2025 06:37	vial A pH<2 E flag of previous sample;CCAL Failed High	JC/MD	ReRun
39	Q3127-12	RE132D7-20250916	VX047756.D	24 Sep 2025 06:58	vial A pH<2 Need 50X	JC/MD	Dilution
40	Q3127-16	TT101D1-20250915	VX047757.D	24 Sep 2025 07:19	vial A pH<2 CCC Failed High; Need 5X	JC/MD	ReRun
41	Q3127-18	BPOW1-8-20250917	VX047758.D	24 Sep 2025 07:40	vial A pH<2 E flag of previous sample	JC/MD	ReRun
42	Q3127-07	RE135D2-20250915	VX047759.D	24 Sep 2025 08:01	vial A pH<2 Confirm Concentration	JC/MD	Not Ok
43	Q3141-04	BP-VPB-184-GW-100-1	VX047760.D	24 Sep 2025 08:22	vial B pH<2	JC/MD	Ok
44	Q3141-02	BP-VPB-184-EB-20250	VX047761.D	24 Sep 2025 08:43	vial B pH<2 EB	JC/MD	Ok
45	Q3127-04	DUP07-20250915	VX047762.D	24 Sep 2025 09:04	vial A pH<2 Need 5X	JC/MD	Dilution
46	Q3097-25	RE134D3-20250912	VX047763.D	24 Sep 2025 09:25	vial A pH<2 Need 10X	JC/MD	Dilution
47	Q3127-13	TT119S1-20250916	VX047764.D	24 Sep 2025 09:46	vial A pH<2 E flag of previous sample	JC/MD	ReRun
48	Q3127-14MS	TT119S1-20250916MS	VX047765.D	24 Sep 2025 10:07	vial A pH<2	JC/MD	Ok,M
49	Q3127-15MSD	TT119S1-20250916MS	VX047766.D	24 Sep 2025 10:29	vial A pH<2	JC/MD	Ok,M
50	VSTDCCC050	VSTDCCC050EC	VX047767.D	24 Sep 2025 10:50		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 : Q3141

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: Vx092325,

Standard ID :
VP134142,VP134149,VP134933,VP134956,VP134957,VP135480,VP135552,VP135588,VP135589,VP135590,VP135591,VP135593,VP135594,

Chemical ID :
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14928,V14929,V14951,V14952,V15066,V15067,V15068,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
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = 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
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14626 = 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
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/19/2025

FROM 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = 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
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135588	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = 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	VP135589	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = 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	VP135590	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = 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	VP135591	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = 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	VP135593	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = 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	VP135594	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = 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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

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	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

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	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

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	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

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	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

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.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

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	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

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	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

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)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

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)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

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	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

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	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

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	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

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	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

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	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

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	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

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	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

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	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

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)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

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)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

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	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

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	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

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)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

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

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
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	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
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

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
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	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
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

Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

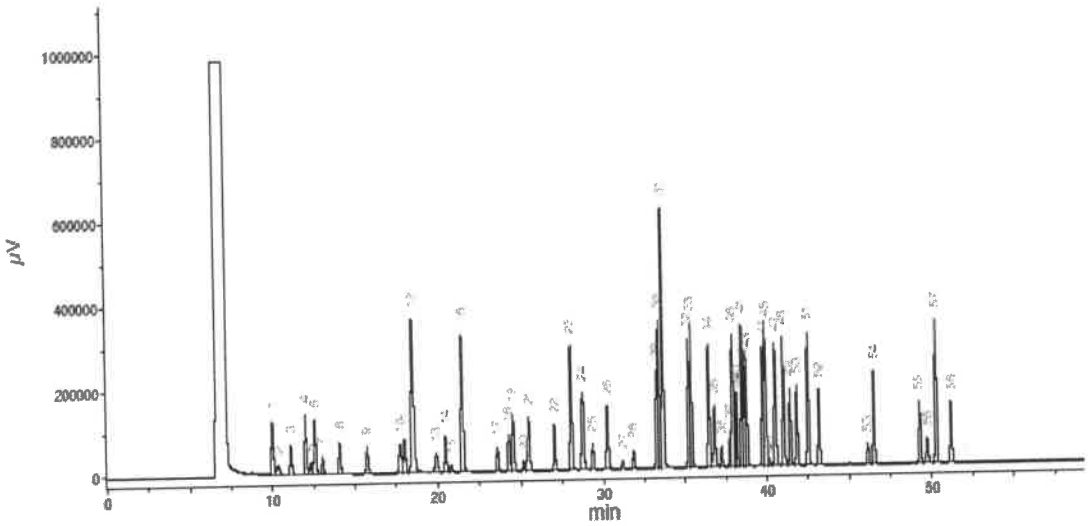
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	(0466)	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)	06128PX	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	20.8	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	40010.0	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	40017.6	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 (45mg/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	1999.8	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	1999.8	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	40003.8	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 8040mg/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	40000.8	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 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).

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	6.97
2	1,1,2-Trichloro-1,2,3-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	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
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	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
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	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
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	41.63
51	n-Butylbenzene	42.02
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	48.26
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, 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))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 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.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. 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 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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): Lot#
Methanol 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	0.021	Flask Uncertainty
		5E-05	Balance Uncertainty

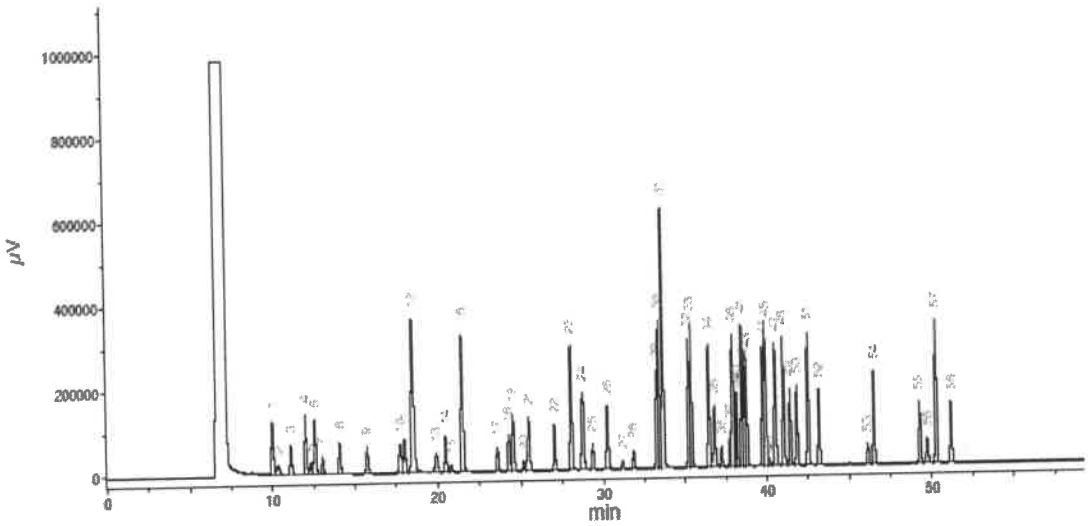
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	(0466)	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)	06128PX	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	20.8	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	40010.0	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	40017.6	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 (45mg/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	1999.8	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	1999.8	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	40003.8	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 8040mg/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	40000.8	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 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).

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	6.97
2	1,1,2-Trichloro-1,2,3-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	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
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	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
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	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
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	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
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, 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))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 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.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. 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 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

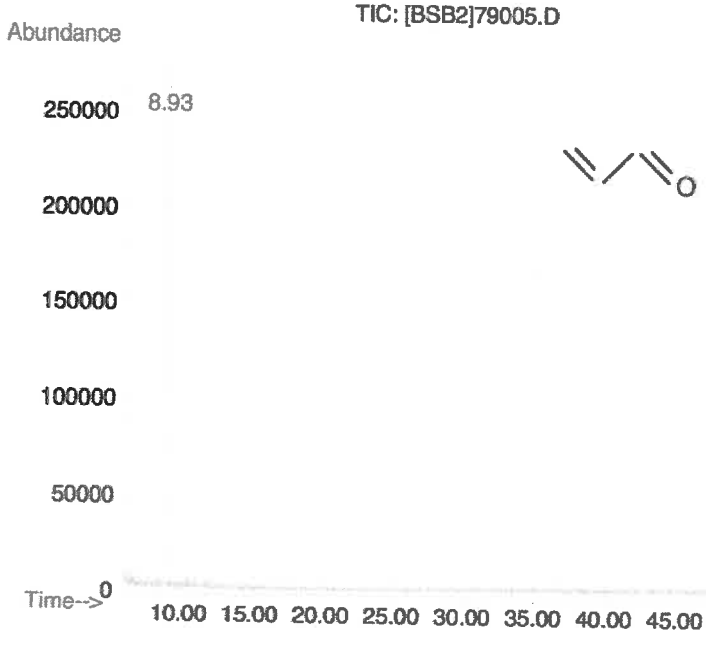
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

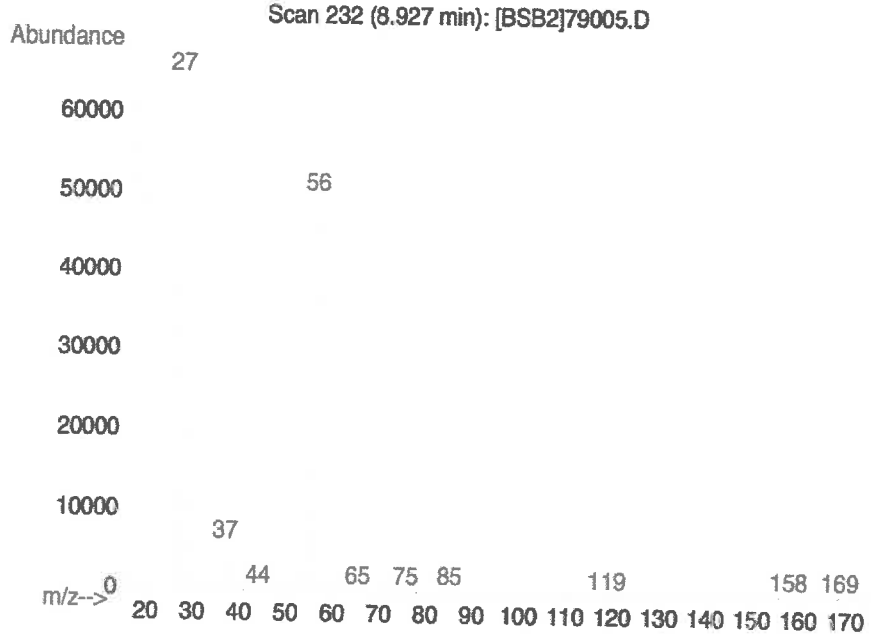
Justin Dippold 091424
Formulated By: Justin Dippold DATE

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

Weight(s) shown below were combined and diluted to (mL): 10.0

Solvent(s): **Lot#**
Water 072324Q

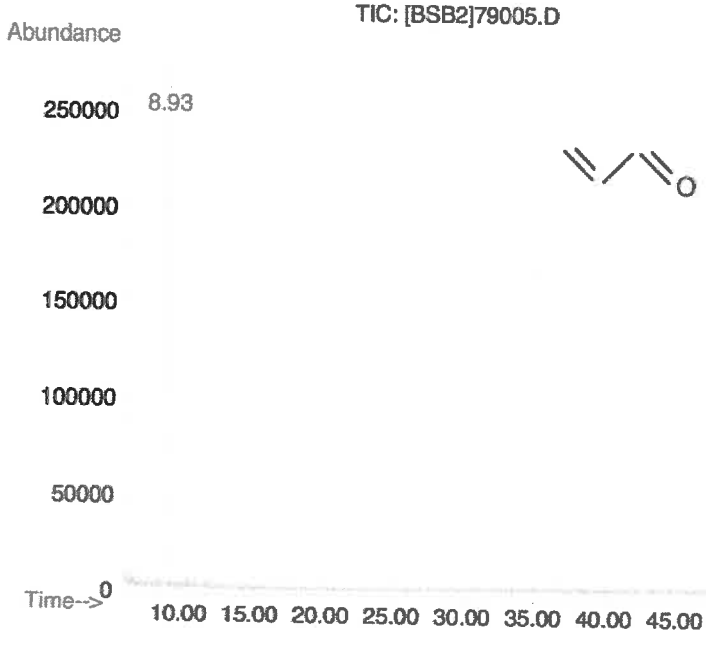
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

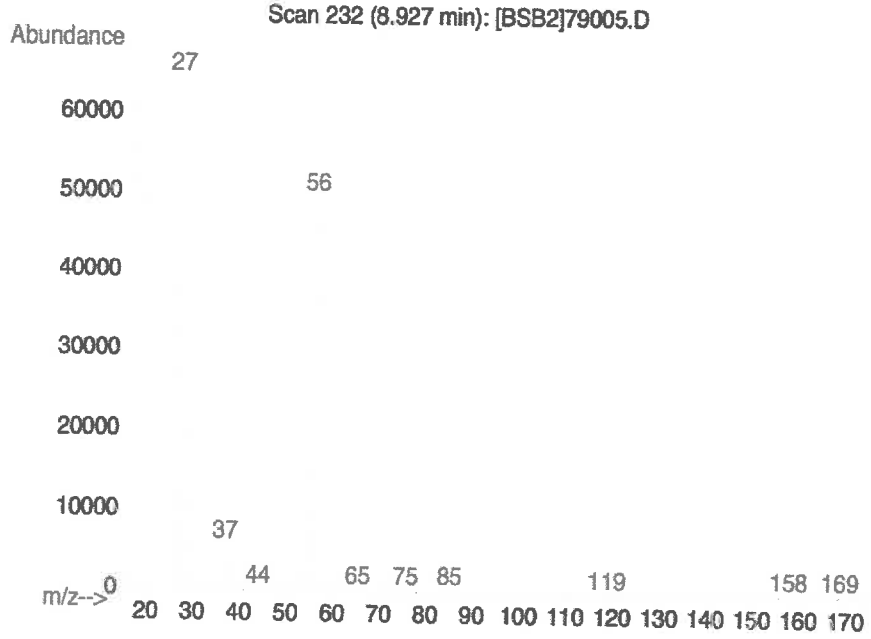
Justin Dippold 091424
Formulated By: Justin Dippold DATE

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

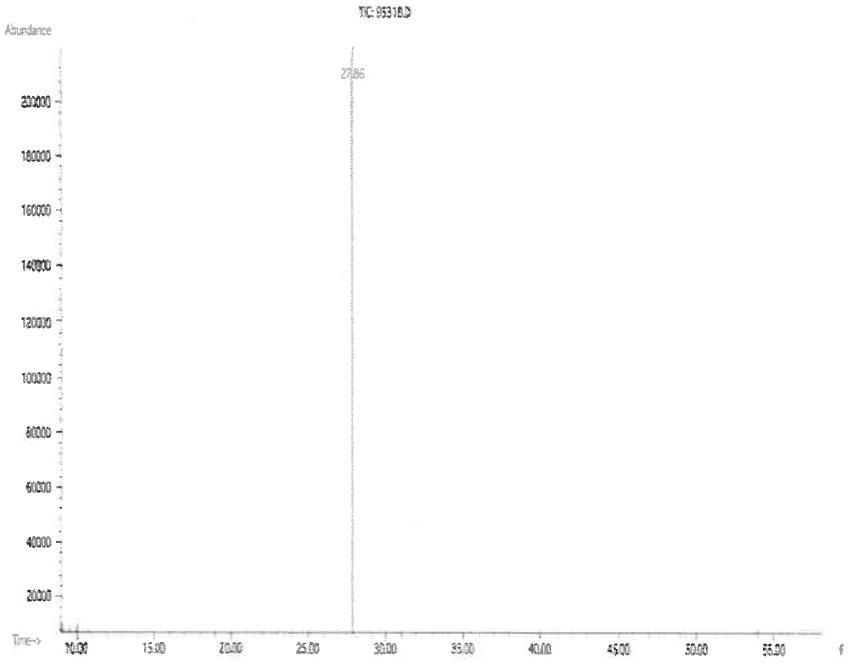
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

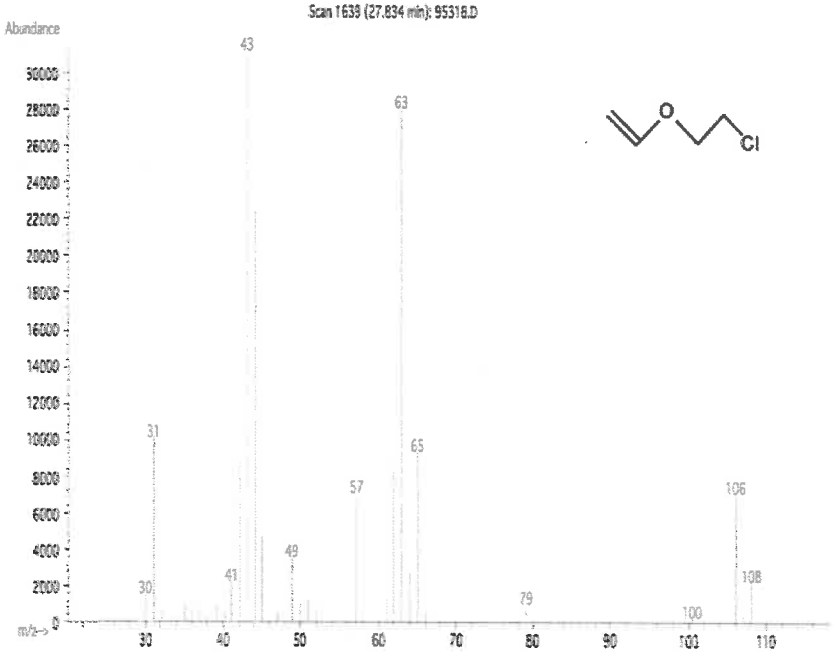
Weight(s) shown below were combined and diluted to (mL): 50.0

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

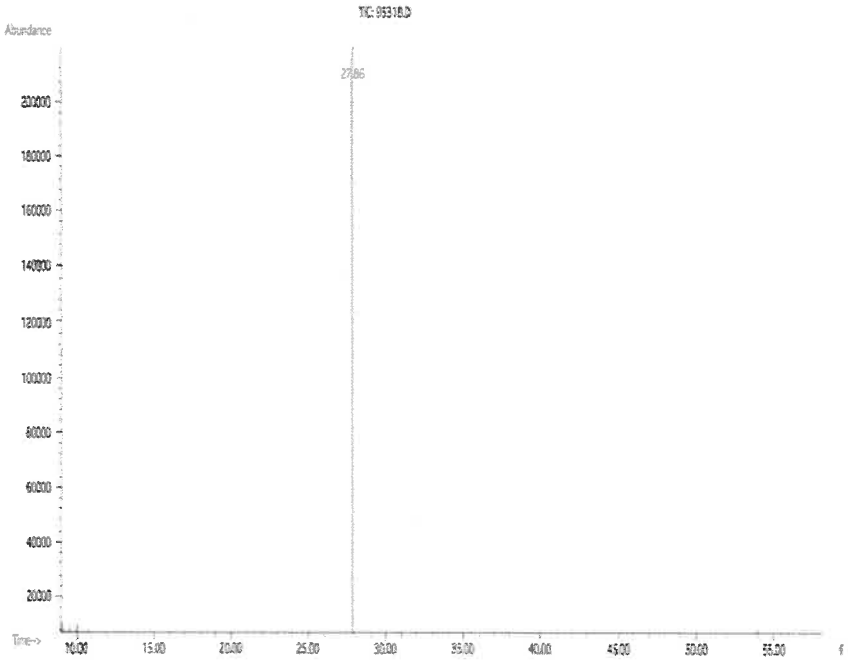
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

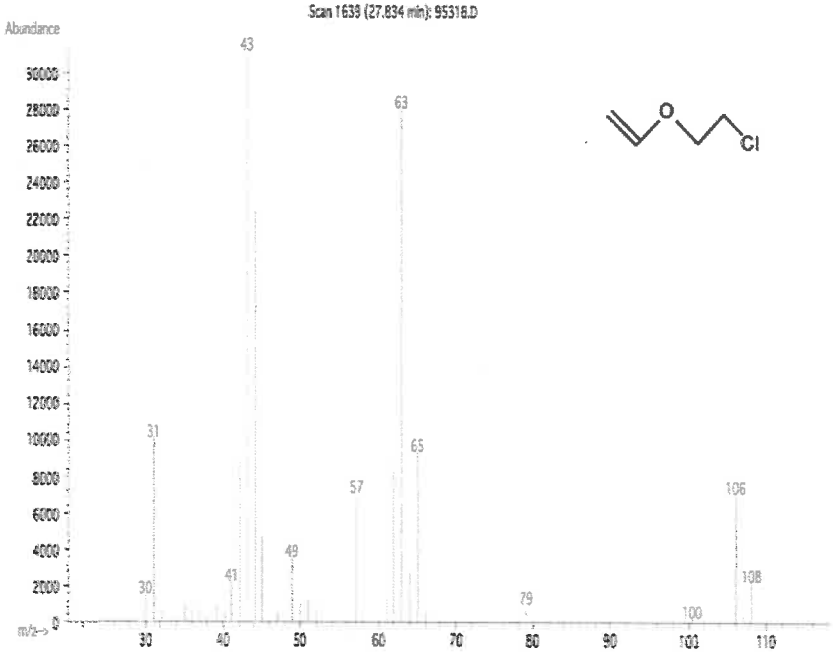
Weight(s) shown below were combined and diluted to (mL): 50.0

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

Dec 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

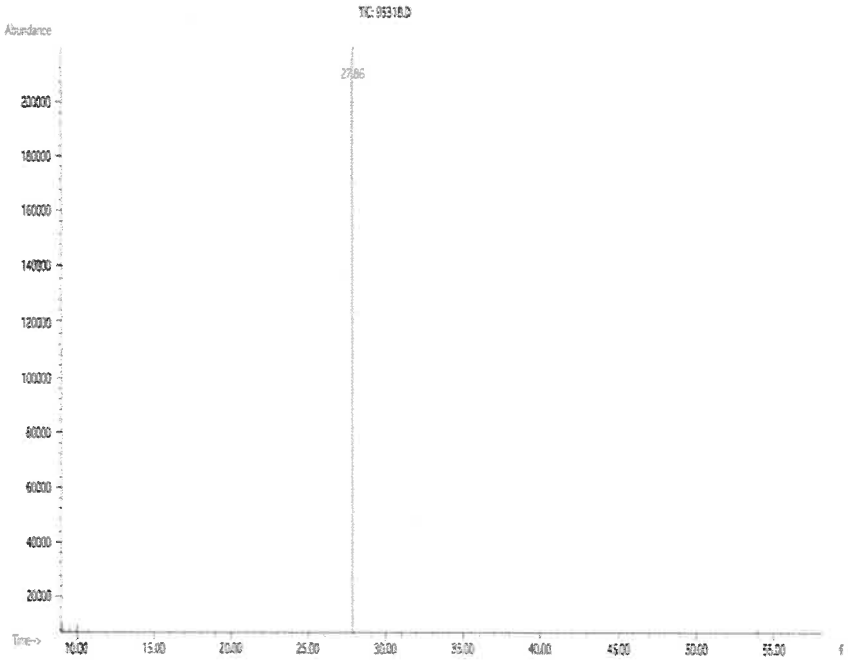
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

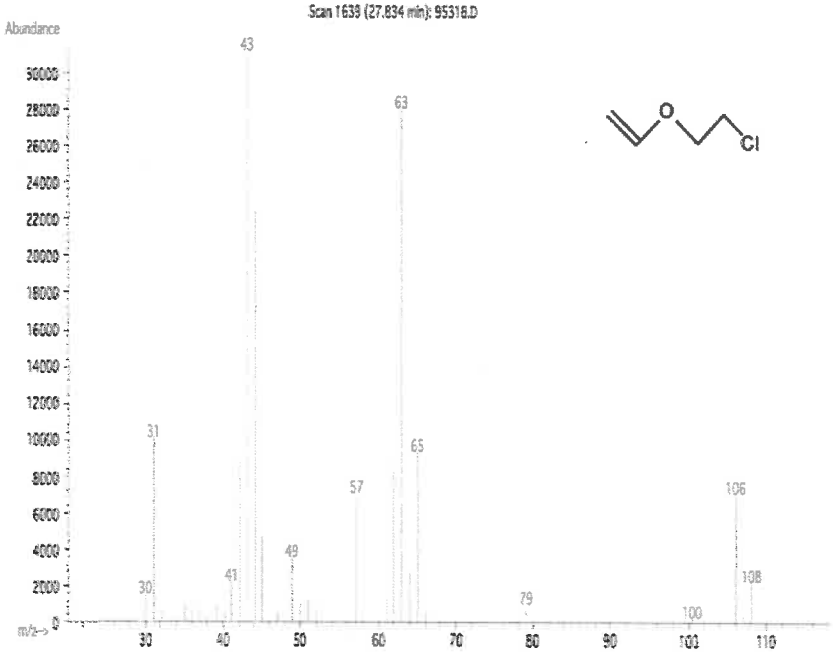
Weight(s) shown below were combined and diluted to (mL): 50.0

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.

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

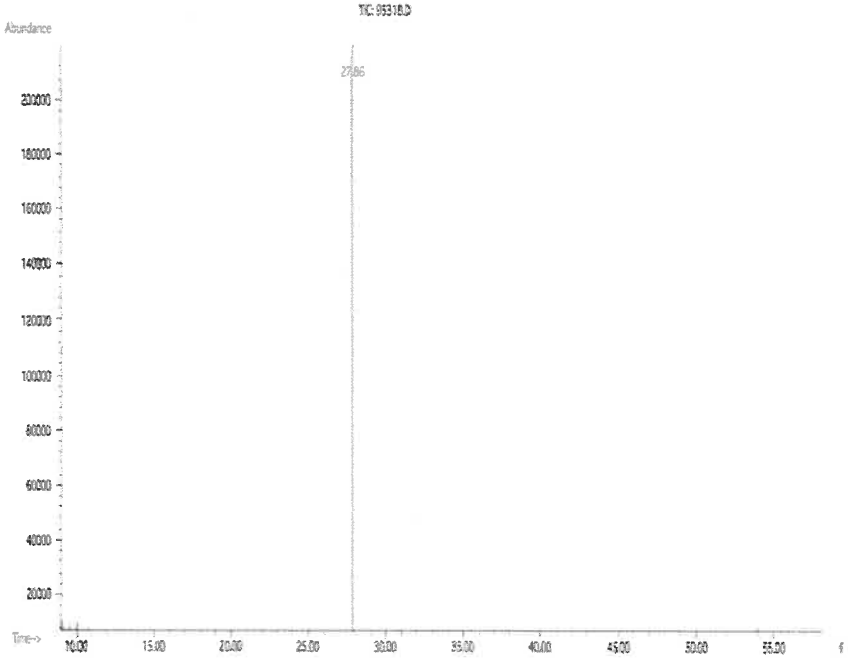
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

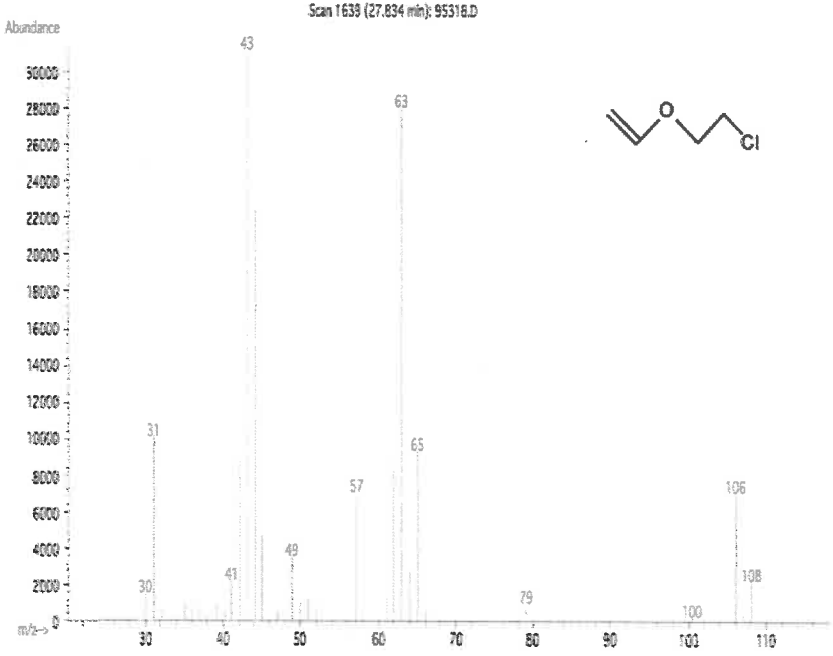
Weight(s) shown below were combined and diluted to (mL): 50.0

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

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. : 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.)

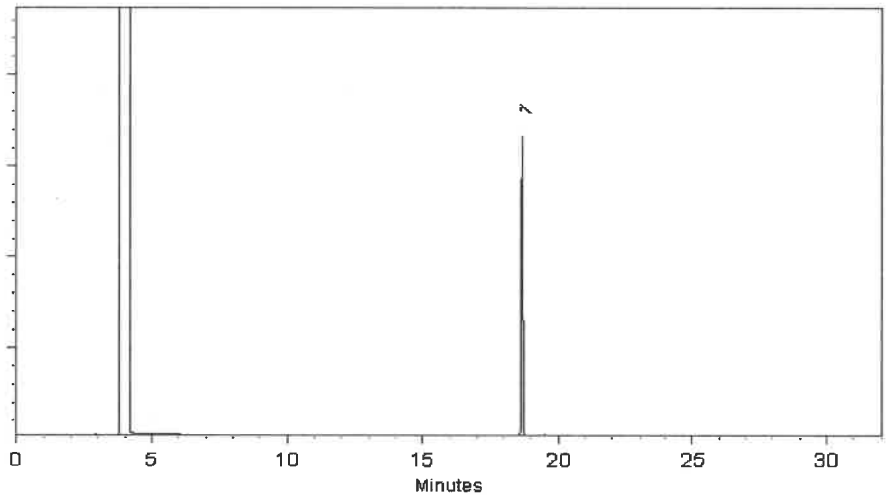
Inj. Temp:
200°C

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. : 30006 **Lot No.:** A0200785

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 : November 30, 2026 **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	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

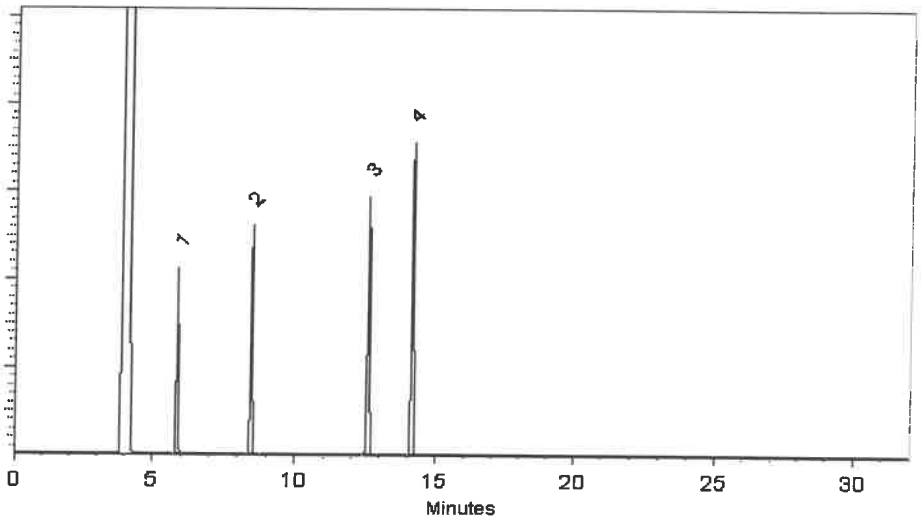
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-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. : 30006 **Lot No.:** A0200785

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 : November 30, 2026 **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	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

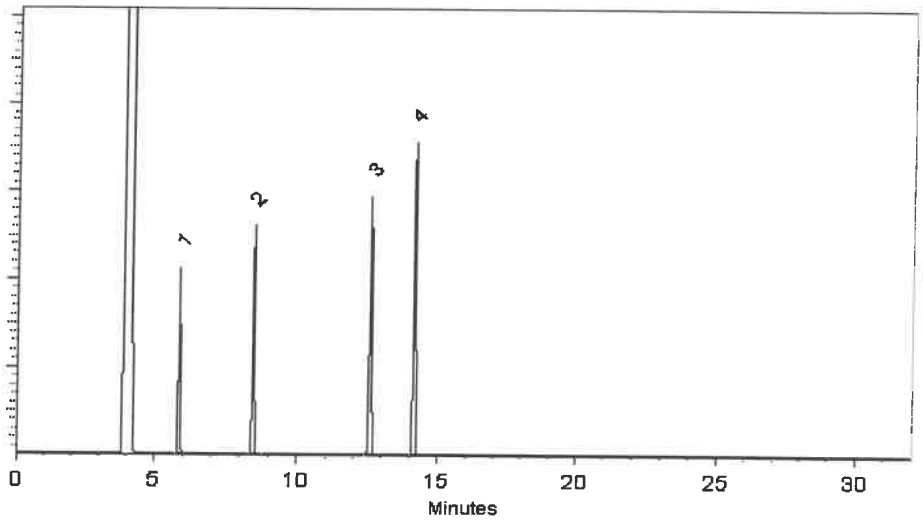
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-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. : 30006 **Lot No.:** A0200785

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 : November 30, 2026 **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	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

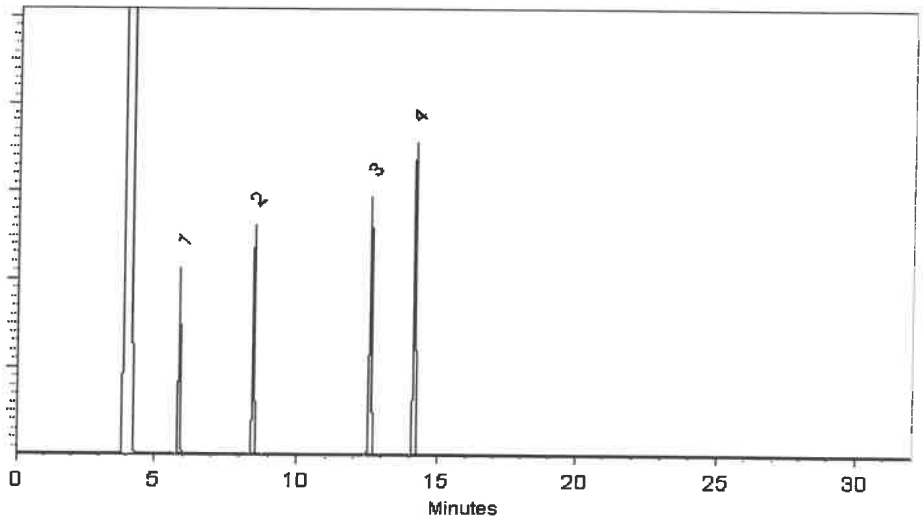
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-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

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. : 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

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

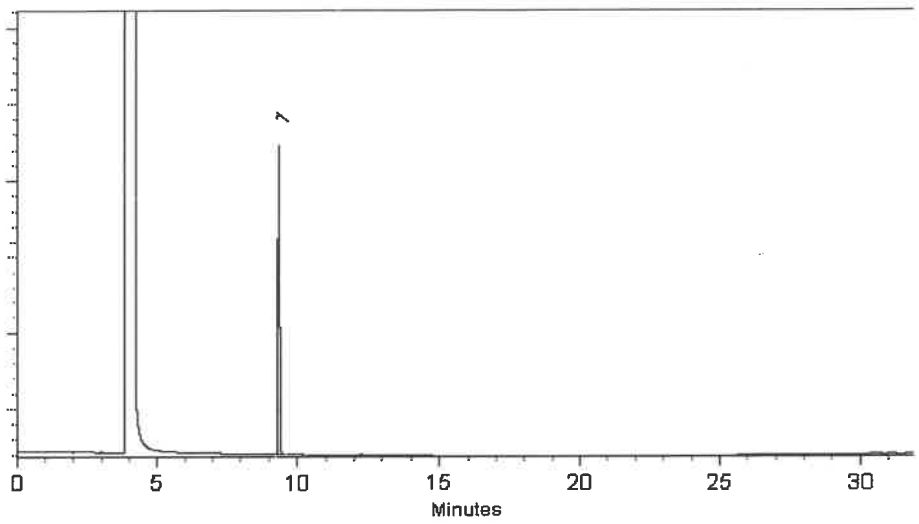
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

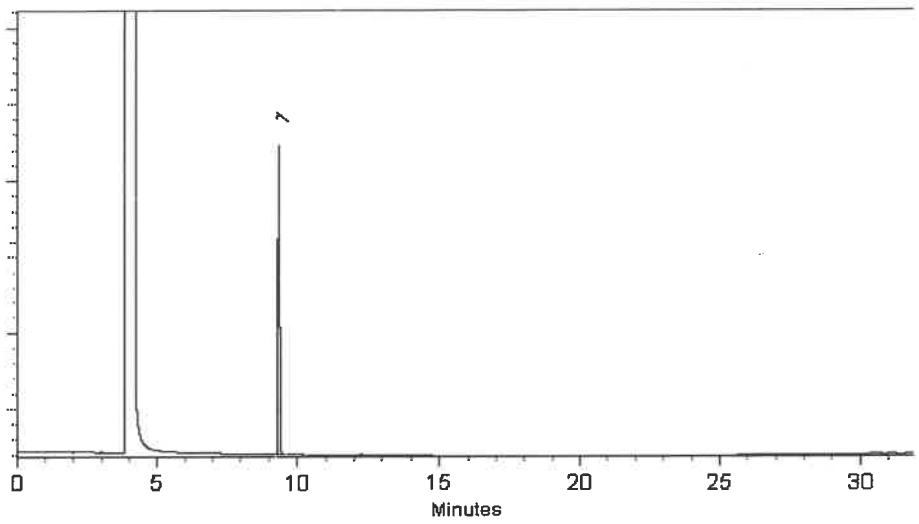
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

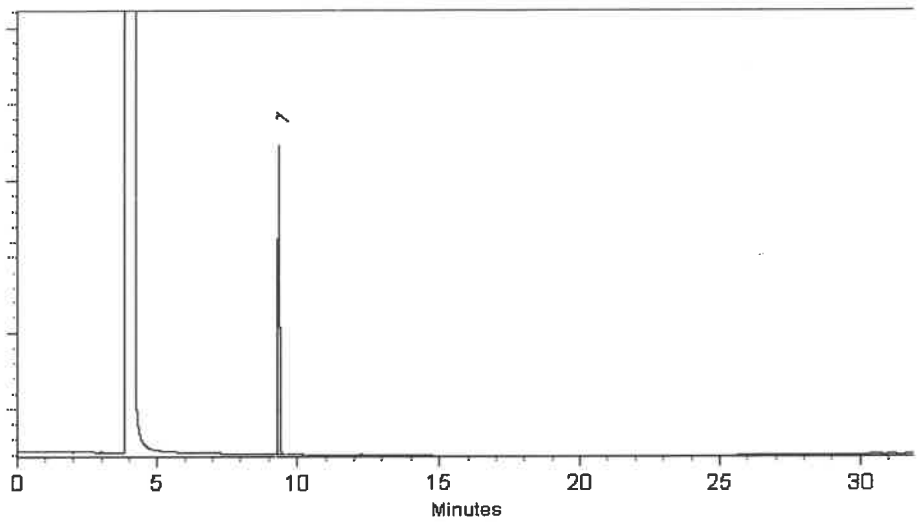
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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

10 vial.

CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

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.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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.)

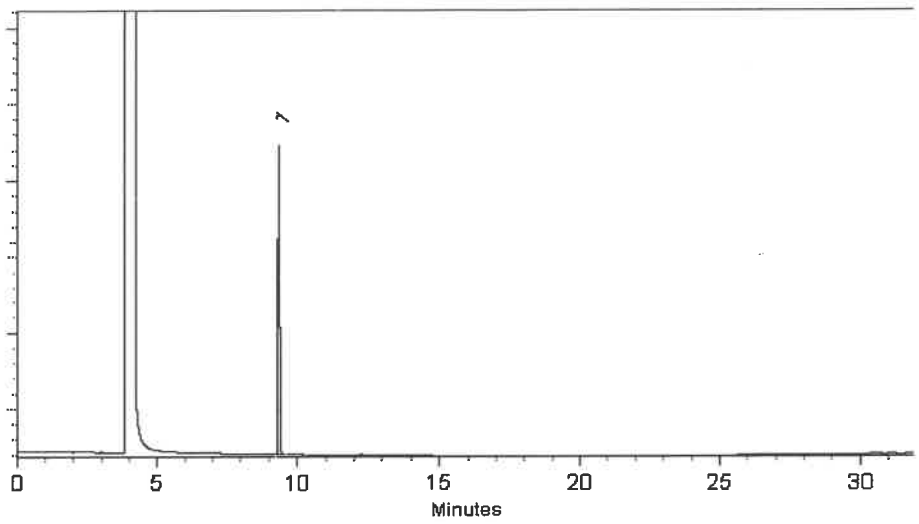
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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.

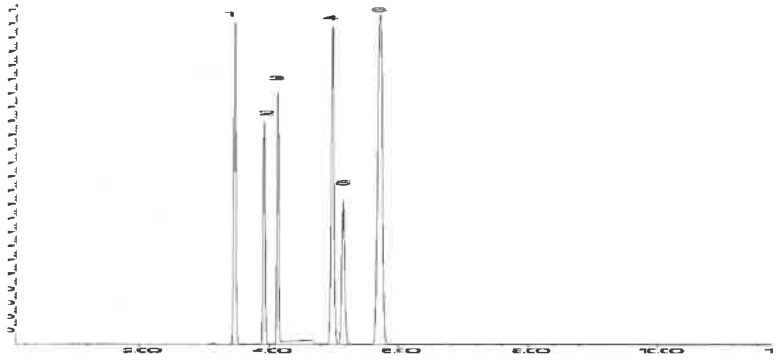
Inj. Temp:
200°C

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.

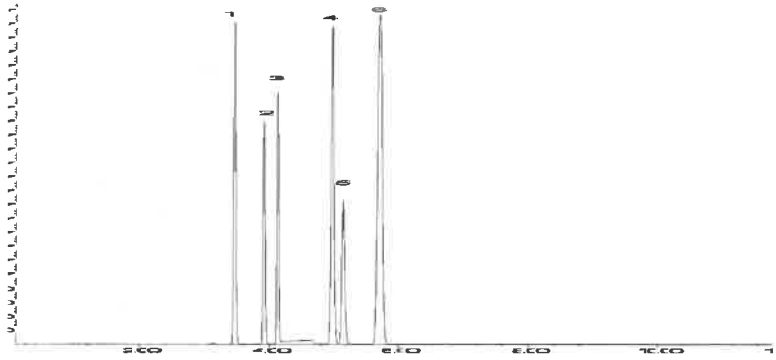
Inj. Temp:
200°C

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.)

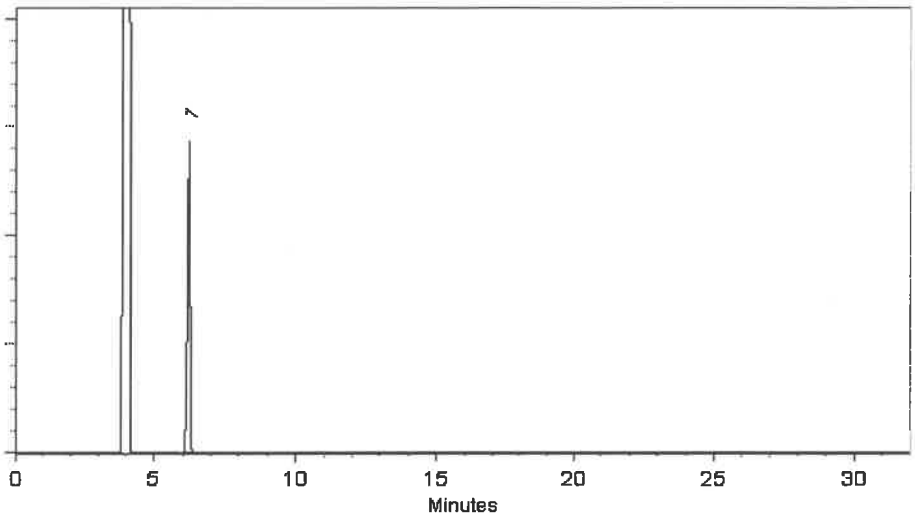
Inj. Temp:
200°C

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

Zoey Rec 01/08/21

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.)

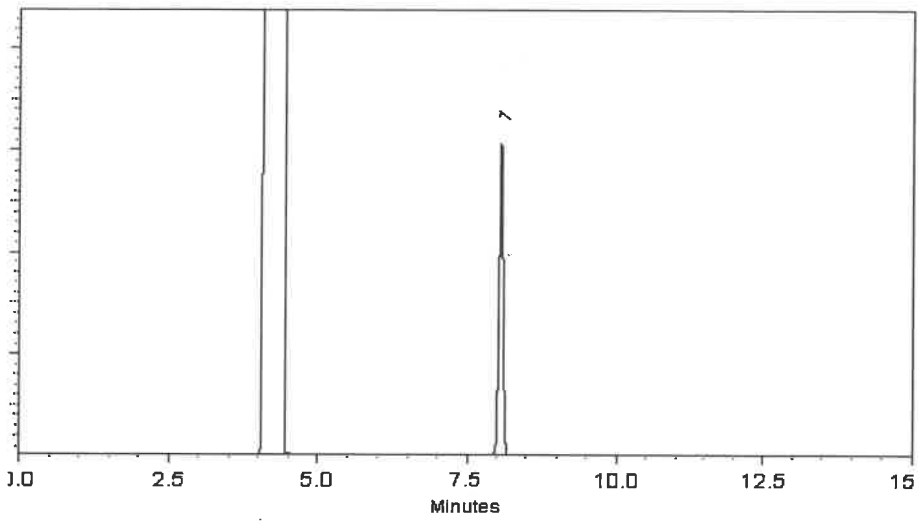
Inj. Temp:
200°C

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.

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.)

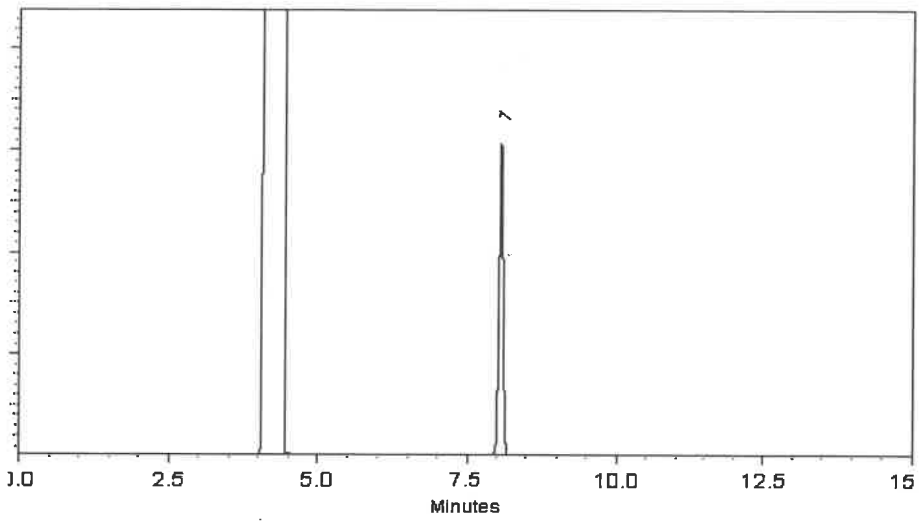
Inj. Temp:
200°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial

CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

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.:** A0223904

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 : March 31, 2028 **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-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

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

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
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	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
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	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Lee 05/19/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

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. : 30489 **Lot No.:** A0222076

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 : August 31, 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	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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

Lee 05/19/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

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. : 30489 **Lot No.:** A0222076

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 : August 31, 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	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

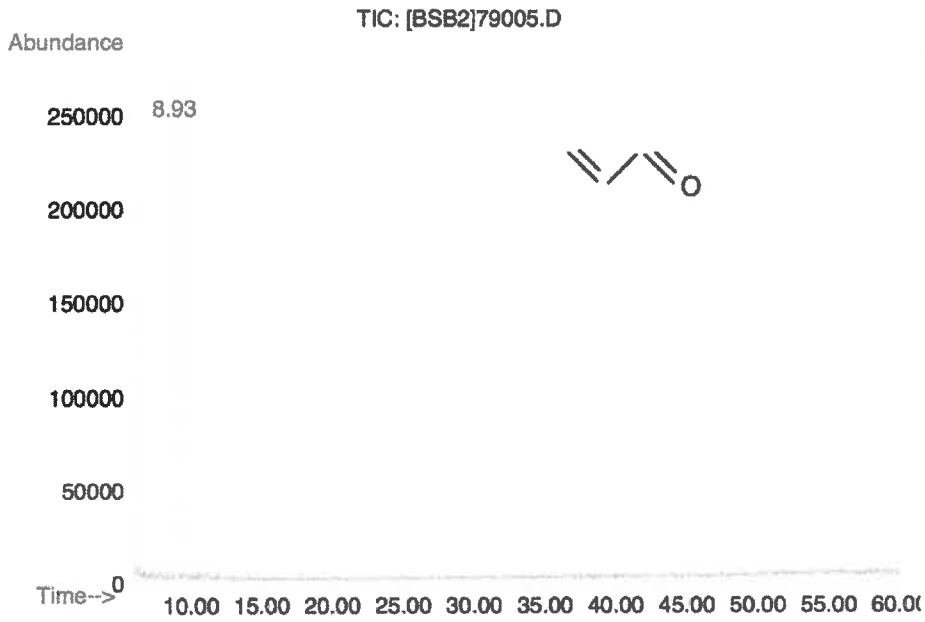
V15064 to V15068

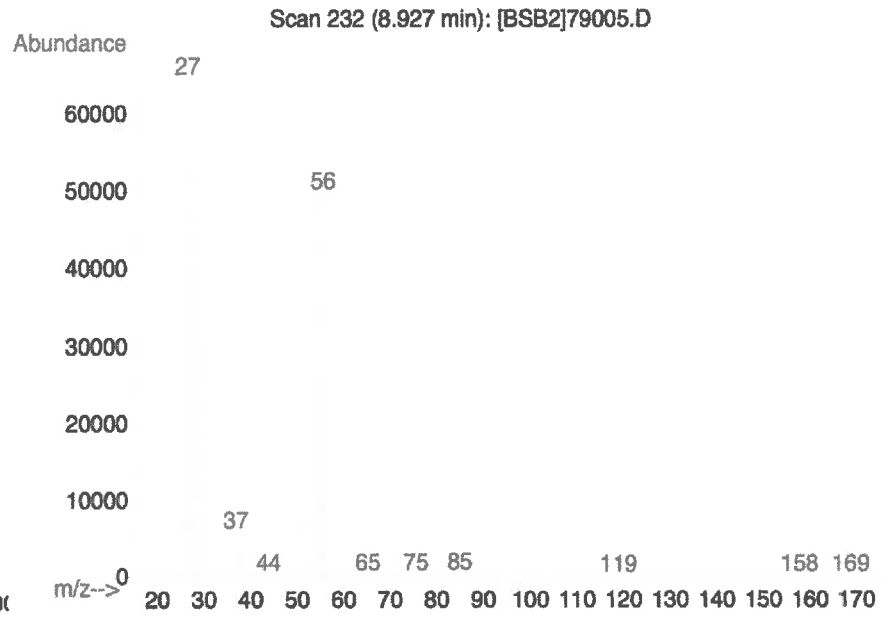
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
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	0.05176	5009.9	52.6	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

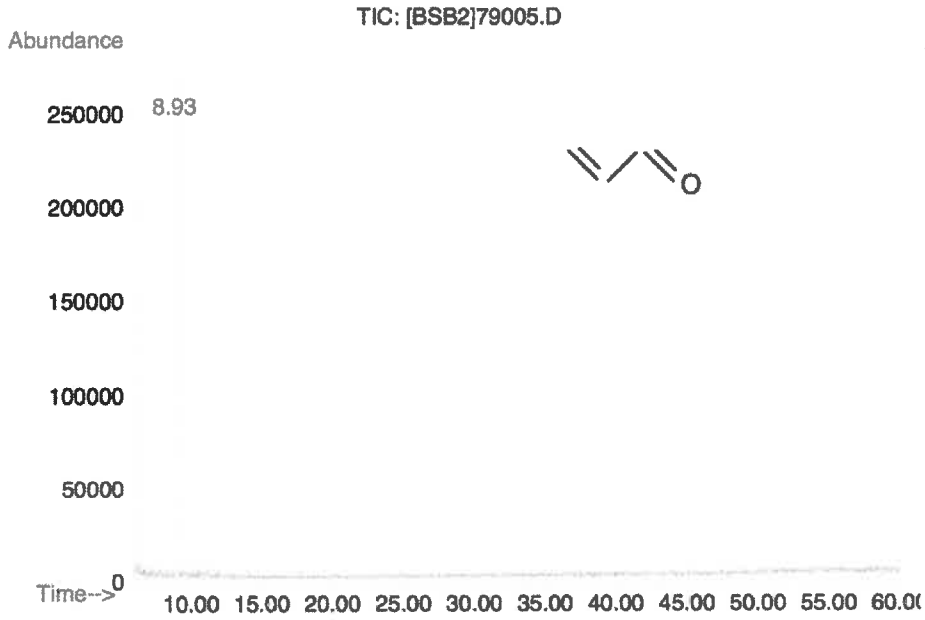
V15064 to V15068

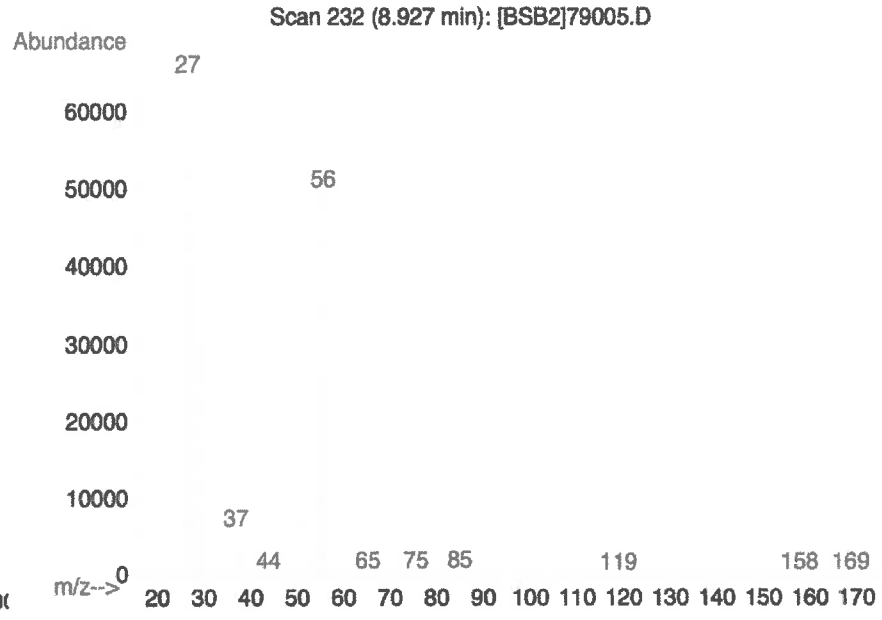
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
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	0.05176	5009.9	52.6	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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).**

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

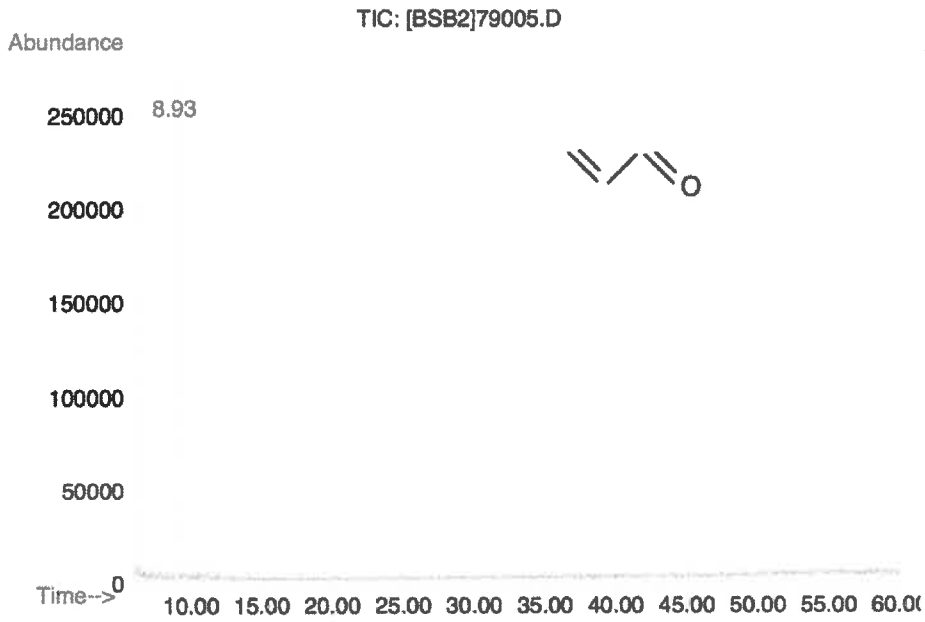
V15064 to V15068

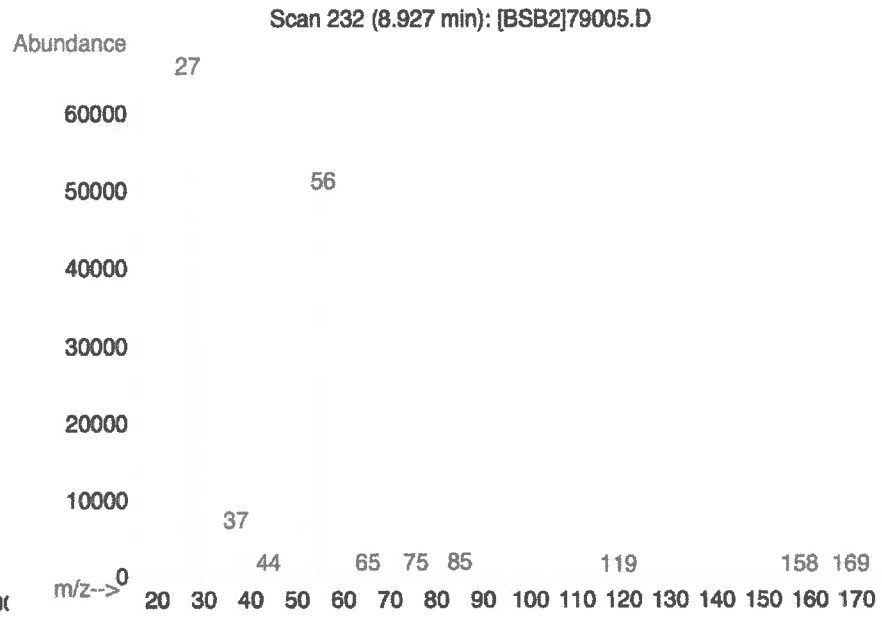
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
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	0.05176	5009.9	52.6	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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).

Rev 1.0, 2/25/2025

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q3141

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-184
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

1	2	3	4	5	6	7	8	9
VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-184-TB-20250917	QA		X	9/17/25	9:00	2	2										Trip Blank
2.	BP-VPB-184-EB-20250918	QA		X	9/18/25	10:30	3	2	1									Equipment Blank
3.	BP-VPB-184-GW-60-62	AQ		X	9/17/25	10:11	3	2	1									
4.	BP-VPB-184-GW-100-102	AQ		X	9/17/25	12:50	3	3										
5.	BP-VPB-184-GW-150-152	AQ		X	9/18/25	9:45	3	2	1									
6.	BP-VPB-184-GW-200-202	AQ		X	9/18/25	12:25	3	3										
7.	BP-VPB-184-GW-220-222	AQ		X	9/18/25	14:30	3	2	1									
8.																		
9.																		
10.																		

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	9/18/25 1530	1. 1537 9-18-25
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME 1405	RECEIVED FOR LAB BY
3.	9-18-25	3.

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.1 C
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in
Cooler?:
Comments: 5 Day TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list
10-DAY TAT - For 1,4 Dioxane (8270 SIM)

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3141 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 9/18/2025 3:41:00 PM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 9/18/2025 7:05:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3141-01	BP-VPB-184-TB-20250917	Water	09/17/2025	09:00					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3141-02	BP-VPB-184-EB-20250918	Water	09/18/2025	10:30					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3141-03	BP-VPB-184-GW-60-62	Water	09/17/2025	10:11					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3141-04	BP-VPB-184-GW-100-102	Water	09/17/2025	12:50					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3141-05	BP-VPB-184-GW-150-152	Water	09/18/2025	09:45					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3141-06	BP-VPB-184-GW-200-202	Water	09/18/2025	12:25					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3141-07	BP-VPB-184-GW-220-222	Water	09/18/2025	14:30					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3141 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 9/18/2025 3:41:00 PM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 9/18/2025 7:05:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : _____
Date / Time : 9/19/25 1230

Received By : _____
Date / Time : 09/19/25 12:27
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.934	65	41500	10.583	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 21.160%#				
35) Dibromofluoromethane	5.367	113	31188	10.300	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 20.600%#				
50) Toluene-d8	8.628	98	103865	9.913	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 19.820%#				
62) 4-Bromofluorobenzene	11.061	95	47321	11.900	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 23.800%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l		96
3) Chloromethane	1.300	50	3006	0.897	ug/l	#	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l		95
5) Bromomethane	1.624	94	2304	1.107	ug/l		99
6) Chloroethane	1.697	64	2134	0.973	ug/l		95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l		88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l		98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l		93
10) Methyl Iodide	2.459	142	3509	0.790	ug/l	#	86
11) Tert butyl alcohol	2.934	59	1850	4.236	ug/l	#	72
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l	#	80
13) Acrolein	2.239	56	1440	3.578	ug/l	#	65
14) Allyl chloride	2.666	41	5885	0.974	ug/l		94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l		97
16) Acetone	2.380	43	8444	4.953	ug/l		99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l	#	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l	#	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l		93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l		95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l	#	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l		97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l		95
25) 2-Butanone	4.550	43	9105	4.281	ug/l	#	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l		77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l		96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l	#	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l		98
30) Chloroform	5.074	83	5093	0.810	ug/l		86
31) Cyclohexane	5.458	56	4668	0.901	ug/l		90
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l	#	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l	#	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l	#	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l		95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l		94
40) Benzene	6.025	78	12012	0.894	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l	#	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l		80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l		94
44) Trichloroethene	7.110	130	2677	0.824	ug/l		78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l		100
46) Dibromomethane	7.574	93	2240	0.895	ug/l		94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l	#	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l	#	87
49) 1,4-Dioxane	7.653	88	404	10.329	ug/l	#	52
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l		95
52) Toluene	8.708	92	7595	0.917	ug/l		92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l	#	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l	#	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l		95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l	#	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l		99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l		98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l		87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l		96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l		83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l	#	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l		98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l		99
69) o-Xylene	10.622	106	4734	0.816	ug/l		94
70) Styrene	10.640	104	8377	0.824	ug/l		96
71) Bromoform	10.787	173	1816	0.755	ug/l	#	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l		96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l		96
76) 1,2,3-Trichloropropane	11.225	75	4568	1.117	ug/l		80
77) Bromobenzene	11.183	156	3069	0.811	ug/l		98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l		99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.006	75	960	0.599	ug/l	#	95
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l		95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l		97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l		100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l		99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l		92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l		98
88) 1,4-Dichlorobenzene	11.951	146	5907	0.819	ug/l		98
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l		97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l		97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l		95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l		93
95) Naphthalene	13.756	128	10112	0.763	ug/l		98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

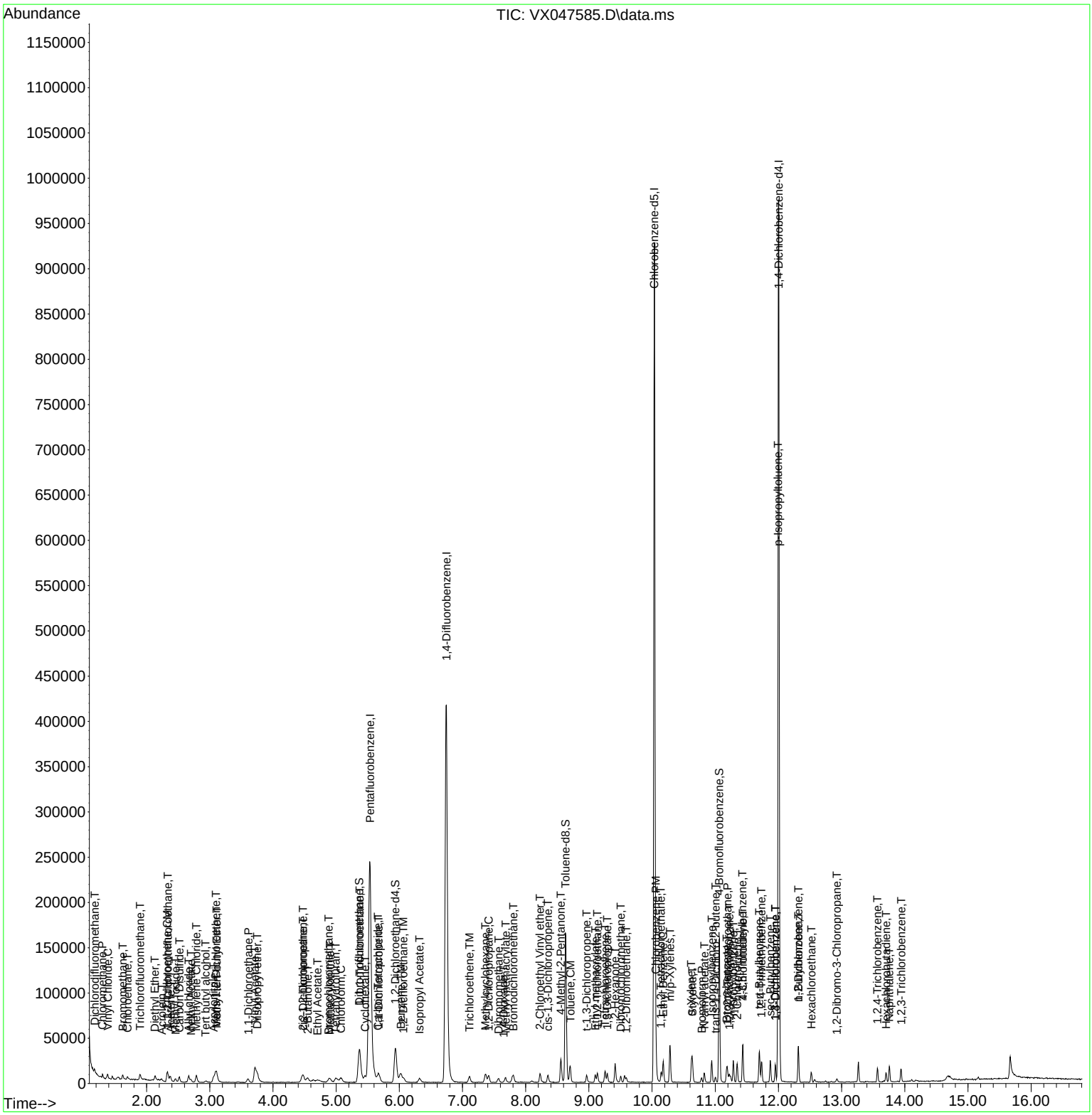
(#) = qualifier out of range (m) = manual integration (+) = signals summed

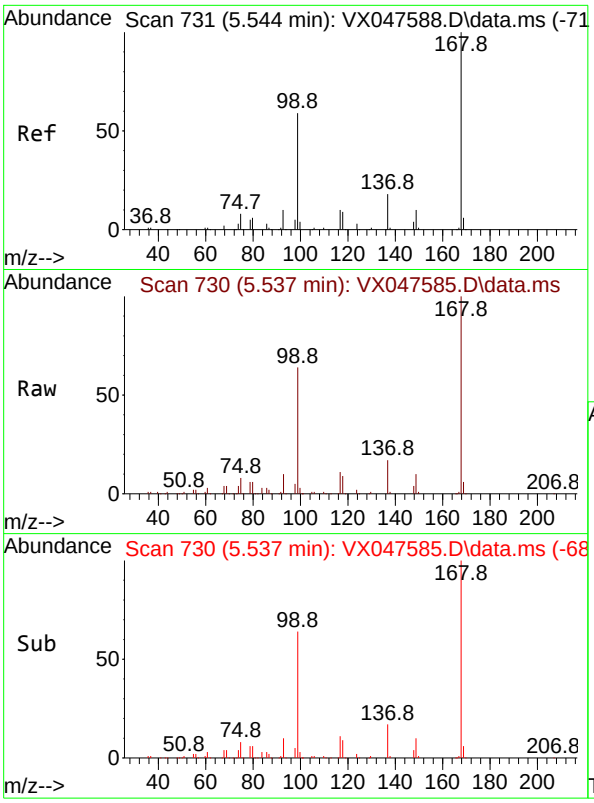
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



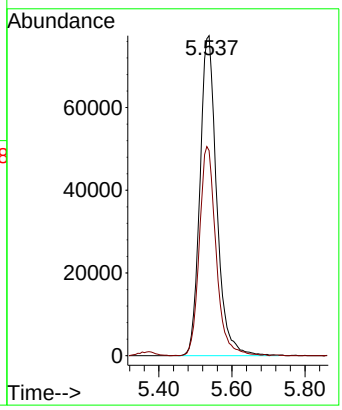


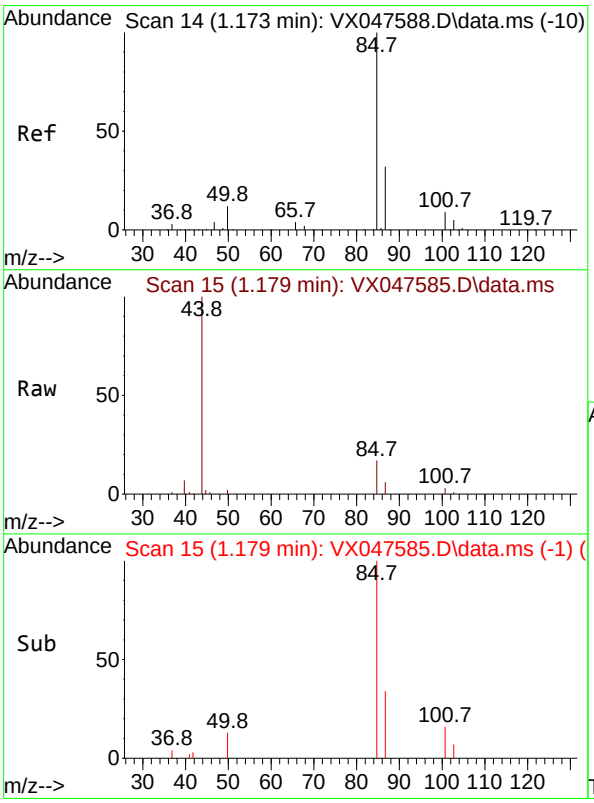
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 246348

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2

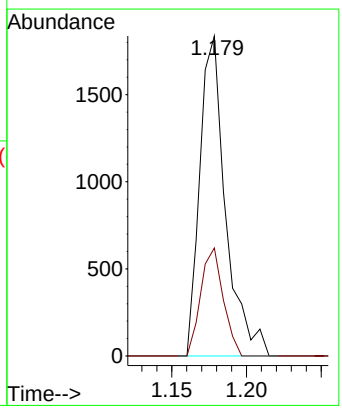


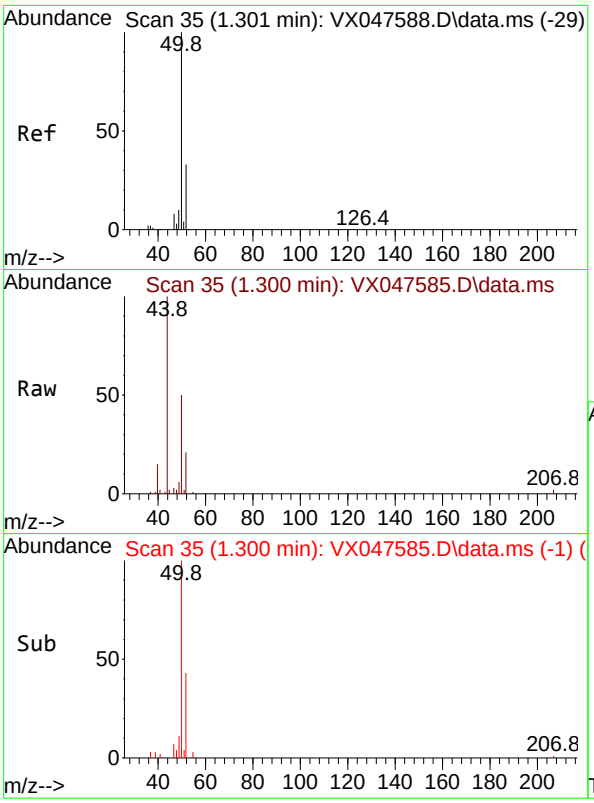


#2
Dichlorodifluoromethane
Concen: 0.863 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 85 Resp: 2201

Ion	Ratio	Lower	Upper
85	100		
87	33.8	15.8	47.3



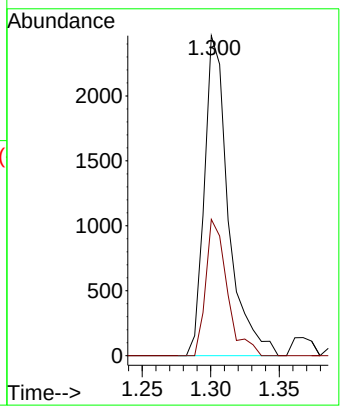


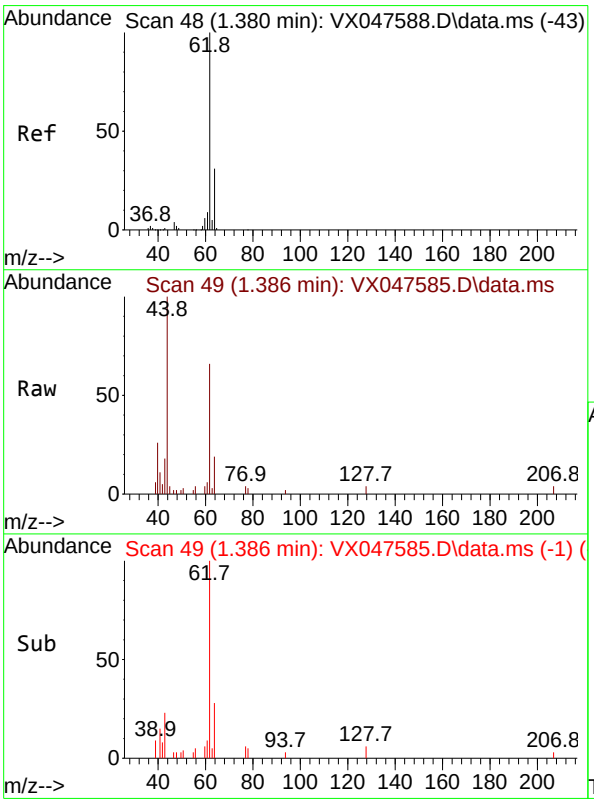
#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 3006

Ion	Ratio	Lower	Upper
50	100		
52	42.6	26.1	39.1#

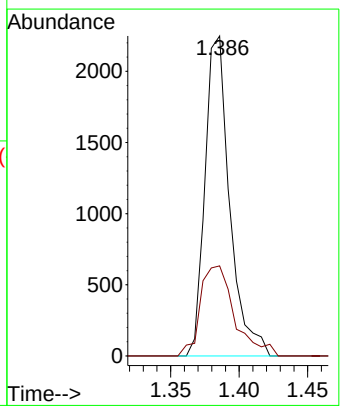


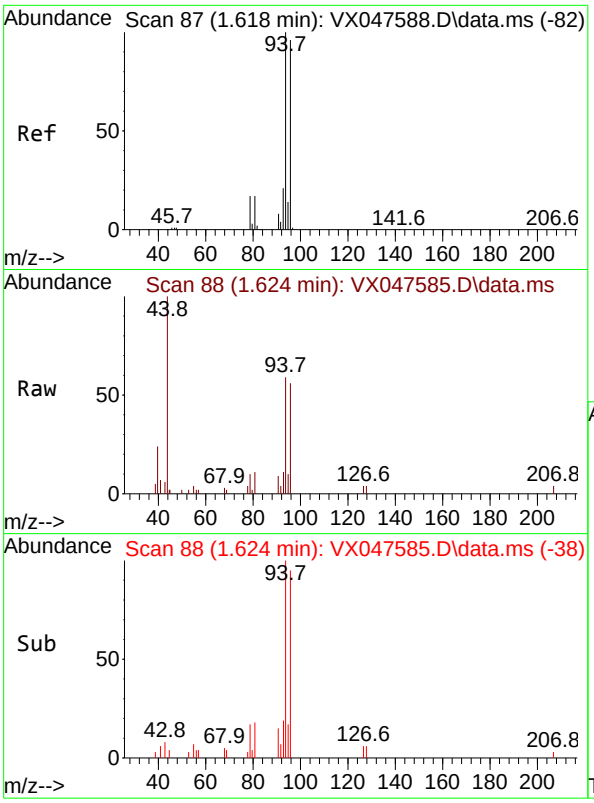


#4
Vinyl Chloride
Concen: 0.859 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 2818

Ion	Ratio	Lower	Upper
62	100		
64	28.2	24.9	37.3



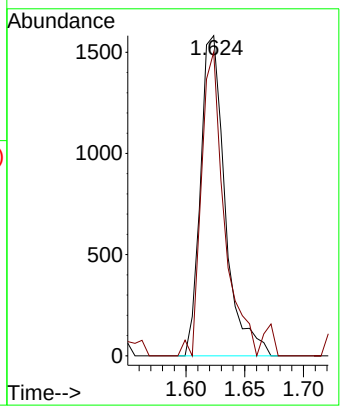


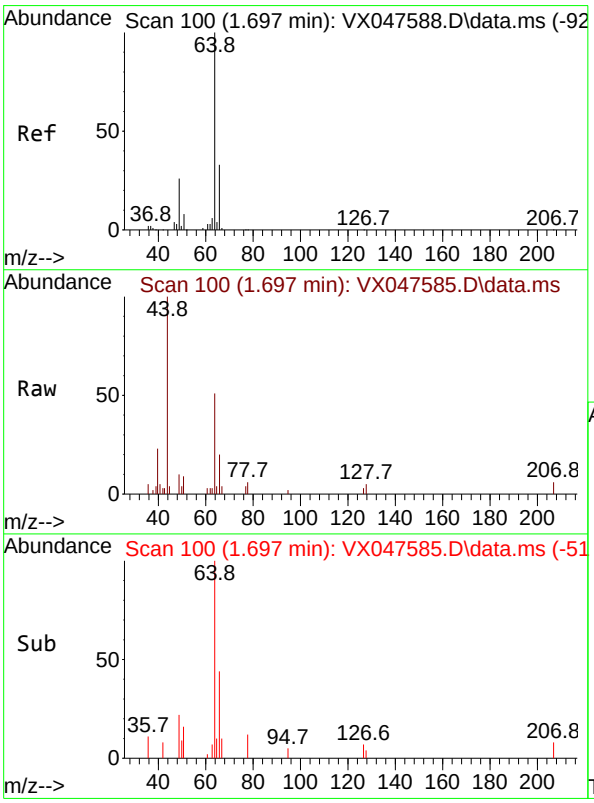
#5
Bromomethane
Concen: 1.107 ug/l
RT: 1.624 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 2304

Ion	Ratio	Lower	Upper
94	100		
96	94.9	76.6	115.0

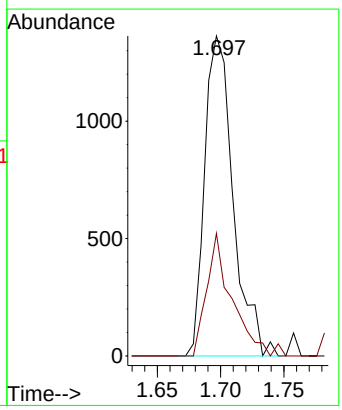


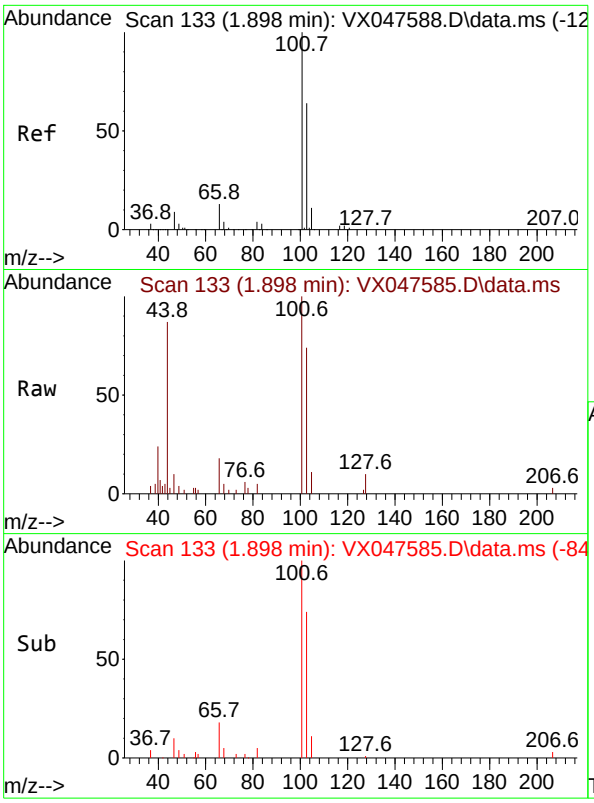


#6
Chloroethane
Concen: 0.973 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 64 Resp: 2134

Ion	Ratio	Lower	Upper
64	100		
66	35.4	26.1	39.1



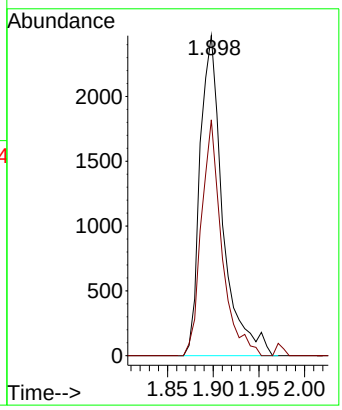


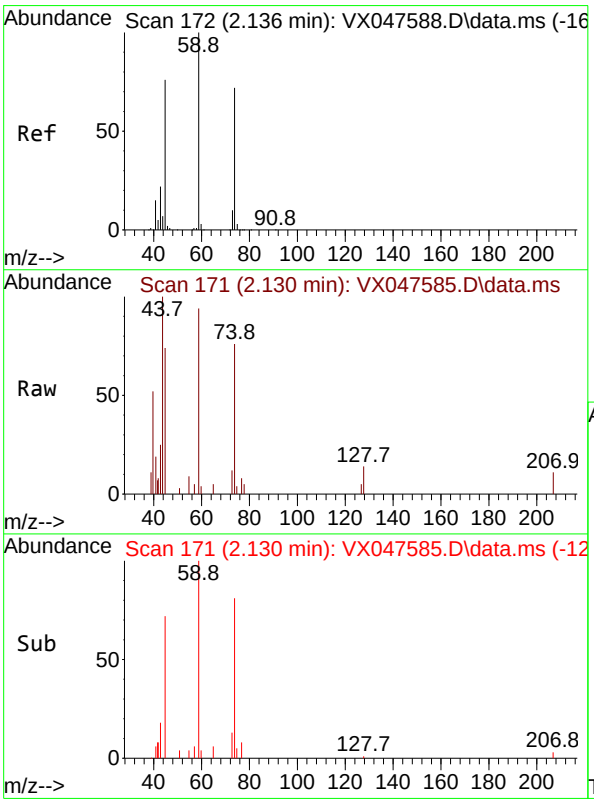
#7
Trichlorofluoromethane
Concen: 0.874 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 4261

Ion	Ratio	Lower	Upper
101	100		
103	73.7	51.4	77.2

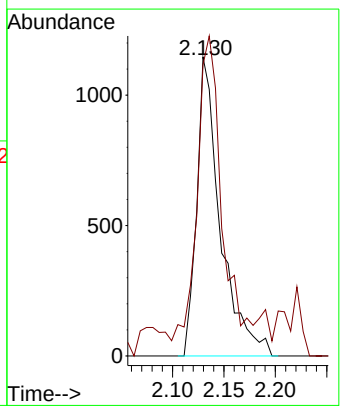


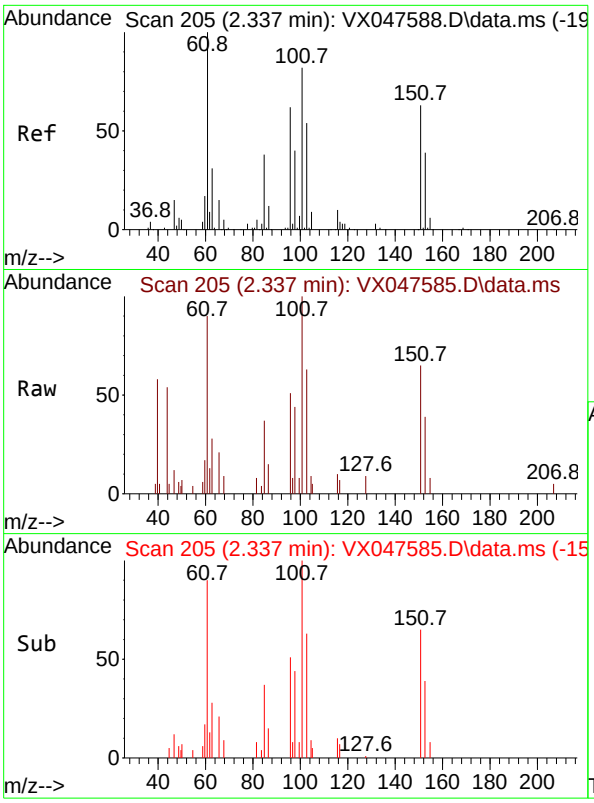


#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 74 Resp: 1831

Ion	Ratio	Lower	Upper
74	100		
45	102.2	52.3	156.8



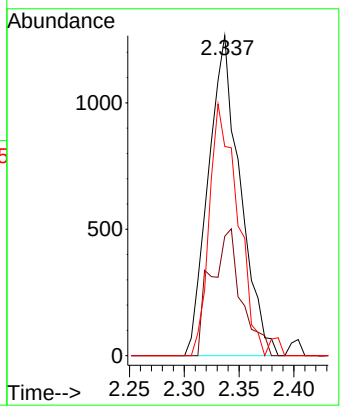


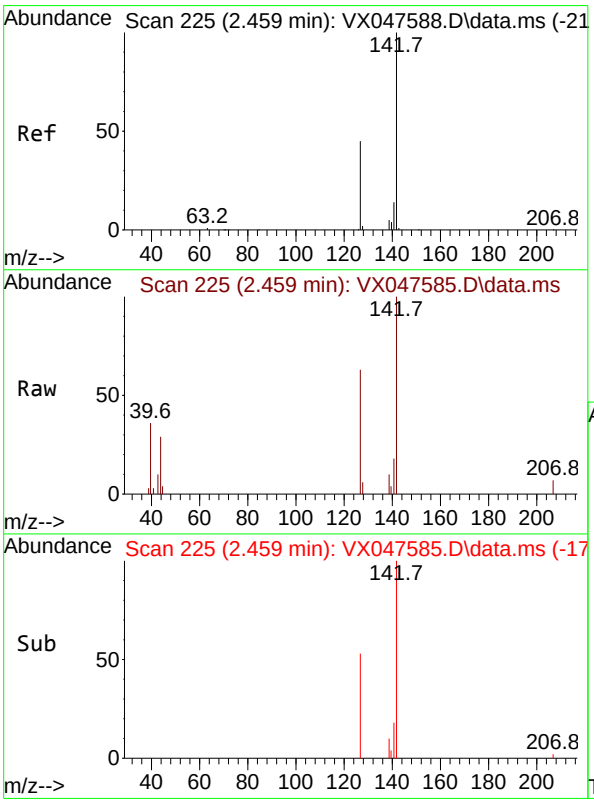
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 2555

Ion	Ratio	Lower	Upper
101	100		
85	37.8	35.5	53.3
151	69.9	59.4	89.0

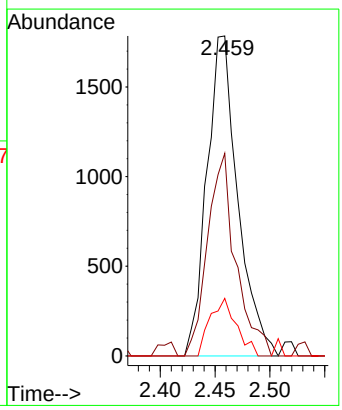


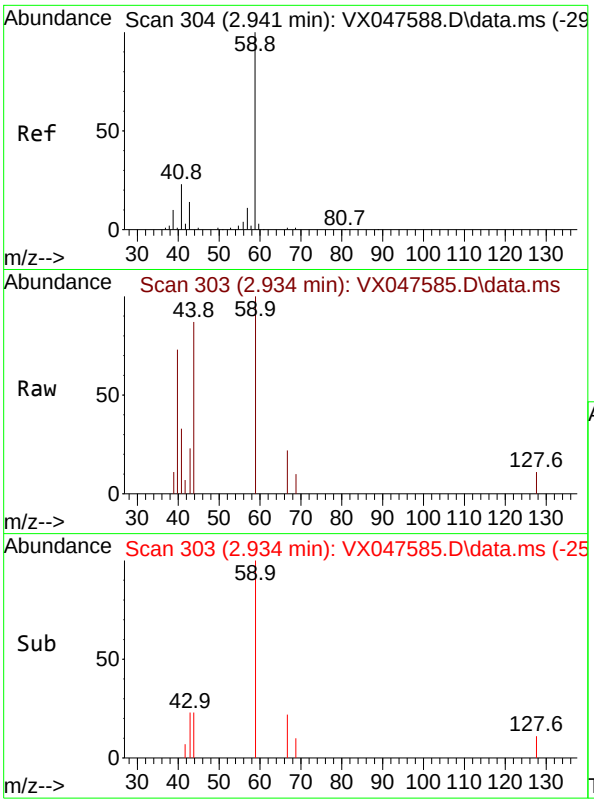


#10
Methyl Iodide
Concen: 0.790 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:142 Resp: 3509

Ion	Ratio	Lower	Upper
142	100		
127	57.7	37.2	55.8#
141	15.3	11.4	17.0



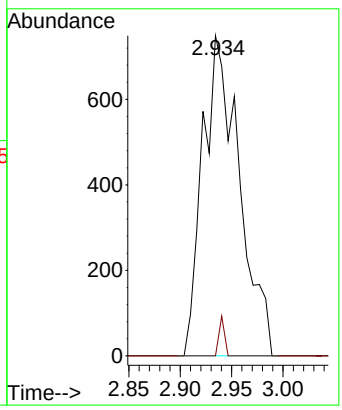


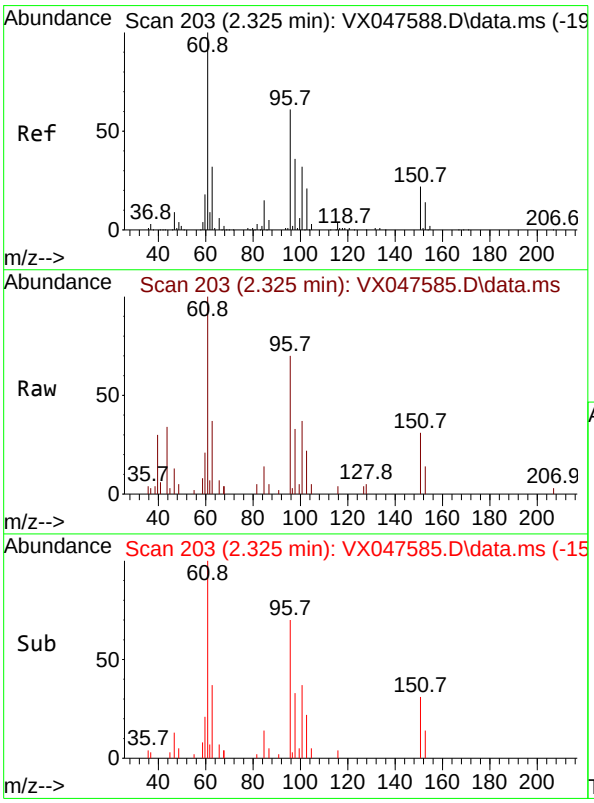
#11
Tert butyl alcohol
Concen: 4.236 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 1850

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

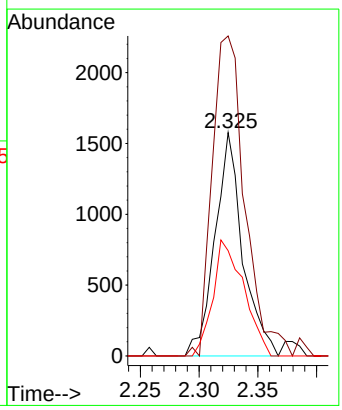


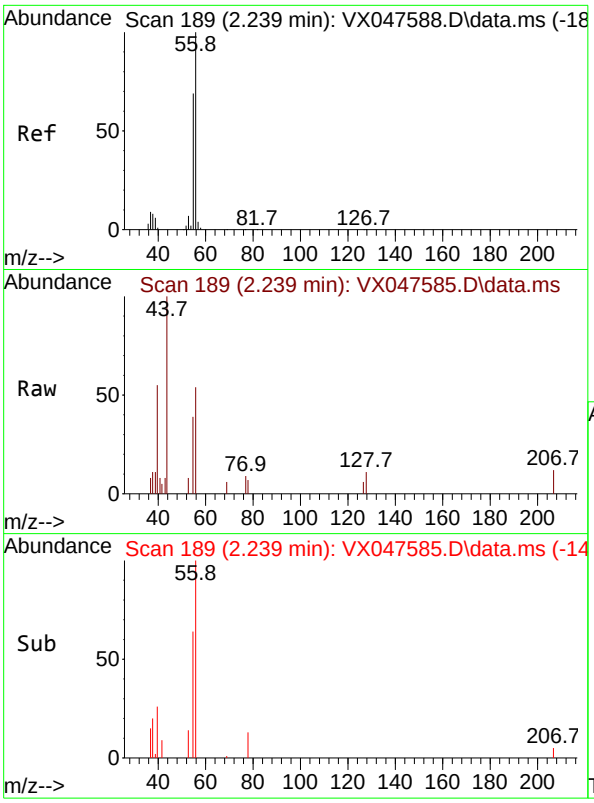


#12
1,1-Dichloroethene
Concen: 0.886 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 2594

Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5#



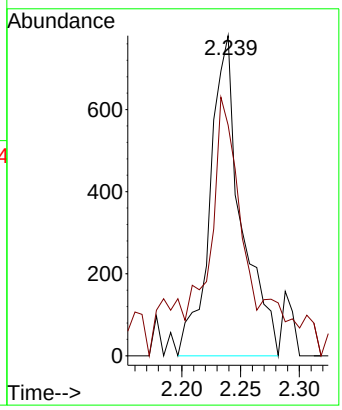


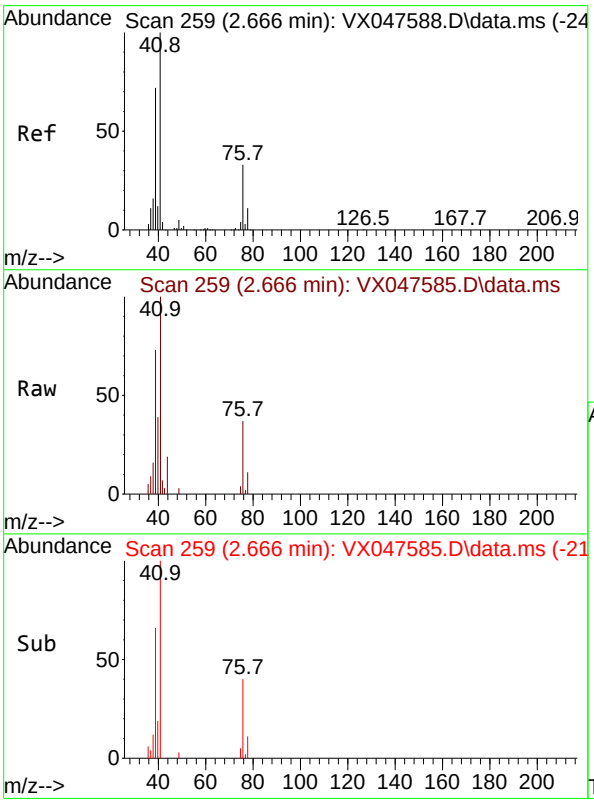
#13
Acrolein
Concen: 3.578 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1440

Ion	Ratio	Lower	Upper
56	100		
55	100.3	57.2	85.8#

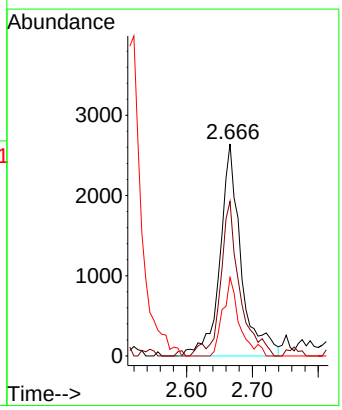


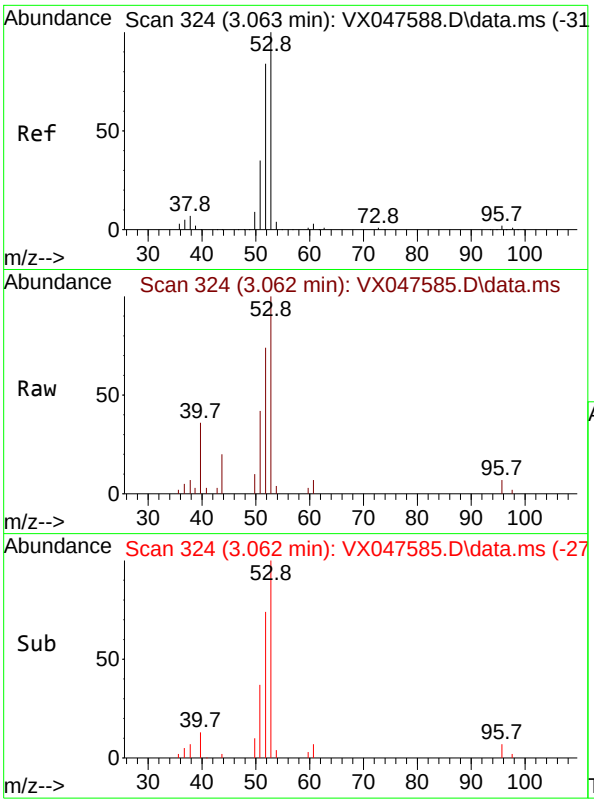


#14
Allyl chloride
Concen: 0.974 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 5885

Ion	Ratio	Lower	Upper
41	100		
39	63.3	54.7	82.1
76	29.3	25.7	38.5



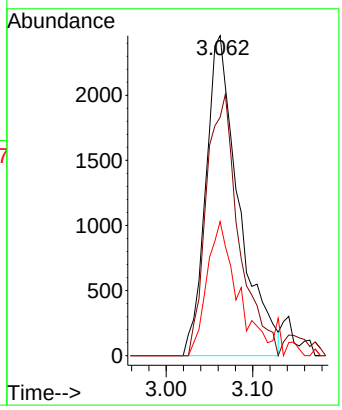


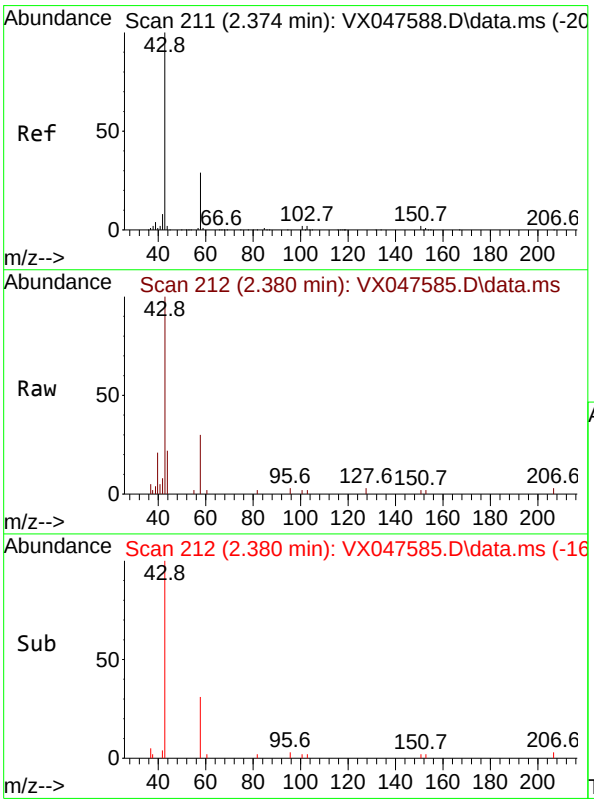
#15
Acrylonitrile
Concen: 4.018 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 6500

Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.4	99.6
51	38.7	29.5	44.3

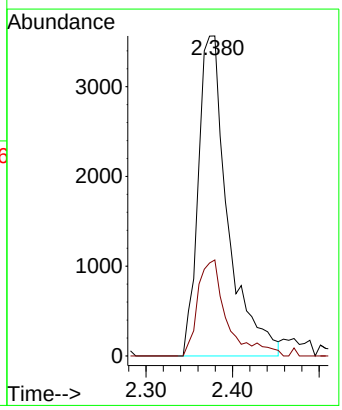


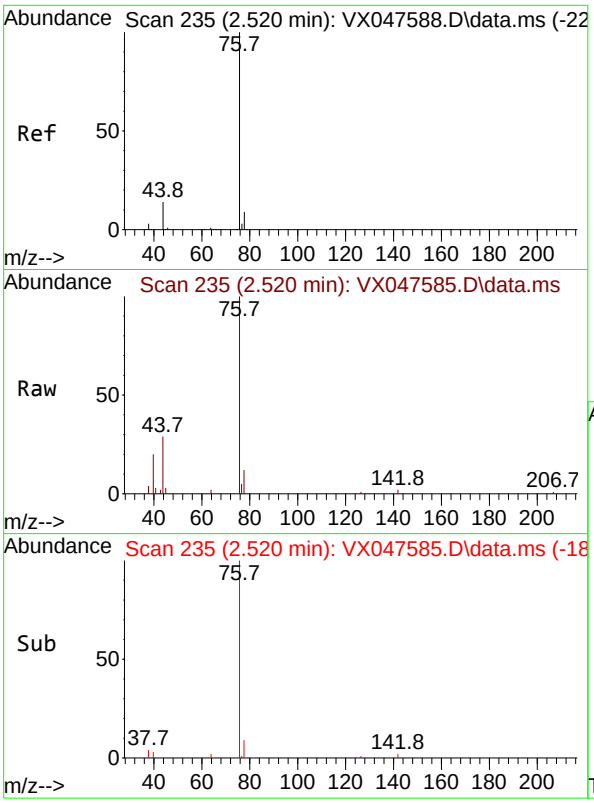


#16
Acetone
Concen: 4.953 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 8444

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0



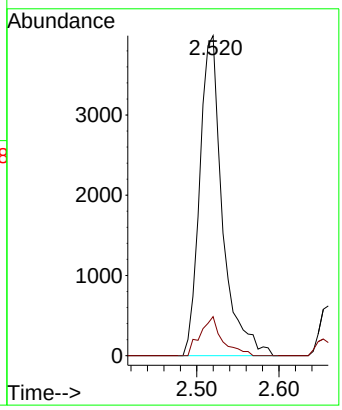


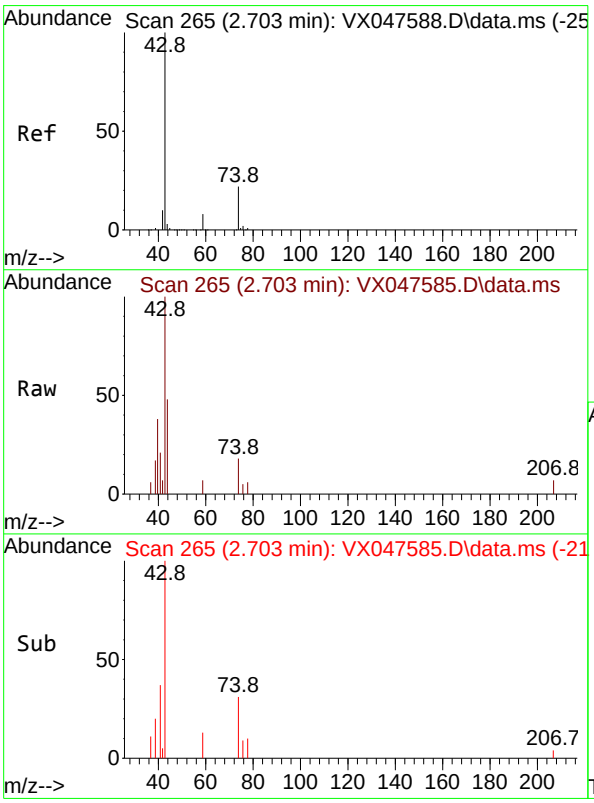
#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 7662

Ion	Ratio	Lower	Upper
76	100		
78	11.6	6.8	10.2#

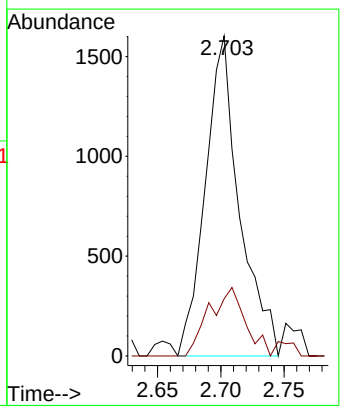


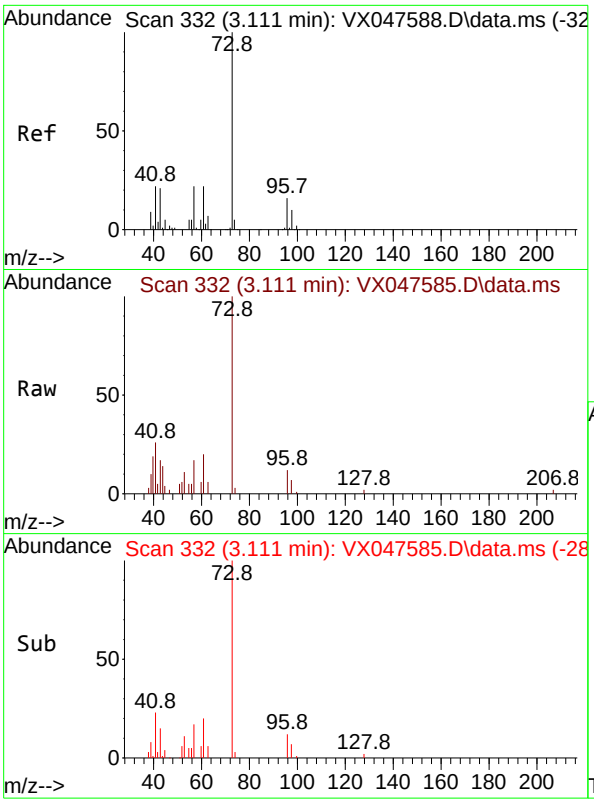


#18
Methyl Acetate
Concen: 0.794 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3013

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



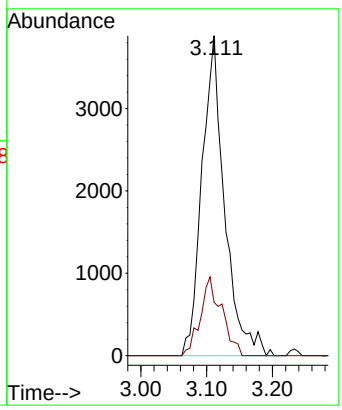


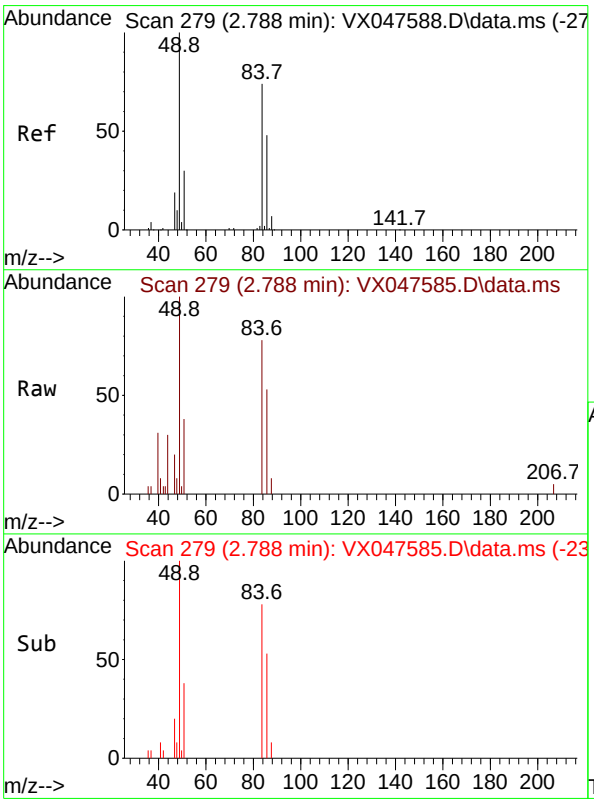
#19
Methyl tert-butyl Ether
Concen: 0.869 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 9281

Ion	Ratio	Lower	Upper
73	100		
57	16.7	17.4	26.2#

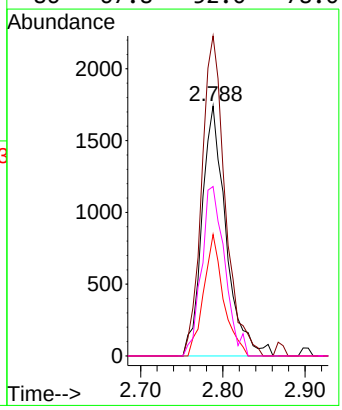


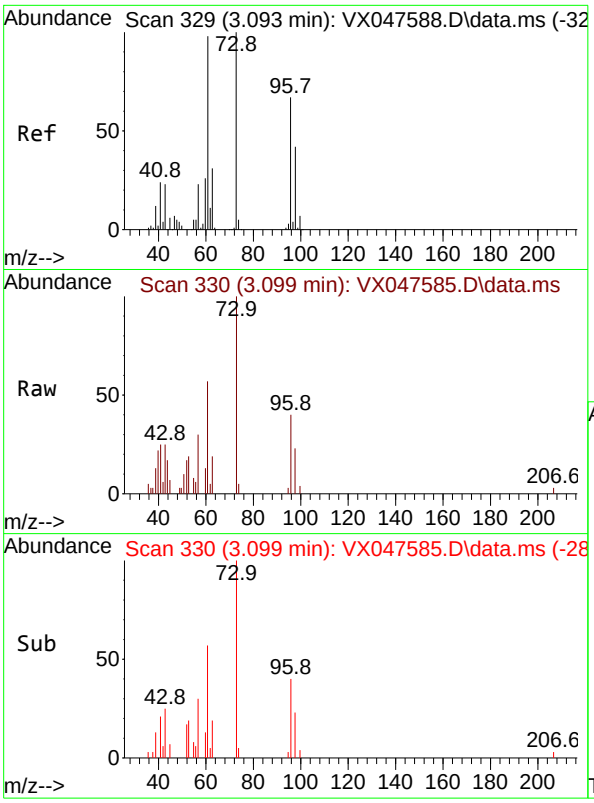


#20
Methylene Chloride
Concen: 0.981 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 84 Resp: 3540

Ion	Ratio	Lower	Upper
84	100		
49	128.0	108.6	162.8
51	48.6	32.6	48.8
86	67.8	52.0	78.0



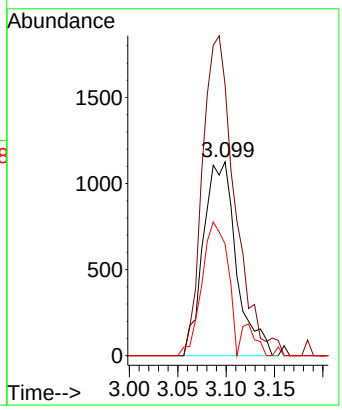


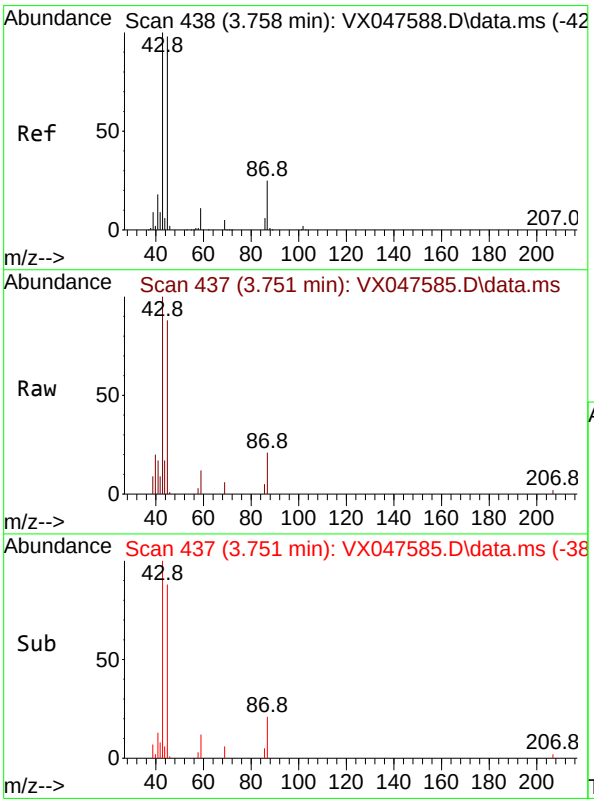
#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2676

Ion	Ratio	Lower	Upper
96	100		
61	139.9	116.2	174.2
98	57.6	49.3	73.9

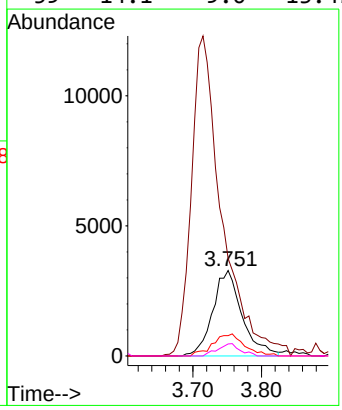


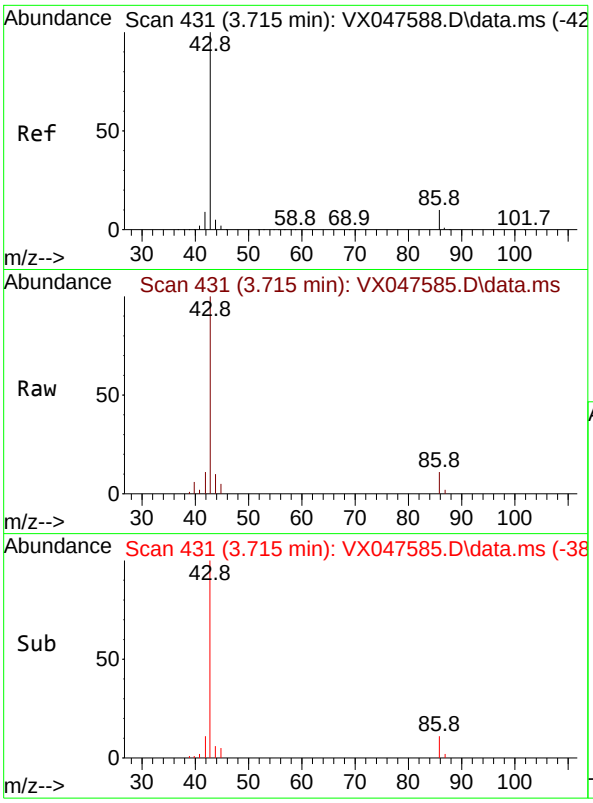


#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 45 Resp: 9738

Ion	Ratio	Lower	Upper
45	100		
43	117.9	81.0	121.4
87	23.7	20.3	30.5
59	14.1	9.0	13.4#



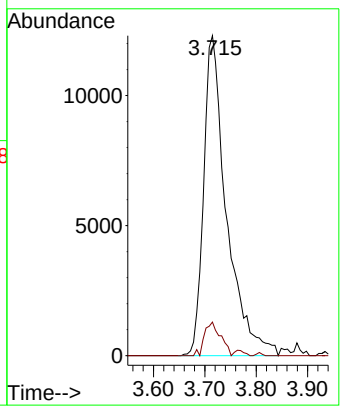


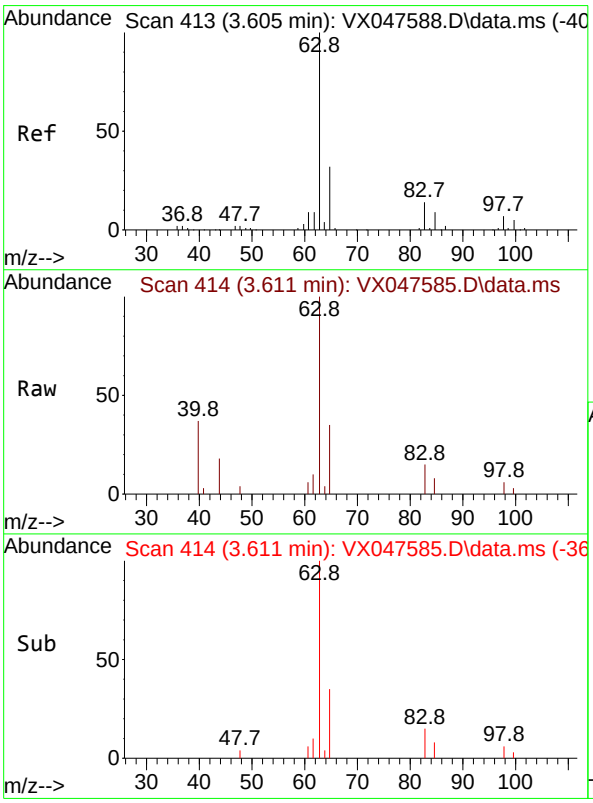
#23
Vinyl Acetate
Concen: 4.052 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 37962

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8

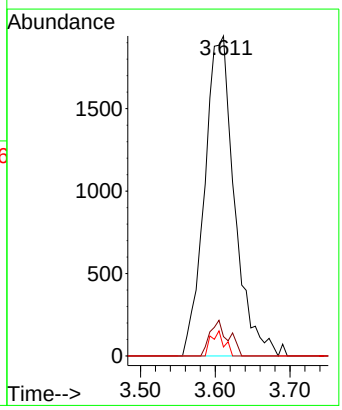


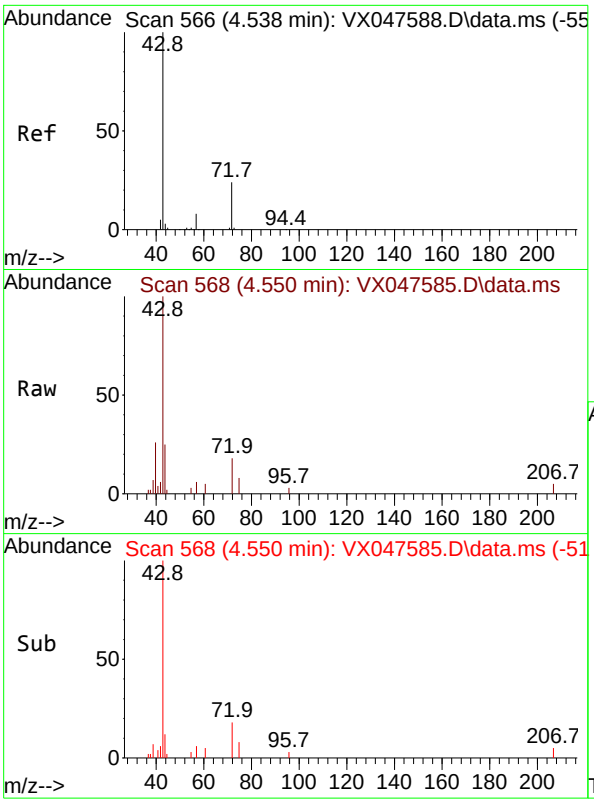


#24
1,1-Dichloroethane
Concen: 0.863 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 5372

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.8	11.2
100	2.8	2.3	6.9



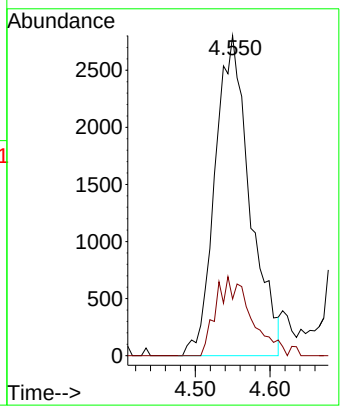


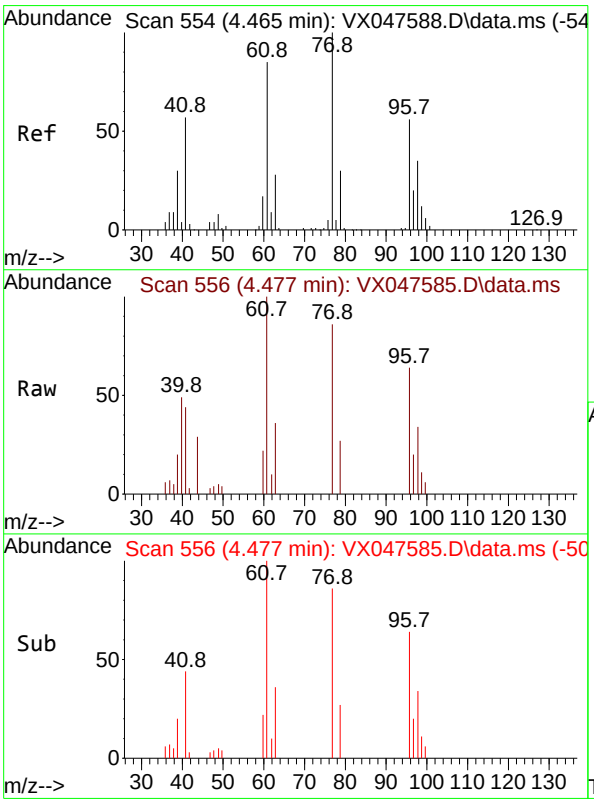
#25
2-Butanone
Concen: 4.281 ug/l
RT: 4.550 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 9105

Ion	Ratio	Lower	Upper
43	100		
72	16.3	20.1	30.1#

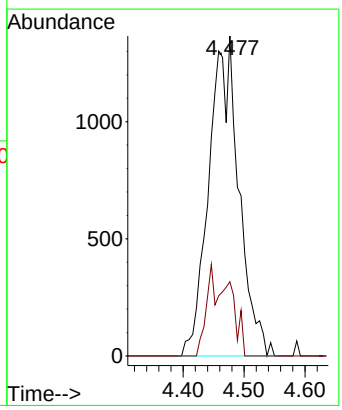


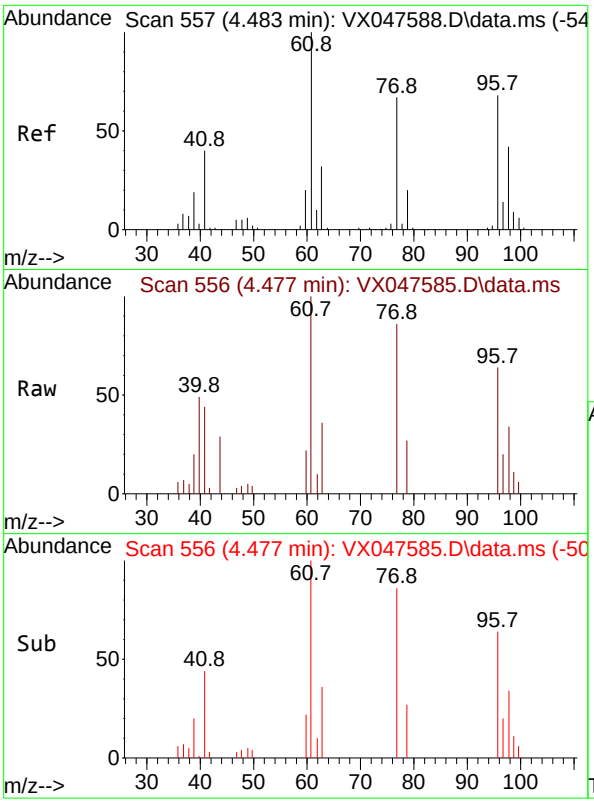


#26
2,2-Dichloropropane
Concen: 0.901 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 77 Resp: 4657

Ion	Ratio	Lower	Upper
77	100		
97	11.0	10.9	32.7



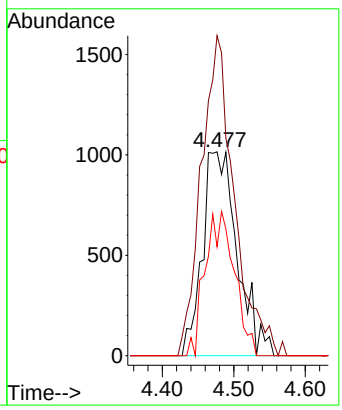


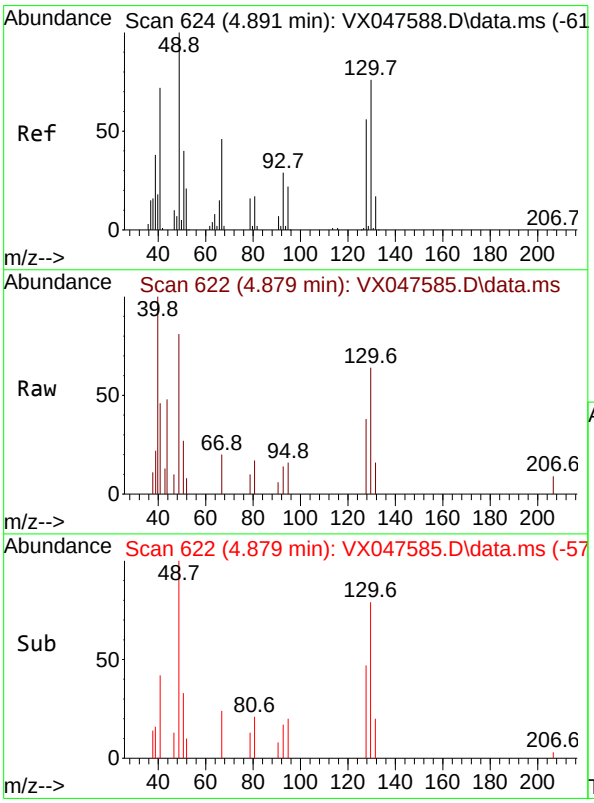
#27
cis-1,2-Dichloroethene
Concen: 0.891 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 3440

Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	303.2
98	59.4	0.0	127.8

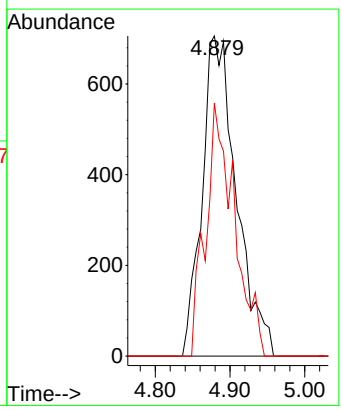


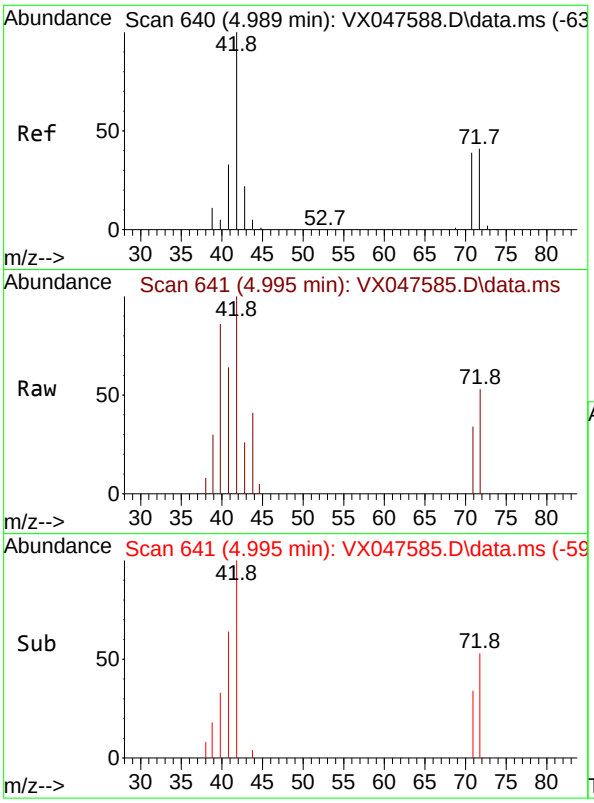


#28
Bromochloromethane
Concen: 0.829 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 49 Resp: 2251

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	66.2	57.8	86.8



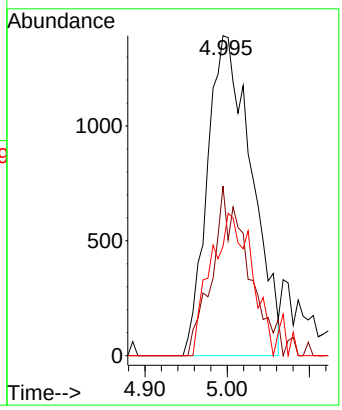


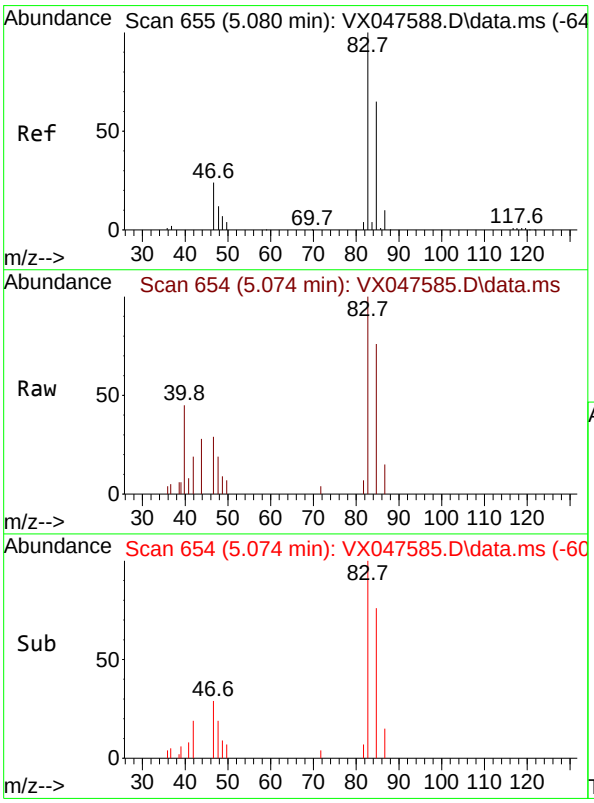
#29
Tetrahydrofuran
Concen: 4.072 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 5210

Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.2	51.2
71	41.3	31.9	47.9

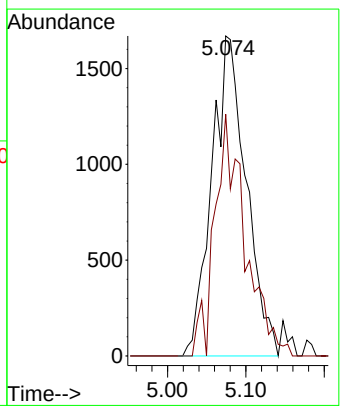


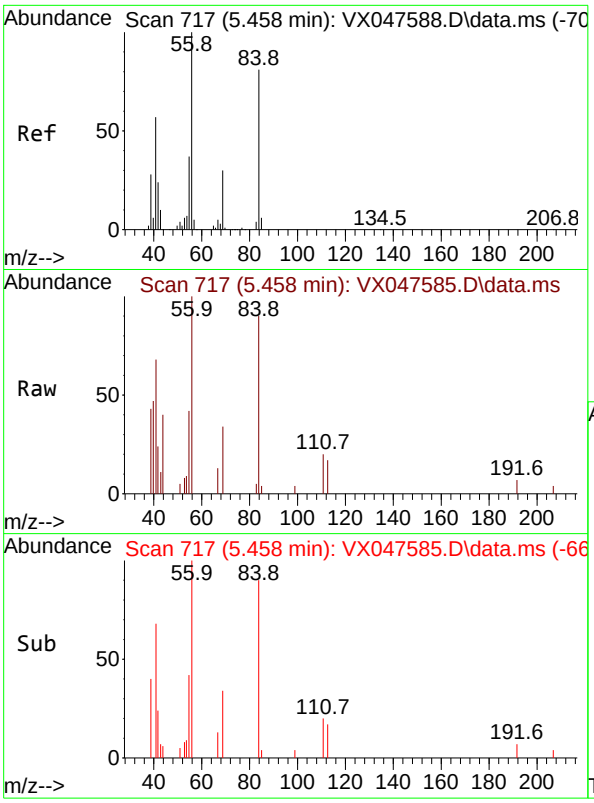


#30
Chloroform
Concen: 0.810 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 5093

Ion	Ratio	Lower	Upper
83	100		
85	75.6	51.8	77.6



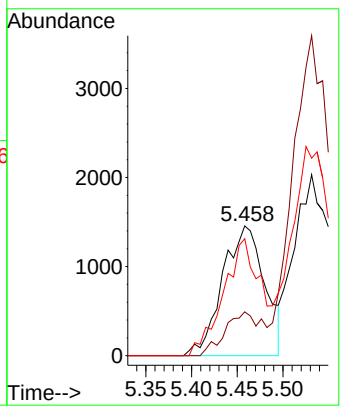


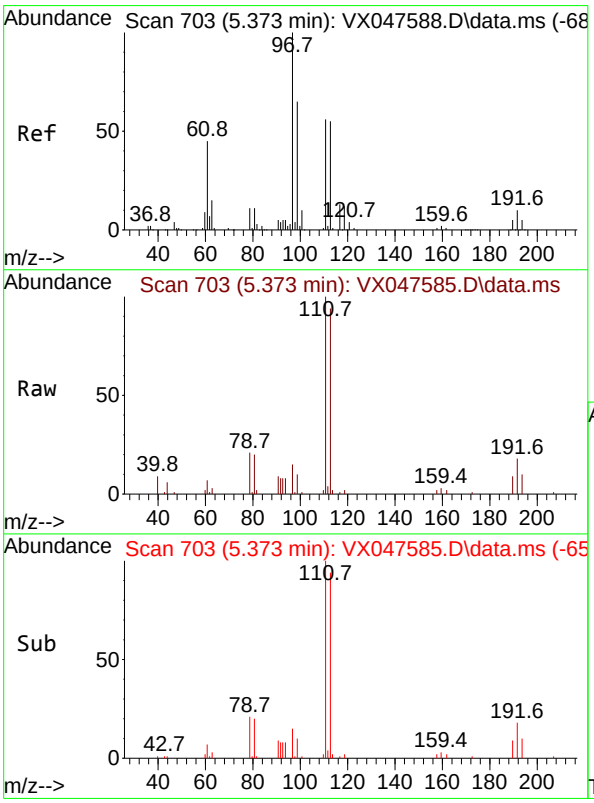
#31
Cyclohexane
Concen: 0.901 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 4668

Ion	Ratio	Lower	Upper
56	100		
69	33.8	23.8	35.8
84	90.0	64.6	97.0

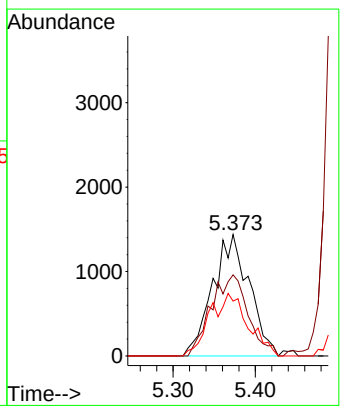


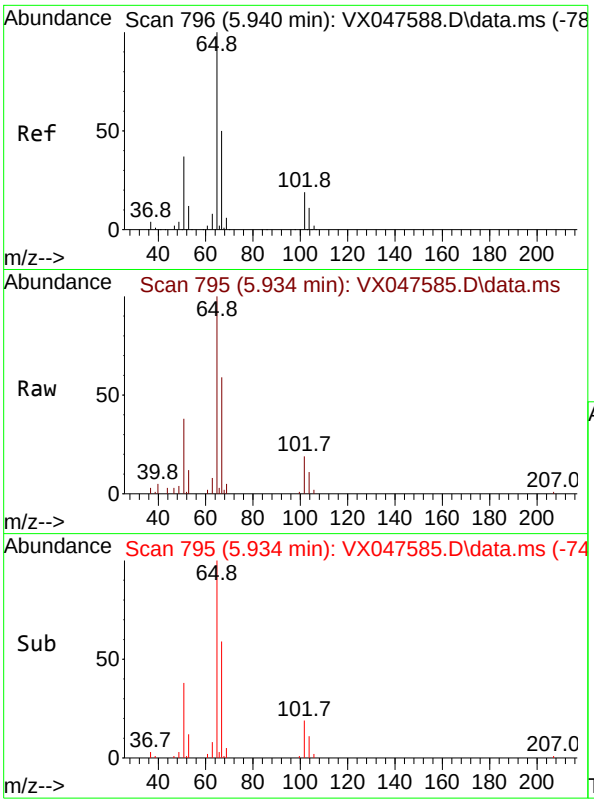


#32
1,1,1-Trichloroethane
Concen: 0.832 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 4439

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0#
61	36.2	35.8	53.8



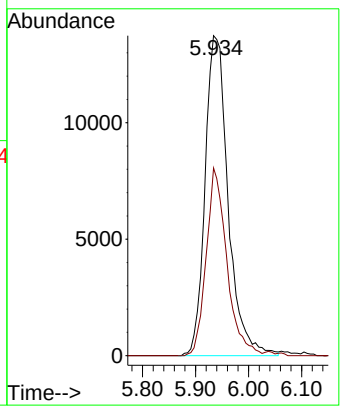


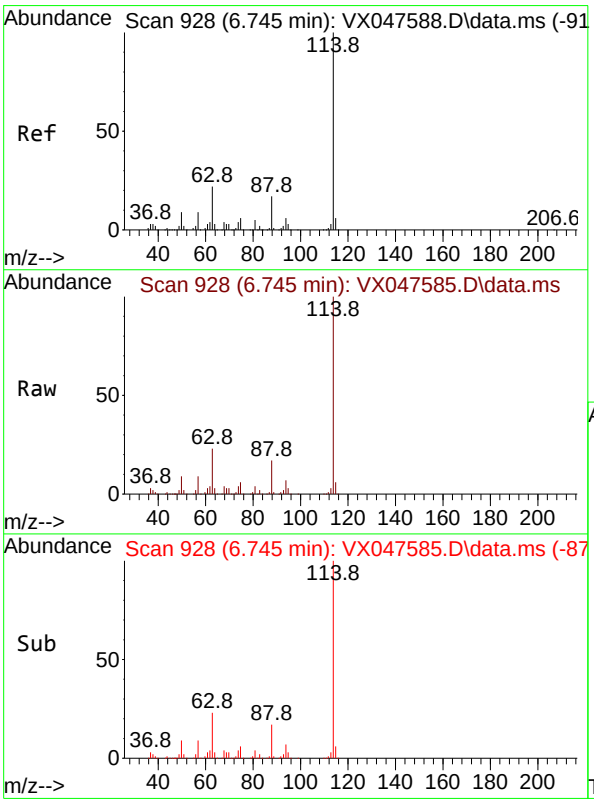
#33
1,2-Dichloroethane-d4
Concen: 10.583 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 41500

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.0

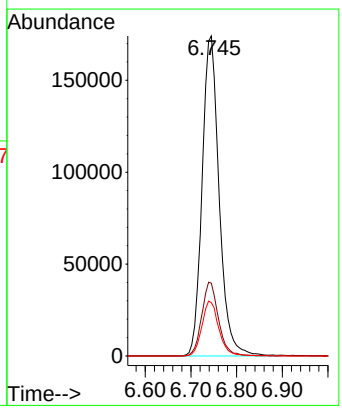


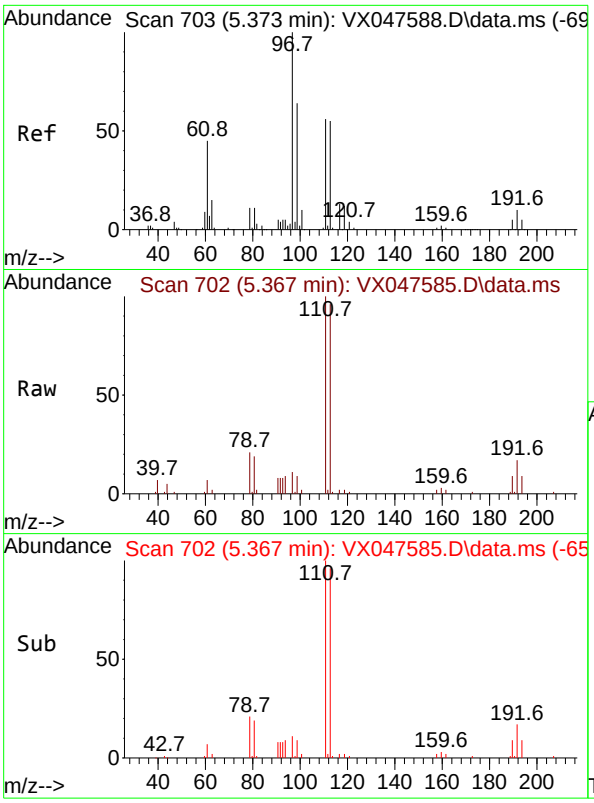


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:114 Resp: 451502

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	44.0
88	16.6	0.0	34.2



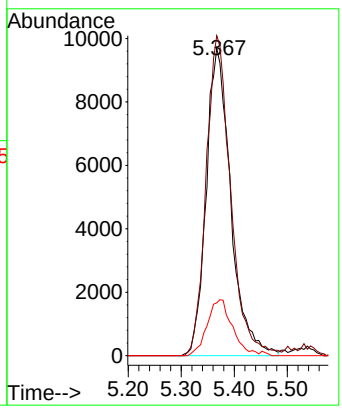


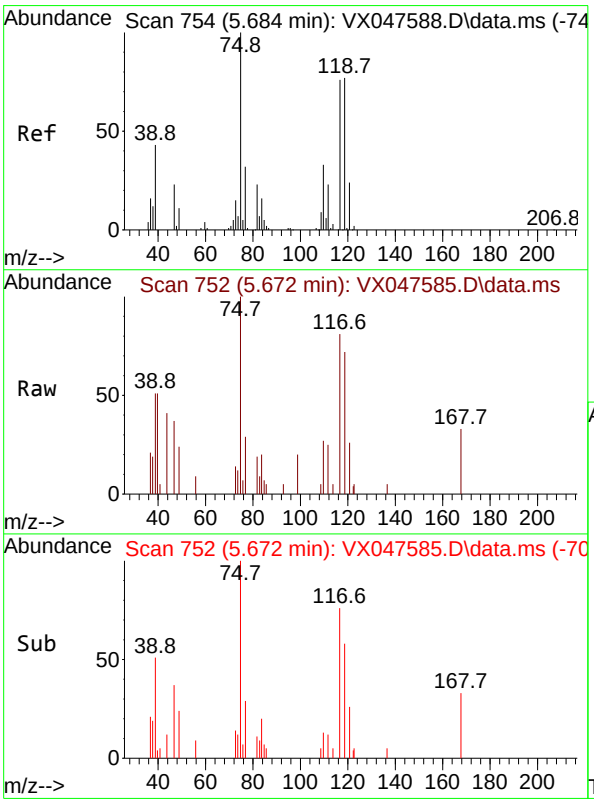
#35
Dibromofluoromethane
Concen: 10.300 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 31188

Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.9	121.3
192	18.6	14.2	21.4

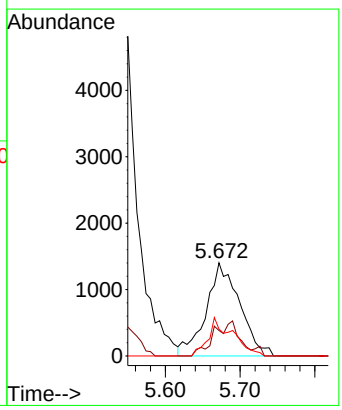


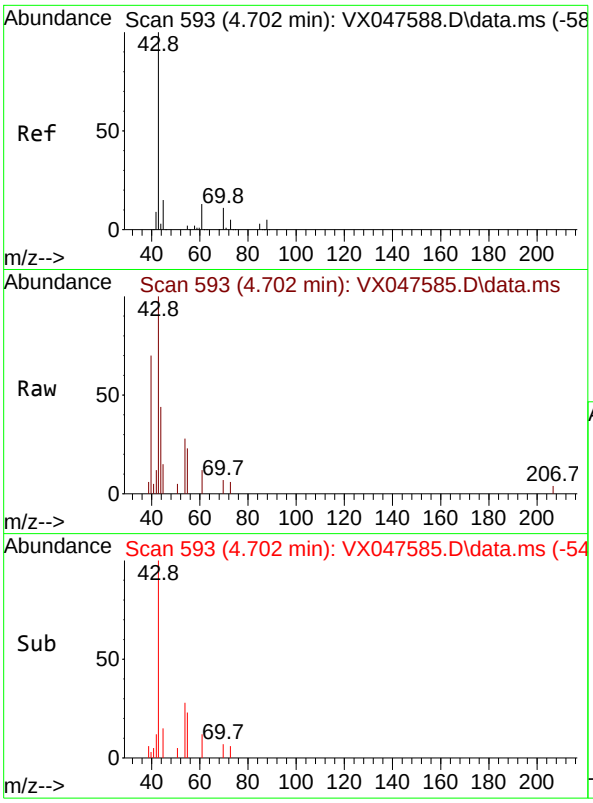


#36
1,1-Dichloropropene
Concen: 0.988 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4373

Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.7	50.1#
77	30.0	24.3	36.5



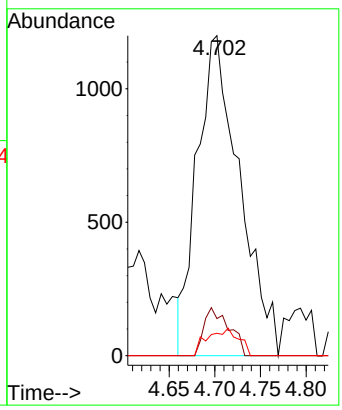


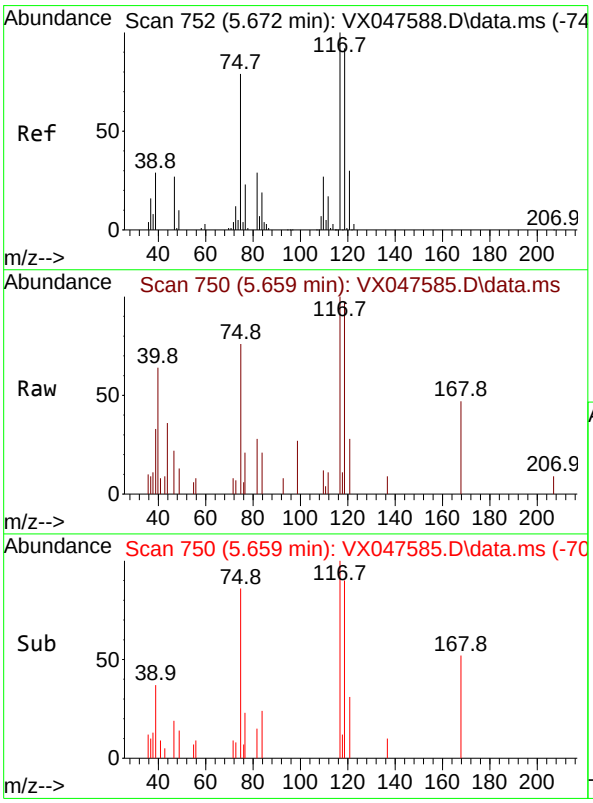
#37
Ethyl Acetate
Concen: 0.818 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
61	8.9	9.8	14.8#
70	6.2	7.9	11.9#

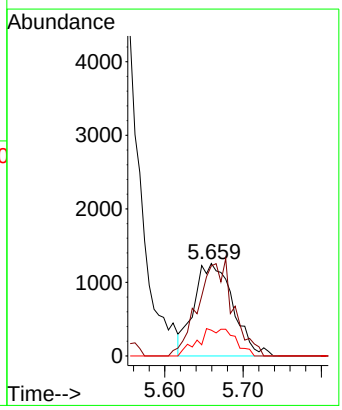


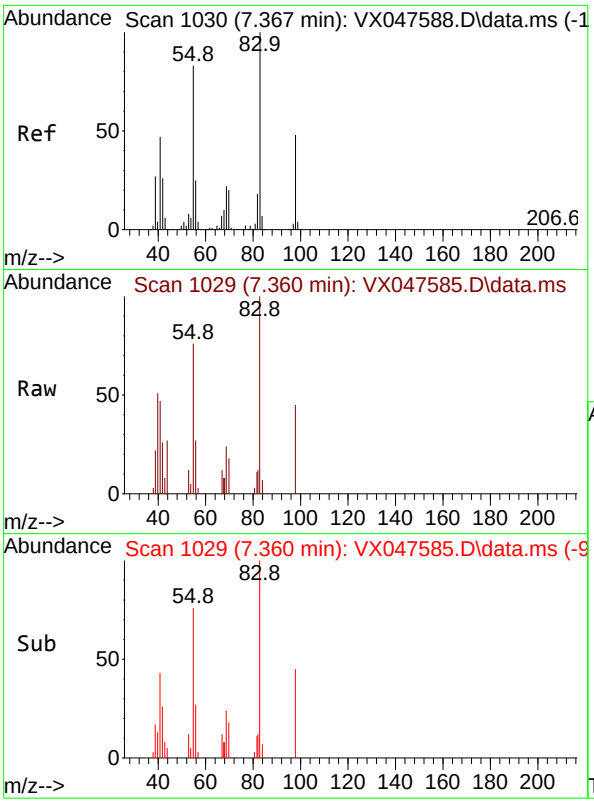


#38
Carbon Tetrachloride
Concen: 0.905 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 4349

Ion	Ratio	Lower	Upper
117	100		
119	97.3	73.4	110.2
121	27.8	23.8	35.6



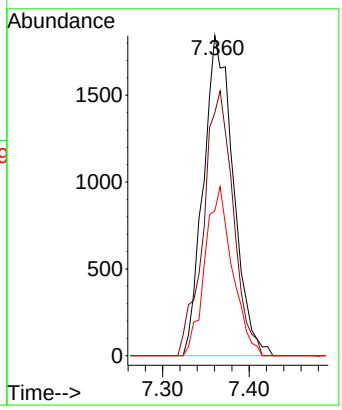


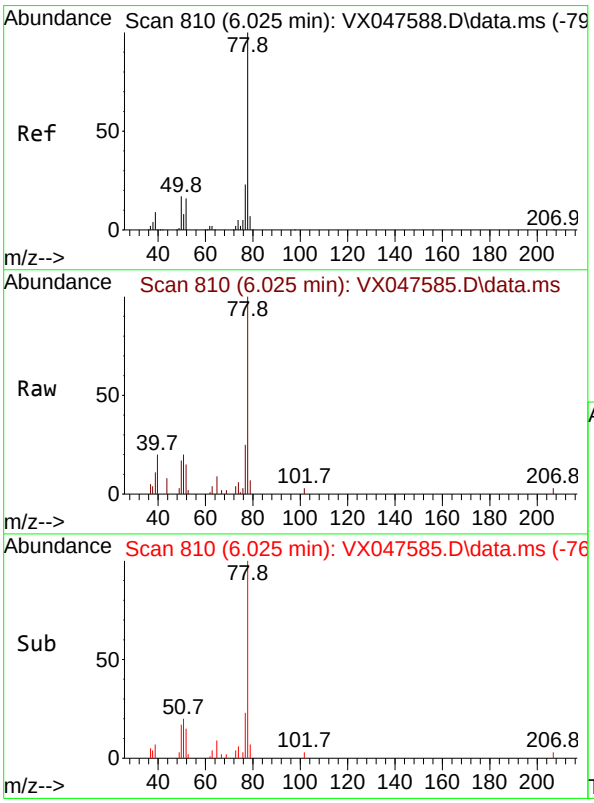
#39
Methylcyclohexane
Concen: 0.882 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 4428

Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	45.3	38.1	57.1

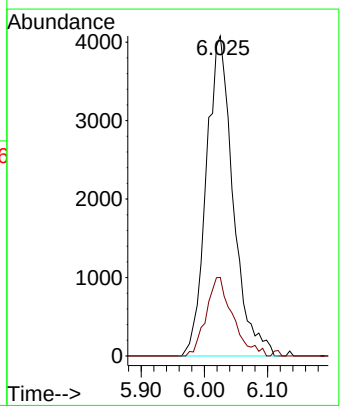


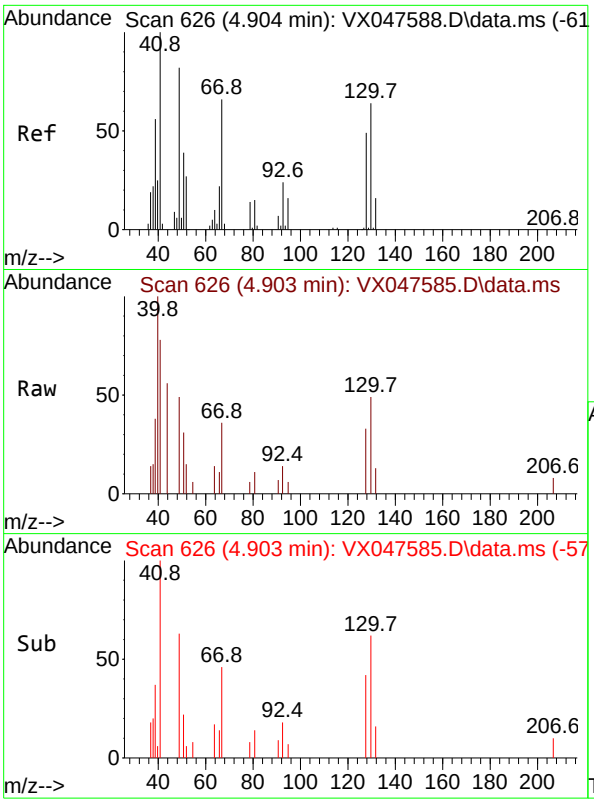


#40
Benzene
Concen: 0.894 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 78 Resp: 12012

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2



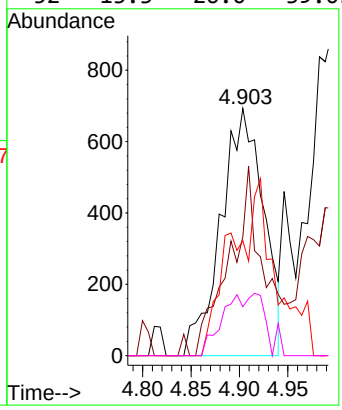


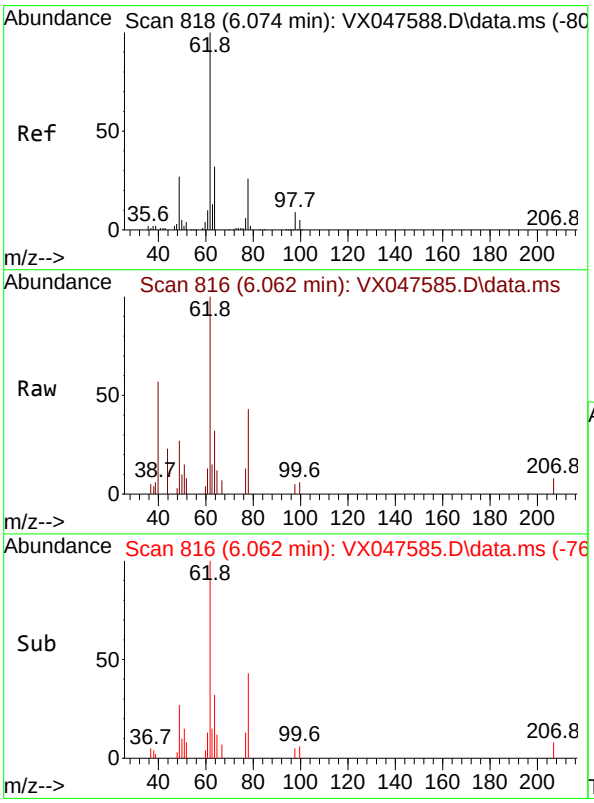
#41
Methacrylonitrile
Concen: 0.870 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 2128

Ion	Ratio	Lower	Upper
41	100		
39	60.3	43.3	64.9
67	23.5	58.6	87.8#
52	13.3	26.0	39.0#

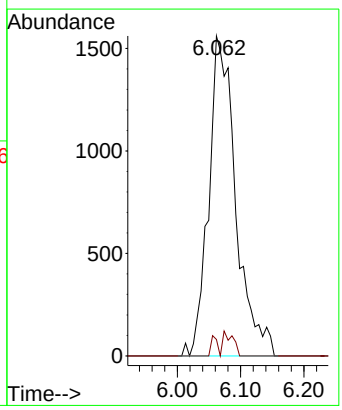


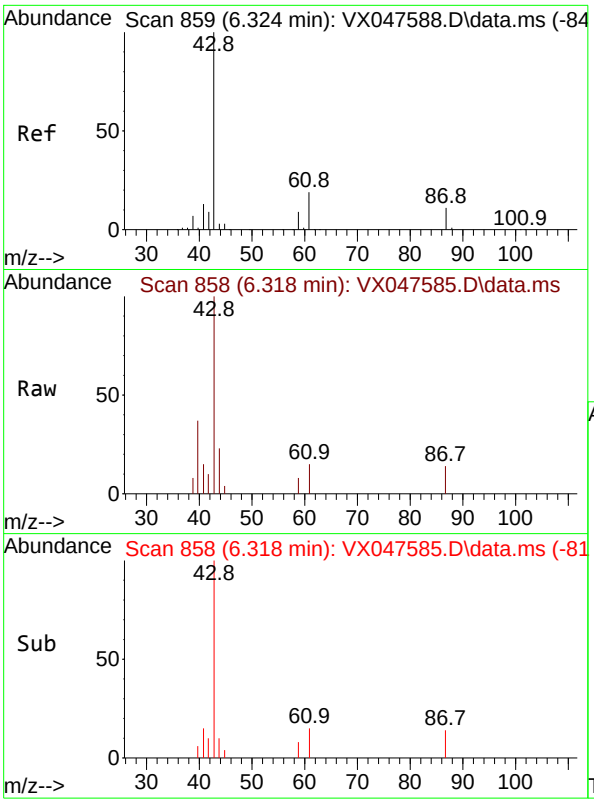


#42
1,2-Dichloroethane
Concen: 0.906 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 4634

Ion	Ratio	Lower	Upper
62	100		
98	1.4	0.0	17.0



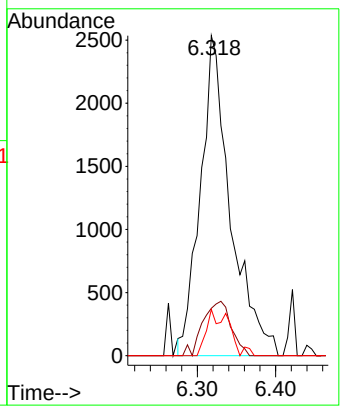


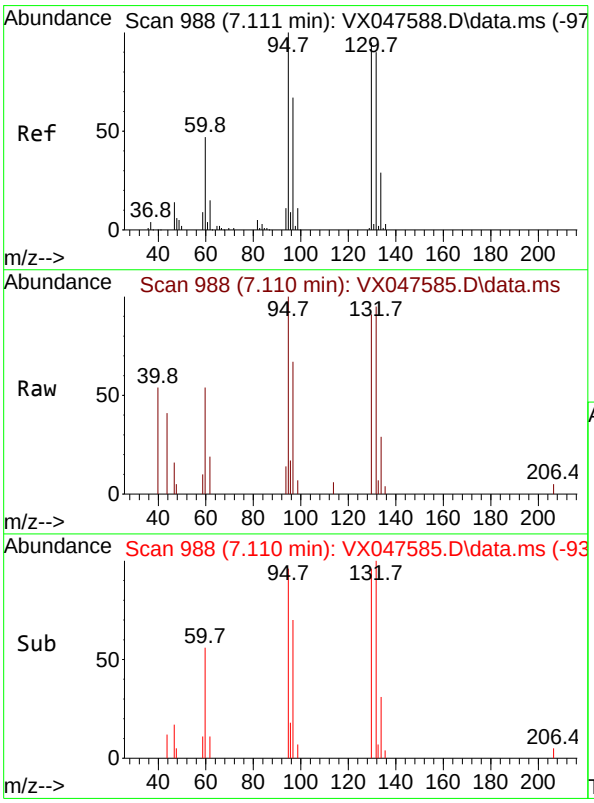
#43
Isopropyl Acetate
Concen: 0.873 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 6784

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.2	22.8
87	10.1	9.6	14.4

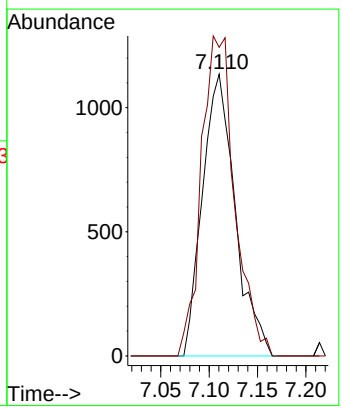


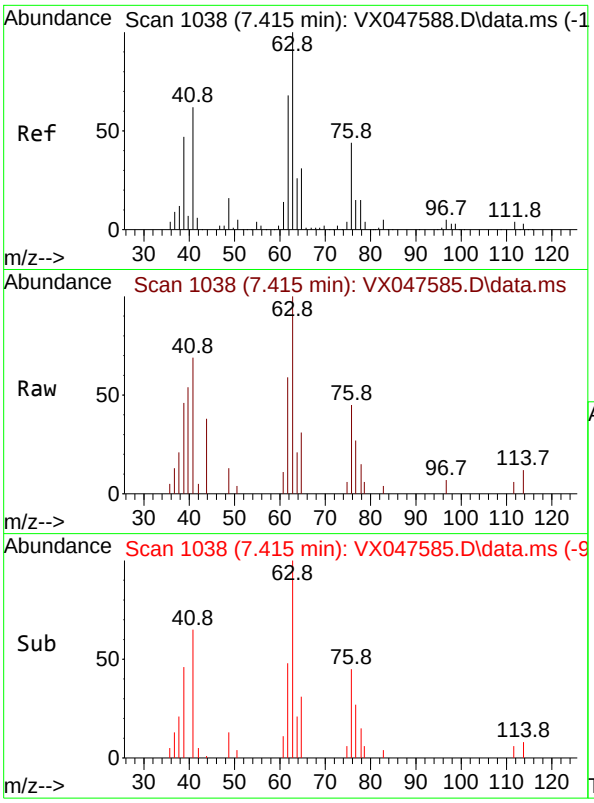


#44
Trichloroethene
Concen: 0.824 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:130 Resp: 2677

Ion	Ratio	Lower	Upper
130	100		
95	127.9	0.0	210.8



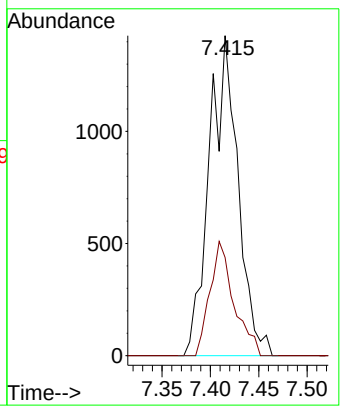


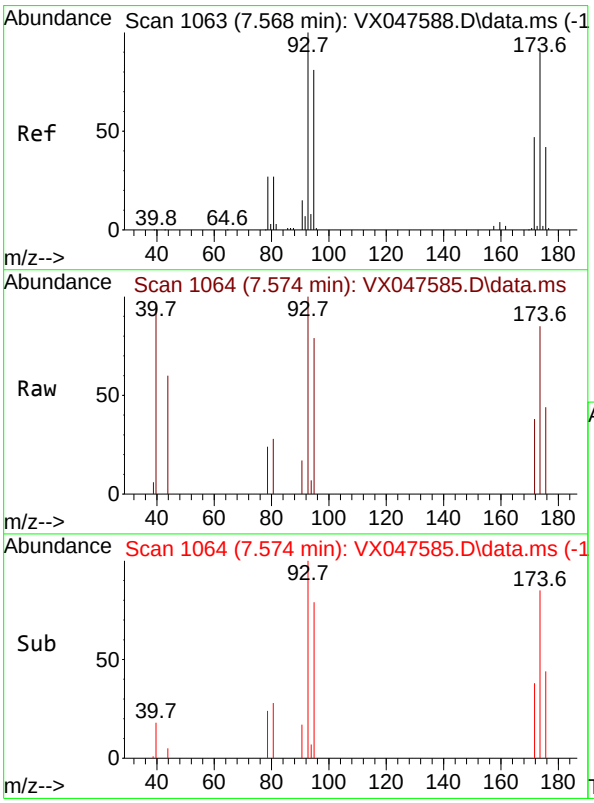
#45
1,2-Dichloropropane
Concen: 0.856 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 2945

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

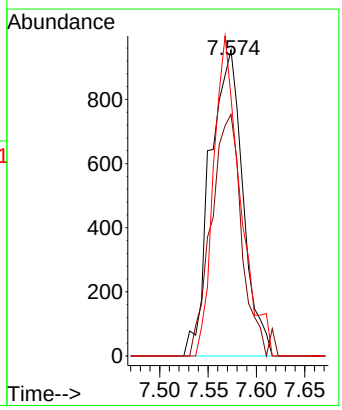


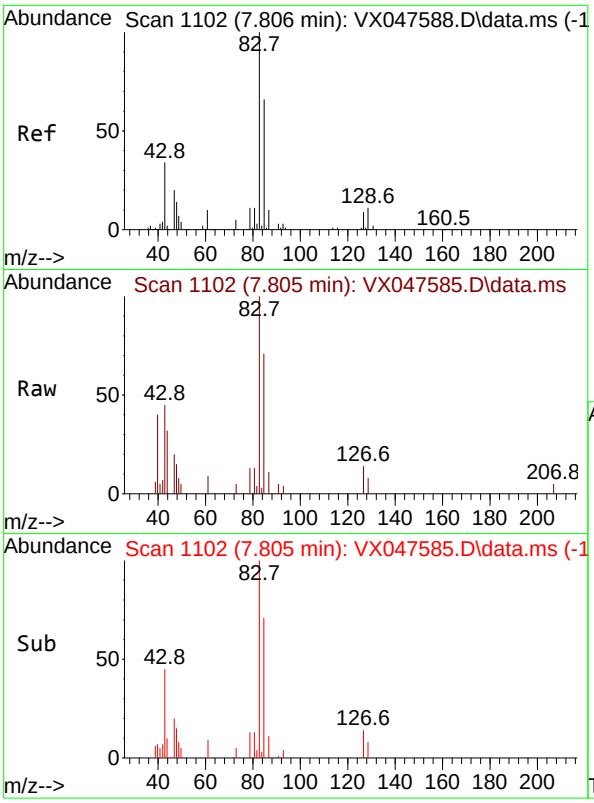


#46
Dibromomethane
Concen: 0.895 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 93 Resp: 2240

Ion	Ratio	Lower	Upper
93	100		
95	74.4	65.0	97.6
174	85.1	71.6	107.4



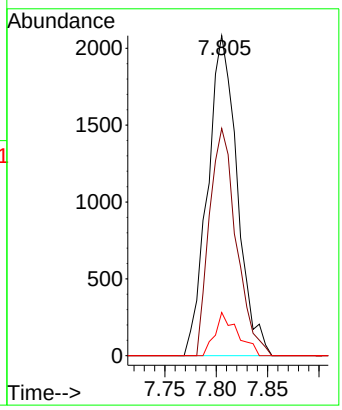


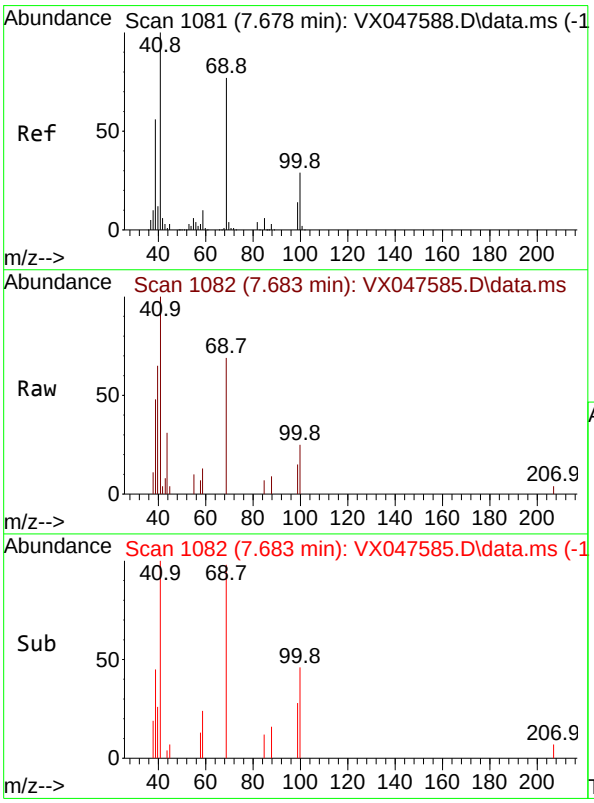
#47
Bromodichloromethane
Concen: 0.806 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 4167

Ion	Ratio	Lower	Upper
83	100		
85	71.0	52.5	78.7
127	13.5	6.9	10.3#

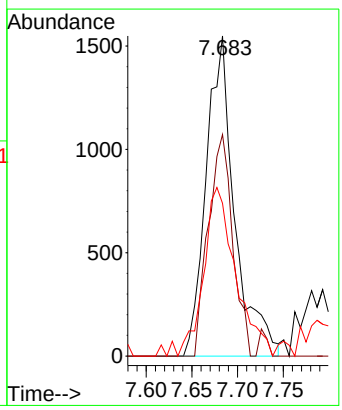


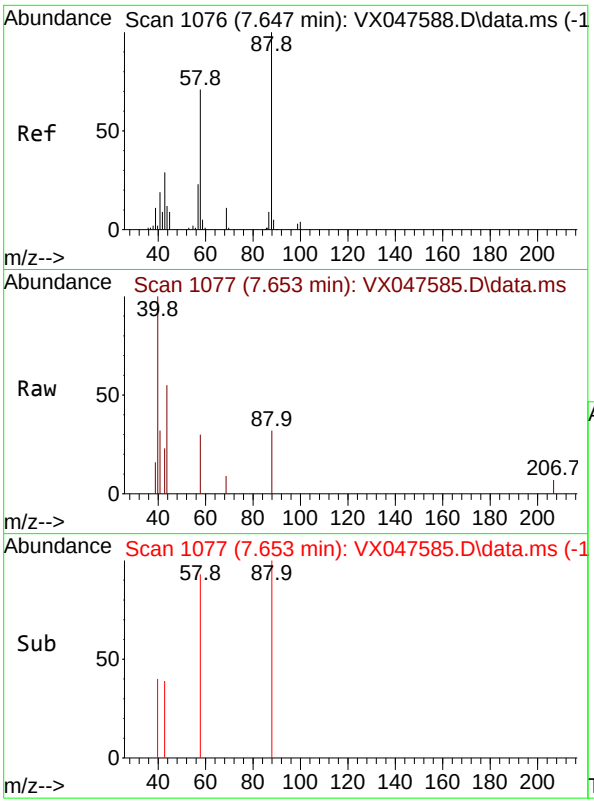


#48
Methyl methacrylate
Concen: 0.867 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 3355

Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2#
39	59.5	45.8	68.6



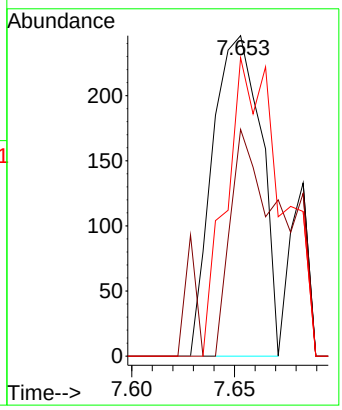


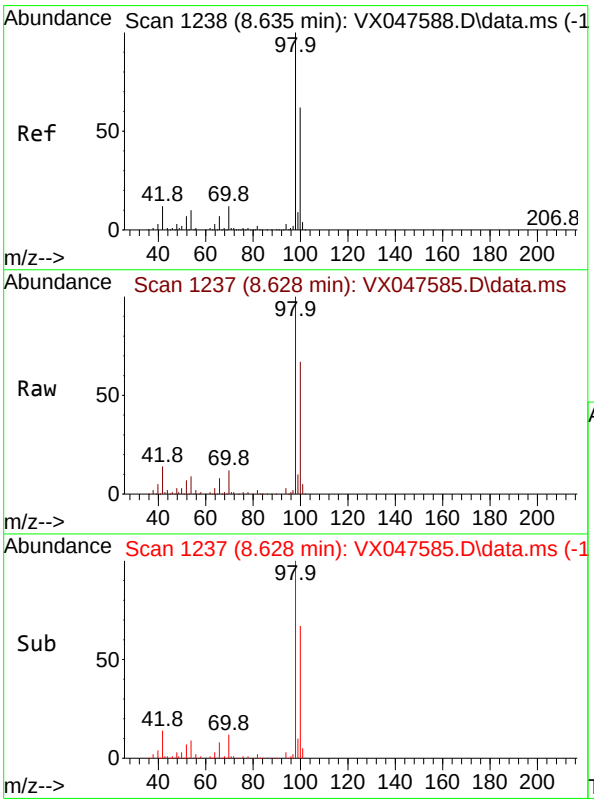
#49
1,4-Dioxane
Concen: 10.329 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 404

Ion	Ratio	Lower	Upper
88	100		
43	77.5	30.2	45.2#
58	107.4	59.5	89.3#

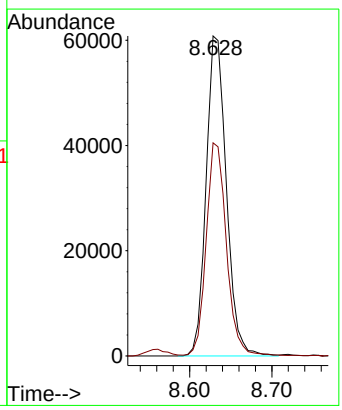


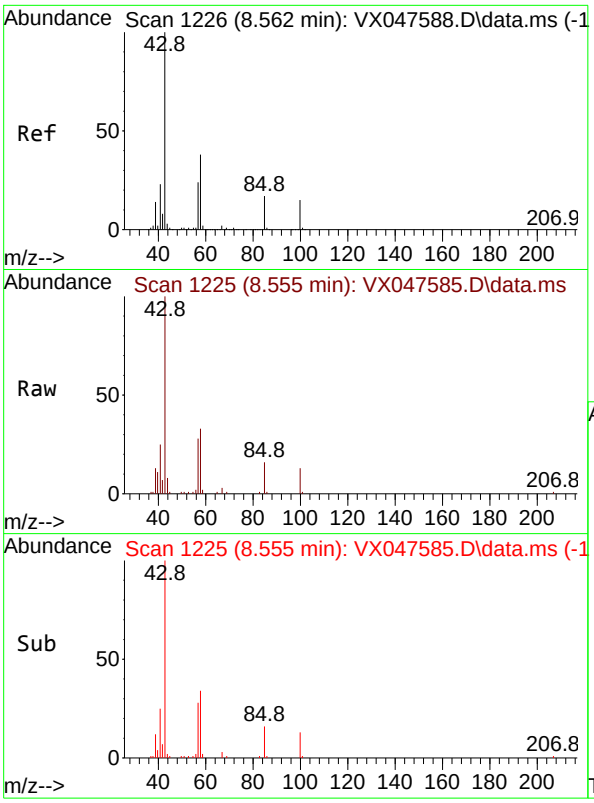


#50
Toluene-d8
Concen: 9.913 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 98 Resp: 103865

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4



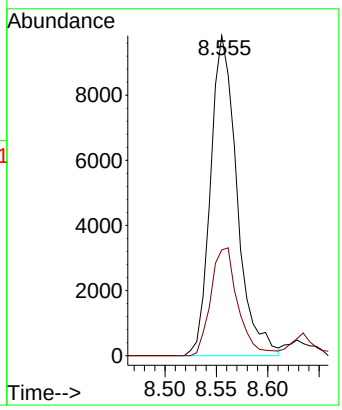


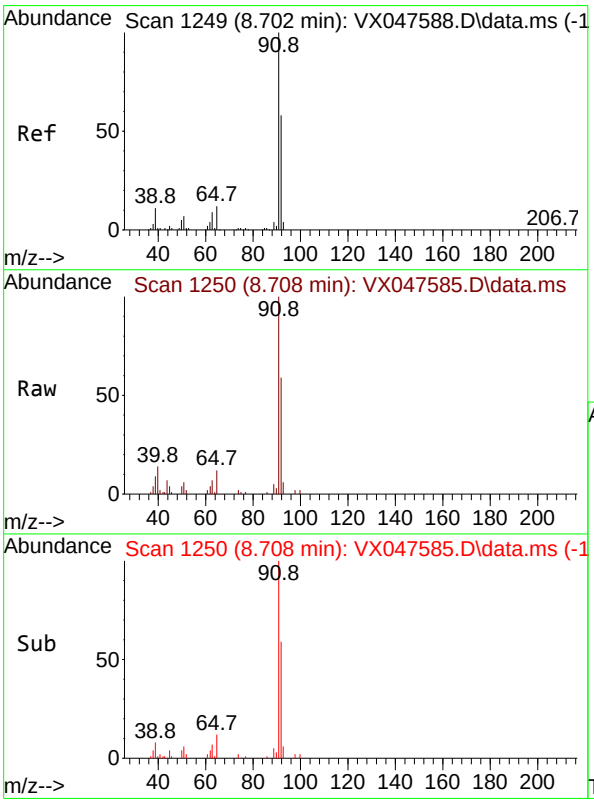
#51
4-Methyl-2-Pentanone
Concen: 4.085 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 17596

Ion	Ratio	Lower	Upper
43	100		
58	34.7	30.3	45.5

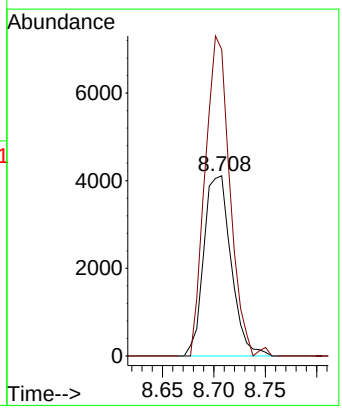


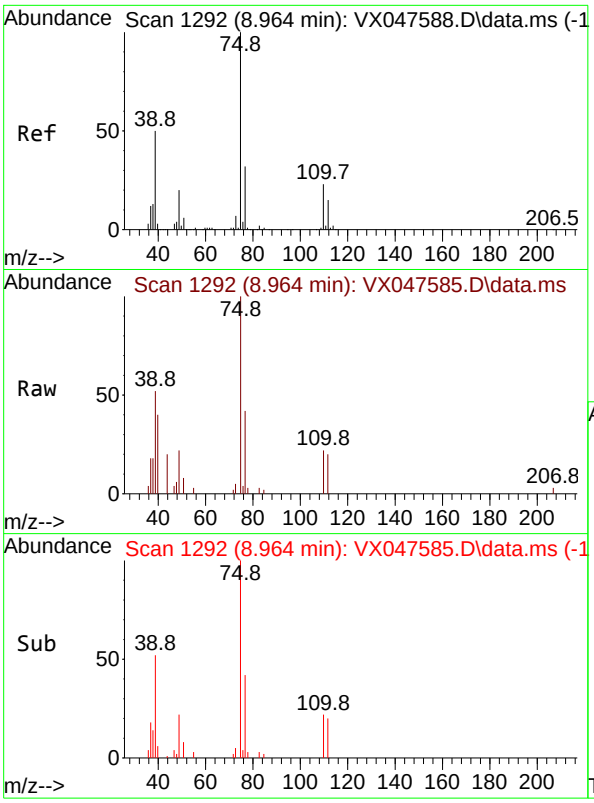


#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 92 Resp: 7595

Ion	Ratio	Lower	Upper
92	100		
91	160.7	137.1	205.7



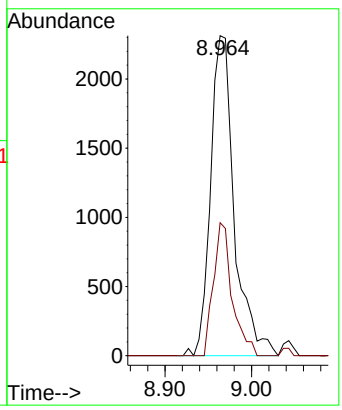


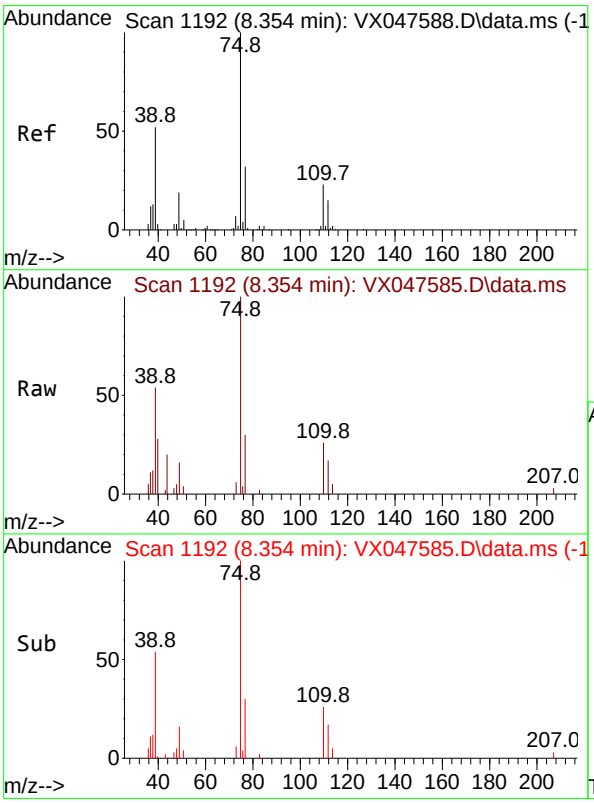
#53
t-1,3-Dichloropropene
Concen: 0.834 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 4398

Ion	Ratio	Lower	Upper
75	100		
77	41.5	25.4	38.2#

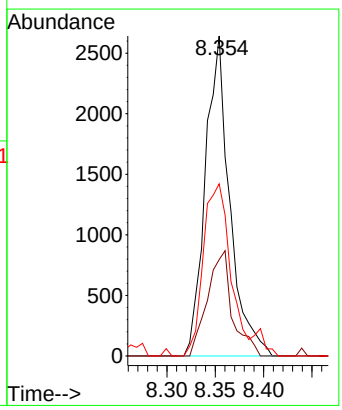


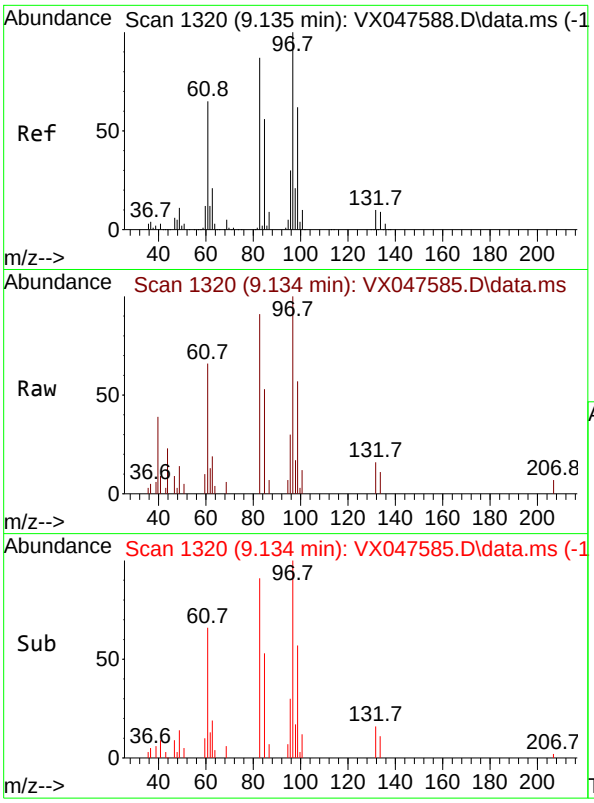


#54
cis-1,3-Dichloropropene
Concen: 0.823 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4635

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.8	38.6
39	25.6	41.4	62.2#



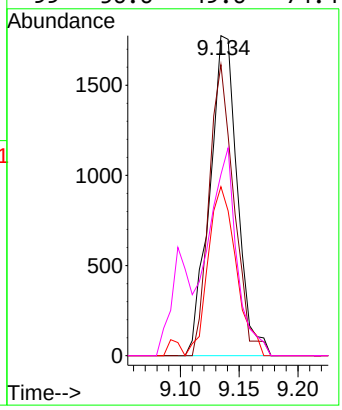


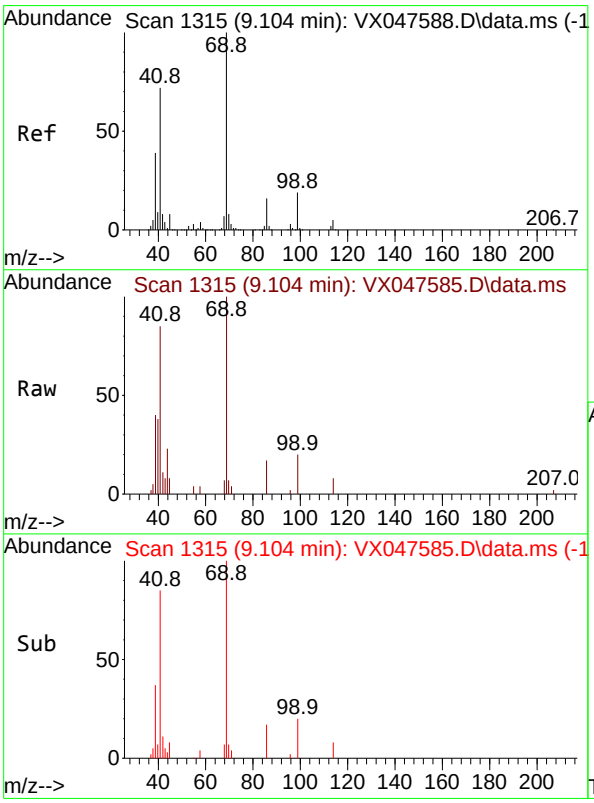
#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 2918

Ion	Ratio	Lower	Upper
97	100		
83	90.9	69.6	104.4
85	52.8	45.0	67.6
99	56.6	49.6	74.4

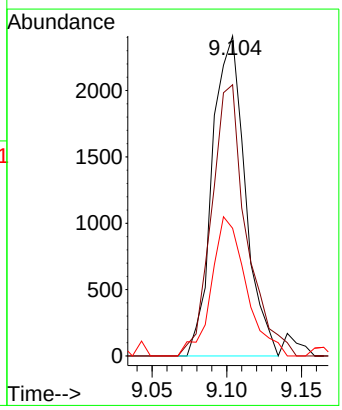


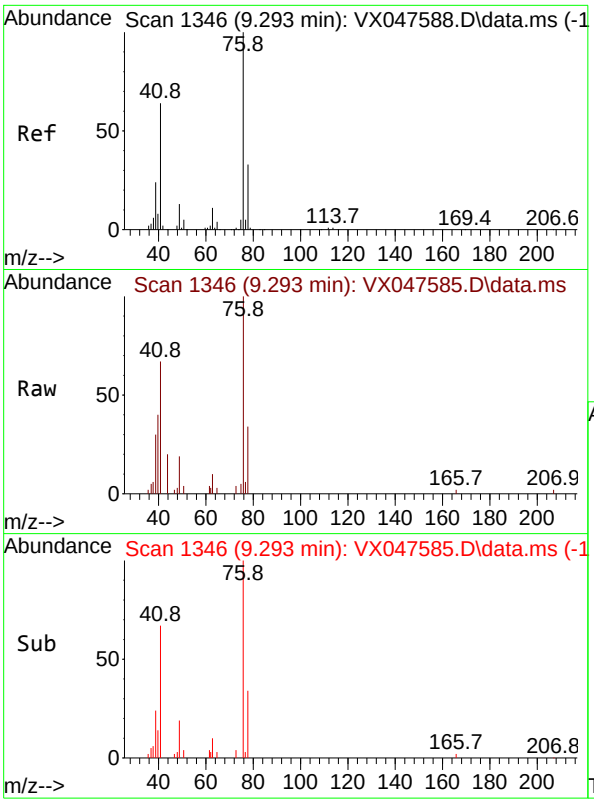


#56
Ethyl methacrylate
Concen: 0.734 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 69 Resp: 3679

Ion	Ratio	Lower	Upper
69	100		
41	89.4	58.6	87.8#
39	46.0	31.5	47.3



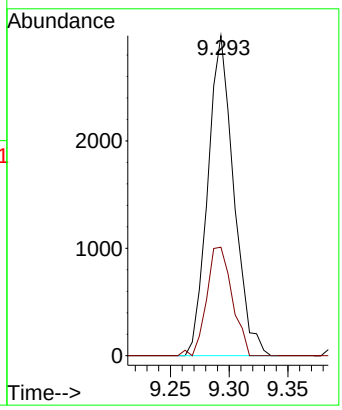


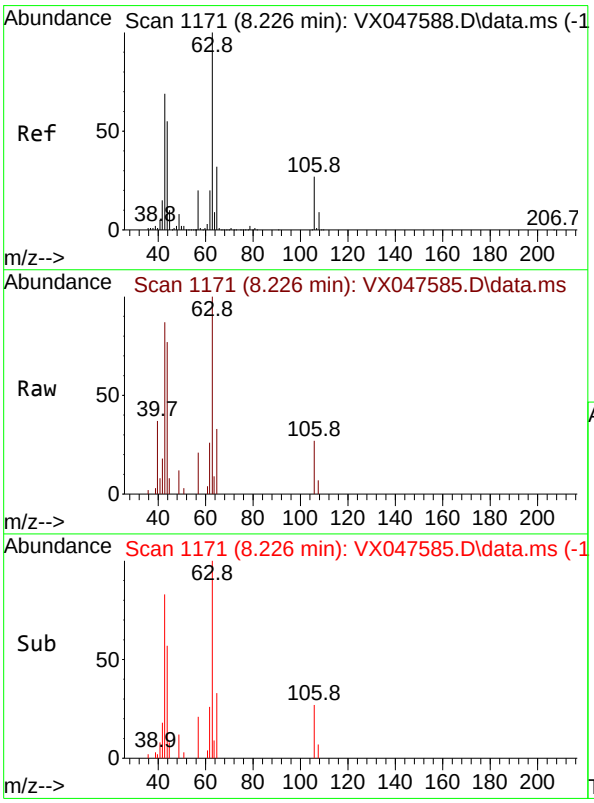
#57
1,3-Dichloropropane
Concen: 0.835 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 4580

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4

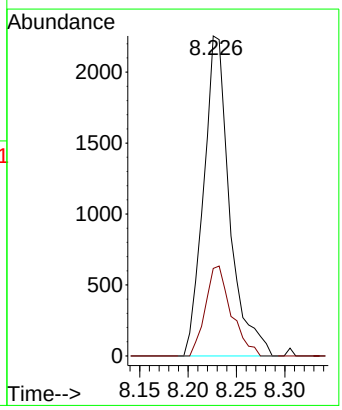


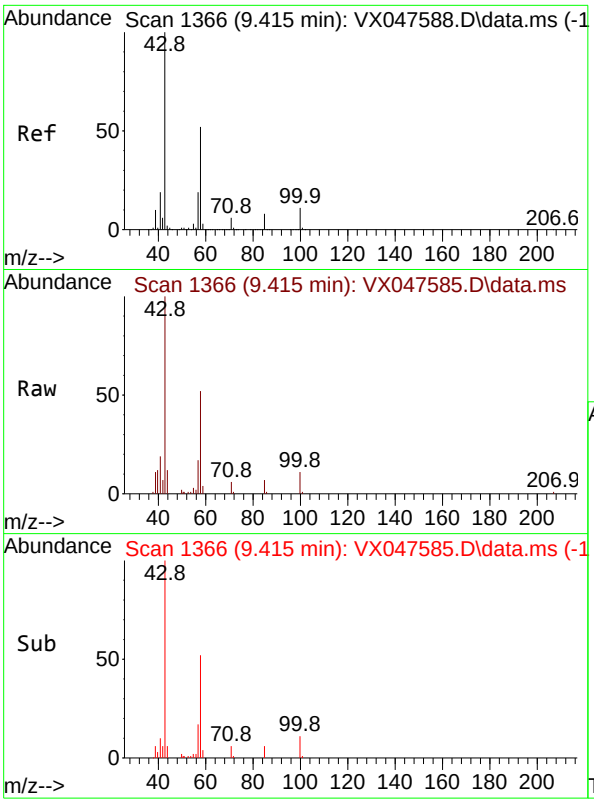


#58
2-Chloroethyl Vinyl ether
Concen: 9.665 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 4222

Ion	Ratio	Lower	Upper
63	100		
106	27.9	21.9	32.9



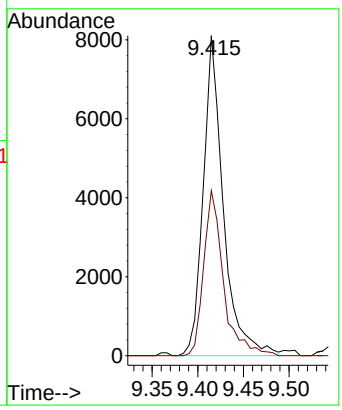


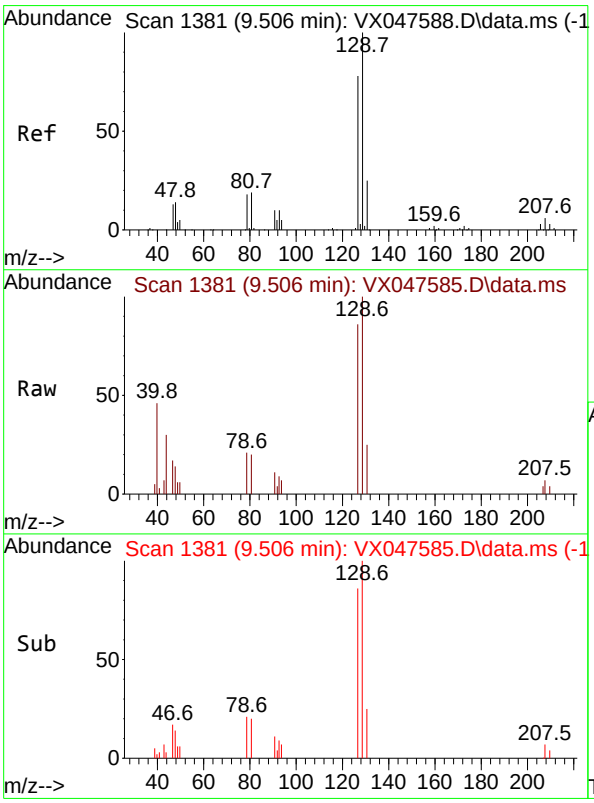
#59
2-Hexanone
Concen: 4.003 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 12385

Ion	Ratio	Lower	Upper
43	100		
58	50.7	26.1	78.2

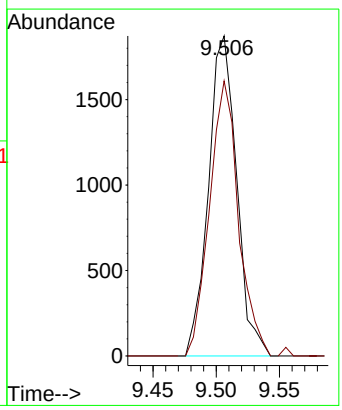


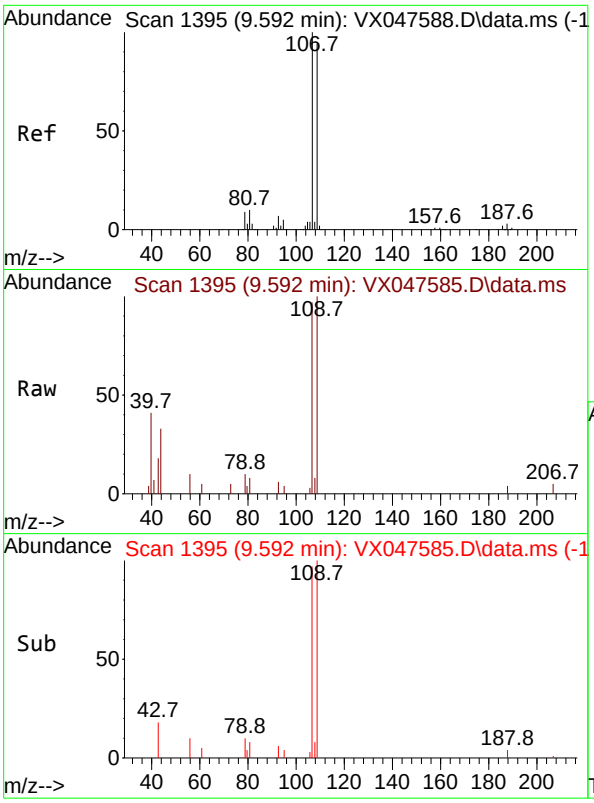


#60
Dibromochloromethane
Concen: 0.789 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:129 Resp: 2903

Ion	Ratio	Lower	Upper
129	100		
127	88.2	38.4	115.2



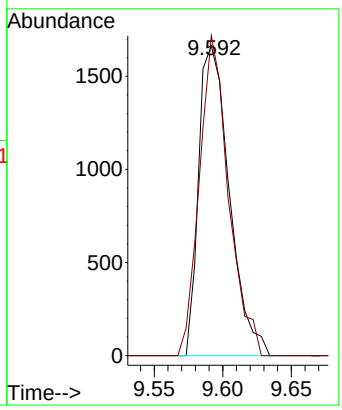


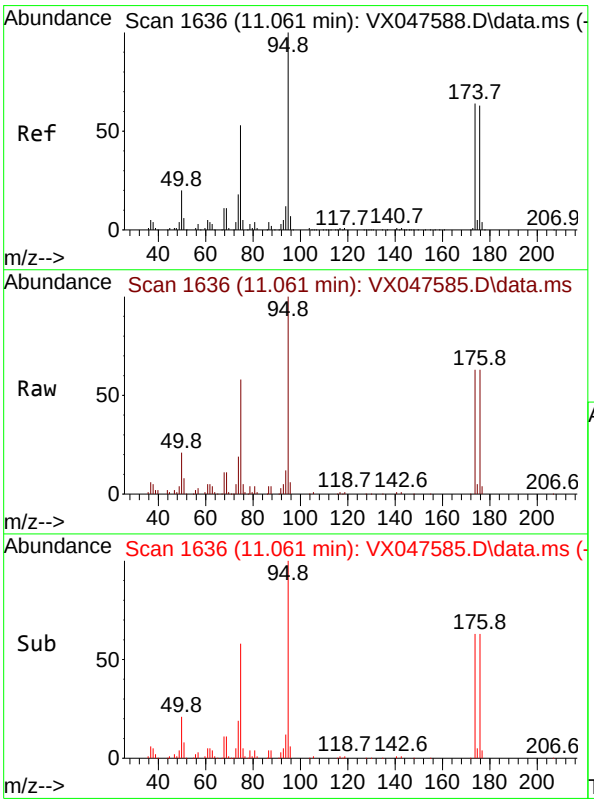
#61
1,2-Dibromoethane
Concen: 0.798 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 2596

Ion	Ratio	Lower	Upper
107	100		
109	97.7	75.3	112.9

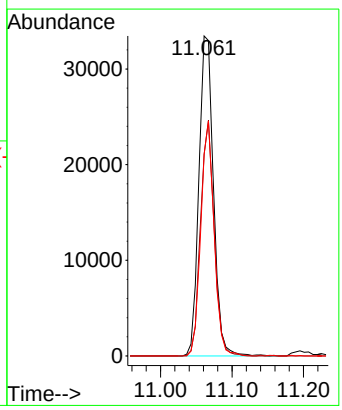


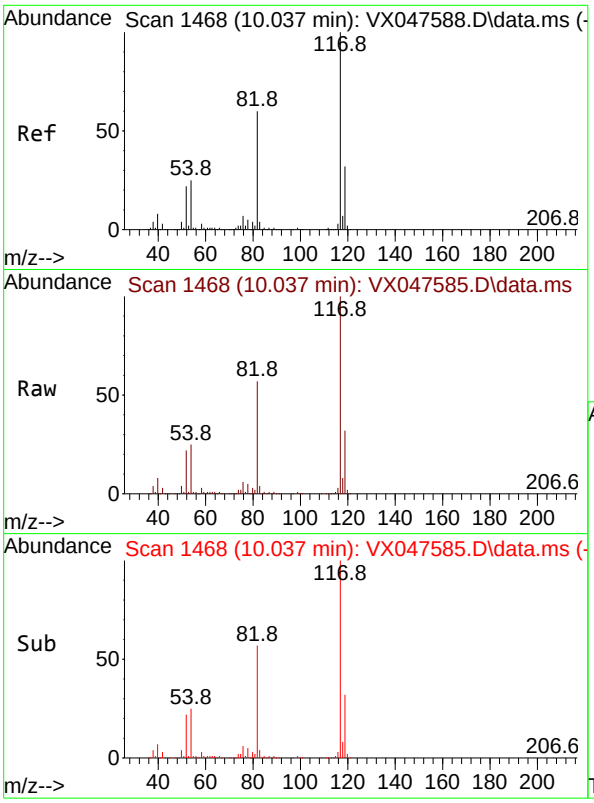


#62
4-Bromofluorobenzene
Concen: 11.900 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 95 Resp: 47321

Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	141.6
176	67.0	0.0	138.4



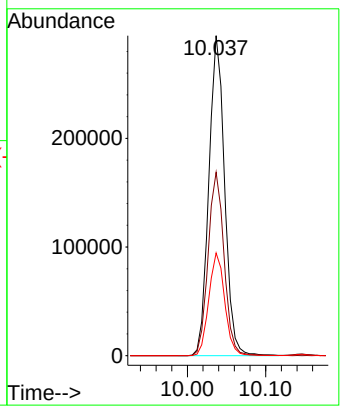


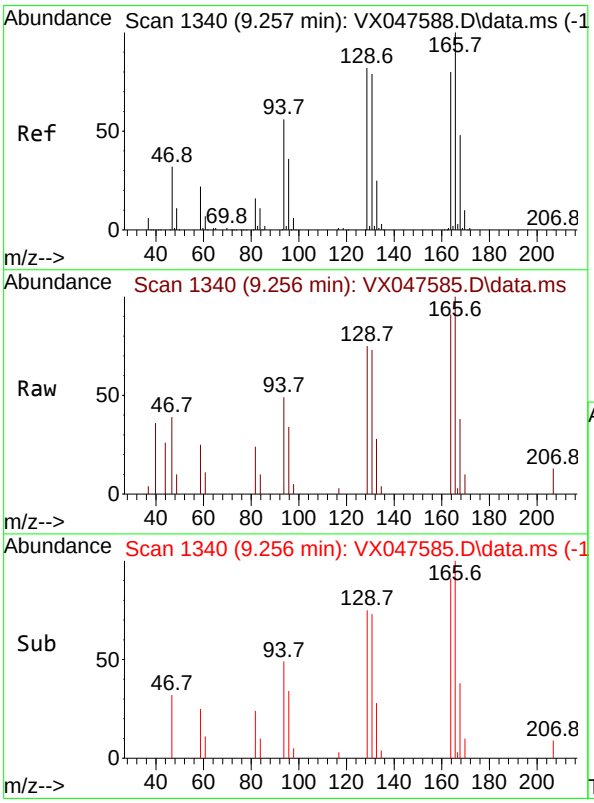
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 410953

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	32.1	25.2	37.8

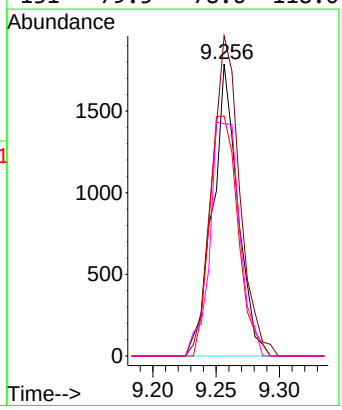


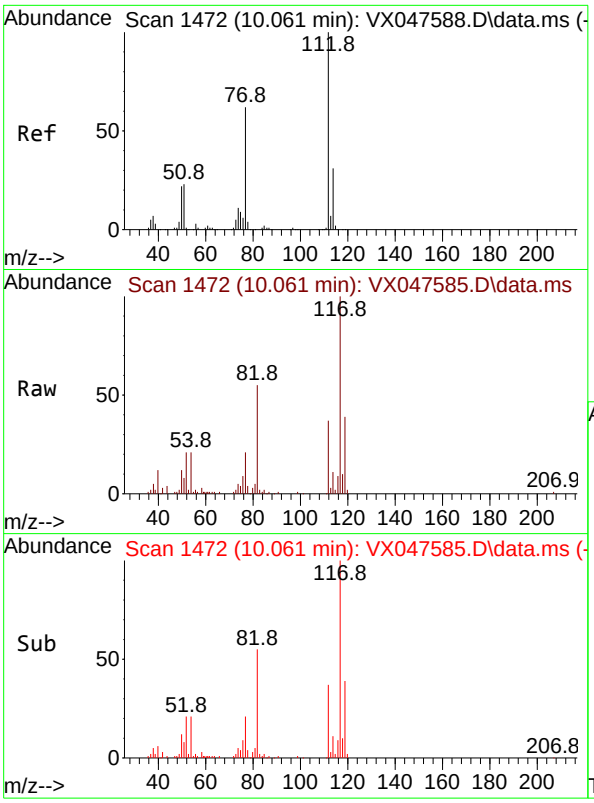


#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:164 Resp: 2457

Ion	Ratio	Lower	Upper
164	100		
166	109.6	100.2	150.2
129	82.2	81.8	122.6
131	79.5	78.6	118.0



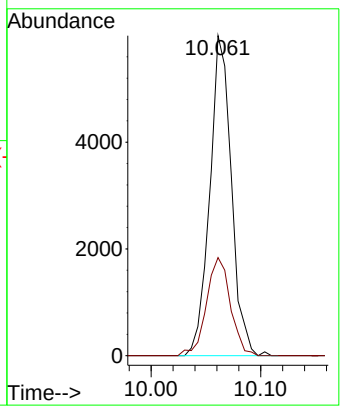


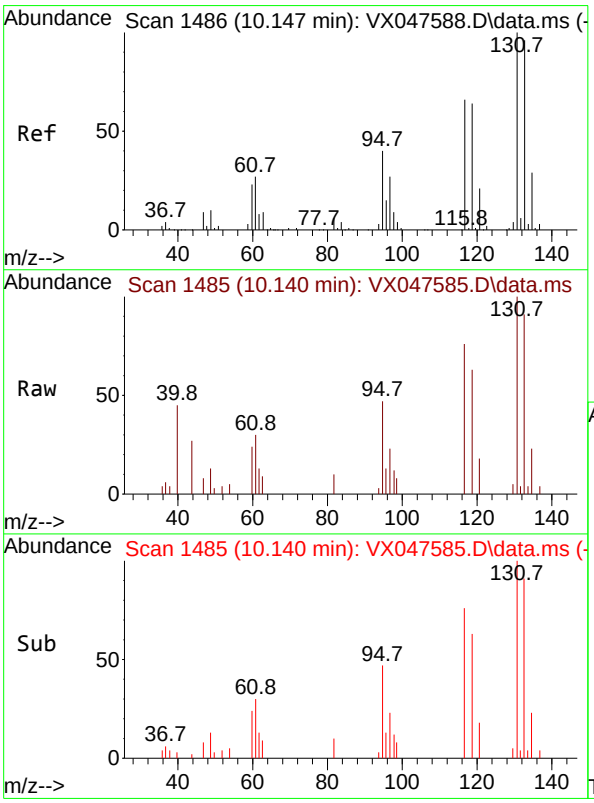
#65
Chlorobenzene
Concen: 0.879 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 8202

Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.1	37.7

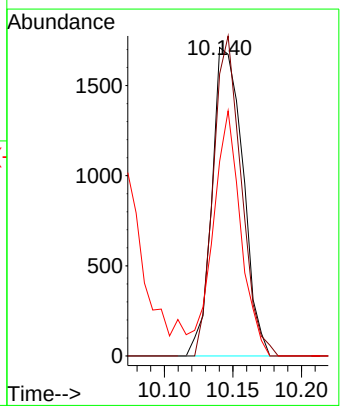


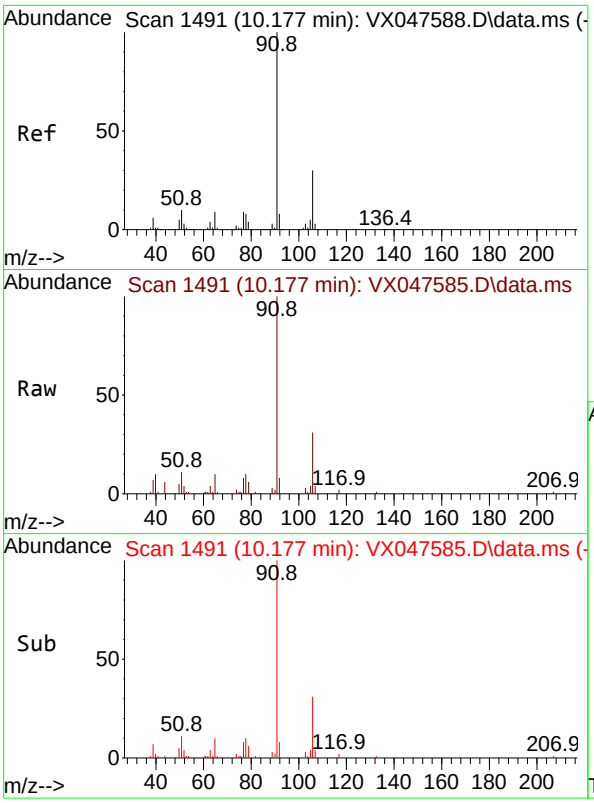


#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:131 Resp: 2684

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	0.0	32.0	96.0#



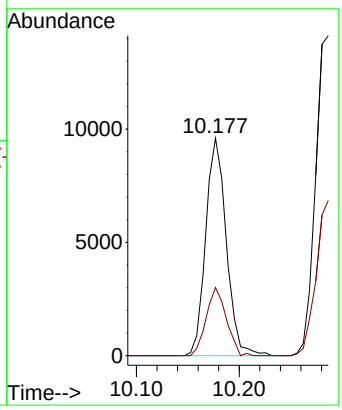


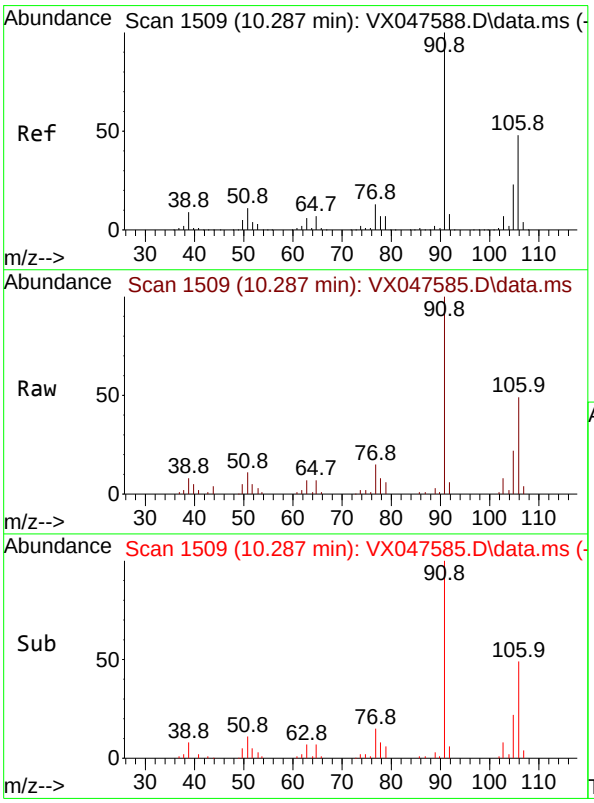
#67
Ethyl Benzene
Concen: 0.829 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 13360

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.3	36.5

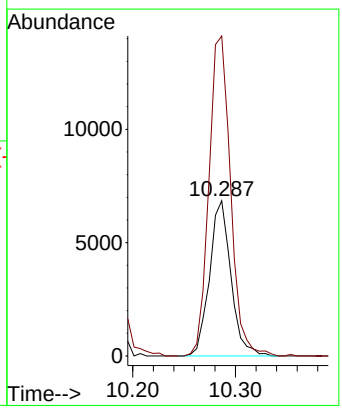


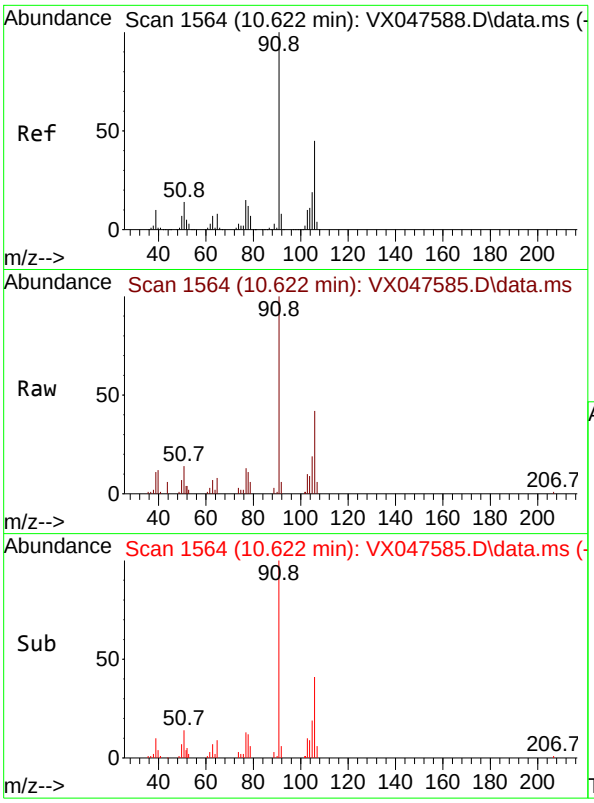


#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 9922

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



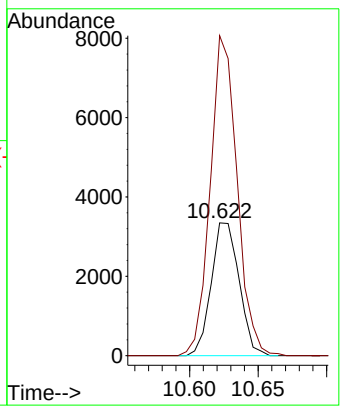


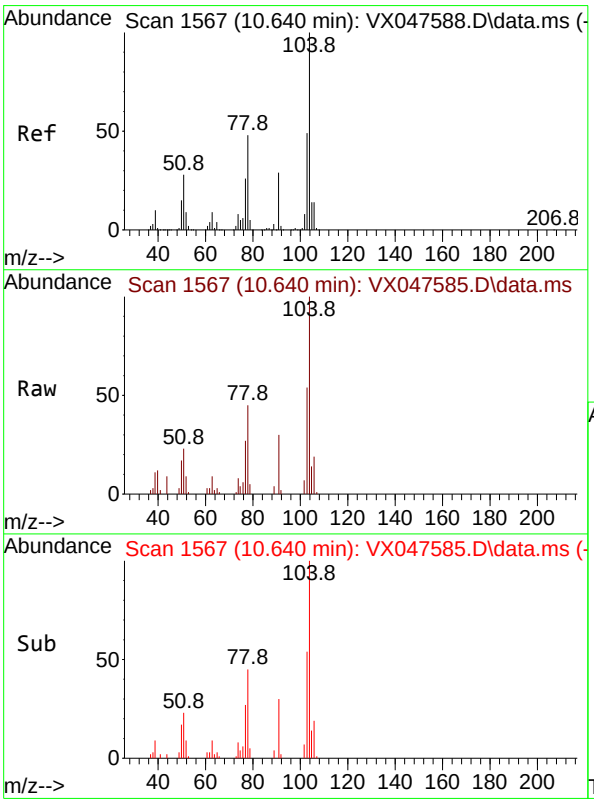
#69
o-Xylene
Concen: 0.816 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 4734

Ion	Ratio	Lower	Upper
106	100		
91	232.4	111.1	333.4

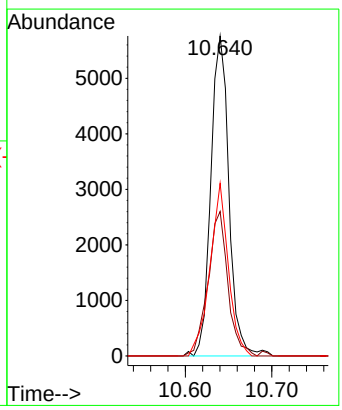


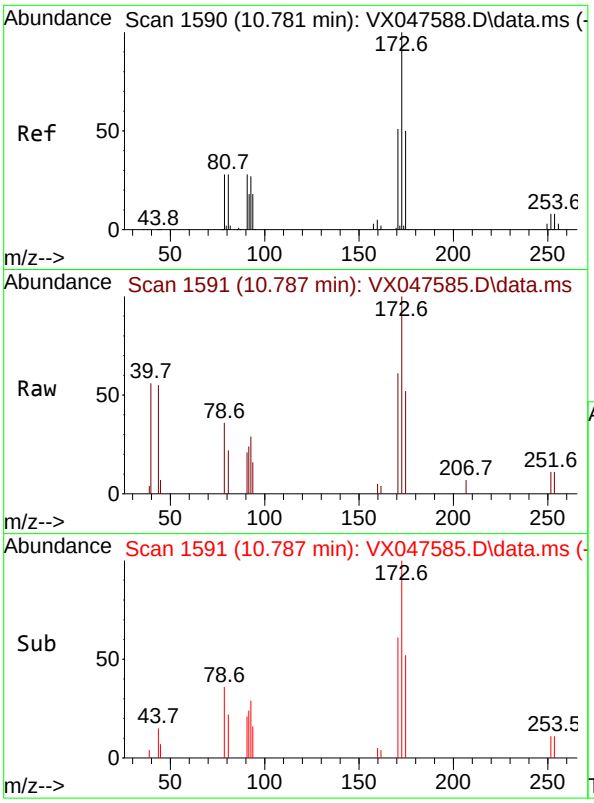


#70
Styrene
Concen: 0.824 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:104 Resp: 8377

Ion	Ratio	Lower	Upper
104	100		
78	49.5	43.1	64.7
103	55.0	43.1	64.7



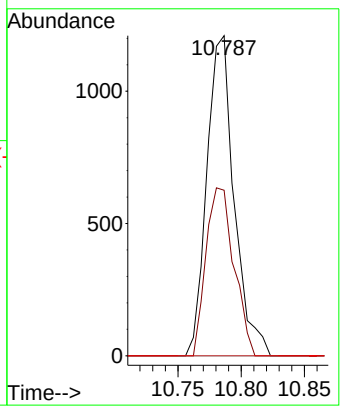


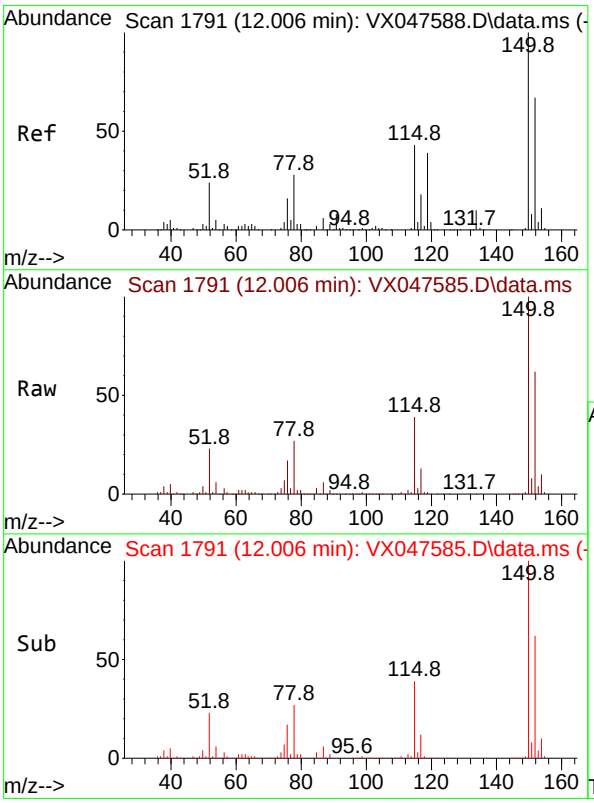
#71
Bromoform
Concen: 0.755 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 1816

Ion	Ratio	Lower	Upper
173	100		
175	53.8	24.9	74.6
254	0.0	0.1	0.1#

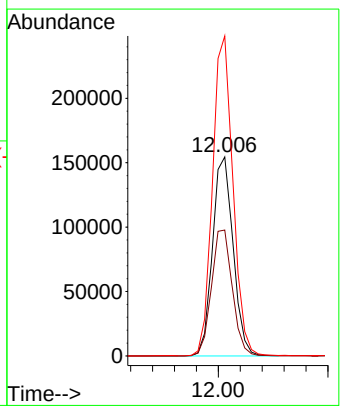


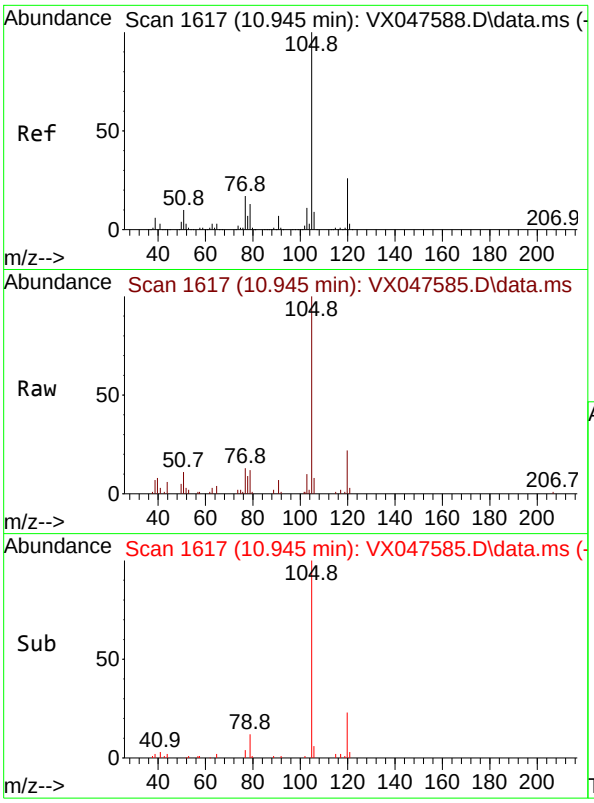


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:152 Resp: 201976

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.9	134.5
150	158.7	0.0	352.0



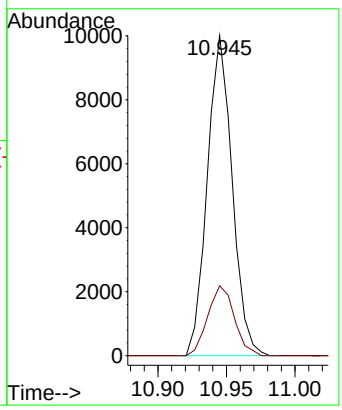


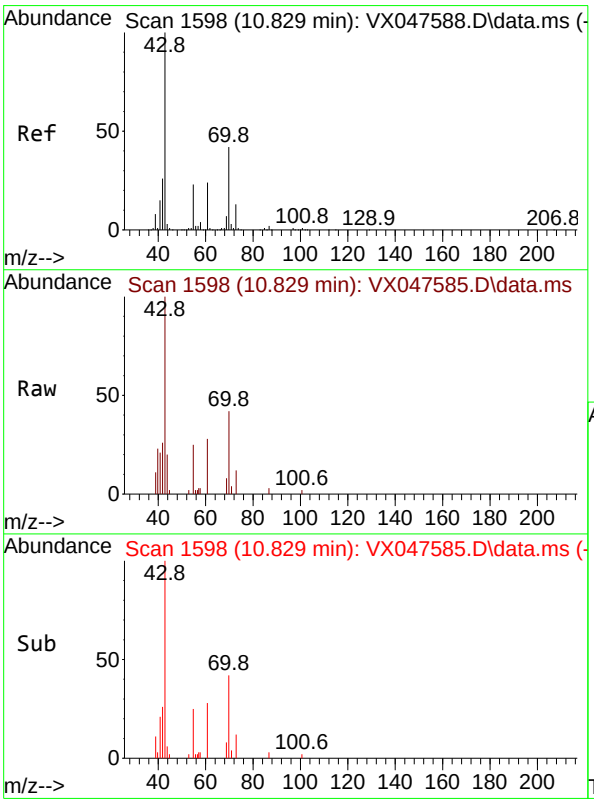
#73
Isopropylbenzene
Concen: 0.822 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 12618

Ion	Ratio	Lower	Upper
105	100		
120	23.4	12.8	38.4

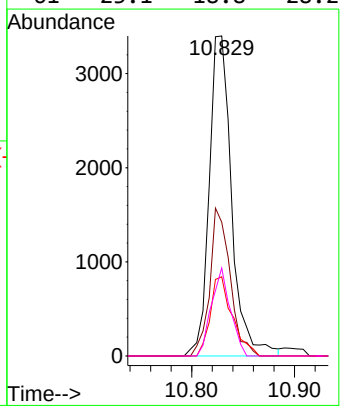


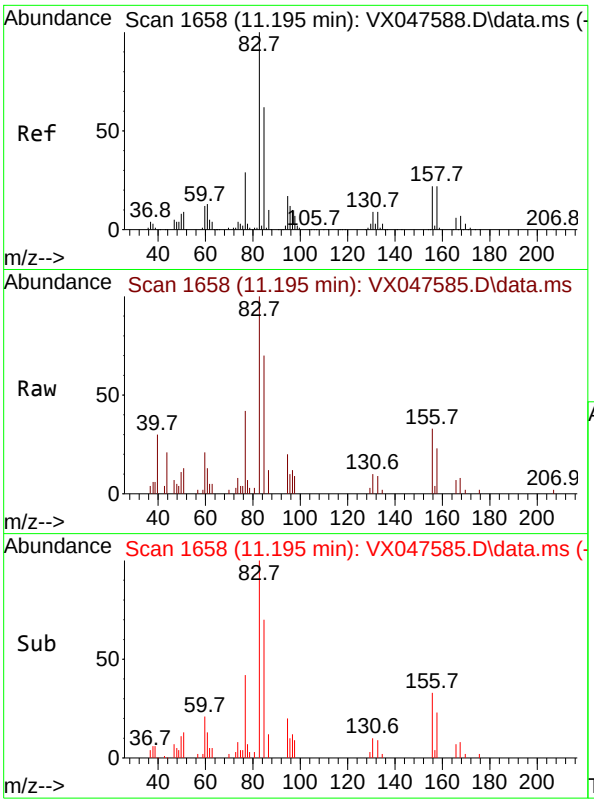


#74
N-amyl acetate
Concen: 0.737 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 5159

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	24.3	18.9	28.3
61	23.1	18.8	28.2



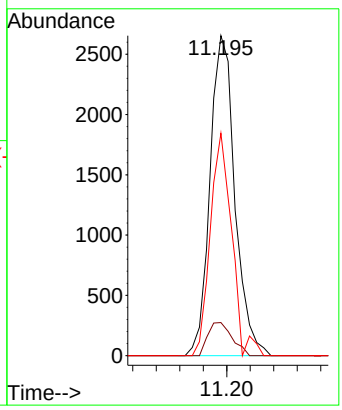


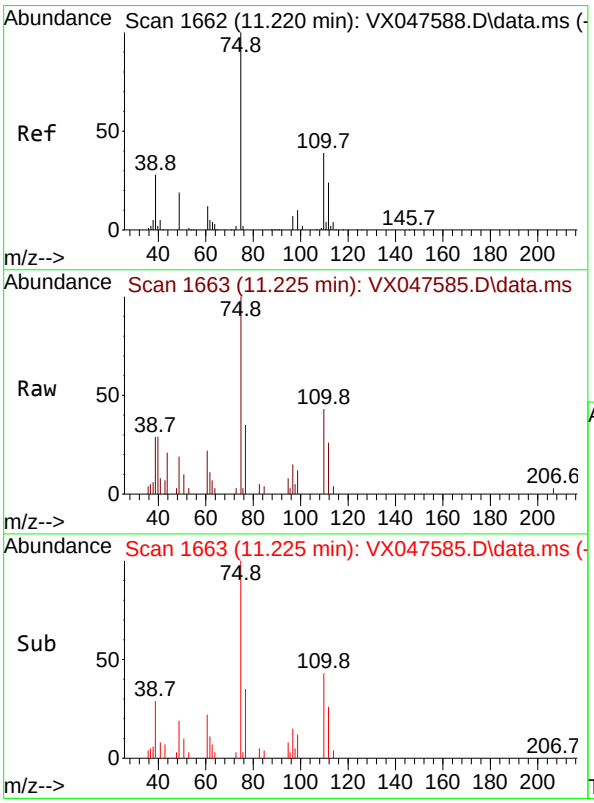
#75
1,1,2,2-Tetrachloroethane
Concen: 0.839 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 3900

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	59.8	31.6	95.0

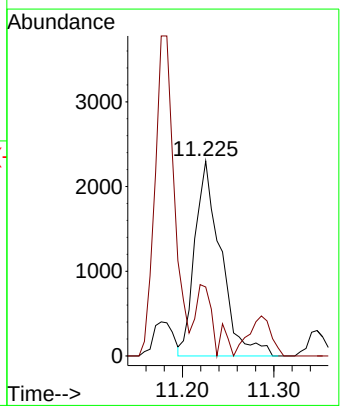


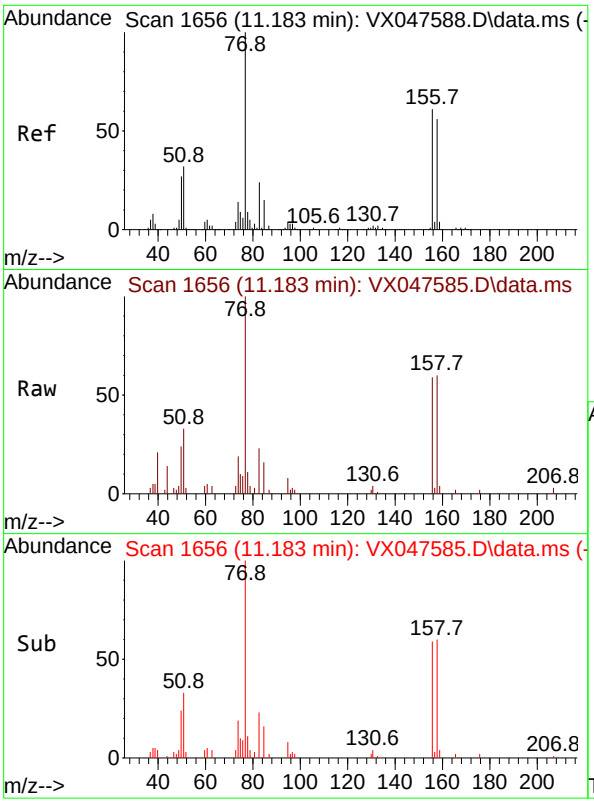


#76
1,2,3-Trichloropropane
Concen: 1.117 ug/l
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4568

Ion	Ratio	Lower	Upper
75	100		
77	25.9	18.8	56.4



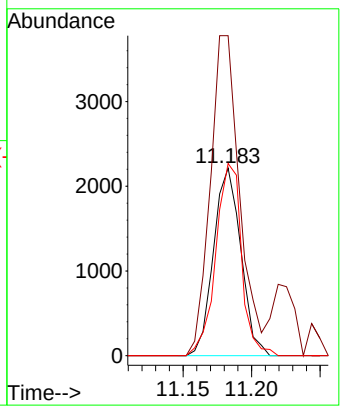


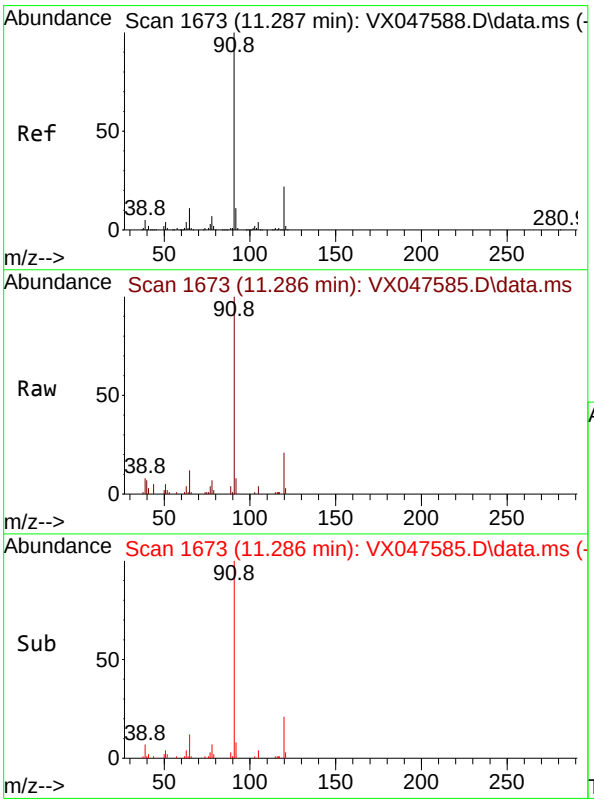
#77
Bromobenzene
Concen: 0.811 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 3069

Ion	Ratio	Lower	Upper
156	100		
77	182.3	89.7	269.1
158	96.6	47.9	143.6

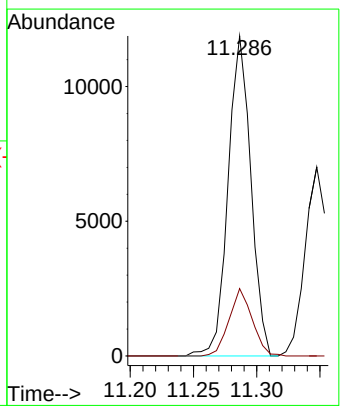


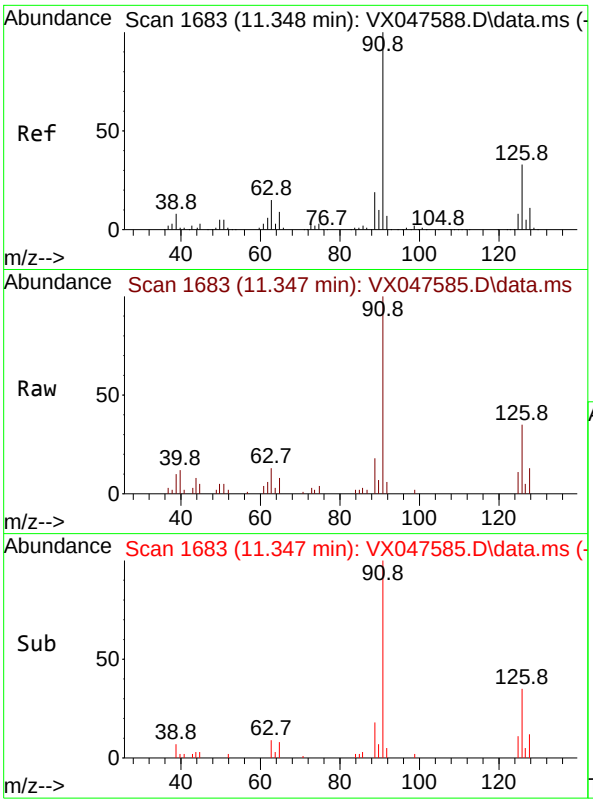


#78
n-propylbenzene
Concen: 0.819 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 14866

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.1



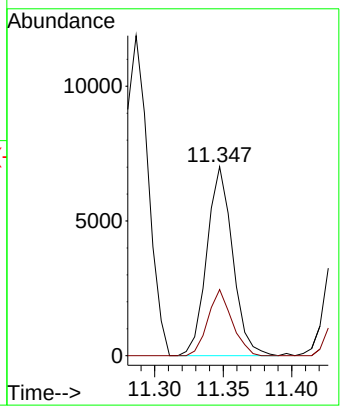


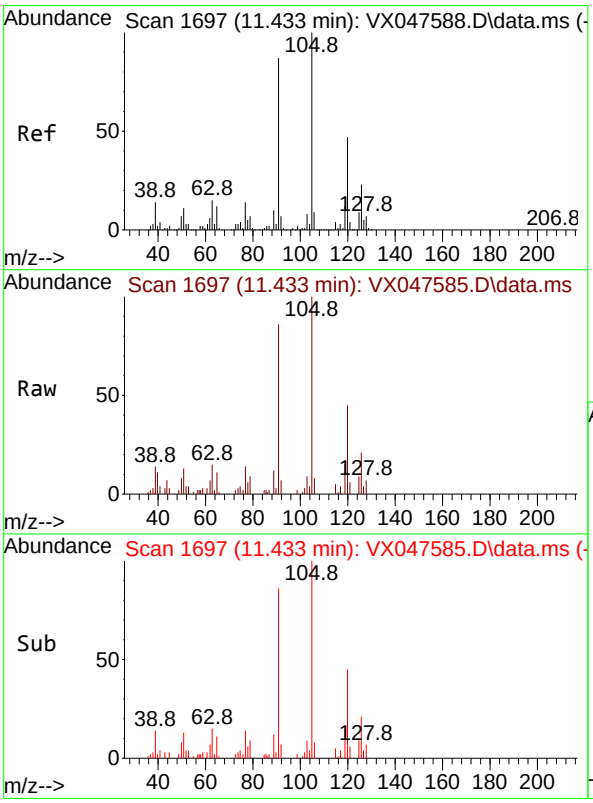
#79
2-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 9195

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

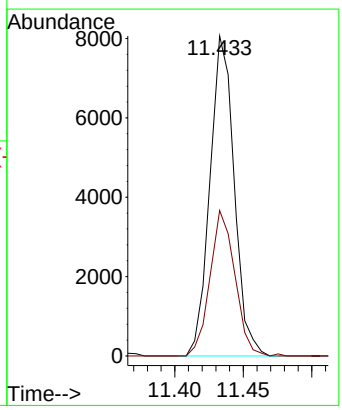


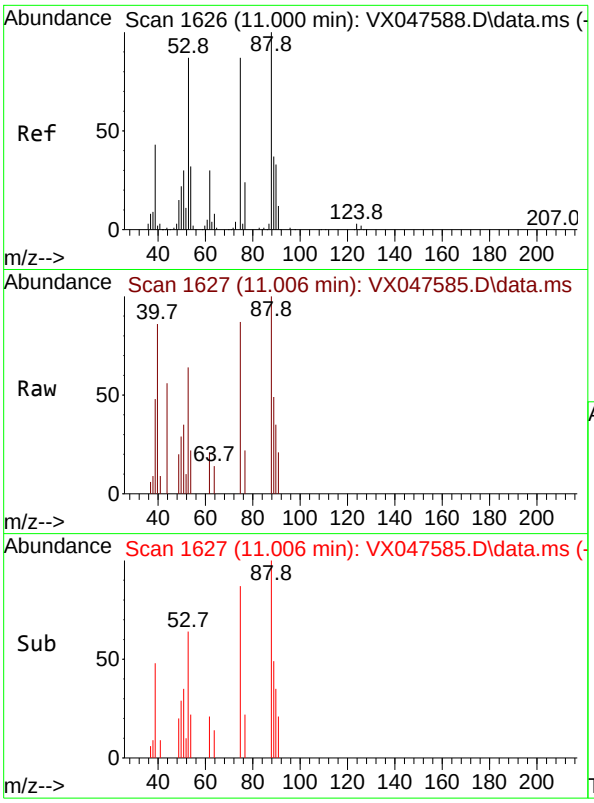


#80
1,3,5-Trimethylbenzene
Concen: 0.787 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 9929

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.6	70.8



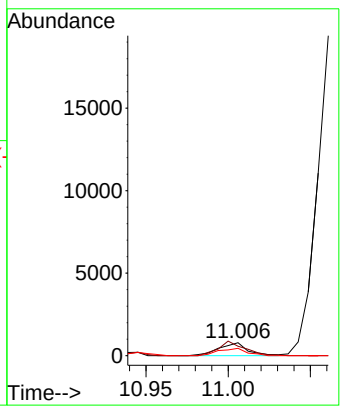


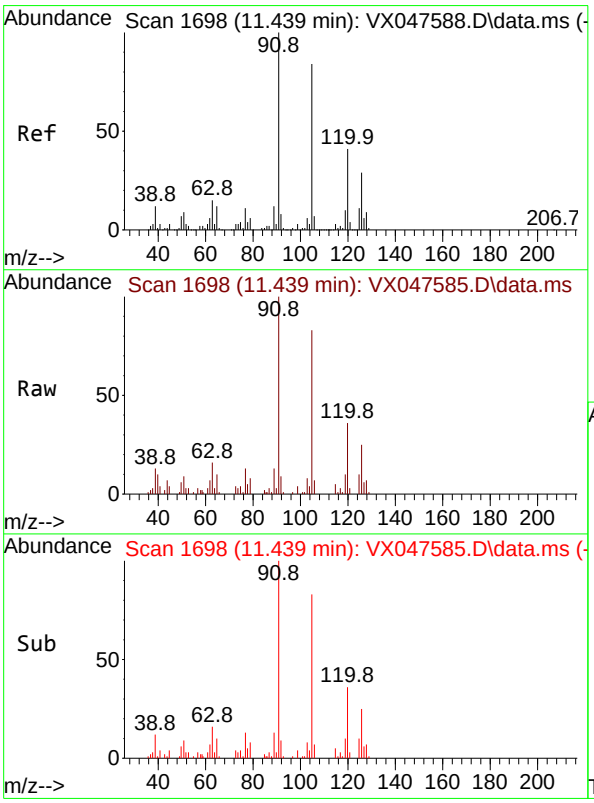
#81
trans-1,4-Dichloro-2-butene
Concen: 0.599 ug/l
RT: 11.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 960

Ion	Ratio	Lower	Upper
75	100		
53	103.2	83.4	125.2
89	55.2	36.3	54.5#

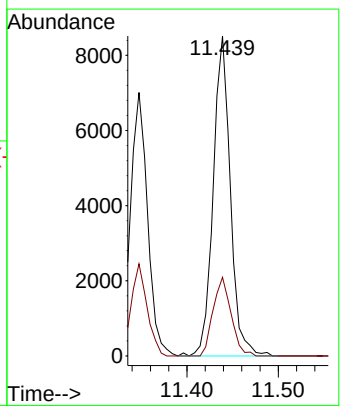


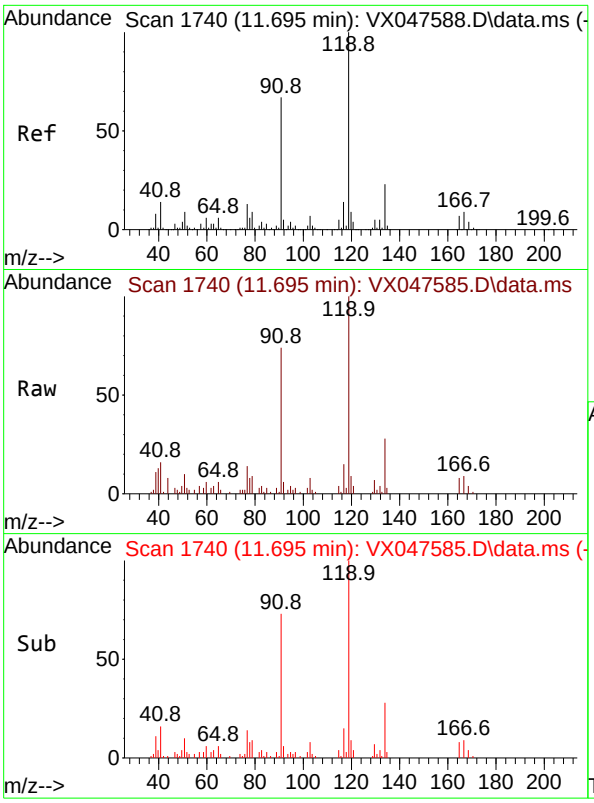


#82
4-Chlorotoluene
Concen: 0.847 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 11123

Ion	Ratio	Lower	Upper
91	100		
126	25.8	14.2	42.6



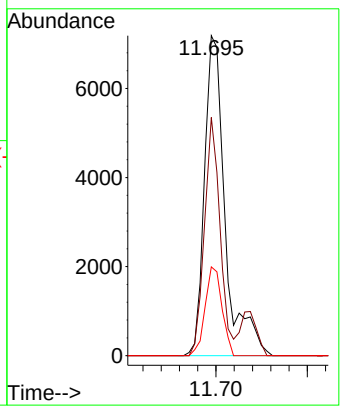


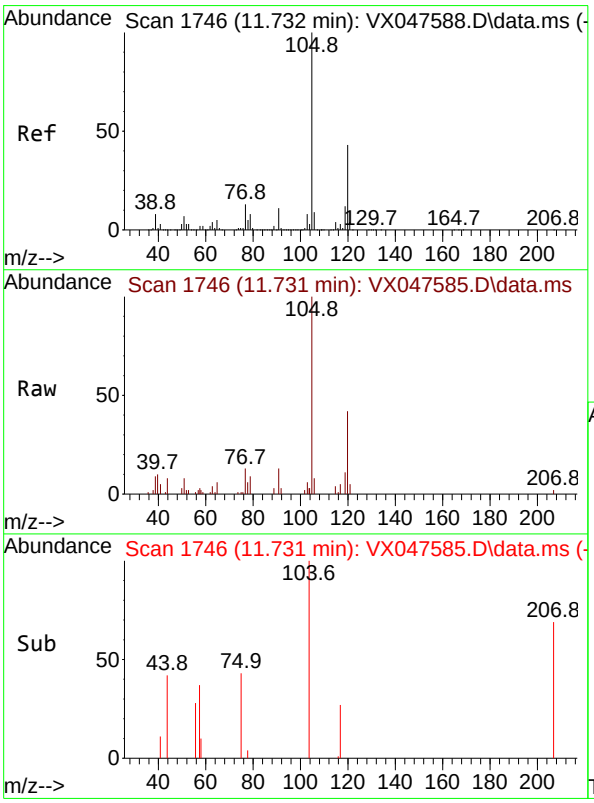
#83
tert-Butylbenzene
Concen: 0.876 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 11311

Ion	Ratio	Lower	Upper
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0

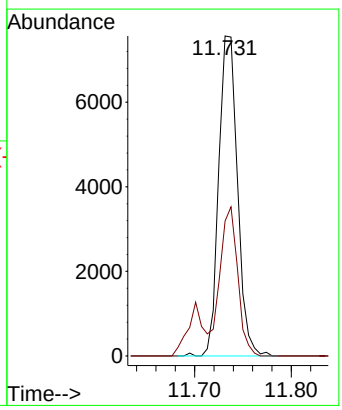


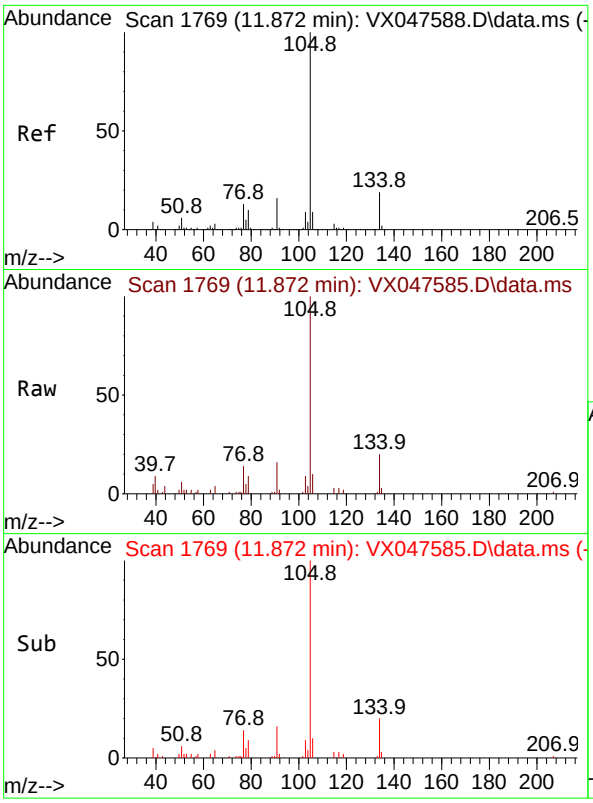


#84
1,2,4-Trimethylbenzene
Concen: 0.796 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 10187

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1



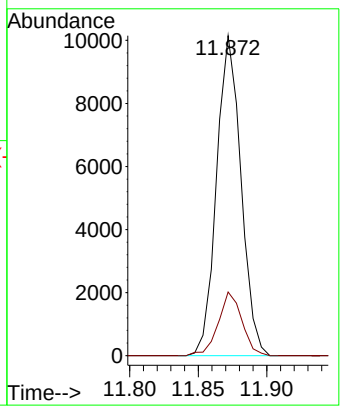


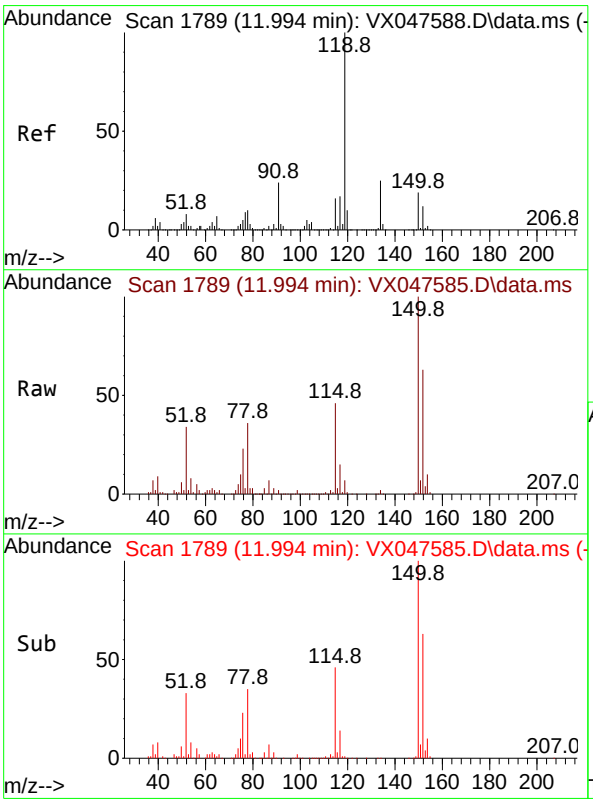
#85
sec-Butylbenzene
Concen: 0.819 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 12561

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.5

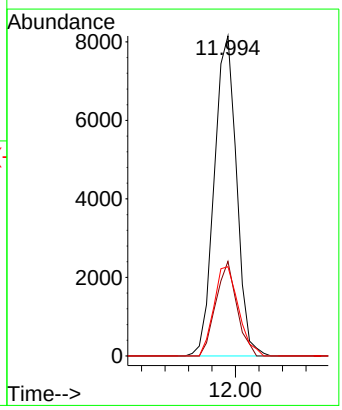


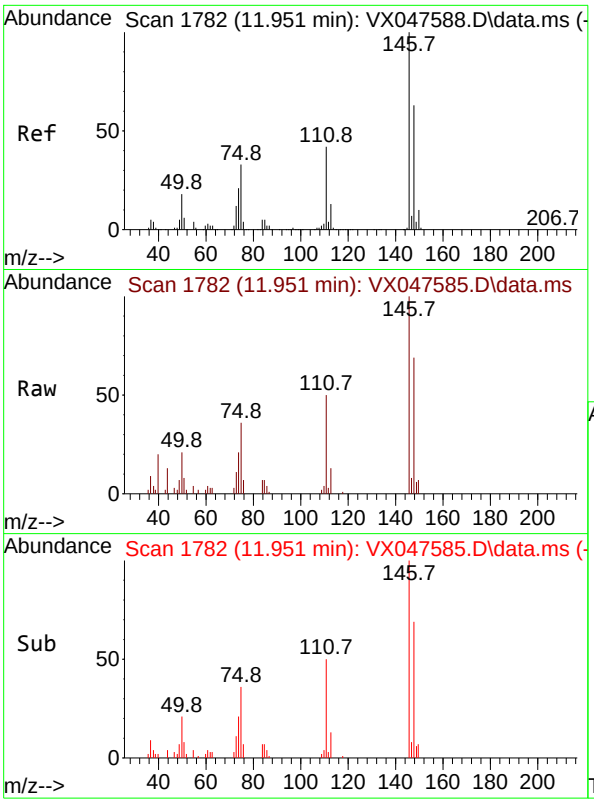


#86
p-Isopropyltoluene
Concen: 0.827 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 10744

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.6	37.8
91	30.8	12.6	37.6



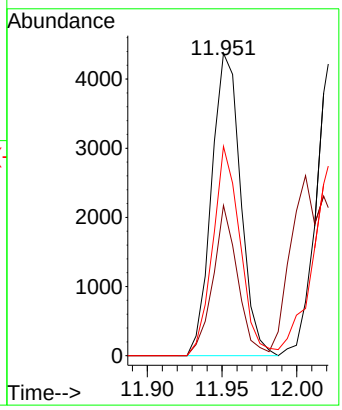


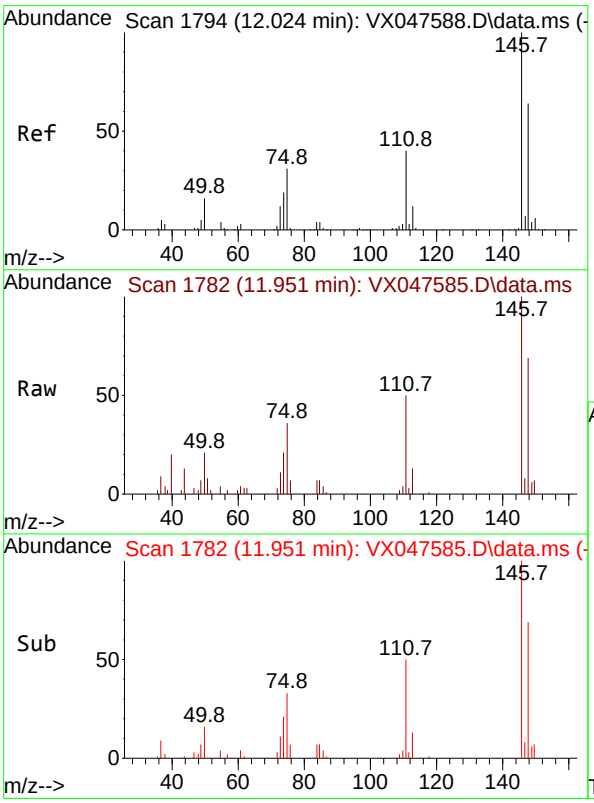
#87
1,3-Dichlorobenzene
Concen: 0.841 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 5907

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	65.5	32.0	96.0

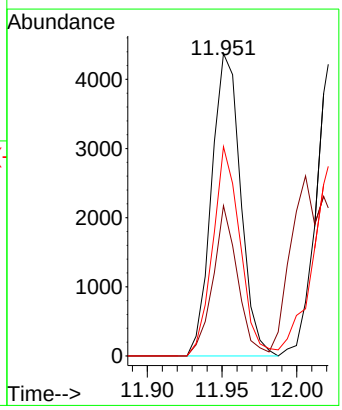


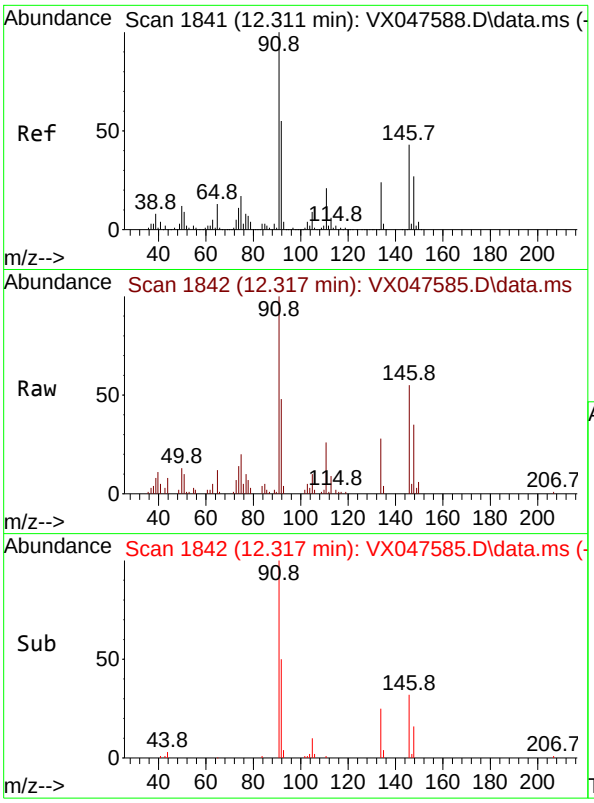


#88
1,4-Dichlorobenzene
Concen: 0.819 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.073 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 5907

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.8	62.4
148	65.5	31.7	95.1



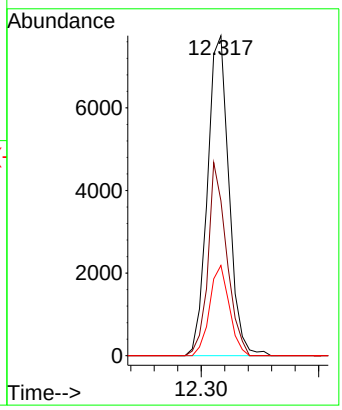


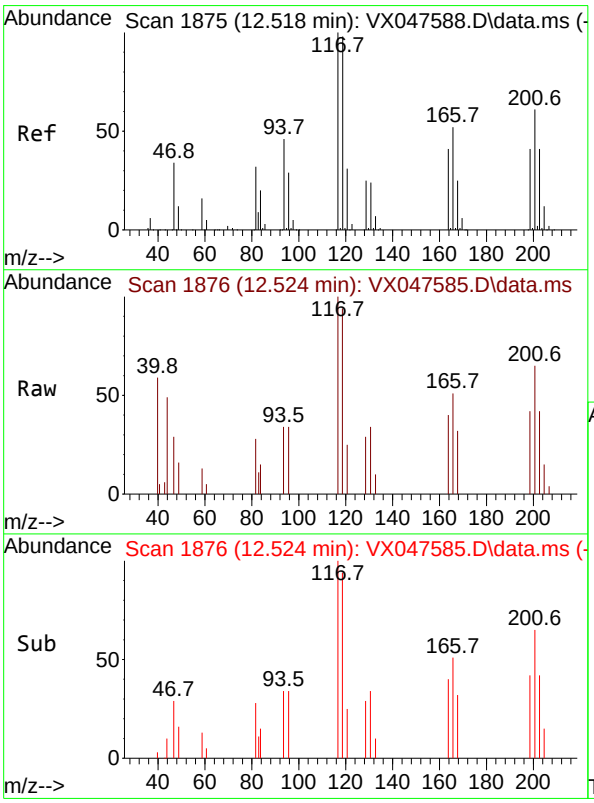
#89
n-Butylbenzene
Concen: 0.816 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 9811

Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.6	82.7
134	25.9	12.6	37.8

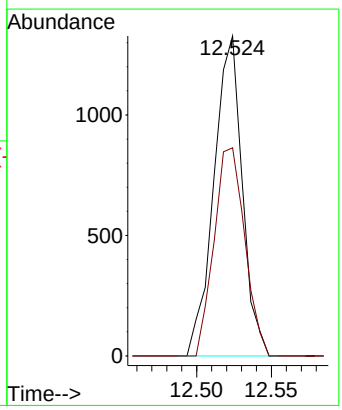


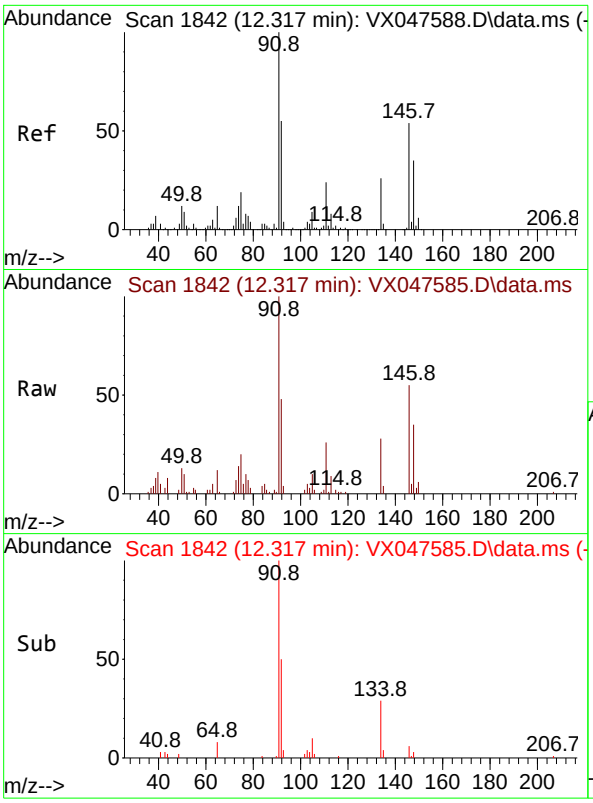


#90
Hexachloroethane
Concen: 0.768 ug/l
RT: 12.524 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 1752

Ion	Ratio	Lower	Upper
117	100		
201	70.4	34.2	102.5



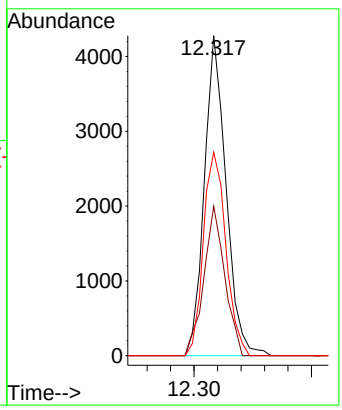


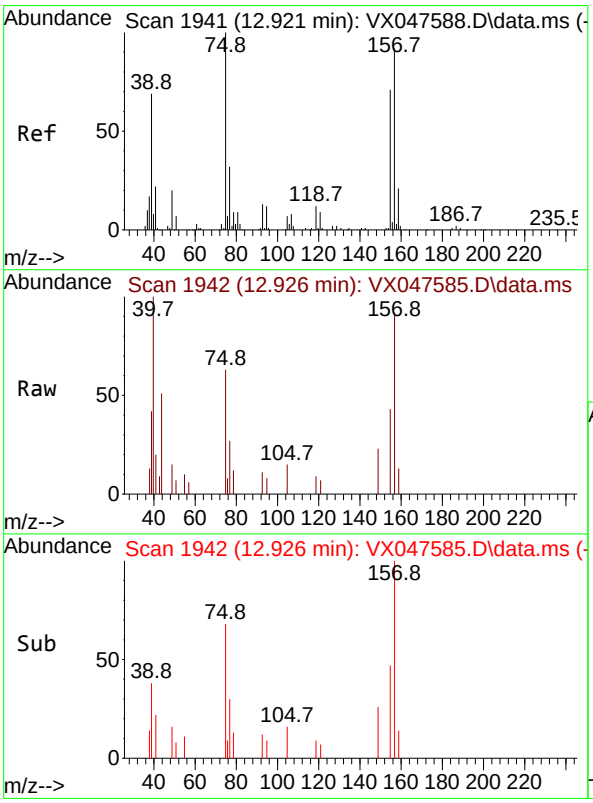
#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 5491

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.2	66.6
148	65.8	31.8	95.4

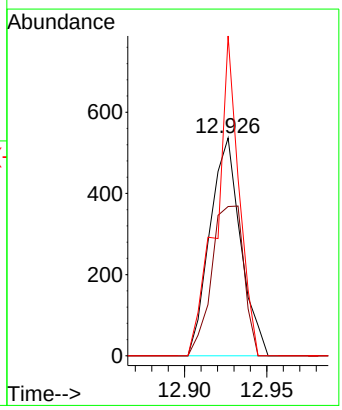


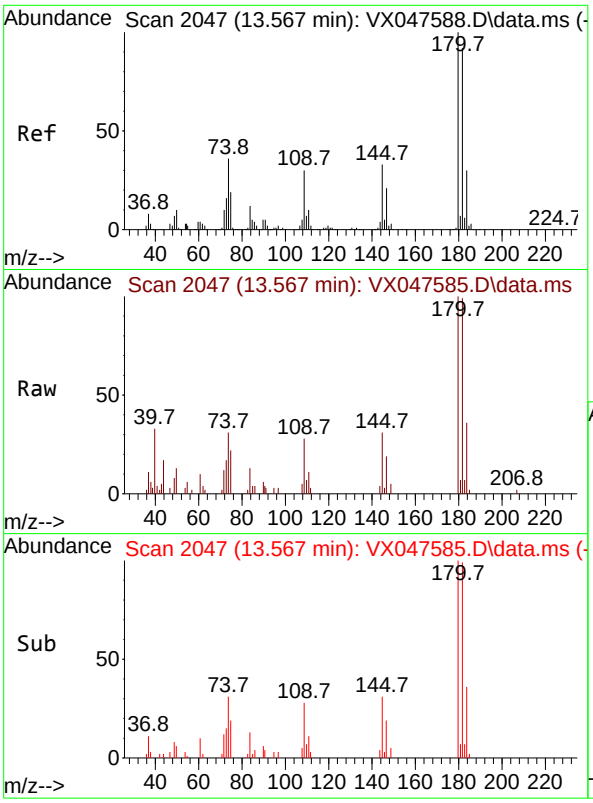


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.742 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 698

Ion	Ratio	Lower	Upper
75	100		
155	72.1	37.7	113.1
157	108.7	49.8	149.4



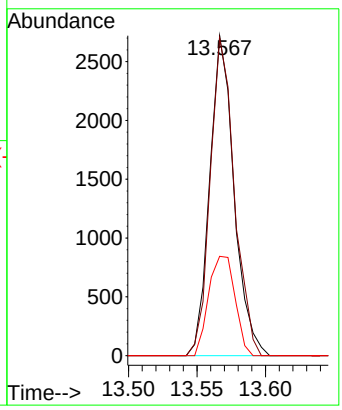


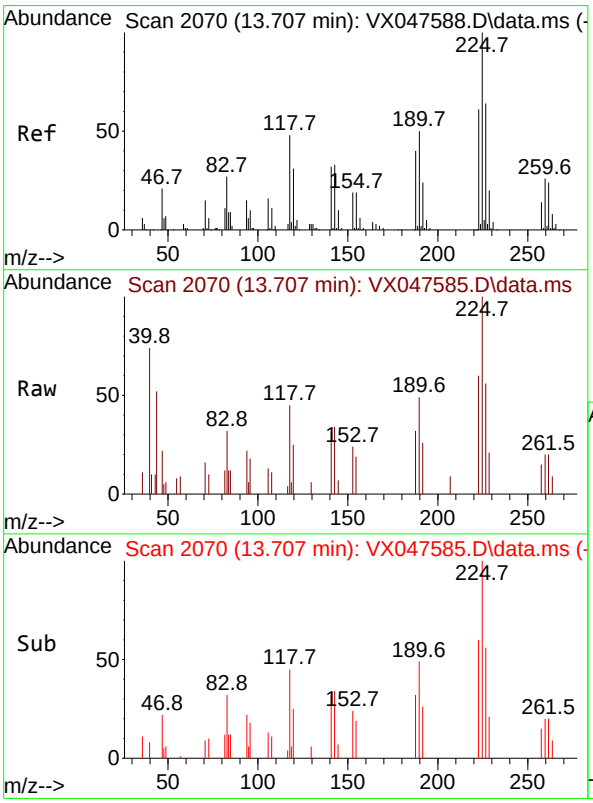
#93
1,2,4-Trichlorobenzene
Concen: 0.772 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 3358

Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.6	139.8
145	33.7	16.4	49.1

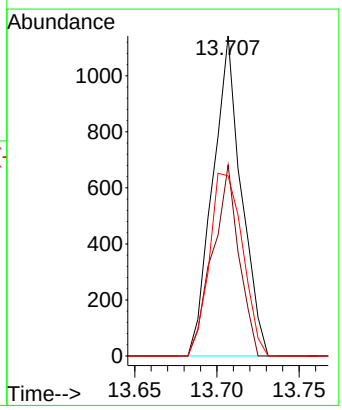


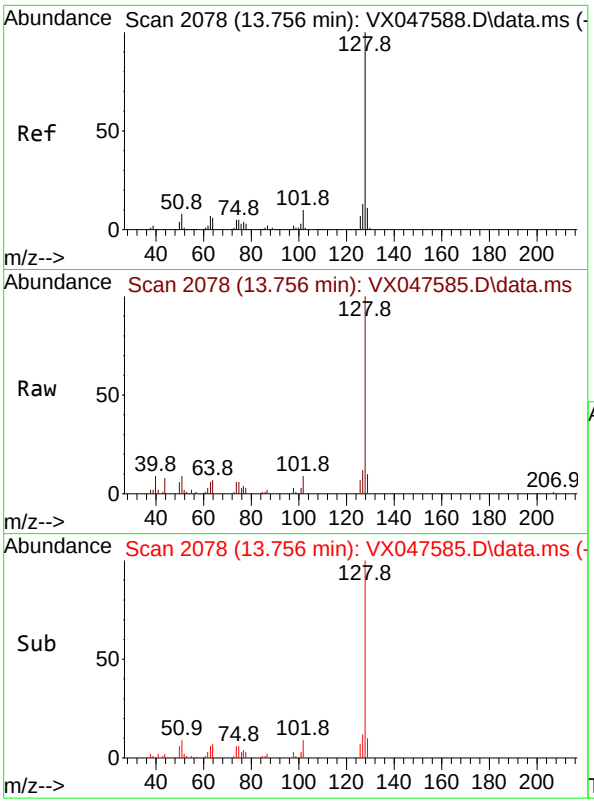


#94
Hexachlorobutadiene
Concen: 0.933 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:225 Resp: 1378

Ion	Ratio	Lower	Upper
225	100		
223	54.8	31.7	95.1
227	66.7	32.0	96.0



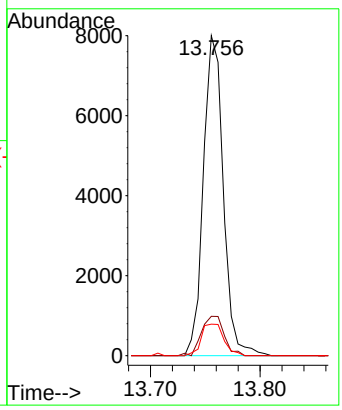


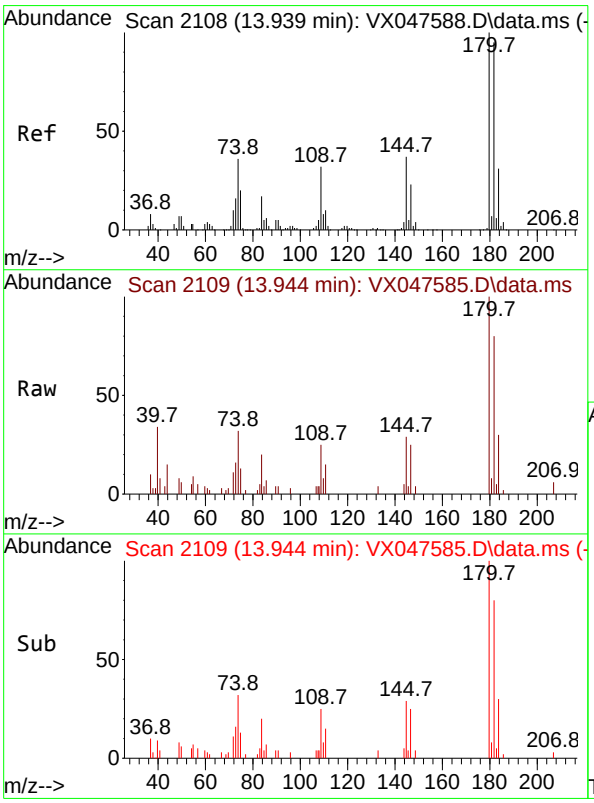
#95
Naphthalene
Concen: 0.763 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 10112

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.2	15.2
129	11.2	8.8	13.2

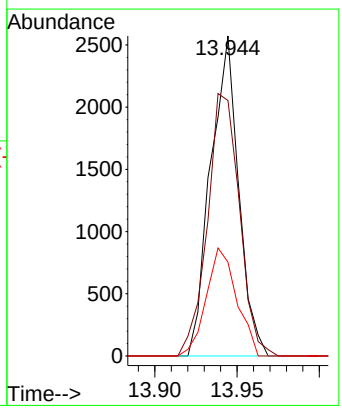




#96
1,2,3-Trichlorobenzene
Concen: 0.752 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 3043

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.6	142.8
145	36.6	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	11.100%#			
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.620%#			
50) Toluene-d8	8.635	98	43926	5.332	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#			
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.860%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l		93
3) Chloromethane	1.301	50	14854	5.502	ug/l		99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l		97
5) Bromomethane	1.618	94	9780	5.836	ug/l		87
6) Chloroethane	1.697	64	8926	5.053	ug/l		96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l		100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l		93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l		98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l		98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l		99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l		91
13) Acrolein	2.239	56	7080	21.847	ug/l		95
14) Allyl chloride	2.666	41	25135	5.168	ug/l		99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l		99
16) Acetone	2.374	43	41297	30.079	ug/l		97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l		100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l		98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l		94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l		97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l		98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l		99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l		97
25) 2-Butanone	4.544	43	46651	27.240	ug/l		92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l		99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l		98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l		95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l		92
30) Chloroform	5.080	83	27054	5.344	ug/l		99
31) Cyclohexane	5.458	56	23032	5.520	ug/l		94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l		96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l		98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l	#	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l		96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l		97
40) Benzene	6.019	78	55996	5.299	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883	ug/l		95
42) 1,2-Dichloroethane	6.074	62	21117	5.252	ug/l		99
43) Isopropyl Acetate	6.324	43	31304	5.124	ug/l		99
44) Trichloroethene	7.111	130	13576	5.314	ug/l		97
45) 1,2-Dichloropropane	7.415	63	14305	5.287	ug/l		99
46) Dibromomethane	7.568	93	10133	5.146	ug/l		99
47) Bromodichloromethane	7.806	83	21270	5.235	ug/l		99
48) Methyl methacrylate	7.677	41	14959	4.915	ug/l		99
49) 1,4-Dioxane	7.653	88	3017	98.096	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828	ug/l		100
52) Toluene	8.702	92	34314	5.271	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034	ug/l		97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166	ug/l		91
56) Ethyl methacrylate	9.104	69	19980	5.068	ug/l		97
57) 1,3-Dichloropropane	9.293	76	22989	5.331	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899	ug/l		98
59) 2-Hexanone	9.415	43	66356	27.275	ug/l		99
60) Dibromochloromethane	9.506	129	14705	5.084	ug/l		95
61) 1,2-Dibromoethane	9.592	107	13461	5.264	ug/l		98
64) Tetrachloroethene	9.256	164	11228	5.428	ug/l		97
65) Chlorobenzene	10.061	112	37507	5.203	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149	ug/l		99
67) Ethyl Benzene	10.177	91	65908	5.299	ug/l		100
68) m/p-Xylenes	10.287	106	49132	10.613	ug/l		99
69) o-Xylene	10.628	106	23300	5.204	ug/l		98
70) Styrene	10.640	104	40872	5.210	ug/l		99
71) Bromoform	10.781	173	9298	5.006	ug/l	#	97
73) Isopropylbenzene	10.945	105	61029	5.139	ug/l		100
74) N-amyl acetate	10.823	43	26969	4.980	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138	ug/l		98
76) 1,2,3-Trichloropropane	11.220	75	18494	5.847	ug/l		96
77) Bromobenzene	11.183	156	15066	5.150	ug/l		99
78) n-propylbenzene	11.287	91	72900	5.192	ug/l		100
79) 2-Chlorotoluene	11.348	91	44663	5.194	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364	ug/l		91
82) 4-Chlorotoluene	11.439	91	52294	5.149	ug/l		100
83) tert-Butylbenzene	11.695	119	50350	5.041	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214	ug/l		100
85) sec-Butylbenzene	11.872	105	62507	5.268	ug/l		99
86) p-Isopropyltoluene	11.994	119	52674	5.244	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294	ug/l		93
89) n-Butylbenzene	12.317	91	47953	5.159	ug/l		99
90) Hexachloroethane	12.518	117	8830	5.007	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690	ug/l		99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103	ug/l		98
94) Hexachlorobutadiene	13.707	225	5894	5.158	ug/l		99
95) Naphthalene	13.756	128	49257	4.808	ug/l		99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

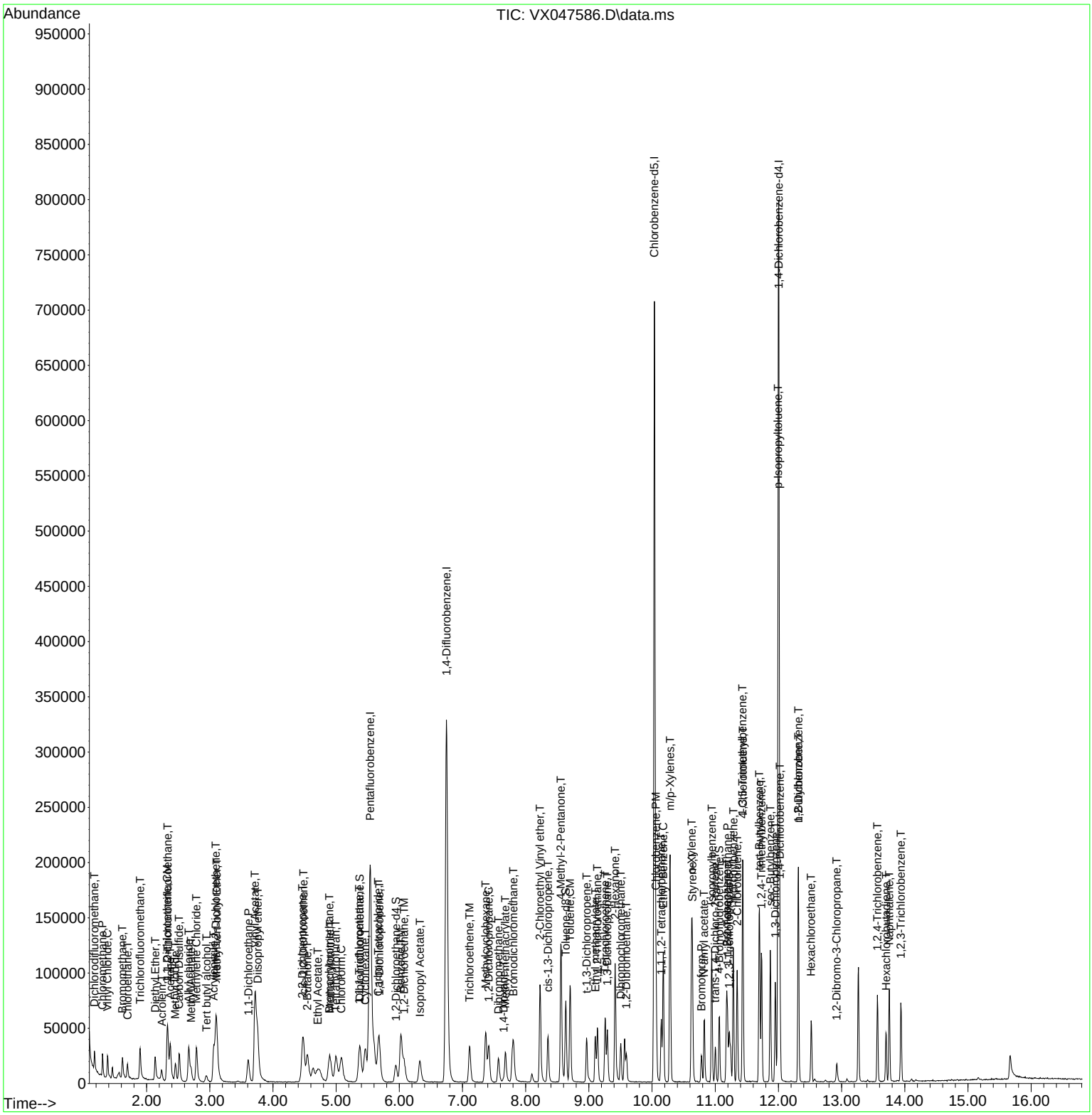
(#) = qualifier out of range (m) = manual integration (+) = signals summed

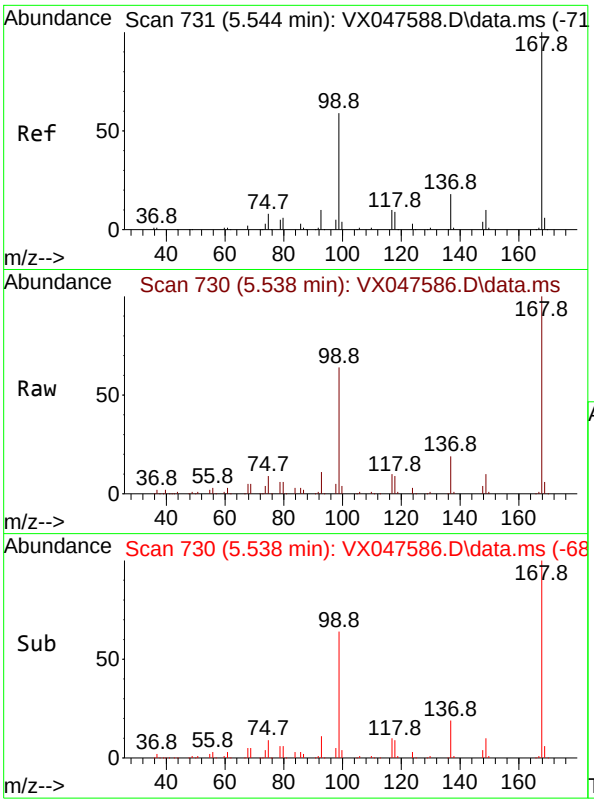
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



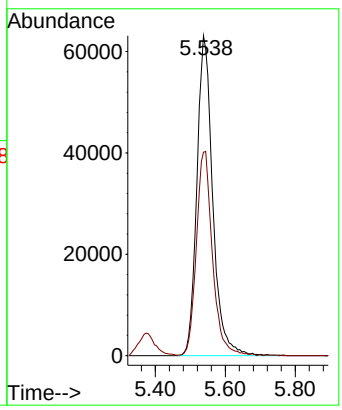


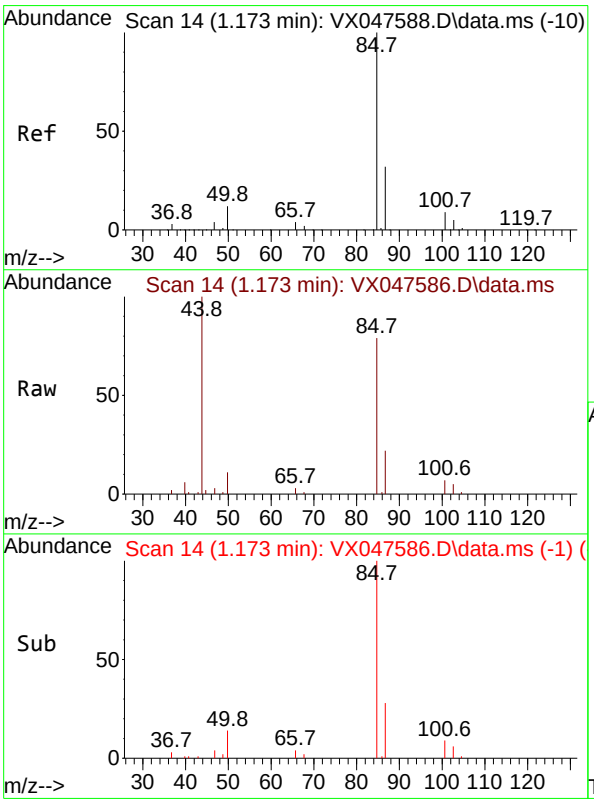
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 198376

Ion	Ratio	Lower	Upper
168	100		
99	63.5	48.8	73.2

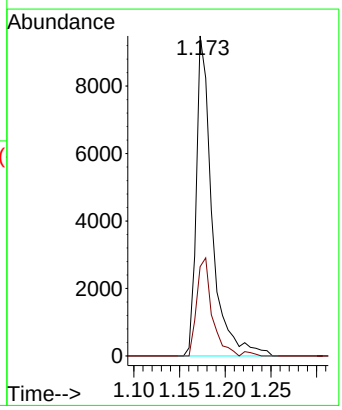


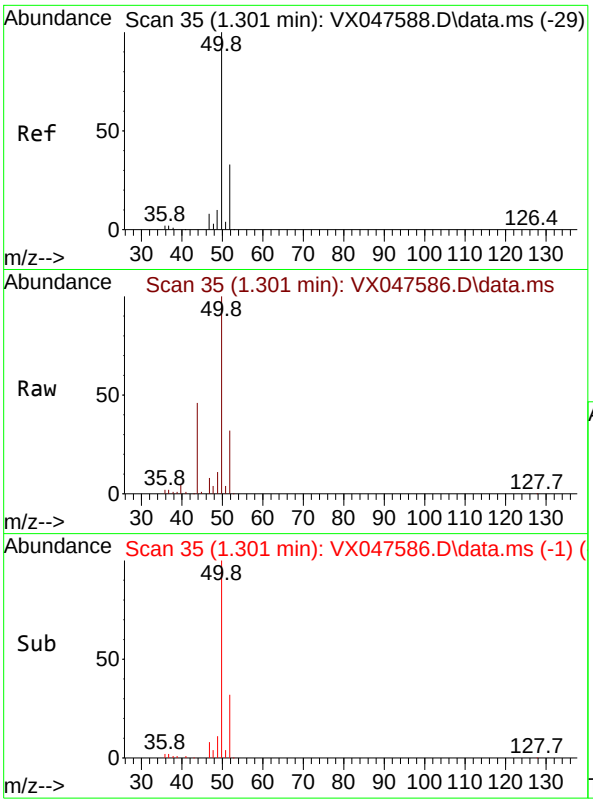


#2
Dichlorodifluoromethane
Concen: 5.551 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 85 Resp: 11403

Ion	Ratio	Lower	Upper
85	100		
87	27.9	15.8	47.3



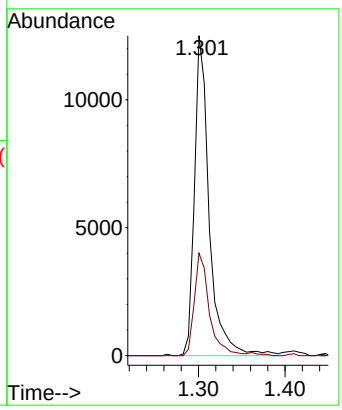


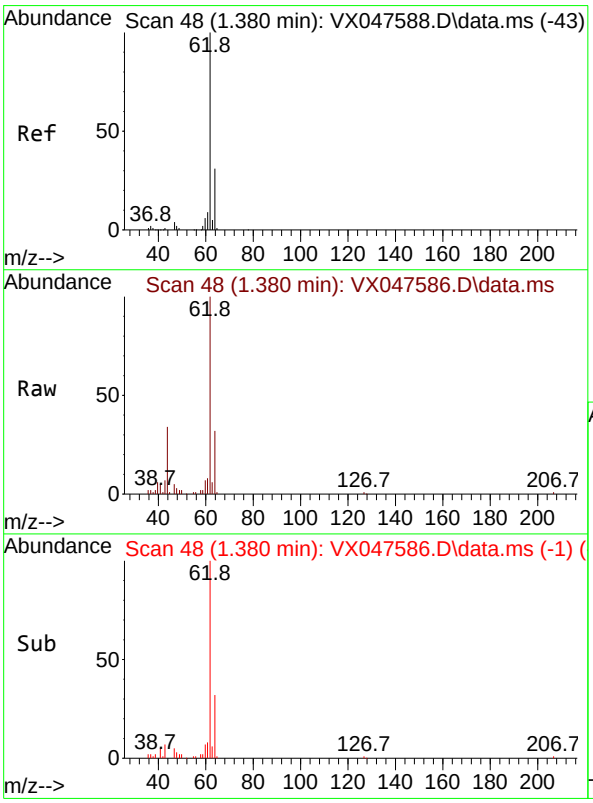
#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 14854

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.1	39.1

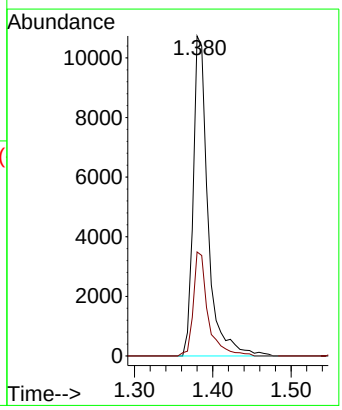


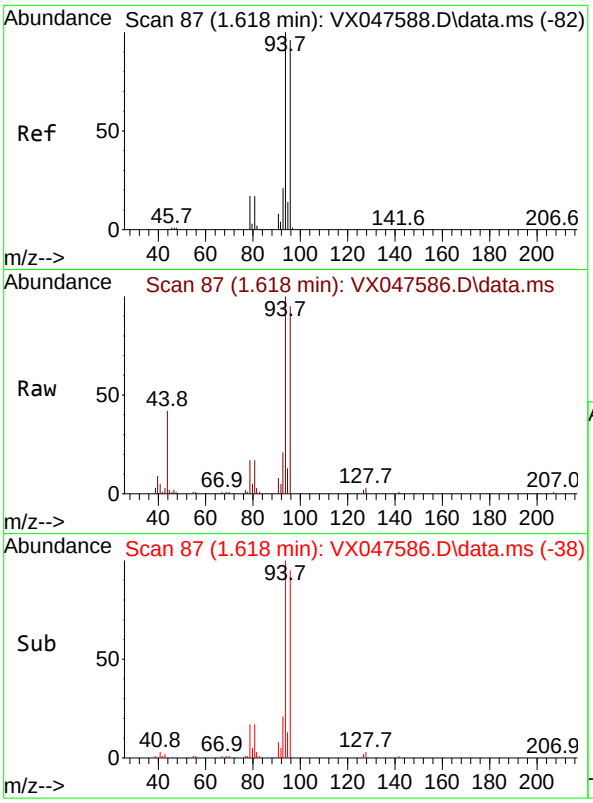


#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 14147

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3



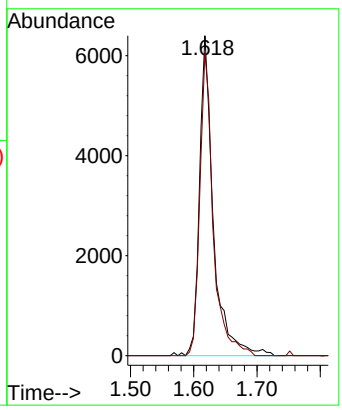


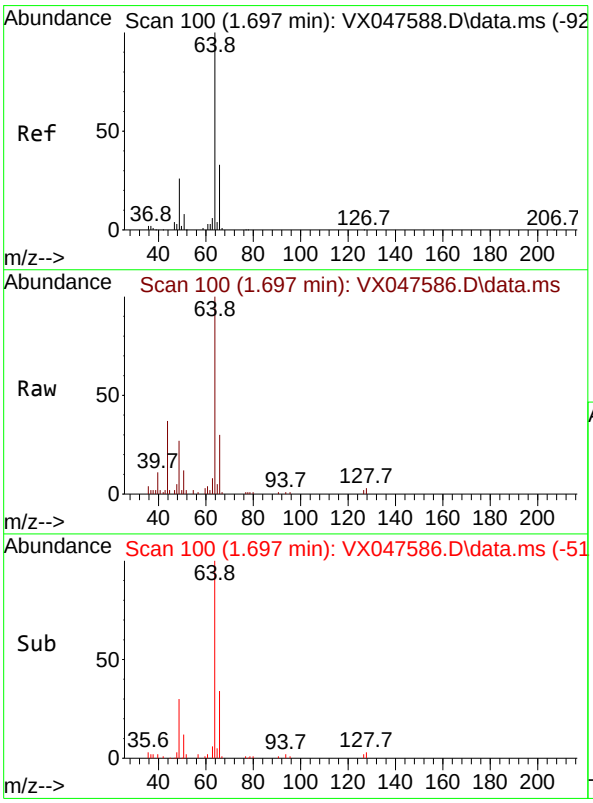
#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 9780

Ion	Ratio	Lower	Upper
94	100		
96	83.6	76.6	115.0

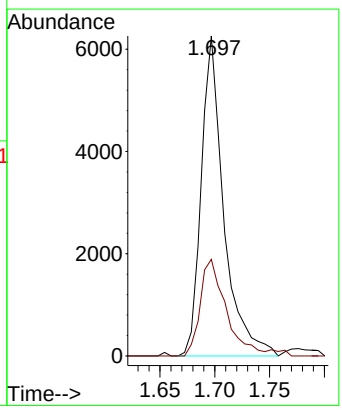


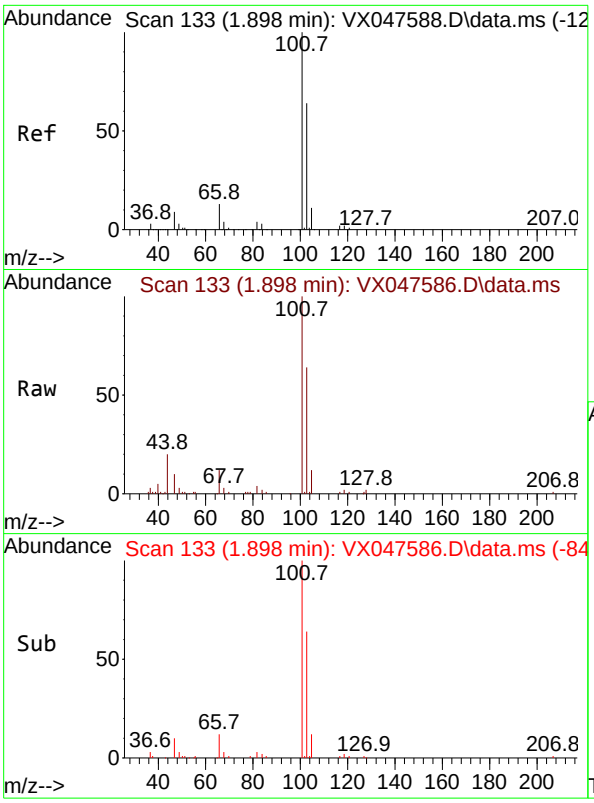


#6
Chloroethane
Concen: 5.053 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 64 Resp: 8926

Ion	Ratio	Lower	Upper
64	100		
66	30.2	26.1	39.1



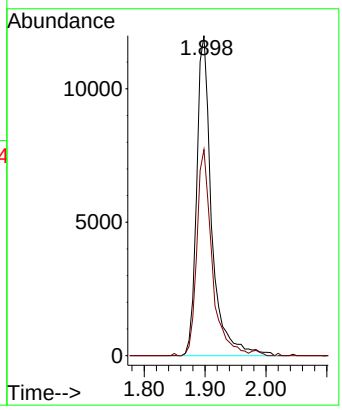


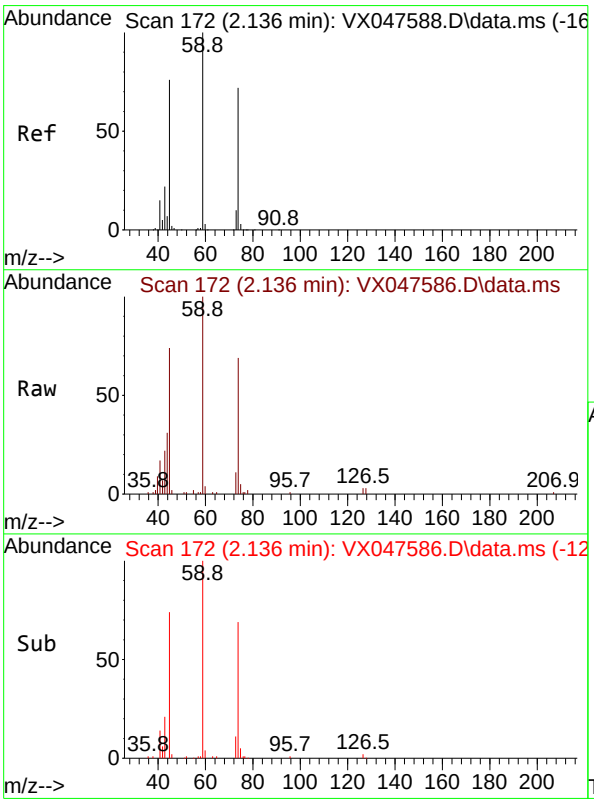
#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 20497

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

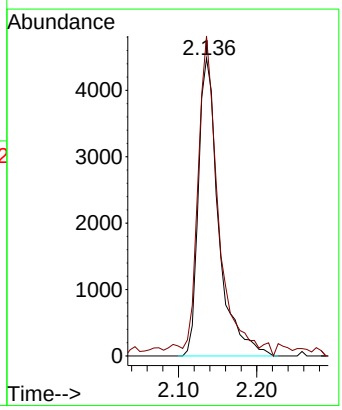


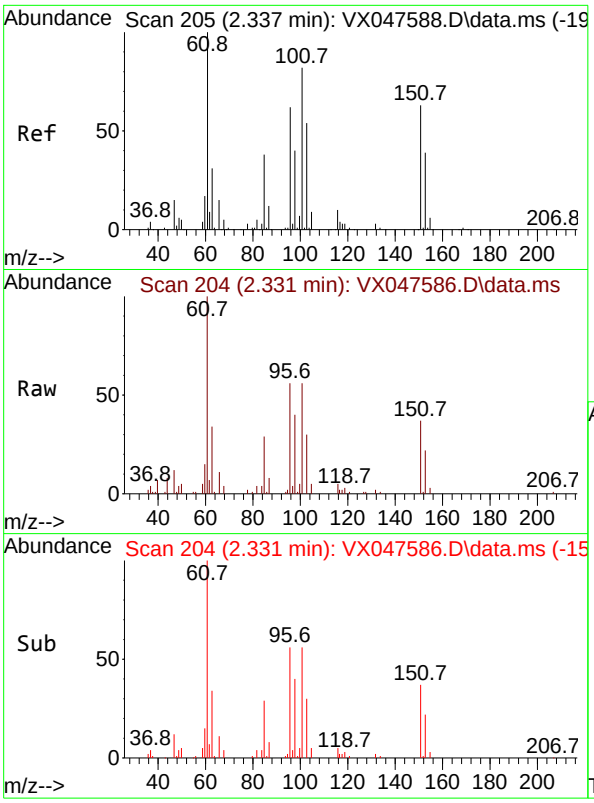


#8
Diethyl Ether
Concen: 5.008 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 74 Resp: 8039

Ion	Ratio	Lower	Upper
74	100		
45	111.7	52.3	156.8



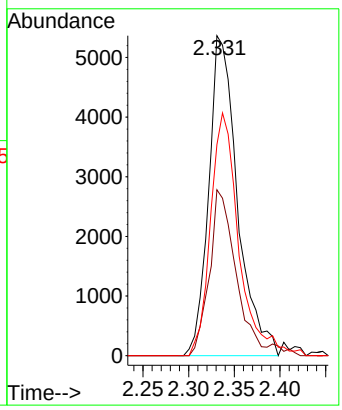


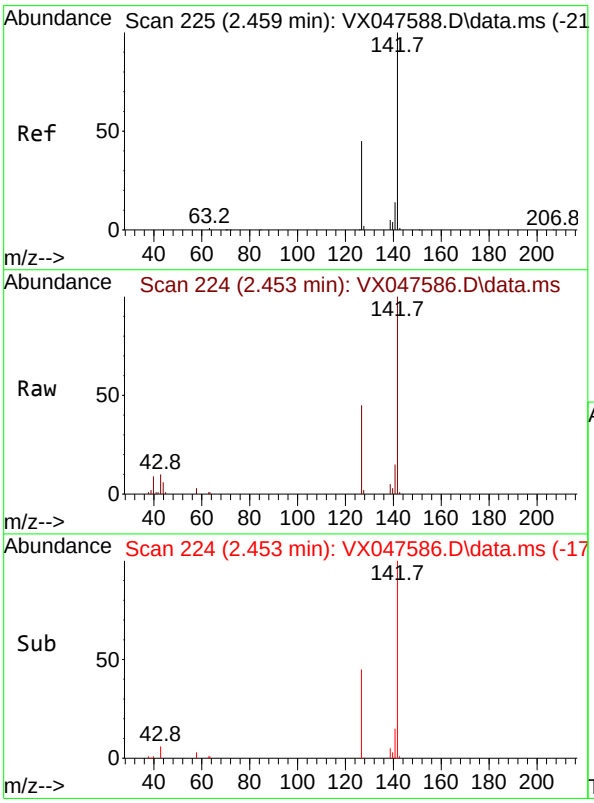
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.112 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 11729

Ion	Ratio	Lower	Upper
101	100		
85	47.5	35.5	53.3
151	75.0	59.4	89.0

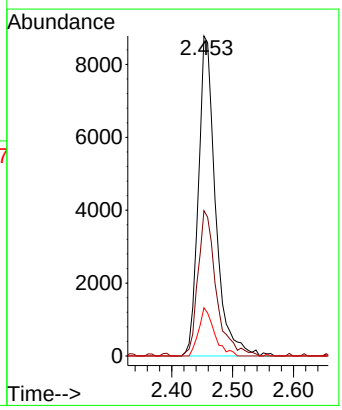


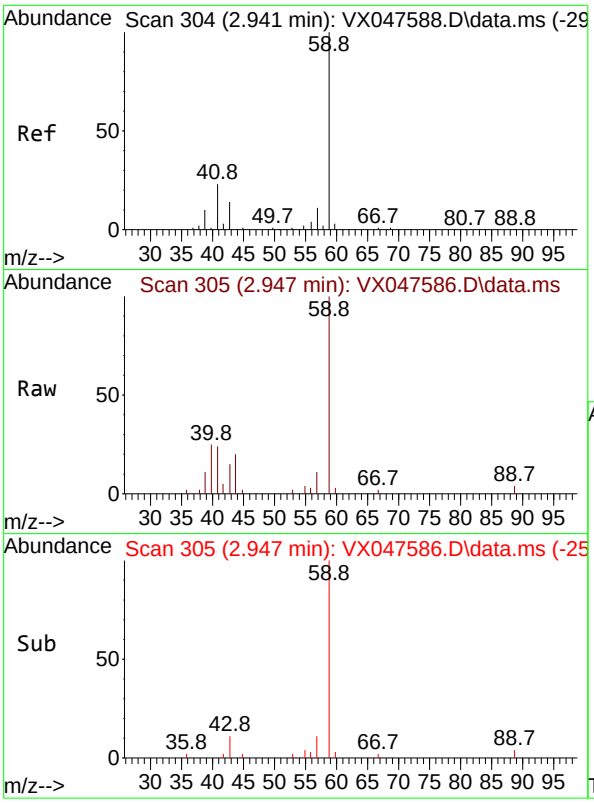


#10
Methyl Iodide
Concen: 4.795 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:142 Resp: 17159

Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.2	55.8
141	13.8	11.4	17.0



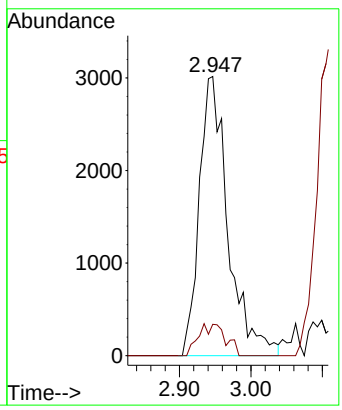


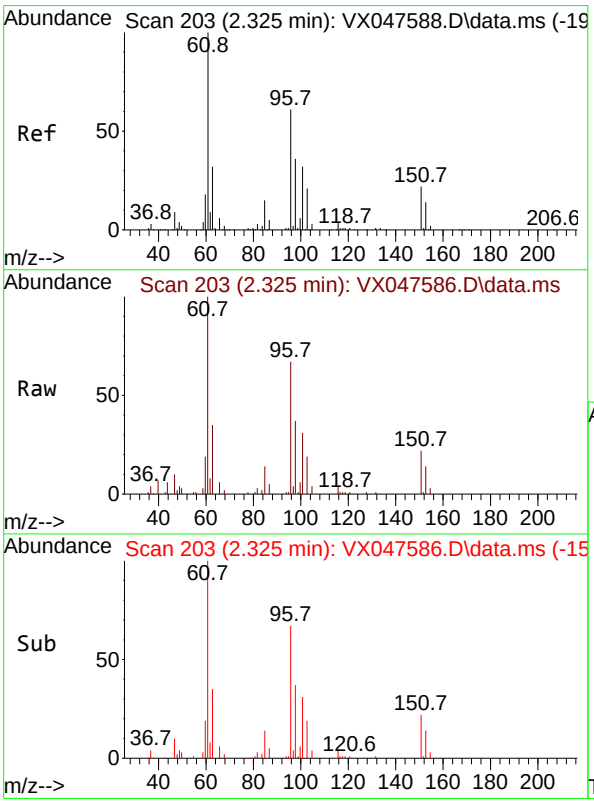
#11
Tert butyl alcohol
Concen: 23.883 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 8399

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.3	12.5

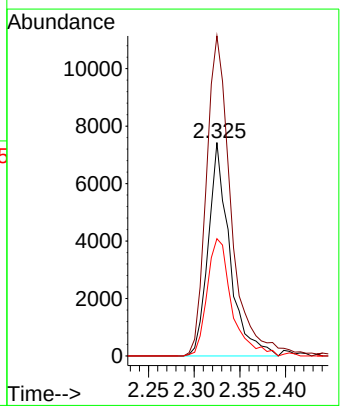


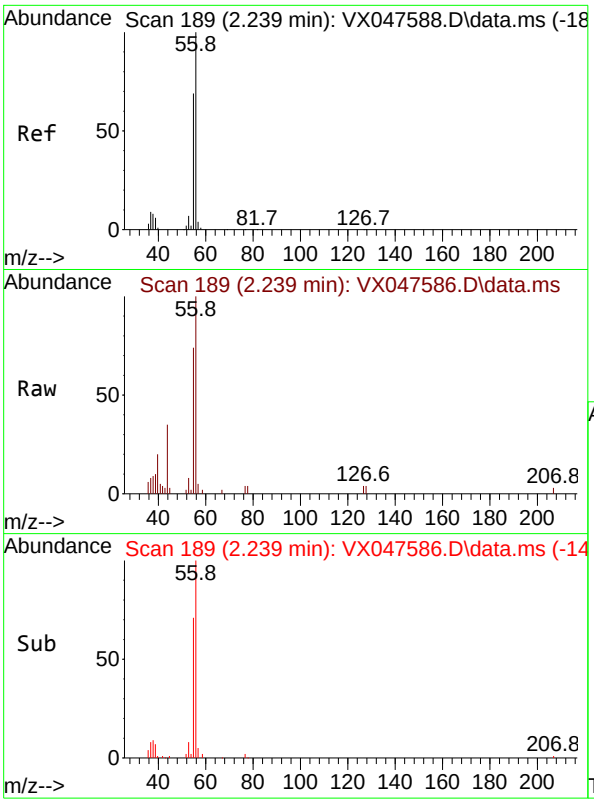


#12
1,1-Dichloroethene
Concen: 5.147 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 12131

Ion	Ratio	Lower	Upper
96	100		
61	149.9	131.0	196.6
98	54.9	47.7	71.5



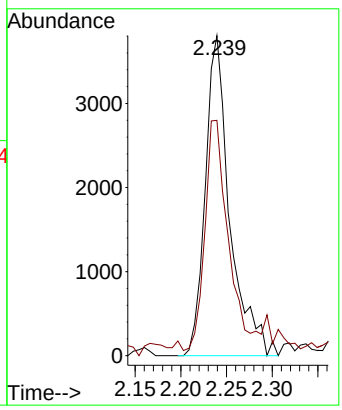


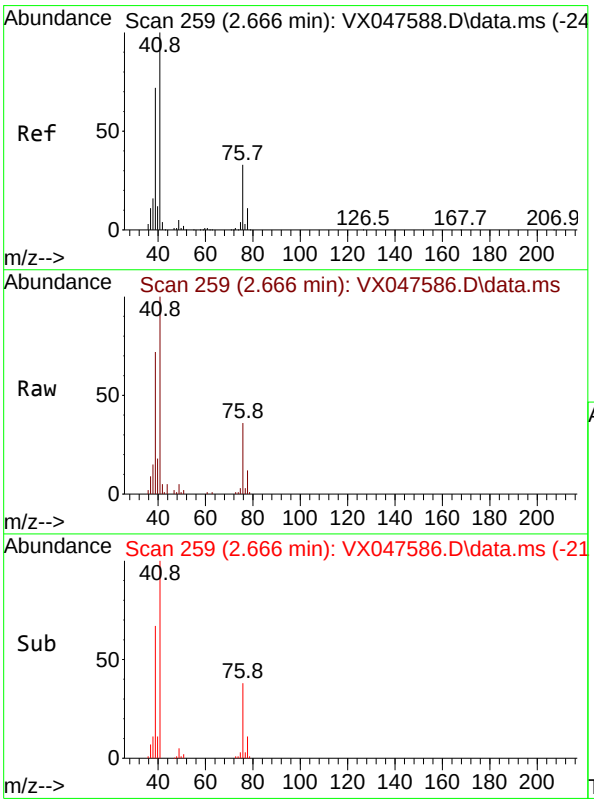
#13
Acrolein
Concen: 21.847 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 7080

Ion	Ratio	Lower	Upper
56	100		
55	67.1	57.2	85.8

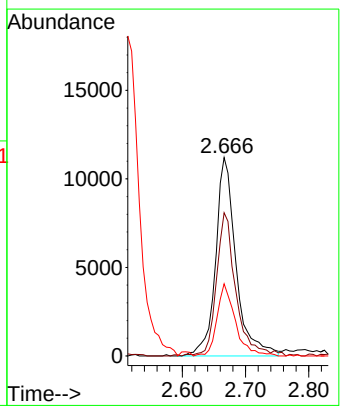


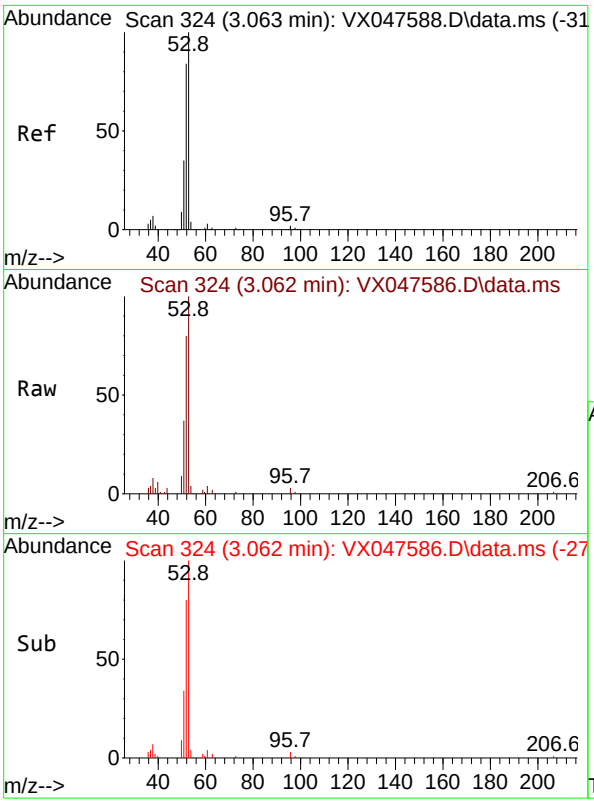


#14
Allyl chloride
Concen: 5.168 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 25135

Ion	Ratio	Lower	Upper
41	100		
39	69.1	54.7	82.1
76	32.4	25.7	38.5



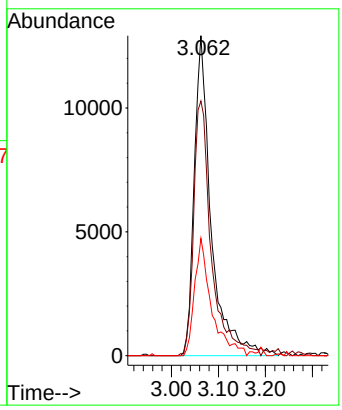


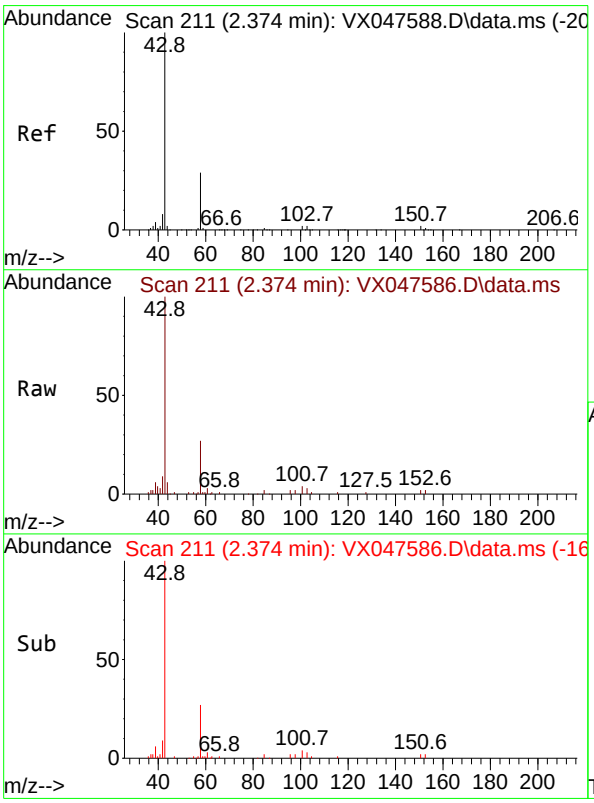
#15
Acrylonitrile
Concen: 25.016 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 32587

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	36.5	29.5	44.3

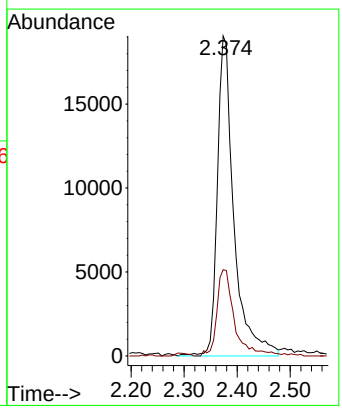


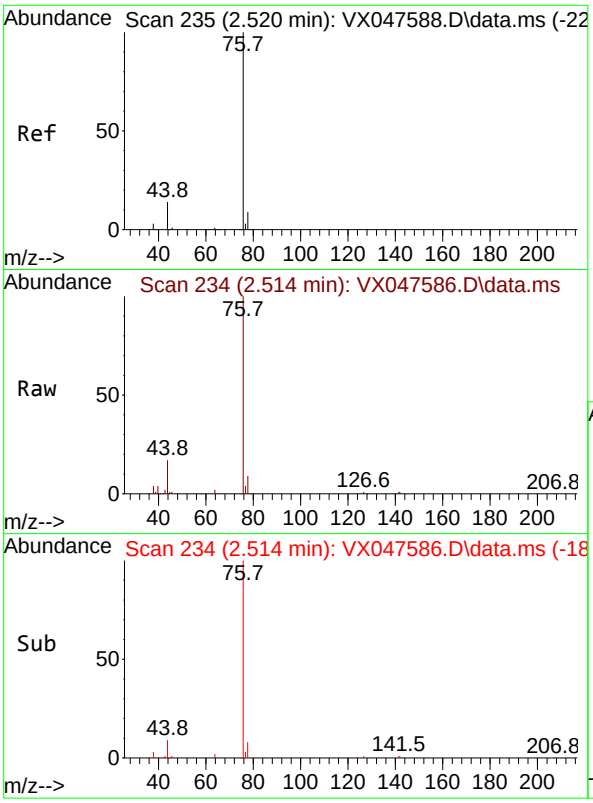


#16
Acetone
Concen: 30.079 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 41297

Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.4	35.0



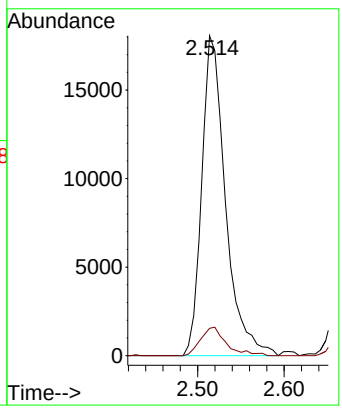


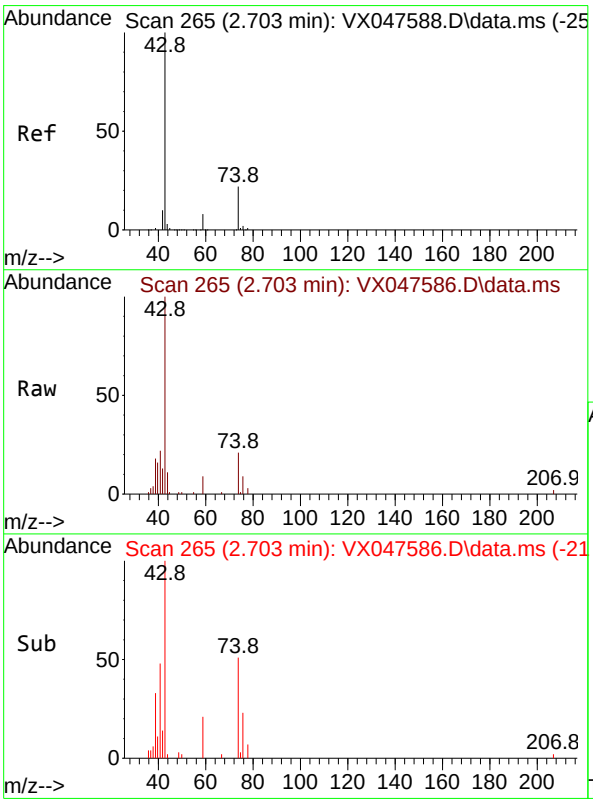
#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 34426

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2

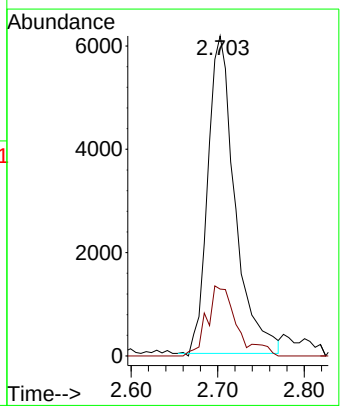


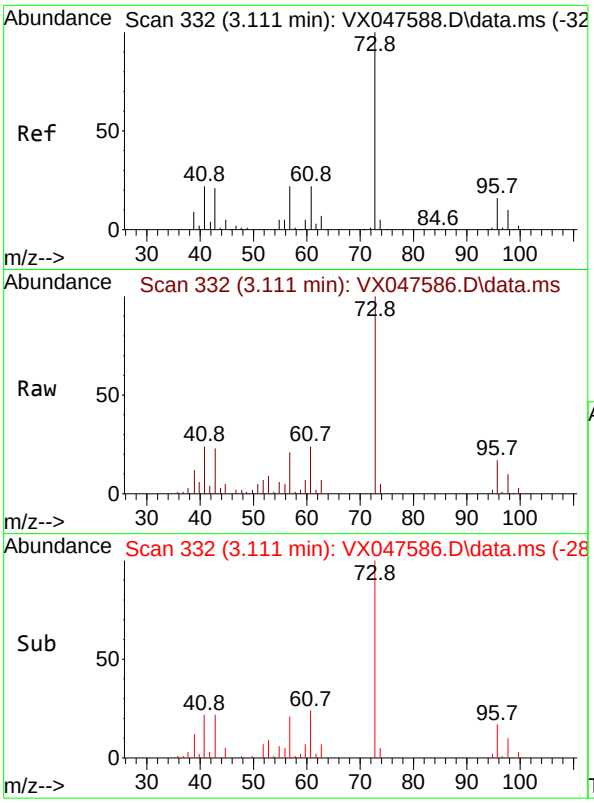


#18
Methyl Acetate
Concen: 4.371 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 13357

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2



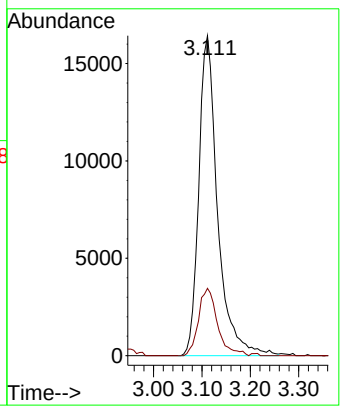


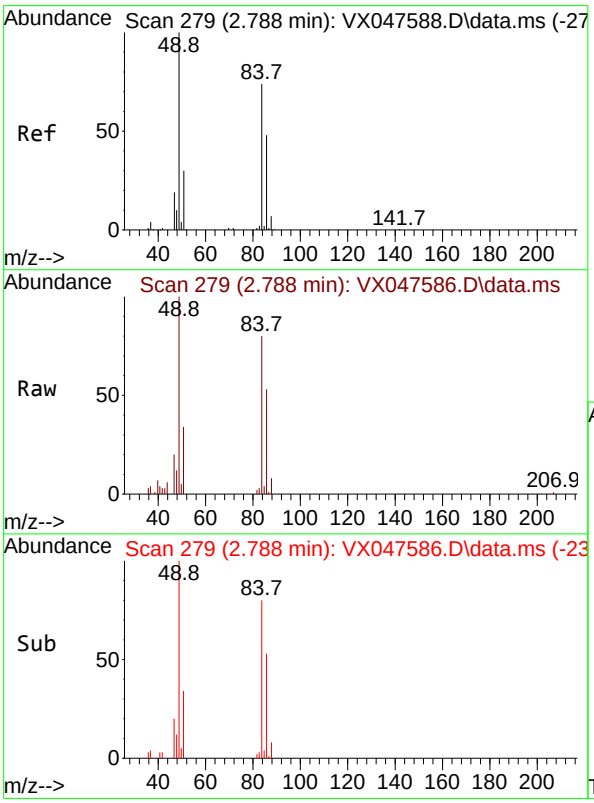
#19
Methyl tert-butyl Ether
Concen: 5.160 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 44396

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2

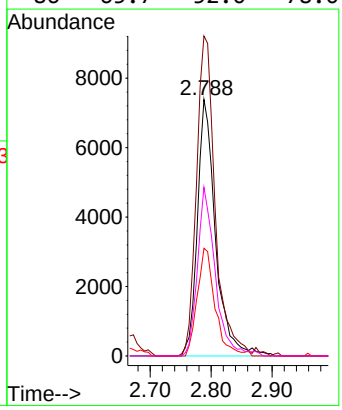


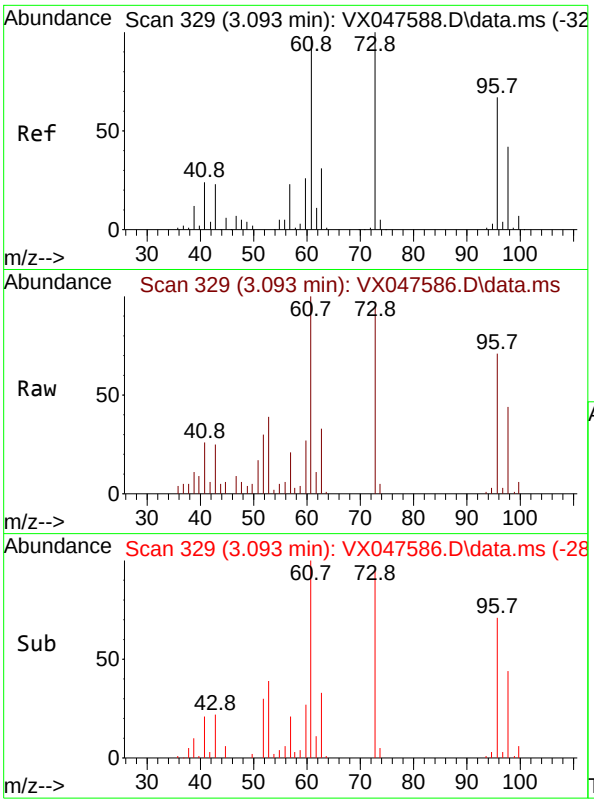


#20
Methylene Chloride
Concen: 5.267 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 84 Resp: 15307

Ion	Ratio	Lower	Upper
84	100		
49	124.7	108.6	162.8
51	42.0	32.6	48.8
86	65.7	52.0	78.0



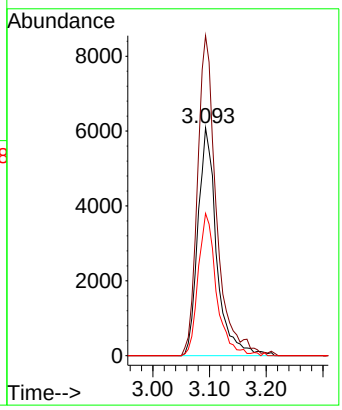


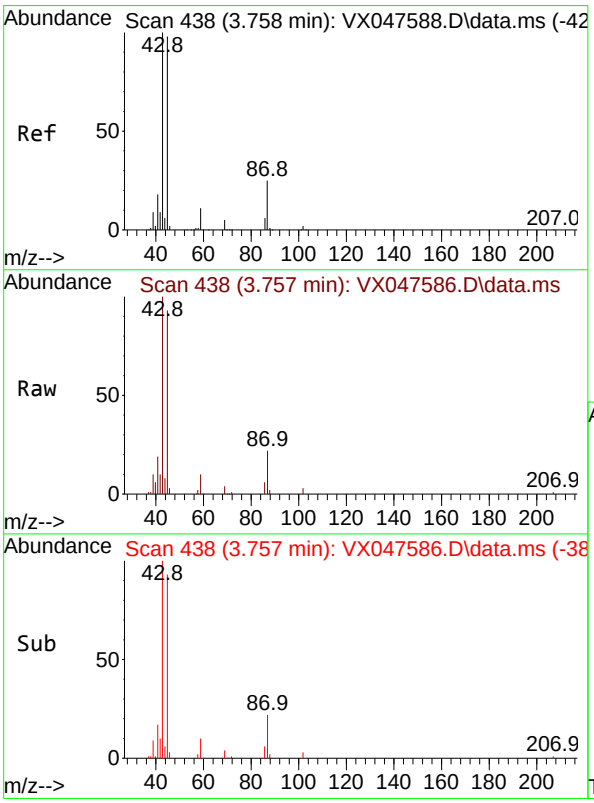
#21
trans-1,2-Dichloroethene
Concen: 5.492 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 13937

Ion	Ratio	Lower	Upper
96	100		
61	140.4	116.2	174.2
98	62.4	49.3	73.9

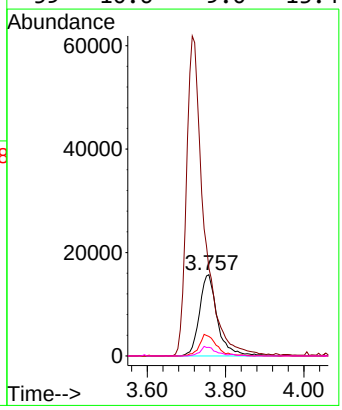


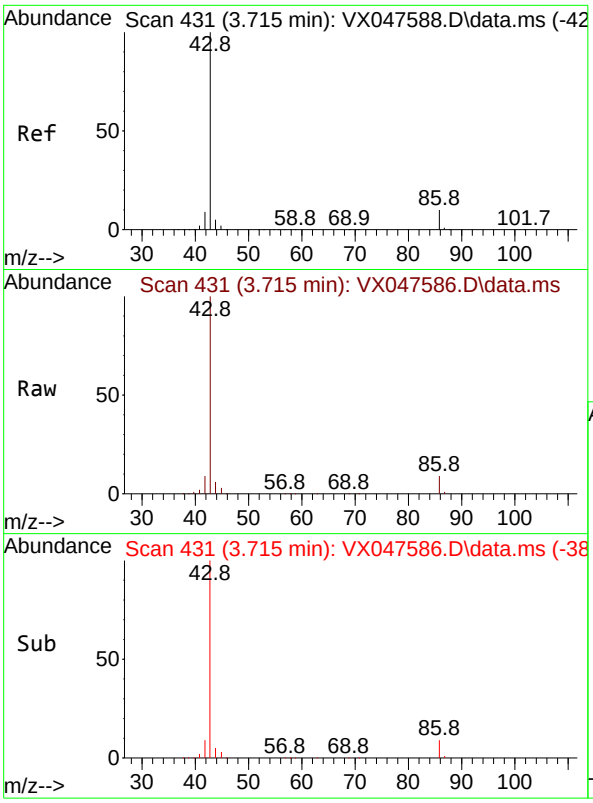


#22
Diisopropyl ether
Concen: 5.327 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 45 Resp: 50213

Ion	Ratio	Lower	Upper
45	100		
43	102.8	81.0	121.4
87	23.3	20.3	30.5
59	10.6	9.0	13.4



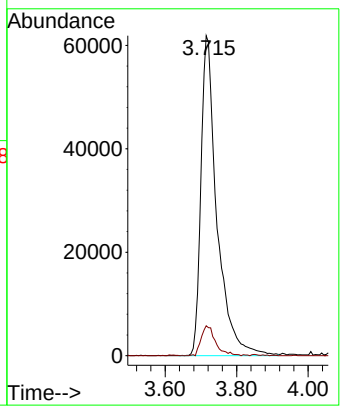


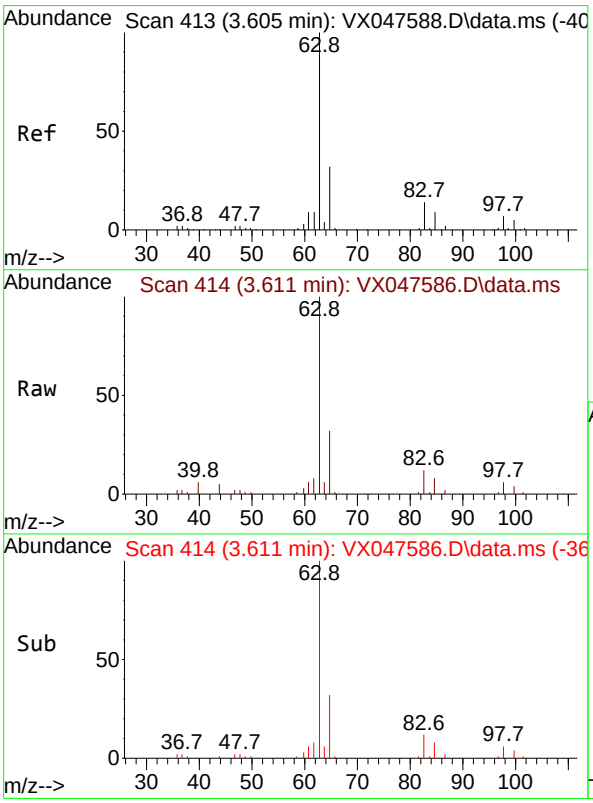
#23
Vinyl Acetate
Concen: 25.474 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 192175

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.8	11.8

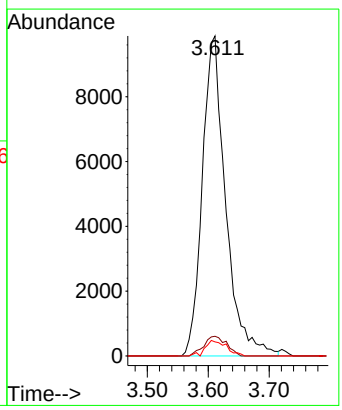


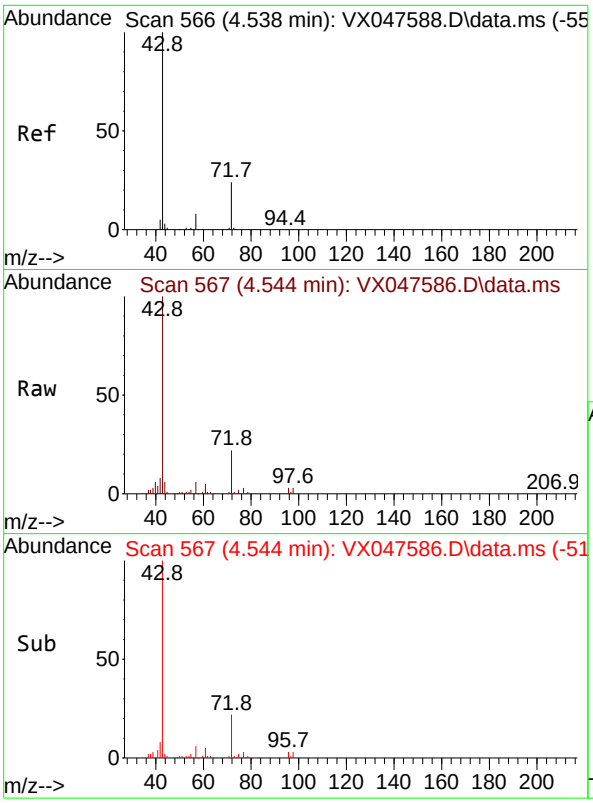


#24
1,1-Dichloroethane
Concen: 5.248 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 26292

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.4	2.3	6.9



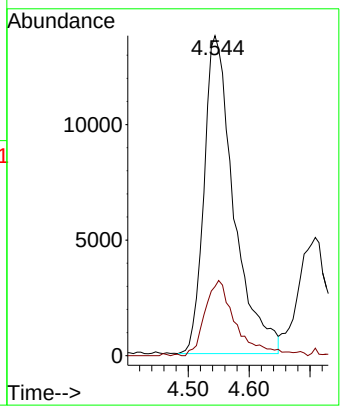


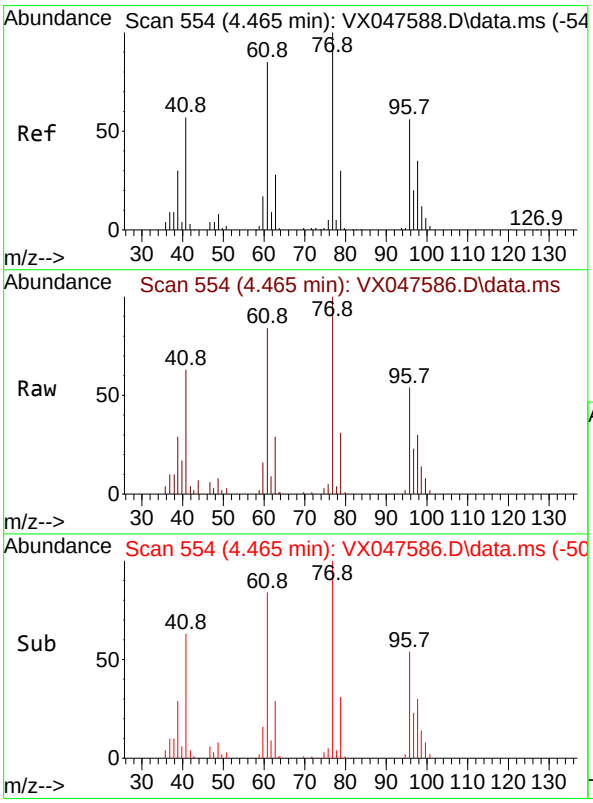
#25
2-Butanone
Concen: 27.240 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 46651

Ion	Ratio	Lower	Upper
43	100		
72	21.3	20.1	30.1

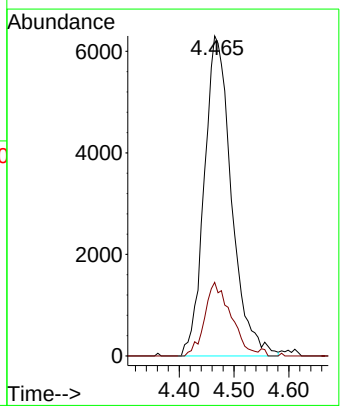


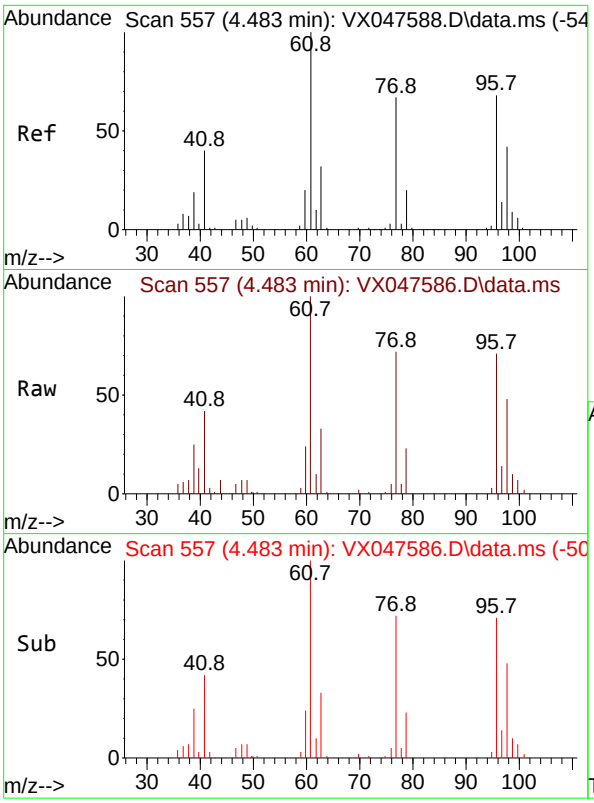


#26
2,2-Dichloropropane
Concen: 5.220 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 77 Resp: 21738

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7



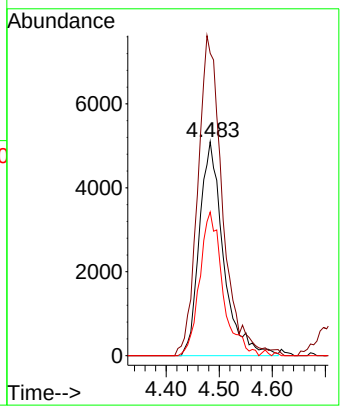


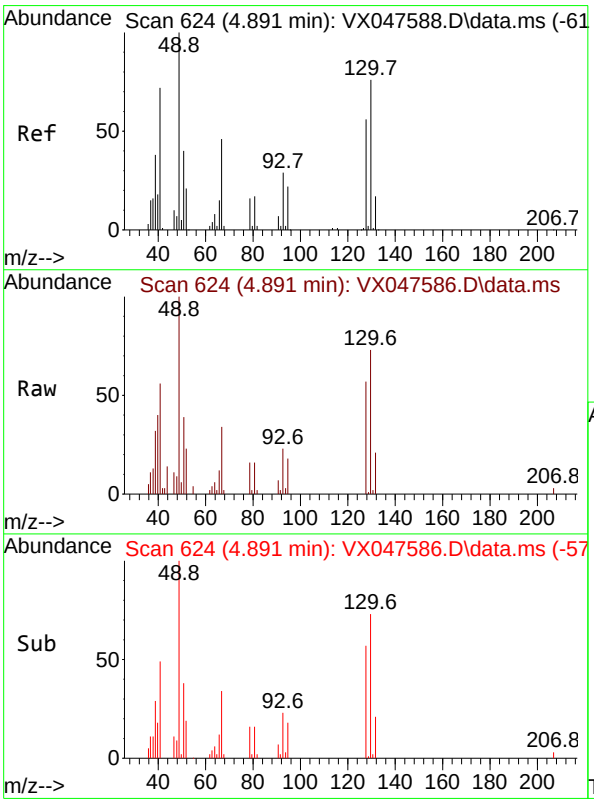
#27
cis-1,2-Dichloroethene
Concen: 5.147 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 15996

Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	303.2
98	64.8	0.0	127.8

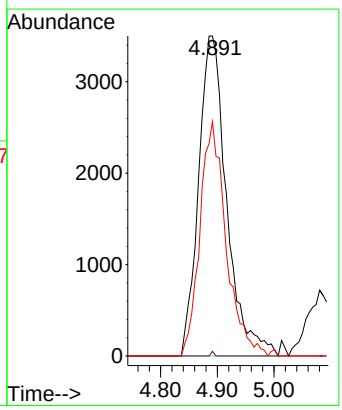


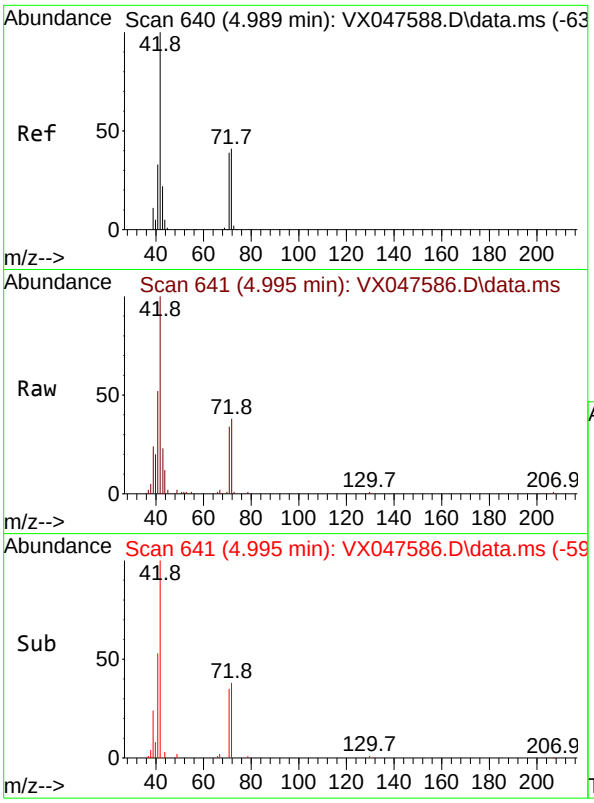


#28
Bromochloromethane
Concen: 5.508 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 49 Resp: 12047

Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	3.2
130	68.0	57.8	86.8



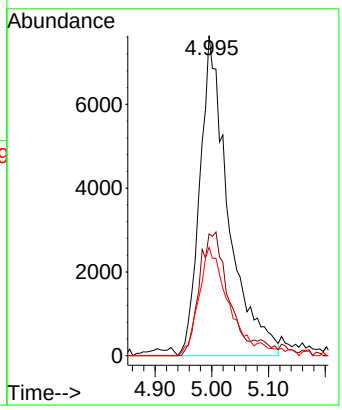


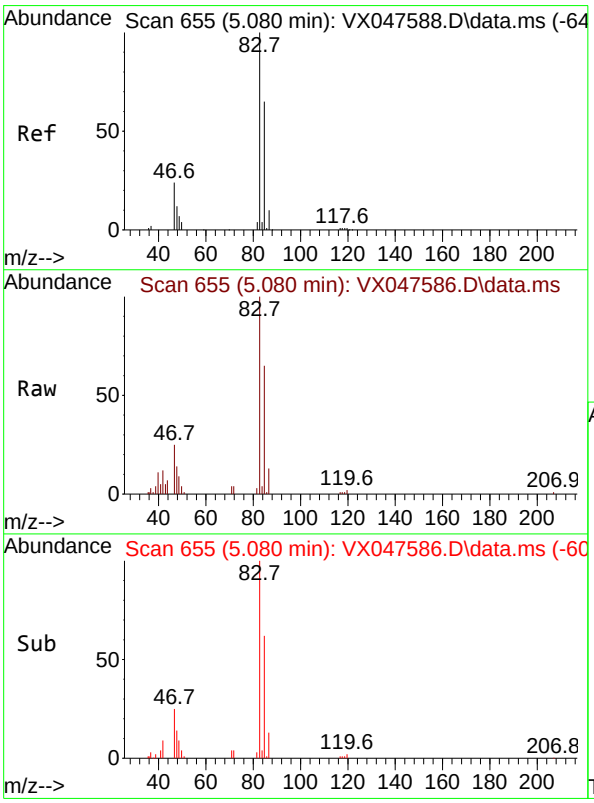
#29
Tetrahydrofuran
Concen: 25.944 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 26729

Ion	Ratio	Lower	Upper
42	100		
72	38.7	34.2	51.2
71	34.1	31.9	47.9

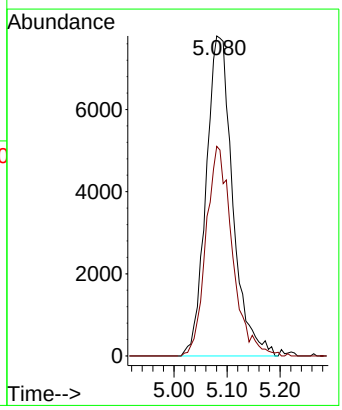


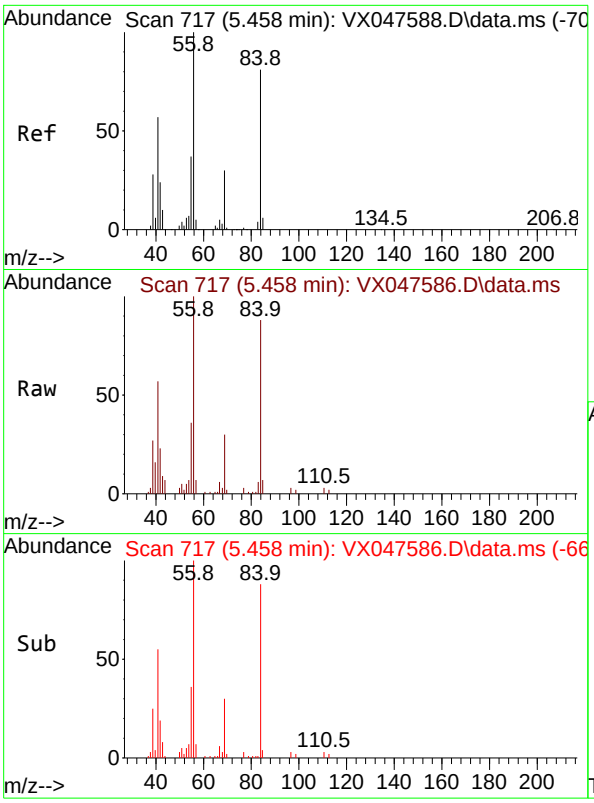


#30
Chloroform
Concen: 5.344 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 27054

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6



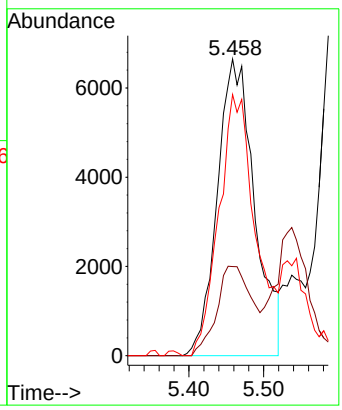


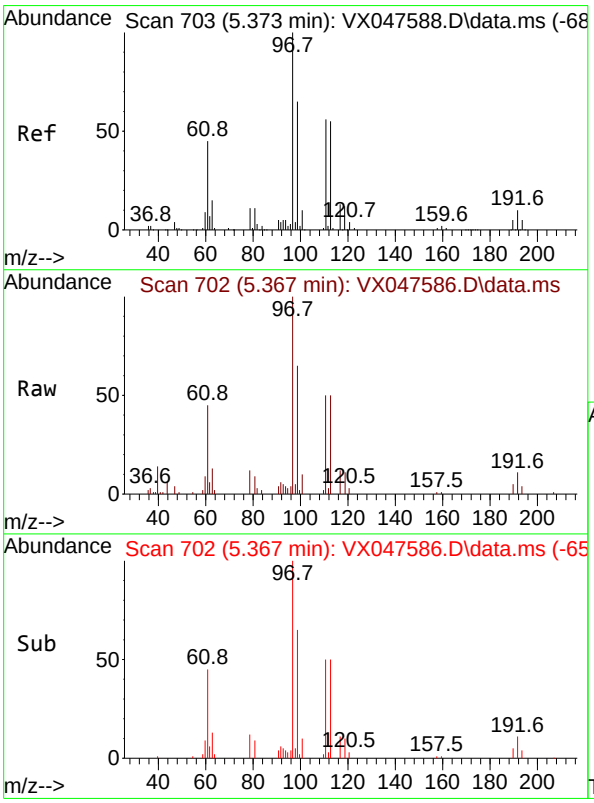
#31
Cyclohexane
Concen: 5.520 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 23032

Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.8	35.8
84	87.1	64.6	97.0

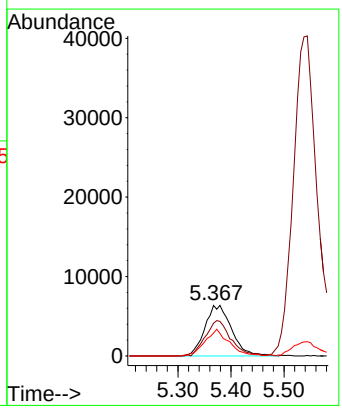


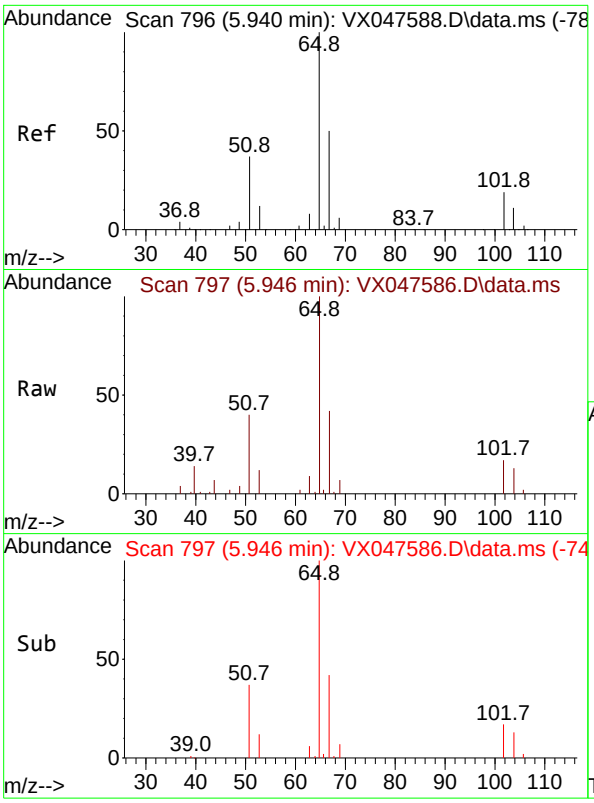


#32
1,1,1-Trichloroethane
Concen: 5.188 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 22279

Ion	Ratio	Lower	Upper
97	100		
99	66.4	50.6	76.0
61	47.4	35.8	53.8



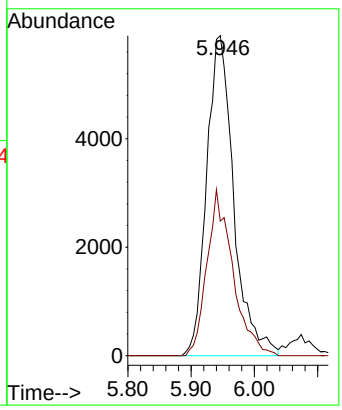


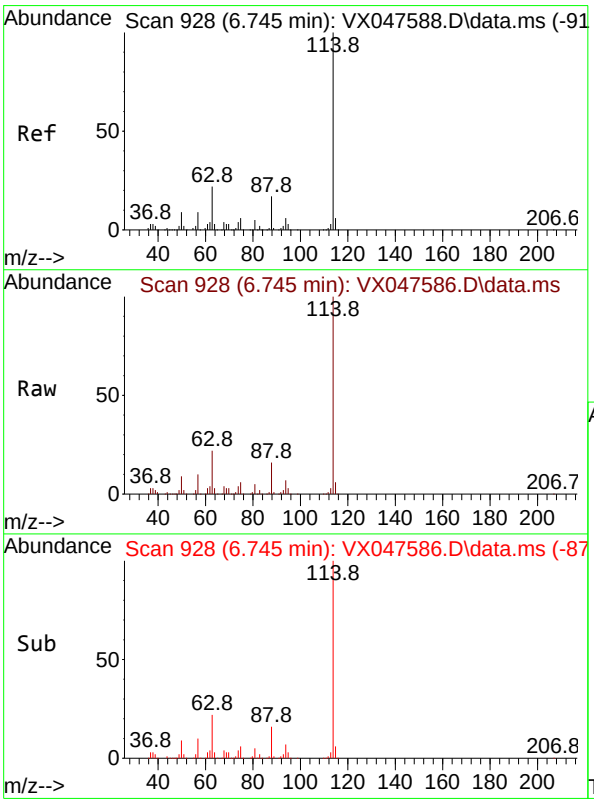
#33
1,2-Dichloroethane-d4
Concen: 5.554 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 17538

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	103.0

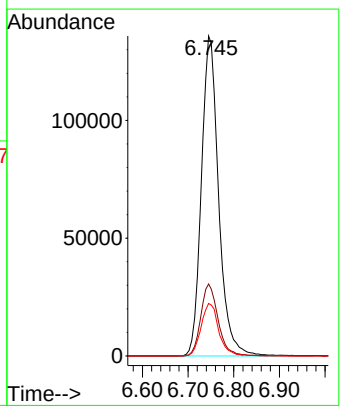


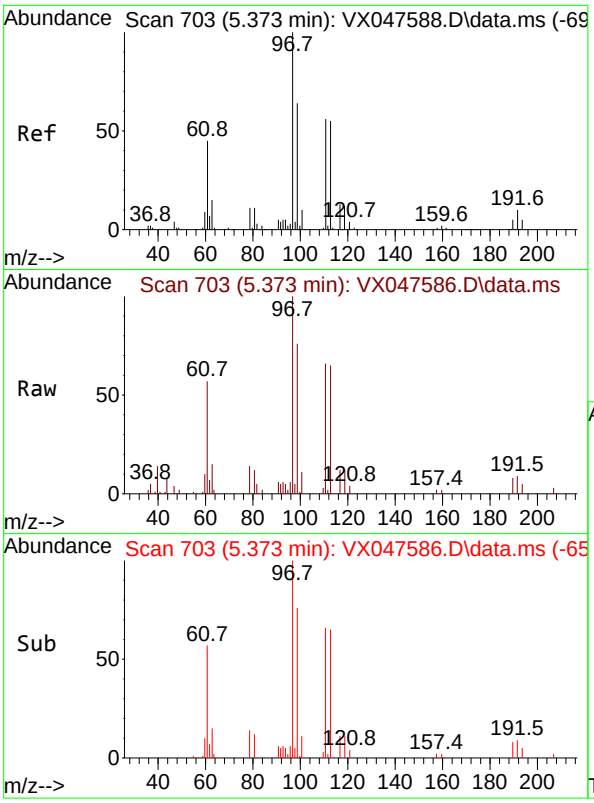


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:114 Resp: 355026

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.4	0.0	34.2



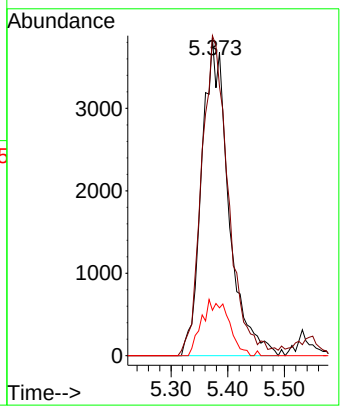


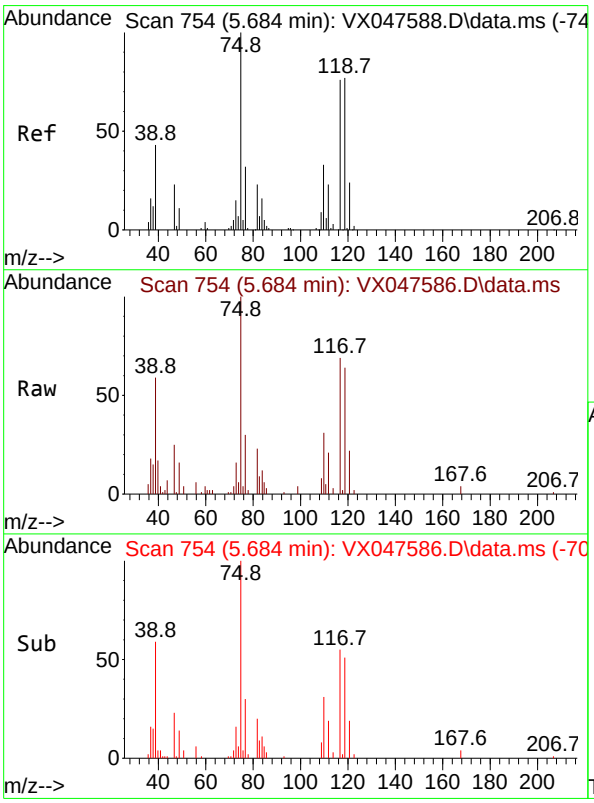
#35
Dibromofluoromethane
Concen: 5.312 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 12647

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4

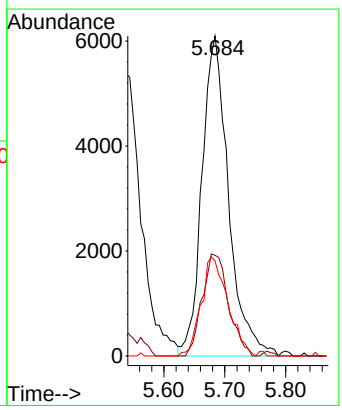


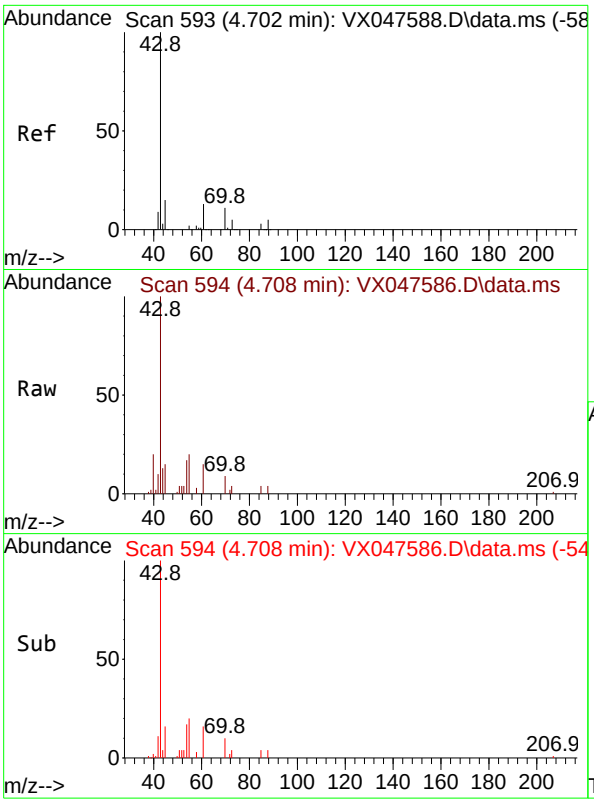


#36
1,1-Dichloropropene
Concen: 5.304 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 18455

Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.7	50.1
77	31.0	24.3	36.5



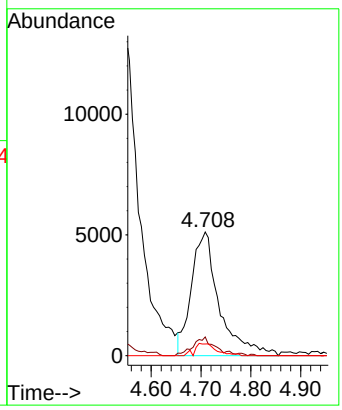


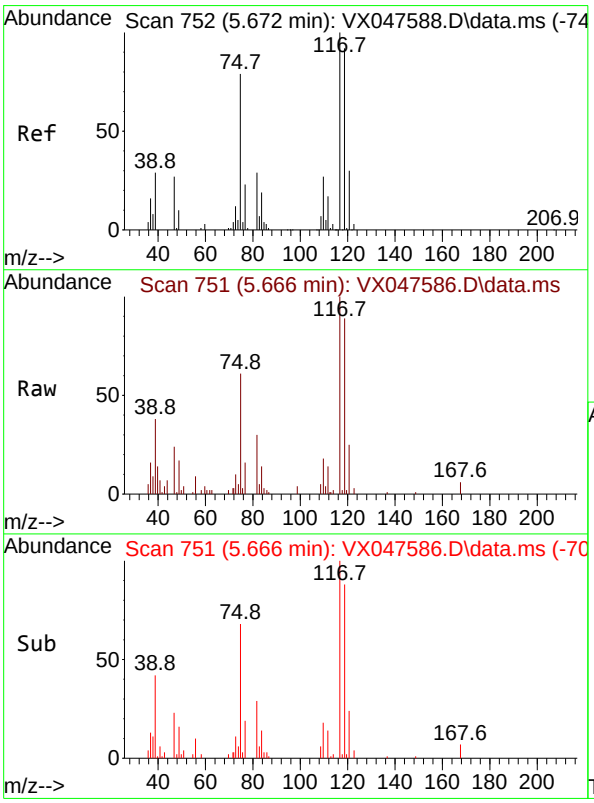
#37
Ethyl Acetate
Concen: 5.345 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 19913

Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9#

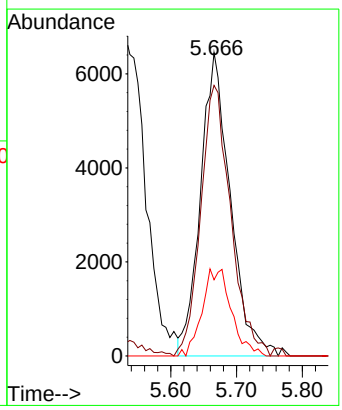


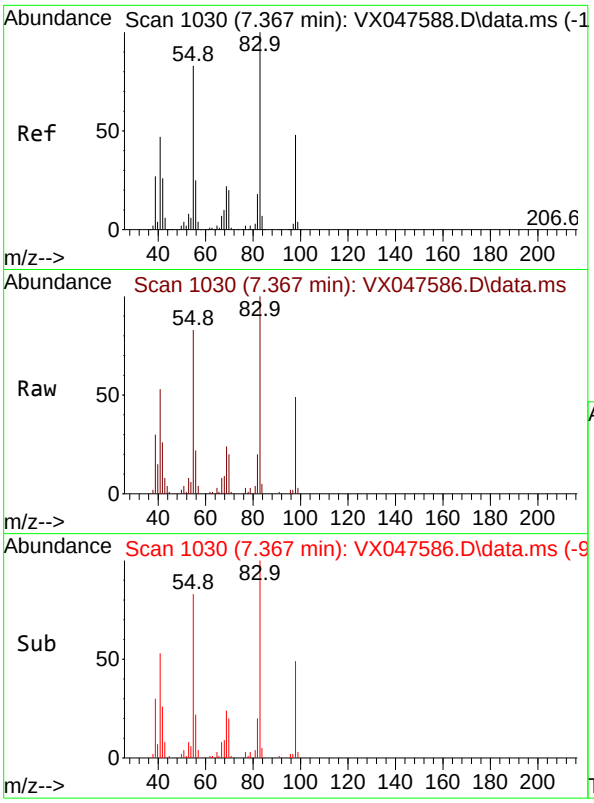


#38
Carbon Tetrachloride
Concen: 5.390 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 20376

Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.4	110.2
121	25.1	23.8	35.6



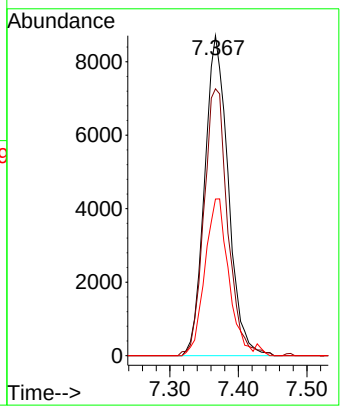


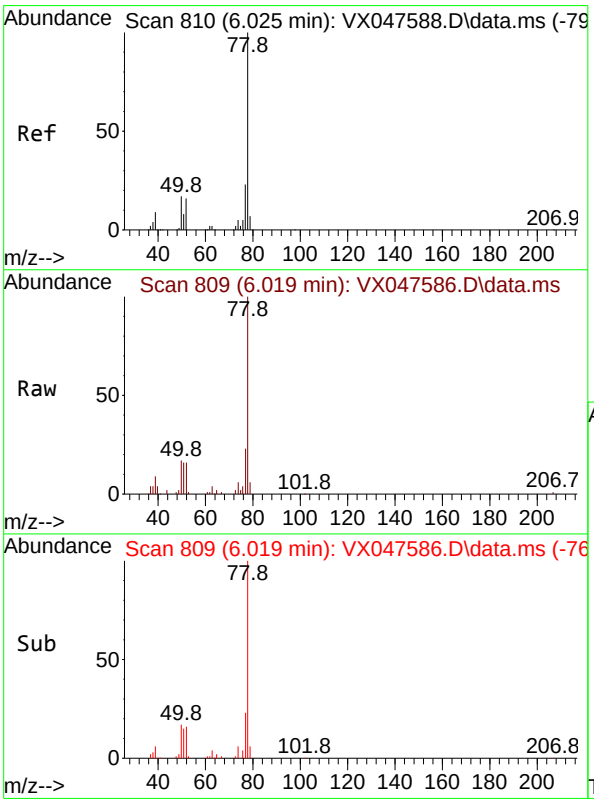
#39
Methylcyclohexane
Concen: 5.292 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 20900

Ion	Ratio	Lower	Upper
83	100		
55	79.1	66.4	99.6
98	46.4	38.1	57.1

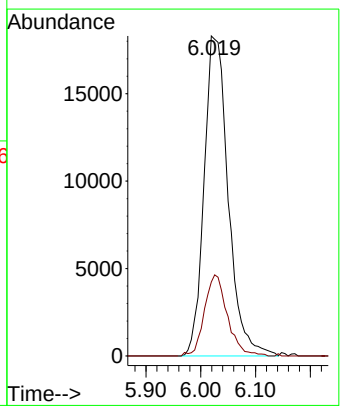


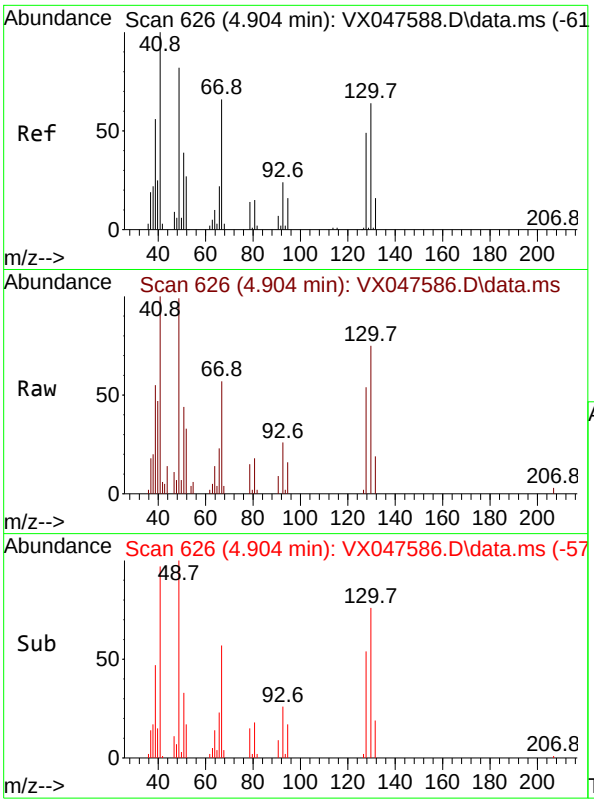


#40
Benzene
Concen: 5.299 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 78 Resp: 55996

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2



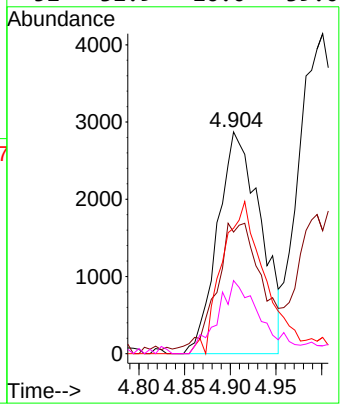


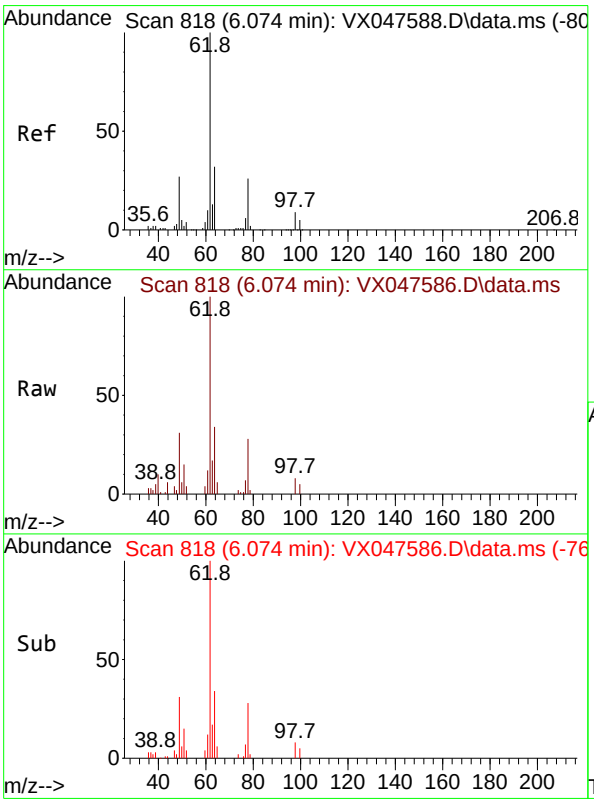
#41
Methacrylonitrile
Concen: 4.883 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 9390

Ion	Ratio	Lower	Upper
41	100		
39	58.3	43.3	64.9
67	68.7	58.6	87.8
52	32.9	26.0	39.0

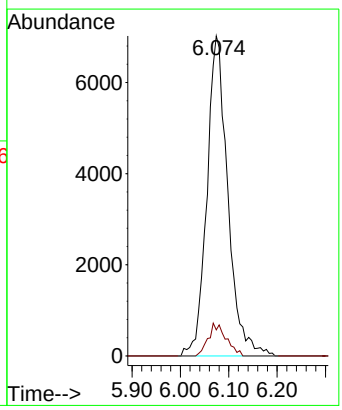


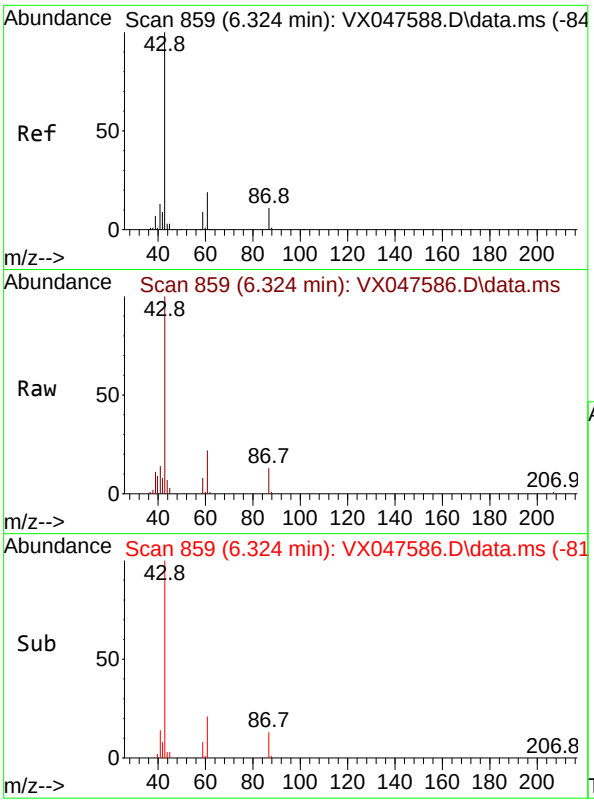


#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 21117

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



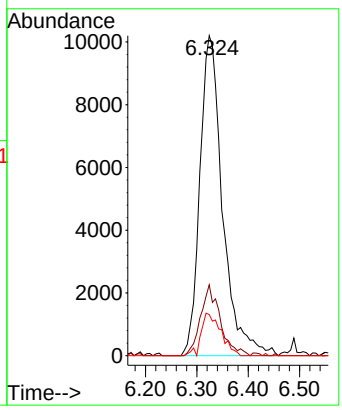


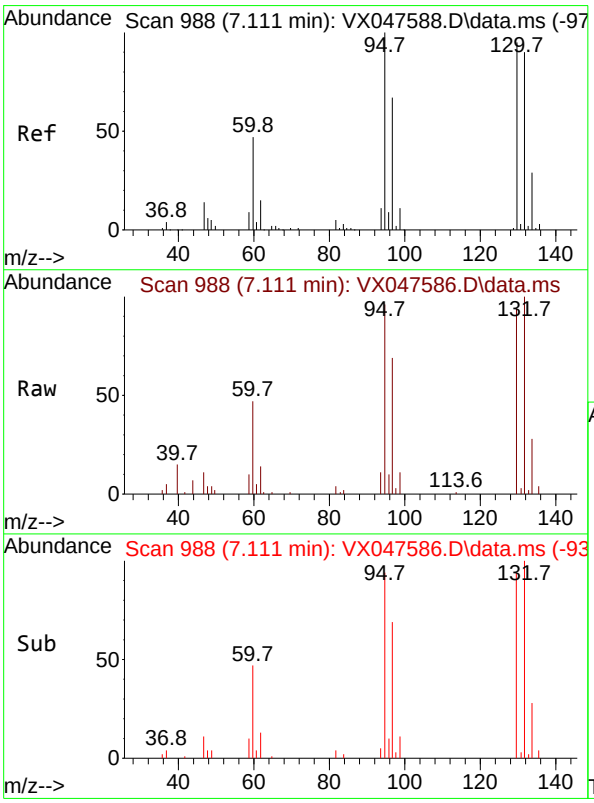
#43
Isopropyl Acetate
Concen: 5.124 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 31304

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	11.6	9.6	14.4

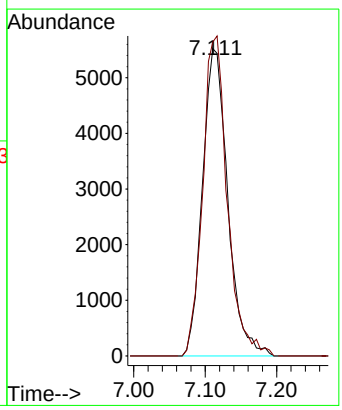


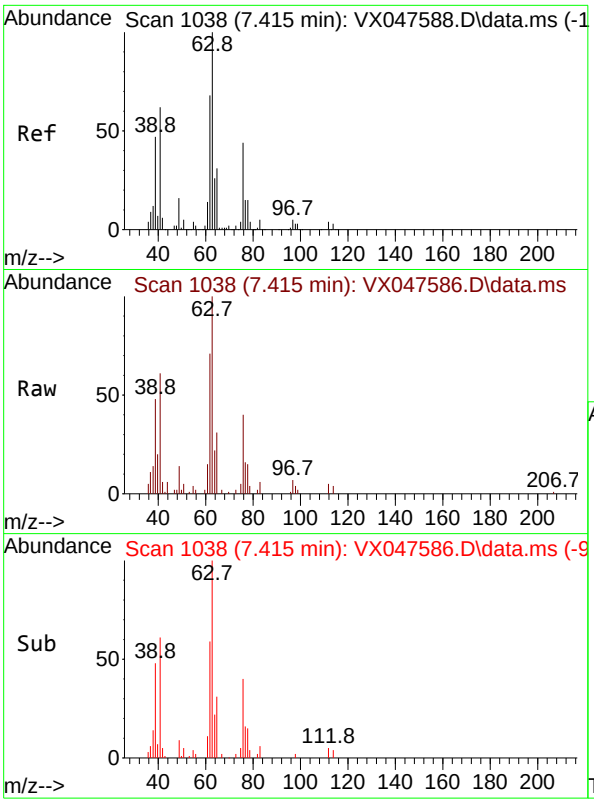


#44
Trichloroethene
Concen: 5.314 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:130 Resp: 13576

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8



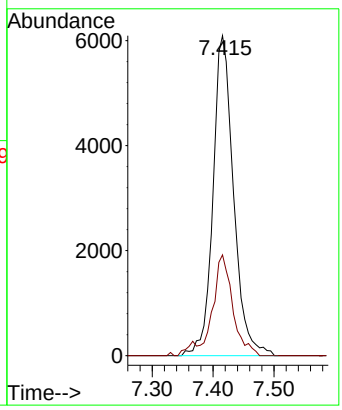


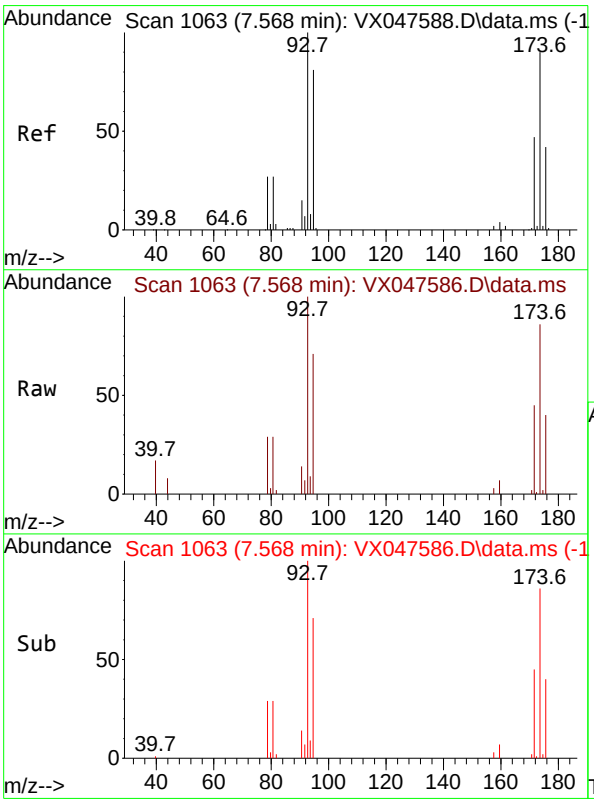
#45
1,2-Dichloropropane
Concen: 5.287 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 14305

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

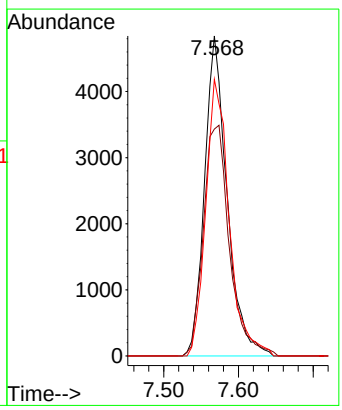


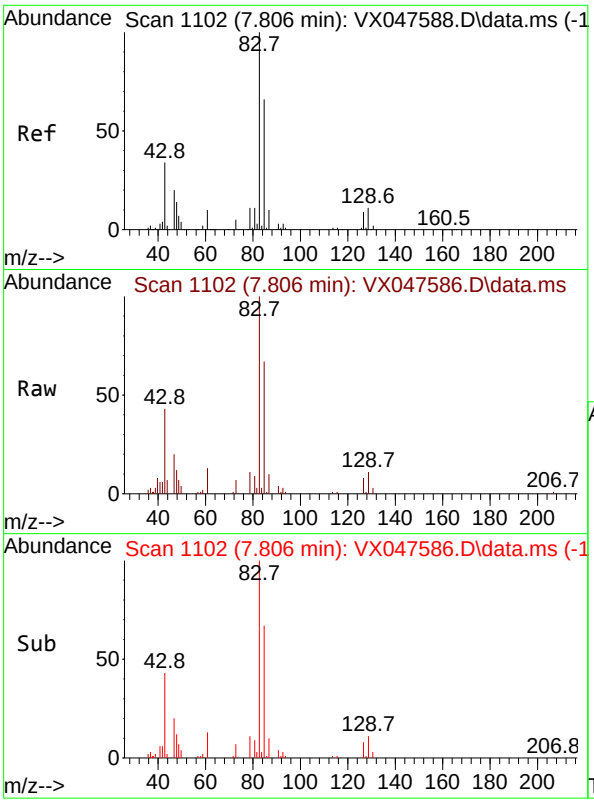


#46
Dibromomethane
Concen: 5.146 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 93 Resp: 10133

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.0	97.6
174	90.0	71.6	107.4



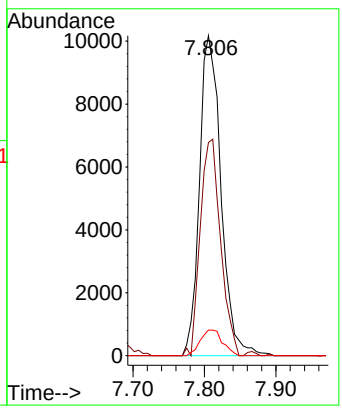


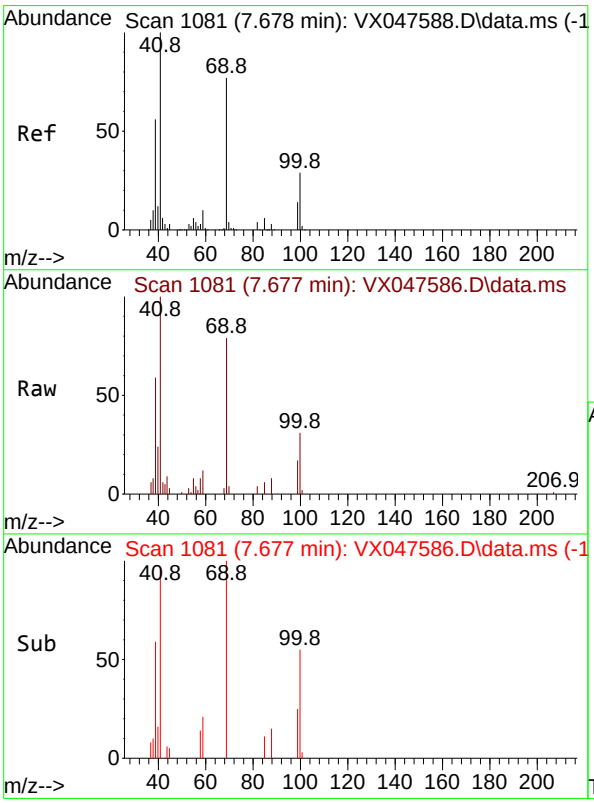
#47
Bromodichloromethane
Concen: 5.235 ug/l
RT: 7.806 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 21270

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3

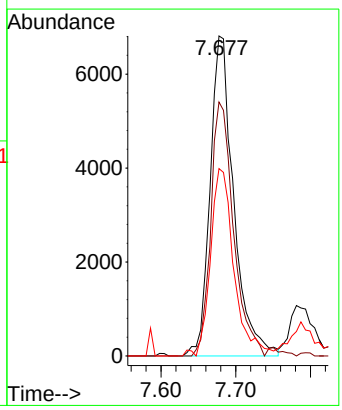


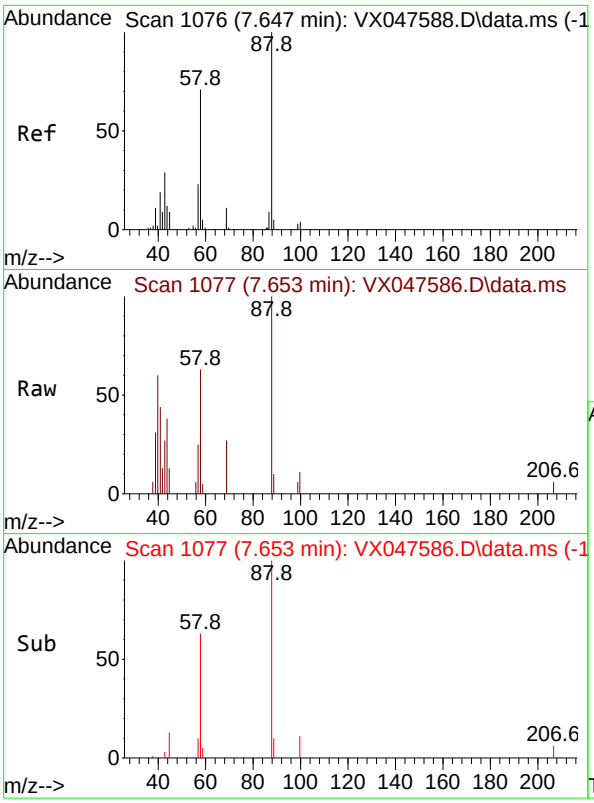


#48
Methyl methacrylate
Concen: 4.915 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 14959

Ion	Ratio	Lower	Upper
41	100		
69	76.4	61.4	92.2
39	58.2	45.8	68.6



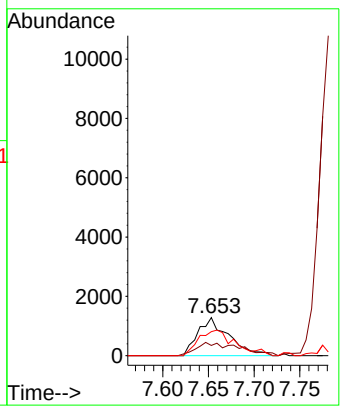


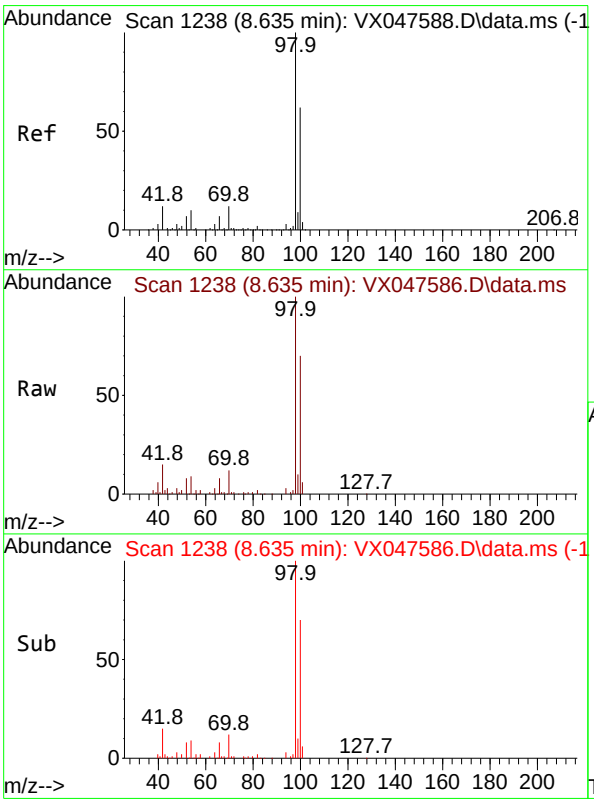
#49
1,4-Dioxane
Concen: 98.096 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 3017

Ion	Ratio	Lower	Upper
88	100		
43	48.3	30.2	45.2#
58	79.1	59.5	89.3

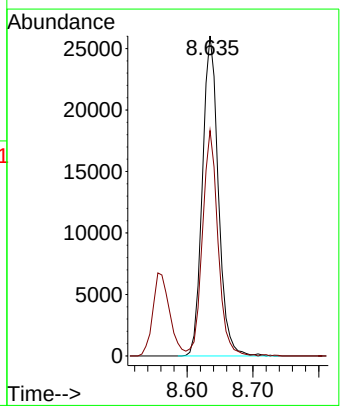


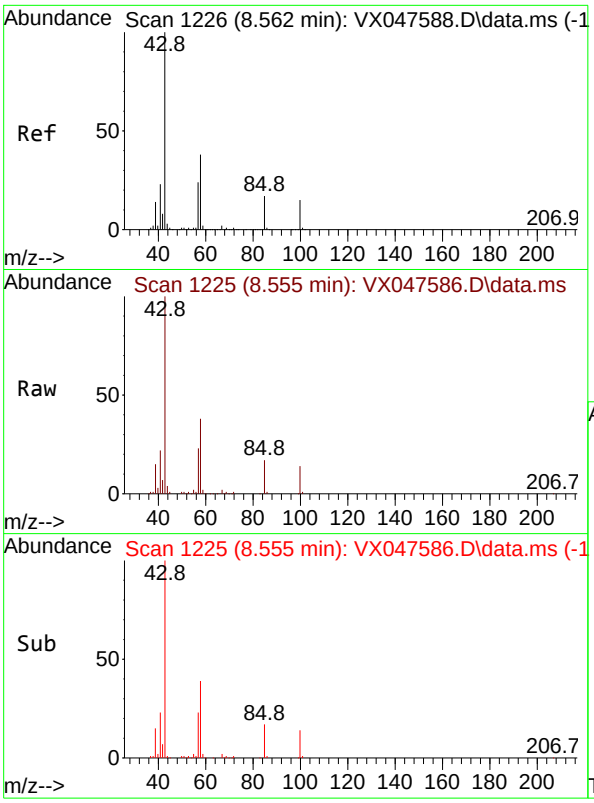


#50
Toluene-d8
Concen: 5.332 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 98 Resp: 43926

Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4



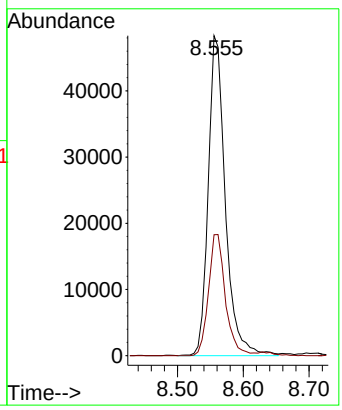


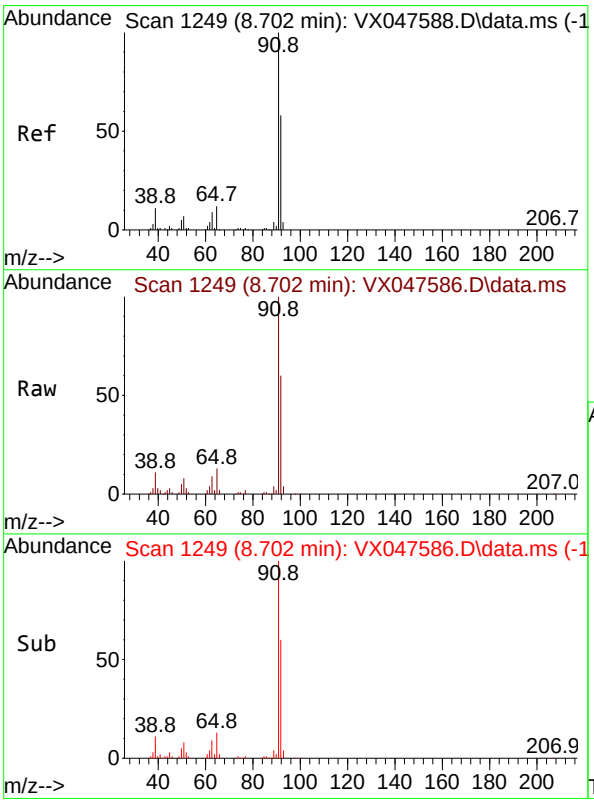
#51
4-Methyl-2-Pentanone
Concen: 25.828 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 87492

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

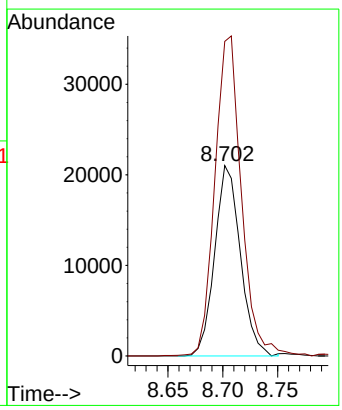


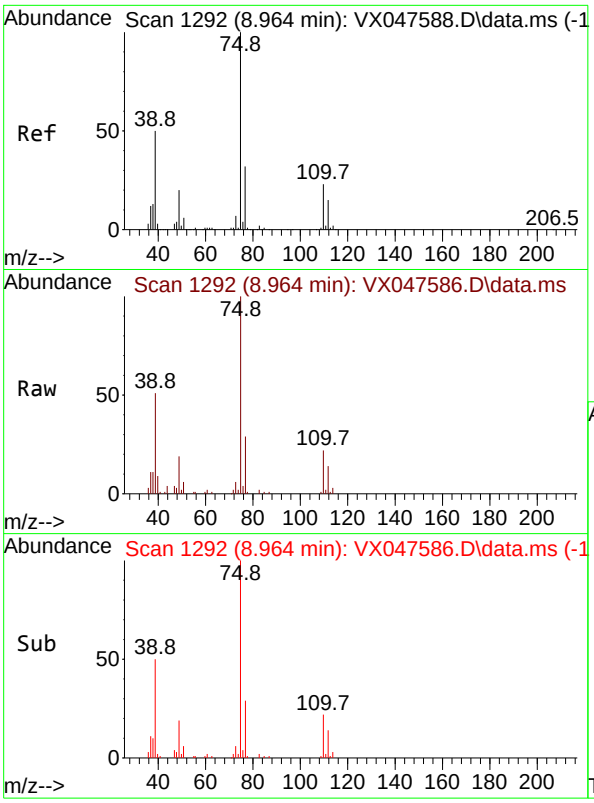


#52
Toluene
Concen: 5.271 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 92 Resp: 34314

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.1	205.7



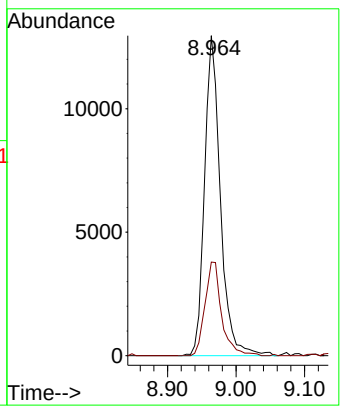


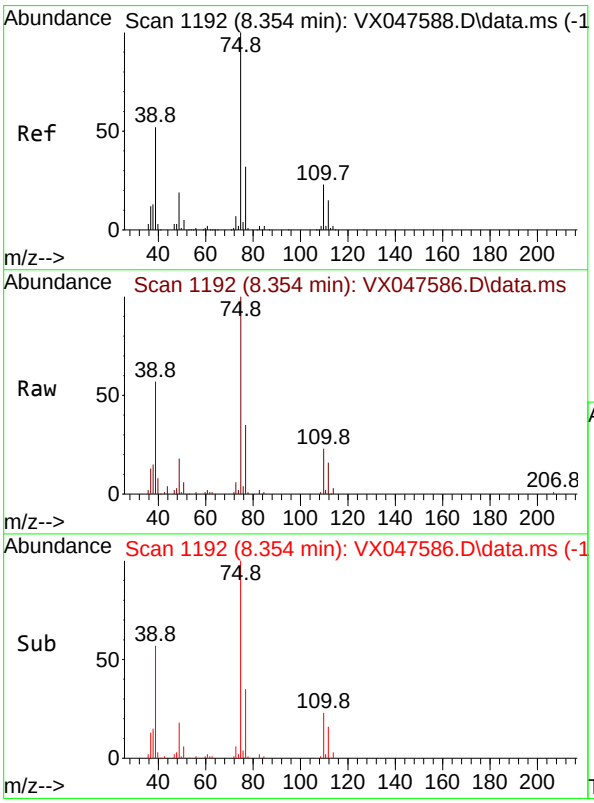
#53
t-1,3-Dichloropropene
Concen: 5.034 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 20863

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2

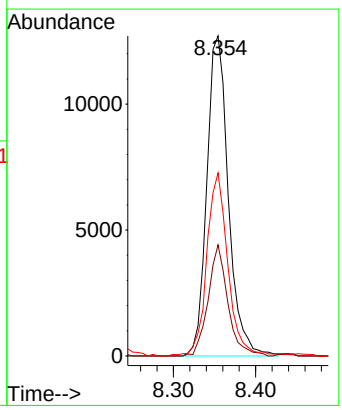


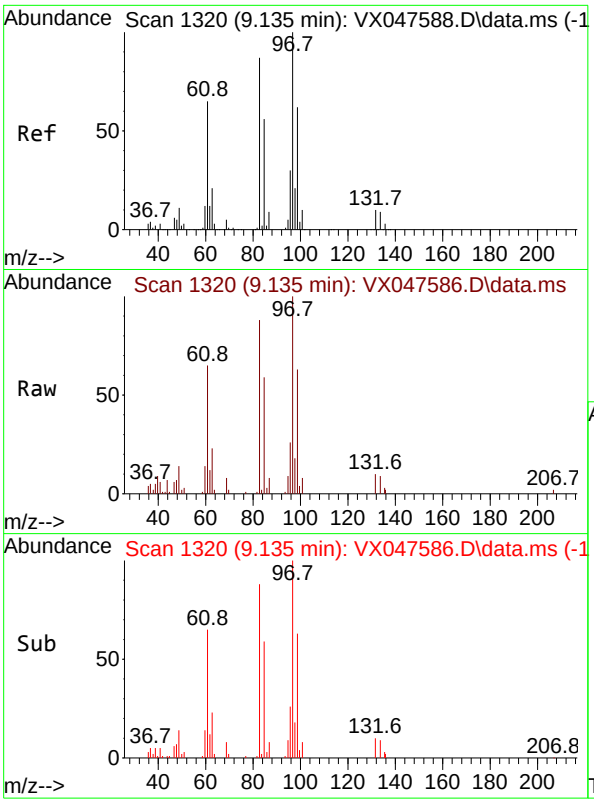


#54
cis-1,3-Dichloropropene
Concen: 5.227 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 23157

Ion	Ratio	Lower	Upper
75	100		
77	34.7	25.8	38.6
39	51.7	41.4	62.2



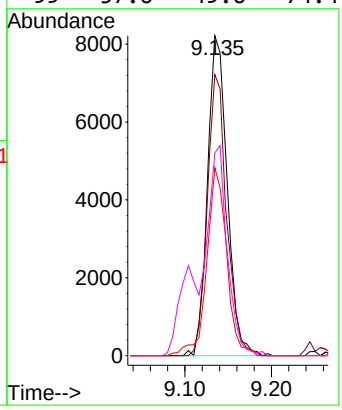


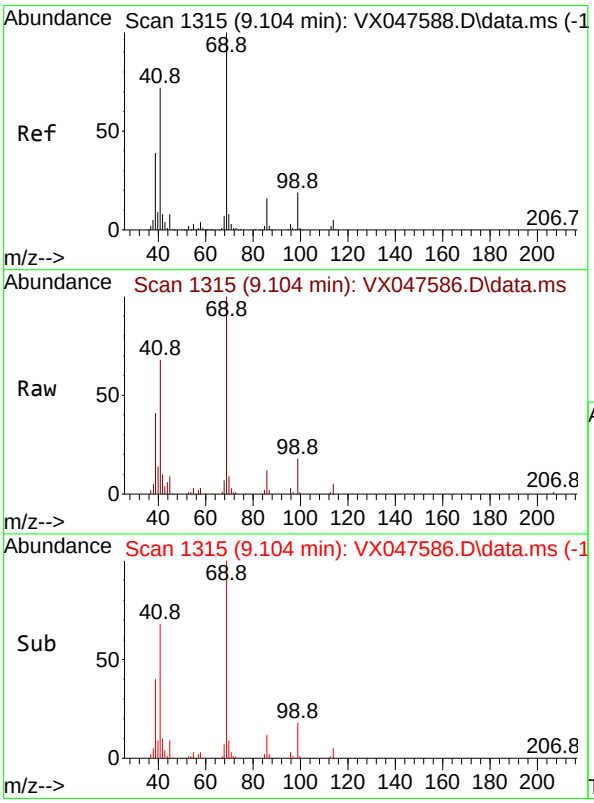
#55
1,1,2-Trichloroethane
Concen: 5.166 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 12968

Ion	Ratio	Lower	Upper
97	100		
83	76.7	69.6	104.4
85	49.9	45.0	67.6
99	57.6	49.6	74.4

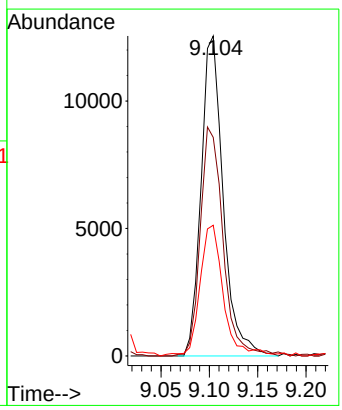


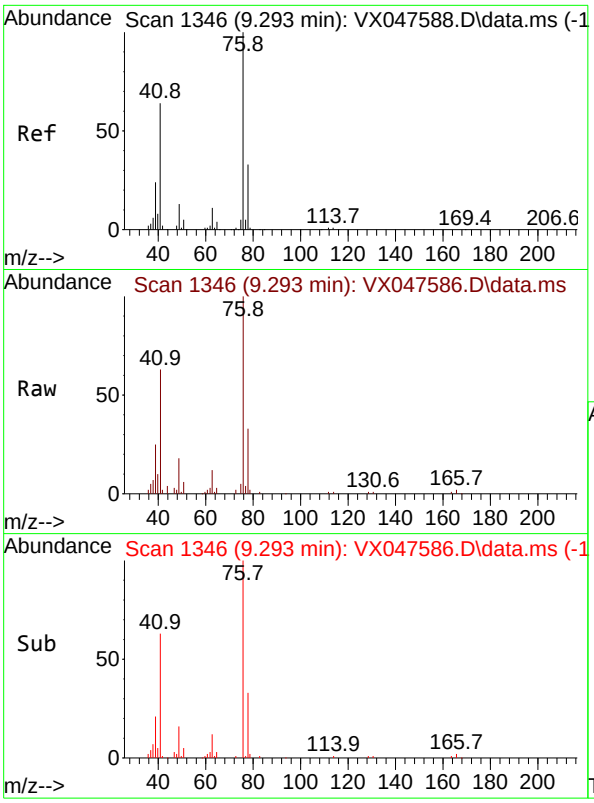


#56
Ethyl methacrylate
Concen: 5.068 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 69 Resp: 19980

Ion	Ratio	Lower	Upper
69	100		
41	73.9	58.6	87.8
39	43.7	31.5	47.3



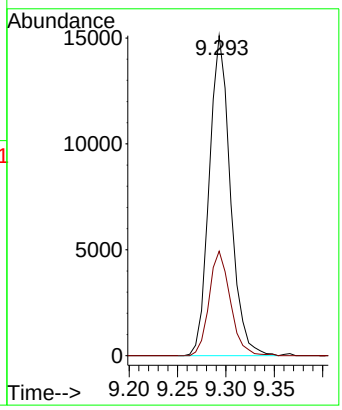


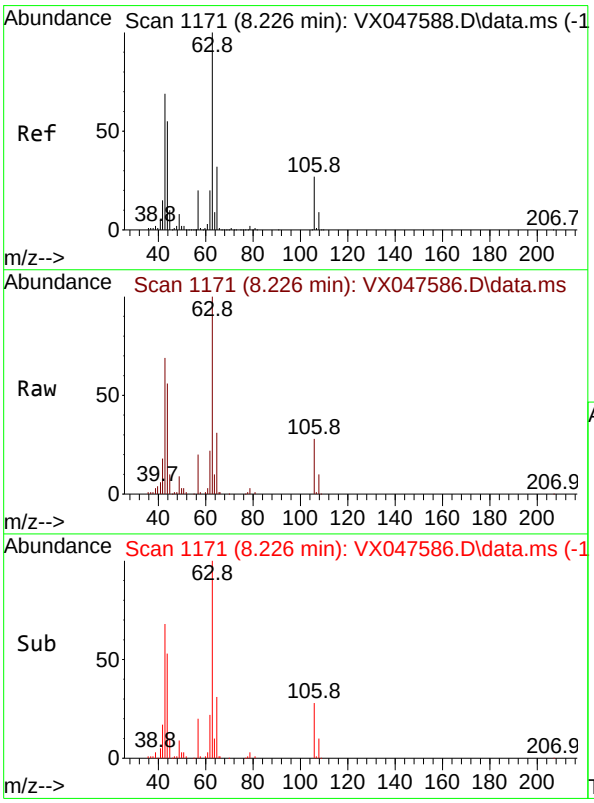
#57
1,3-Dichloropropane
Concen: 5.331 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 22989

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4

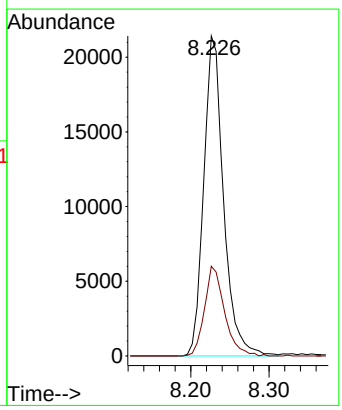


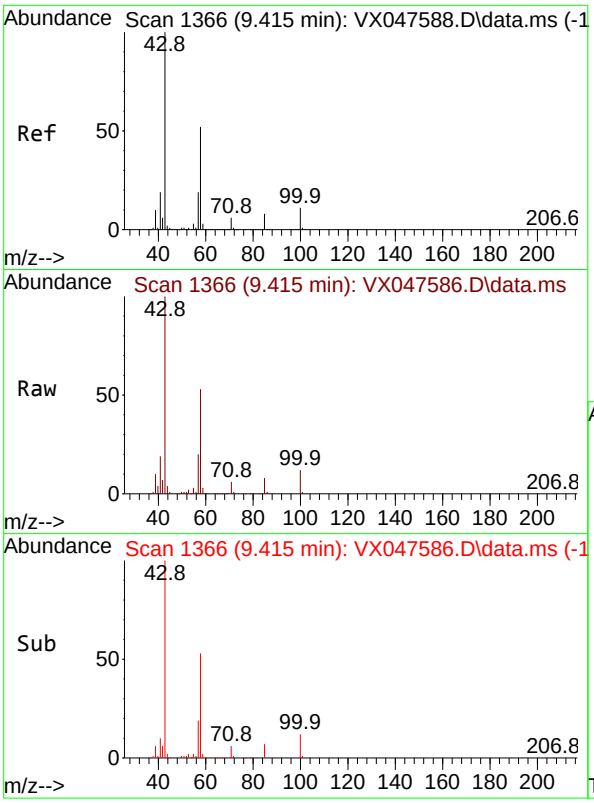


#58
2-Chloroethyl Vinyl ether
Concen: 27.899 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 37585

Ion	Ratio	Lower	Upper
63	100		
106	28.3	21.9	32.9



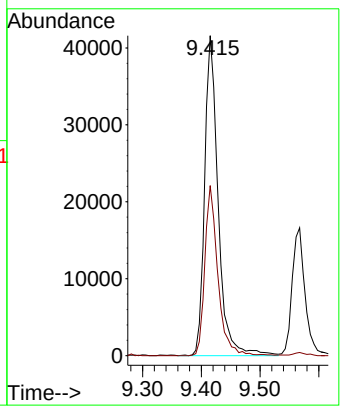


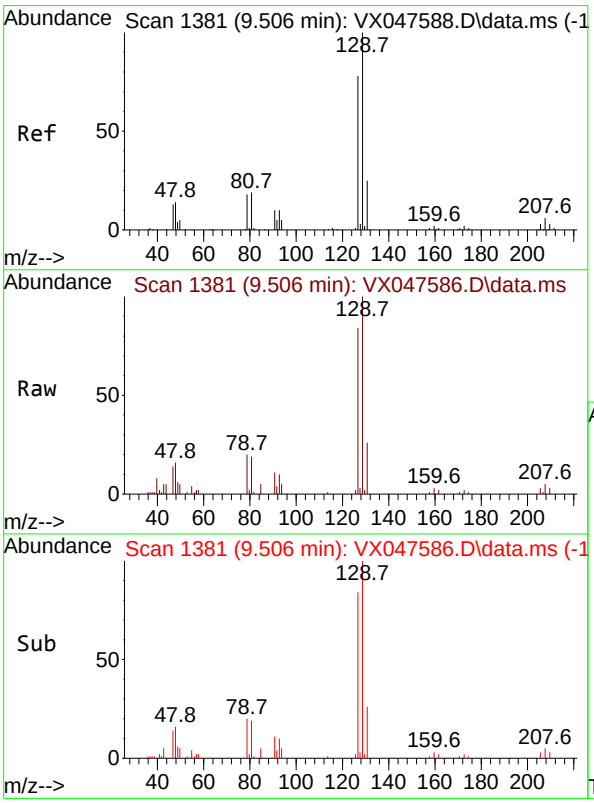
#59
2-Hexanone
Concen: 27.275 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 66356

Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.1	78.2

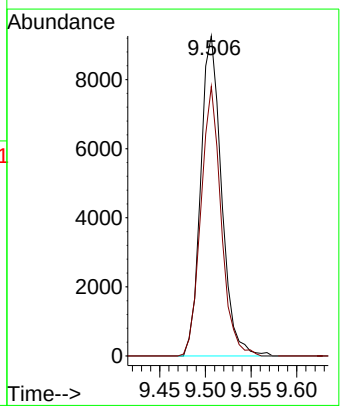


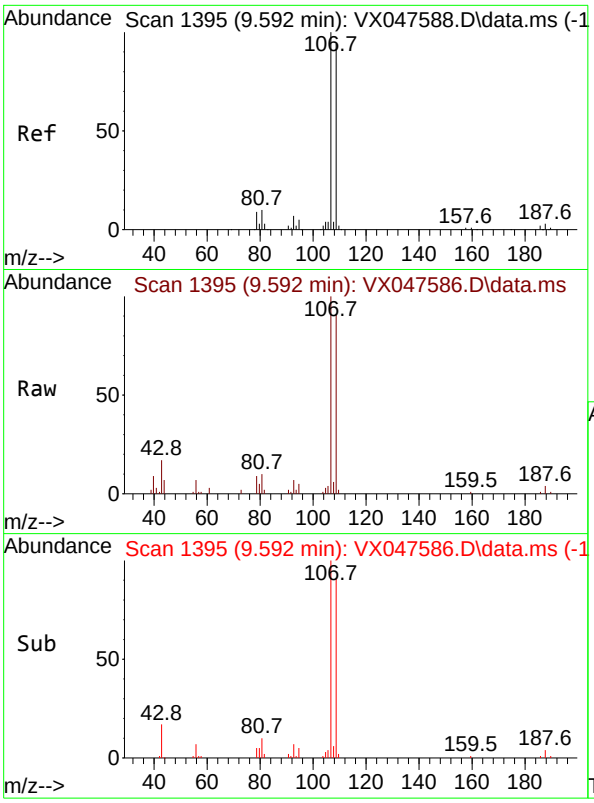


#60
Dibromochloromethane
Concen: 5.084 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:129 Resp: 14705

Ion	Ratio	Lower	Upper
129	100		
127	81.4	38.4	115.2



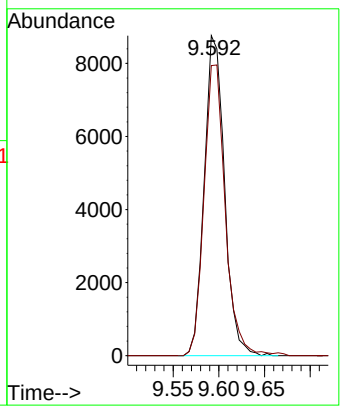


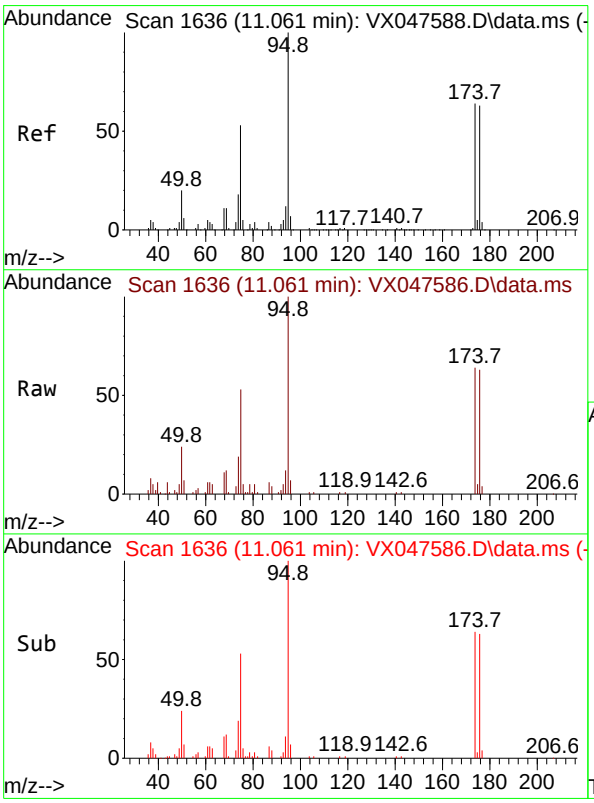
#61
1,2-Dibromoethane
Concen: 5.264 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 13461

Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.3	112.9

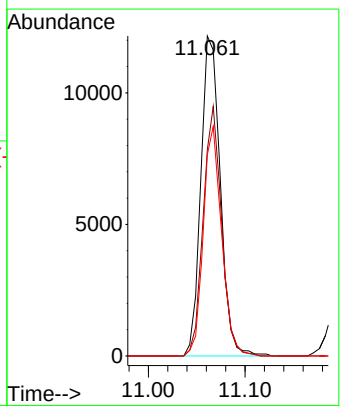


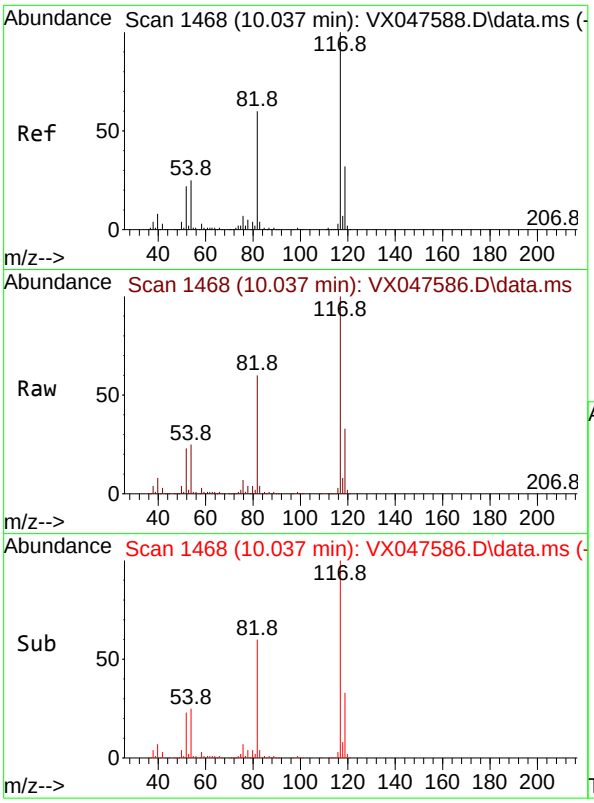


#62
4-Bromofluorobenzene
Concen: 5.429 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 95 Resp: 16974

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	141.6
176	67.9	0.0	138.4



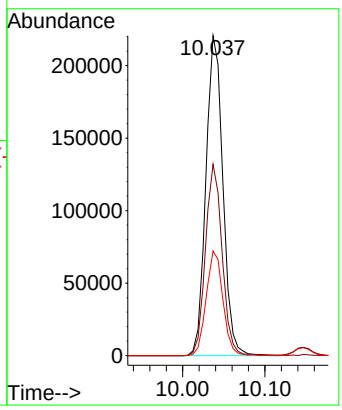


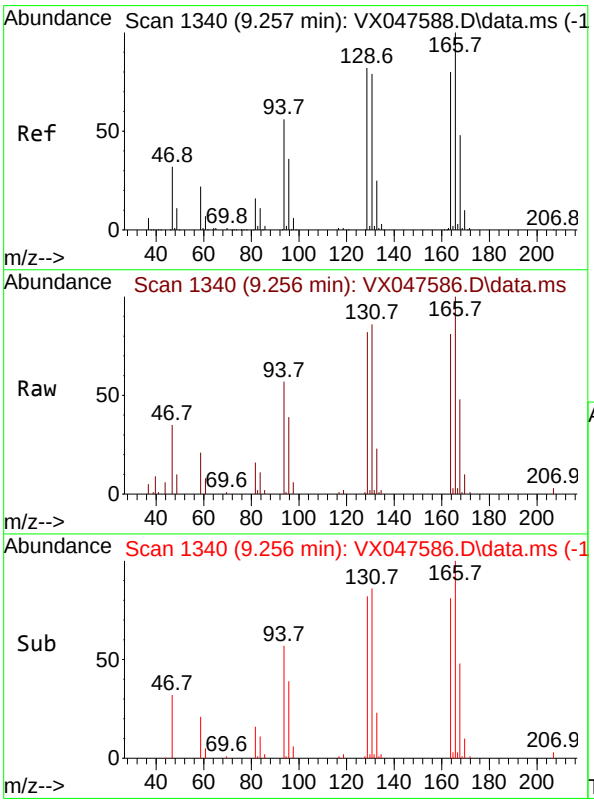
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 317288

Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.8	71.6
119	32.8	25.2	37.8

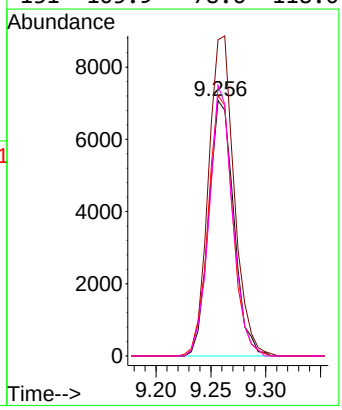


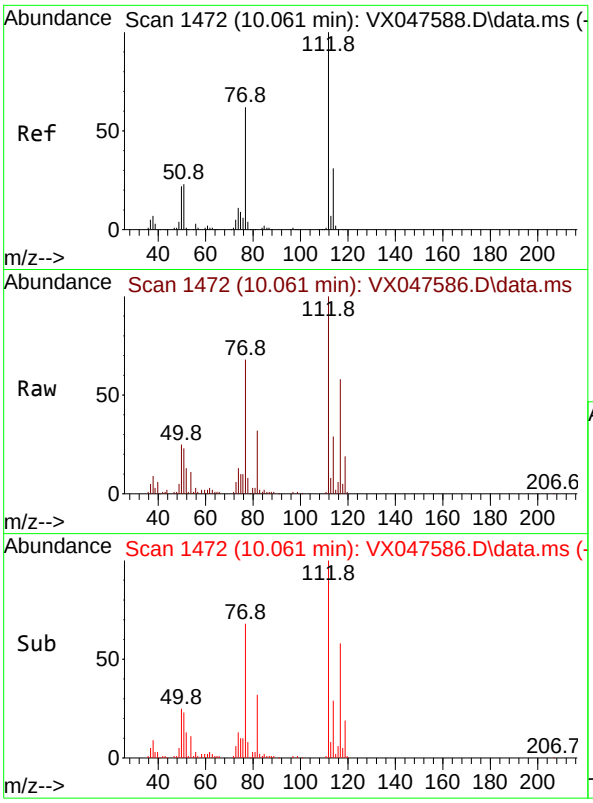


#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:164 Resp: 11228

Ion	Ratio	Lower	Upper
164	100		
166	123.8	100.2	150.2
129	102.0	81.8	122.6
131	105.9	78.6	118.0



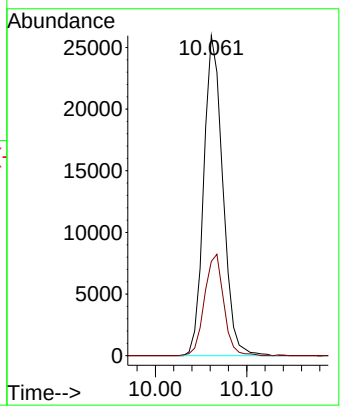


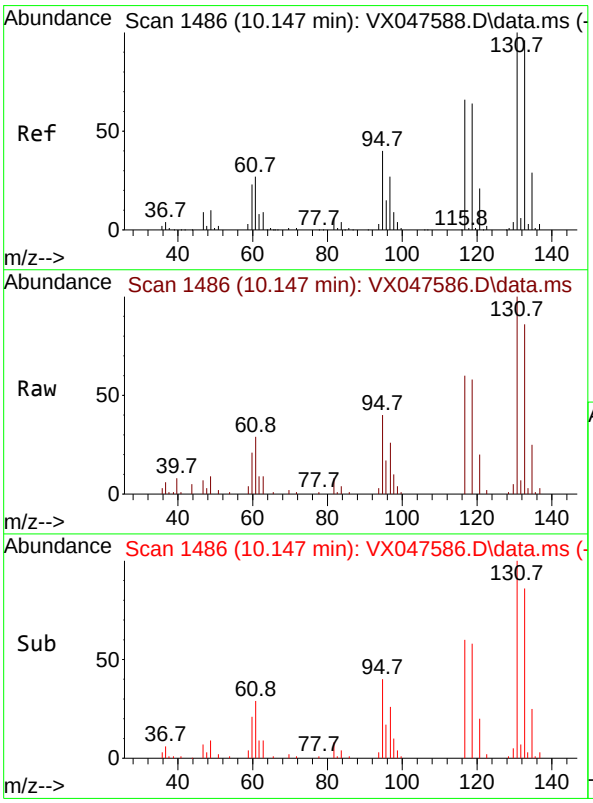
#65
Chlorobenzene
Concen: 5.203 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 37507

Ion	Ratio	Lower	Upper
112	100		
114	29.2	25.1	37.7

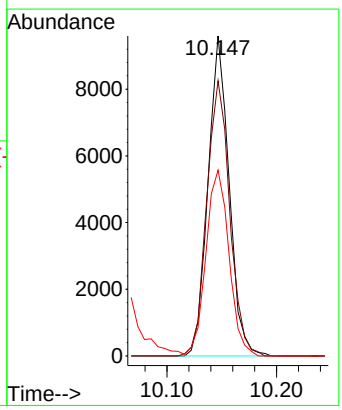


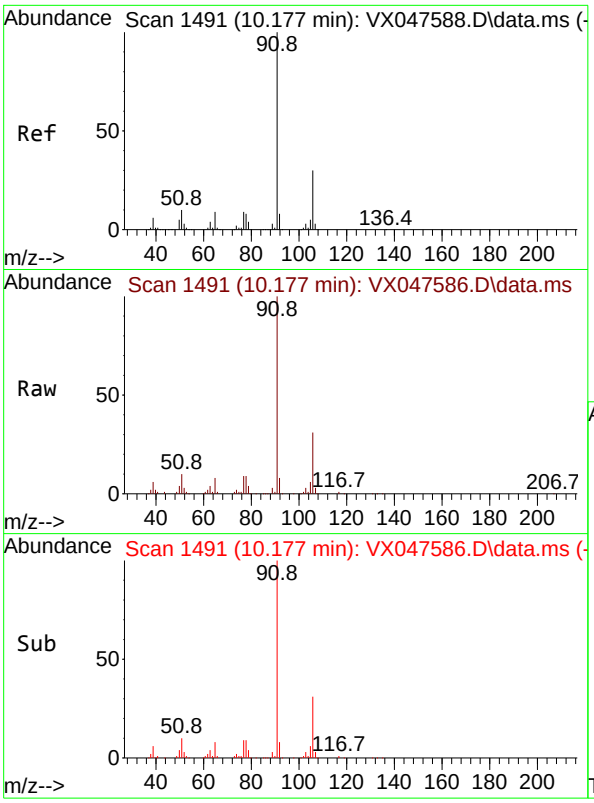


#66
1,1,1,2-Tetrachloroethane
Concen: 5.149 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:131 Resp: 12807

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	142.0
119	63.5	32.0	96.0



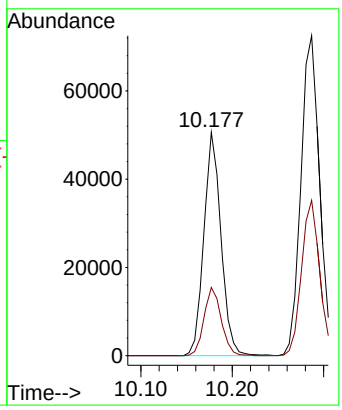


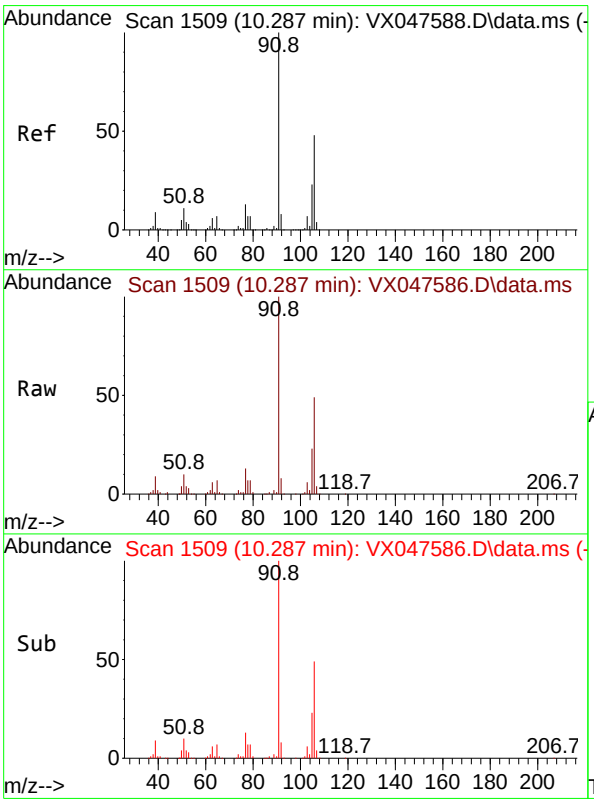
#67
Ethyl Benzene
Concen: 5.299 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 65908

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

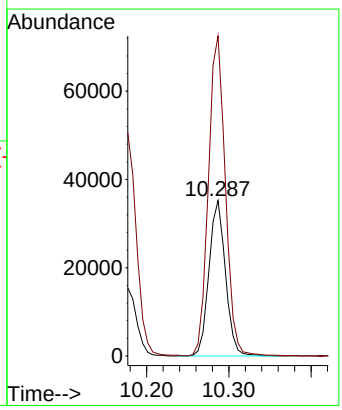


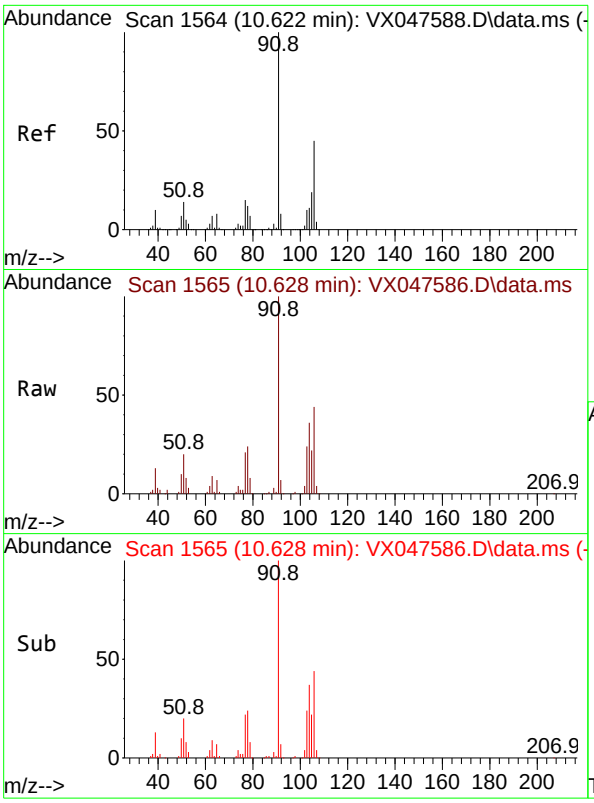


#68
m/p-Xylenes
Concen: 10.613 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 49132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	167.8	251.8



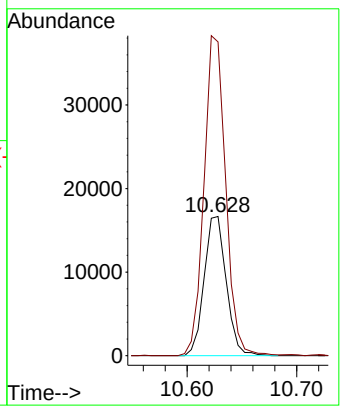


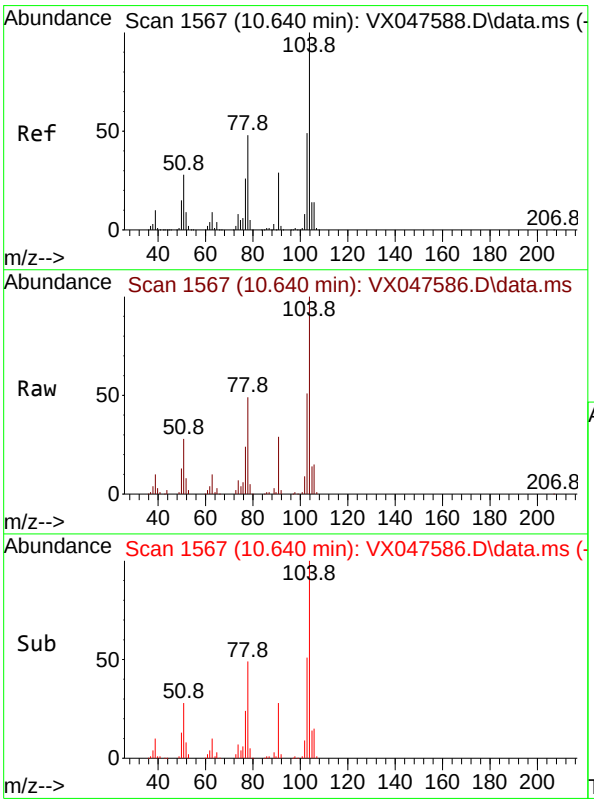
#69
o-Xylene
Concen: 5.204 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 23300

Ion	Ratio	Lower	Upper
106	100		
91	226.3	111.1	333.4

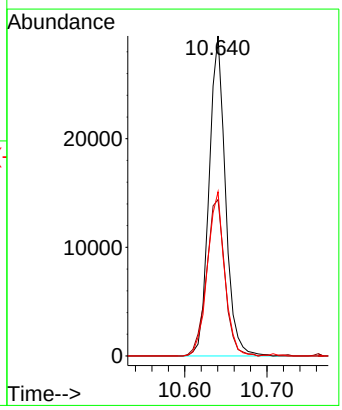


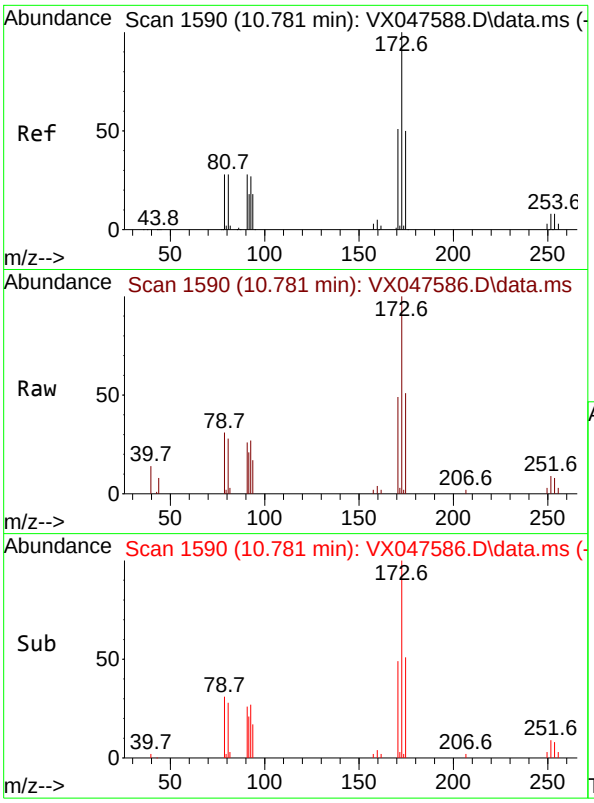


#70
Styrene
Concen: 5.210 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:104 Resp: 40872

Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.1	64.7
103	53.7	43.1	64.7



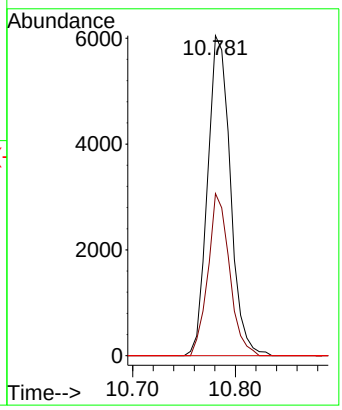


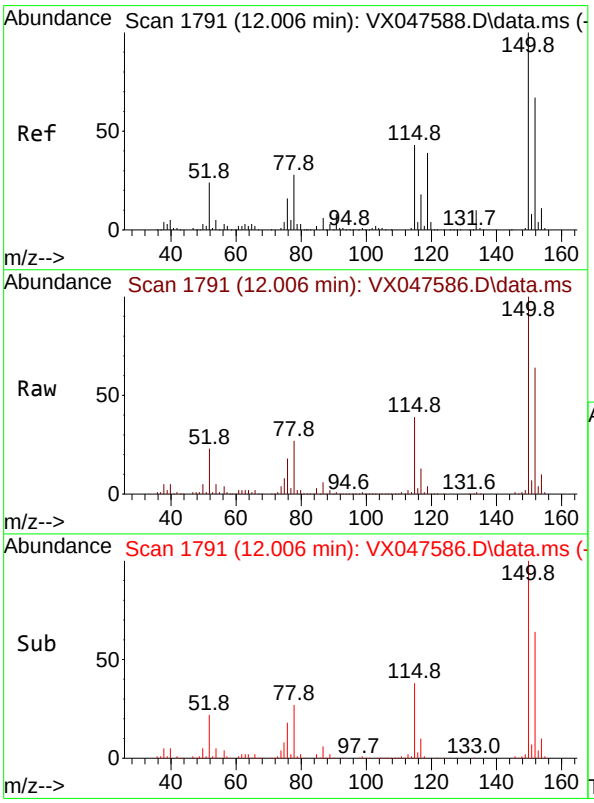
#71
Bromoform
Concen: 5.006 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 9298

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.9	74.6
254	0.0	0.1	0.1#

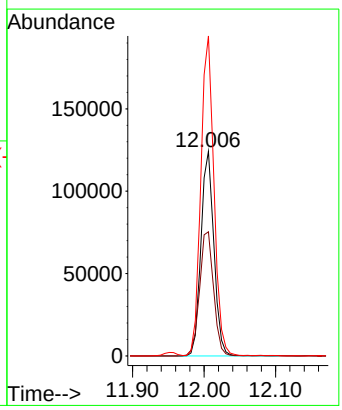


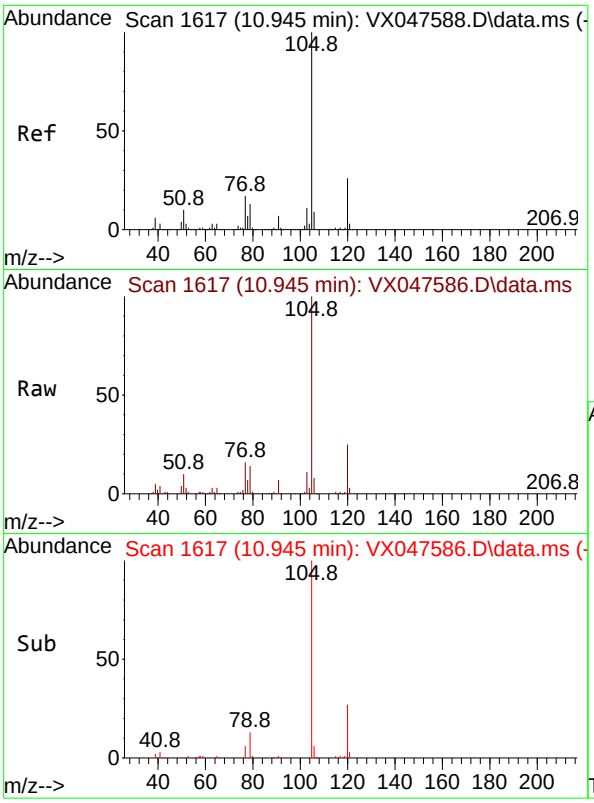


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:152 Resp: 156219

Ion	Ratio	Lower	Upper
152	100		
115	65.6	44.9	134.5
150	157.8	0.0	352.0



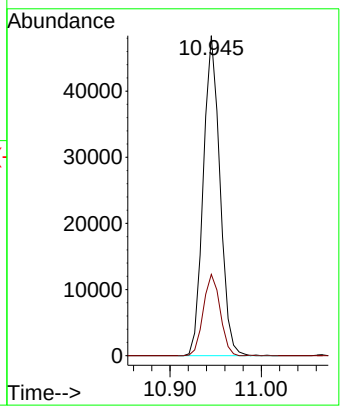


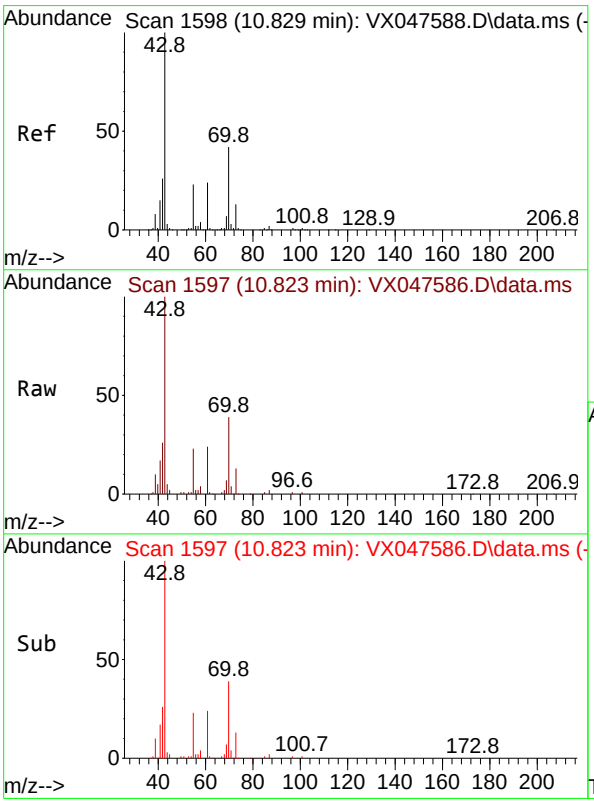
#73
Isopropylbenzene
Concen: 5.139 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 61029

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

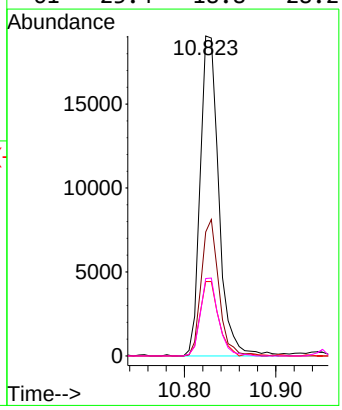


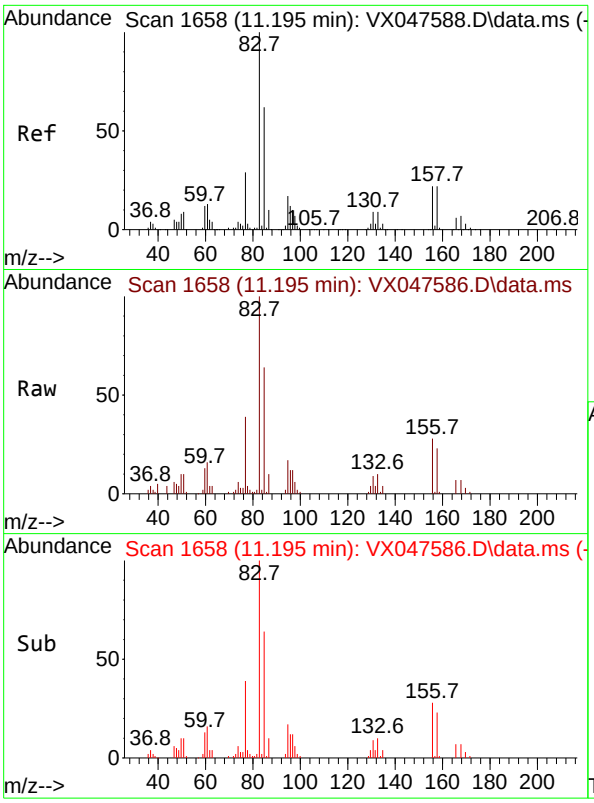


#74
N-amyl acetate
Concen: 4.980 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 26969

Ion	Ratio	Lower	Upper
43	100		
70	39.9	32.0	48.0
55	23.1	18.9	28.3
61	23.4	18.8	28.2



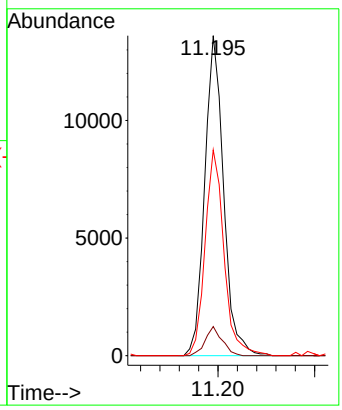


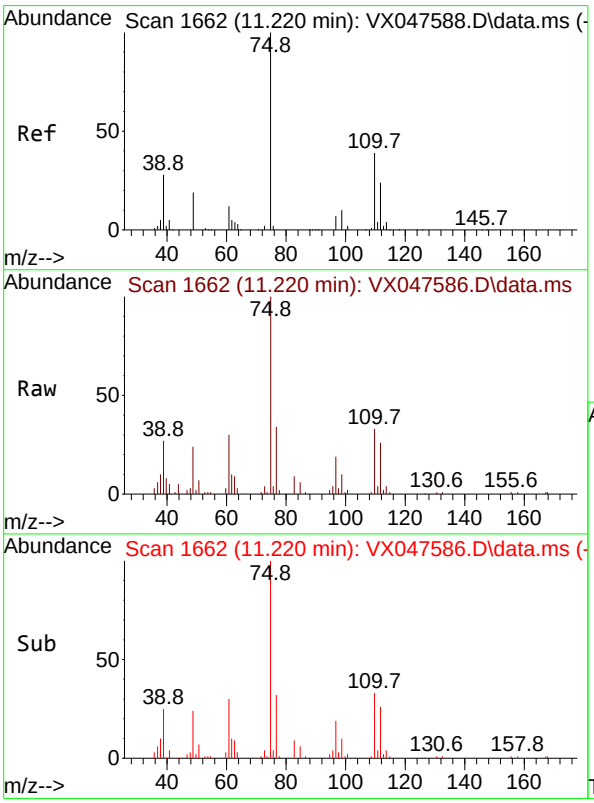
#75
1,1,2,2-Tetrachloroethane
Concen: 5.138 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 18462

Ion	Ratio	Lower	Upper
83	100		
131	8.2	5.0	14.9
85	64.4	31.6	95.0

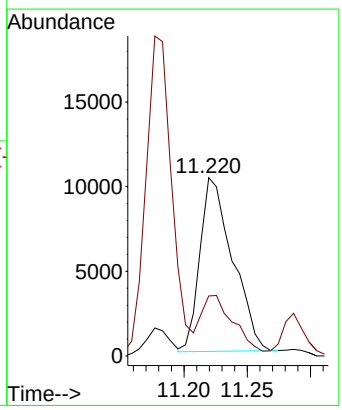


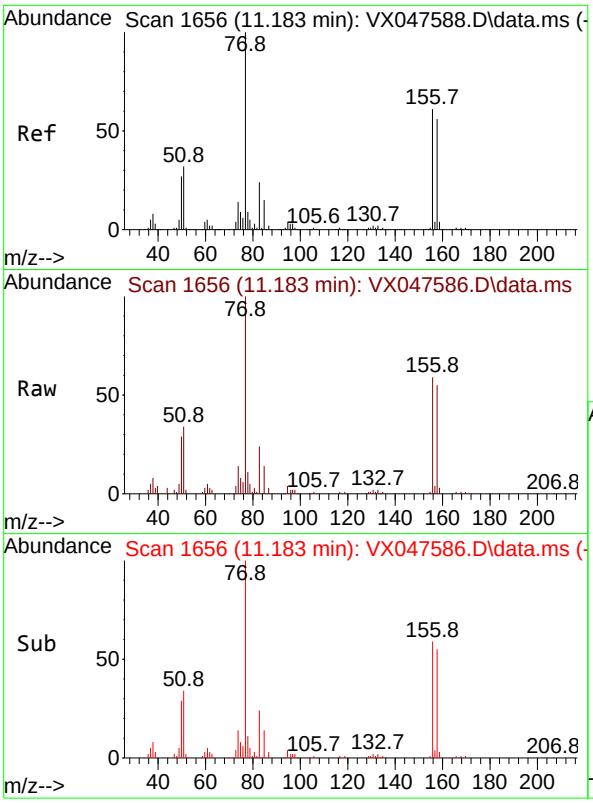


#76
1,2,3-Trichloropropane
Concen: 5.847 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 18494

Ion	Ratio	Lower	Upper
75	100		
77	35.0	18.8	56.4



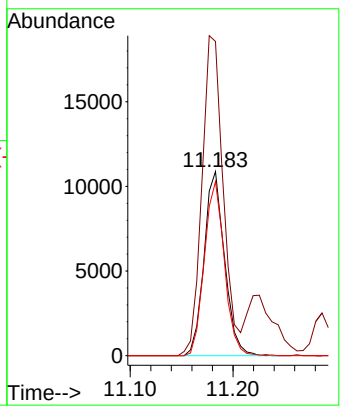


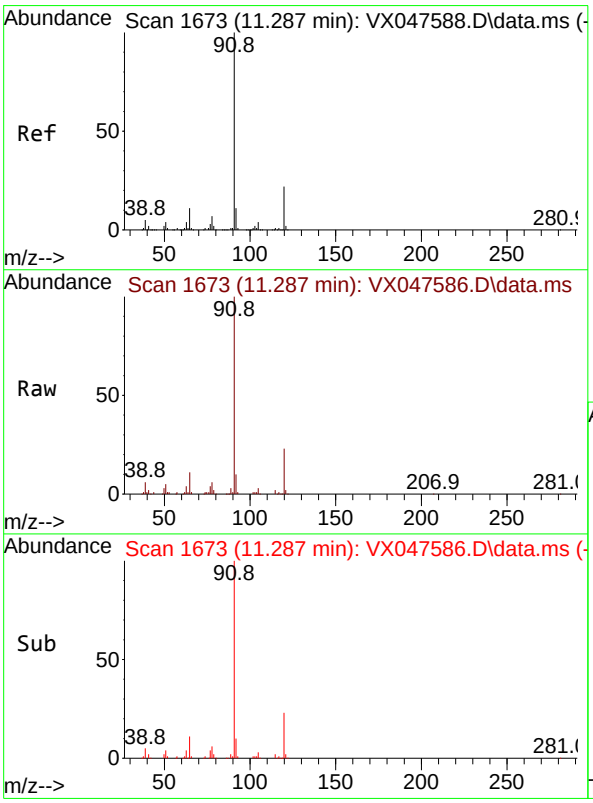
#77
Bromobenzene
Concen: 5.150 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 15066

Ion	Ratio	Lower	Upper
156	100		
77	180.3	89.7	269.1
158	92.6	47.9	143.6

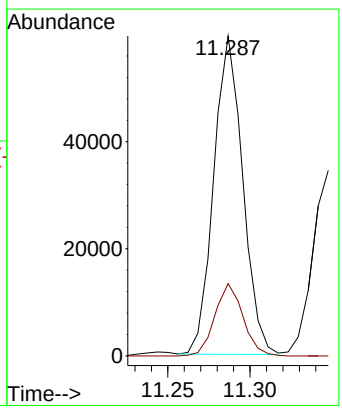


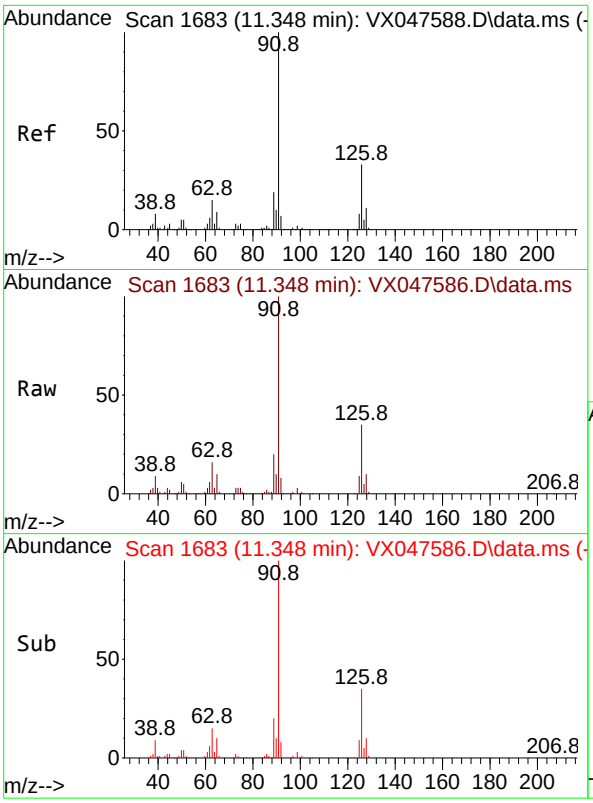


#78
n-propylbenzene
Concen: 5.192 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 72900

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.1



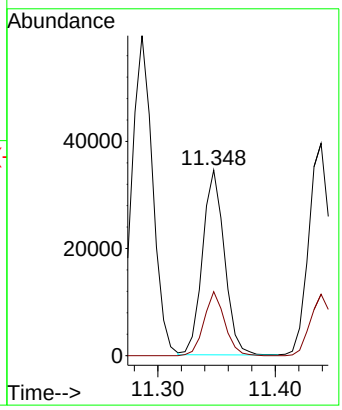


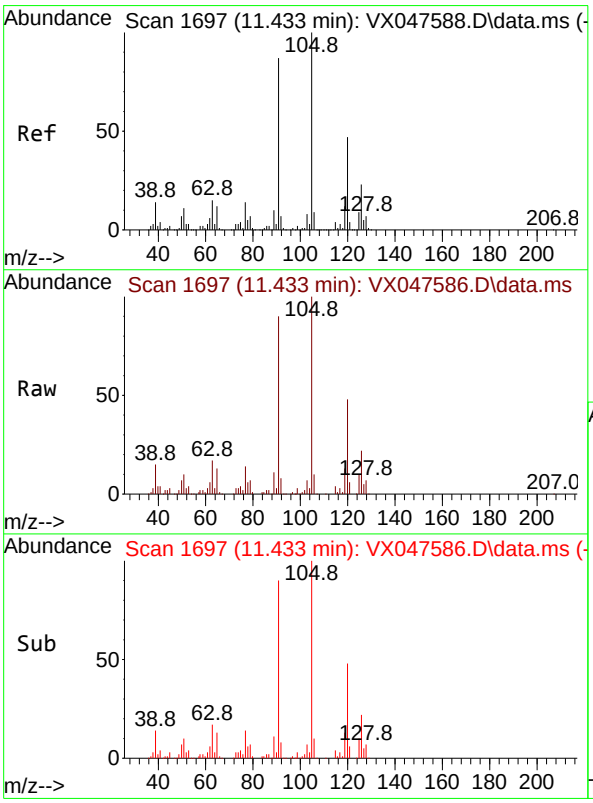
#79
2-Chlorotoluene
Concen: 5.194 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 44663

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

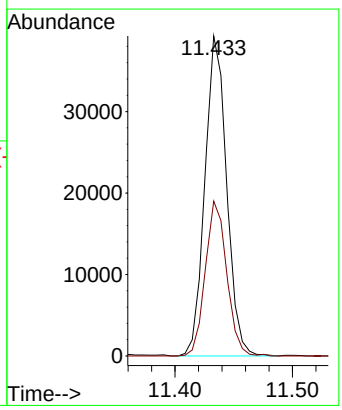


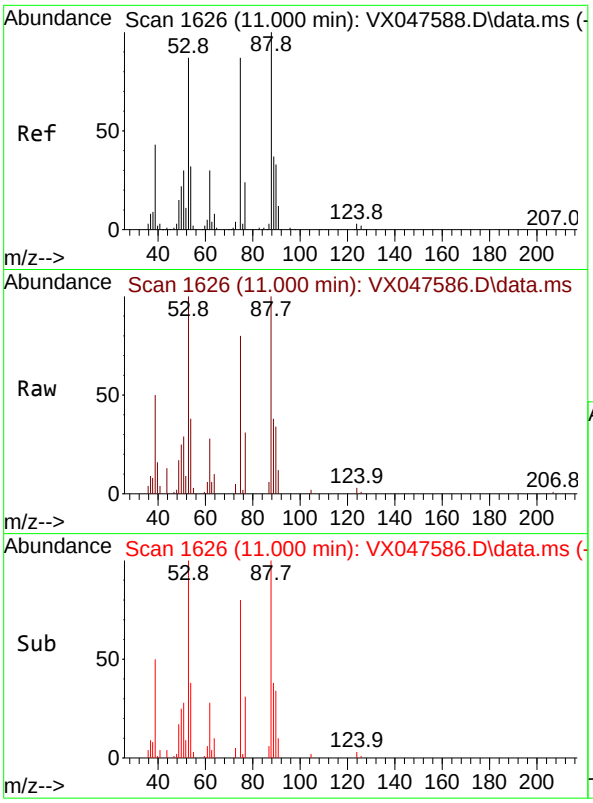


#80
1,3,5-Trimethylbenzene
Concen: 5.179 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 50535

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8



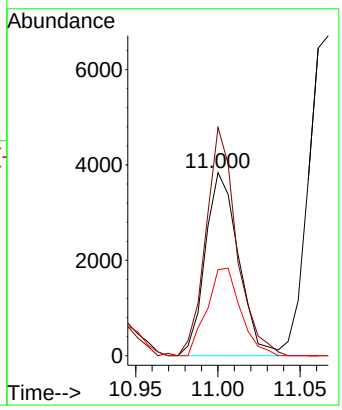


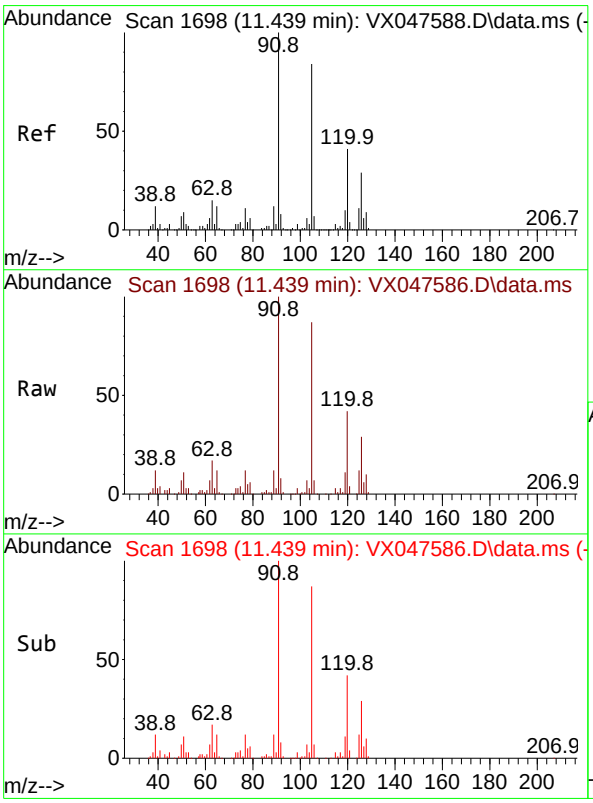
#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 5413

Ion	Ratio	Lower	Upper
75	100		
53	114.9	83.4	125.2
89	48.3	36.3	54.5

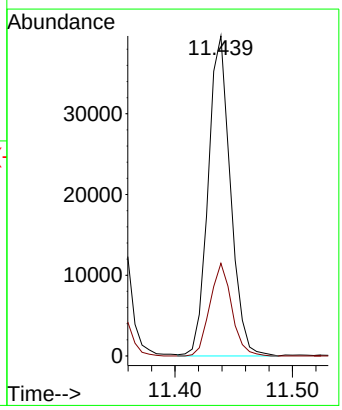


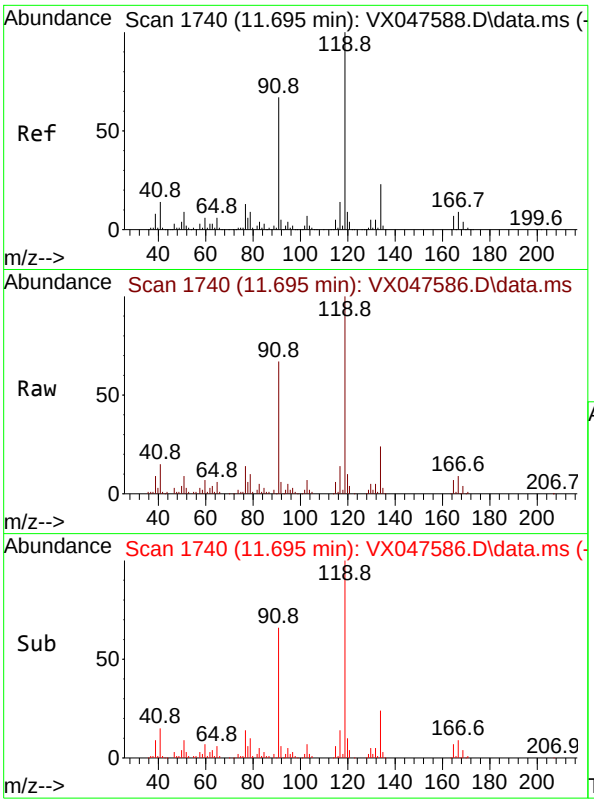


#82
4-Chlorotoluene
Concen: 5.149 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 52294

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6



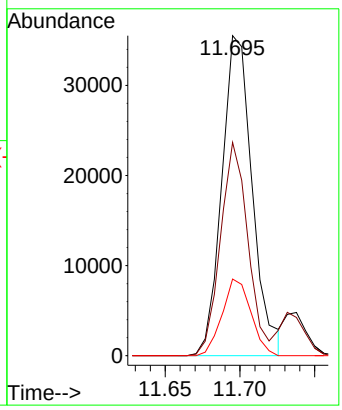


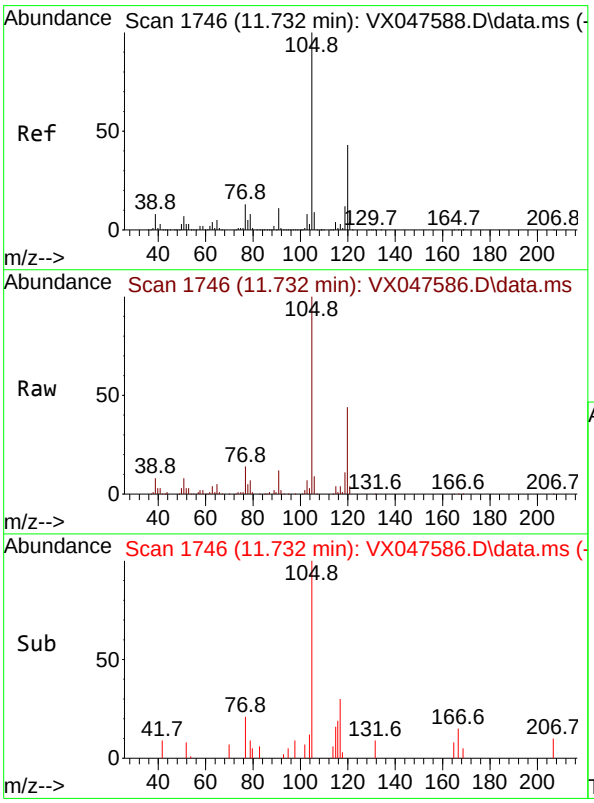
#83
tert-Butylbenzene
Concen: 5.041 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 50350

Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.6	88.8
134	22.7	11.0	33.0

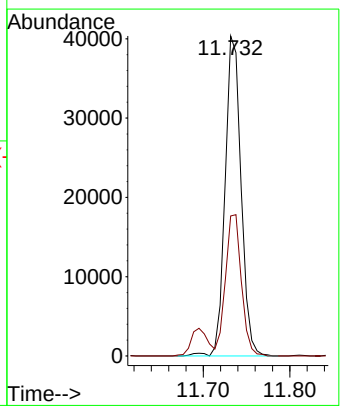


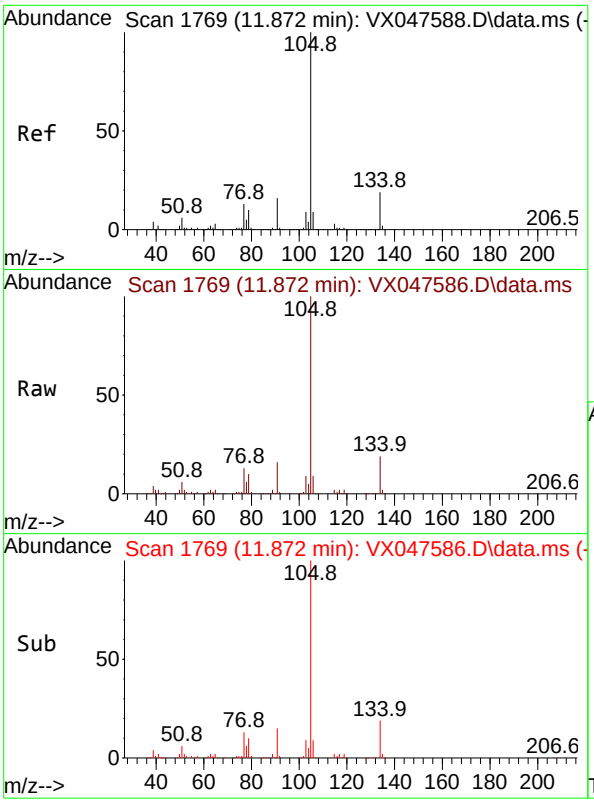


#84
1,2,4-Trimethylbenzene
Concen: 5.214 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 51583

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



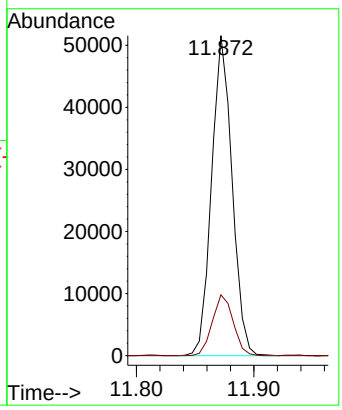


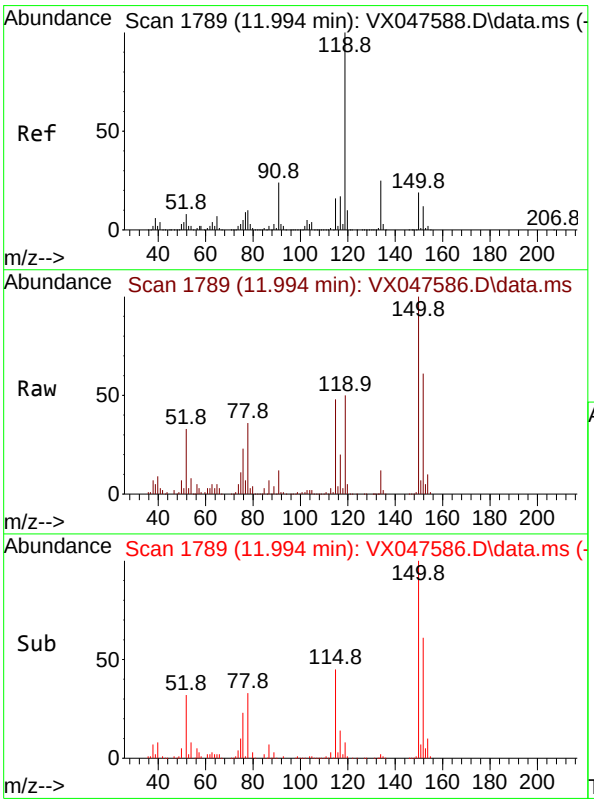
#85
sec-Butylbenzene
Concen: 5.268 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 62507

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

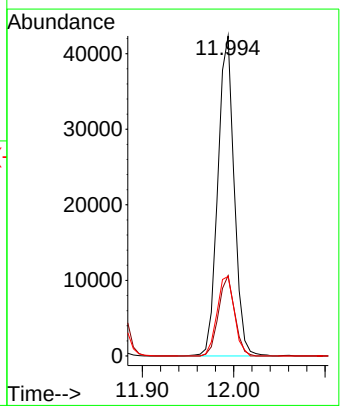


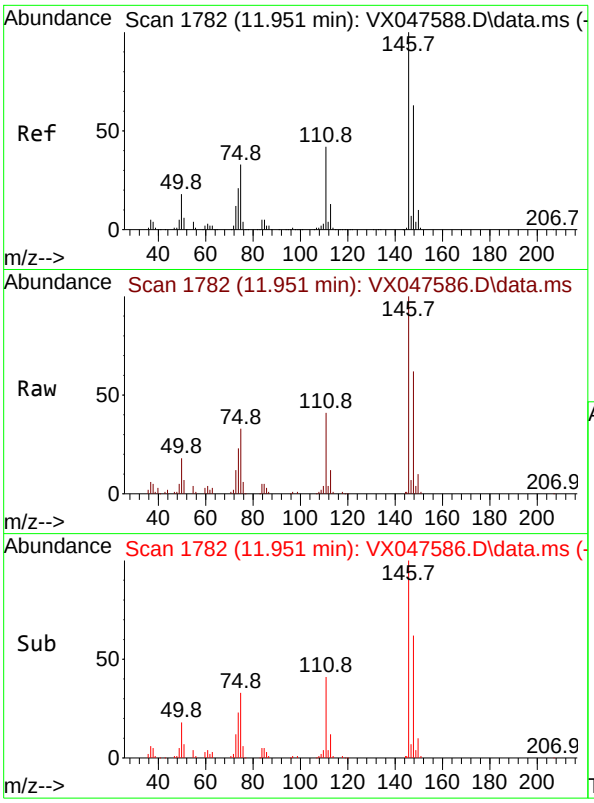


#86
p-Isopropyltoluene
Concen: 5.244 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 52674

Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.6	37.8
91	26.2	12.6	37.6



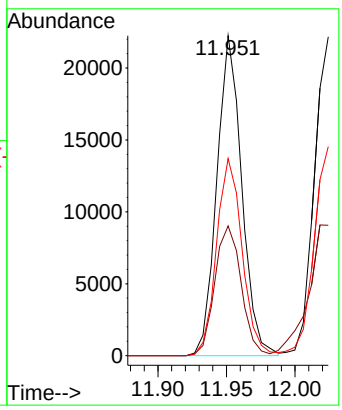


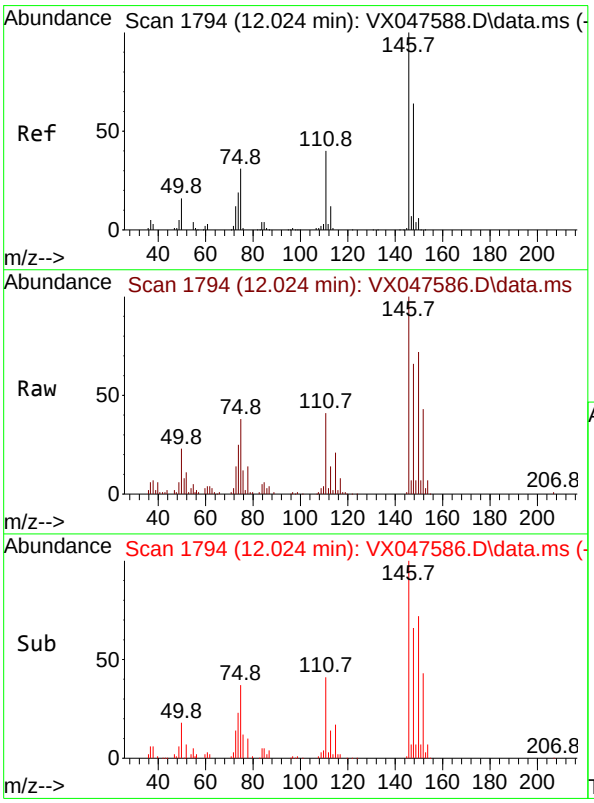
#87
1,3-Dichlorobenzene
Concen: 5.175 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 28116

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	63.4	32.0	96.0

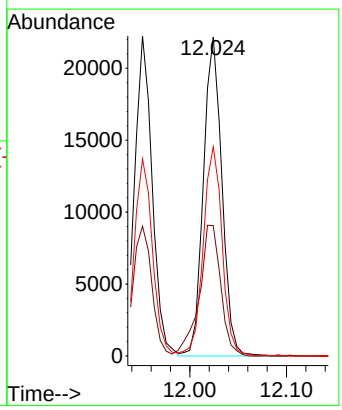


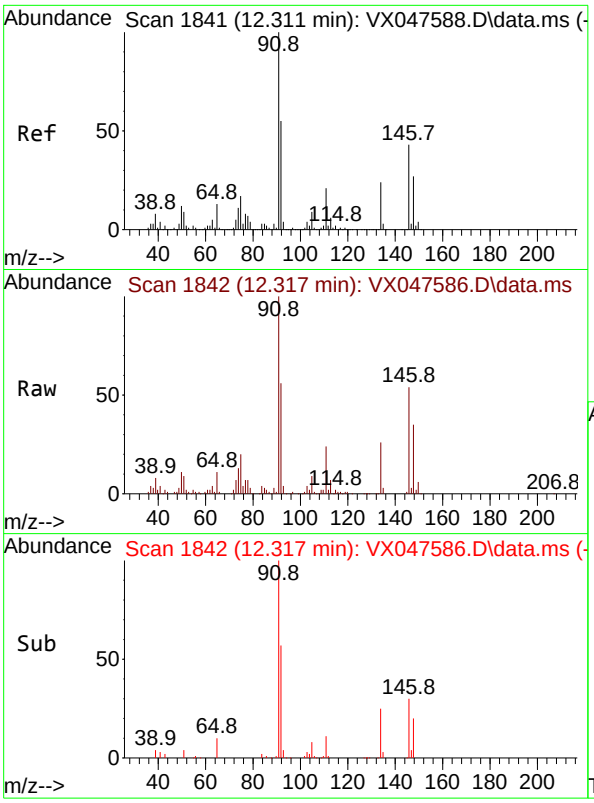


#88
1,4-Dichlorobenzene
Concen: 5.294 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 29519

Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.8	62.4
148	66.9	31.7	95.1



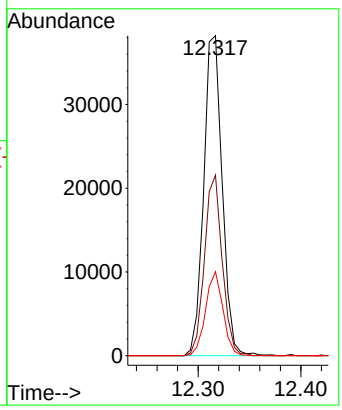


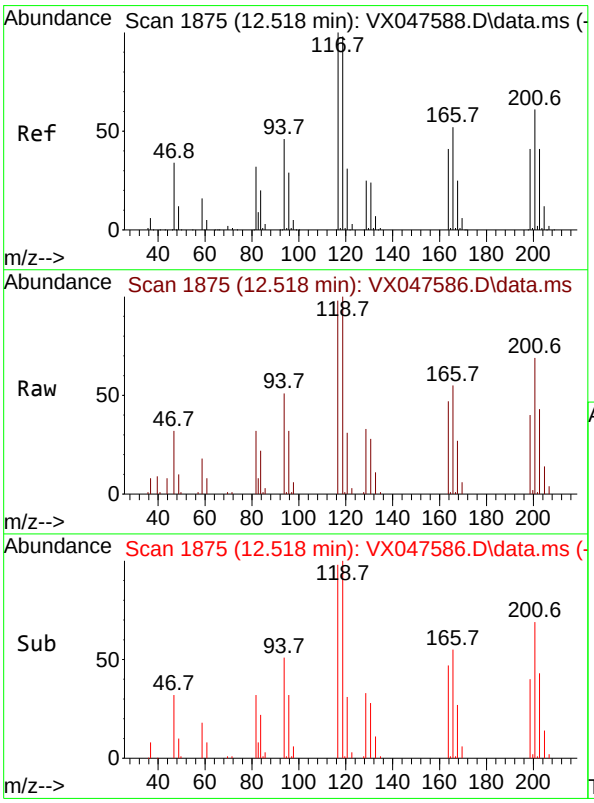
#89
n-Butylbenzene
Concen: 5.159 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 47953

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.7
134	24.6	12.6	37.8

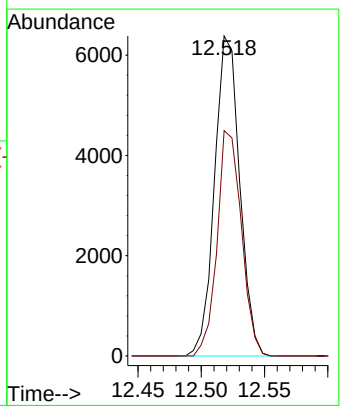


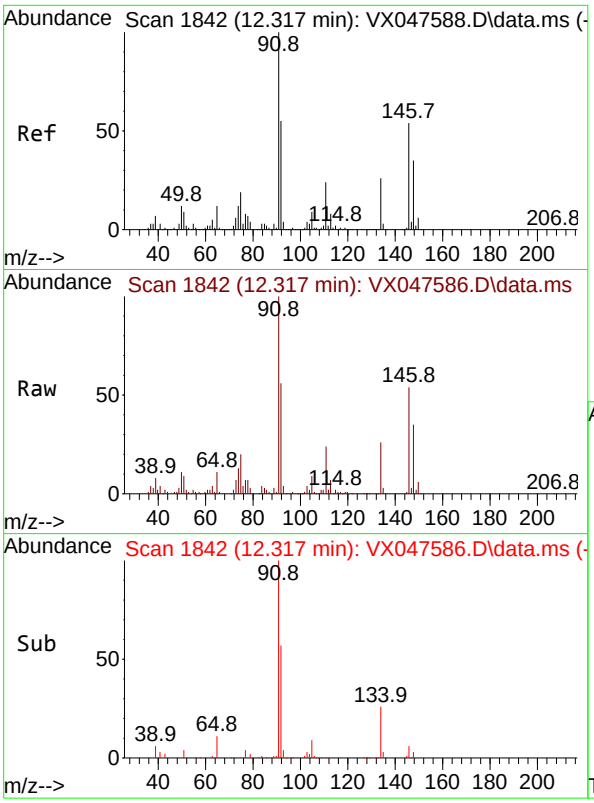


#90
Hexachloroethane
Concen: 5.007 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 8830

Ion	Ratio	Lower	Upper
117	100		
201	67.9	34.2	102.5



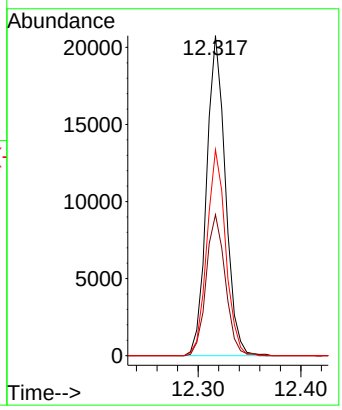


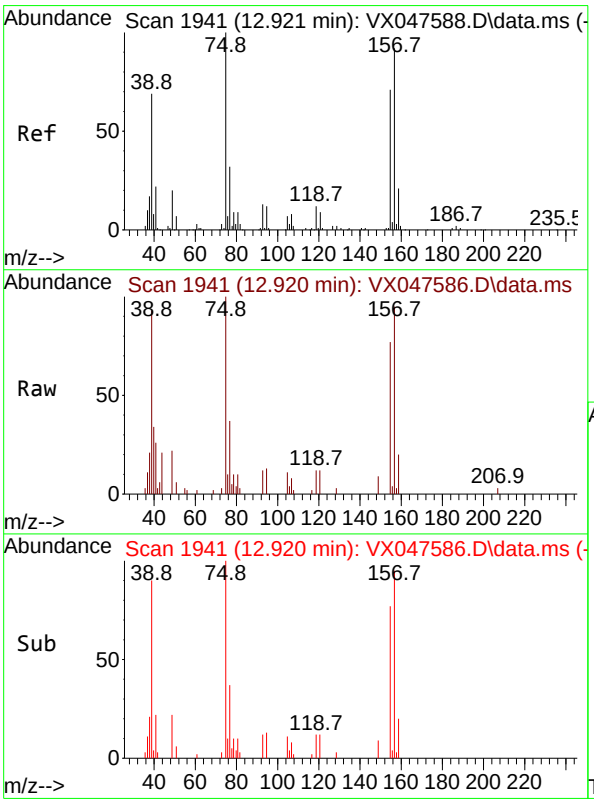
#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 26409

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.2	66.6
148	64.2	31.8	95.4

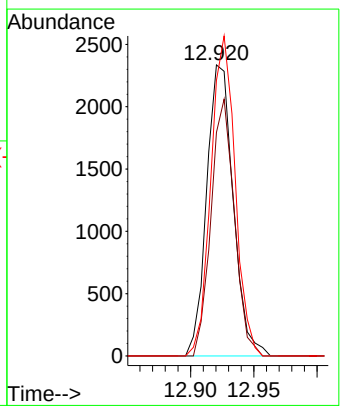


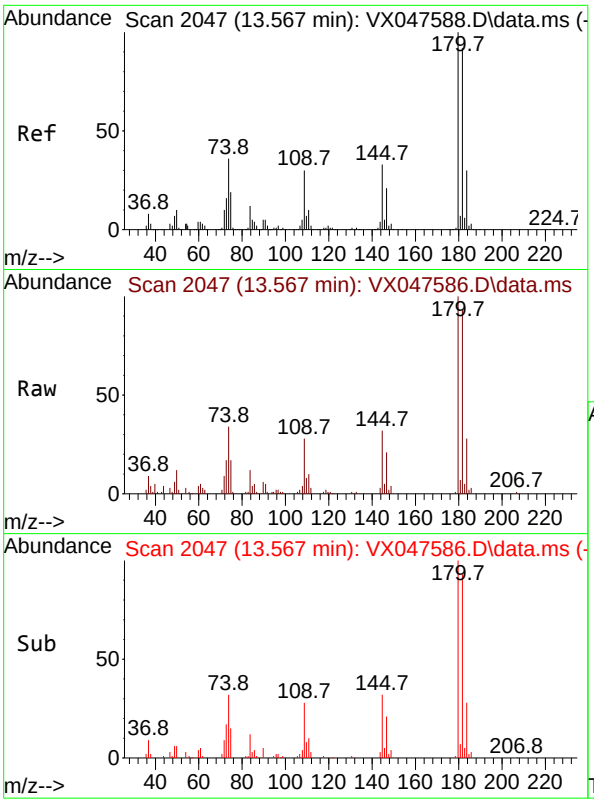


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.690 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 3412

Ion	Ratio	Lower	Upper
75	100		
155	77.4	37.7	113.1
157	100.1	49.8	149.4



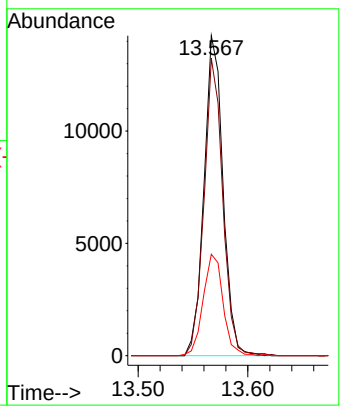


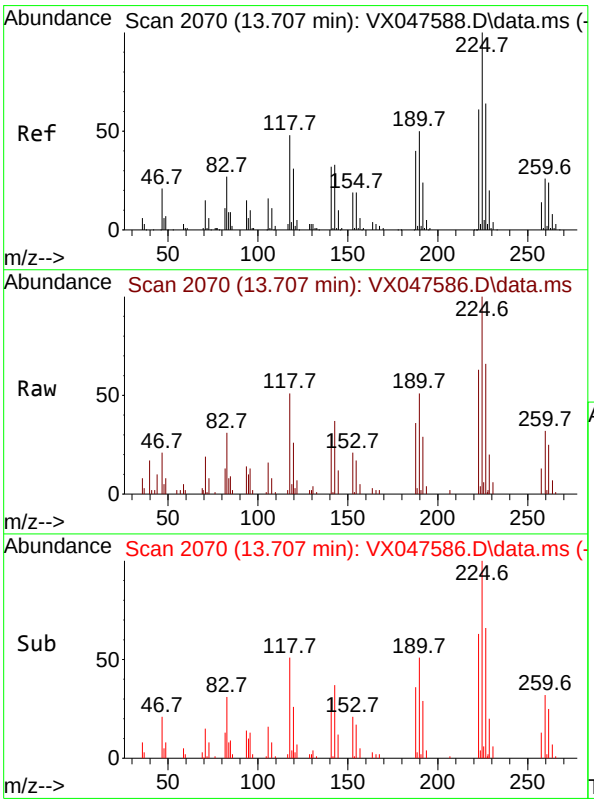
#93
1,2,4-Trichlorobenzene
Concen: 5.103 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 17167

Ion	Ratio	Lower	Upper
180	100		
182	91.2	46.6	139.8
145	33.2	16.4	49.1

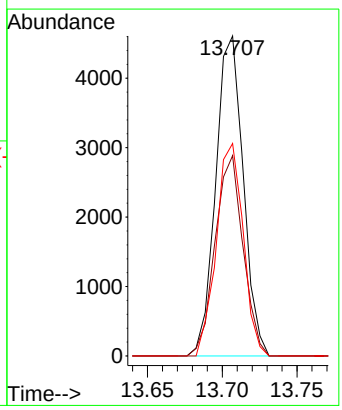


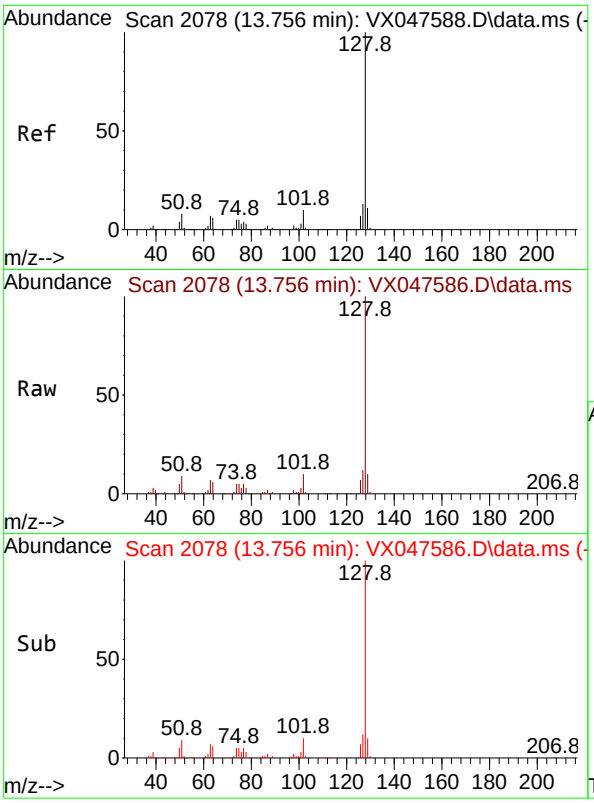


#94
Hexachlorobutadiene
Concen: 5.158 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:225 Resp: 5894

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	64.7	32.0	96.0



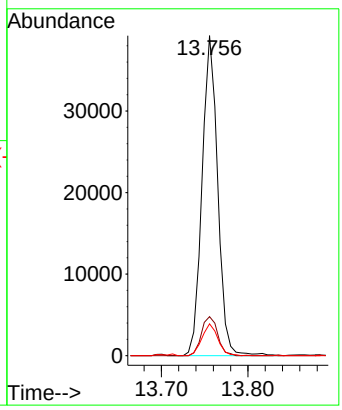


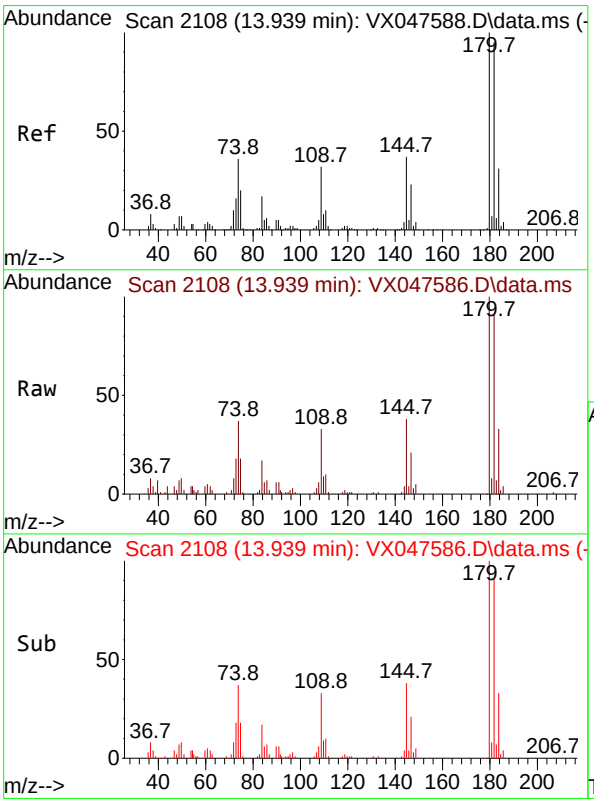
#95
Naphthalene
Concen: 4.808 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 49257

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.1	8.8	13.2

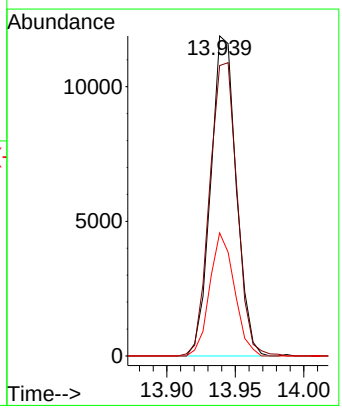




#96
1,2,3-Trichlorobenzene
Concen: 4.921 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 15400

Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.6	142.8
145	37.1	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 32.520%#			
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 31.740%#			
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 32.520%#			
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 32.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l		99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l		99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l		100
44) Trichloroethene	7.110	130	51369	21.228	ug/l		97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l		97
46) Dibromomethane	7.568	93	38910	20.862	ug/l		99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l		98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l		98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l		95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l		100
52) Toluene	8.708	92	129193	20.950	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l		99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l		98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l		99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l		100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l		99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l		99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l		99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l		95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l		99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l		98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l		100
69) o-Xylene	10.628	106	87651	20.799	ug/l		98
70) Styrene	10.640	104	154077	20.866	ug/l		99
71) Bromoform	10.780	173	35922	20.550	ug/l	#	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l		99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l		99
76) 1,2,3-Trichloropropane	11.225	75	76996	26.858	ug/l		89
77) Bromobenzene	11.183	156	56161	21.183	ug/l		99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l		100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l		96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l		100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l		100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l		98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l		100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l		99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l		99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l		96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l		98
95) Naphthalene	13.756	128	193134	20.801	ug/l		99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

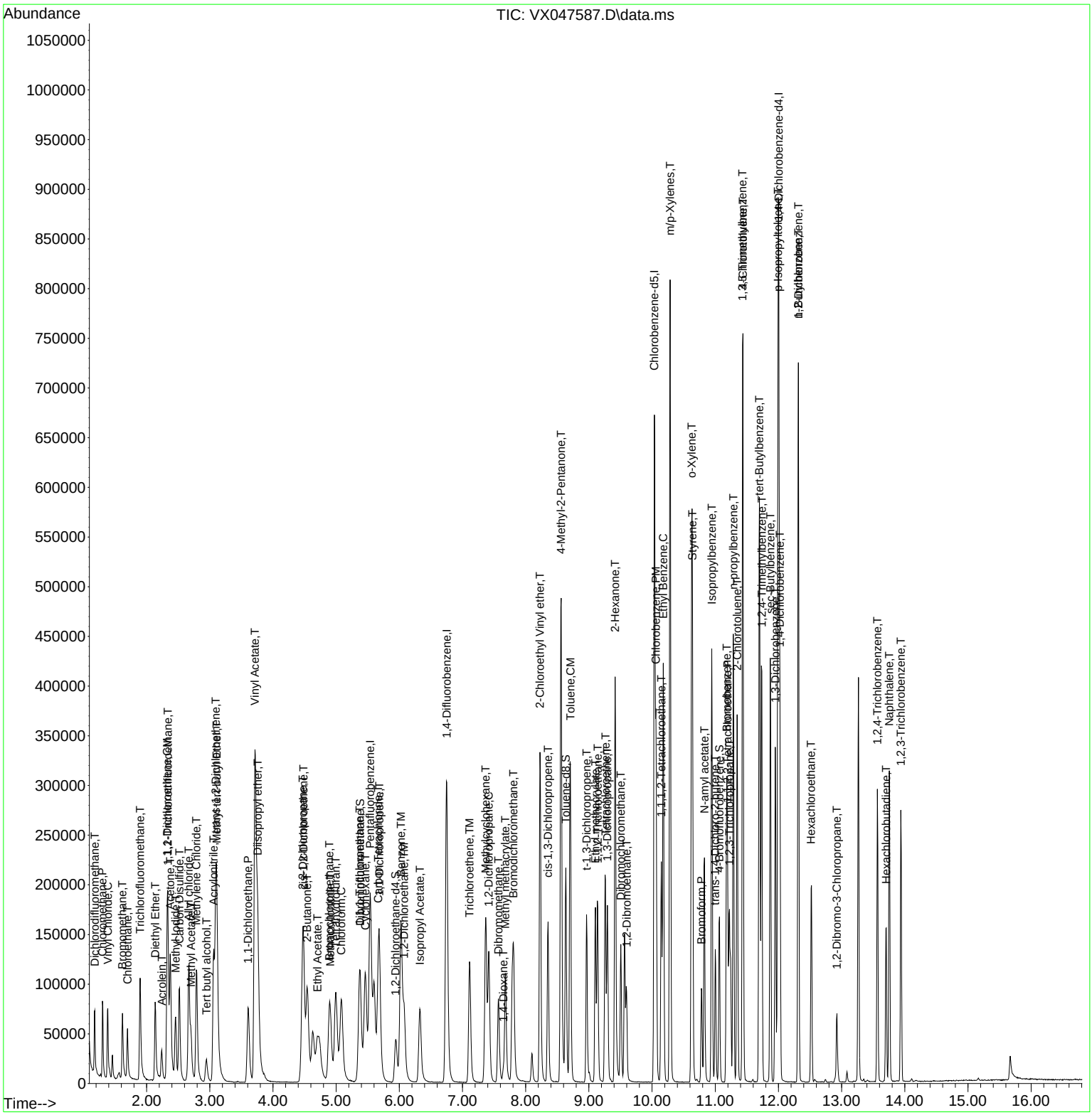
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

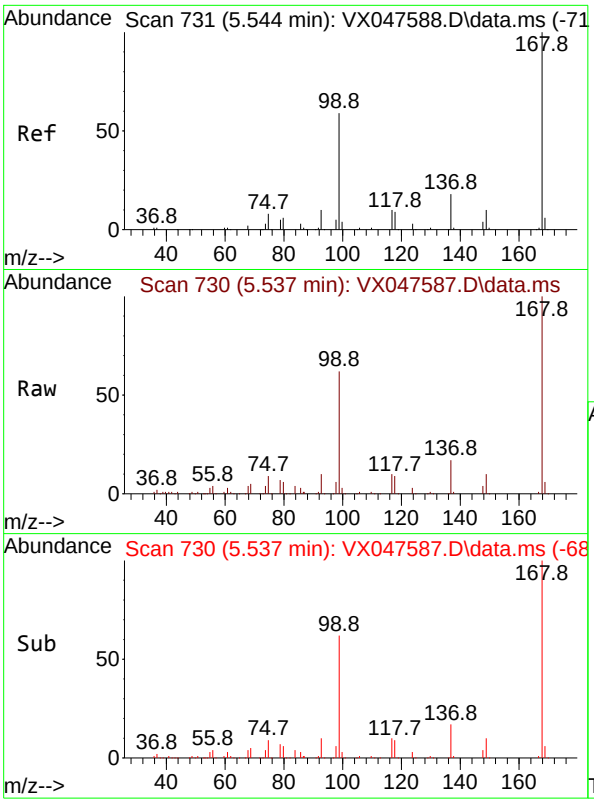
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



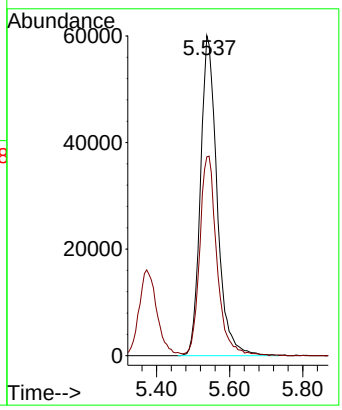


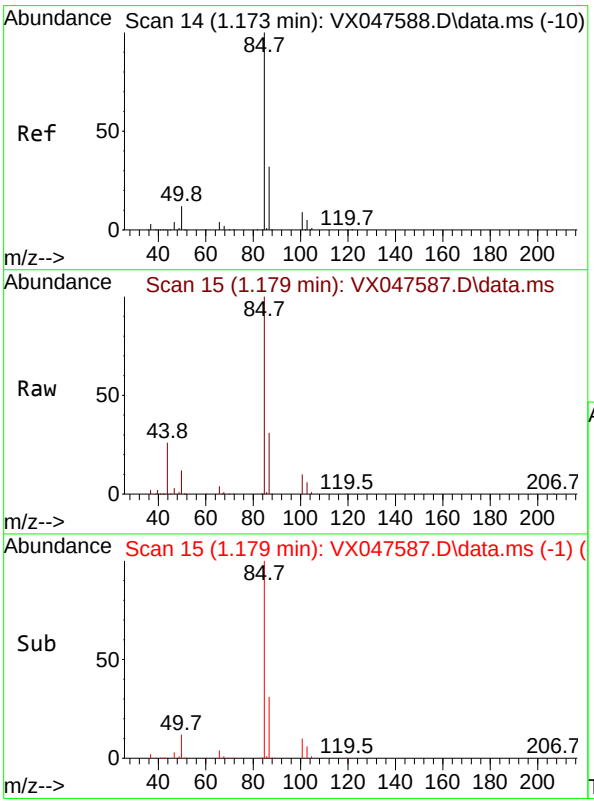
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 189559

Ion	Ratio	Lower	Upper
168	100		
99	61.9	48.8	73.2

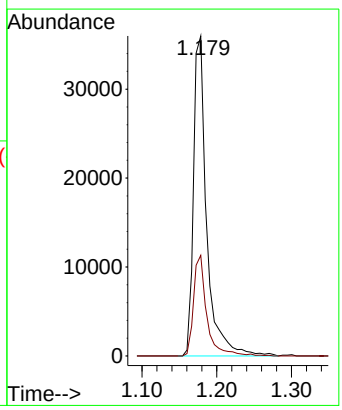


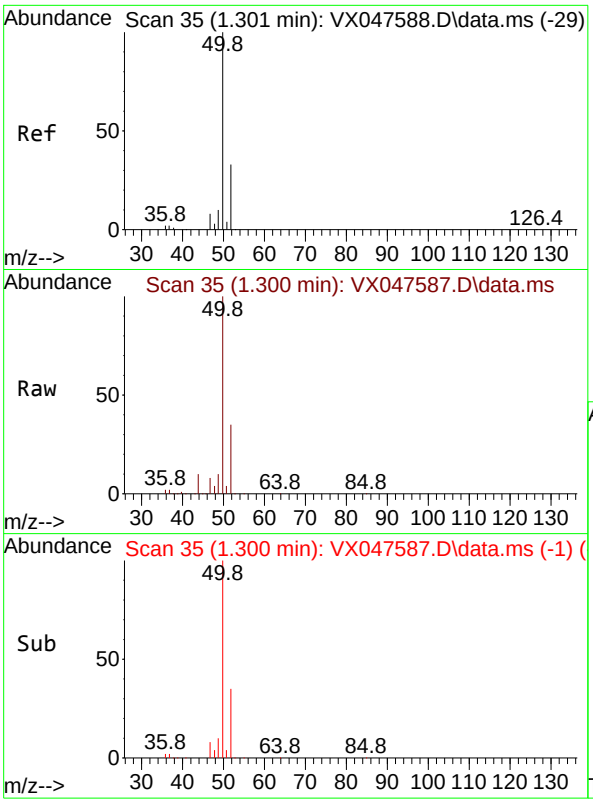


#2
Dichlorodifluoromethane
Concen: 22.480 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 85 Resp: 44126

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3



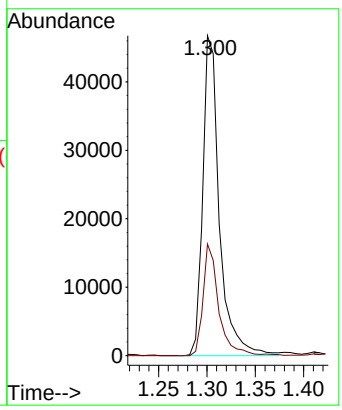


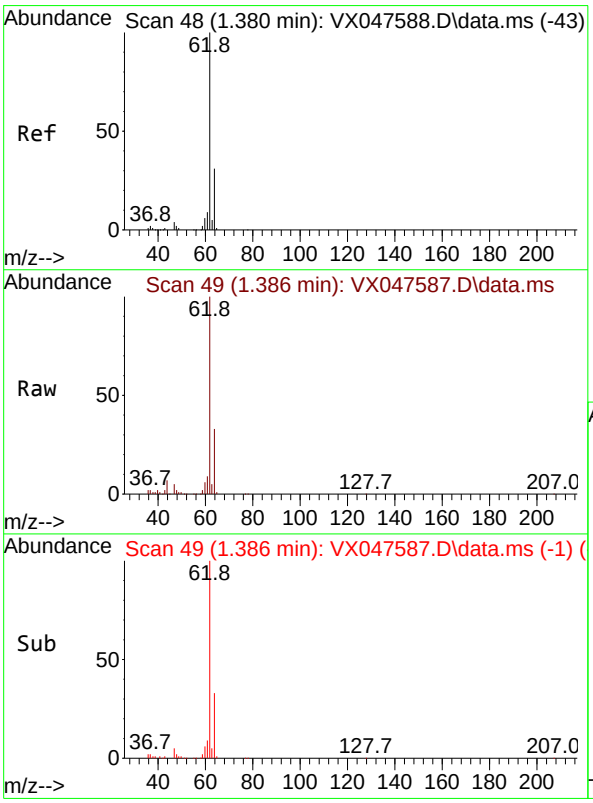
#3
Chloromethane
Concen: 21.716 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 56023

Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.1	39.1

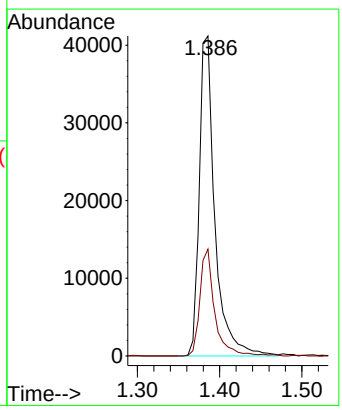


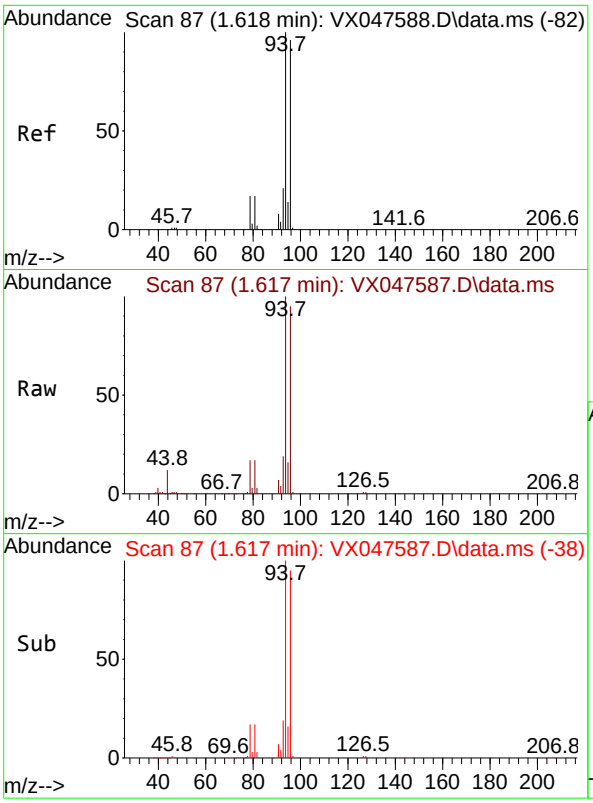


#4
Vinyl Chloride
Concen: 21.485 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 54256

Ion	Ratio	Lower	Upper
62	100		
64	33.4	24.9	37.3



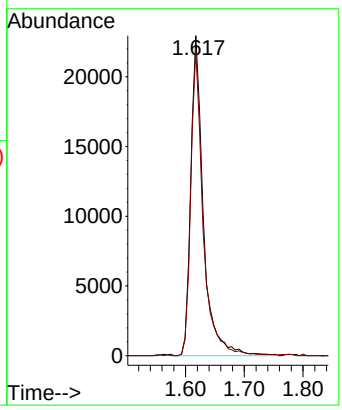


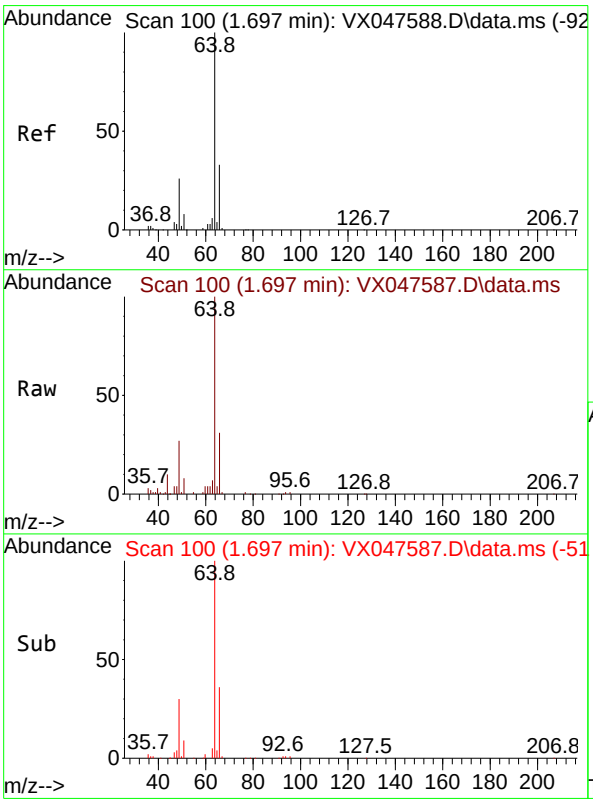
#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 34193

Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0

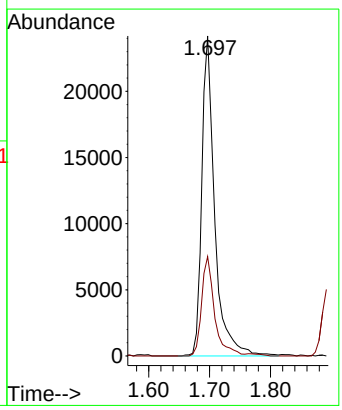


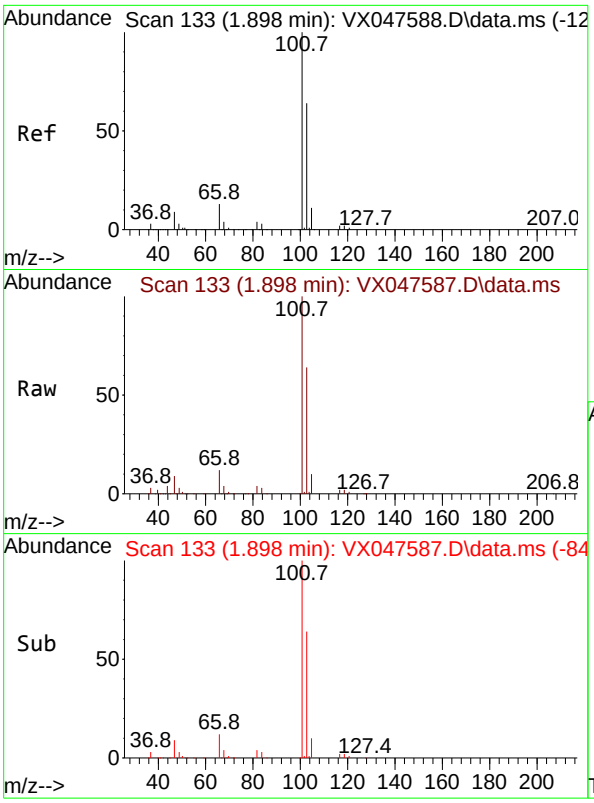


#6
Chloroethane
Concen: 21.063 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 64 Resp: 35551

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1



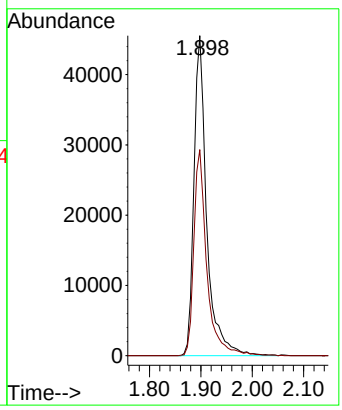


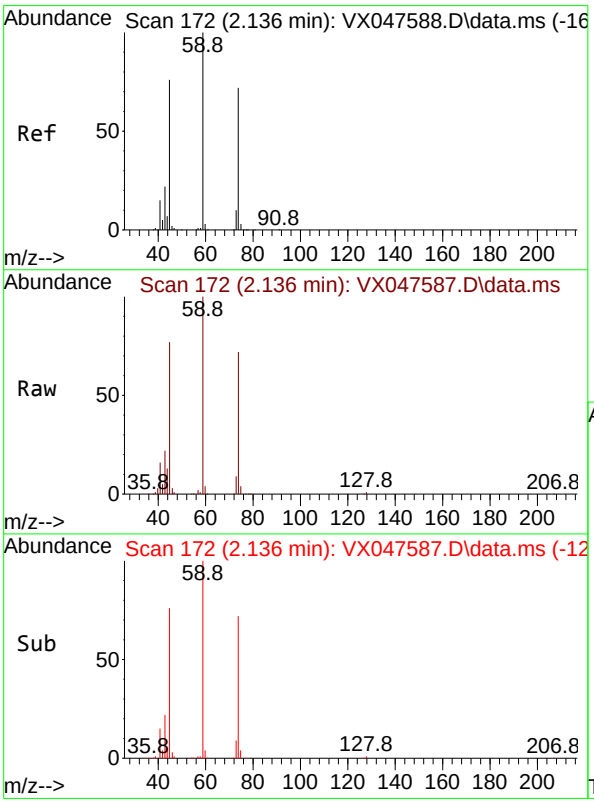
#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 78667

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

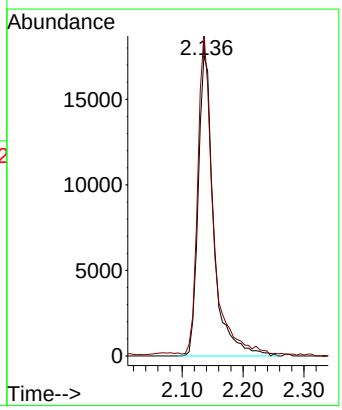


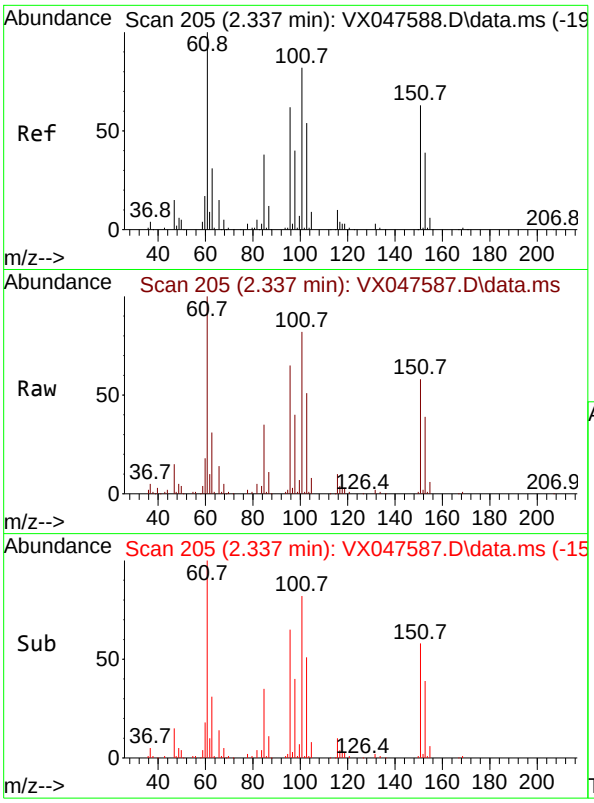


#8
Diethyl Ether
Concen: 20.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 74 Resp: 31335

Ion	Ratio	Lower	Upper
74	100		
45	107.0	52.3	156.8



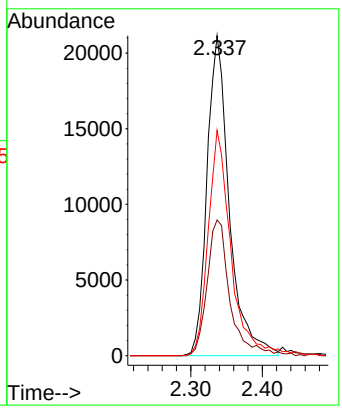


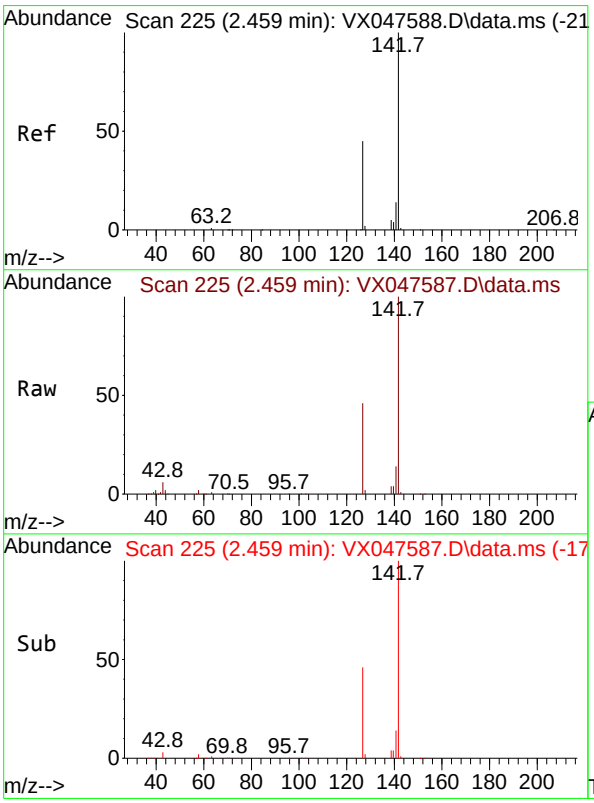
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.859 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 45733

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	72.1	59.4	89.0

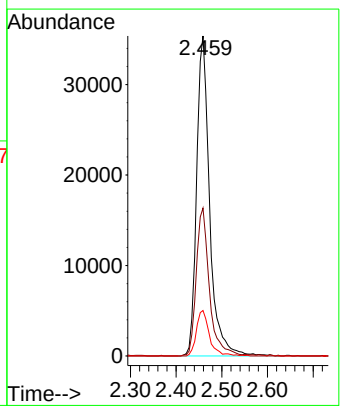


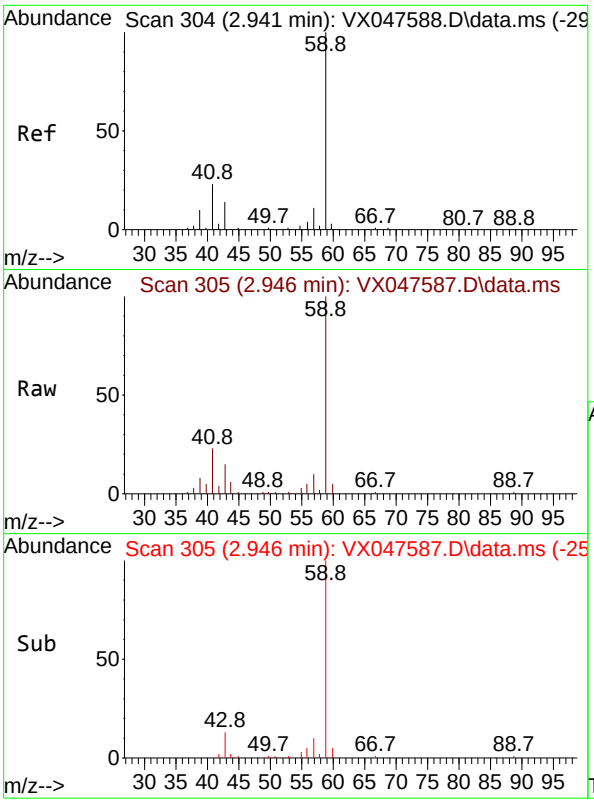


#10
Methyl Iodide
Concen: 20.452 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:142 Resp: 69935

Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.3	11.4	17.0



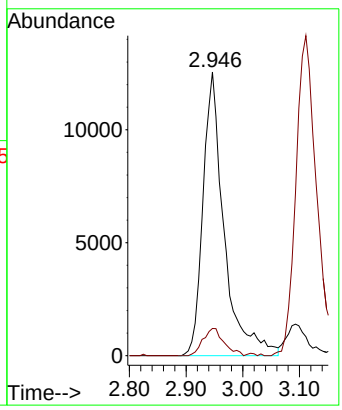


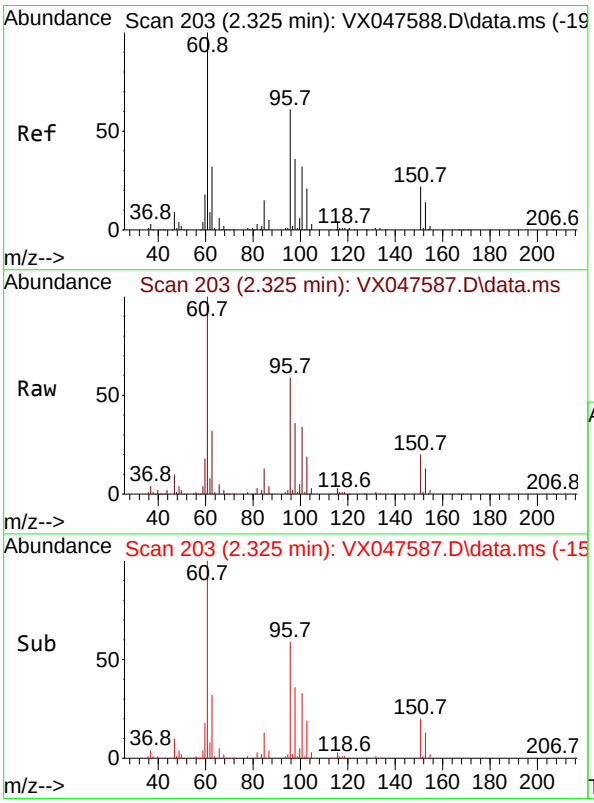
#11
Tert butyl alcohol
Concen: 96.582 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 32456

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.3	12.5

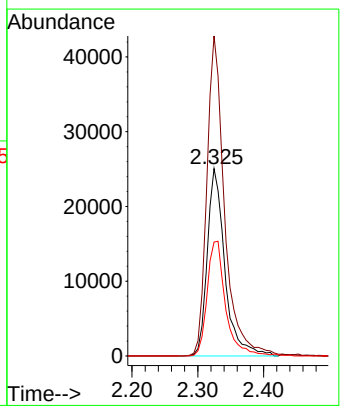


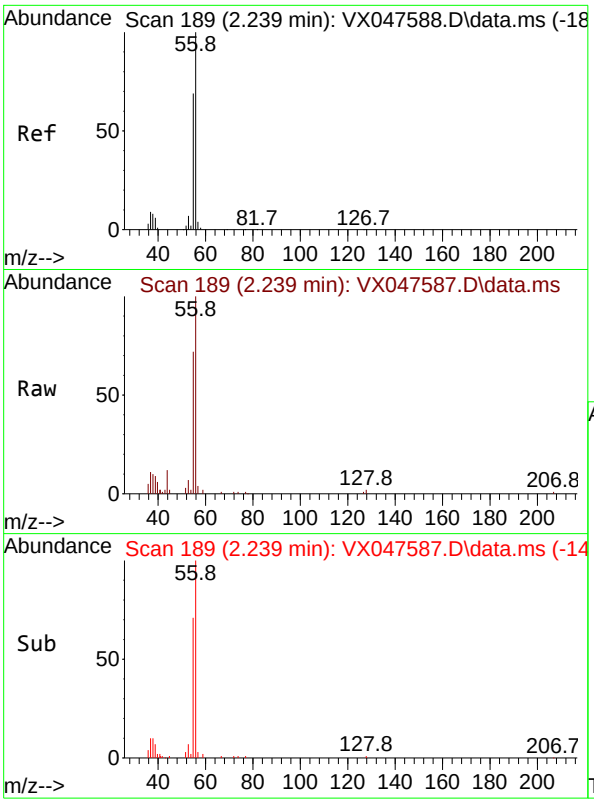


#12
1,1-Dichloroethene
Concen: 20.808 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 46863

Ion	Ratio	Lower	Upper
96	100		
61	170.7	131.0	196.6
98	60.8	47.7	71.5



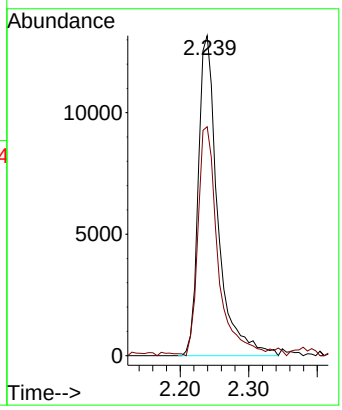


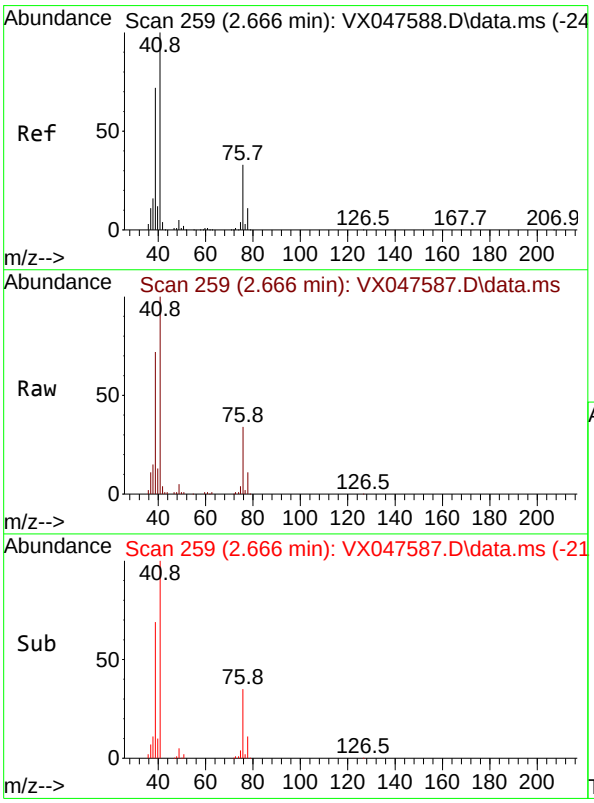
#13
Acrolein
Concen: 84.473 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 26159

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8

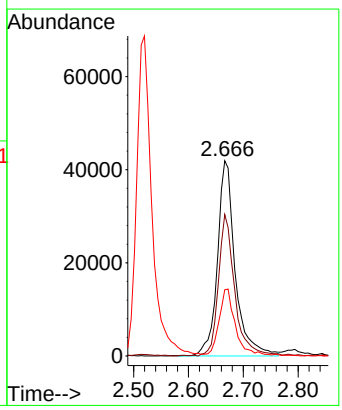


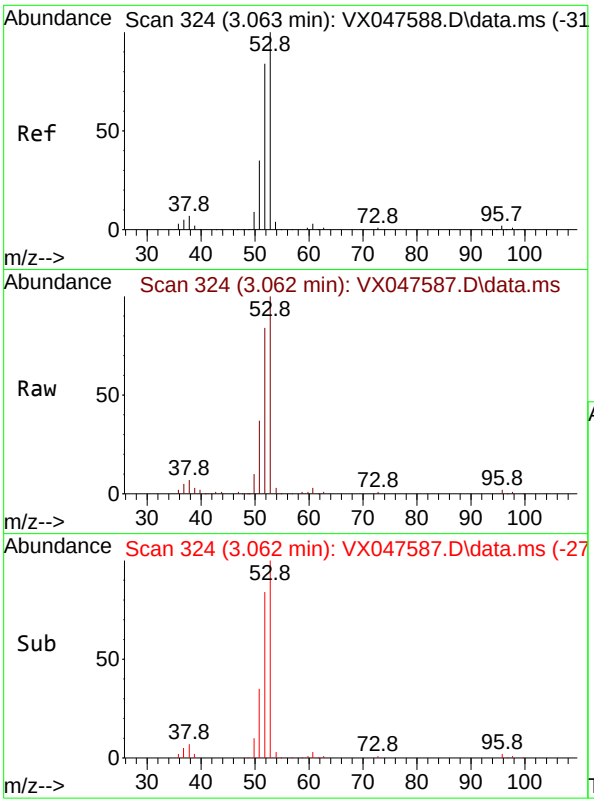


#14
Allyl chloride
Concen: 20.379 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 94710

Ion	Ratio	Lower	Upper
41	100		
39	65.5	54.7	82.1
76	30.3	25.7	38.5



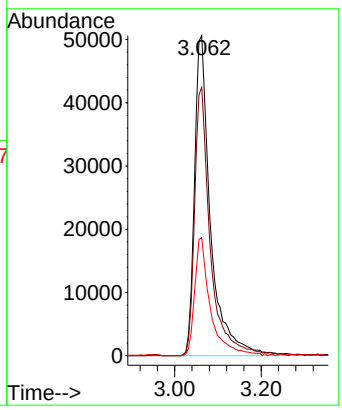


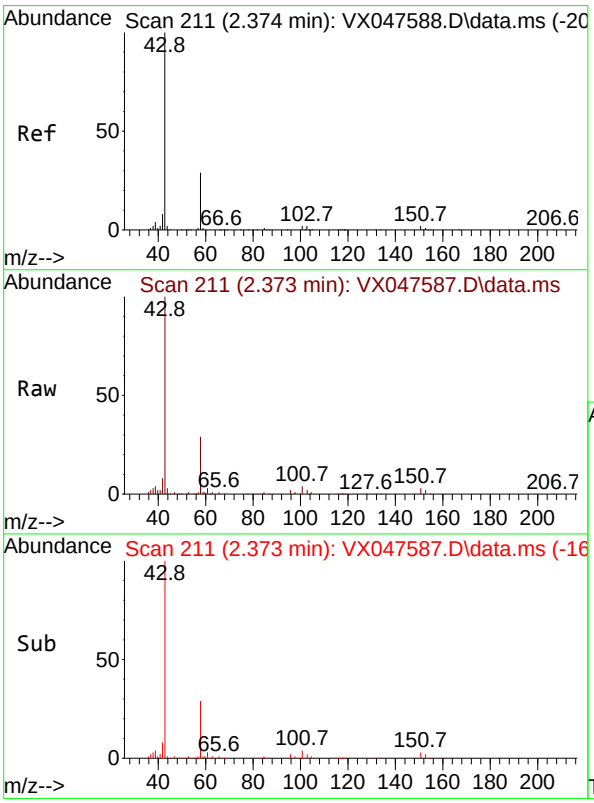
#15
Acrylonitrile
Concen: 104.554 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 130143

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3

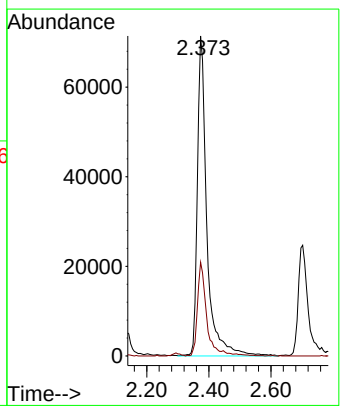


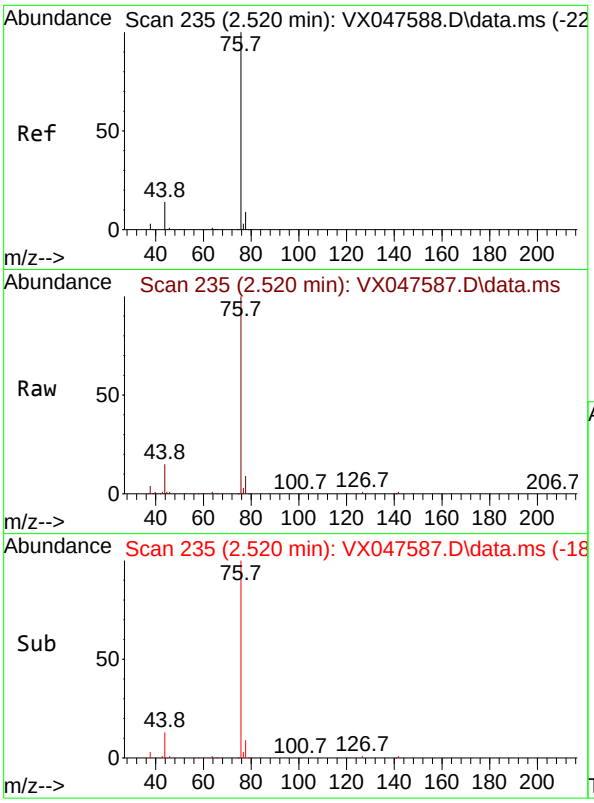


#16
Acetone
Concen: 115.507 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 151538

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.4	35.0



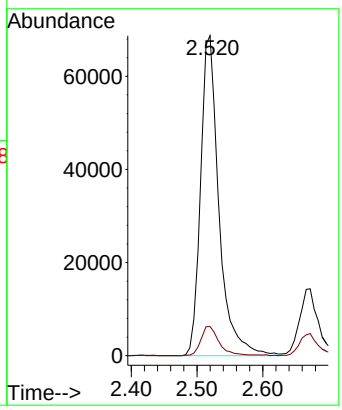


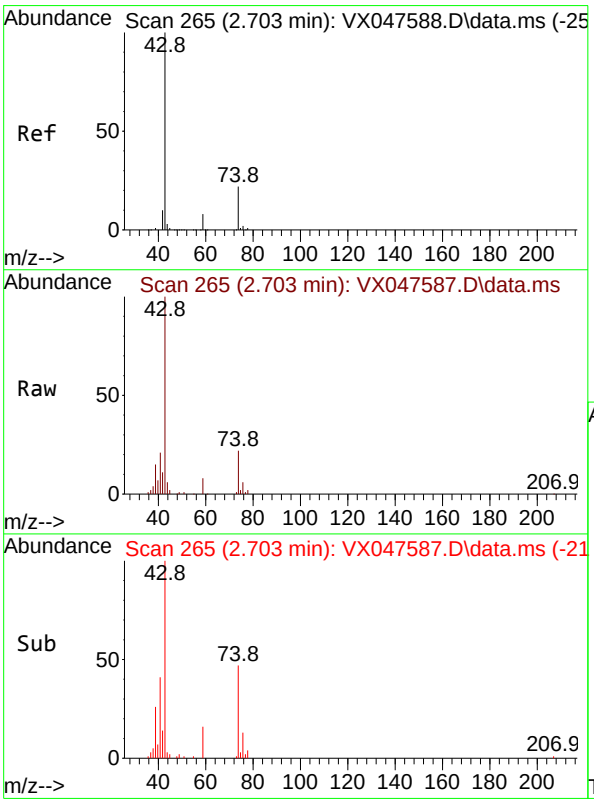
#17
Carbon Disulfide
Concen: 21.620 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 133296

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2

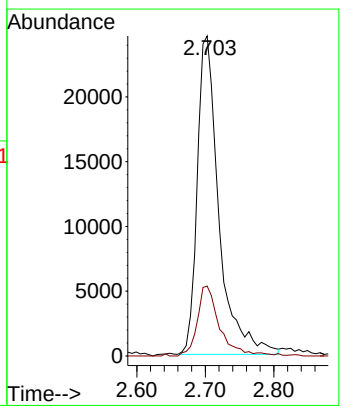


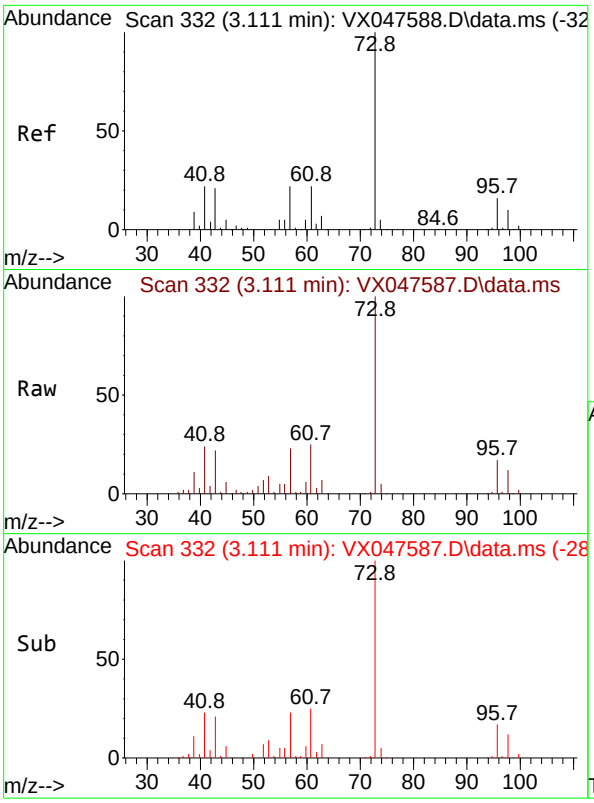


#18
Methyl Acetate
Concen: 18.536 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 54120

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



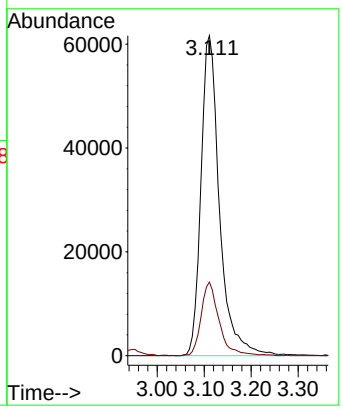


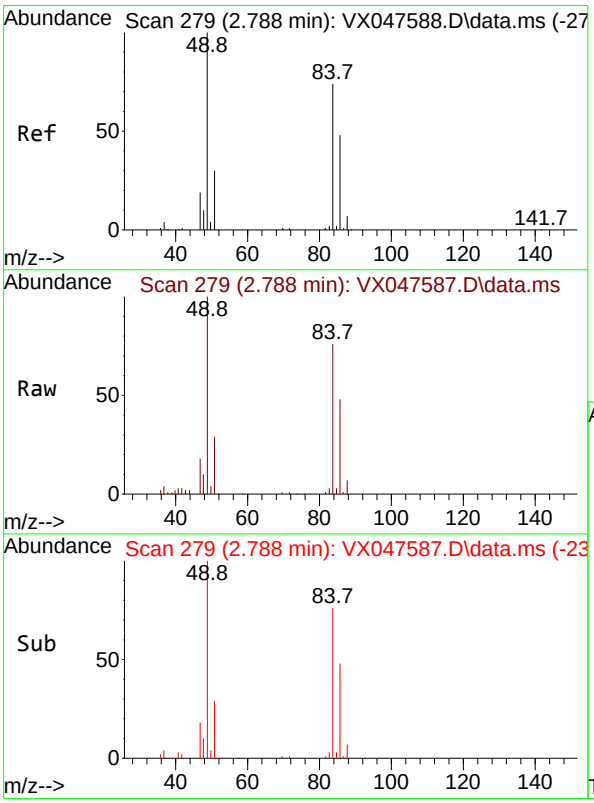
#19
Methyl tert-butyl Ether
Concen: 20.486 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 168426

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.4	26.2

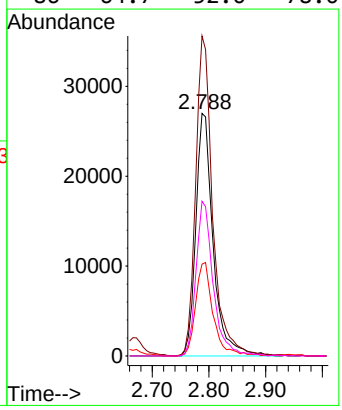


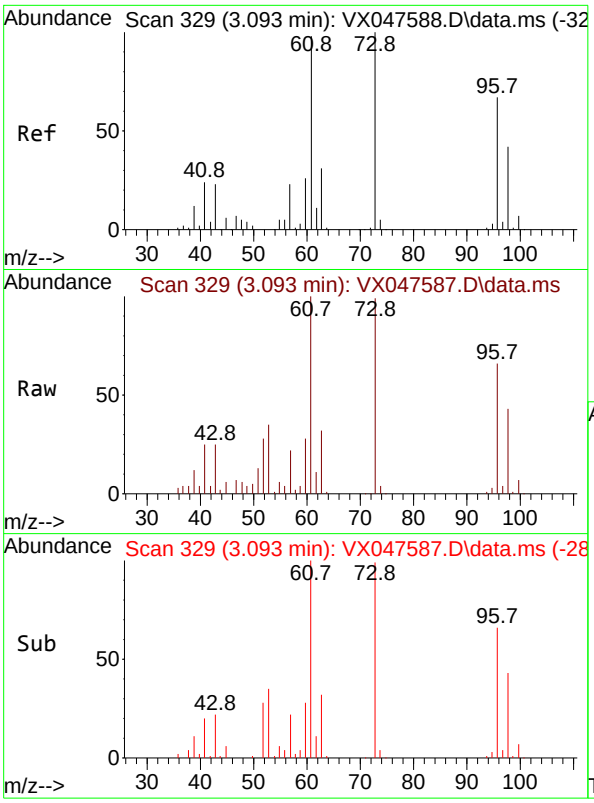


#20
Methylene Chloride
Concen: 20.581 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 84 Resp: 57153

Ion	Ratio	Lower	Upper
84	100		
49	131.7	108.6	162.8
51	37.9	32.6	48.8
86	64.7	52.0	78.0



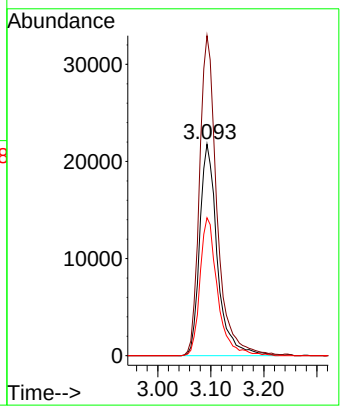


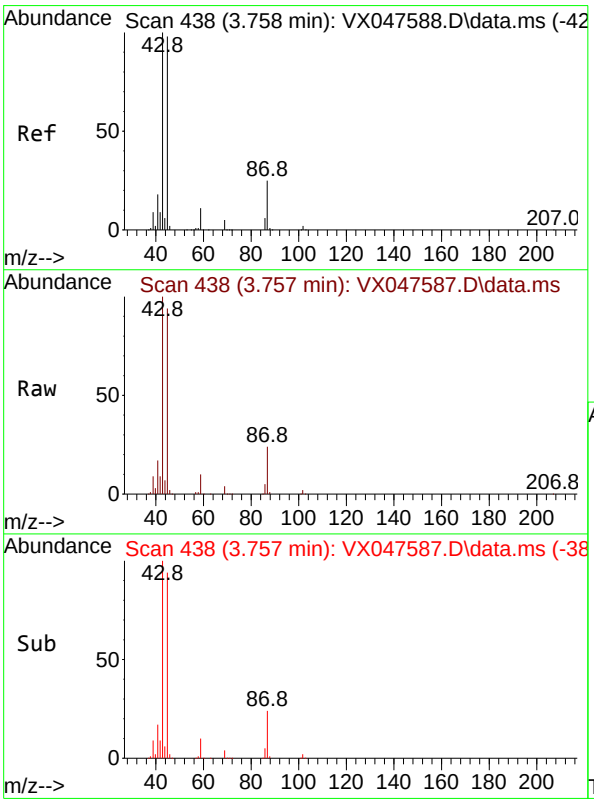
#21
trans-1,2-Dichloroethene
Concen: 20.791 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 50413

Ion	Ratio	Lower	Upper
96	100		
61	151.3	116.2	174.2
98	67.2	49.3	73.9

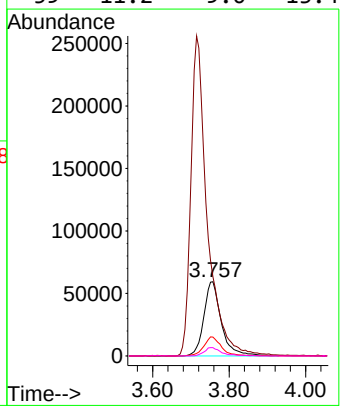


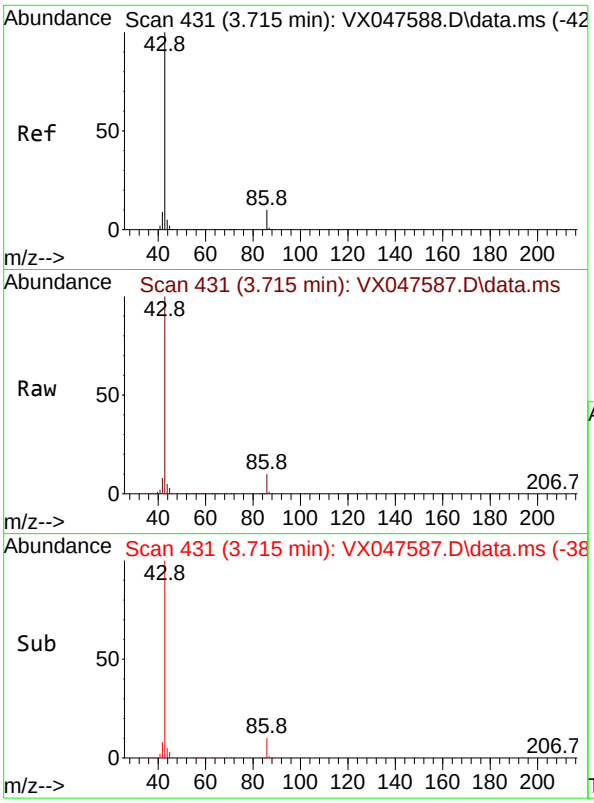


#22
Diisopropyl ether
Concen: 20.940 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 45 Resp: 188598

Ion	Ratio	Lower	Upper
45	100		
43	106.1	81.0	121.4
87	25.5	20.3	30.5
59	11.2	9.0	13.4



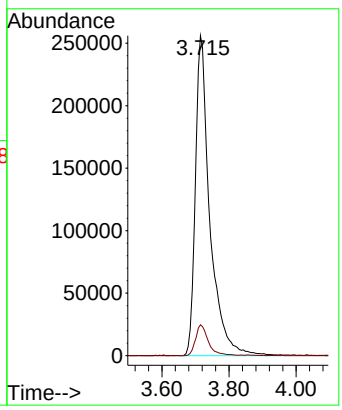


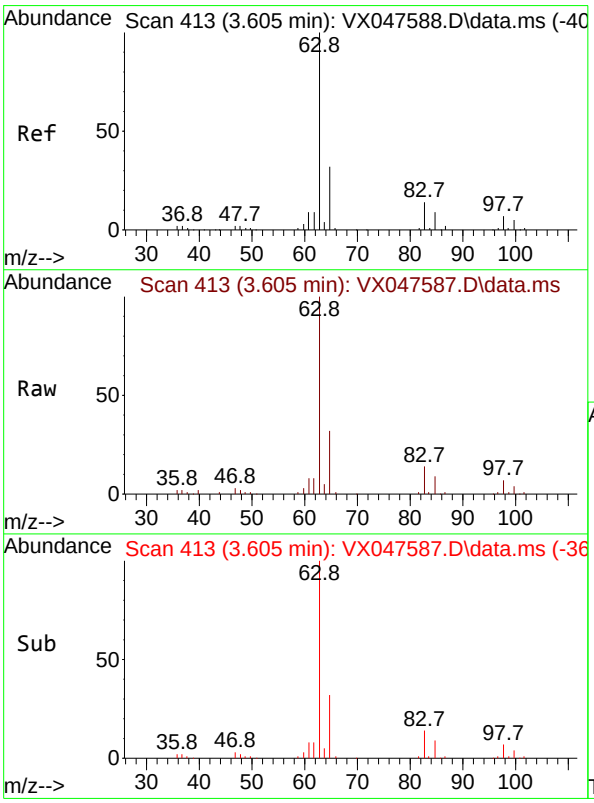
#23
Vinyl Acetate
Concen: 106.218 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 765675

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.8	11.8

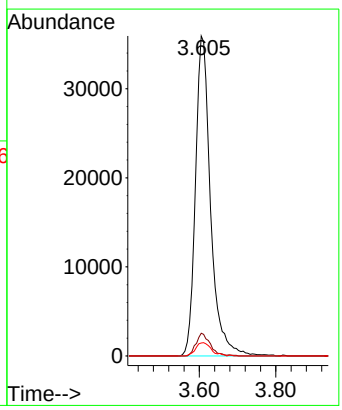


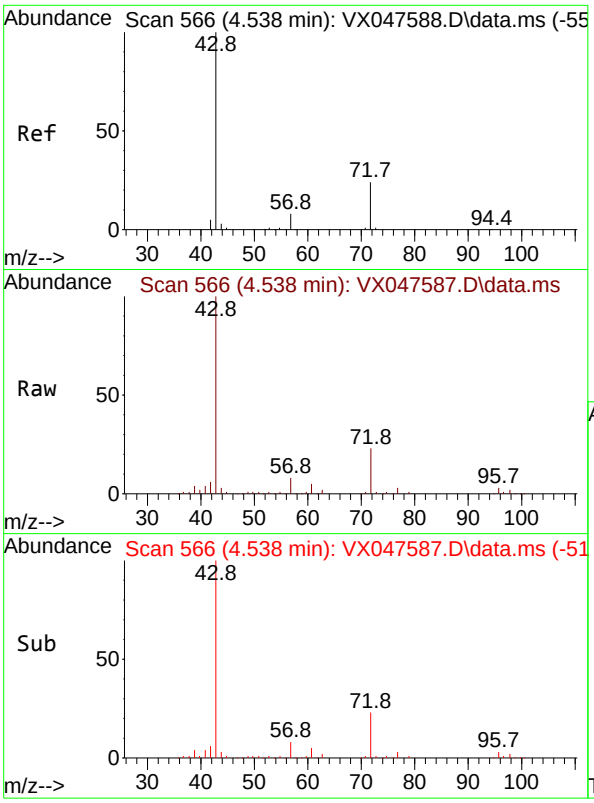


#24
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 98509

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.1	2.3	6.9



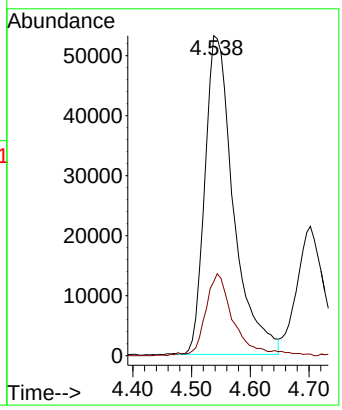


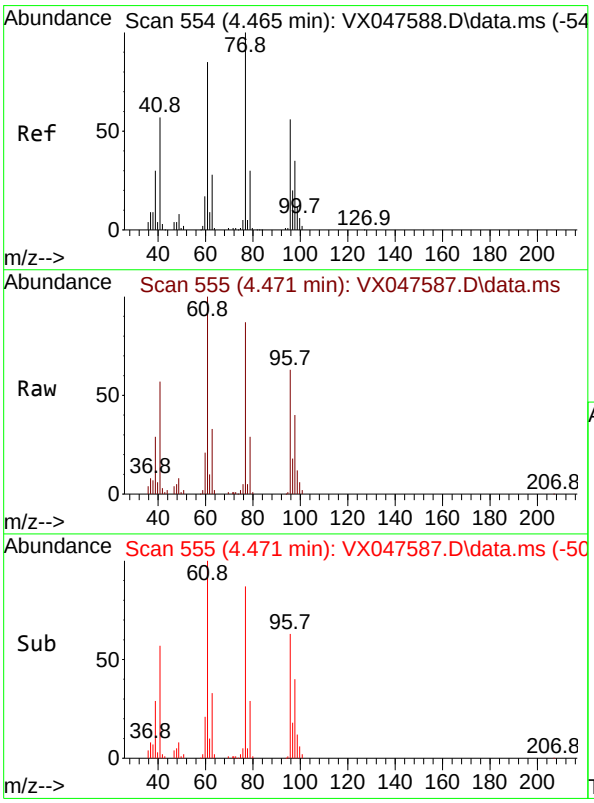
#25
2-Butanone
Concen: 109.679 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 179487

Ion	Ratio	Lower	Upper
43	100		
72	22.3	20.1	30.1

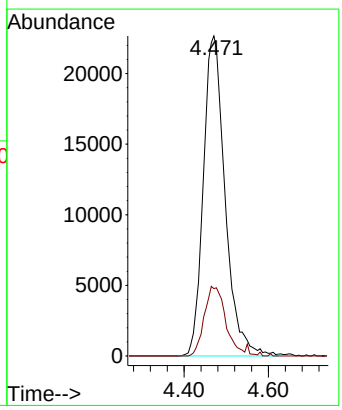


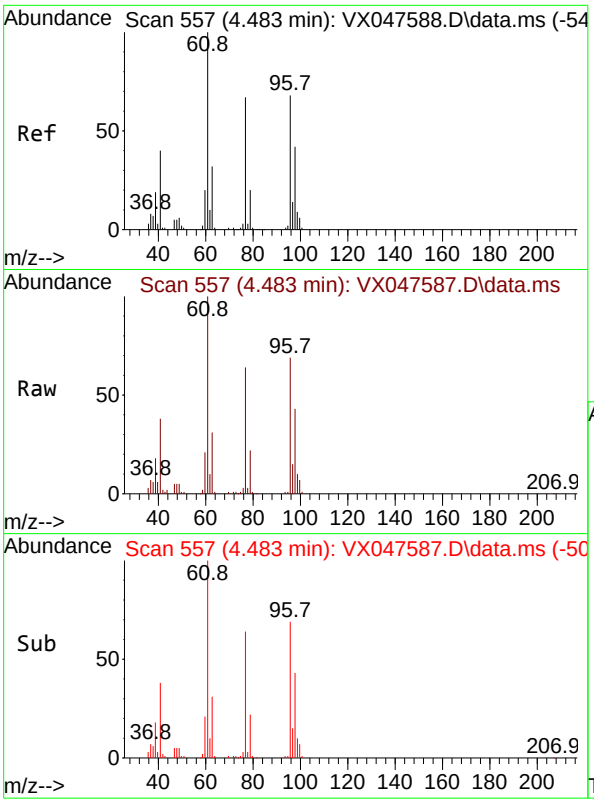


#26
2,2-Dichloropropane
Concen: 20.459 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 77 Resp: 81413

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.9	32.7



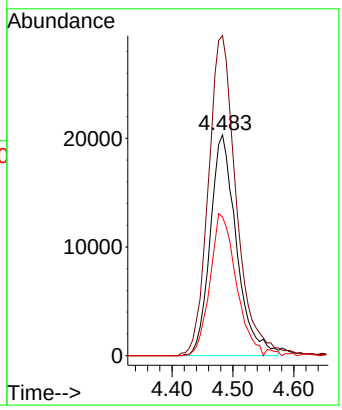


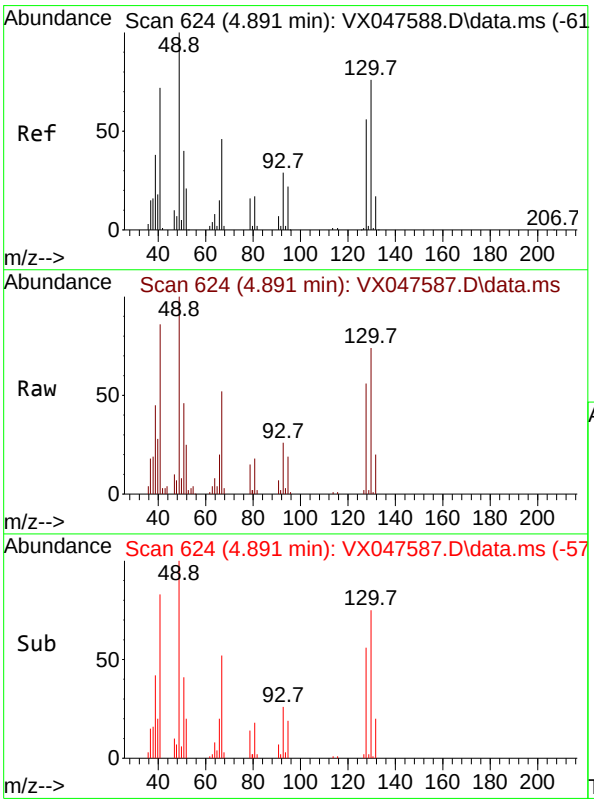
#27
cis-1,2-Dichloroethene
Concen: 20.497 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 60865

Ion	Ratio	Lower	Upper
96	100		
61	154.8	0.0	303.2
98	63.7	0.0	127.8

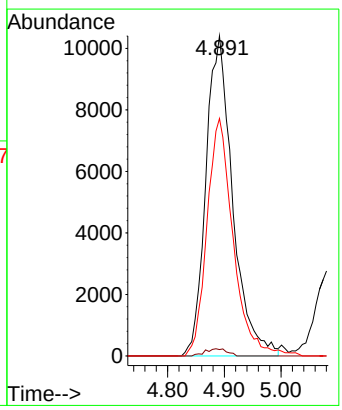


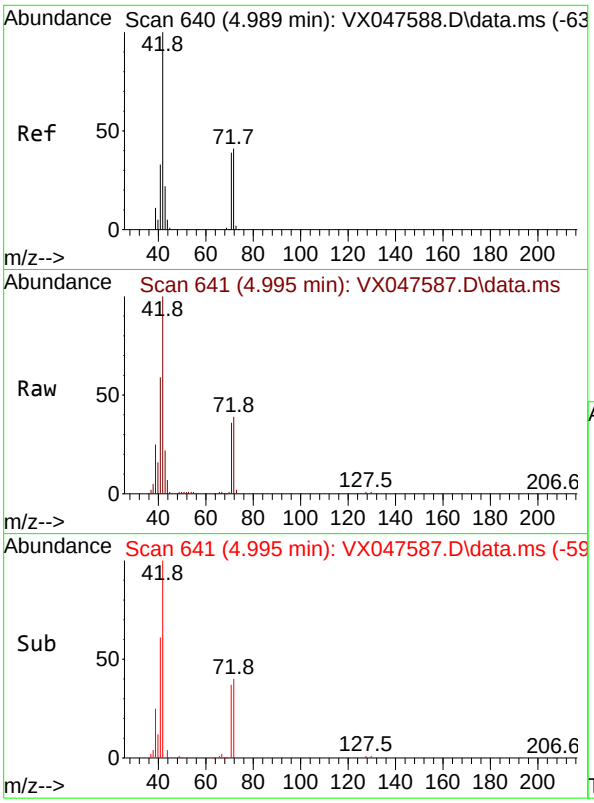


#28
Bromochloromethane
Concen: 16.309 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 49 Resp: 34085

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.7	57.8	86.8



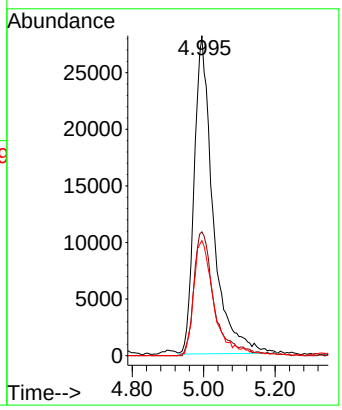


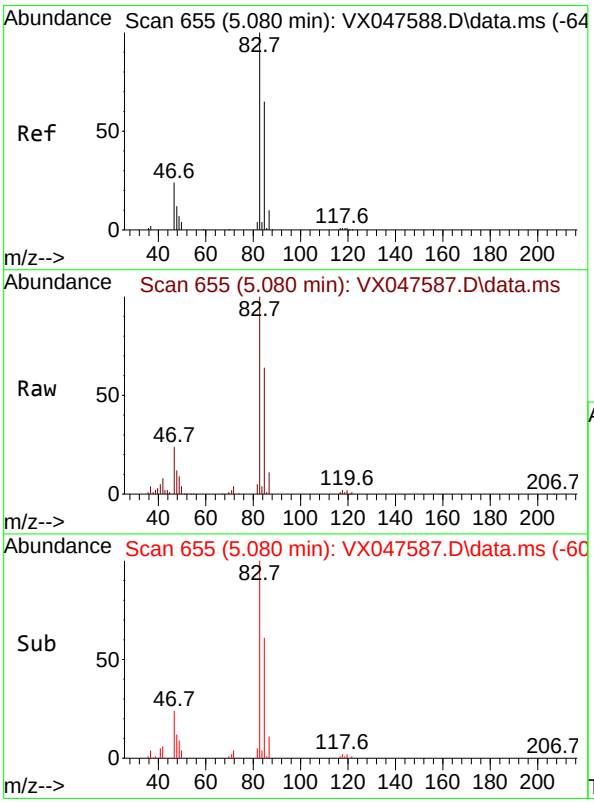
#29
Tetrahydrofuran
Concen: 104.560 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 102935

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	37.8	31.9	47.9

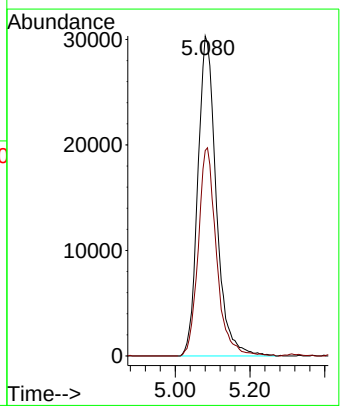


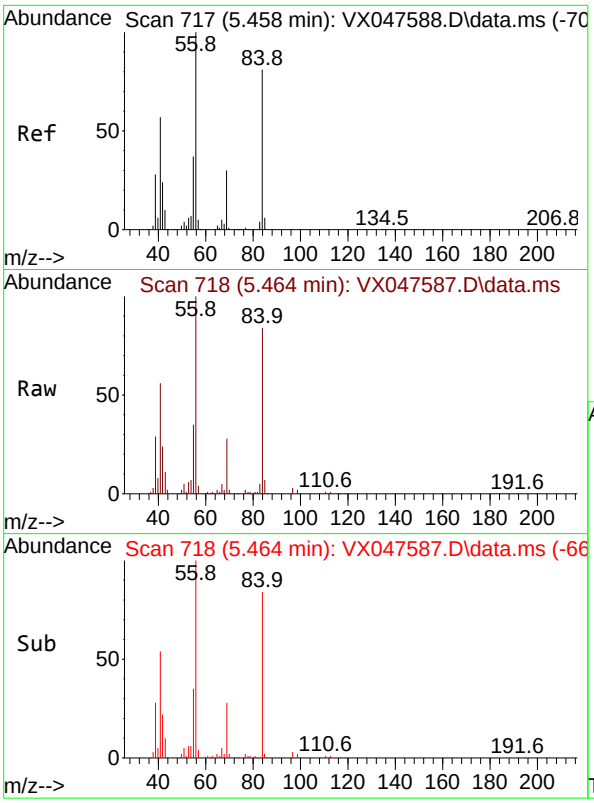


#30
Chloroform
Concen: 21.413 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 103586

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6



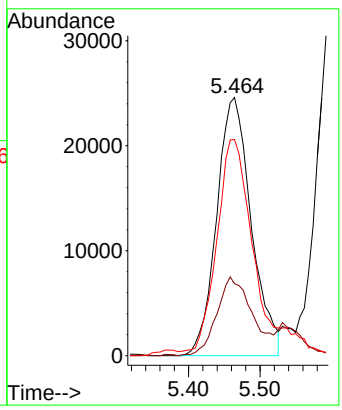


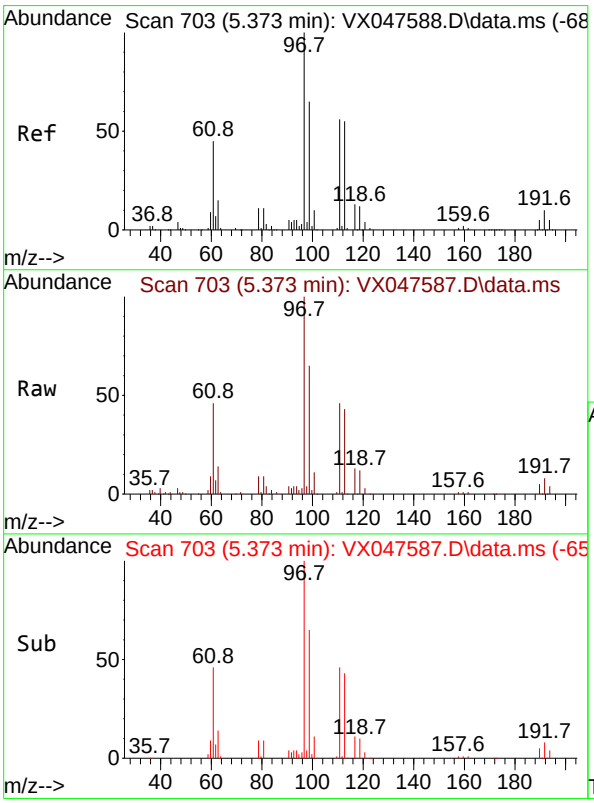
#31
Cyclohexane
Concen: 20.759 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 82770

Ion	Ratio	Lower	Upper
56	100		
69	27.9	23.8	35.8
84	82.2	64.6	97.0

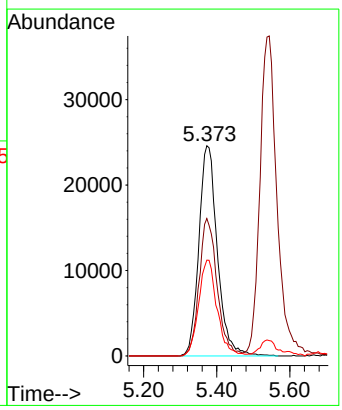


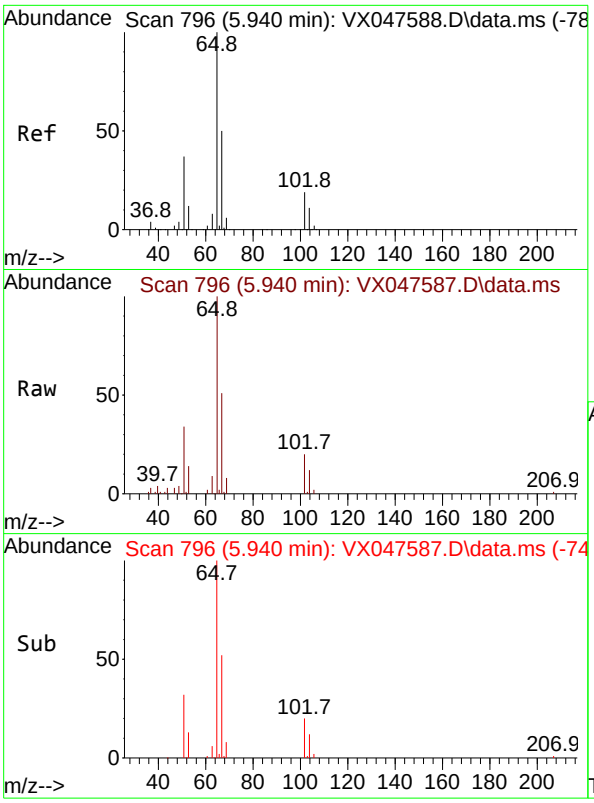


#32
1,1,1-Trichloroethane
Concen: 21.081 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 86500

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	45.5	35.8	53.8



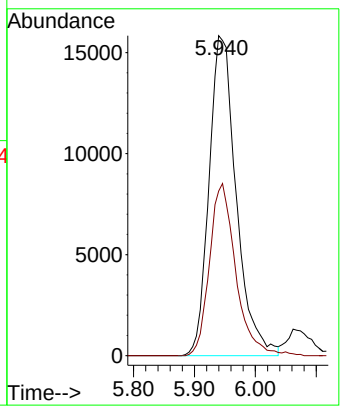


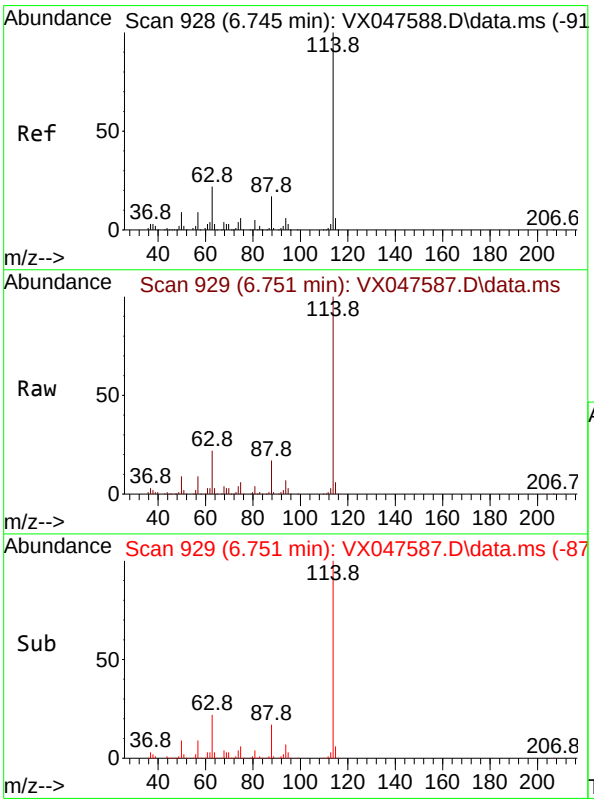
#33
1,2-Dichloroethane-d4
Concen: 16.264 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 49073

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0

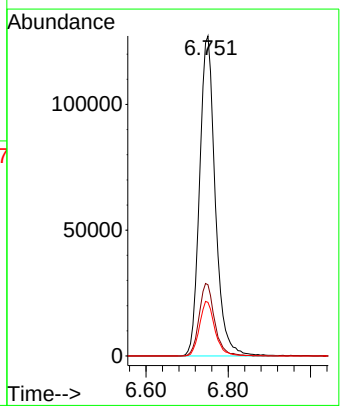


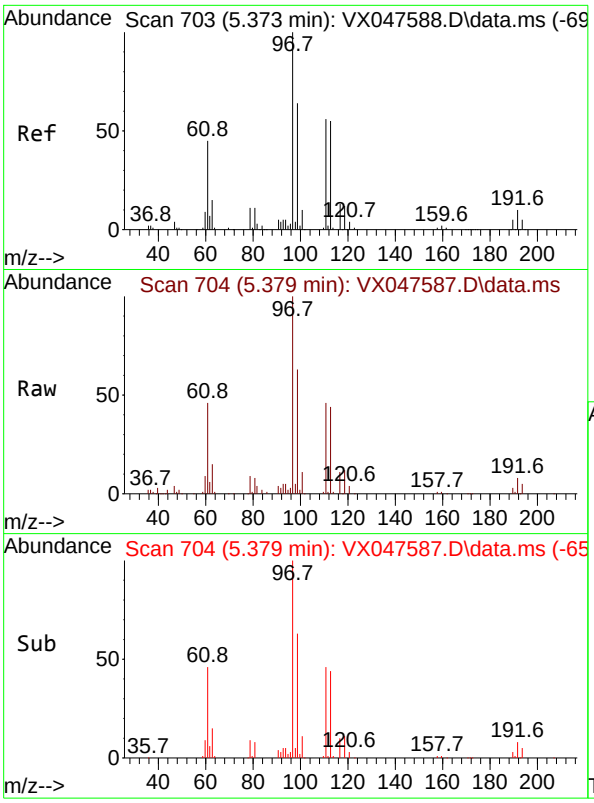


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:114 Resp: 336287

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2



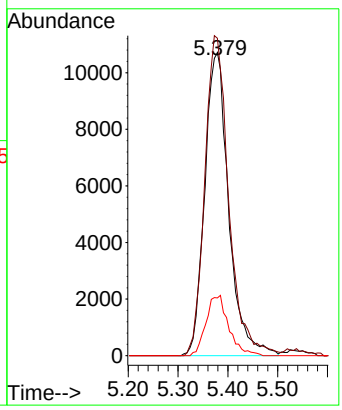


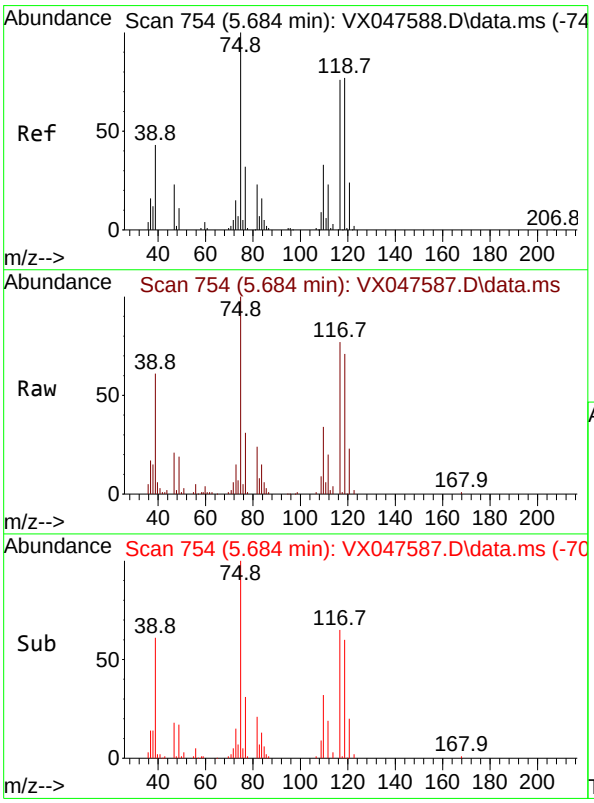
#35
Dibromofluoromethane
Concen: 15.868 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 35788

Ion	Ratio	Lower	Upper
113	100		
111	105.7	80.9	121.3
192	18.8	14.2	21.4

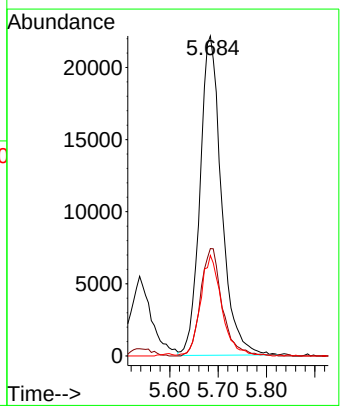


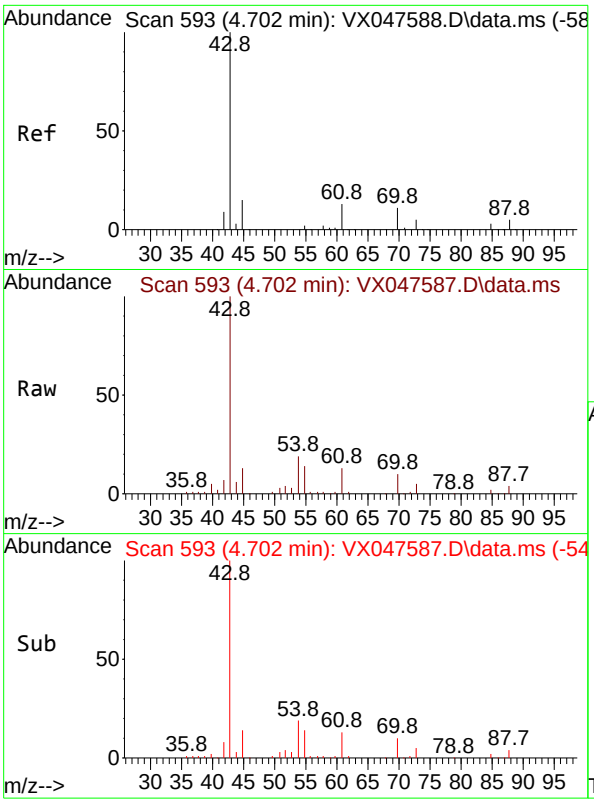


#36
1,1-Dichloropropene
Concen: 20.754 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 68395

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.2	24.3	36.5



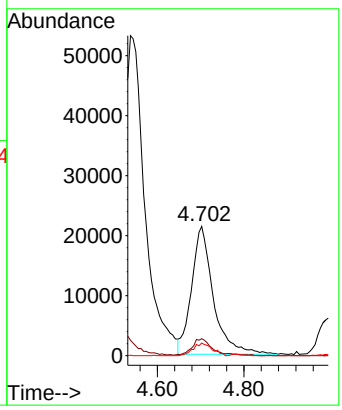


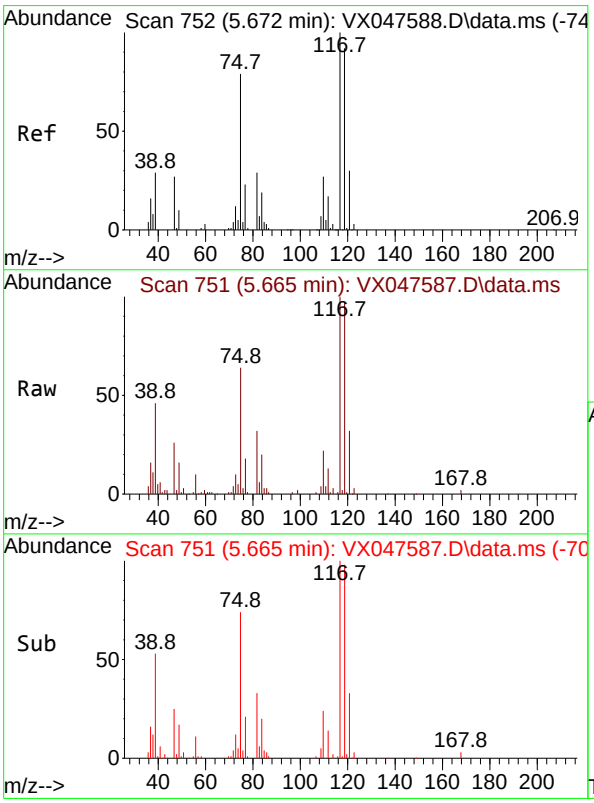
#37
Ethyl Acetate
Concen: 21.113 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 74499

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	8.5	7.9	11.9

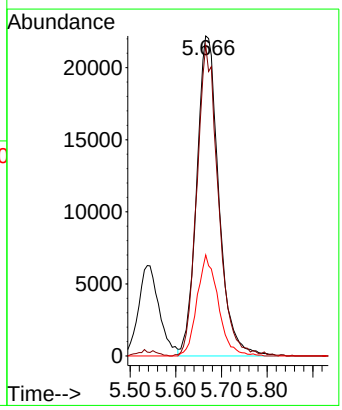


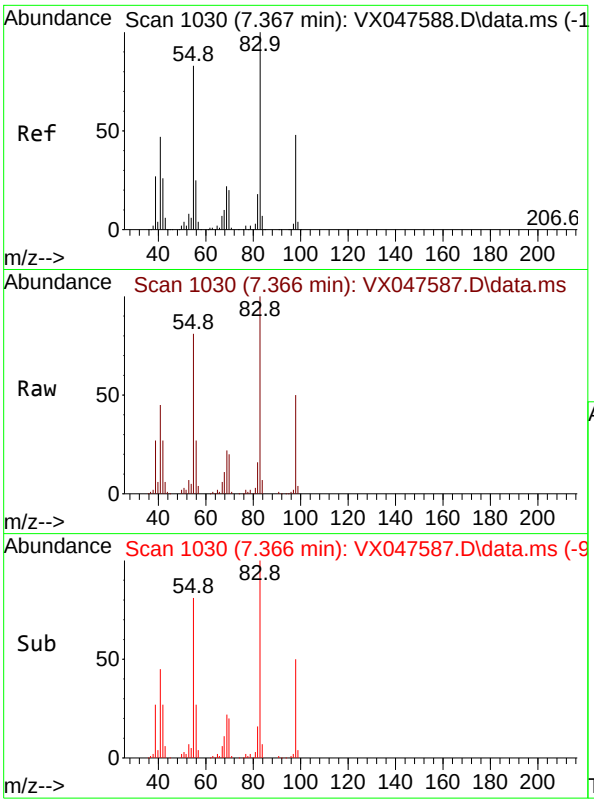


#38
Carbon Tetrachloride
Concen: 20.844 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 74636

Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.4	110.2
121	31.6	23.8	35.6



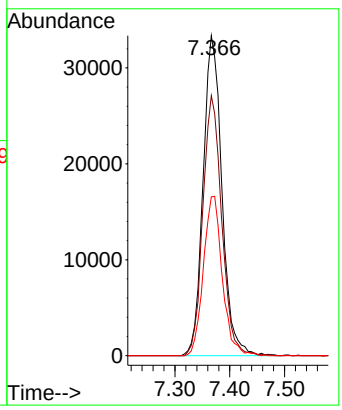


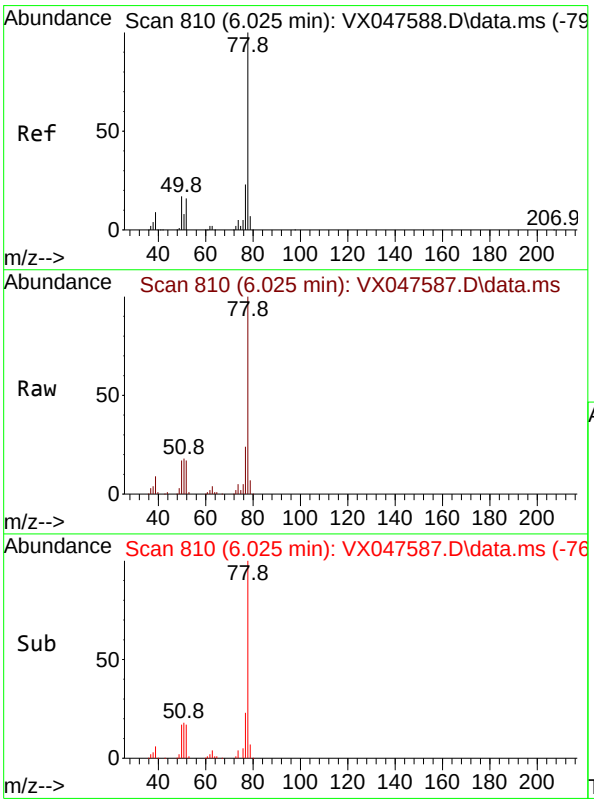
#39
Methylcyclohexane
Concen: 21.251 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 79499

Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.4	99.6
98	49.6	38.1	57.1

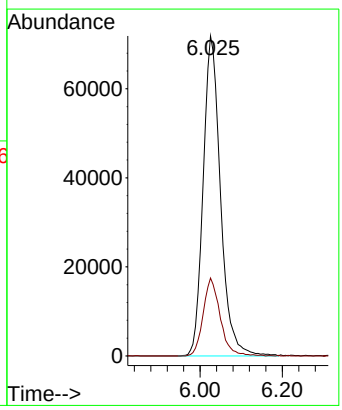


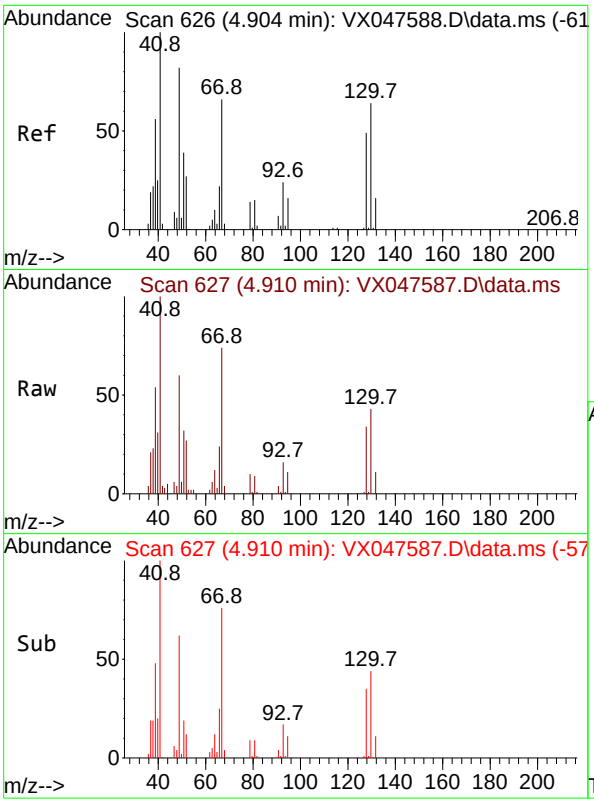


#40
Benzene
Concen: 21.051 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 78 Resp: 210711

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2



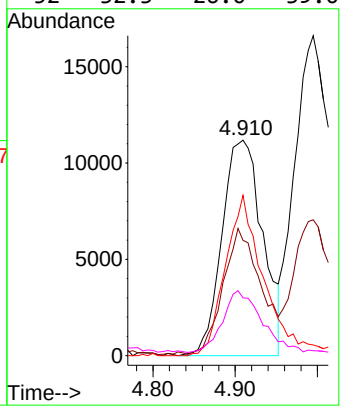


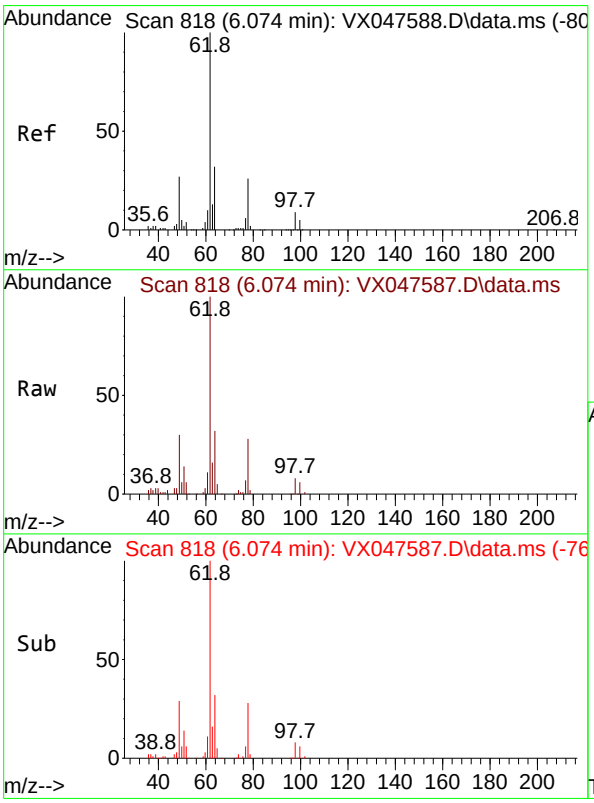
#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 38525

Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.3	64.9
67	72.5	58.6	87.8
52	32.3	26.0	39.0

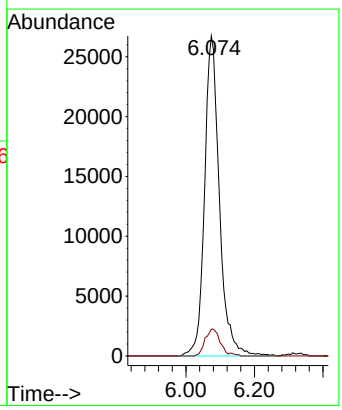


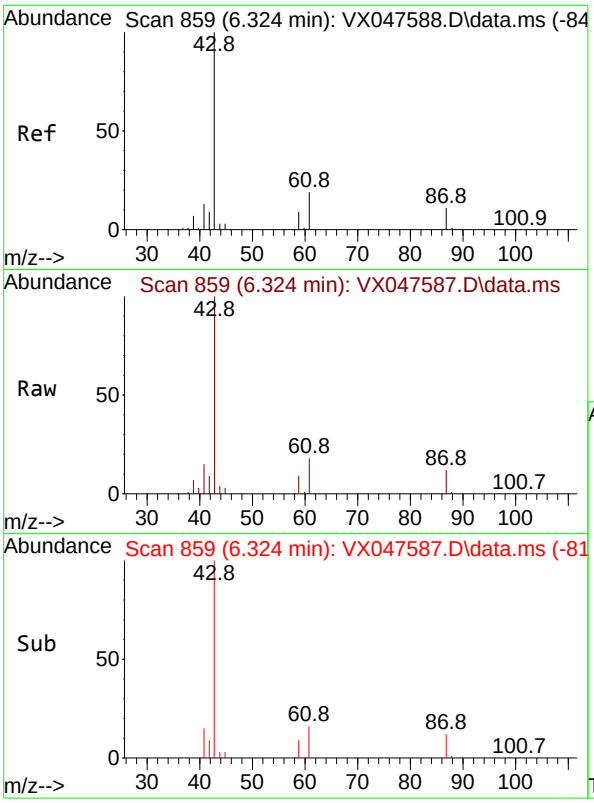


#42
1,2-Dichloroethane
Concen: 21.175 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 80646

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



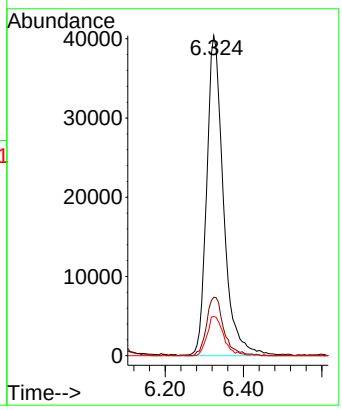


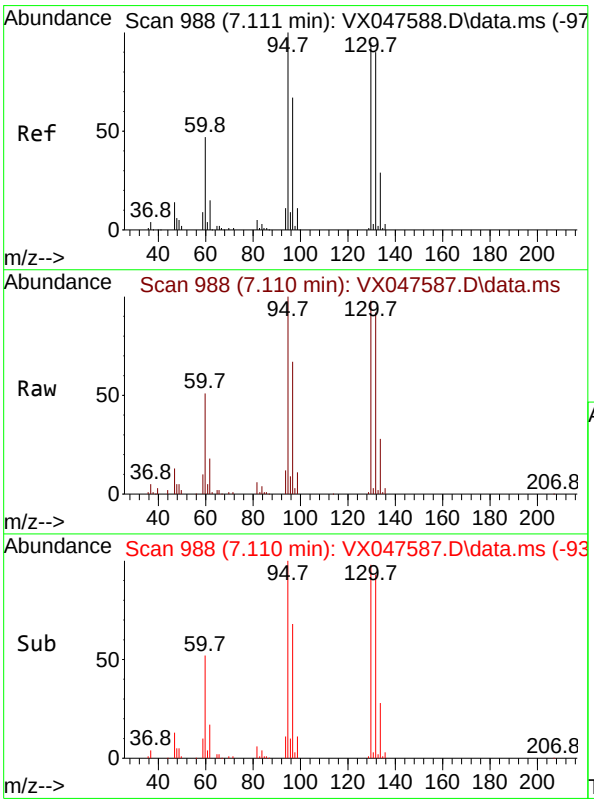
#43
Isopropyl Acetate
Concen: 20.670 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 119623

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.2	22.8
87	12.1	9.6	14.4

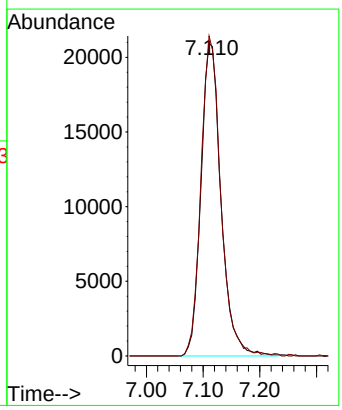


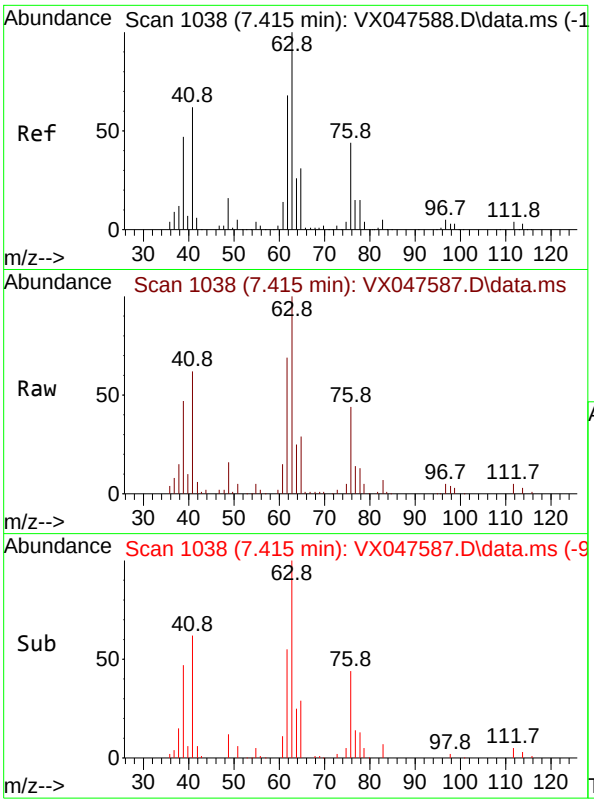


#44
Trichloroethene
Concen: 21.228 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:130 Resp: 51369

Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	210.8



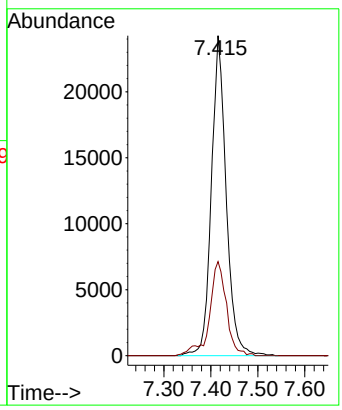


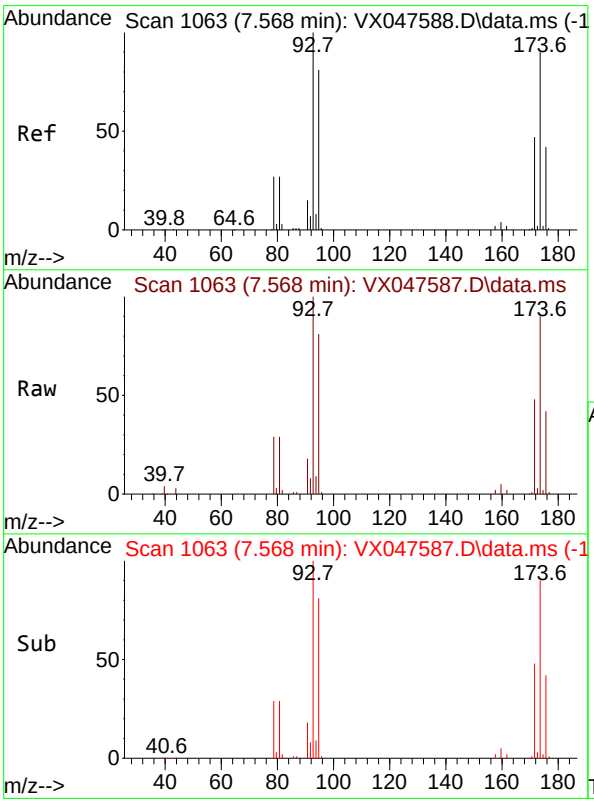
#45
1,2-Dichloropropane
Concen: 20.697 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 53046

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1

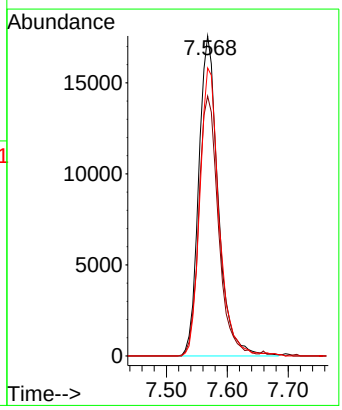


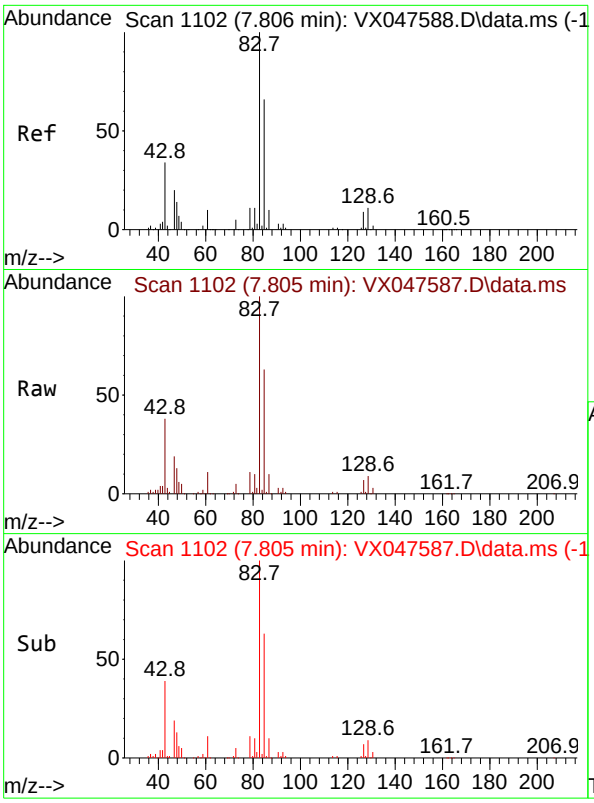


#46
Dibromomethane
Concen: 20.862 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 93 Resp: 38910

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.0	97.6
174	89.2	71.6	107.4



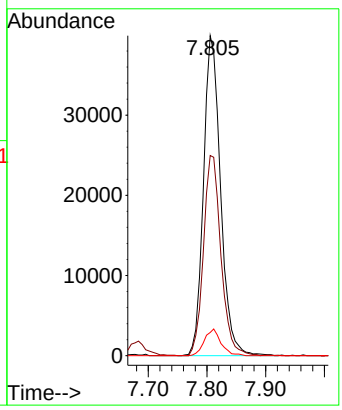


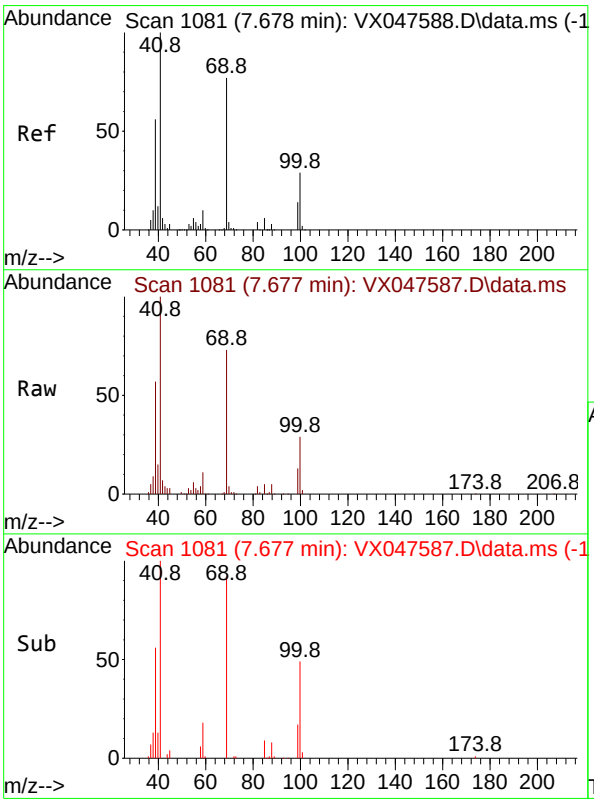
#47
Bromodichloromethane
Concen: 21.002 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 80831

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.2	6.9	10.3

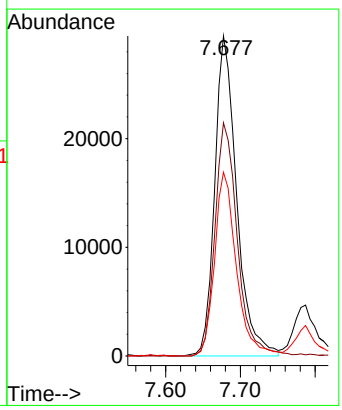


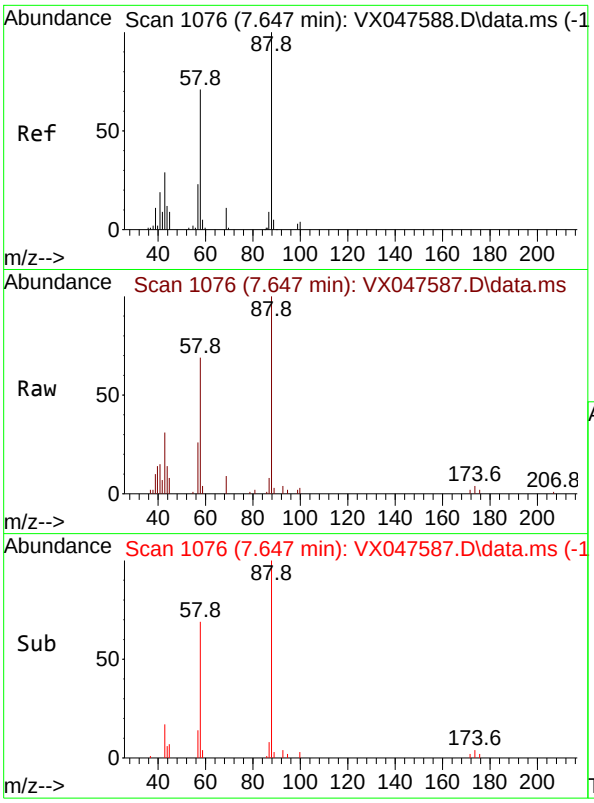


#48
Methyl methacrylate
Concen: 20.877 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 60182

Ion	Ratio	Lower	Upper
41	100		
69	74.2	61.4	92.2
39	57.2	45.8	68.6



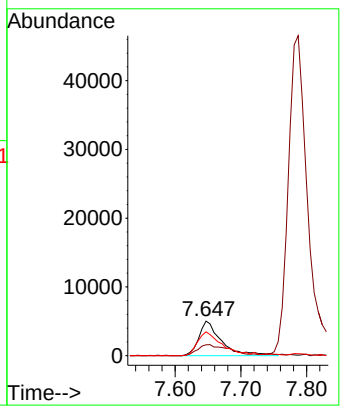


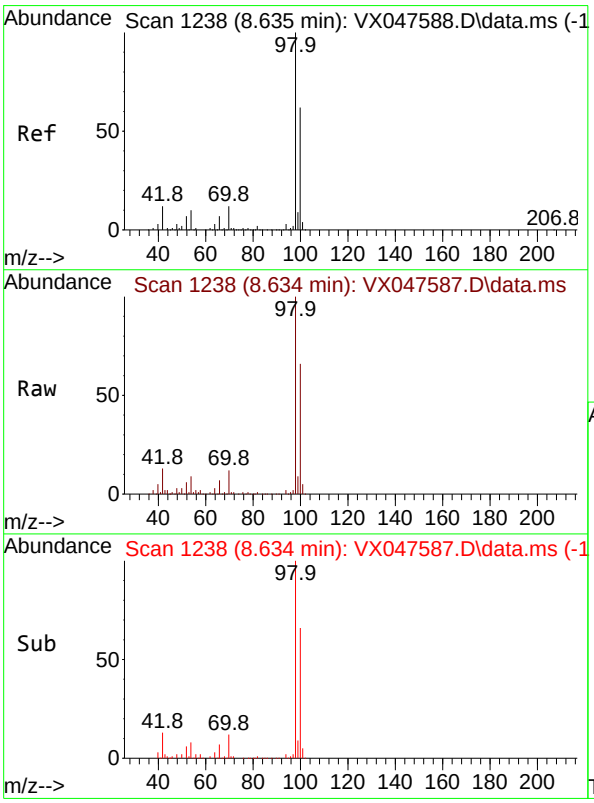
#49
1,4-Dioxane
Concen: 413.530 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 12047

Ion	Ratio	Lower	Upper
88	100		
43	44.7	30.2	45.2
58	75.8	59.5	89.3

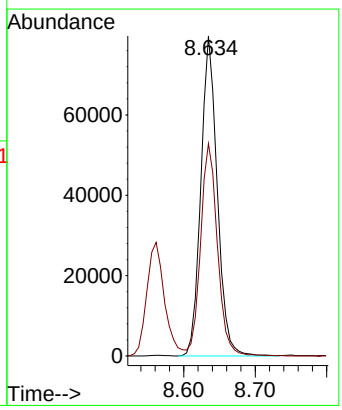


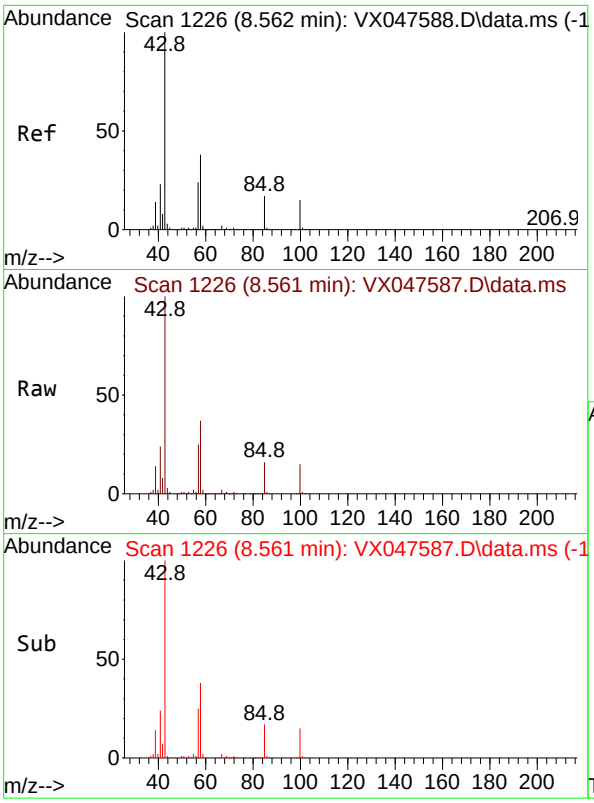


#50
Toluene-d8
Concen: 16.258 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 98 Resp: 126875

Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4



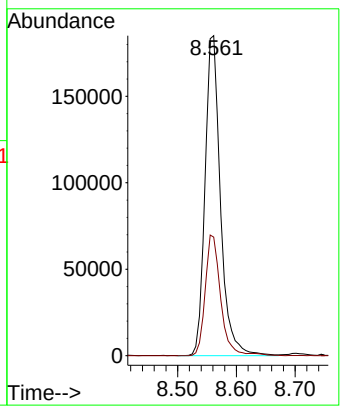


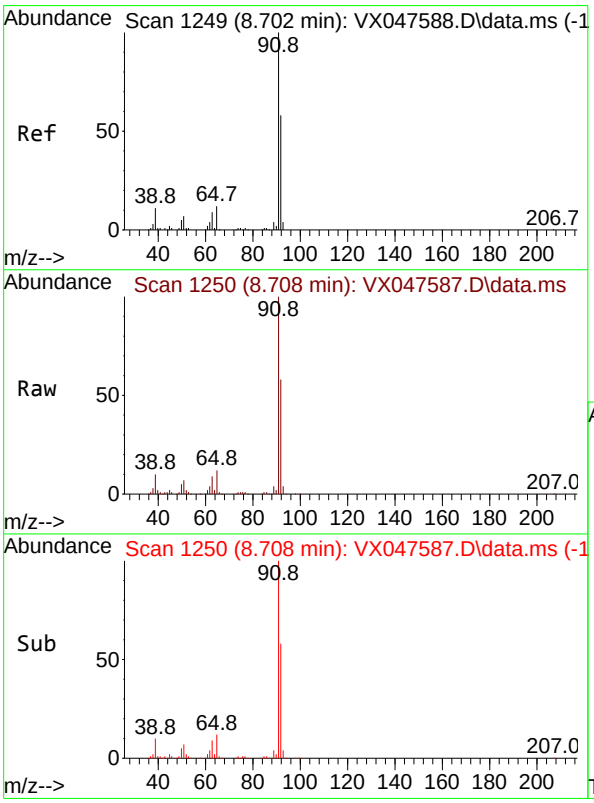
#51
4-Methyl-2-Pentanone
Concen: 105.456 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 338370

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5

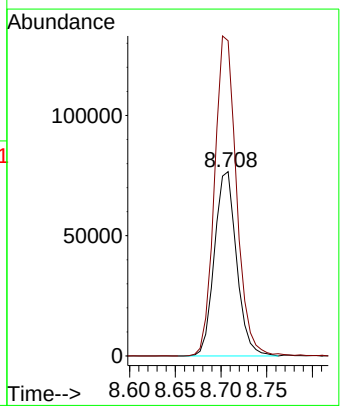


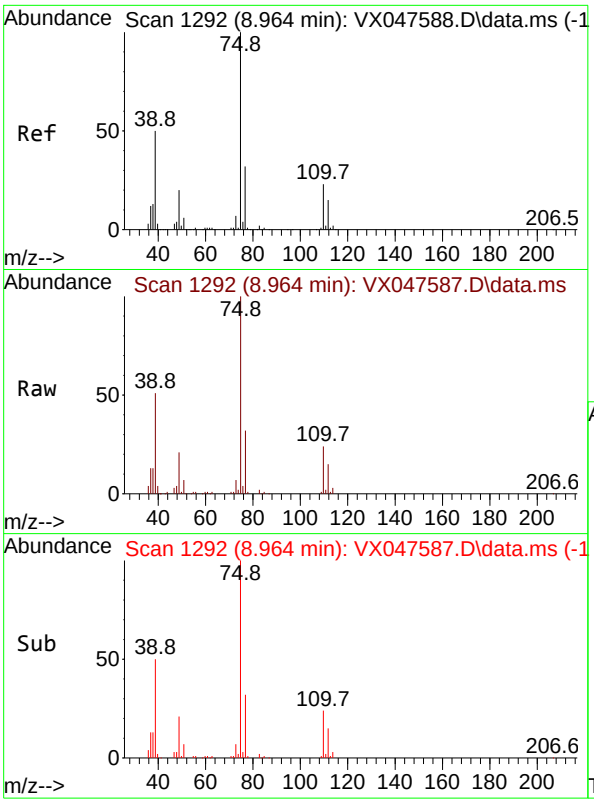


#52
Toluene
Concen: 20.950 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 92 Resp: 129193

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.1	205.7



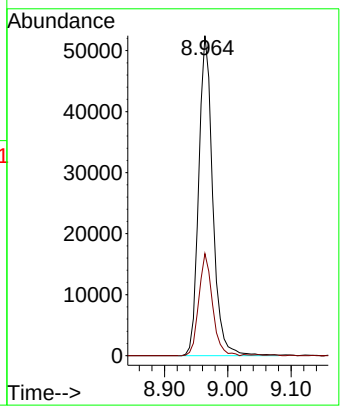


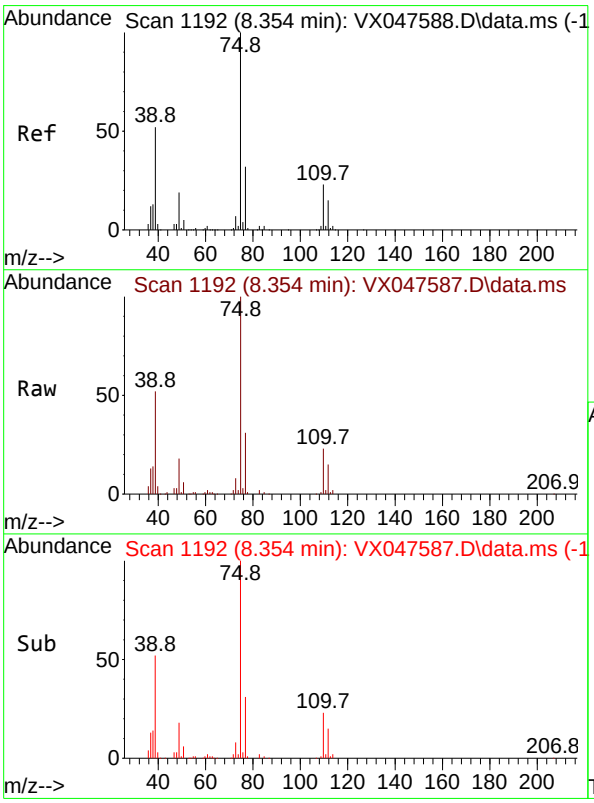
#53
t-1,3-Dichloropropene
Concen: 20.625 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 80972

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.2

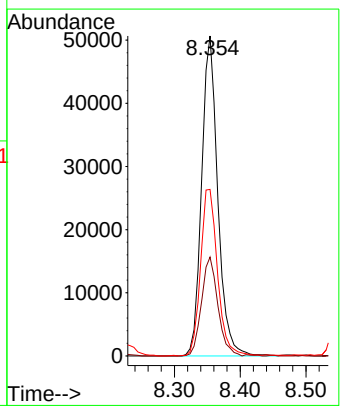


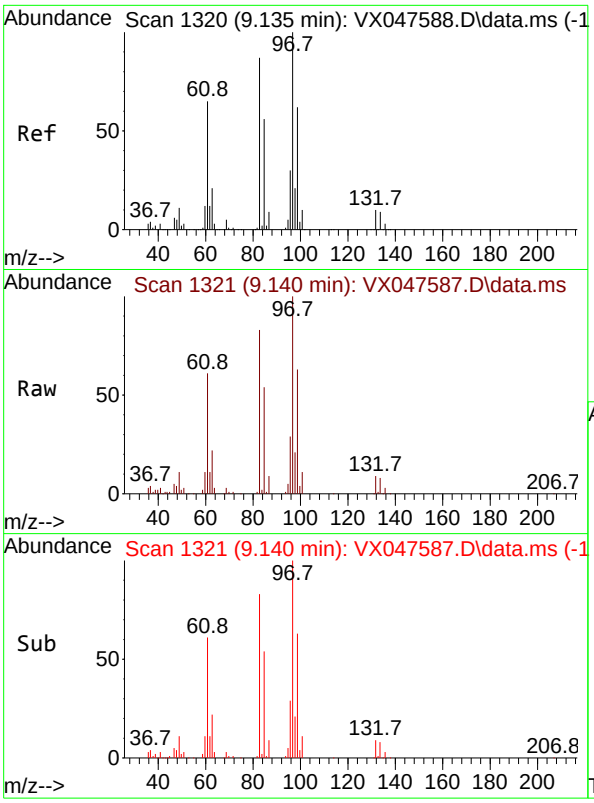


#54
cis-1,3-Dichloropropene
Concen: 20.650 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 86648

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	52.0	41.4	62.2



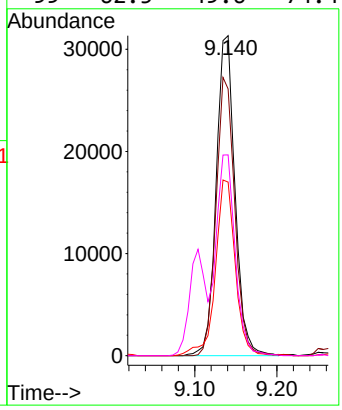


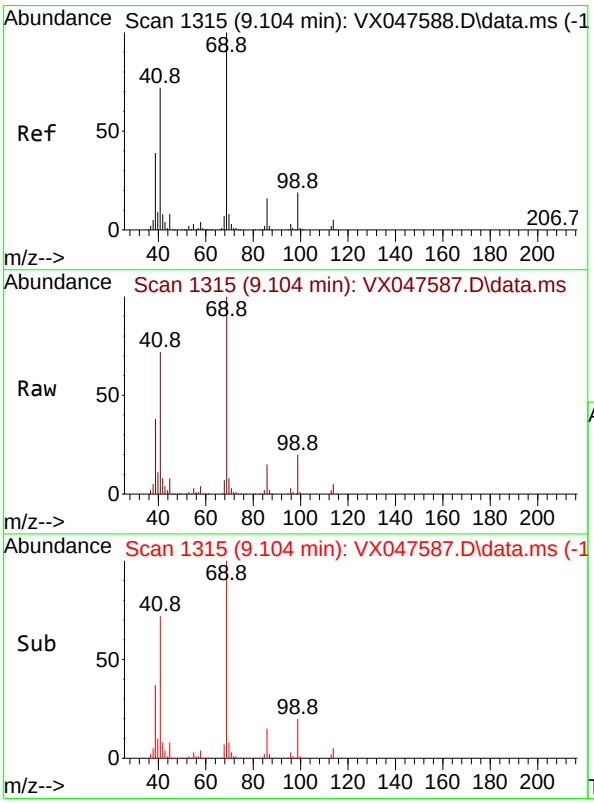
#55
1,1,2-Trichloroethane
Concen: 20.967 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 49857

Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.6	104.4
85	55.2	45.0	67.6
99	62.5	49.6	74.4

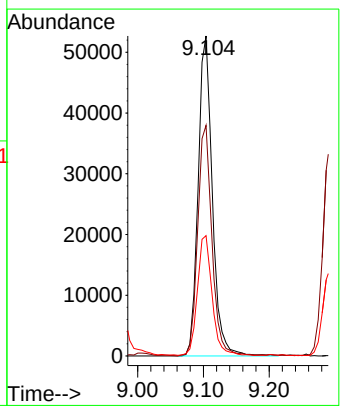


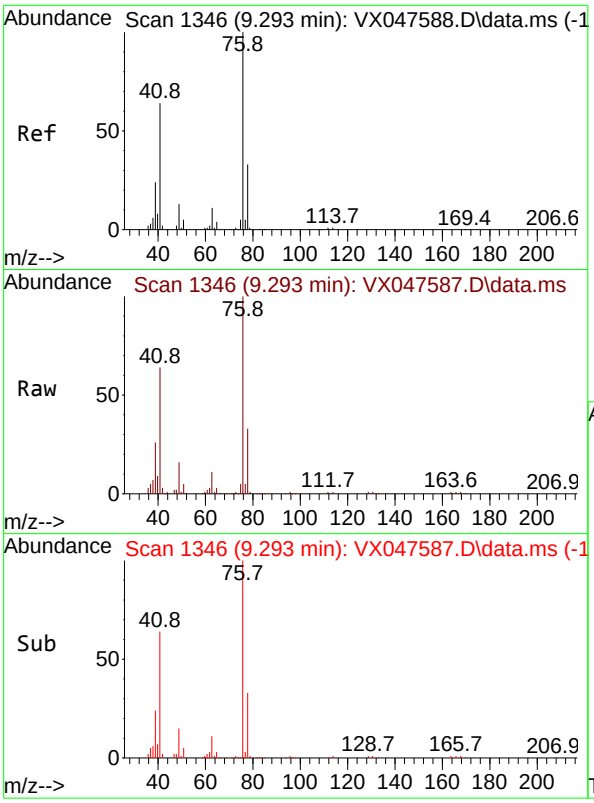


#56
Ethyl methacrylate
Concen: 21.158 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 69 Resp: 79011

Ion	Ratio	Lower	Upper
69	100		
41	72.6	58.6	87.8
39	38.6	31.5	47.3



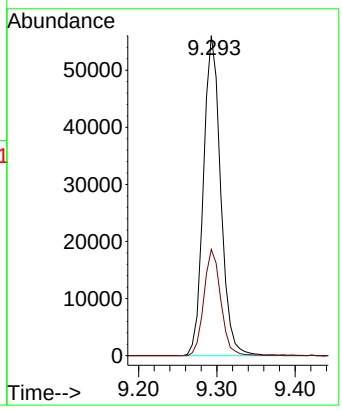


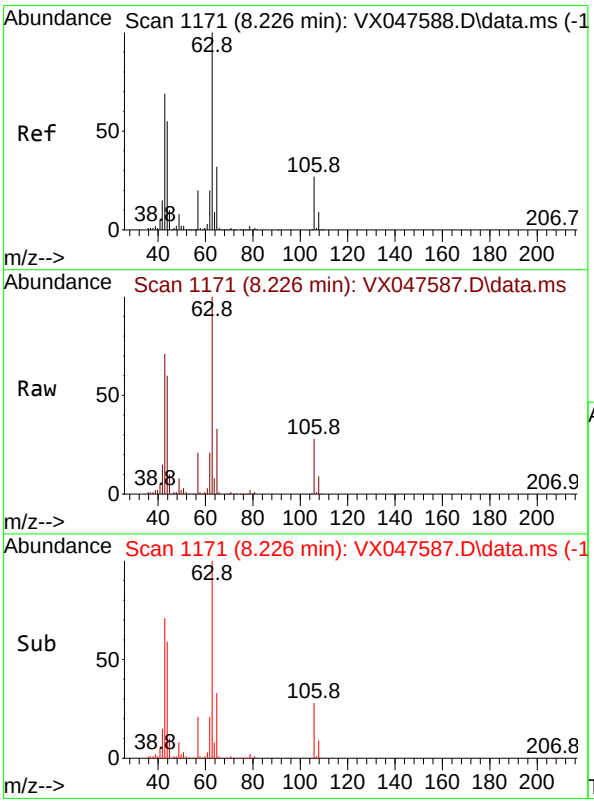
#57
1,3-Dichloropropane
Concen: 20.934 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 85511

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.4

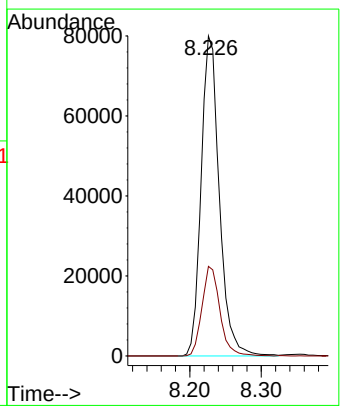


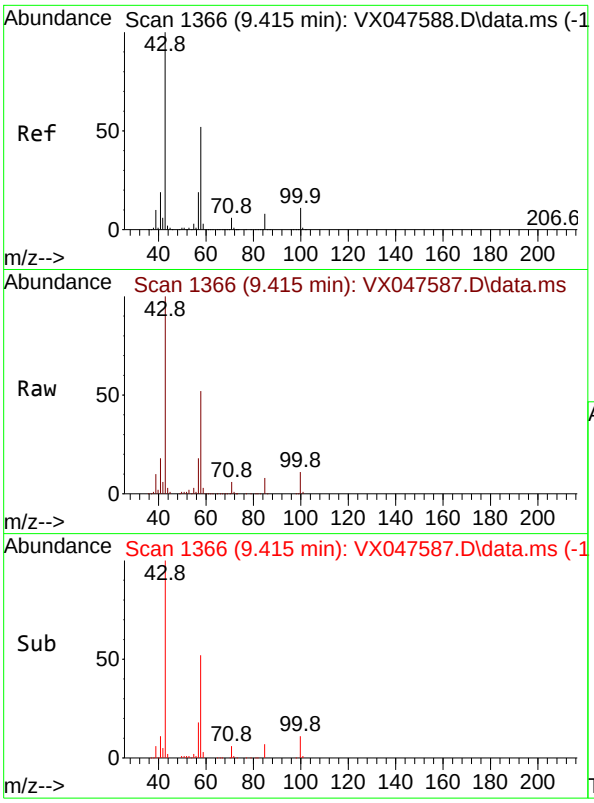


#58
2-Chloroethyl Vinyl ether
Concen: 86.617 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 141395

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



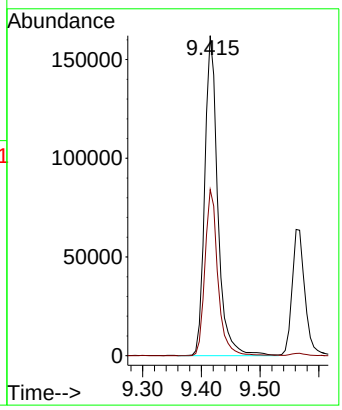


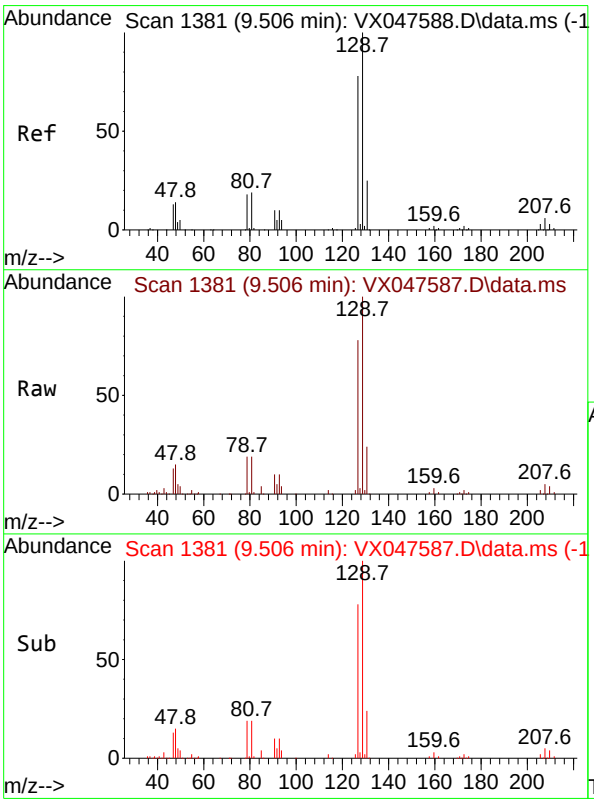
#59
2-Hexanone
Concen: 108.488 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 250007

Ion	Ratio	Lower	Upper
43	100		
58	51.4	26.1	78.2

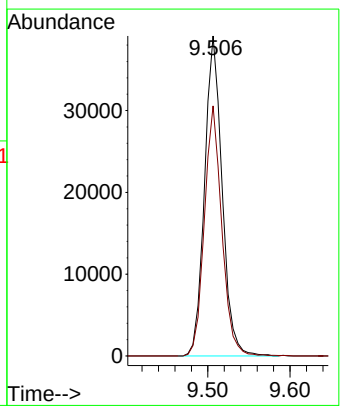


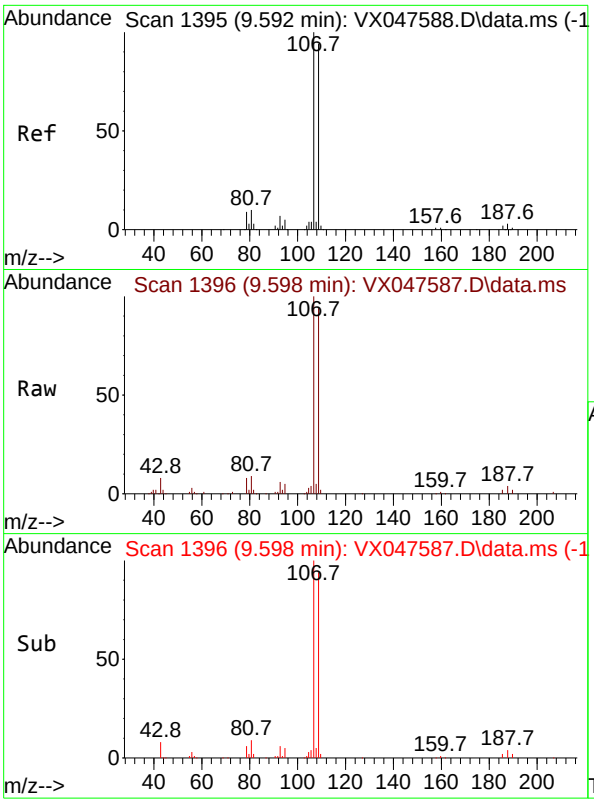


#60
Dibromochloromethane
Concen: 21.167 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:129 Resp: 57994

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2



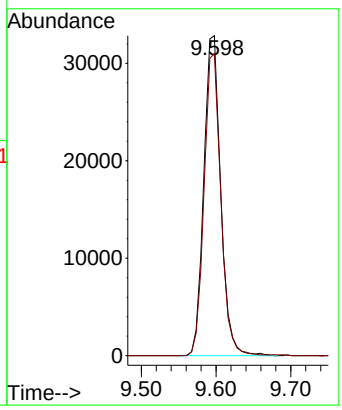


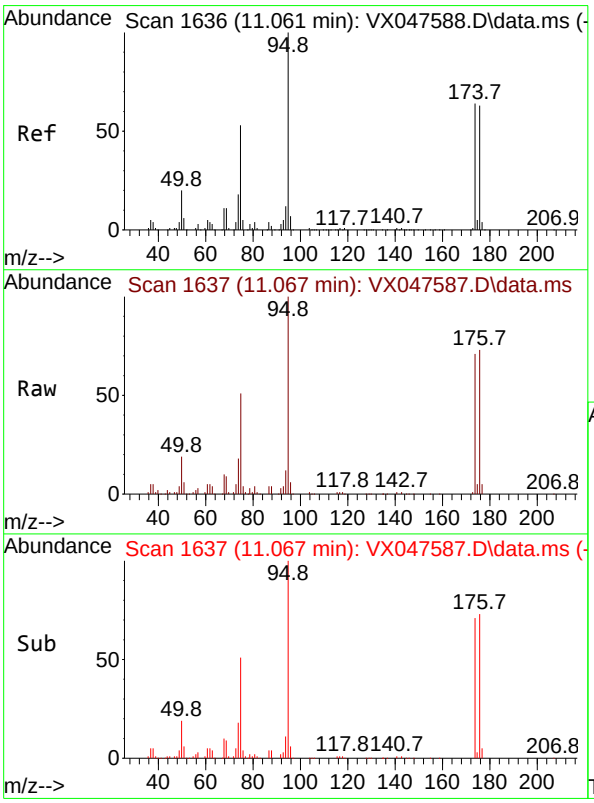
#61
1,2-Dibromoethane
Concen: 21.310 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 51614

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.3	112.9

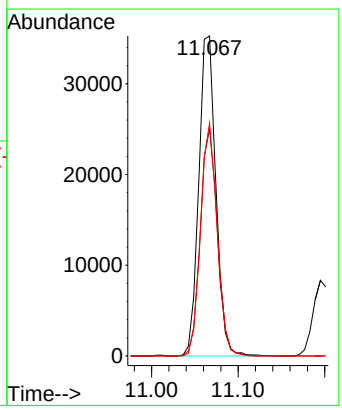


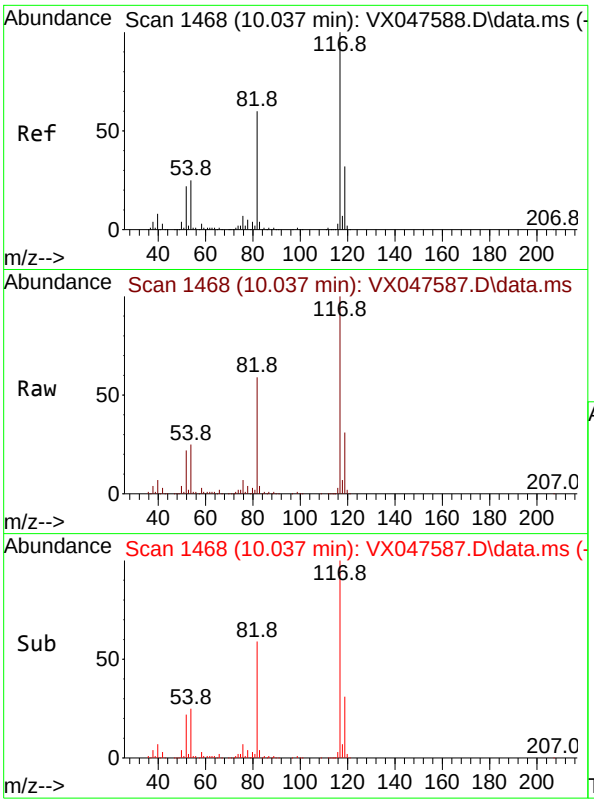


#62
4-Bromofluorobenzene
Concen: 16.360 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 95 Resp: 48454

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	141.6
176	70.3	0.0	138.4



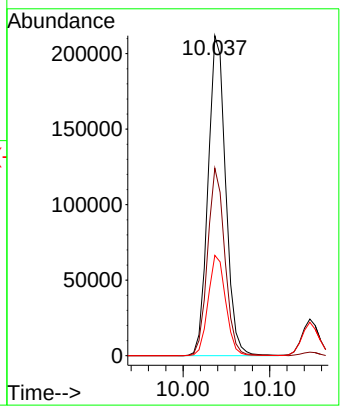


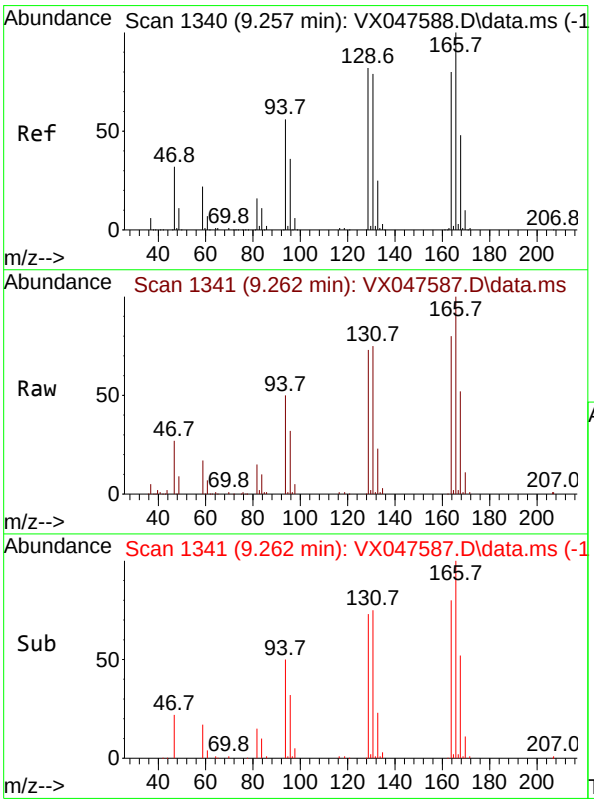
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 298629

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.8	71.6
119	31.3	25.2	37.8

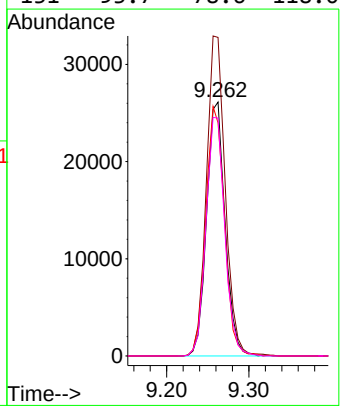


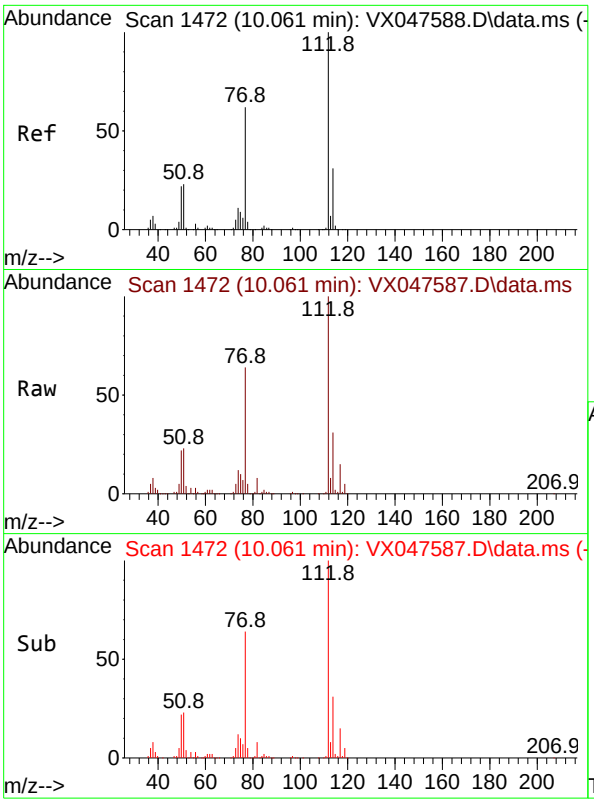


#64
Tetrachloroethene
Concen: 20.979 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:164 Resp: 40840

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.2	150.2
129	91.8	81.8	122.6
131	93.7	78.6	118.0



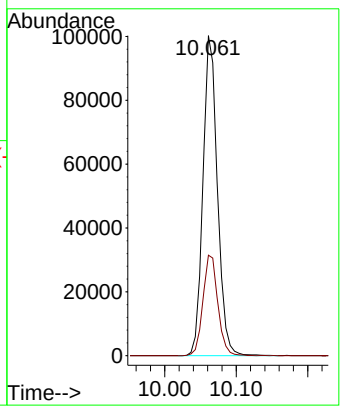


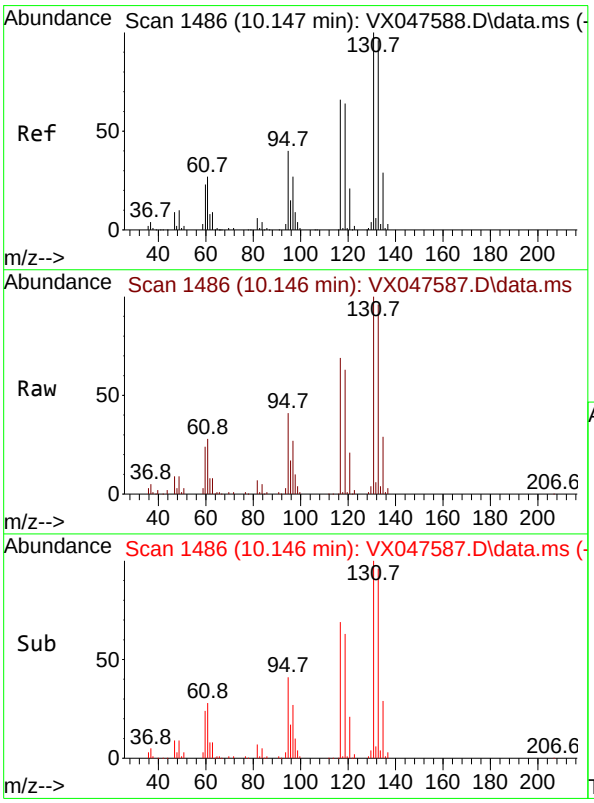
#65
Chlorobenzene
Concen: 20.731 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 140642

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

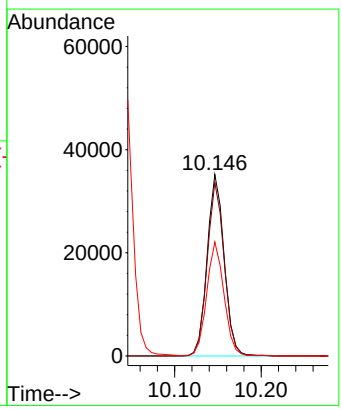


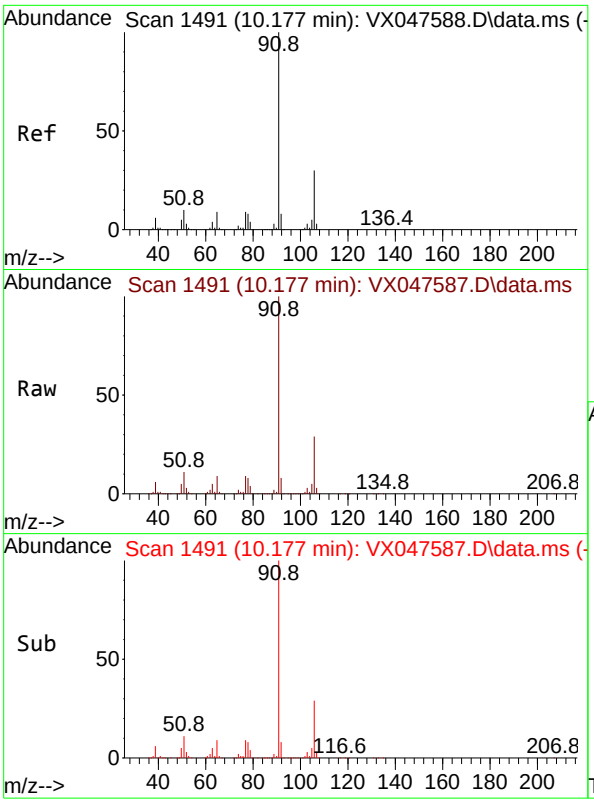


#66
1,1,1,2-Tetrachloroethane
Concen: 20.513 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:131 Resp: 48022

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	142.0
119	63.9	32.0	96.0



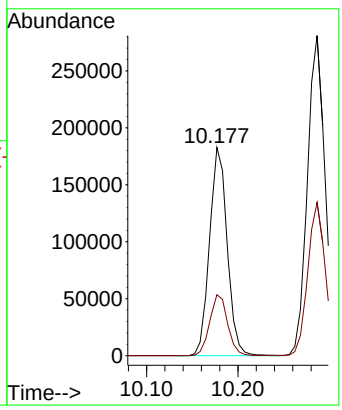


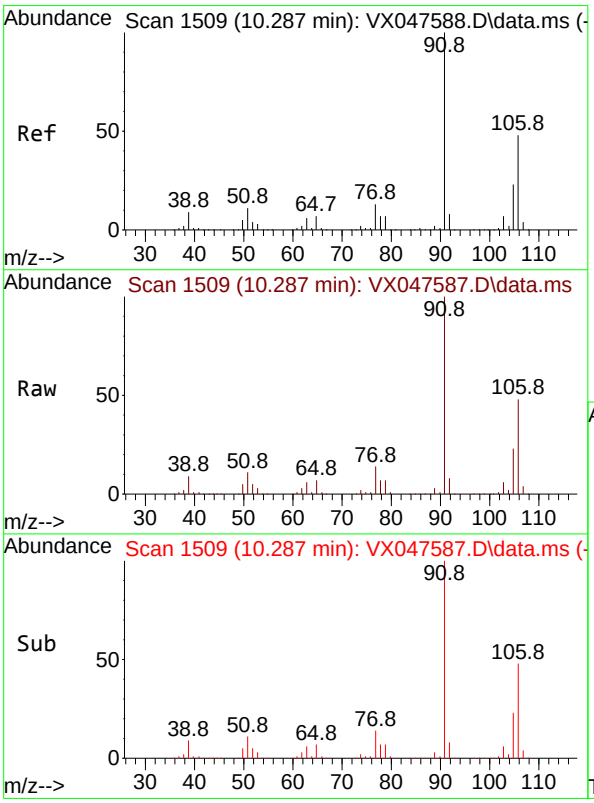
#67
Ethyl Benzene
Concen: 20.907 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 244737

Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.3	36.5

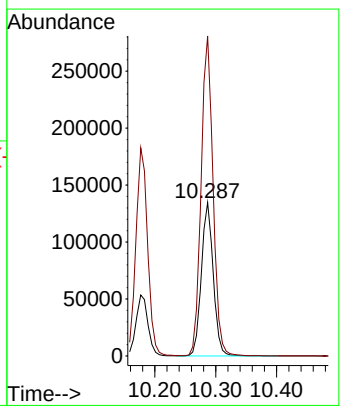


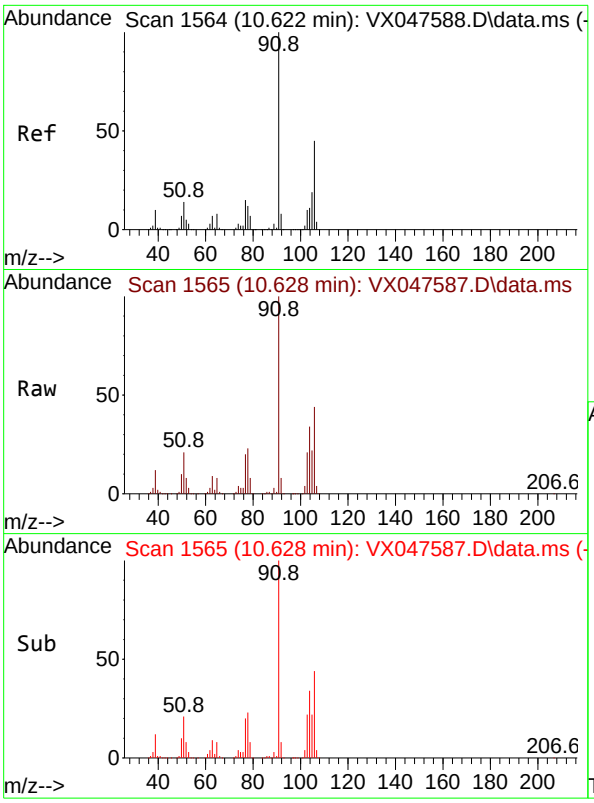


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 182778

Ion	Ratio	Lower	Upper
106	100		
91	210.2	167.8	251.8



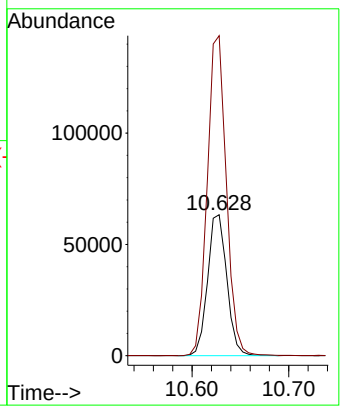


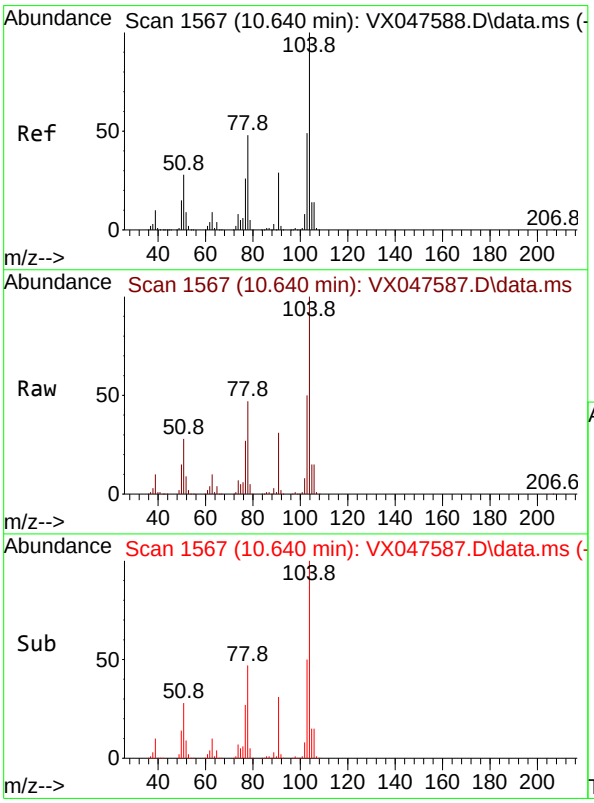
#69
o-Xylene
Concen: 20.799 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 87651

Ion	Ratio	Lower	Upper
106	100		
91	225.3	111.1	333.4

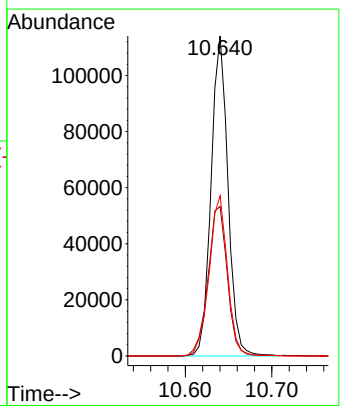


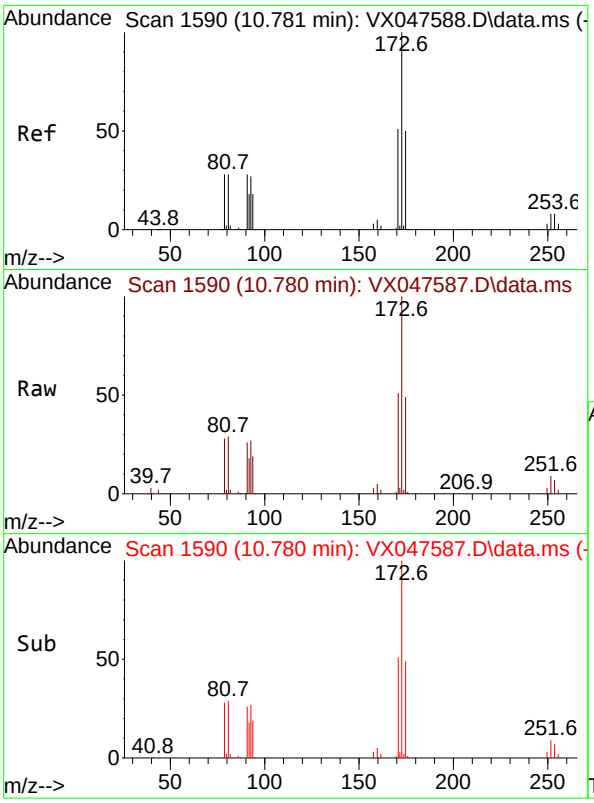


#70
Styrene
Concen: 20.866 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:104 Resp: 154077

Ion	Ratio	Lower	Upper
104	100		
78	53.6	43.1	64.7
103	54.4	43.1	64.7



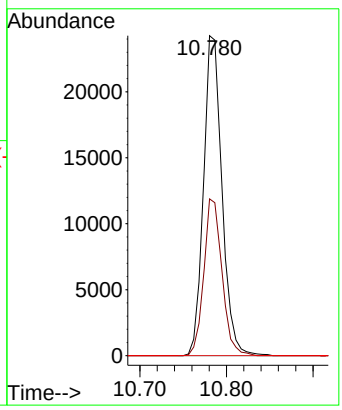


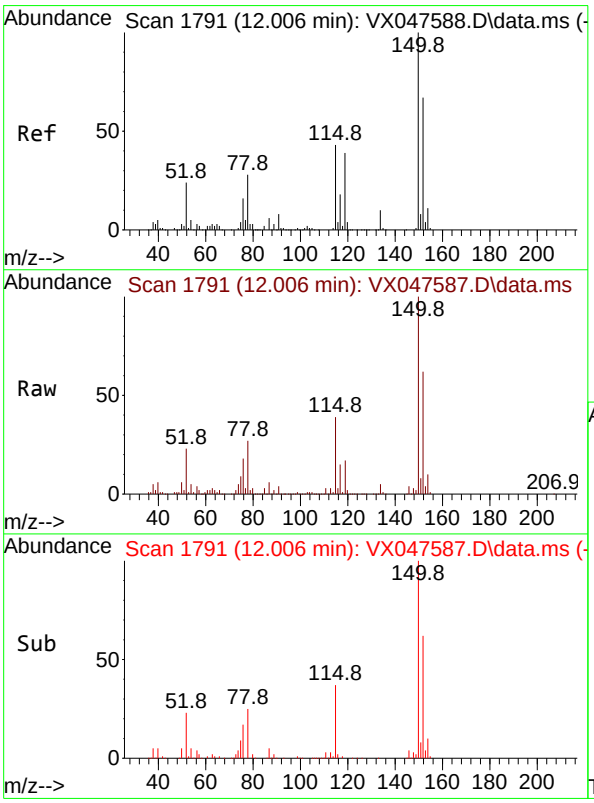
#71
Bromoform
Concen: 20.550 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 35922

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.9	74.6
254	0.0	0.1	0.1#

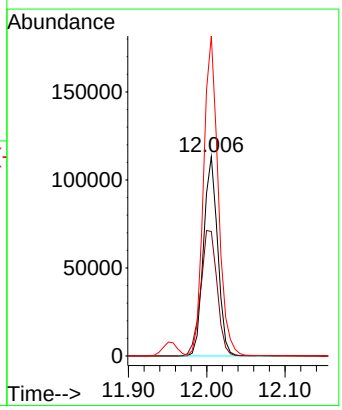


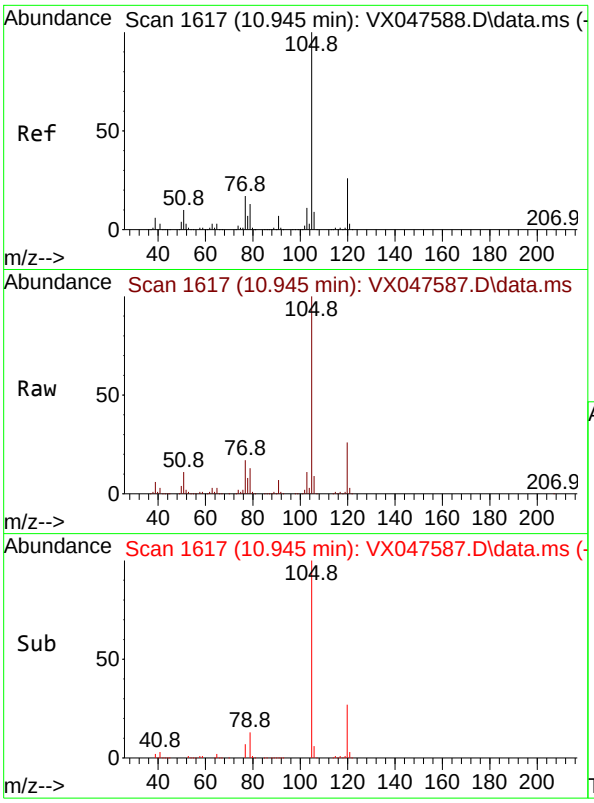


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:152 Resp: 141590

Ion	Ratio	Lower	Upper
152	100		
115	73.2	44.9	134.5
150	167.1	0.0	352.0



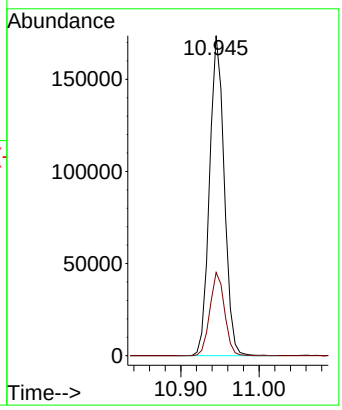


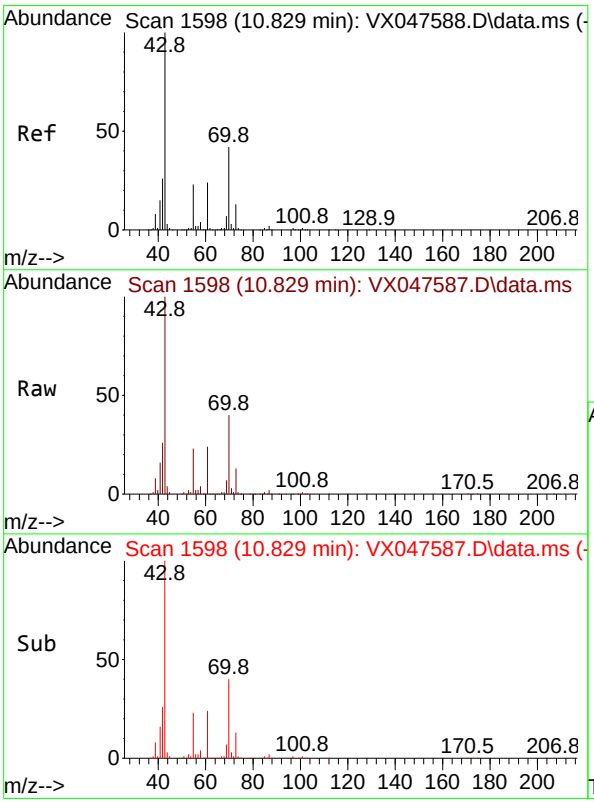
#73
Isopropylbenzene
Concen: 20.970 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 225730

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4

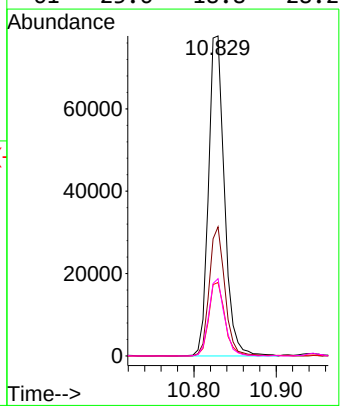


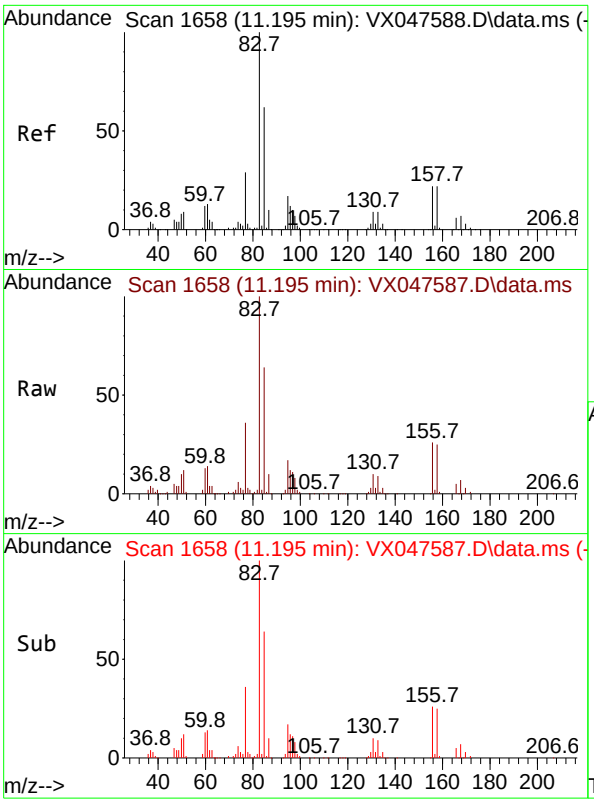


#74
N-amyl acetate
Concen: 21.354 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 104823

Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.0	48.0
55	23.4	18.9	28.3
61	23.6	18.8	28.2



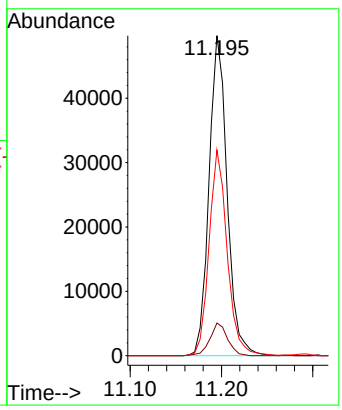


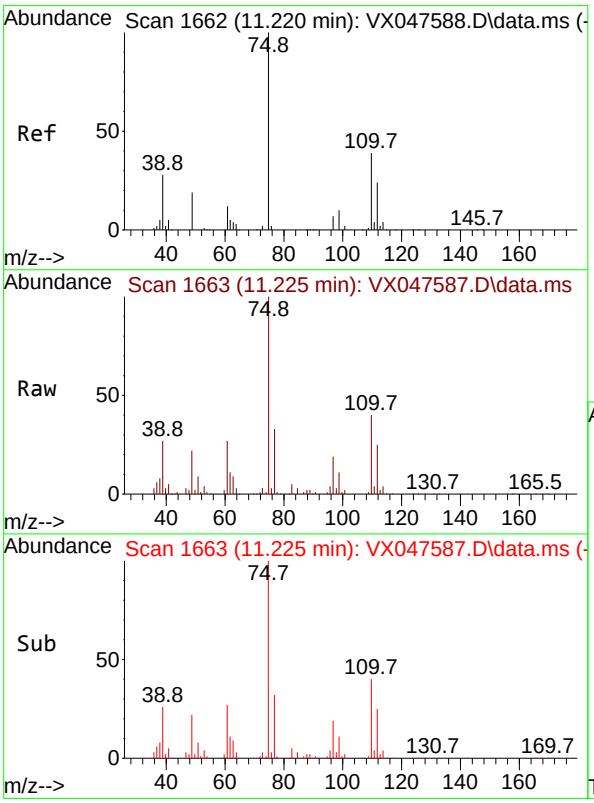
#75
1,1,2,2-Tetrachloroethane
Concen: 20.920 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 68132

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.4	31.6	95.0

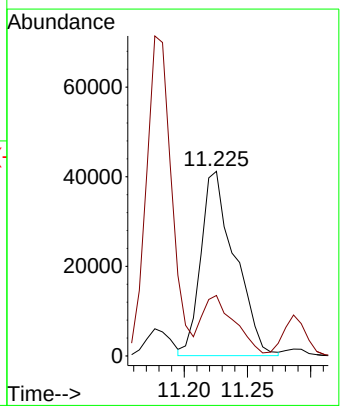


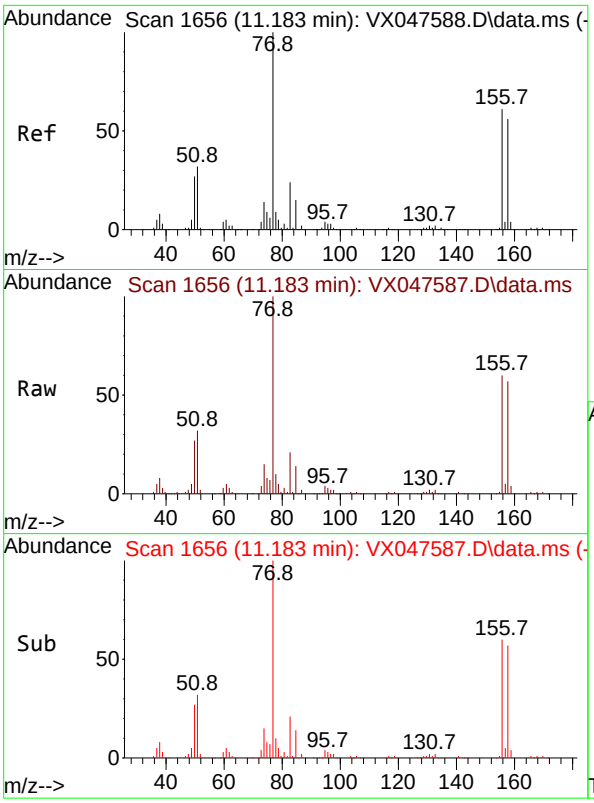


#76
1,2,3-Trichloropropane
Concen: 26.858 ug/l
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 76996

Ion	Ratio	Lower	Upper
75	100		
77	31.3	18.8	56.4



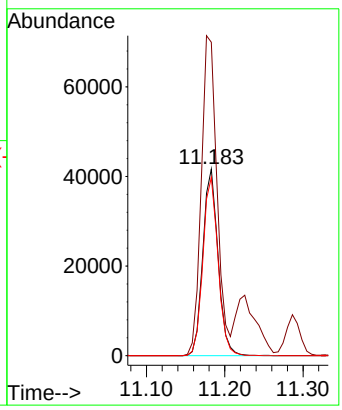


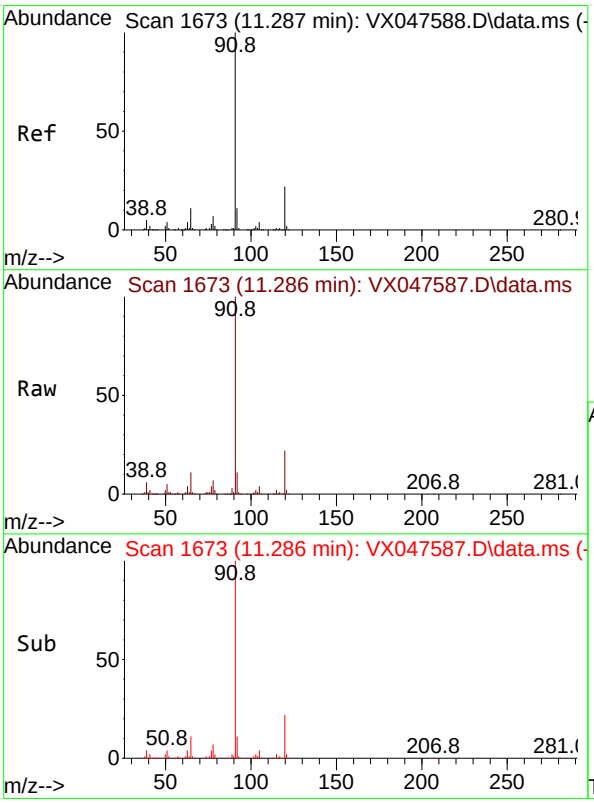
#77
Bromobenzene
Concen: 21.183 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 56161

Ion	Ratio	Lower	Upper
156	100		
77	177.4	89.7	269.1
158	95.2	47.9	143.6

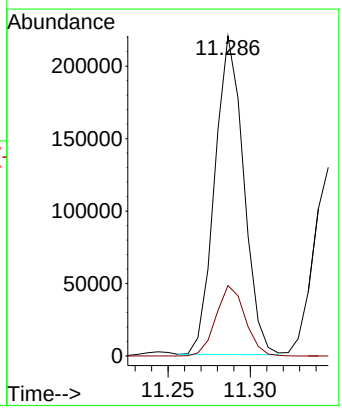


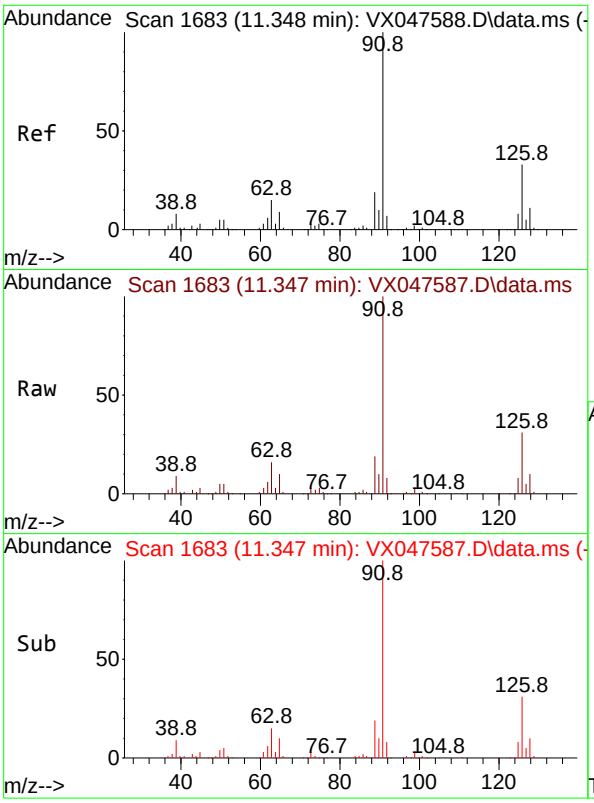


#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 268399

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1



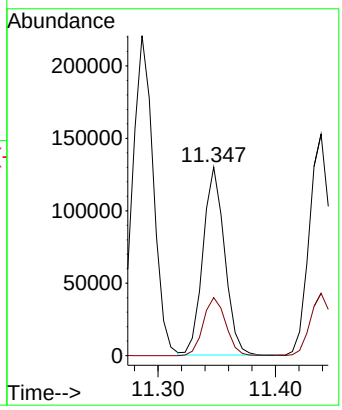


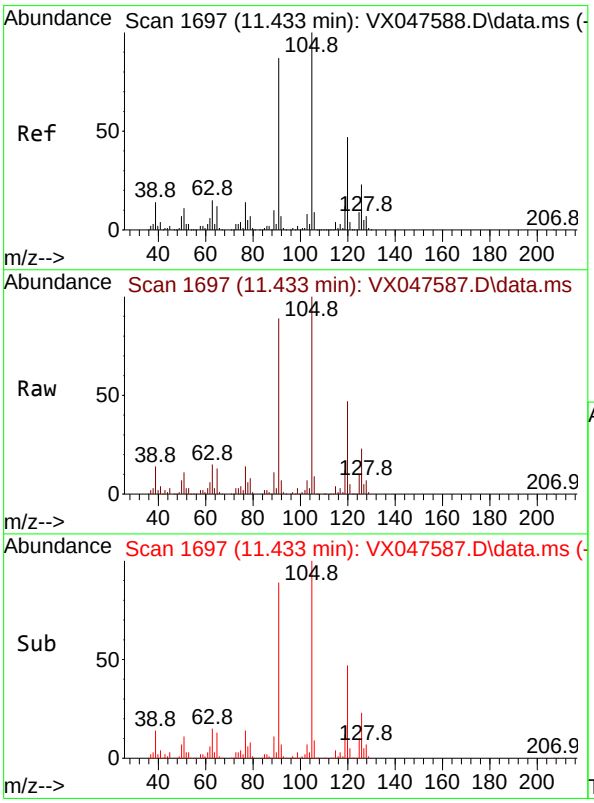
#79
2-Chlorotoluene
Concen: 21.329 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 166237

Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.3

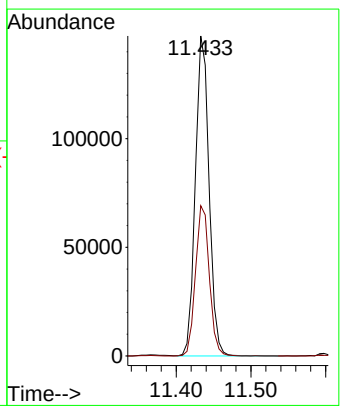


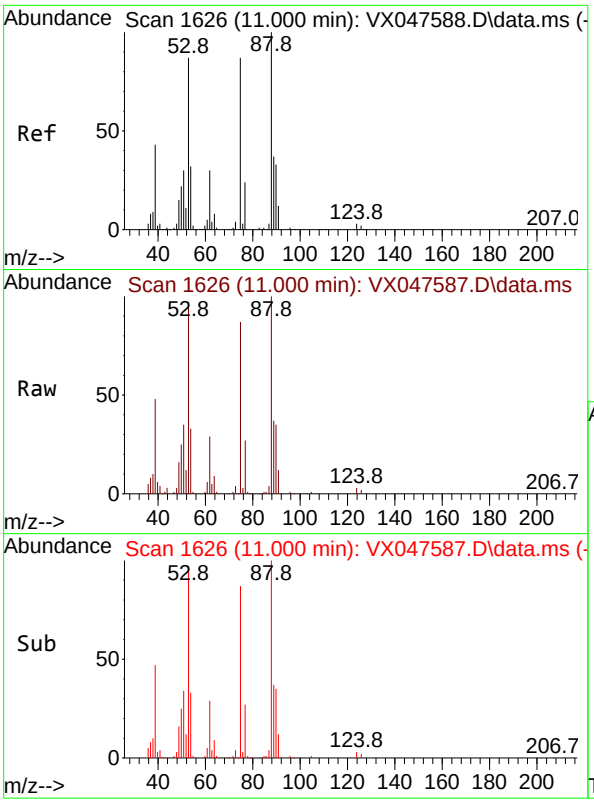


#80
1,3,5-Trimethylbenzene
Concen: 21.202 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 187513

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8



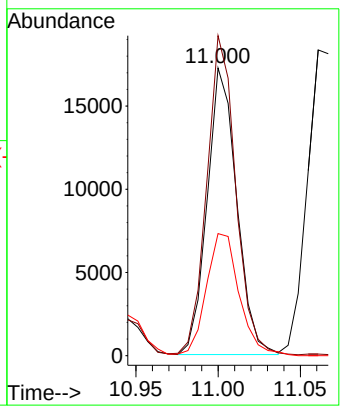


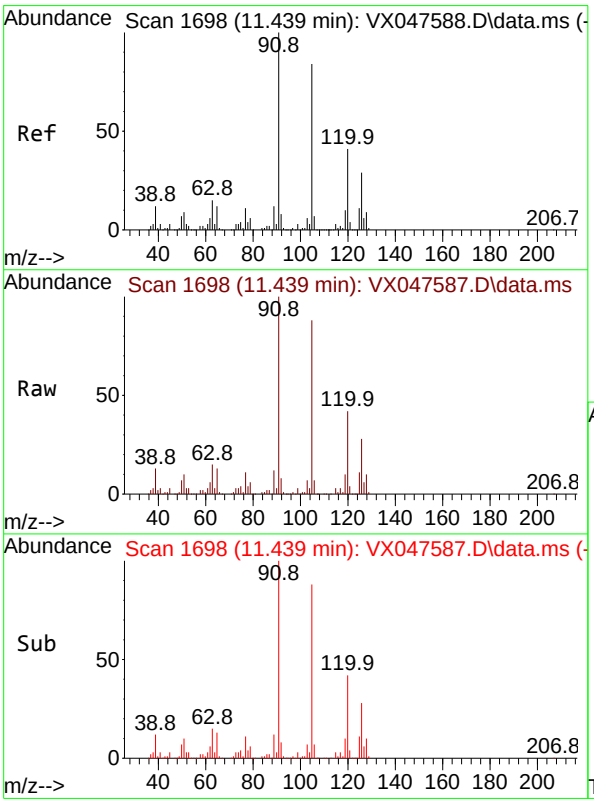
#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 21553

Ion	Ratio	Lower	Upper
75	100		
53	109.1	83.4	125.2
89	47.6	36.3	54.5

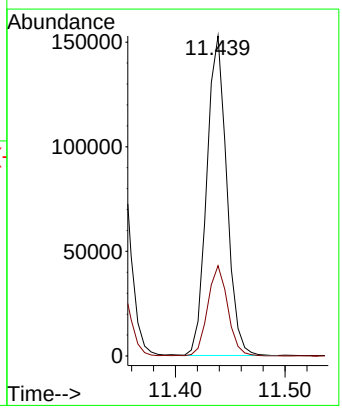


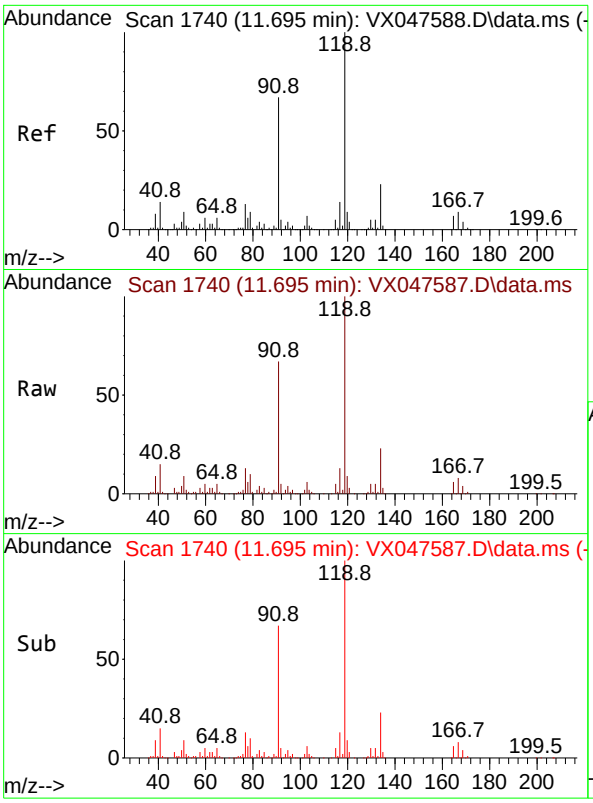


#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 193122

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6



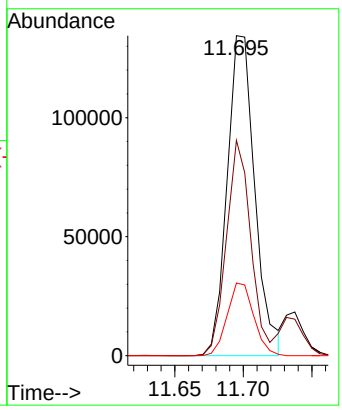


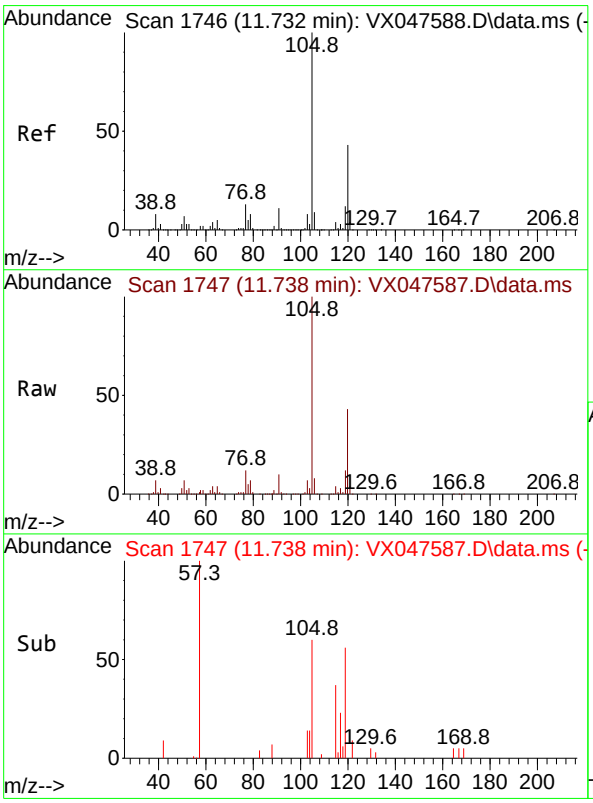
#83
tert-Butylbenzene
Concen: 20.929 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 189484

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	21.8	11.0	33.0

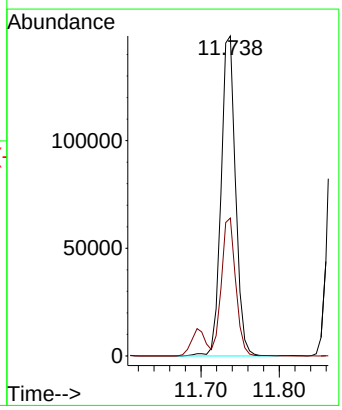


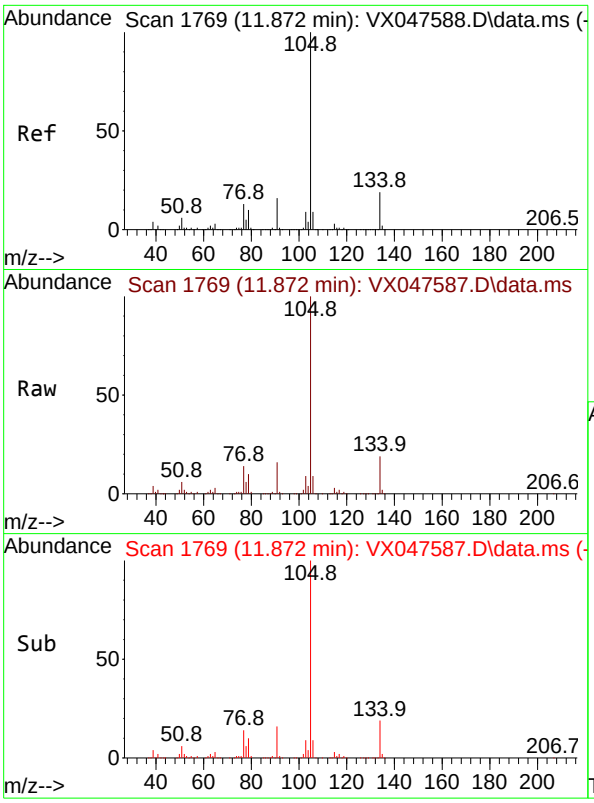


#84
1,2,4-Trimethylbenzene
Concen: 21.355 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 191477

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.1



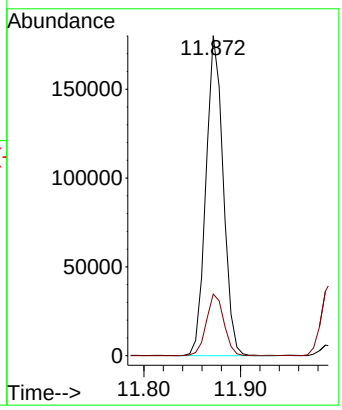


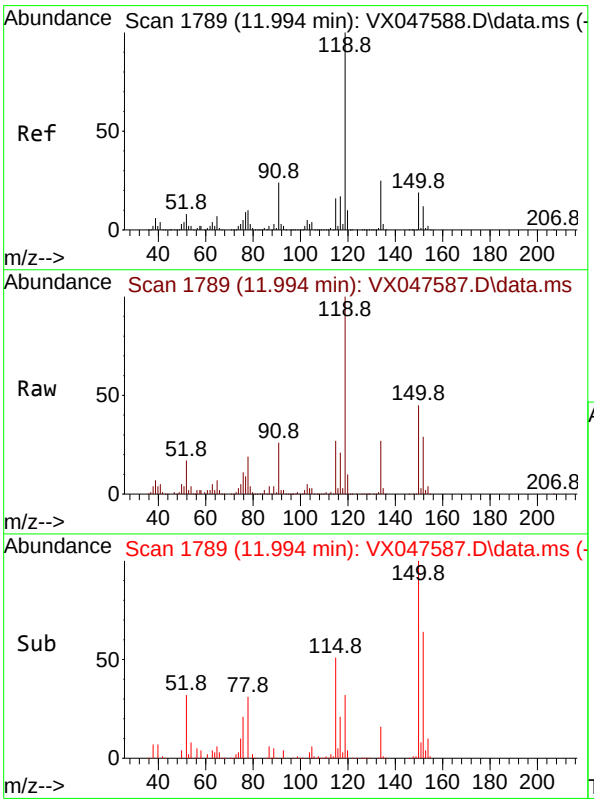
#85
sec-Butylbenzene
Concen: 20.777 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 223434

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

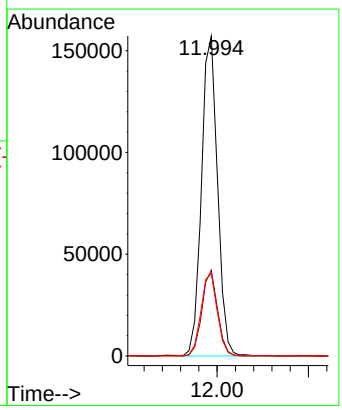


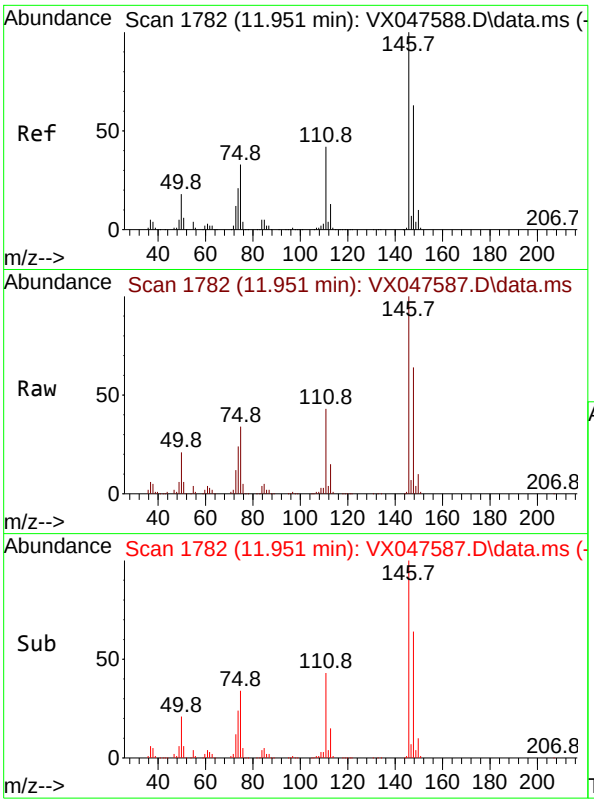


#86
p-Isopropyltoluene
Concen: 20.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 190931

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	26.2	12.6	37.6



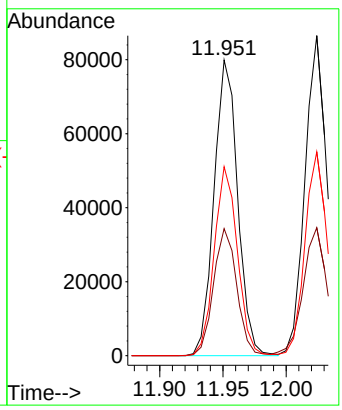


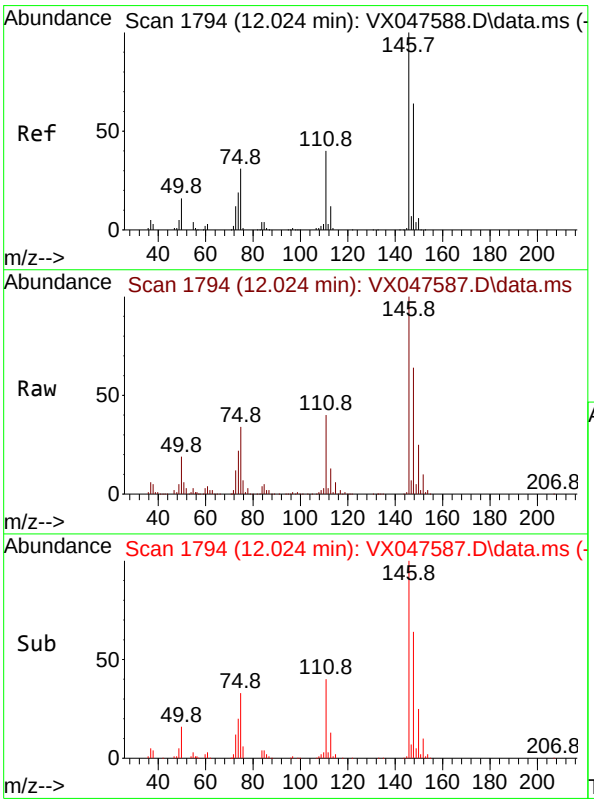
#87
1,3-Dichlorobenzene
Concen: 21.035 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 103584

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	62.7	32.0	96.0

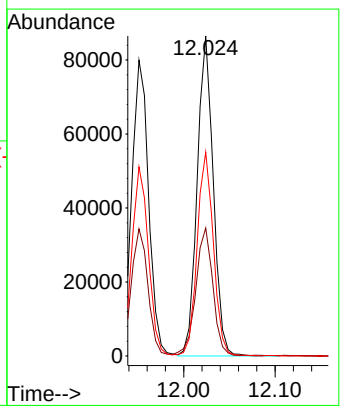


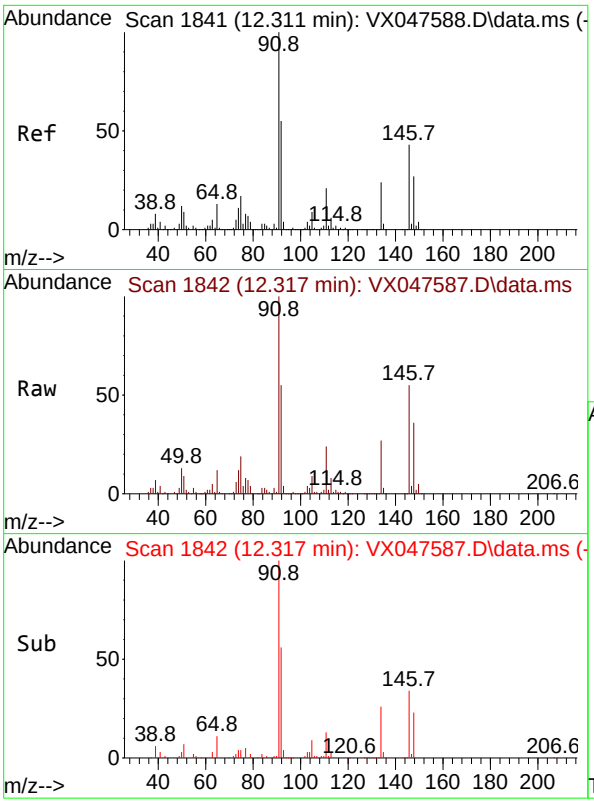


#88
1,4-Dichlorobenzene
Concen: 20.937 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 105819

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.4	31.7	95.1



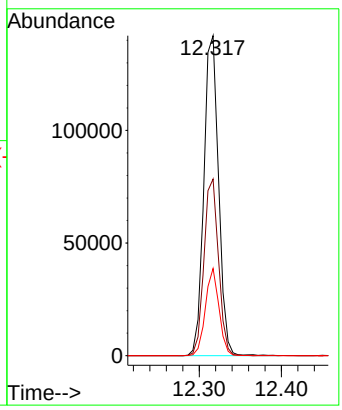


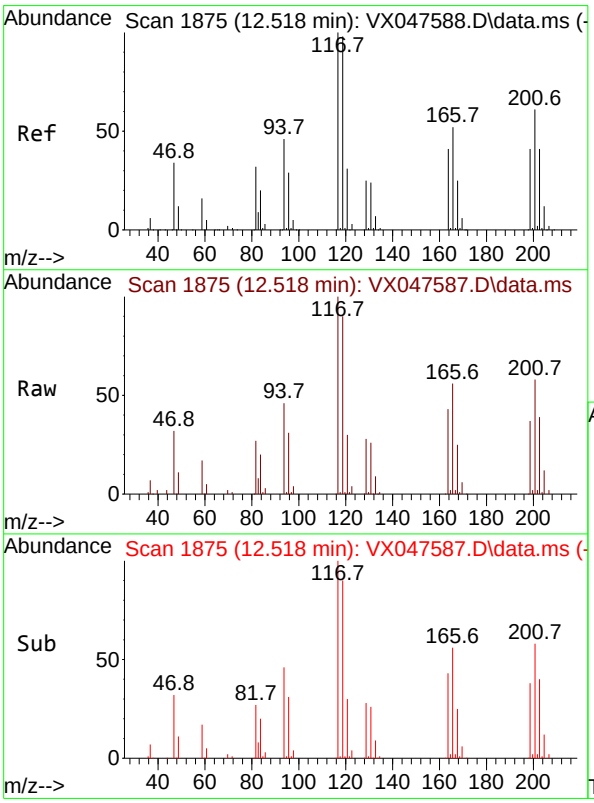
#89
n-Butylbenzene
Concen: 20.937 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 176373

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.3	12.6	37.8

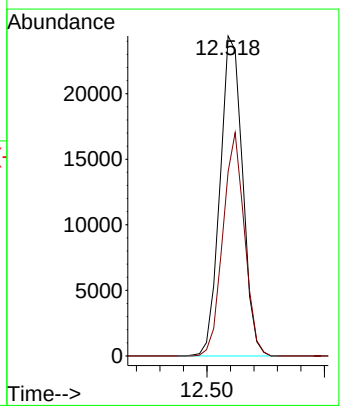


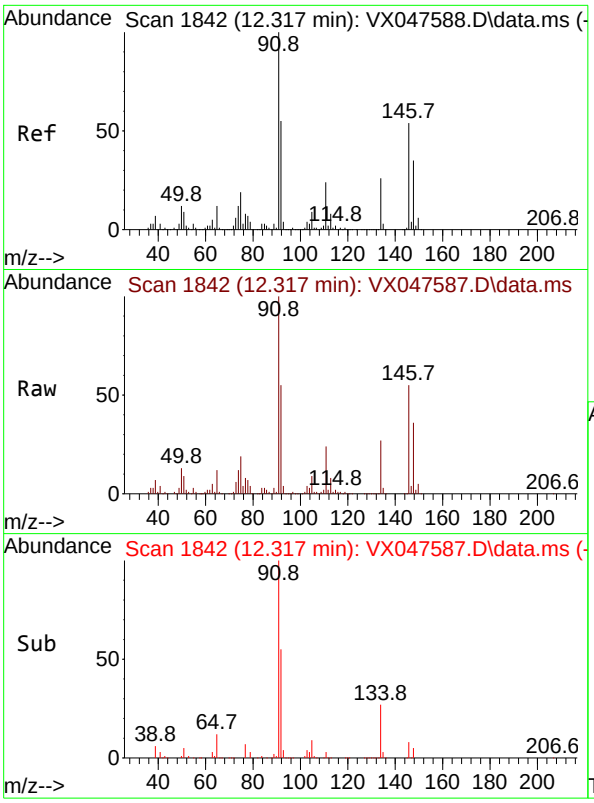


#90
Hexachloroethane
Concen: 20.349 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 32526

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5



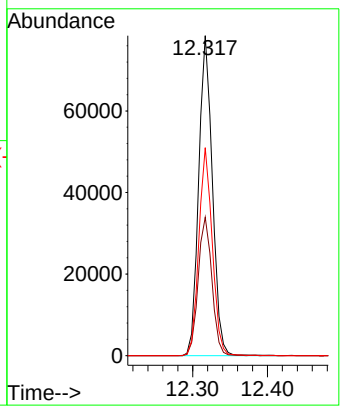


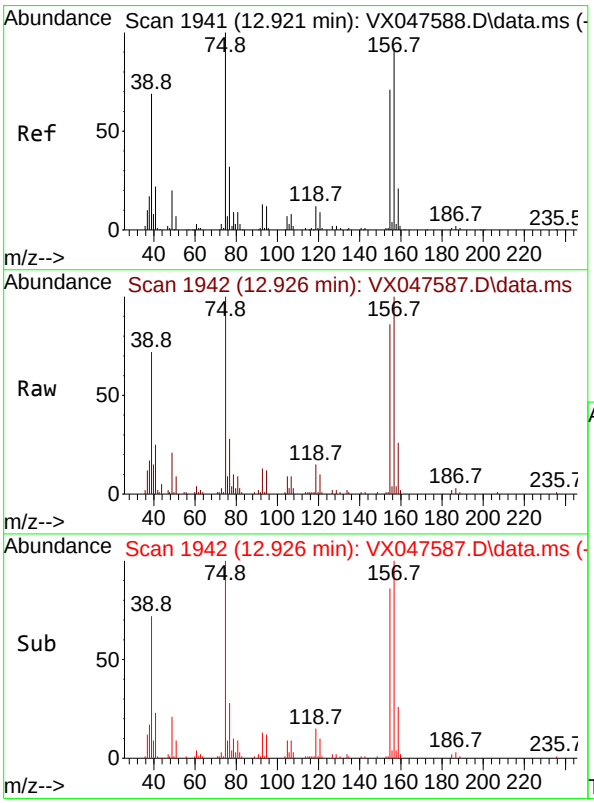
#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 99493

Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.2	66.6
148	63.9	31.8	95.4

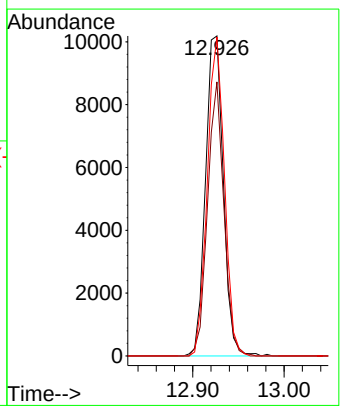


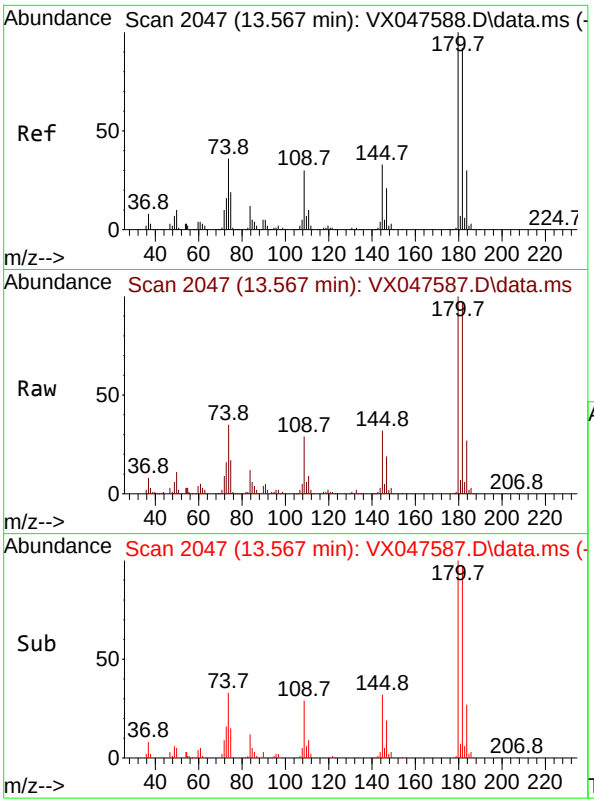


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.821 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 13729

Ion	Ratio	Lower	Upper
75	100		
155	78.8	37.7	113.1
157	95.9	49.8	149.4



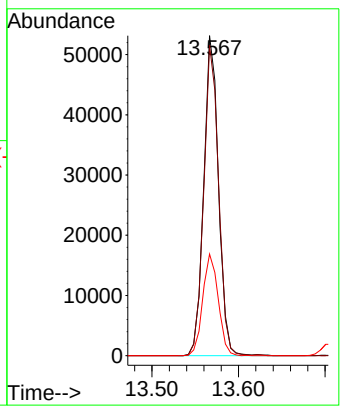


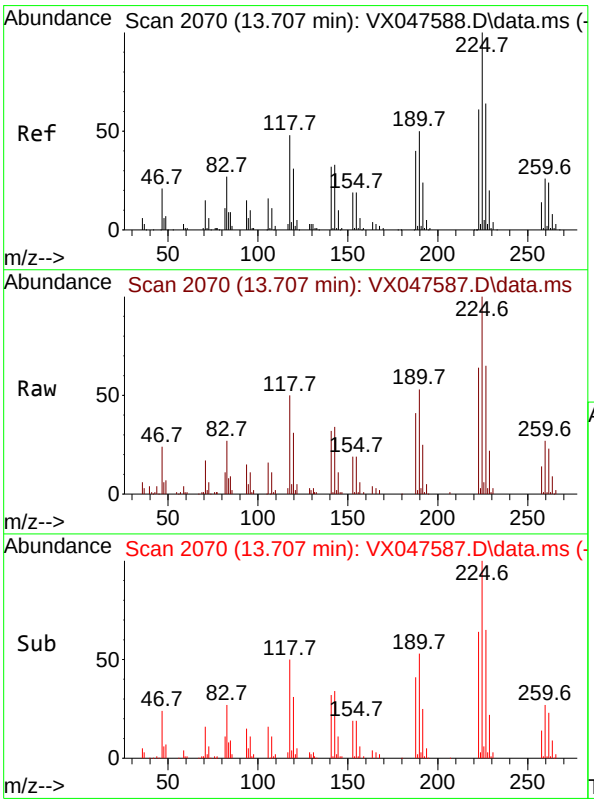
#93
1,2,4-Trichlorobenzene
Concen: 20.571 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 62722

Ion	Ratio	Lower	Upper
180	100		
182	97.8	46.6	139.8
145	33.4	16.4	49.1

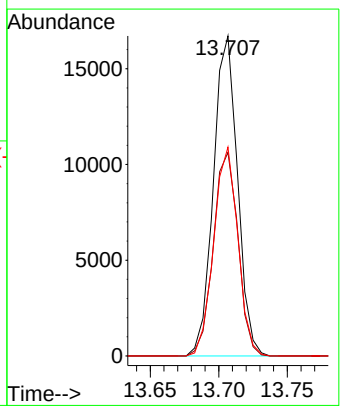


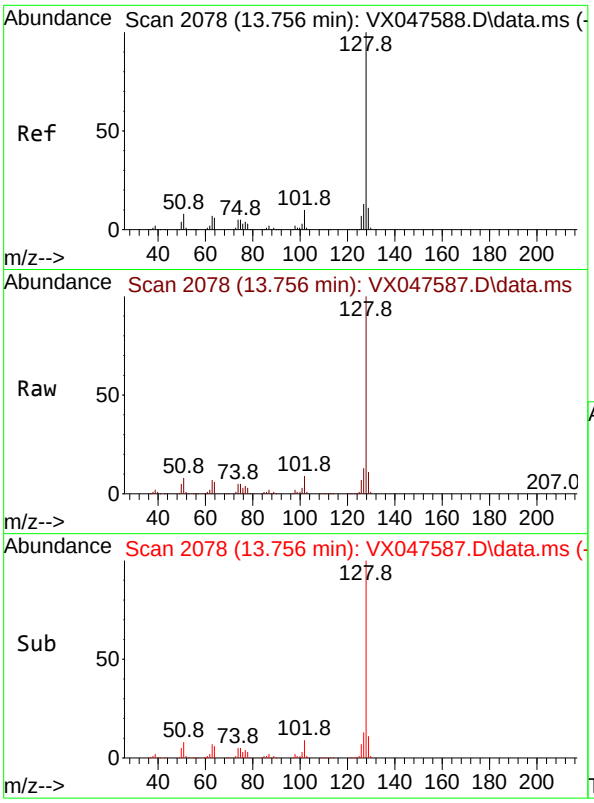


#94
Hexachlorobutadiene
Concen: 19.751 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:225 Resp: 20456

Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.7	95.1
227	65.1	32.0	96.0



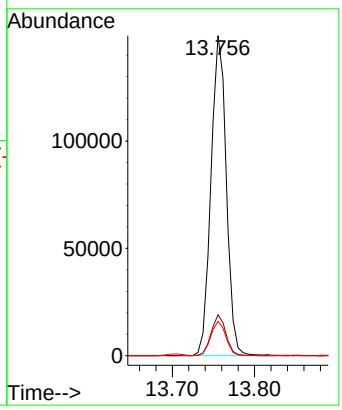


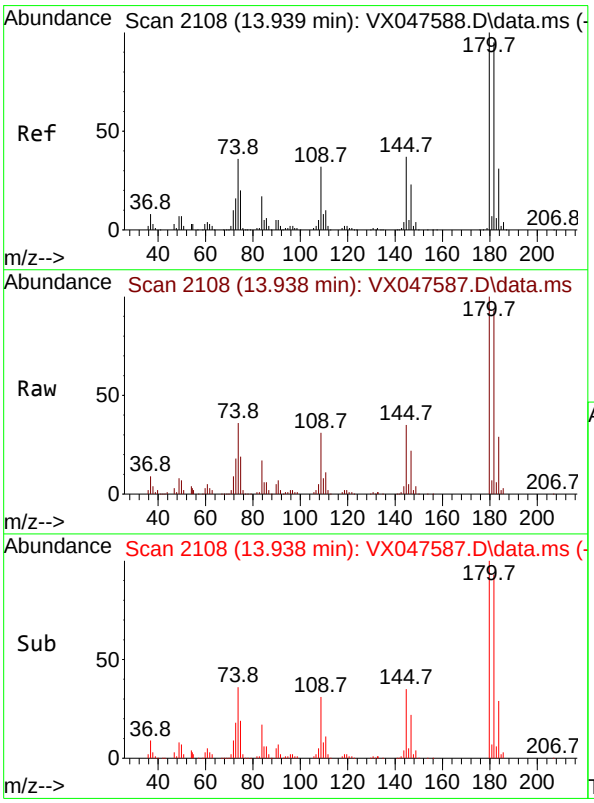
#95
Naphthalene
Concen: 20.801 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 193134

Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	10.5	8.8	13.2

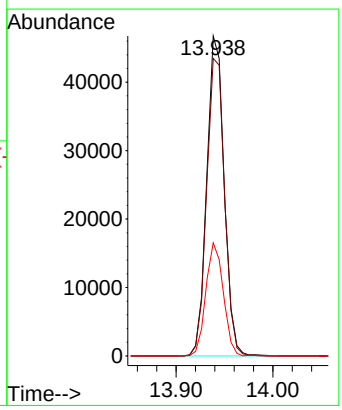




#96
1,2,3-Trichlorobenzene
Concen: 20.593 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:180 Resp: 58409

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.5	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.800%		
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.600%		
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.860%		
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.940%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707	ug/l		100
42) 1,2-Dichloroethane	6.074	62	179037	51.431	ug/l		100
43) Isopropyl Acetate	6.324	43	275572	52.096	ug/l		100
44) Trichloroethene	7.111	130	113832	51.463	ug/l		100
45) 1,2-Dichloropropane	7.415	63	122109	52.122	ug/l		100
46) Dibromomethane	7.568	93	88505	51.914	ug/l		100
47) Bromodichloromethane	7.806	83	186540	53.025	ug/l		100
48) Methyl methacrylate	7.678	41	138167	52.438	ug/l		100
49) 1,4-Dioxane	7.647	88	29496	1107.698	ug/l		100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650	ug/l		100
52) Toluene	8.702	92	288853	51.244	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369	ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915	ug/l		100
56) Ethyl methacrylate	9.104	69	184087	53.930	ug/l		100
57) 1,3-Dichloropropane	9.293	76	195989	52.492	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309	ug/l		100
59) 2-Hexanone	9.415	43	553313	262.683	ug/l		100
60) Dibromochloromethane	9.506	129	133737	53.401	ug/l		100
61) 1,2-Dibromoethane	9.592	107	116462	52.607	ug/l		100
64) Tetrachloroethene	9.257	164	88149	50.074	ug/l		100
65) Chlorobenzene	10.061	112	317982	51.833	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835	ug/l		100
67) Ethyl Benzene	10.177	91	550610	52.017	ug/l		100
68) m/p-Xylenes	10.287	106	412932	104.809	ug/l		100
69) o-Xylene	10.622	106	202291	53.084	ug/l		100
70) Styrene	10.640	104	350654	52.515	ug/l		100
71) Bromoform	10.781	173	84485	53.447	ug/l	#	100
73) Isopropylbenzene	10.945	105	516891	53.227	ug/l		100
74) N-amyl acetate	10.829	43	237846	53.710	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251	ug/l		100
76) 1,2,3-Trichloropropane	11.220	75	178309	68.947	ug/l		88
77) Bromobenzene	11.183	156	126174	52.754	ug/l		100
78) n-propylbenzene	11.287	91	612035	53.315	ug/l		100
79) 2-Chlorotoluene	11.348	91	372397	52.965	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190	ug/l		100
82) 4-Chlorotoluene	11.439	91	438502	52.806	ug/l		100
83) tert-Butylbenzene	11.695	119	429107	52.539	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798	ug/l		100
85) sec-Butylbenzene	11.872	105	514442	53.029	ug/l		100
86) p-Isopropyltoluene	11.994	119	436704	53.172	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316	ug/l		100
89) n-Butylbenzene	12.311	91	400997	52.766	ug/l		100
90) Hexachloroethane	12.518	117	75800	52.567	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685	ug/l		100
94) Hexachlorobutadiene	13.707	225	49061	52.510	ug/l		100
95) Naphthalene	13.756	128	452013	53.966	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

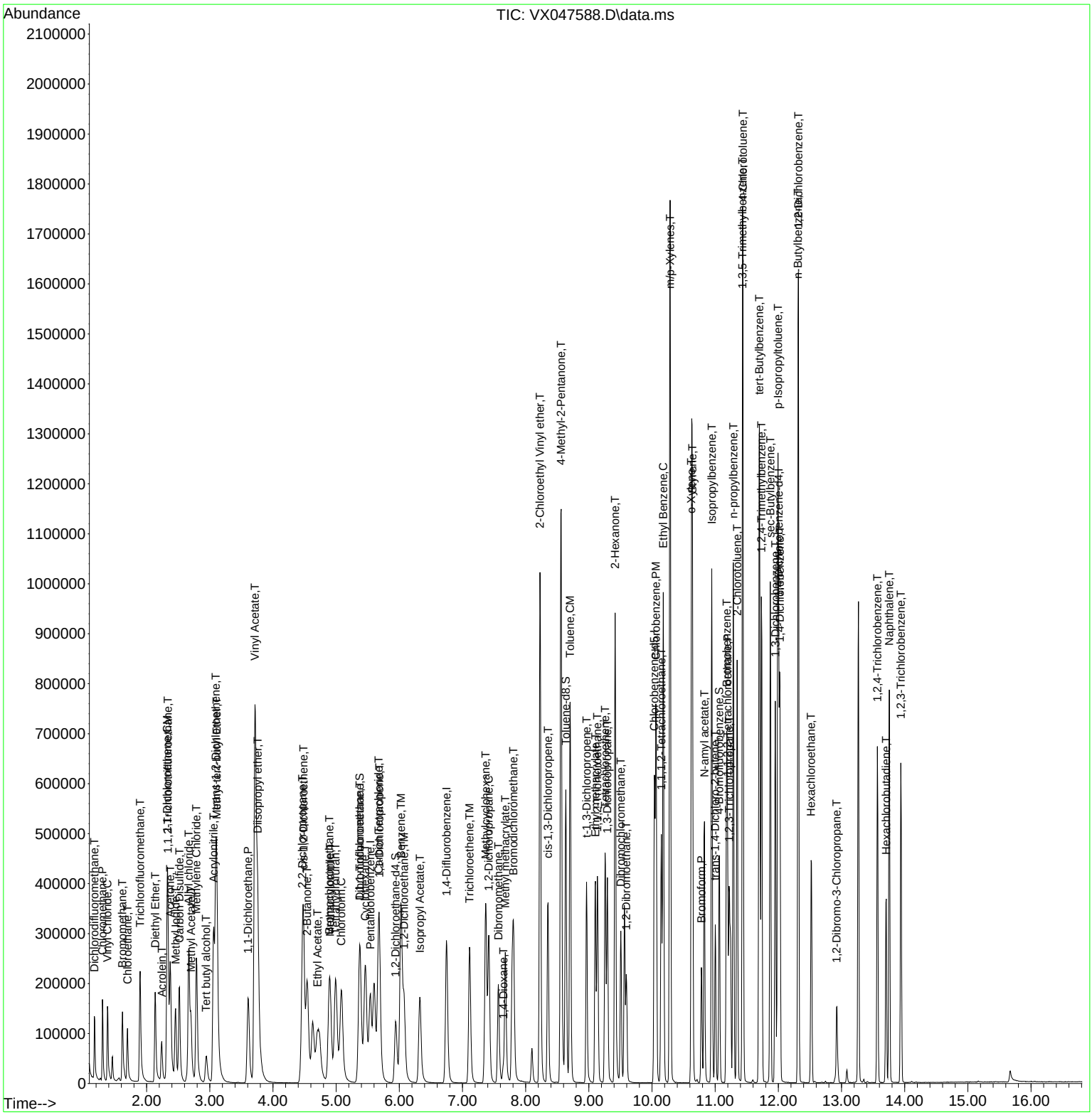
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

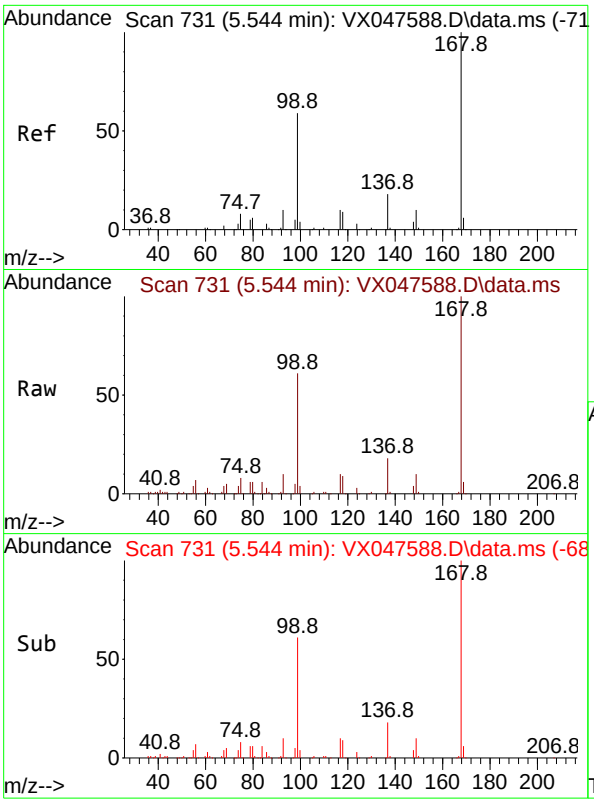
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



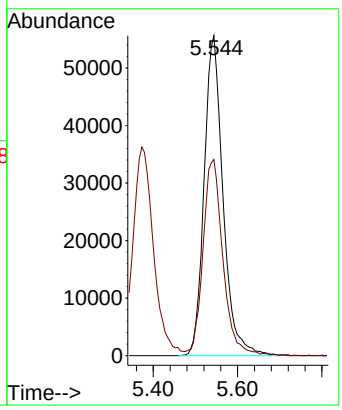


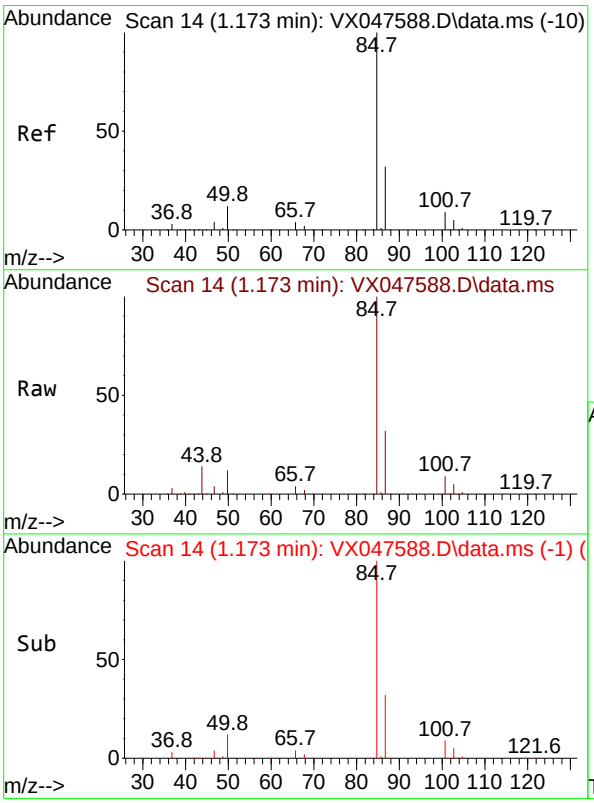
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 173407

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2

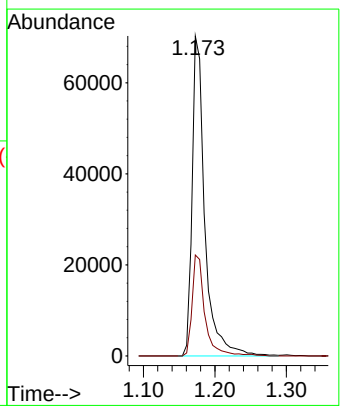


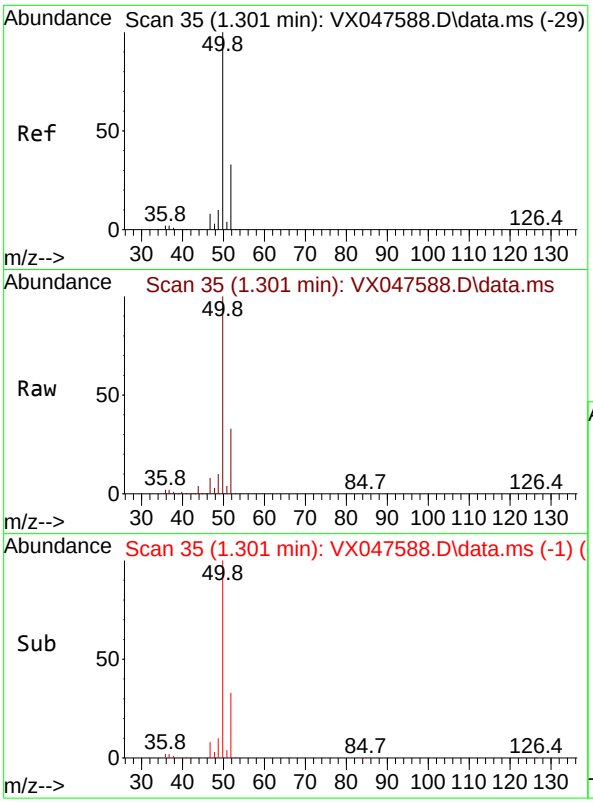


#2
Dichlorodifluoromethane
Concen: 48.352 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 85 Resp: 86824

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3



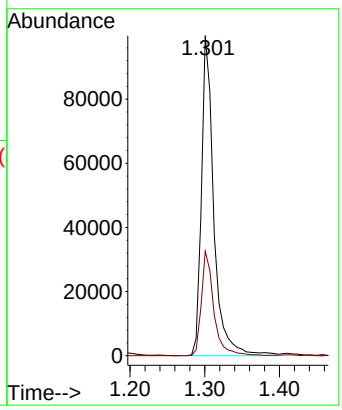


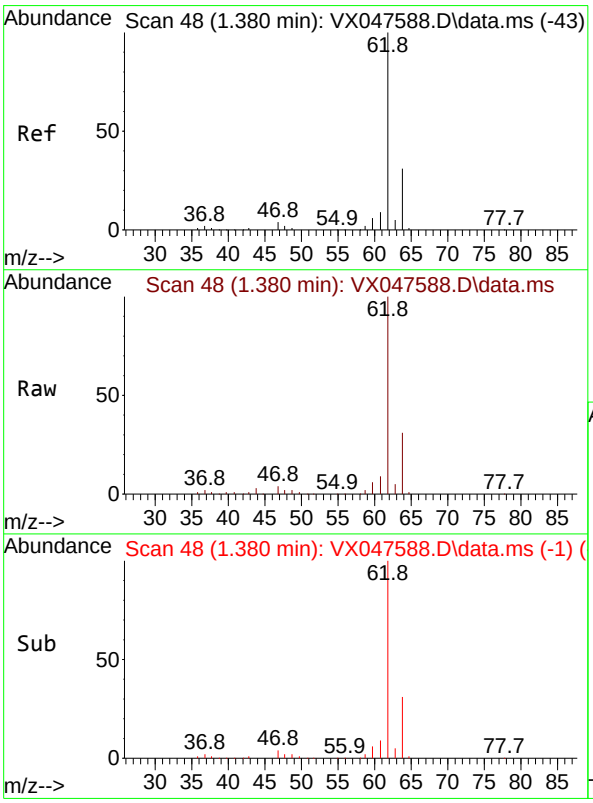
#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 114682

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1

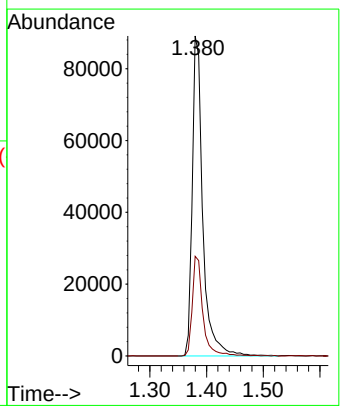


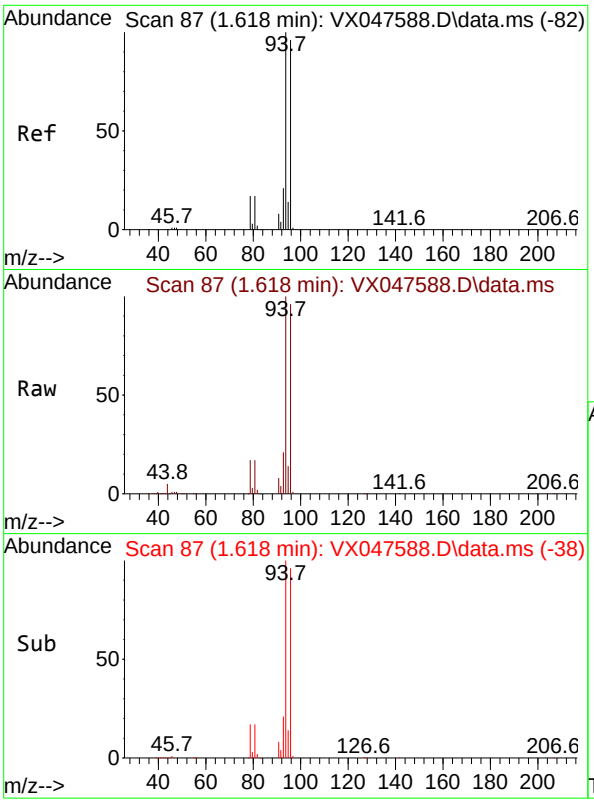


#4
Vinyl Chloride
Concen: 49.635 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 114666

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3



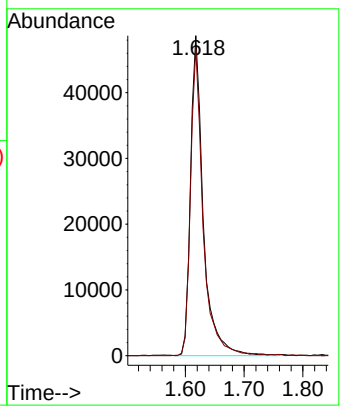


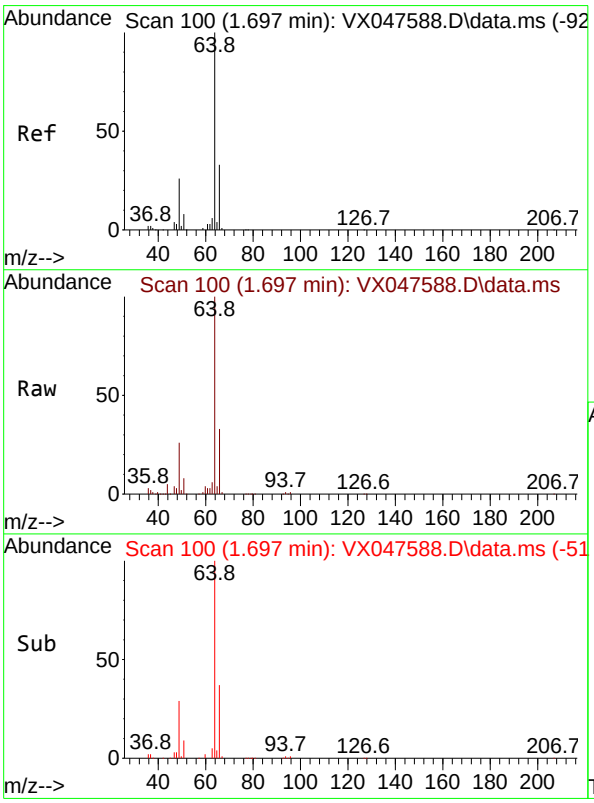
#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 73561

Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.6	115.0

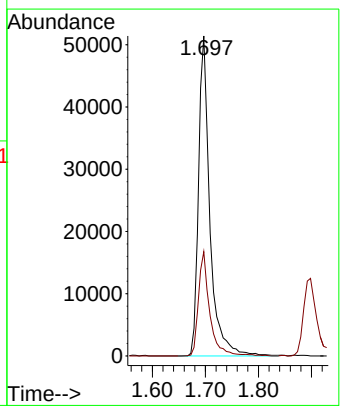


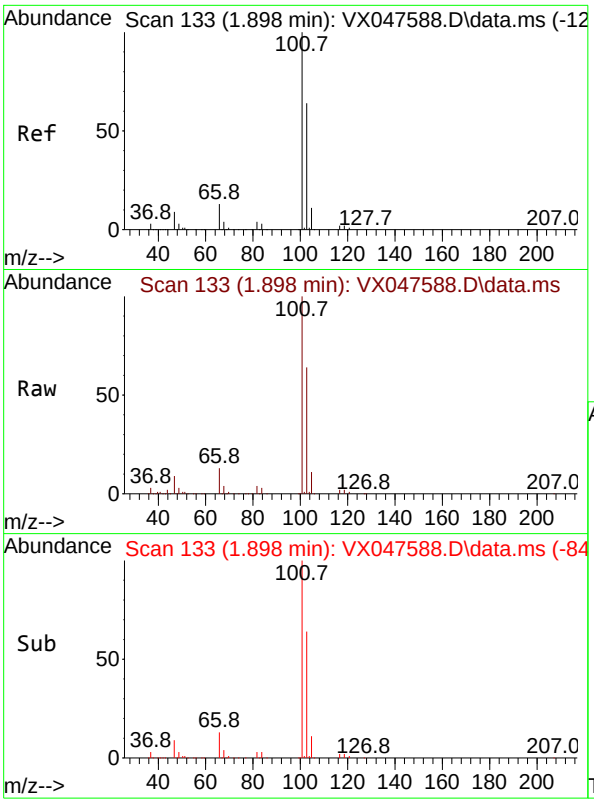


#6
Chloroethane
Concen: 49.698 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 64 Resp: 76736

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.1	39.1



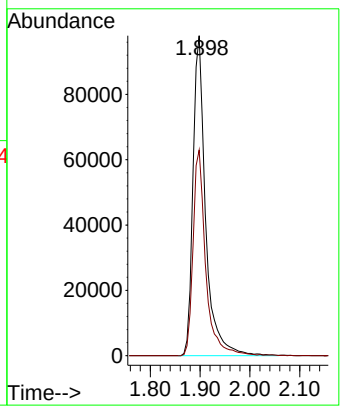


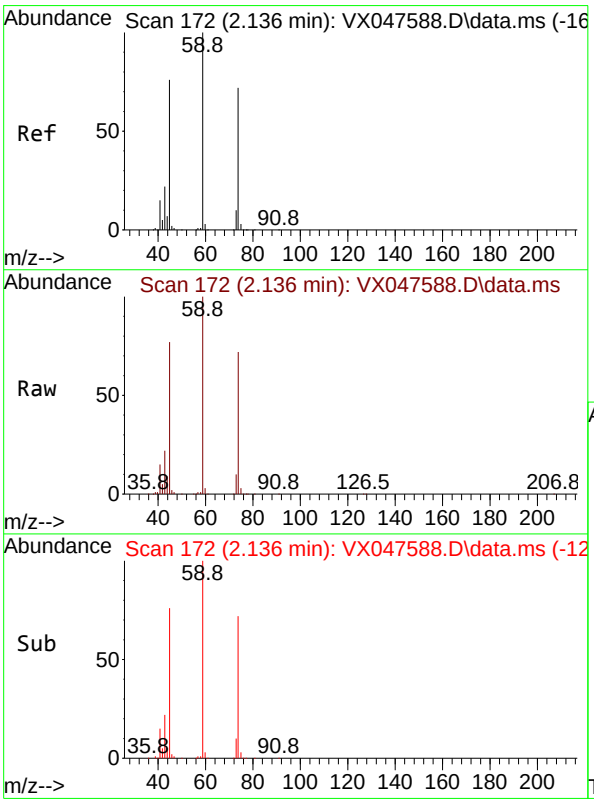
#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 172561

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2

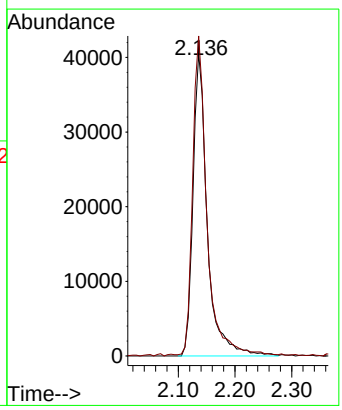


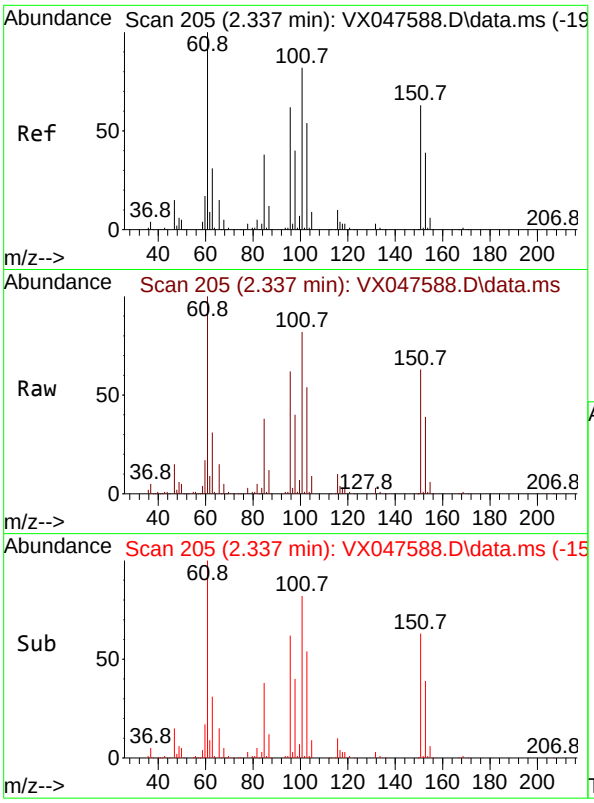


#8
Diethyl Ether
Concen: 50.510 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 74 Resp: 70874

Ion	Ratio	Lower	Upper
74	100		
45	104.5	52.3	156.8



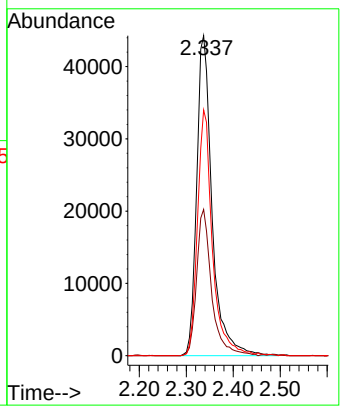


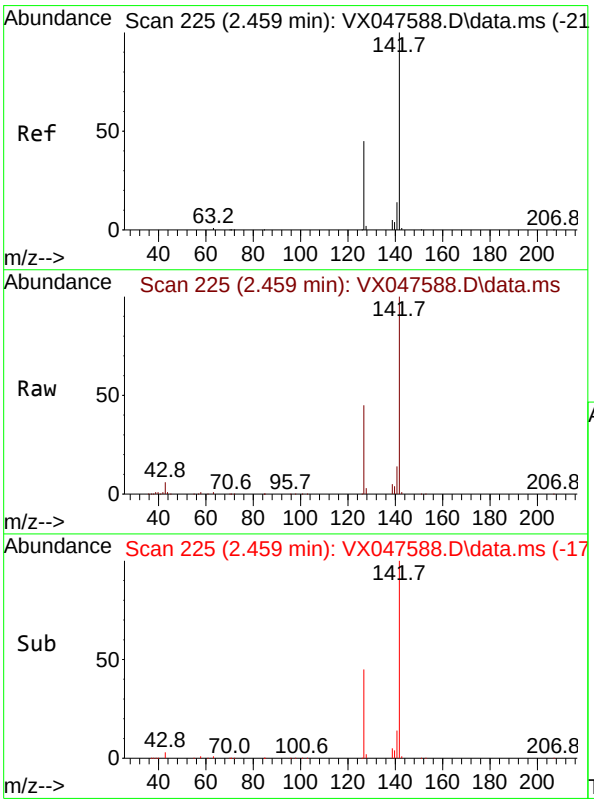
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.445 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 101178

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	74.2	59.4	89.0

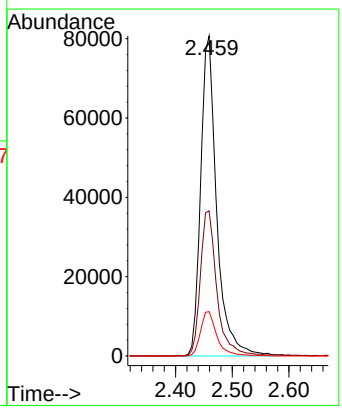


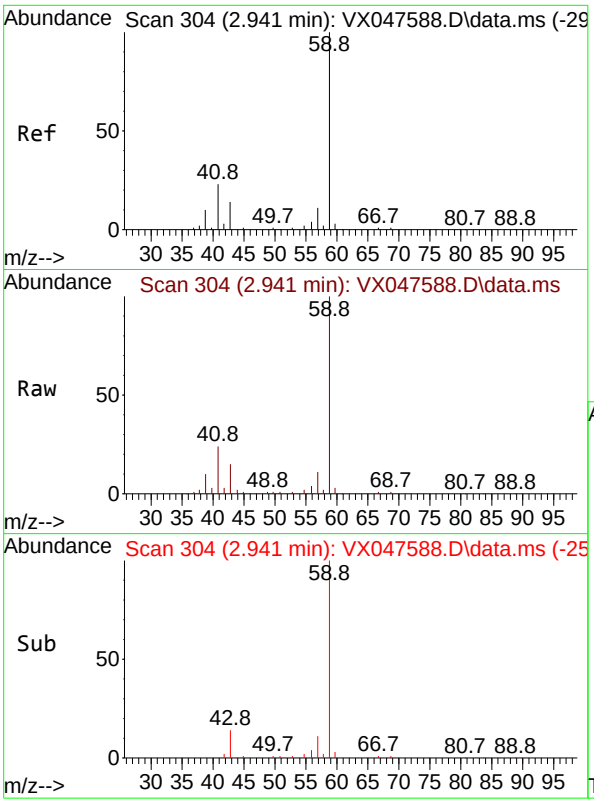


#10
Methyl Iodide
Concen: 50.525 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:142 Resp: 158046

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.2	11.4	17.0



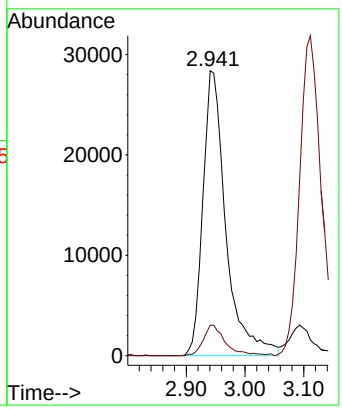


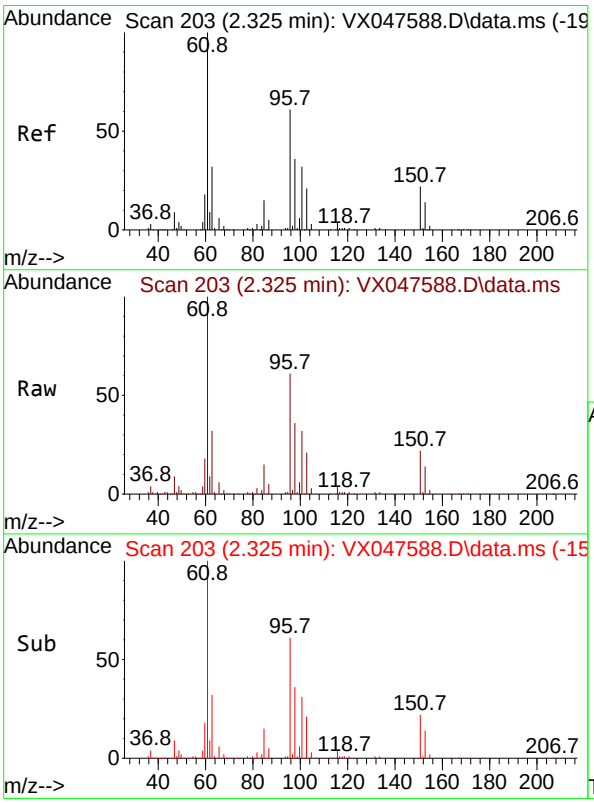
#11
Tert butyl alcohol
Concen: 251.232 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 77232

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

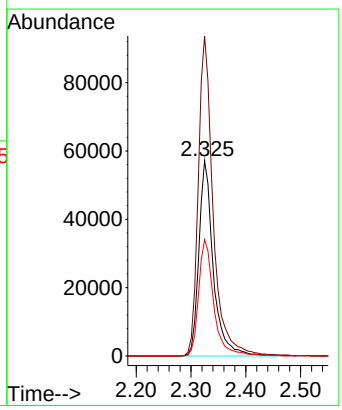


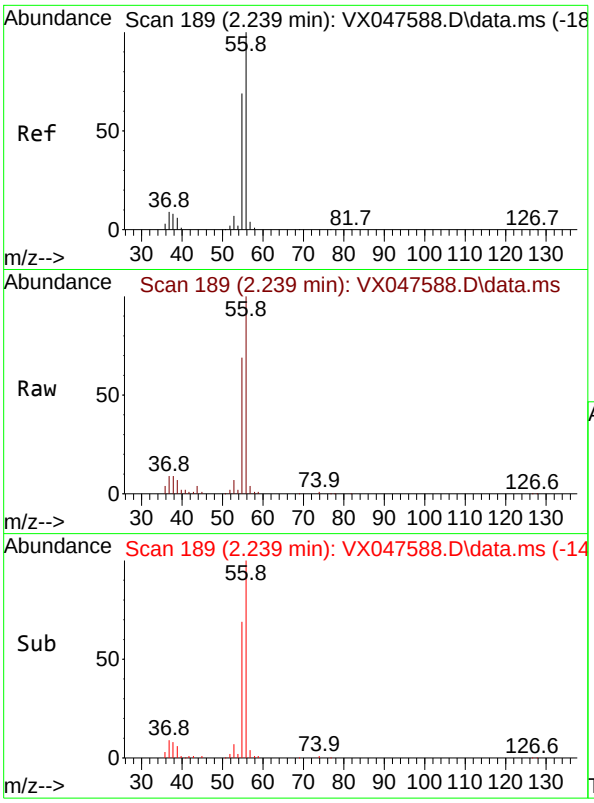


#12
1,1-Dichloroethene
Concen: 50.831 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 104724

Ion	Ratio	Lower	Upper
96	100		
61	163.8	131.0	196.6
98	59.6	47.7	71.5



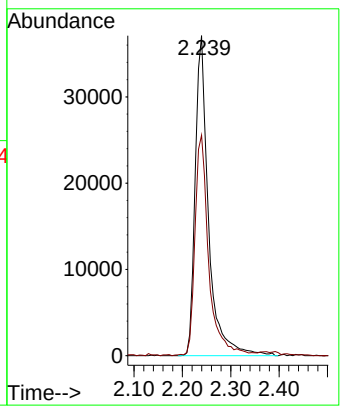


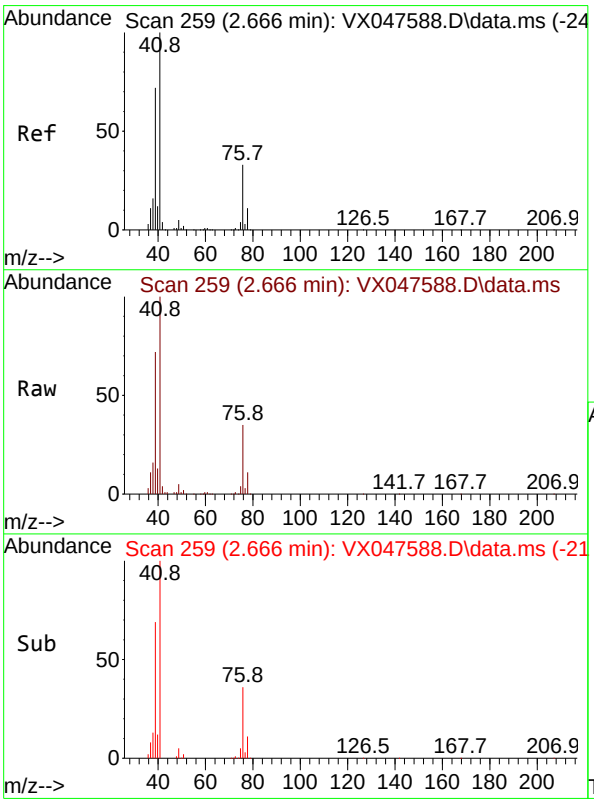
#13
Acrolein
Concen: 249.645 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 70721

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8

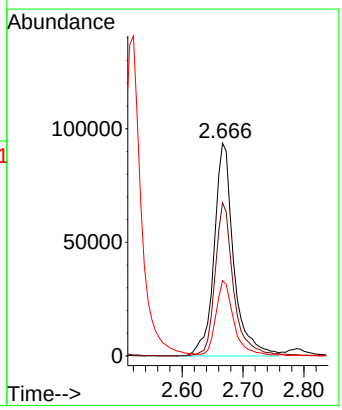


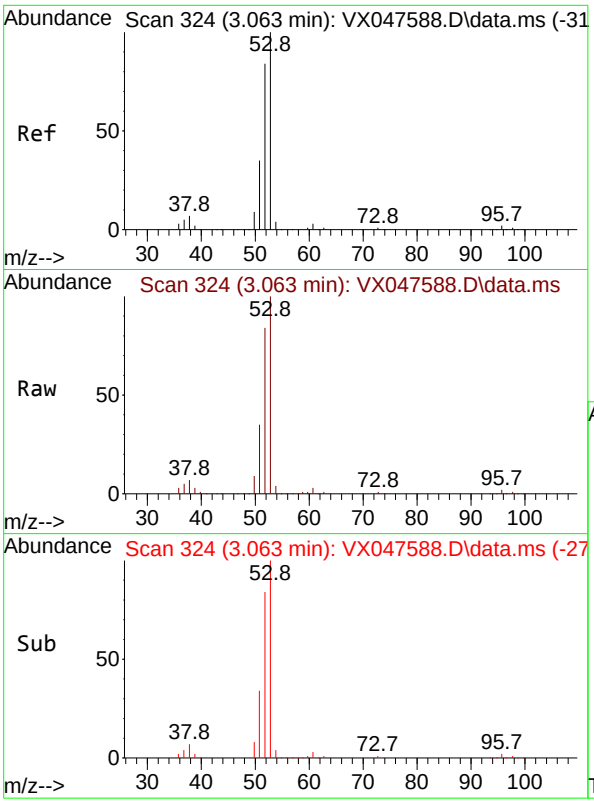


#14
Allyl chloride
Concen: 49.396 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 210001

Ion	Ratio	Lower	Upper
41	100		
39	68.4	54.7	82.1
76	32.1	25.7	38.5



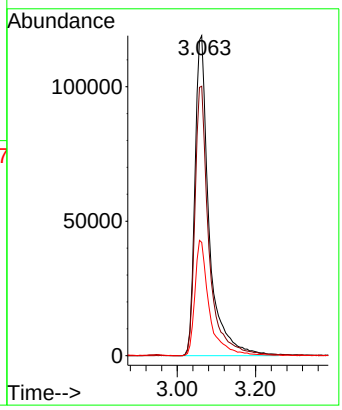


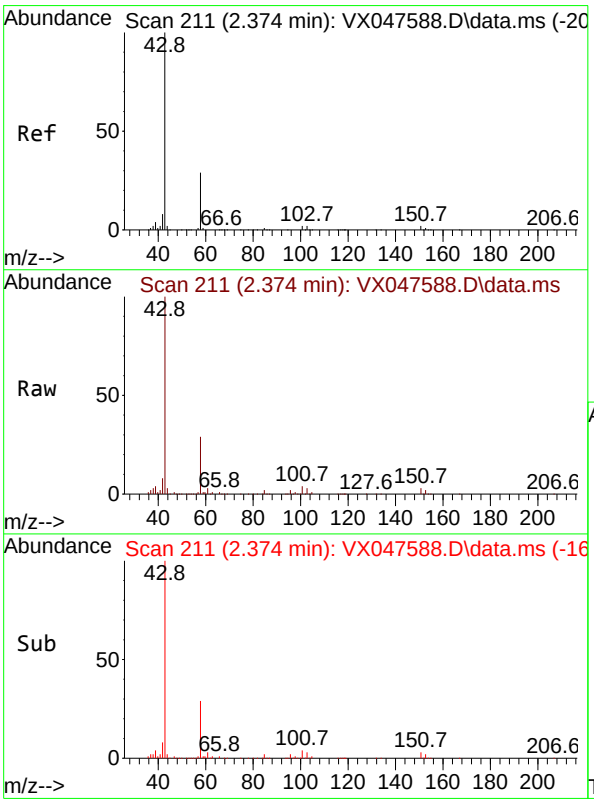
#15
Acrylonitrile
Concen: 264.027 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 300642

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.4	99.6
51	36.9	29.5	44.3

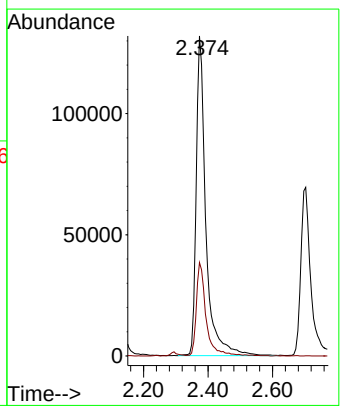


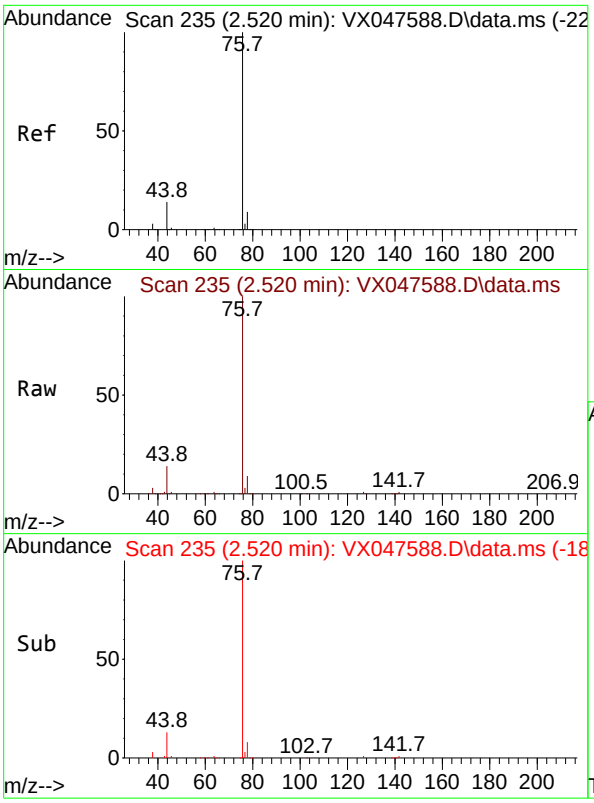


#16
Acetone
Concen: 229.193 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 275065

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.4	35.0



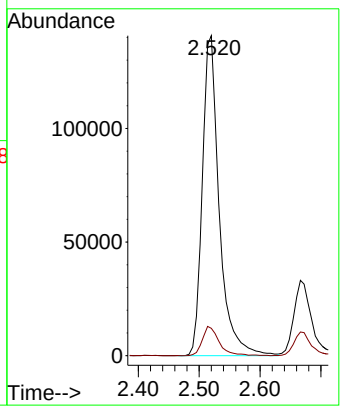


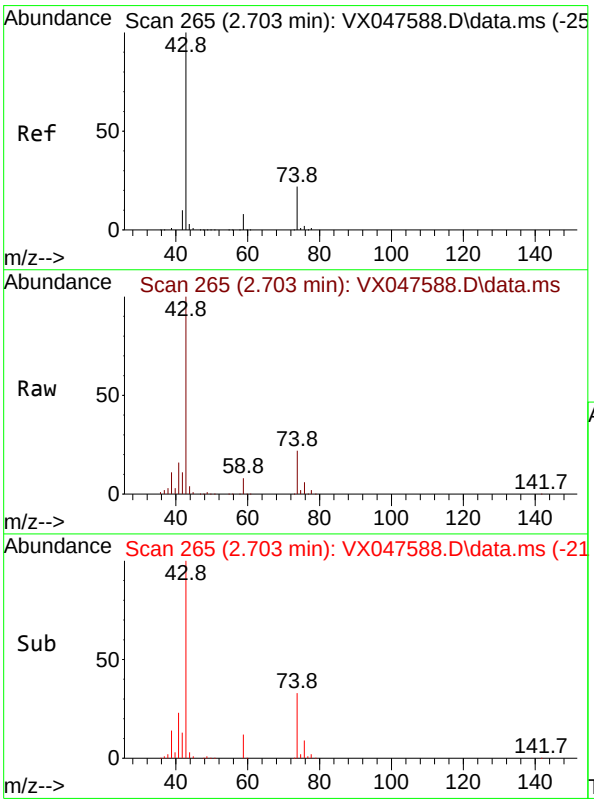
#17
Carbon Disulfide
Concen: 48.133 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 271480

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2

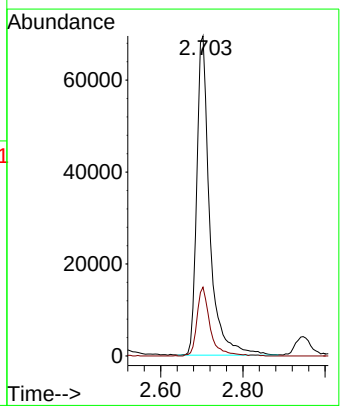


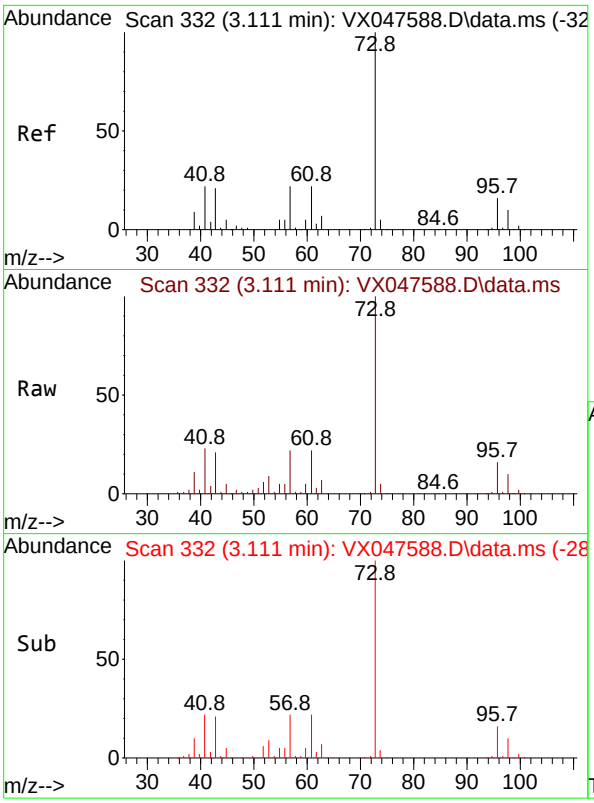


#18
Methyl Acetate
Concen: 56.897 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 151968

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



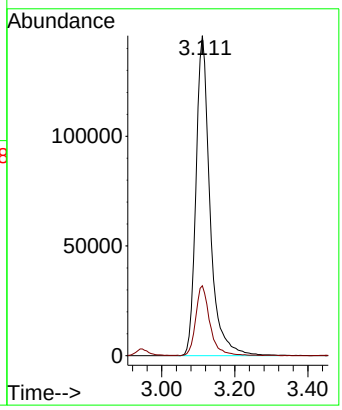


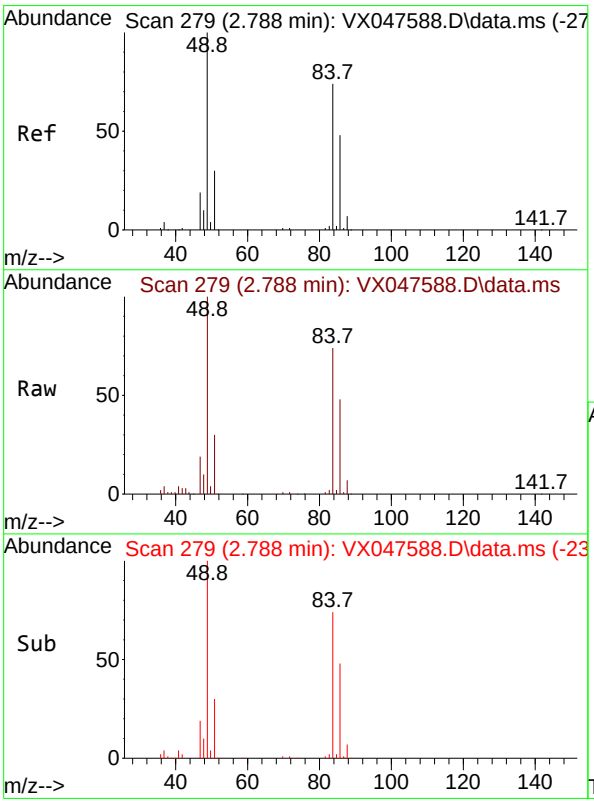
#19
Methyl tert-butyl Ether
Concen: 51.804 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 389607

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

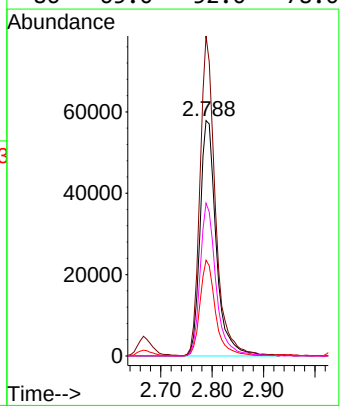


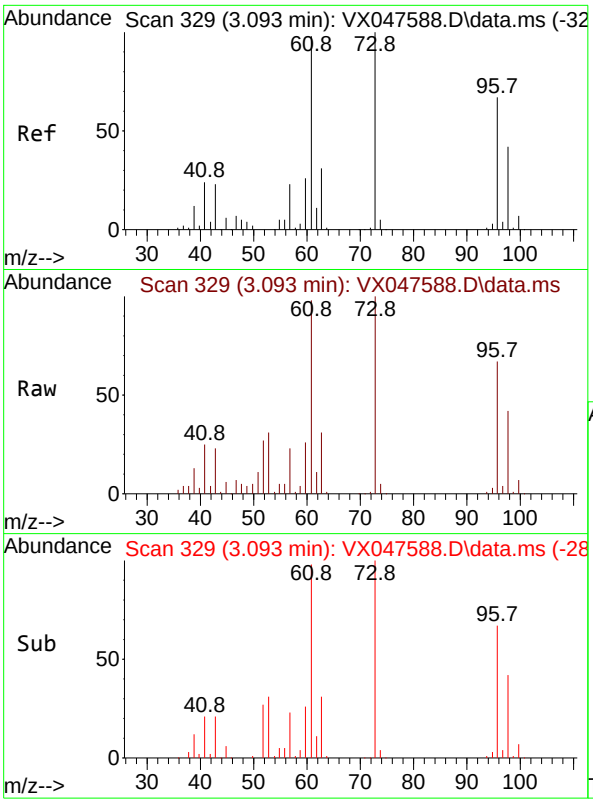


#20
Methylene Chloride
Concen: 49.798 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 84 Resp: 126506

Ion	Ratio	Lower	Upper
84	100		
49	135.7	108.6	162.8
51	40.7	32.6	48.8
86	65.0	52.0	78.0



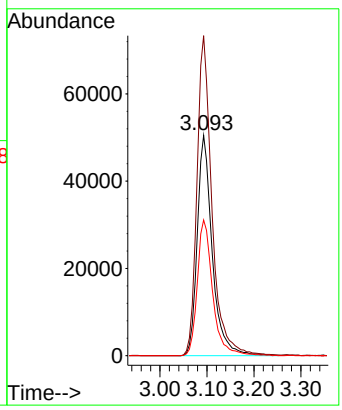


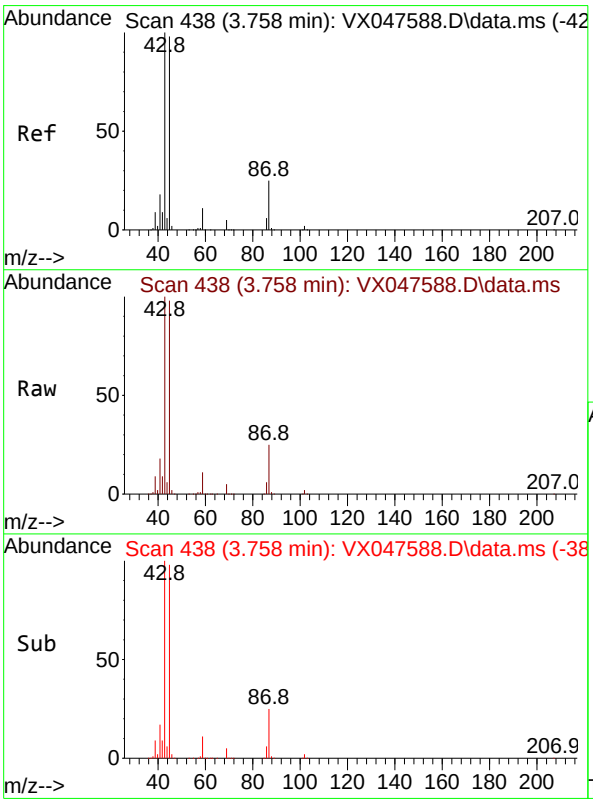
#21
trans-1,2-Dichloroethene
Concen: 50.743 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 112553

Ion	Ratio	Lower	Upper
96	100		
61	145.2	116.2	174.2
98	61.6	49.3	73.9

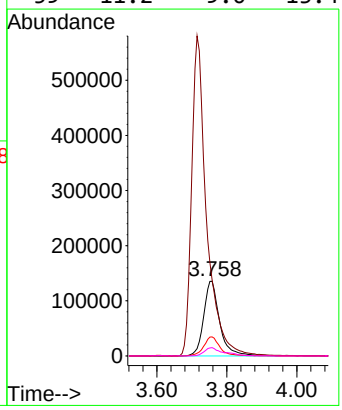


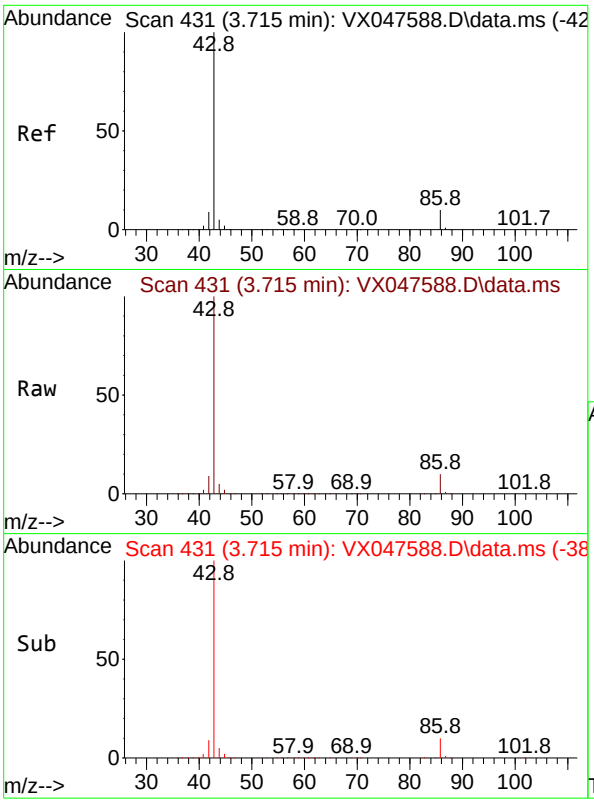


#22
Diisopropyl ether
Concen: 52.131 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 45 Resp: 429524

Ion	Ratio	Lower	Upper
45	100		
43	101.2	81.0	121.4
87	25.4	20.3	30.5
59	11.2	9.0	13.4



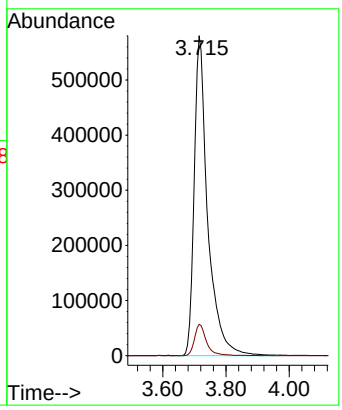


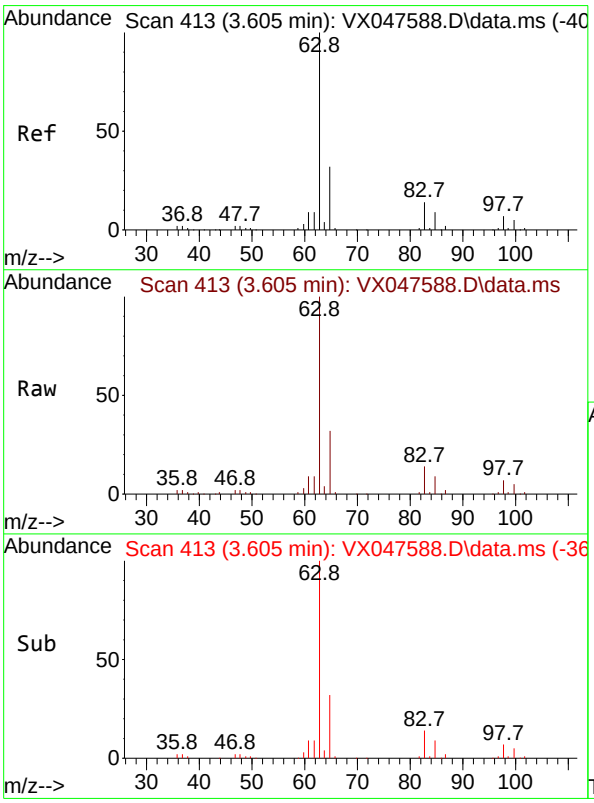
#23
Vinyl Acetate
Concen: 261.852 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1726735

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8

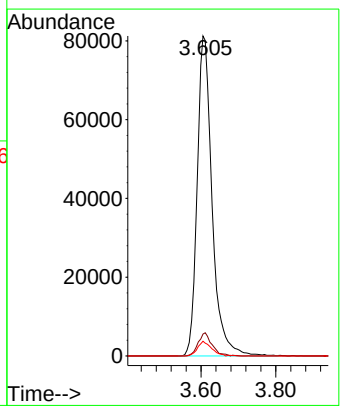


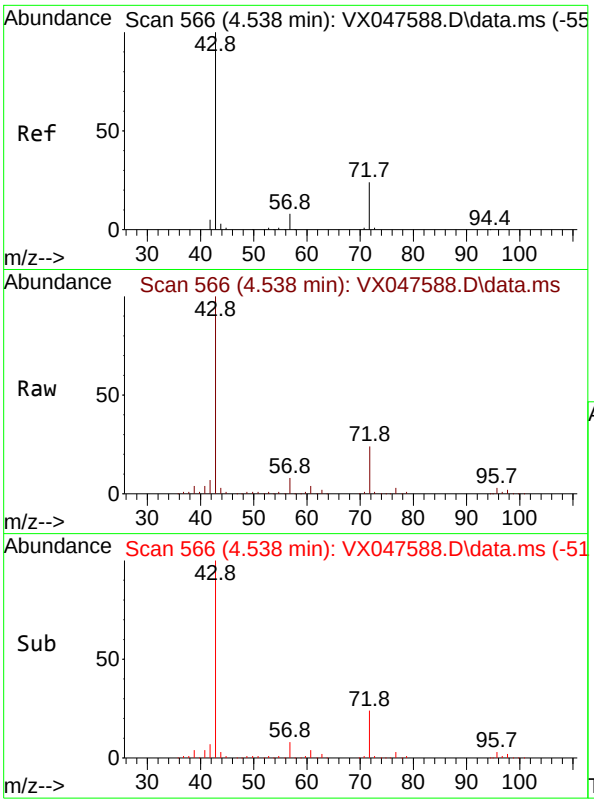


#24
1,1-Dichloroethane
Concen: 51.338 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 224824

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	4.6	2.3	6.9



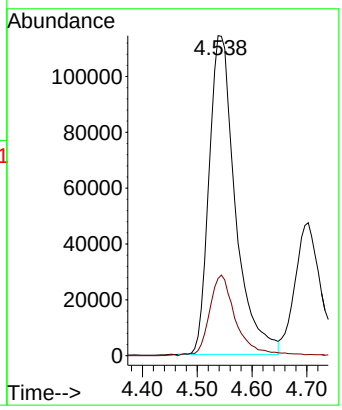


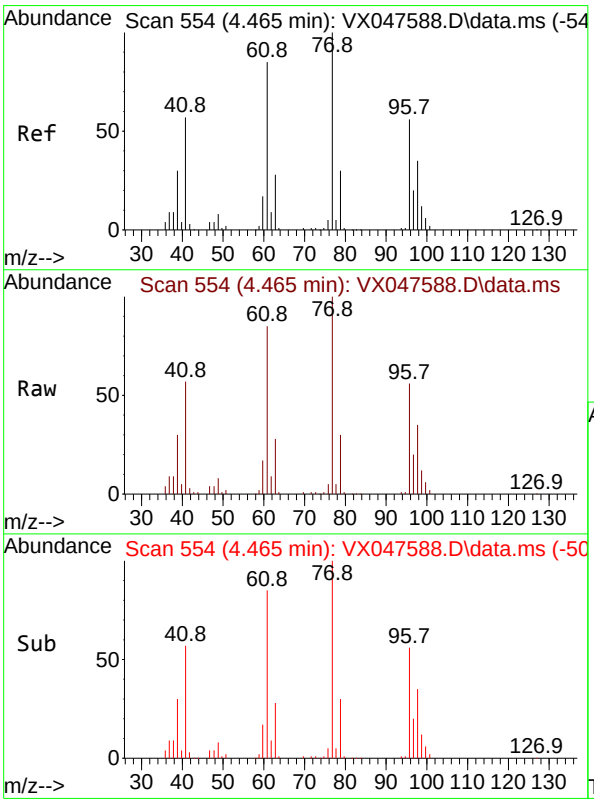
#25
2-Butanone
Concen: 254.060 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 380335

Ion	Ratio	Lower	Upper
43	100		
72	25.1	20.1	30.1

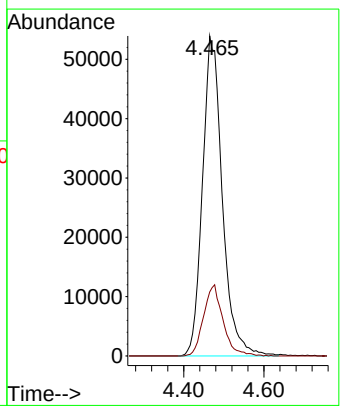


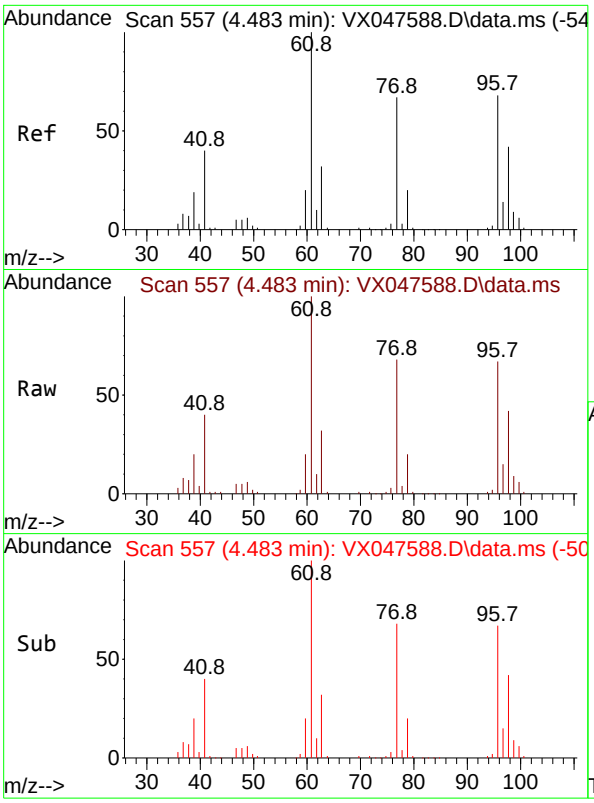


#26
2,2-Dichloropropane
Concen: 50.888 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 77 Resp: 185247

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.9	32.7



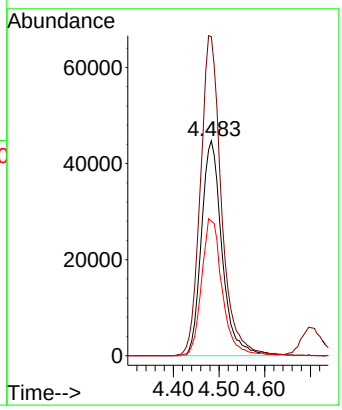


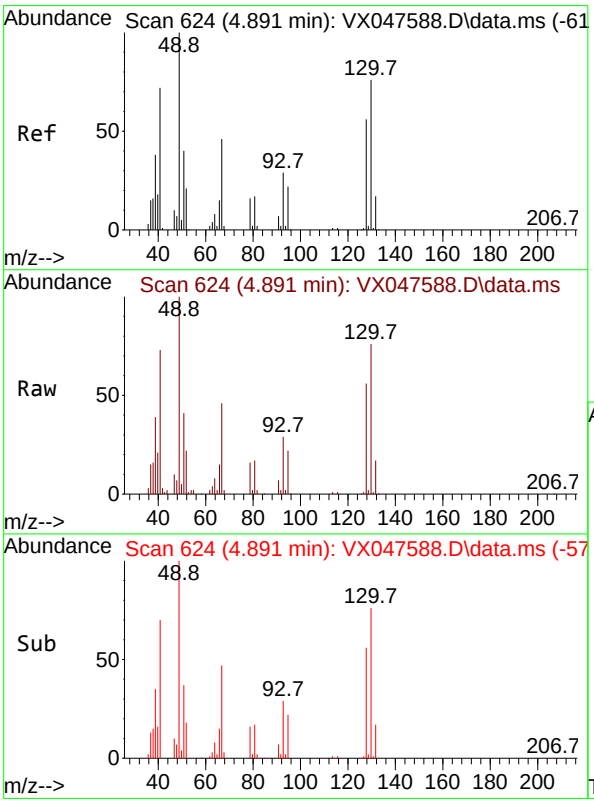
#27
cis-1,2-Dichloroethene
Concen: 51.576 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 140105

Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	303.2
98	63.9	0.0	127.8

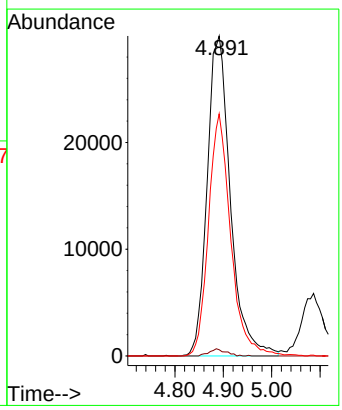


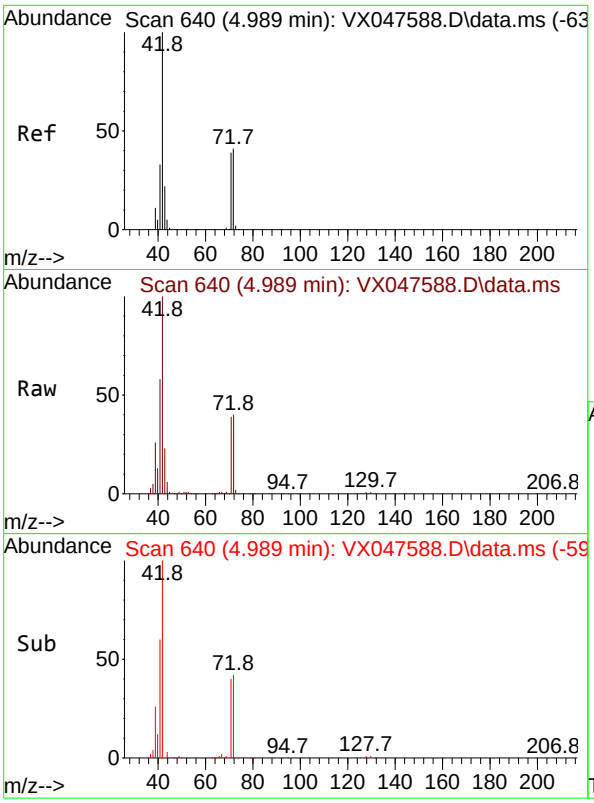


#28
Bromochloromethane
Concen: 52.301 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 49 Resp: 99991

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	72.3	57.8	86.8



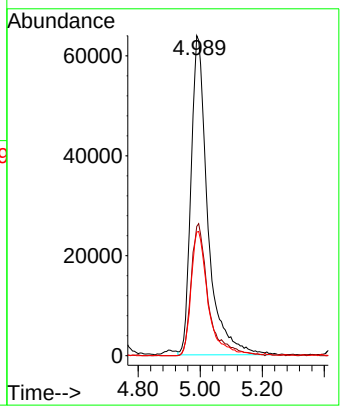


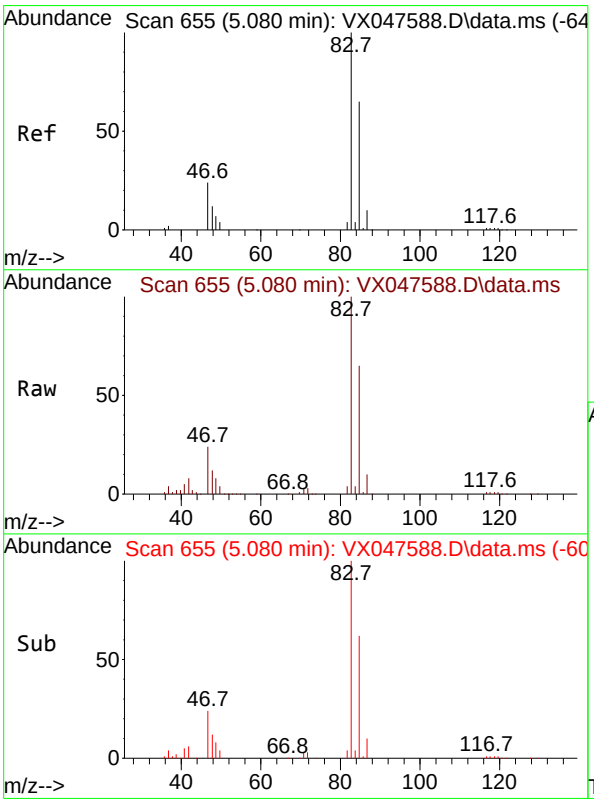
#29
Tetrahydrofuran
Concen: 265.026 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 238677

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	39.9	31.9	47.9

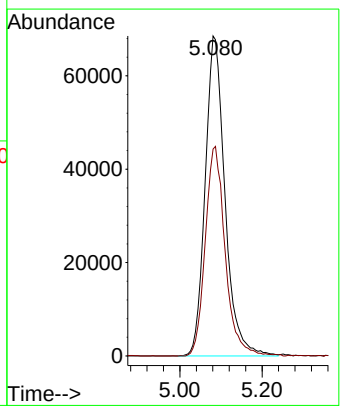


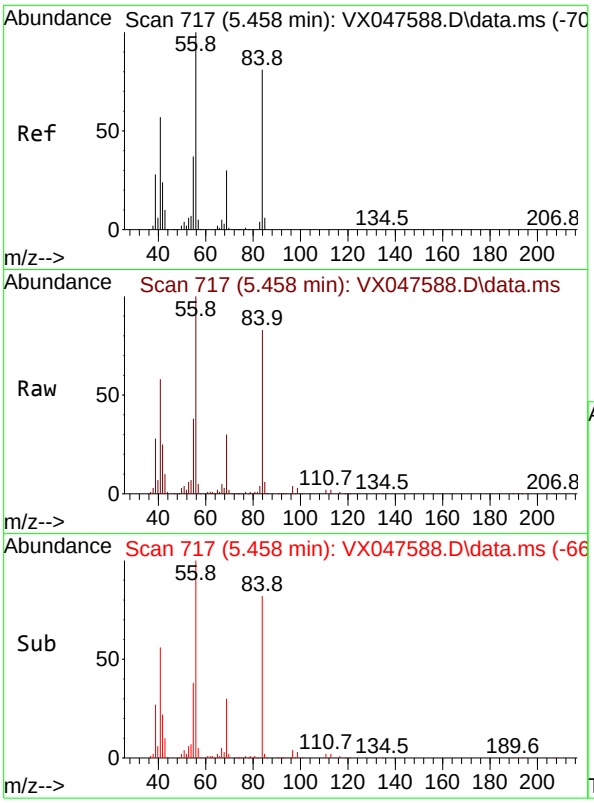


#30
Chloroform
Concen: 51.844 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 229430

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6



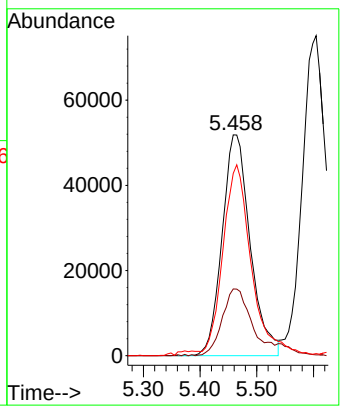


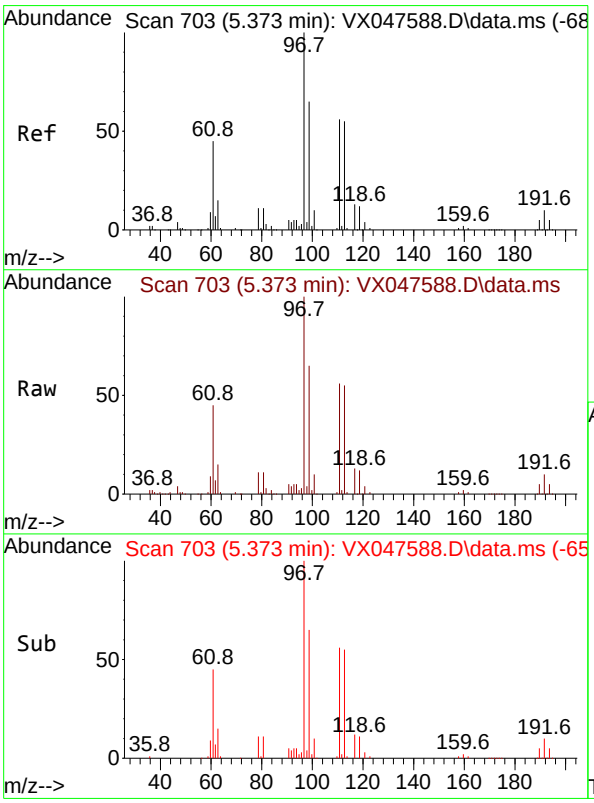
#31
Cyclohexane
Concen: 48.952 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 178546

Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.8	35.8
84	80.8	64.6	97.0

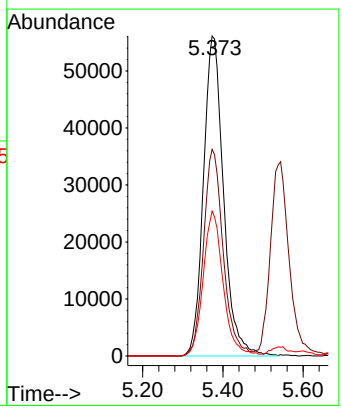


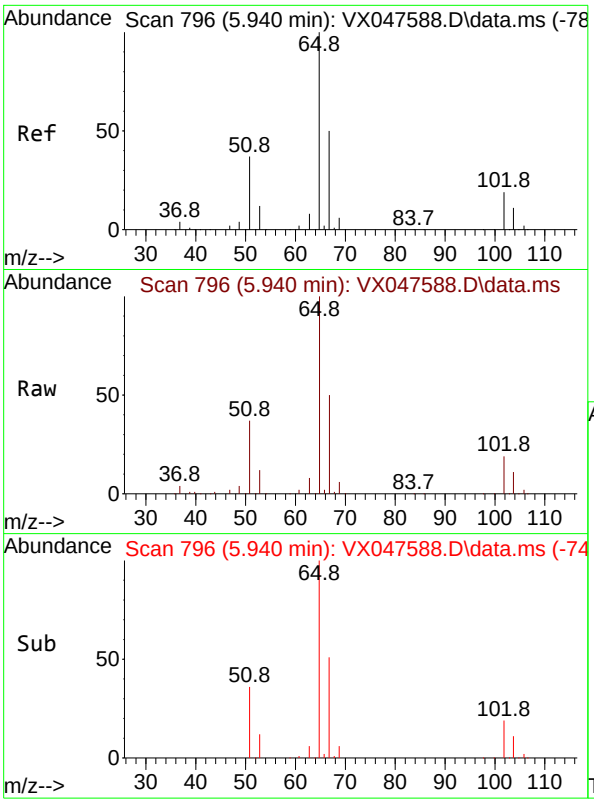


#32
1,1,1-Trichloroethane
Concen: 52.058 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 195407

Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.6	76.0
61	44.8	35.8	53.8



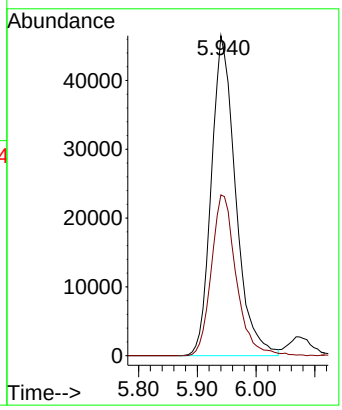


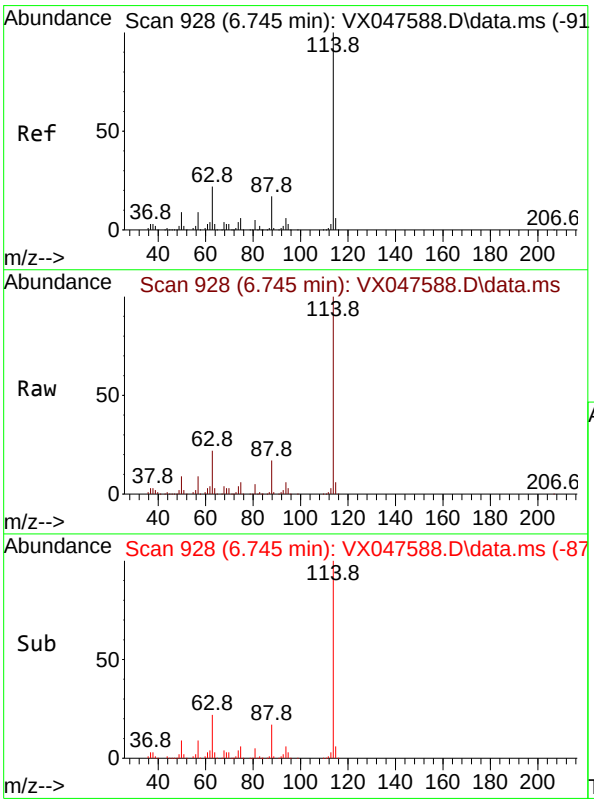
#33
1,2-Dichloroethane-d4
Concen: 48.404 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 133606

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.0

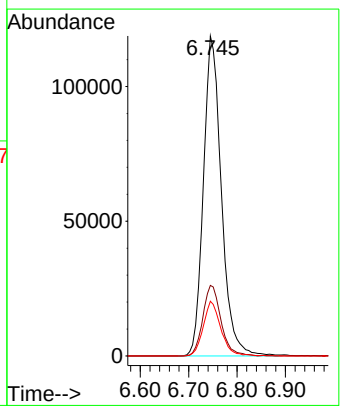


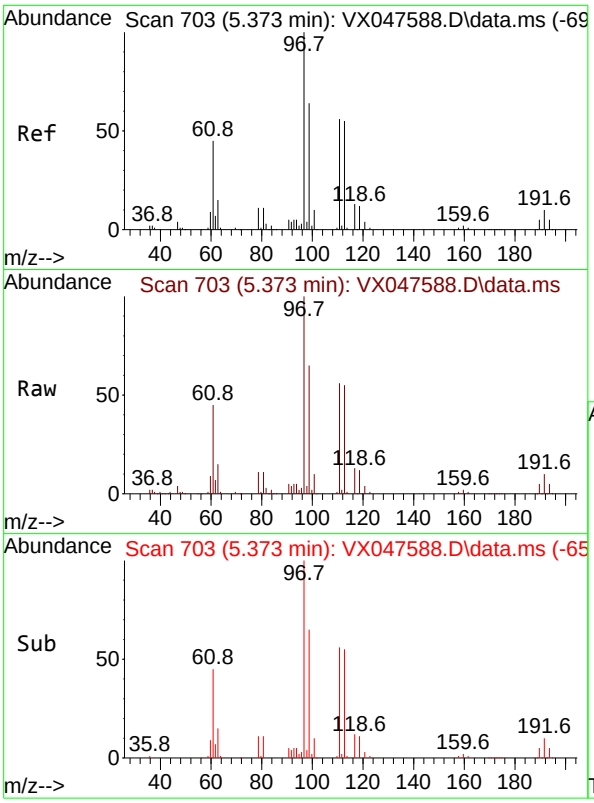


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:114 Resp: 307383

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	17.1	0.0	34.2



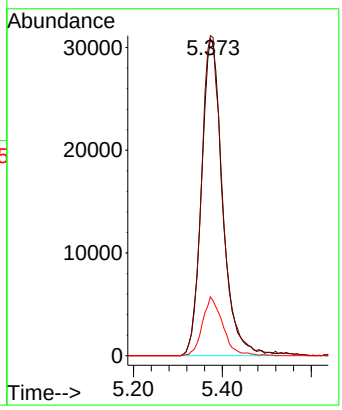


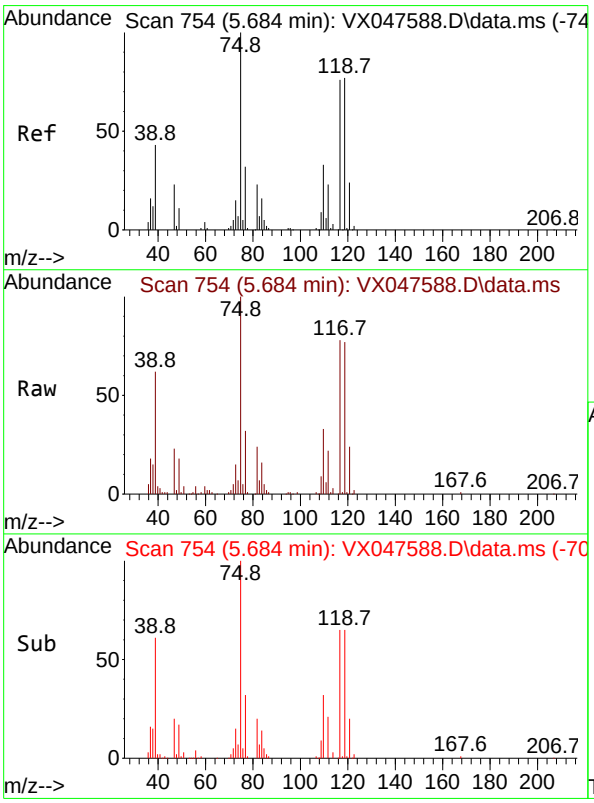
#35
Dibromofluoromethane
Concen: 49.298 ug/l
RT: 5.373 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 101627

Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.9	121.3
192	17.8	14.2	21.4

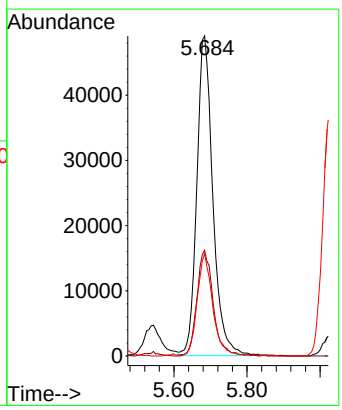


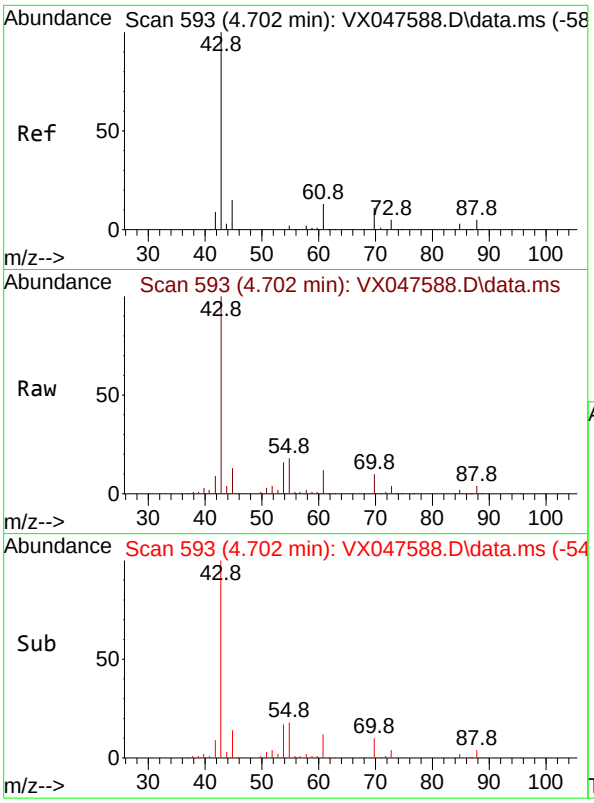


#36
1,1-Dichloropropene
Concen: 49.729 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 149800

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.7	50.1
77	30.4	24.3	36.5



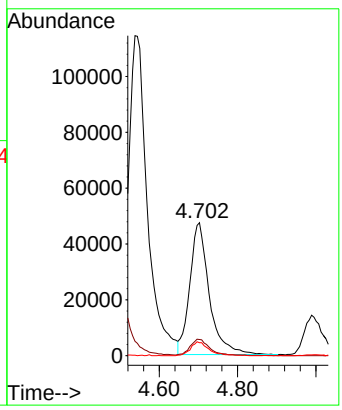


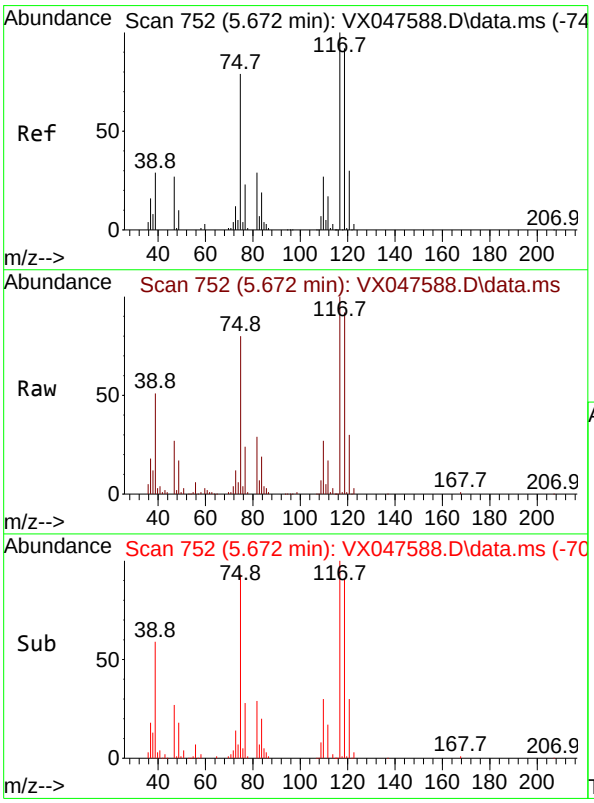
#37
Ethyl Acetate
Concen: 50.687 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 163482

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.9	7.9	11.9

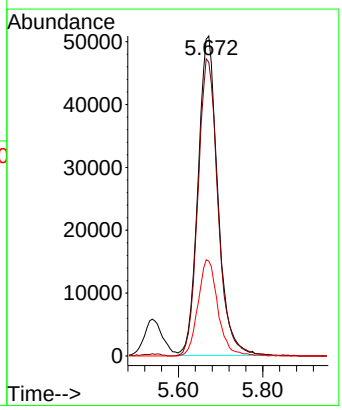


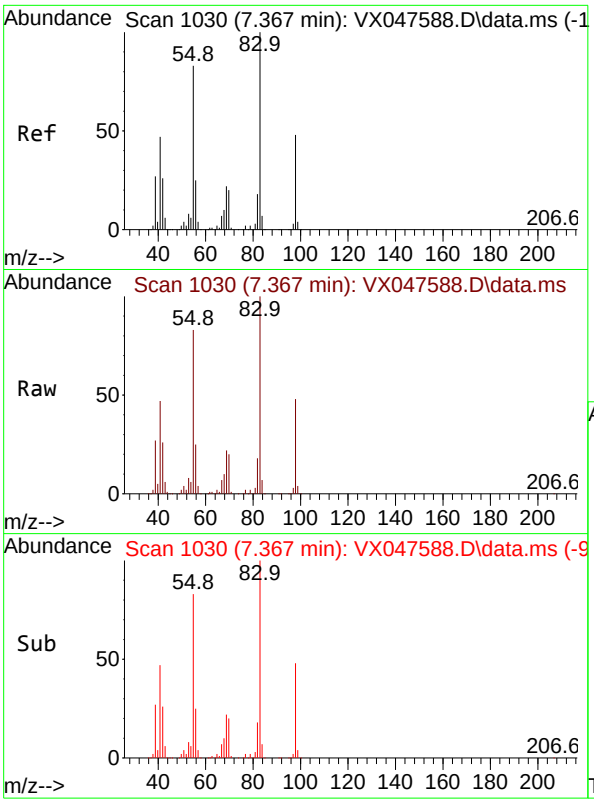


#38
Carbon Tetrachloride
Concen: 50.637 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 165730

Ion	Ratio	Lower	Upper
117	100		
119	91.8	73.4	110.2
121	29.7	23.8	35.6



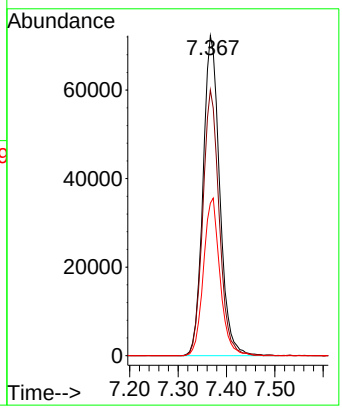


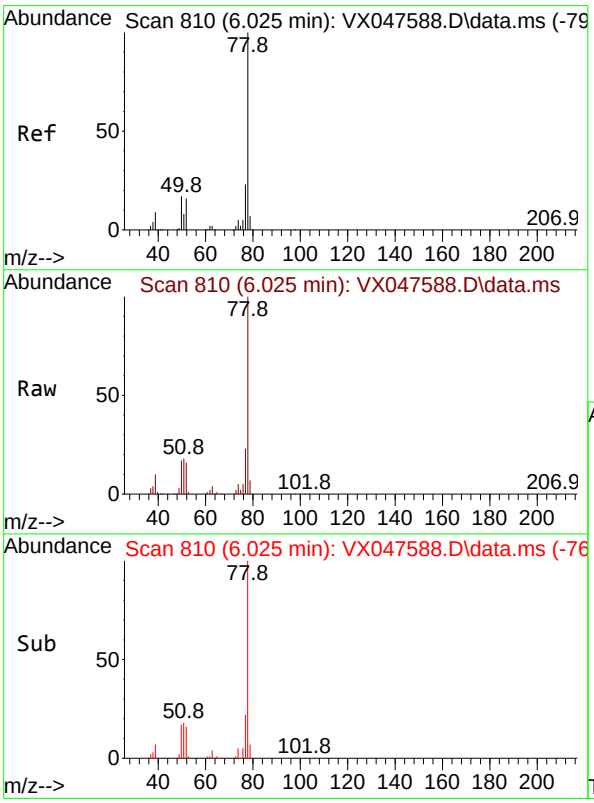
#39
Methylcyclohexane
Concen: 50.773 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 173610

Ion	Ratio	Lower	Upper
83	100		
55	83.0	66.4	99.6
98	47.6	38.1	57.1

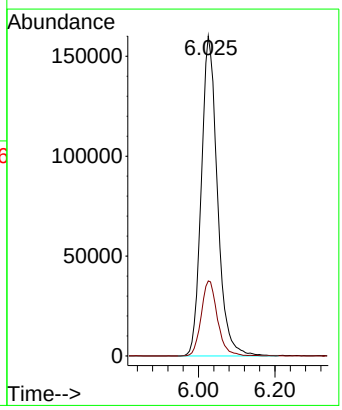


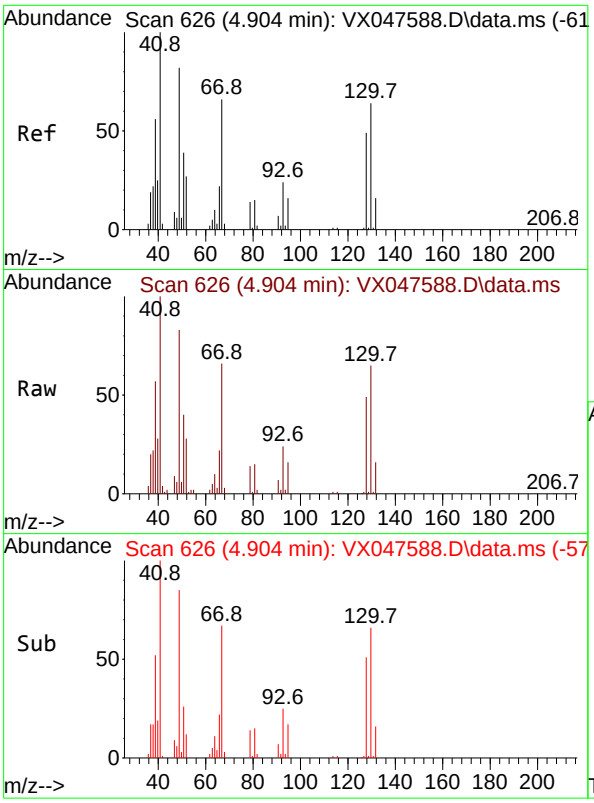


#40
Benzene
Concen: 51.167 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 78 Resp: 468136

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



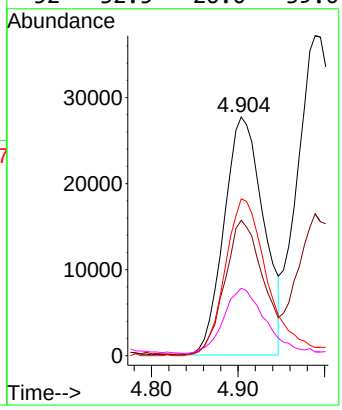


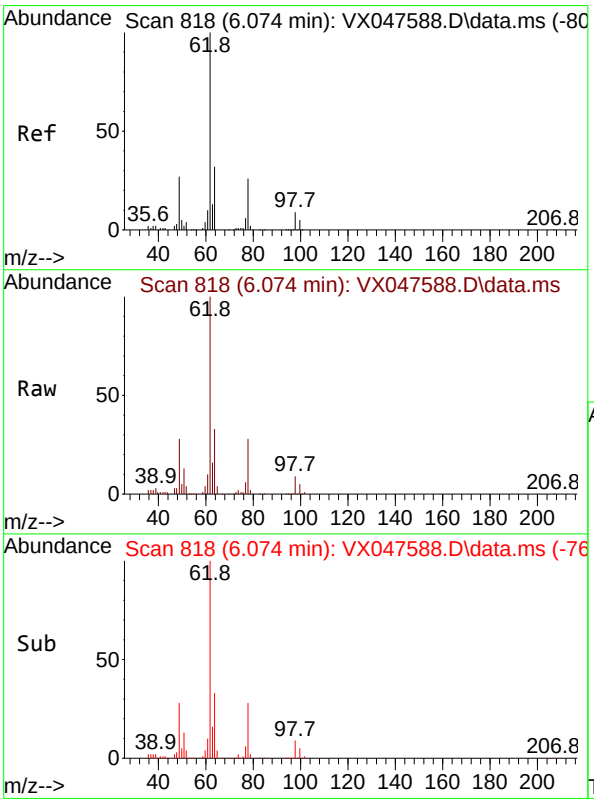
#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 87761

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	73.2	58.6	87.8
52	32.5	26.0	39.0

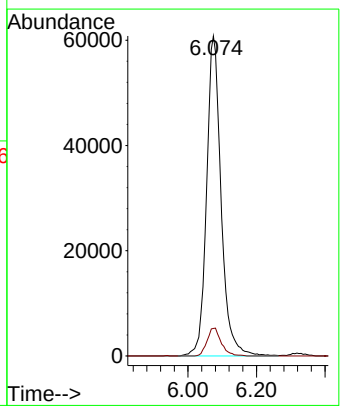


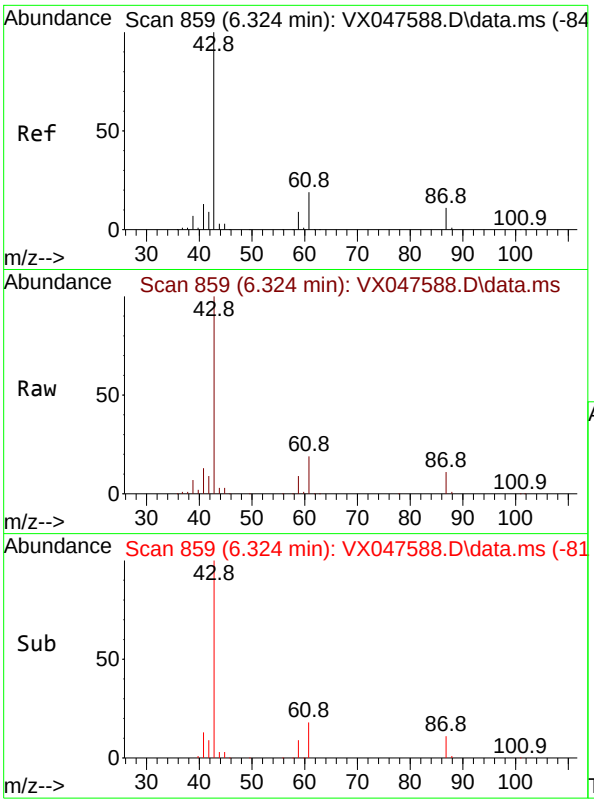


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 179037

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0



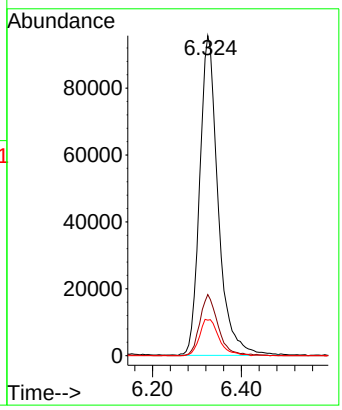


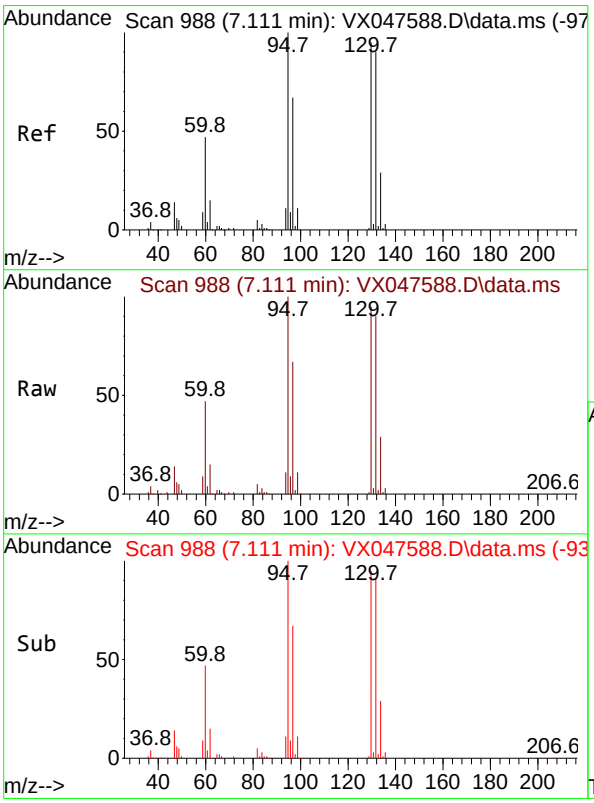
#43
Isopropyl Acetate
Concen: 52.096 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 275572

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.0	9.6	14.4

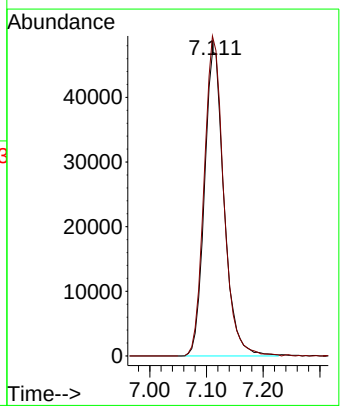


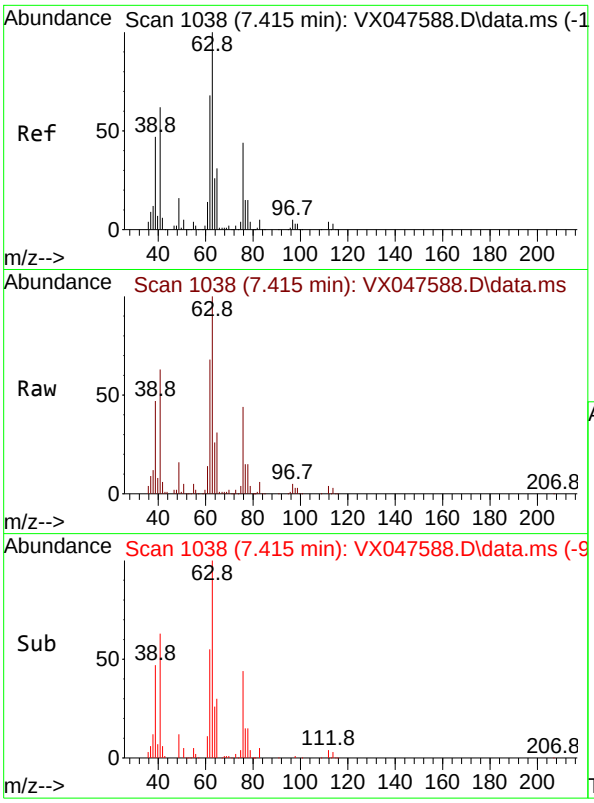


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:130 Resp: 113832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	210.8



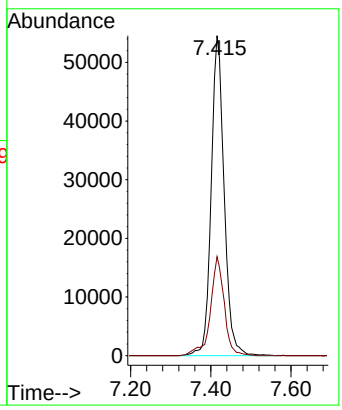


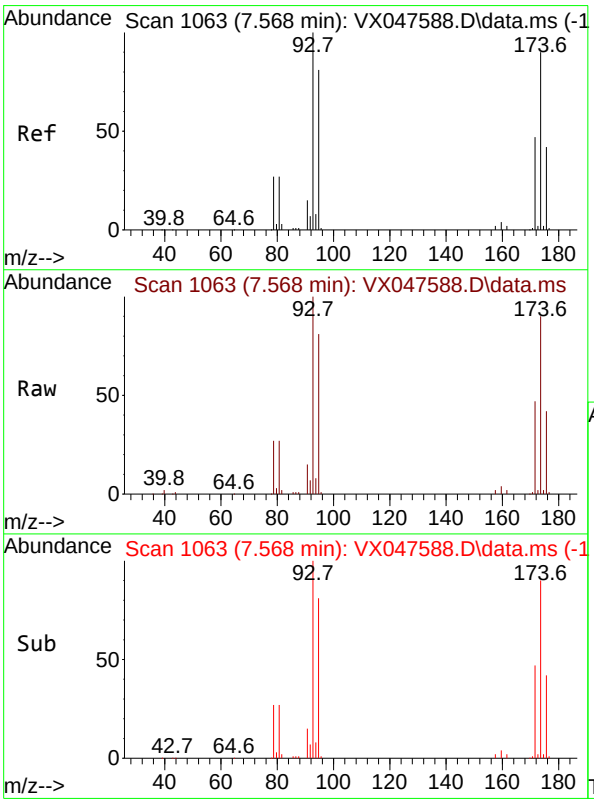
#45
1,2-Dichloropropane
Concen: 52.122 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 122109

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1

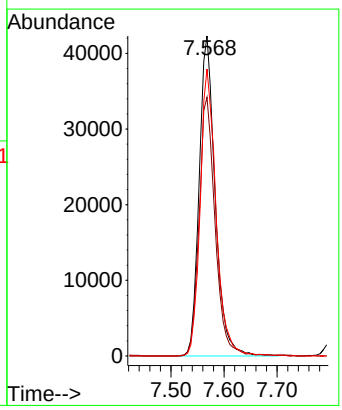


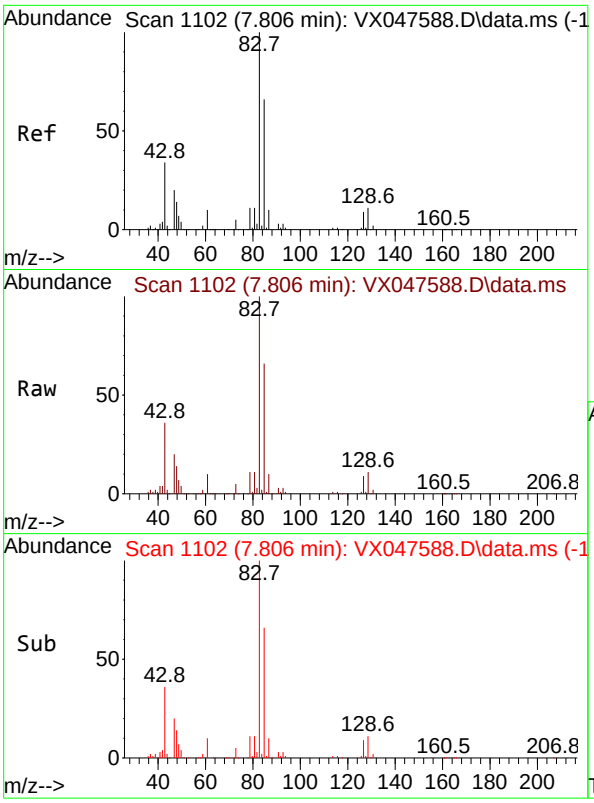


#46
Dibromomethane
Concen: 51.914 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 93 Resp: 88505

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.0	97.6
174	89.5	71.6	107.4



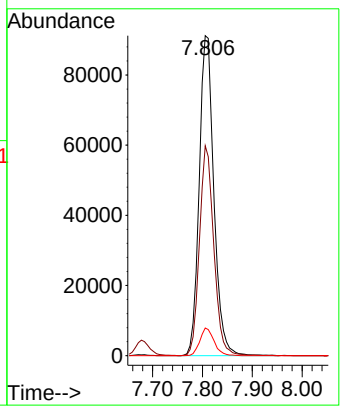


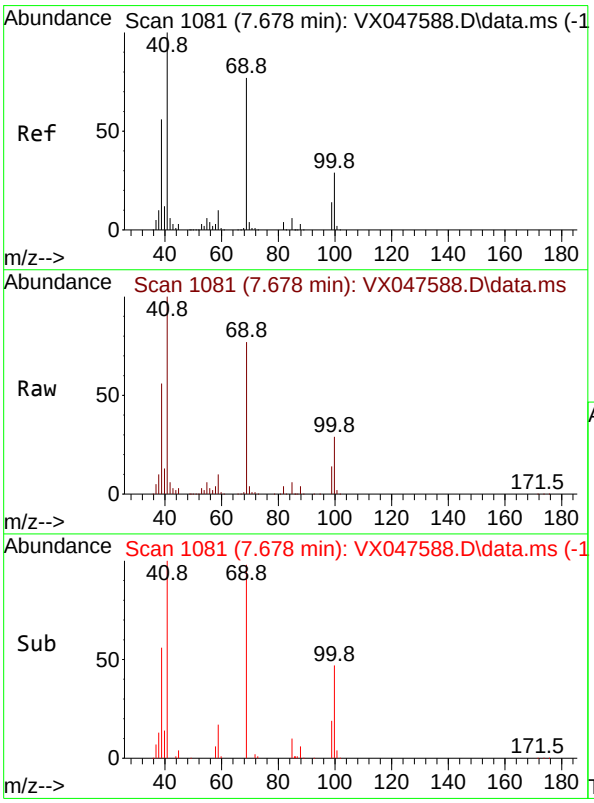
#47
Bromodichloromethane
Concen: 53.025 ug/l
RT: 7.806 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 186540

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
127	8.6	6.9	10.3

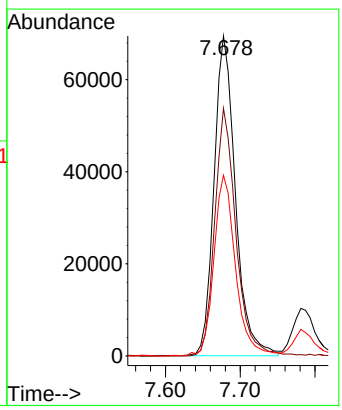


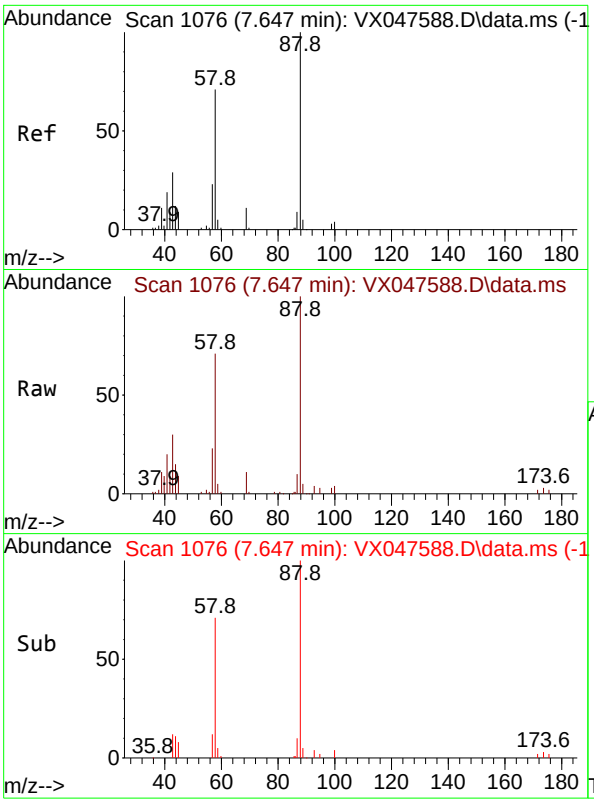


#48
Methyl methacrylate
Concen: 52.438 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 138167

Ion	Ratio	Lower	Upper
41	100		
69	76.8	61.4	92.2
39	57.2	45.8	68.6



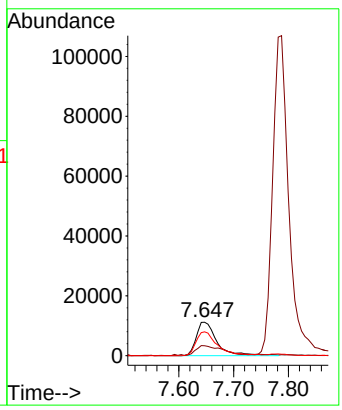


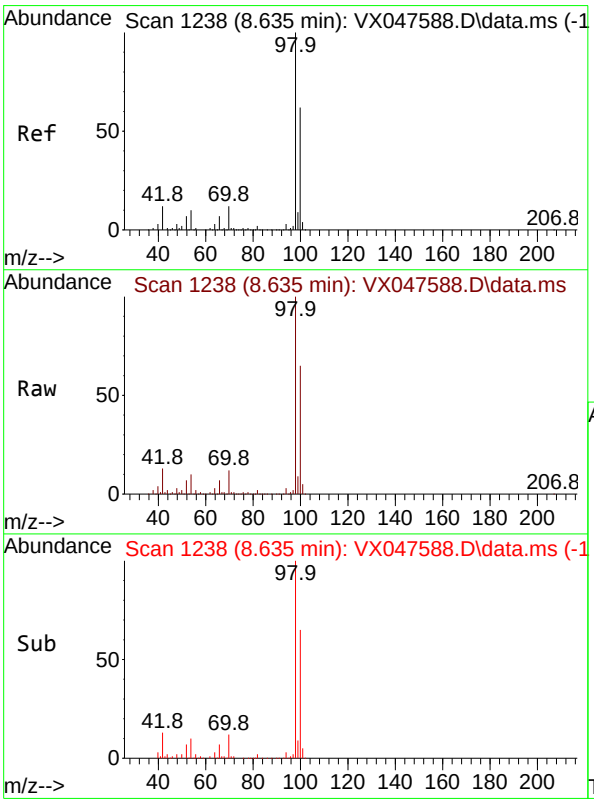
#49
1,4-Dioxane
Concen: 1107.698 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 29496

Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.2	45.2
58	74.4	59.5	89.3

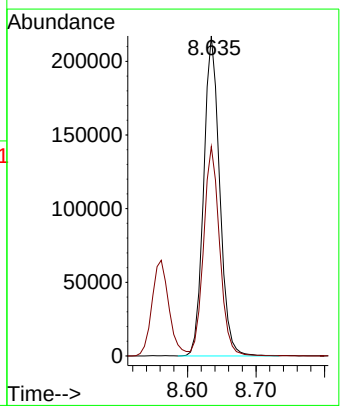


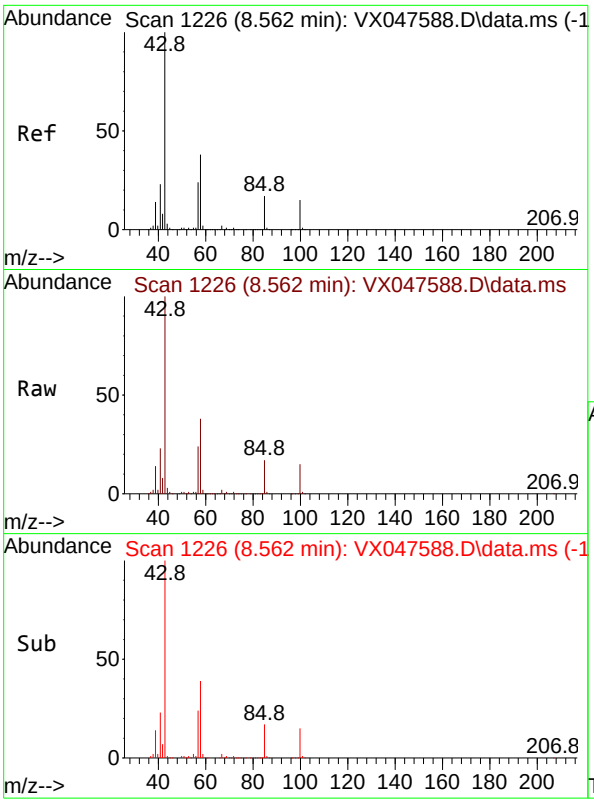


#50
Toluene-d8
Concen: 49.428 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 98 Resp: 352578

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4



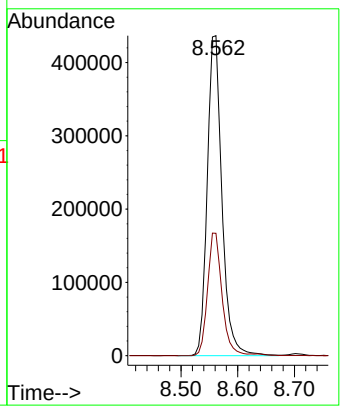


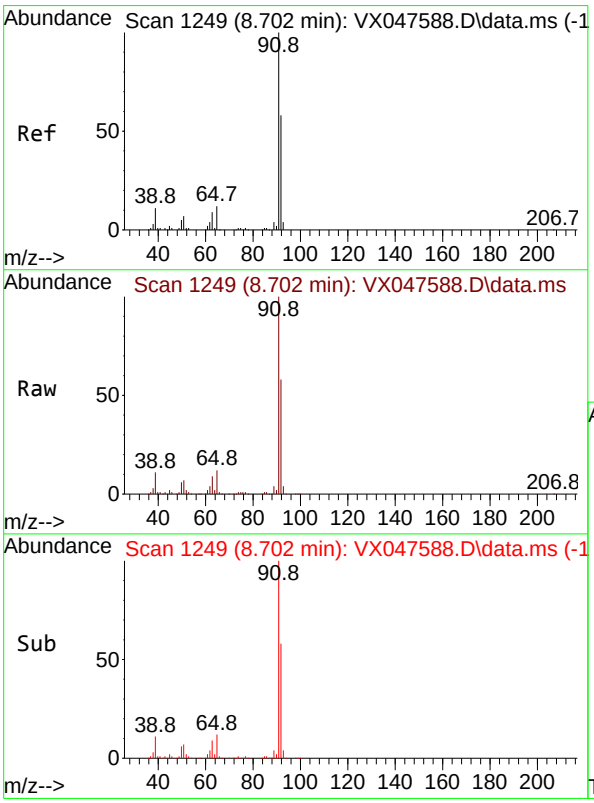
#51
4-Methyl-2-Pentanone
Concen: 267.650 ug/l
RT: 8.562 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 784978

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

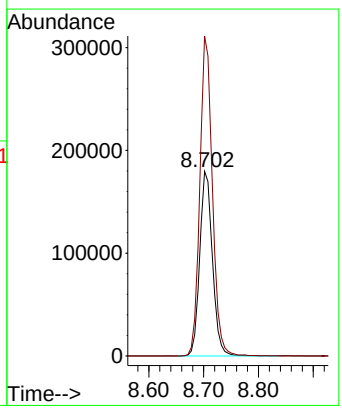


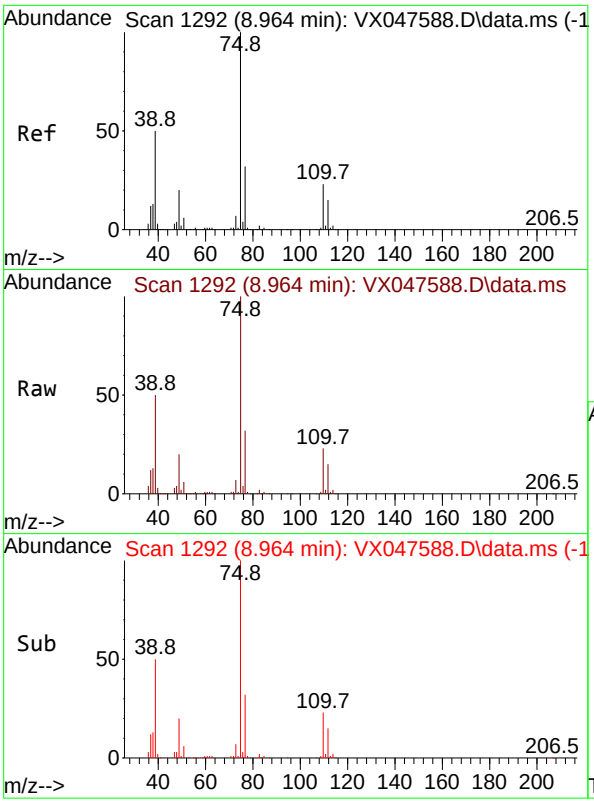


#52
Toluene
Concen: 51.244 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 92 Resp: 288853

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.1	205.7



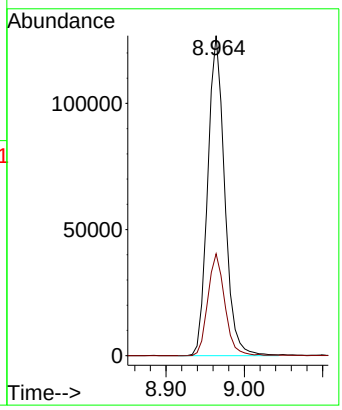


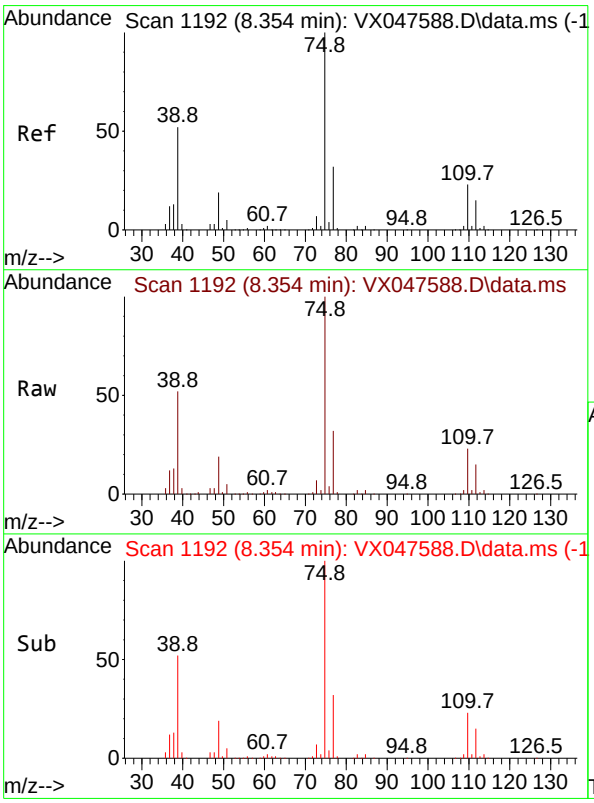
#53
t-1,3-Dichloropropene
Concen: 53.027 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 190282

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2

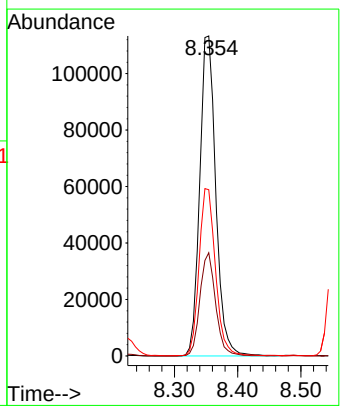


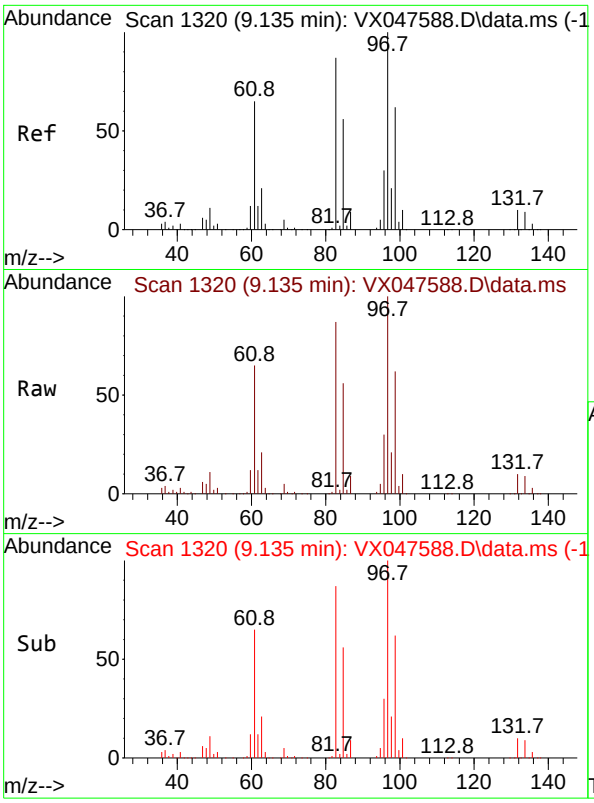


#54
cis-1,3-Dichloropropene
Concen: 52.369 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 200859

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6
39	51.8	41.4	62.2



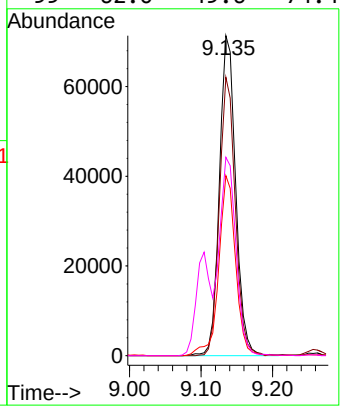


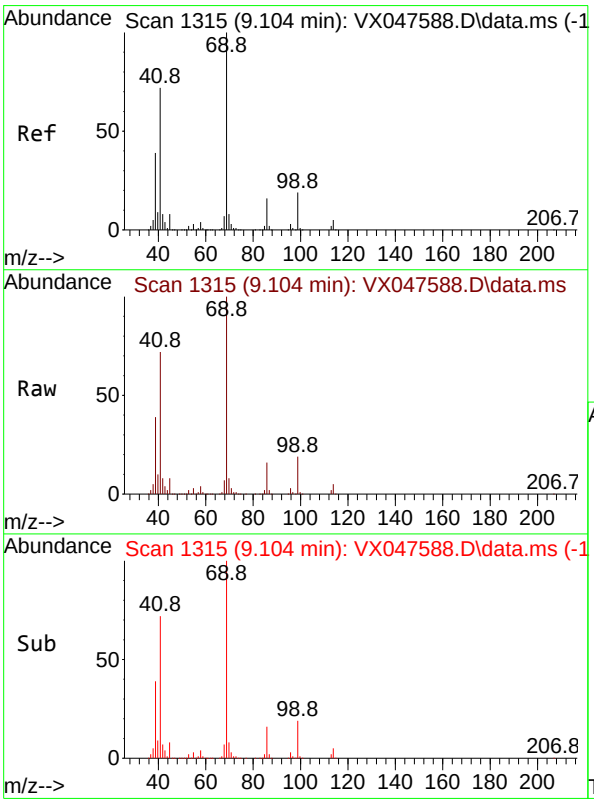
#55
1,1,2-Trichloroethane
Concen: 51.915 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 112837

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.6	104.4
85	56.3	45.0	67.6
99	62.0	49.6	74.4

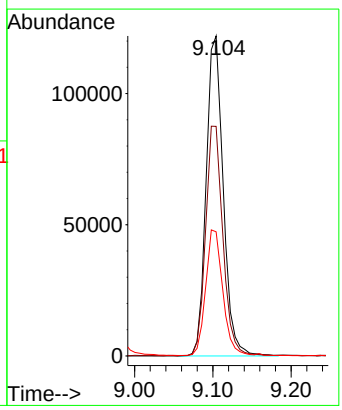


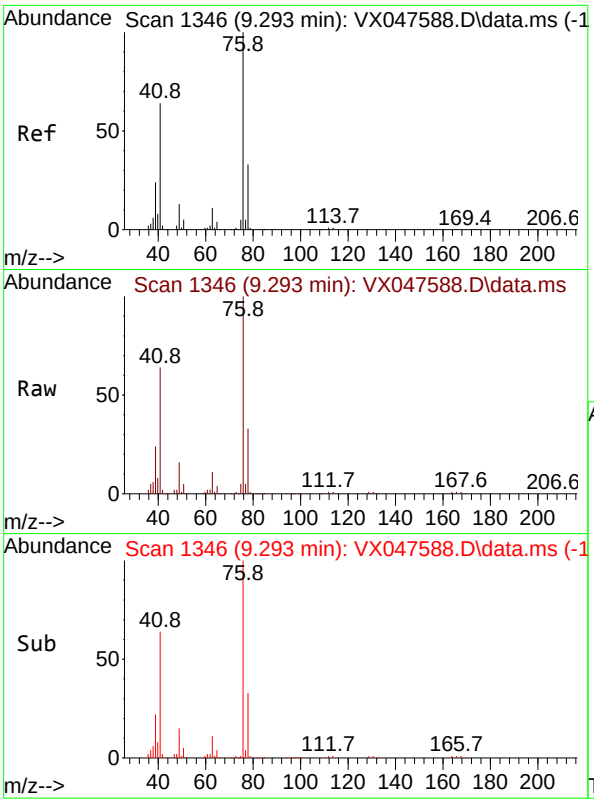


#56
Ethyl methacrylate
Concen: 53.930 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 69 Resp: 184087

Ion	Ratio	Lower	Upper
69	100		
41	73.2	58.6	87.8
39	39.4	31.5	47.3



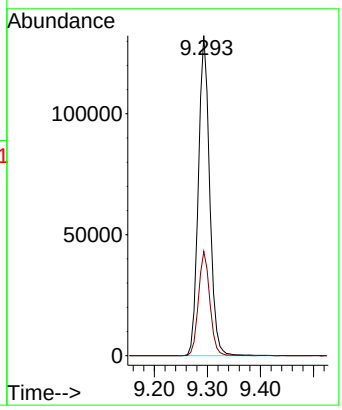


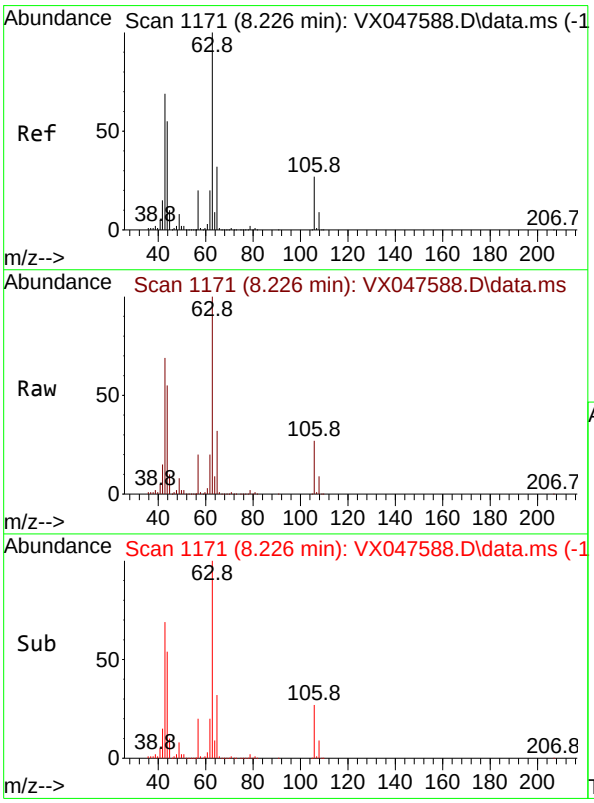
#57
1,3-Dichloropropane
Concen: 52.492 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 195989

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4

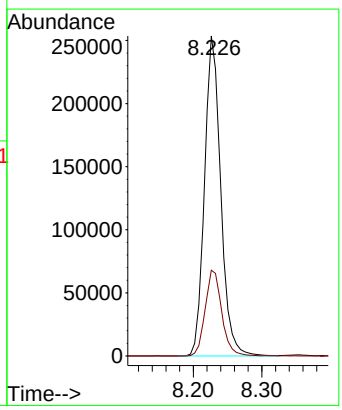


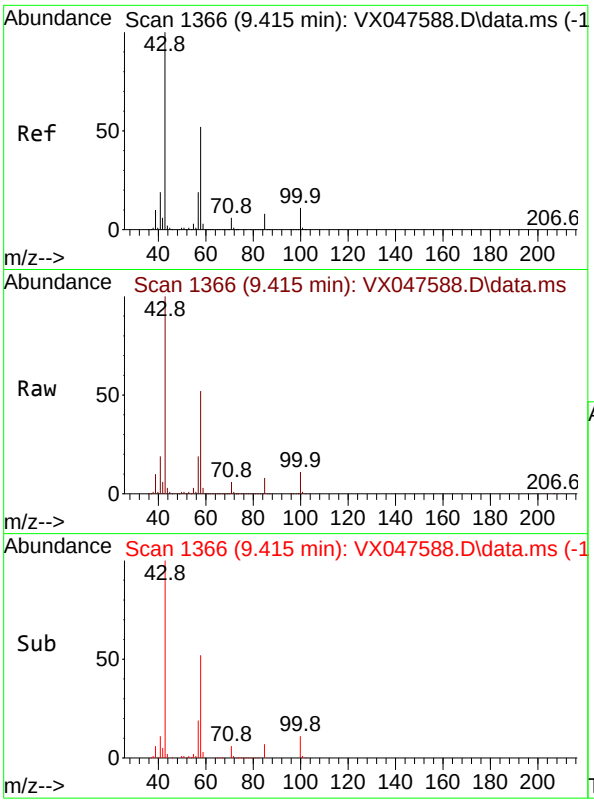


#58
2-Chloroethyl Vinyl ether
Concen: 256.309 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 418707

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9



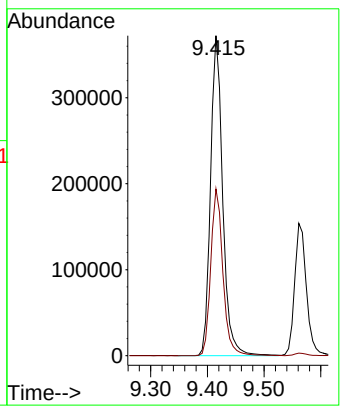


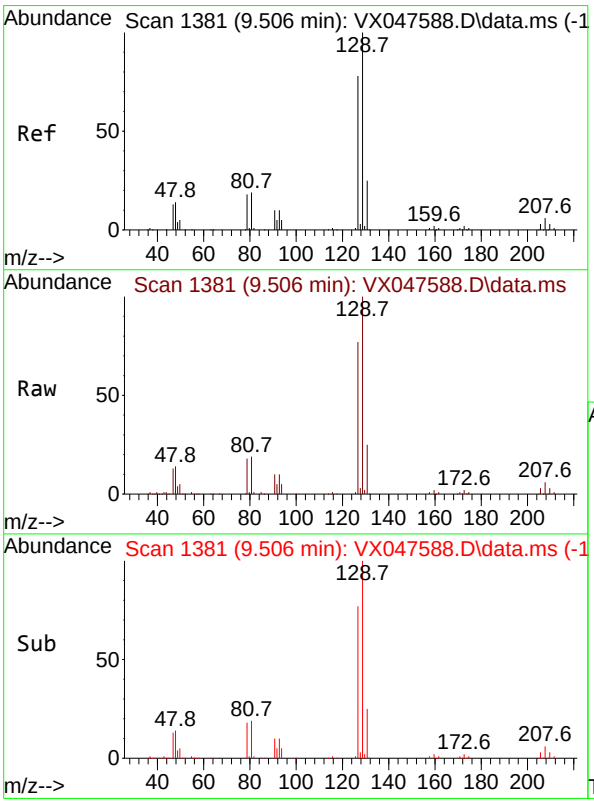
#59
2-Hexanone
Concen: 262.683 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 553313

Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.1	78.2

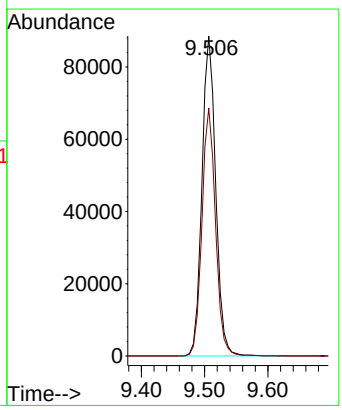


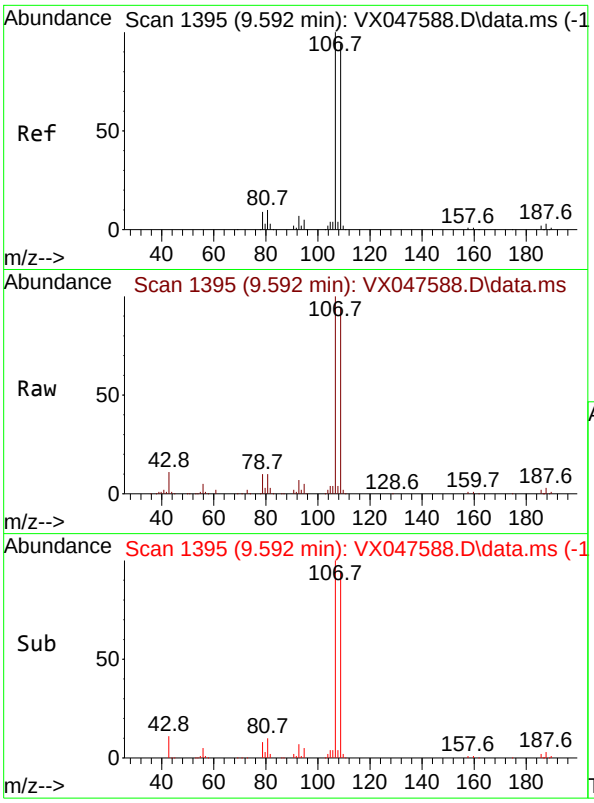


#60
Dibromochloromethane
Concen: 53.401 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:129 Resp: 133737

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.4	115.2



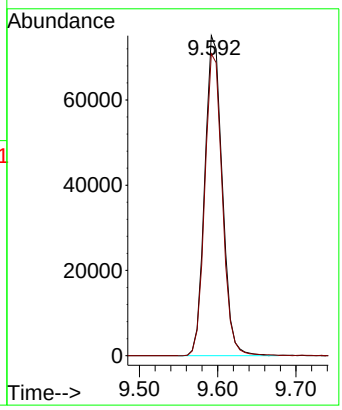


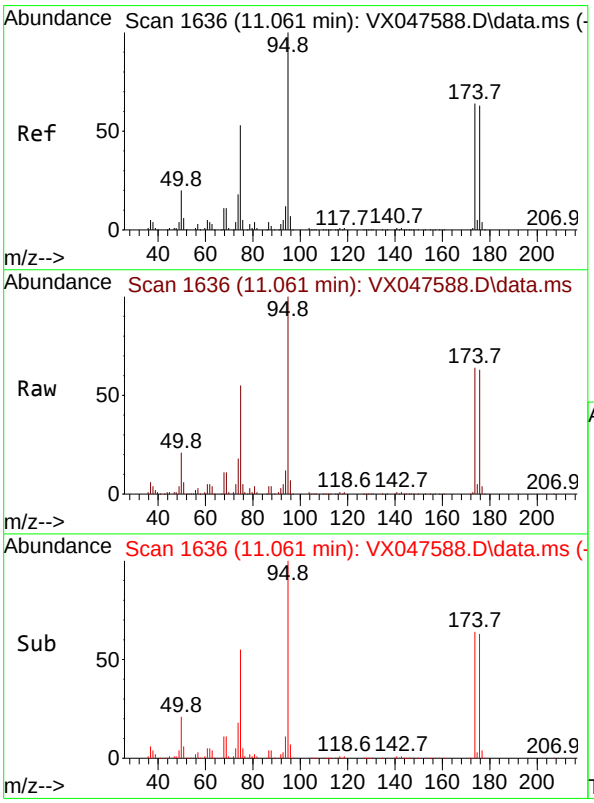
#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 116462

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9

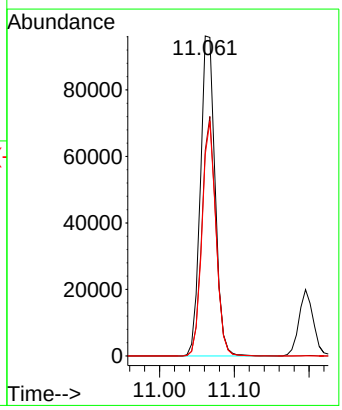


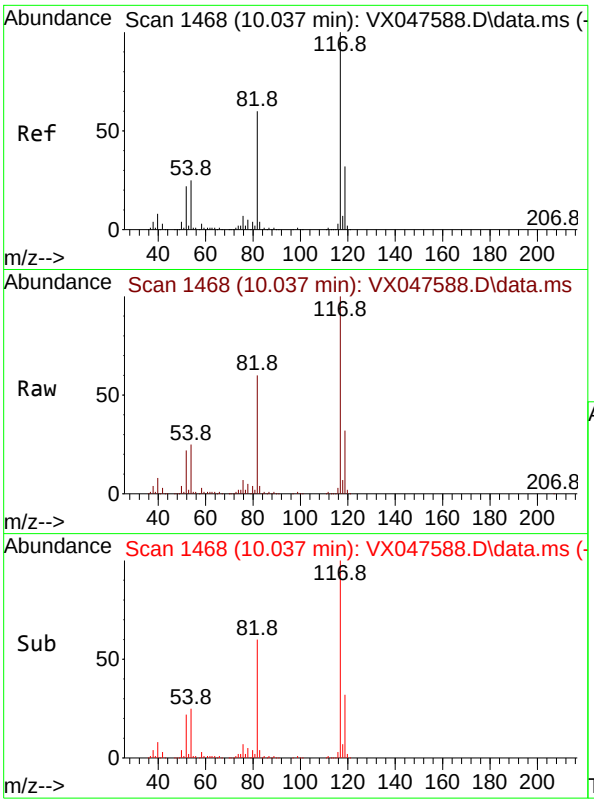


#62
4-Bromofluorobenzene
Concen: 48.471 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 95 Resp: 131217

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.6
176	69.2	0.0	138.4



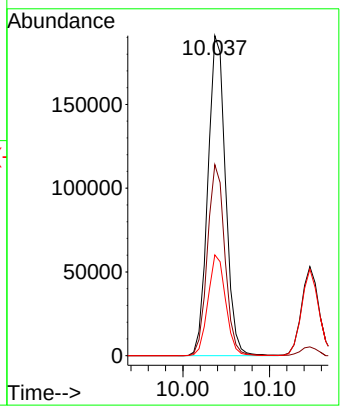


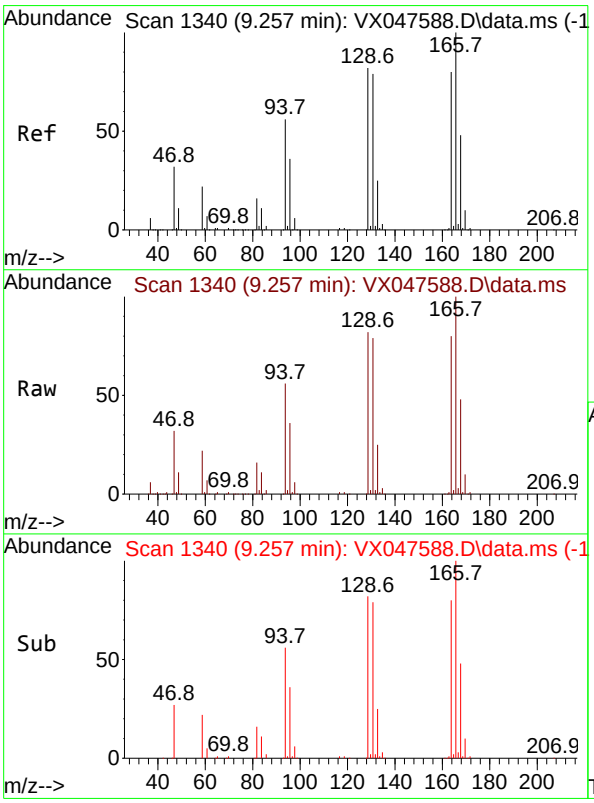
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 270040

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.8	71.6
119	31.5	25.2	37.8

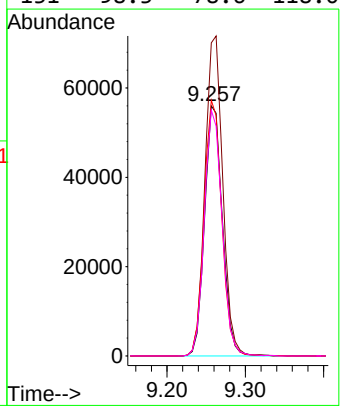


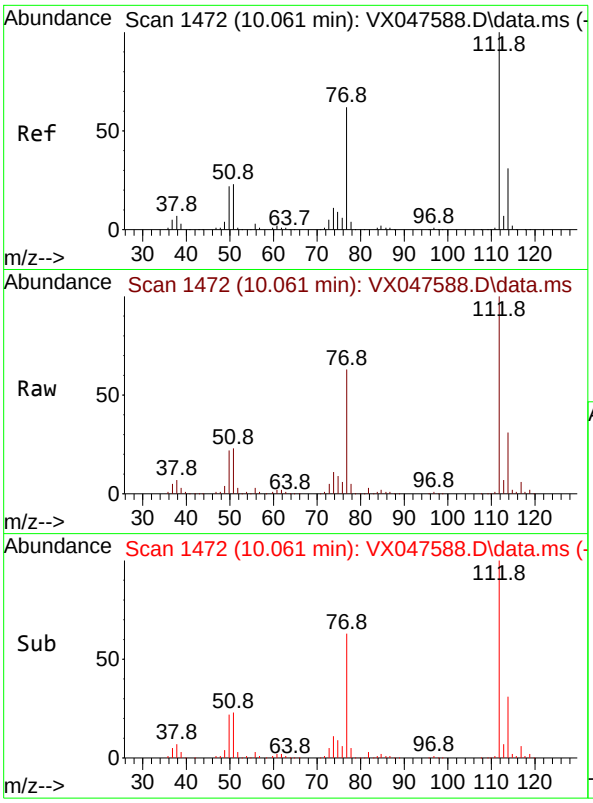


#64
Tetrachloroethene
Concen: 50.074 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:164 Resp: 88149

Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.2	150.2
129	102.2	81.8	122.6
131	98.3	78.6	118.0



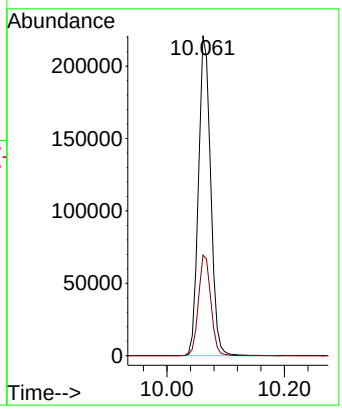


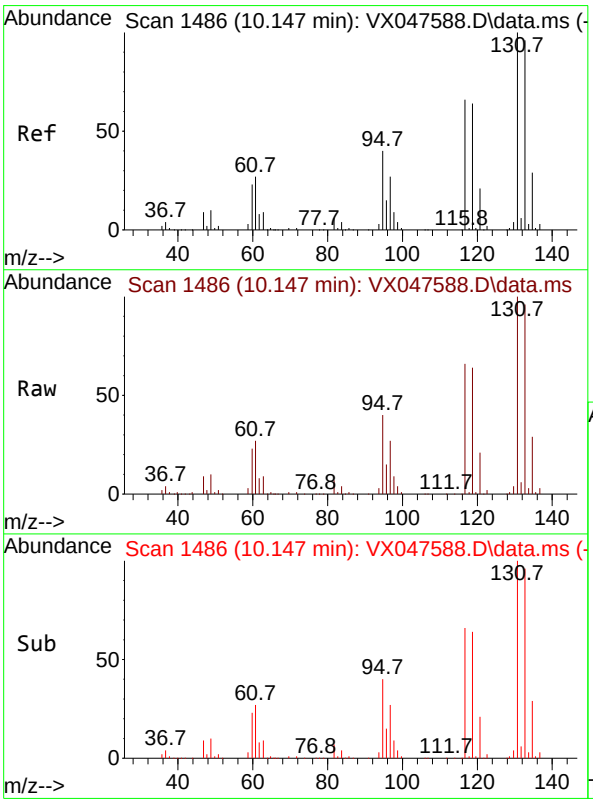
#65
Chlorobenzene
Concen: 51.833 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 317982

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

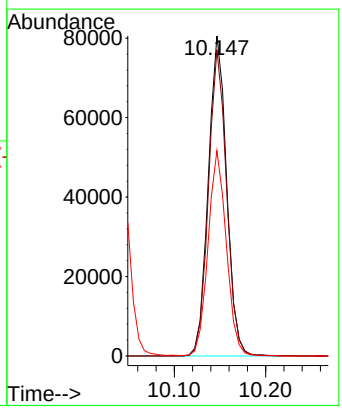


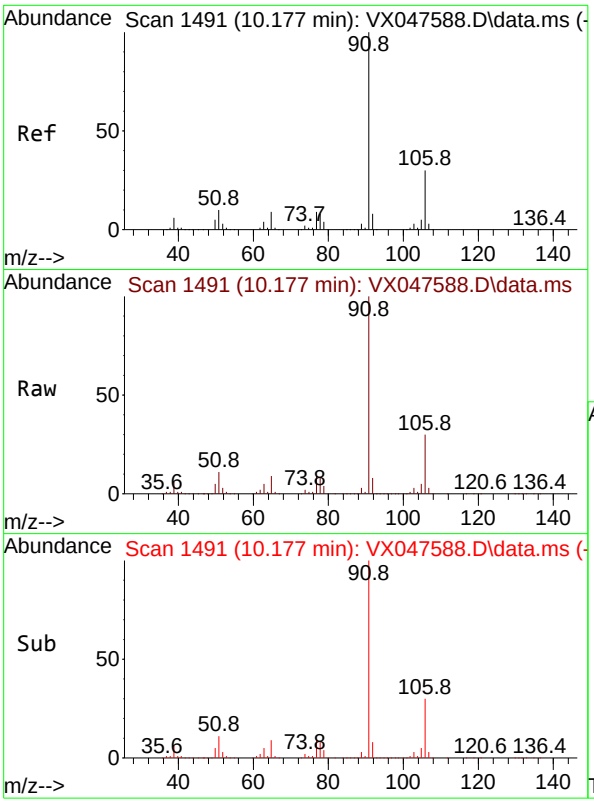


#66
1,1,1,2-Tetrachloroethane
Concen: 52.835 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:131 Resp: 111849

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	64.0	32.0	96.0



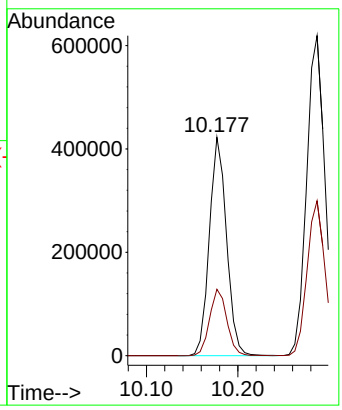


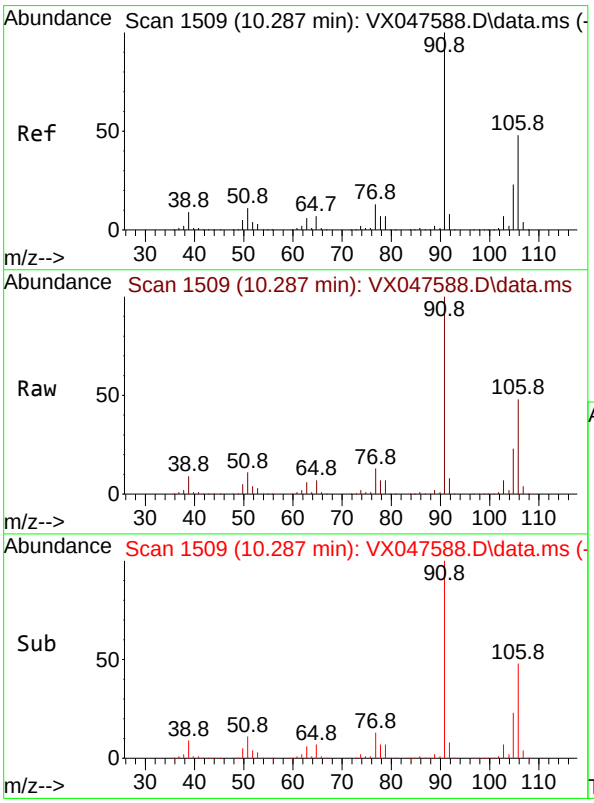
#67
Ethyl Benzene
Concen: 52.017 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 550610

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

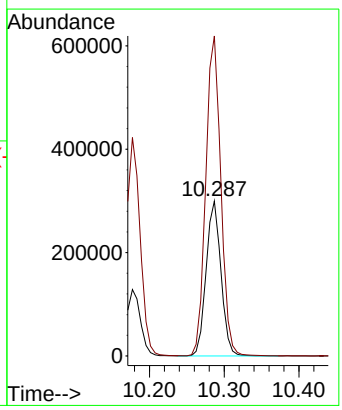


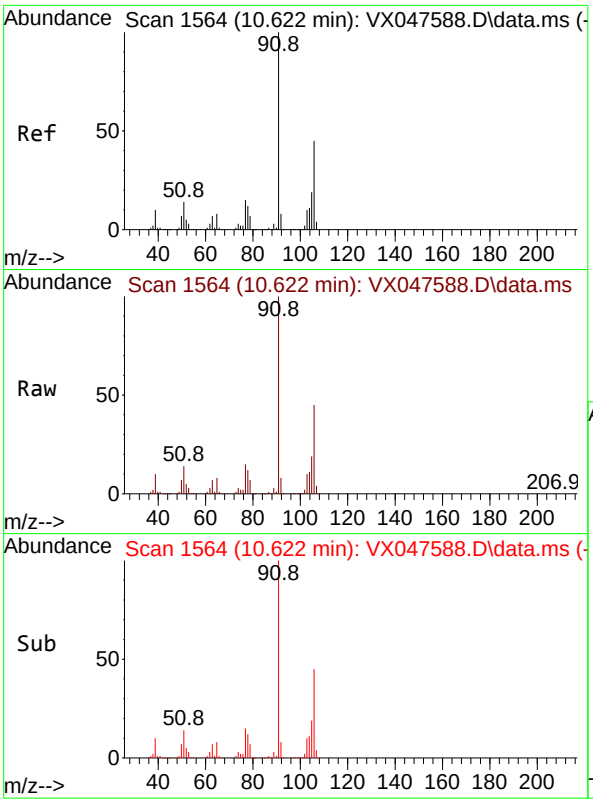


#68
m/p-Xylenes
Concen: 104.809 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 412932

Ion	Ratio	Lower	Upper
106	100		
91	209.8	167.8	251.8



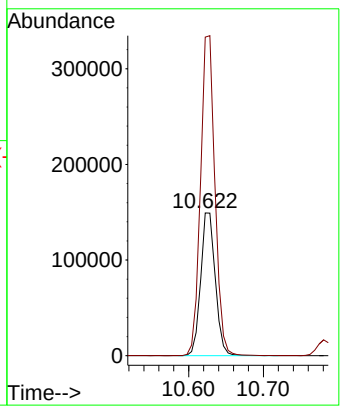


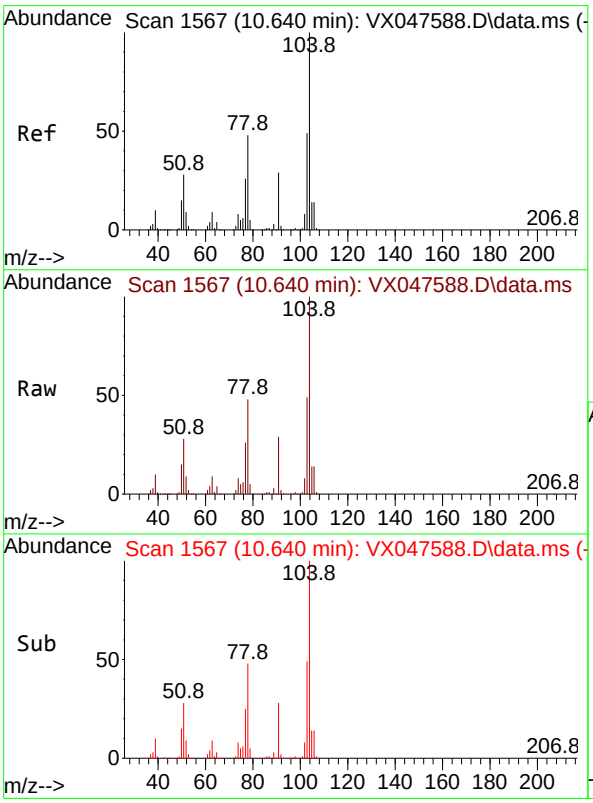
#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 202291

Ion	Ratio	Lower	Upper
106	100		
91	222.3	111.1	333.4

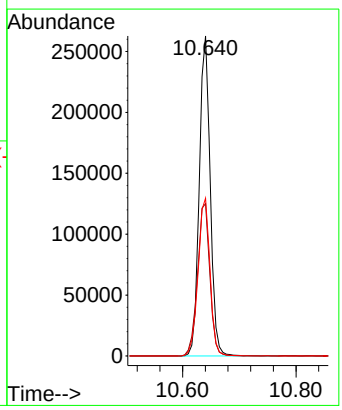


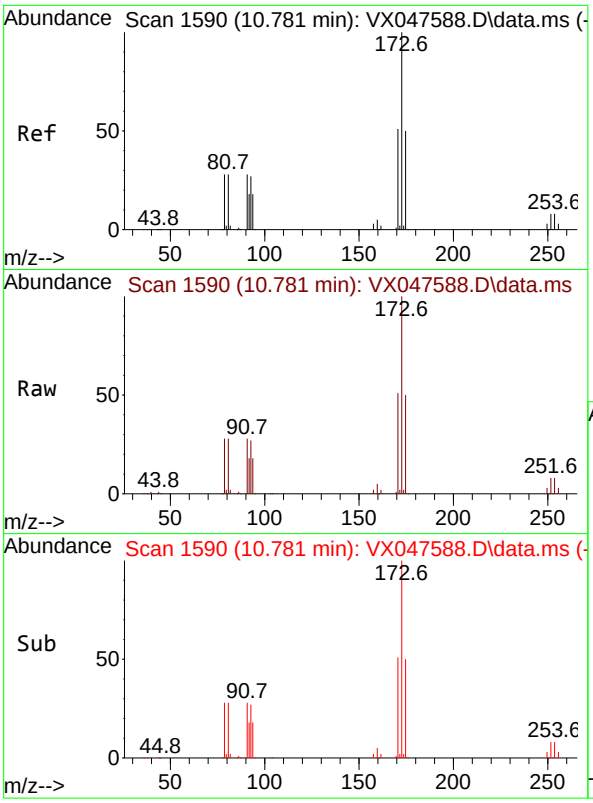


#70
Styrene
Concen: 52.515 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:104 Resp: 350654

Ion	Ratio	Lower	Upper
104	100		
78	53.9	43.1	64.7
103	53.9	43.1	64.7



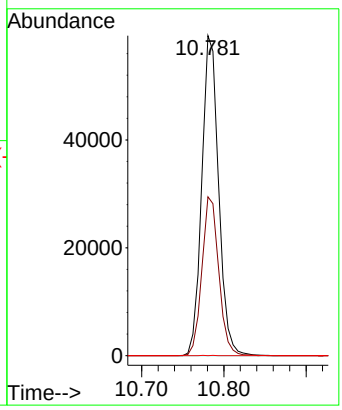


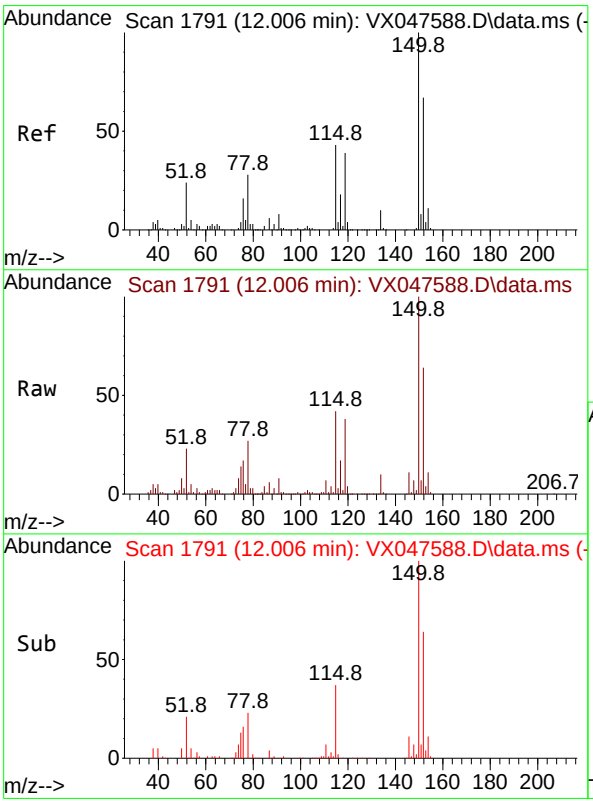
#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 84485

Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.9	74.6
254	0.1	0.1	0.1#

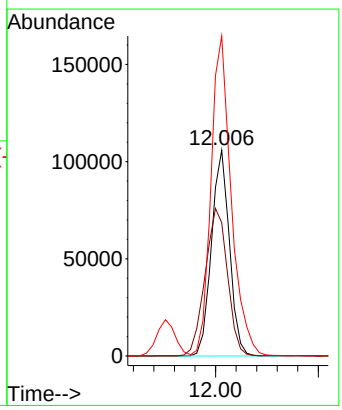


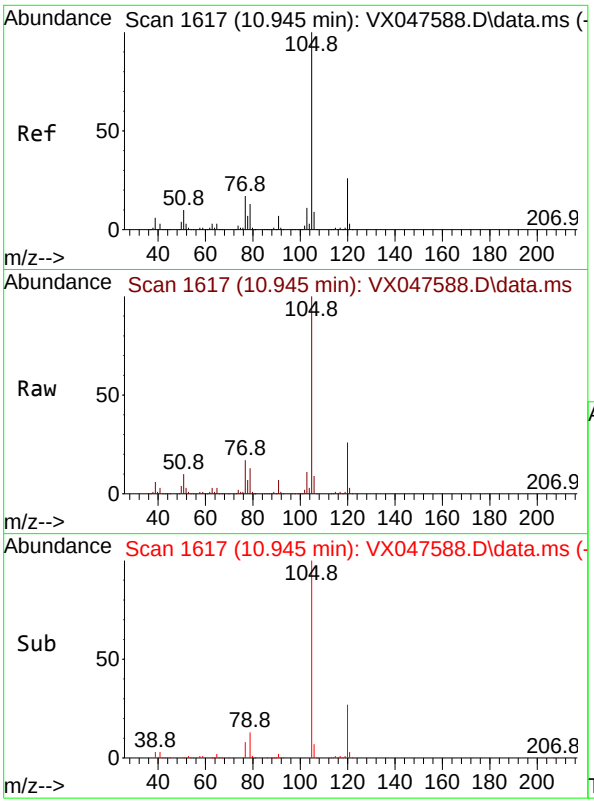


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:152 Resp: 127732

Ion	Ratio	Lower	Upper
152	100		
115	89.7	44.9	134.5
150	176.0	0.0	352.0



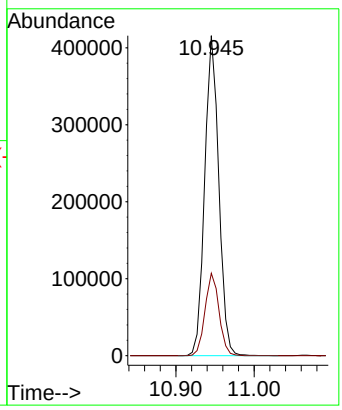


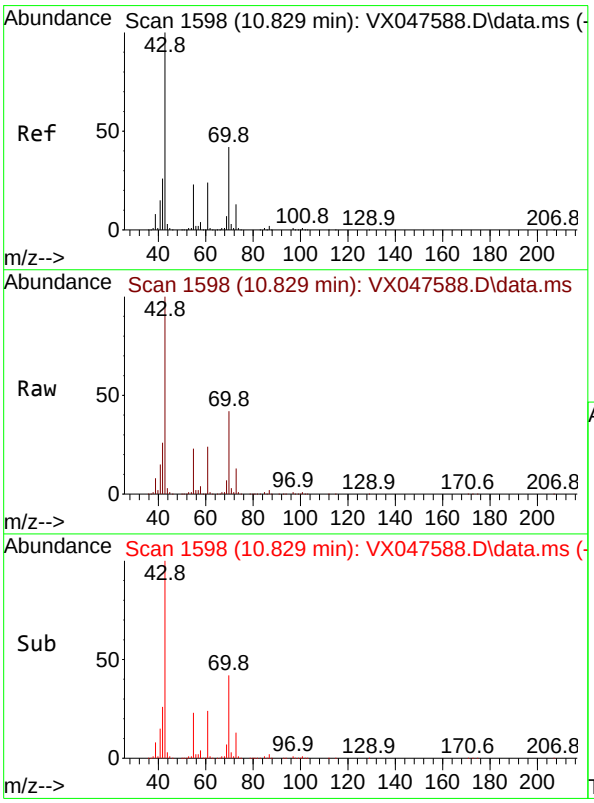
#73
Isopropylbenzene
Concen: 53.227 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 516891

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

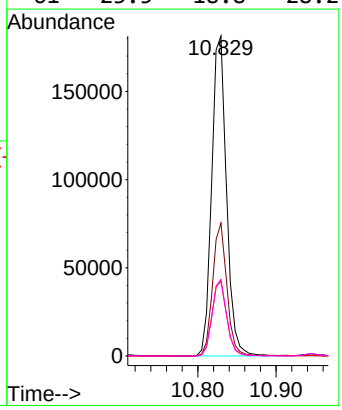


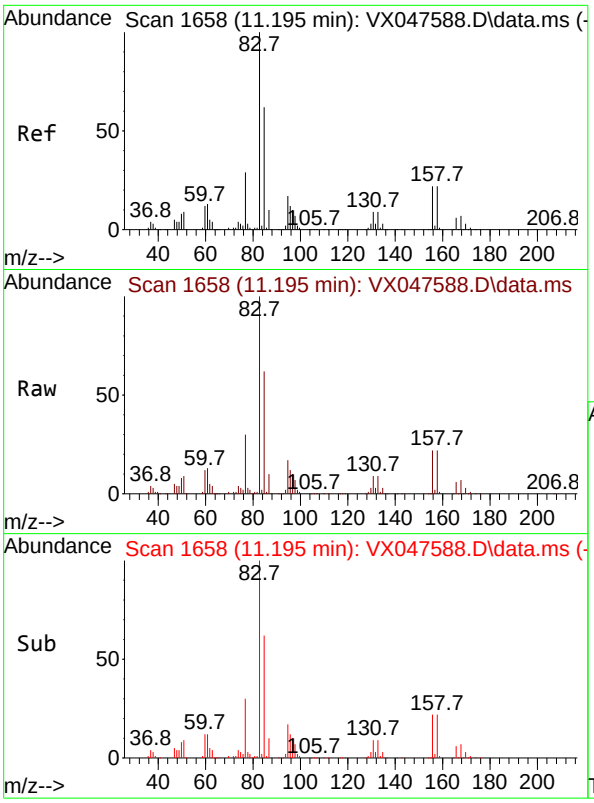


#74
N-amyl acetate
Concen: 53.710 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 237846

Ion	Ratio	Lower	Upper
43	100		
70	40.0	32.0	48.0
55	23.6	18.9	28.3
61	23.5	18.8	28.2



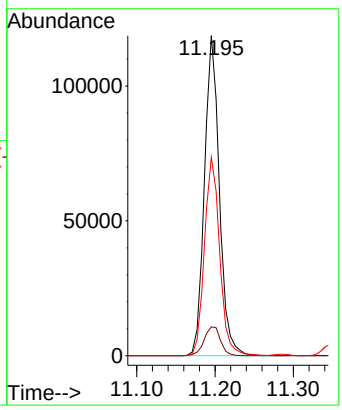


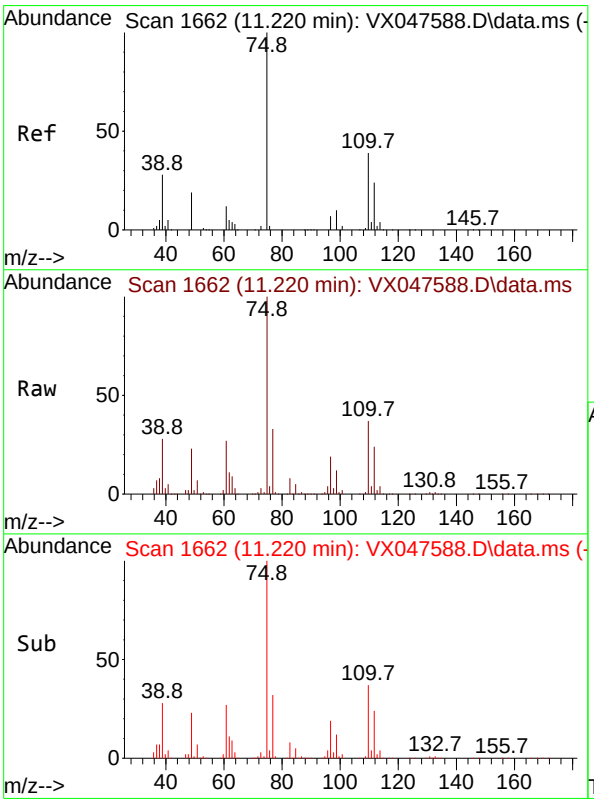
#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 156454

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.3	31.6	95.0

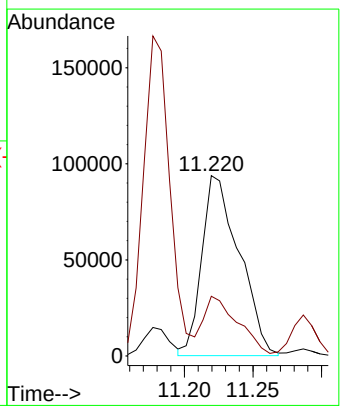


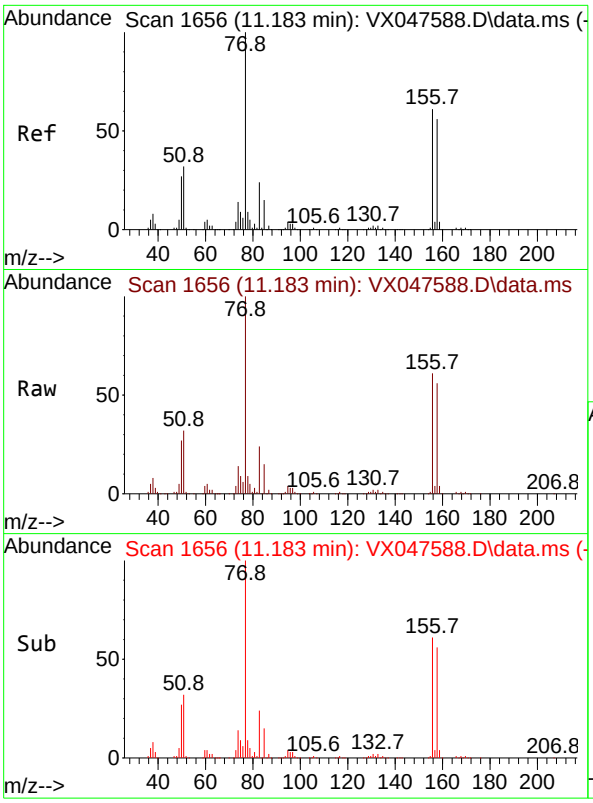


#76
1,2,3-Trichloropropane
Concen: 68.947 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 178309

Ion	Ratio	Lower	Upper
75	100		
77	30.4	18.8	56.4



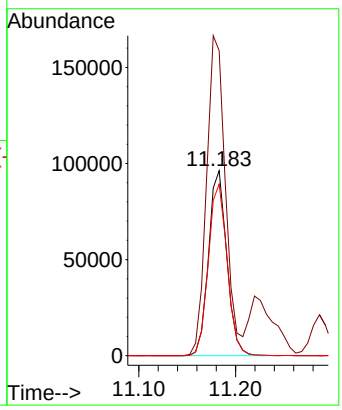


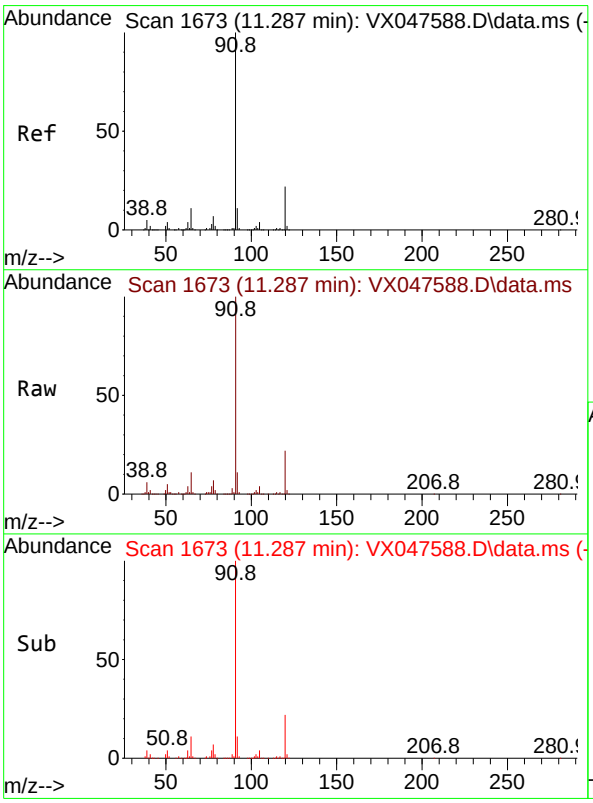
#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 126174

Ion	Ratio	Lower	Upper
156	100		
77	179.4	89.7	269.1
158	95.7	47.9	143.6

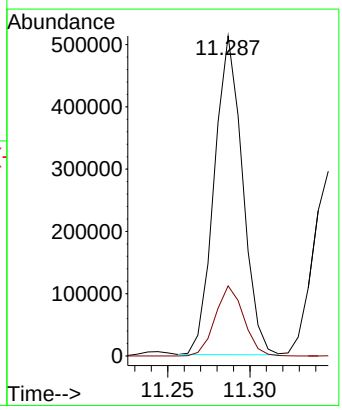


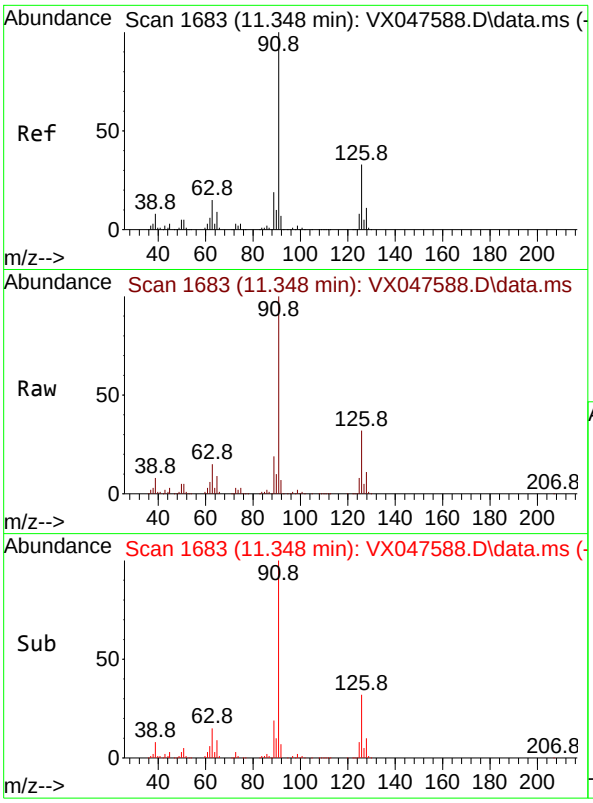


#78
n-propylbenzene
Concen: 53.315 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 612035

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1



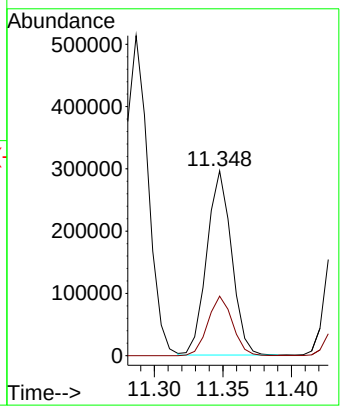


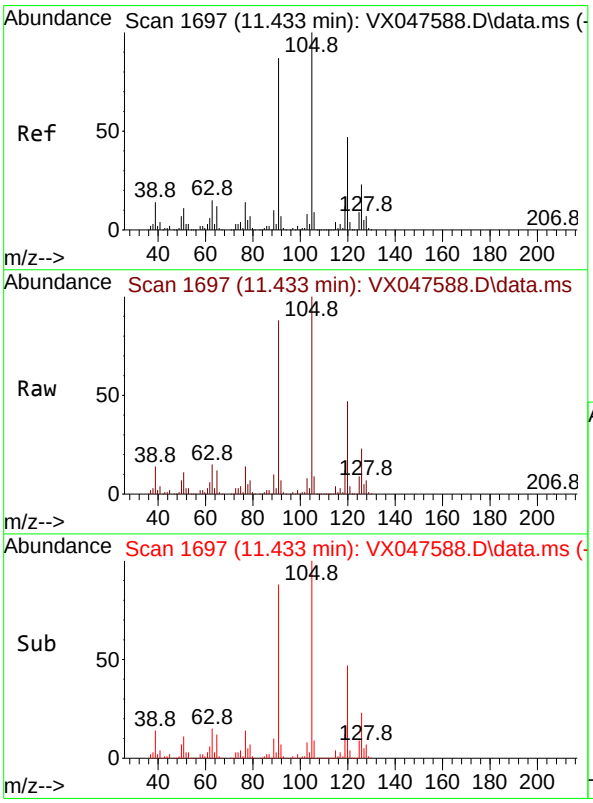
#79
2-Chlorotoluene
Concen: 52.965 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 372397

Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.3

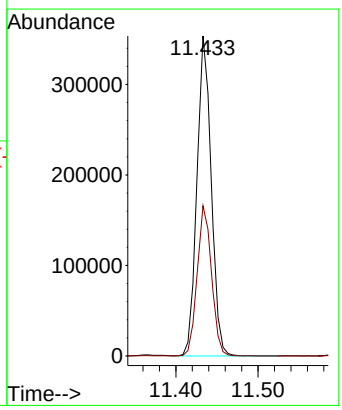


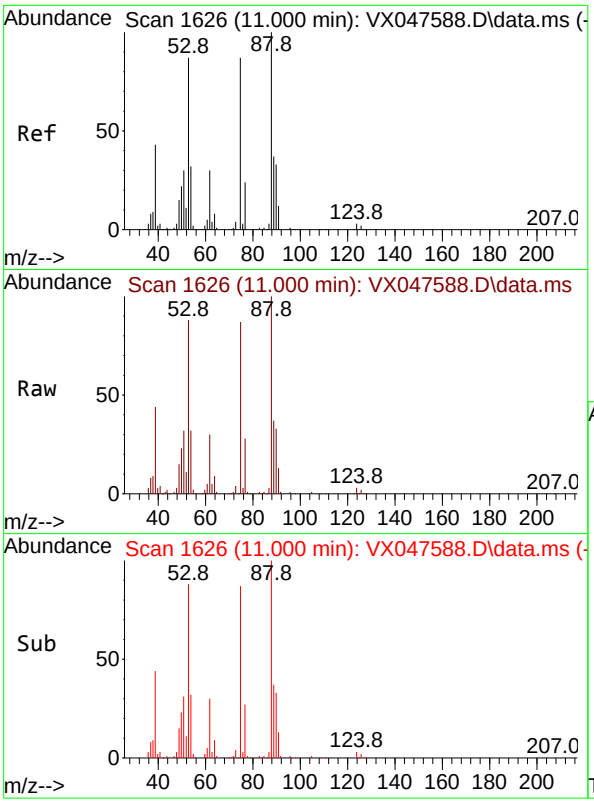


#80
1,3,5-Trimethylbenzene
Concen: 53.518 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 426989

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8



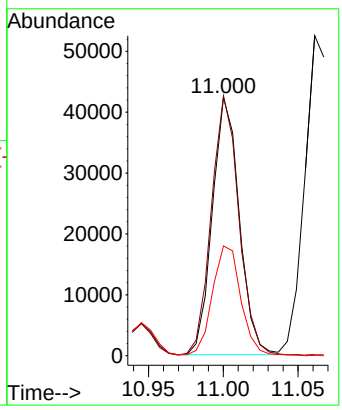


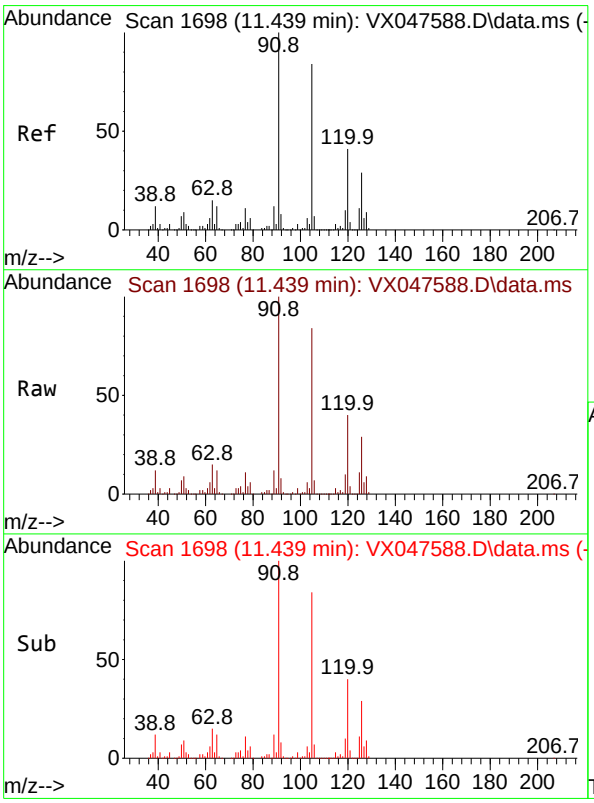
#81
trans-1,4-Dichloro-2-butene
Concen: 52.190 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 52927

Ion	Ratio	Lower	Upper
75	100		
53	104.3	83.4	125.2
89	45.4	36.3	54.5

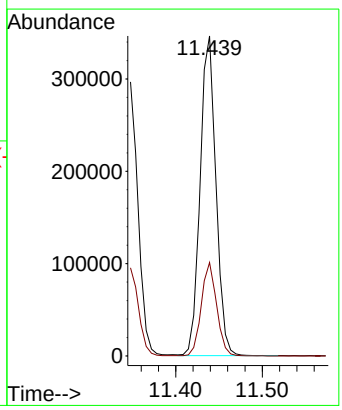


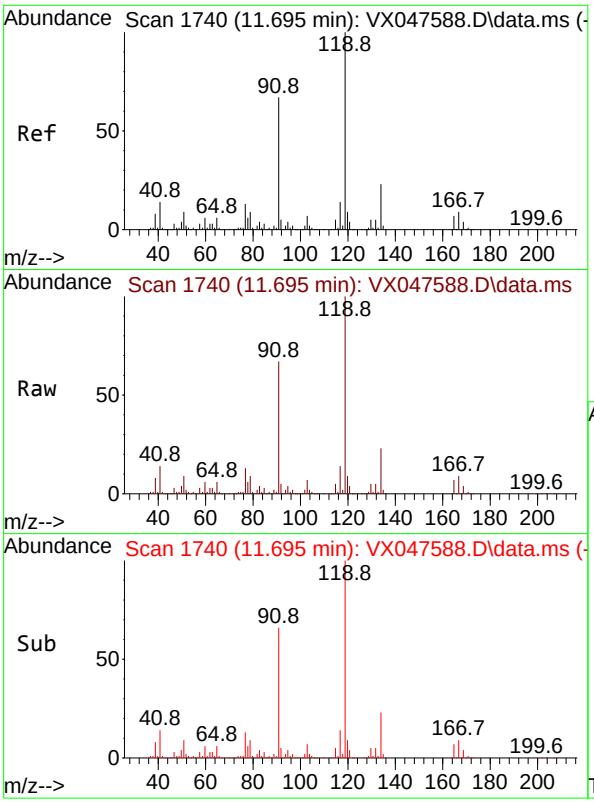


#82
4-Chlorotoluene
Concen: 52.806 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 438502

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6



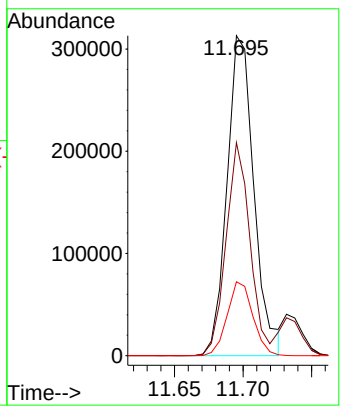


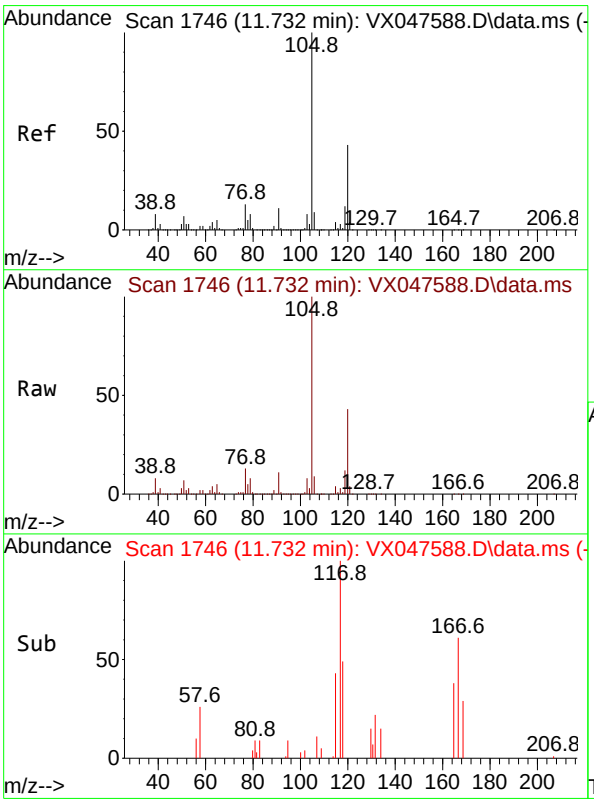
#83
tert-Butylbenzene
Concen: 52.539 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 429107

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.0	11.0	33.0

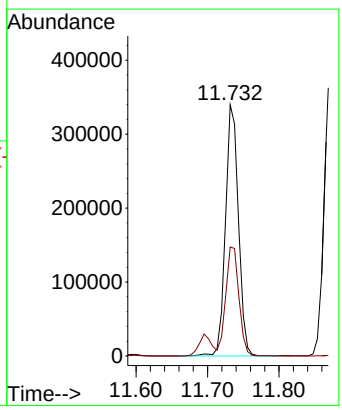


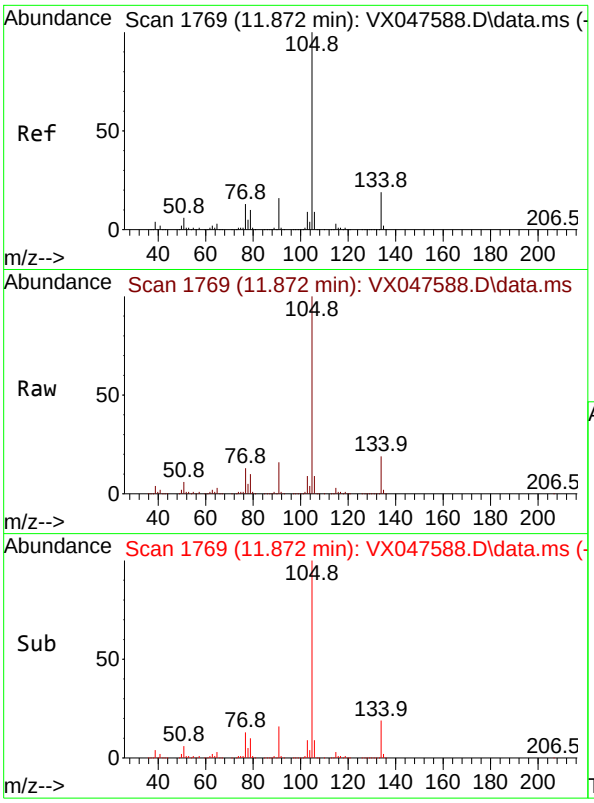


#84
1,2,4-Trimethylbenzene
Concen: 52.798 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 427073

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



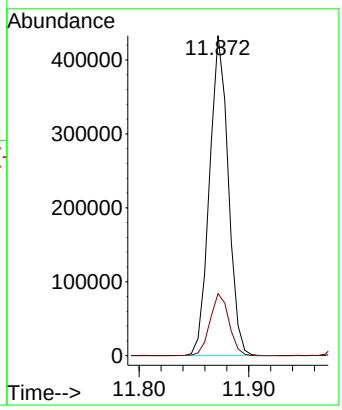


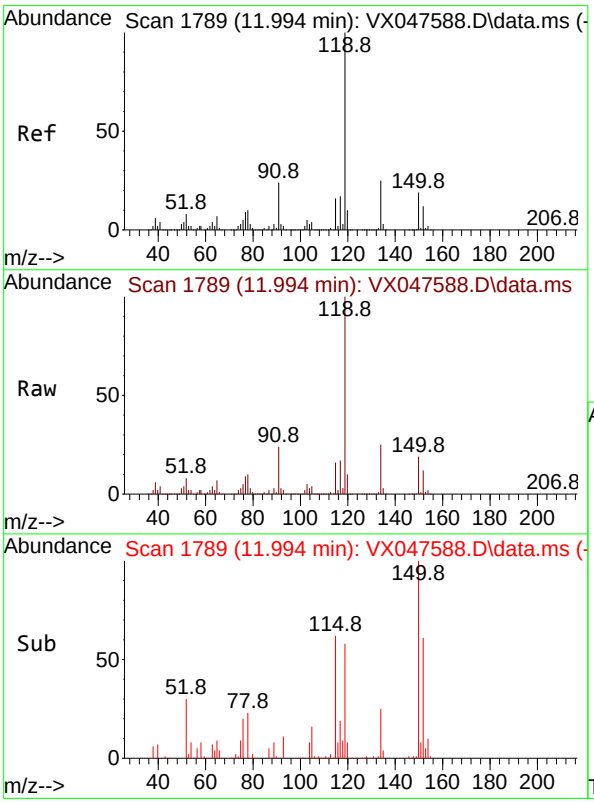
#85
sec-Butylbenzene
Concen: 53.029 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 514442

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

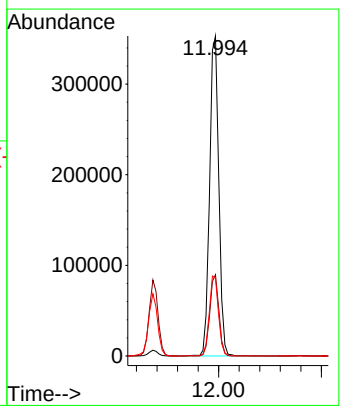


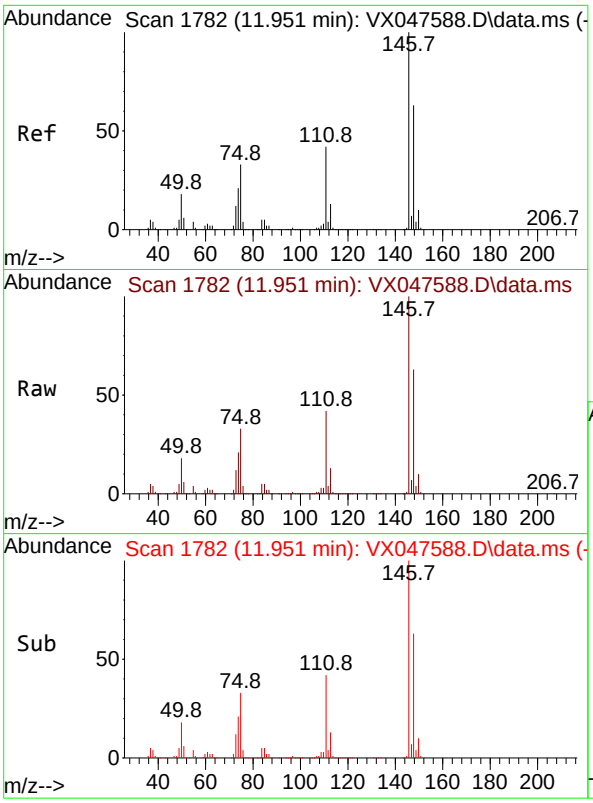


#86
p-Isopropyltoluene
Concen: 53.172 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 436704

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	25.1	12.6	37.6



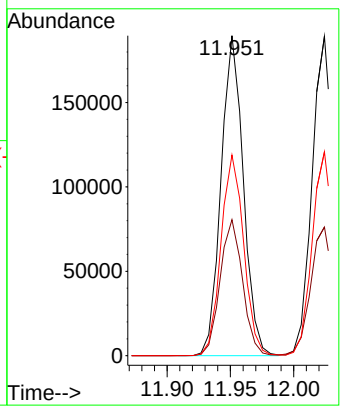


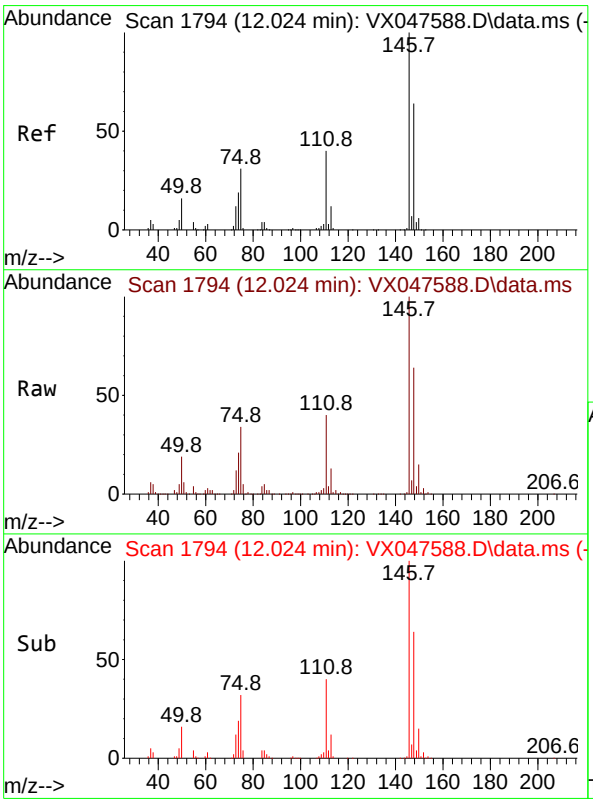
#87
1,3-Dichlorobenzene
Concen: 52.232 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 232038

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	64.0	32.0	96.0

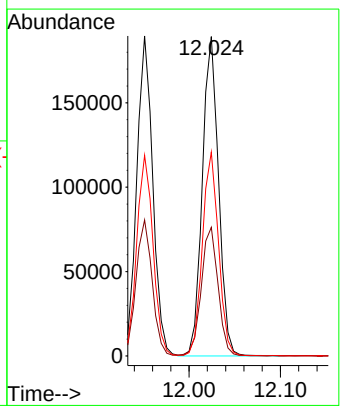


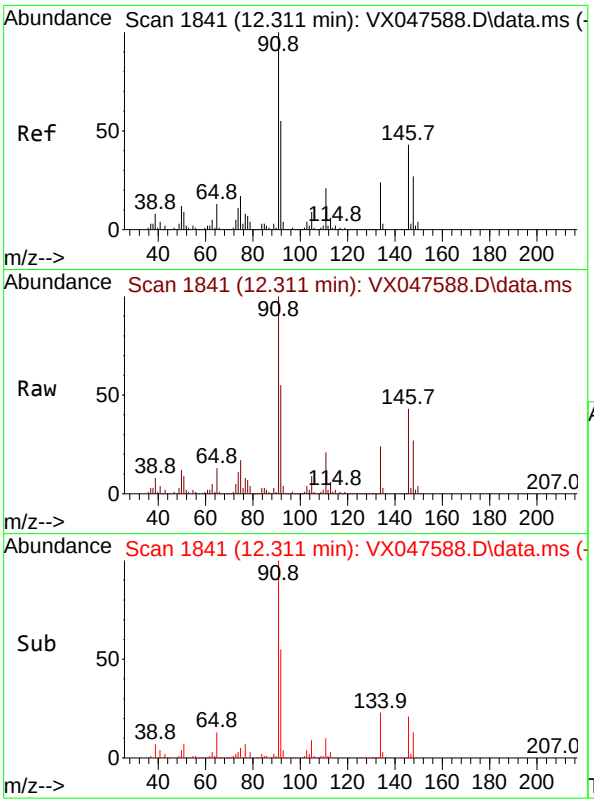


#88
1,4-Dichlorobenzene
Concen: 51.316 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 233975

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.4	31.7	95.1



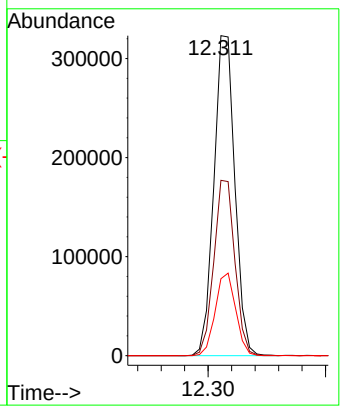


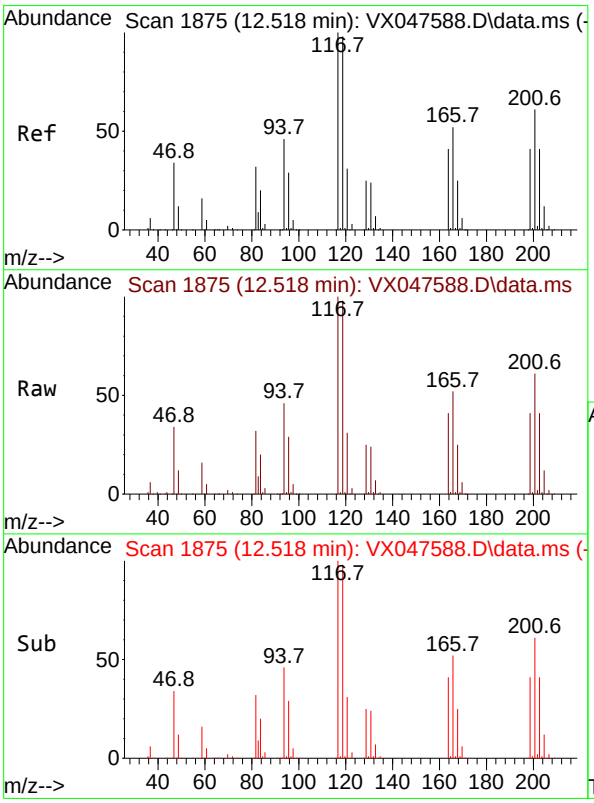
#89
n-Butylbenzene
Concen: 52.766 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 400997

Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.6	82.7
134	25.2	12.6	37.8

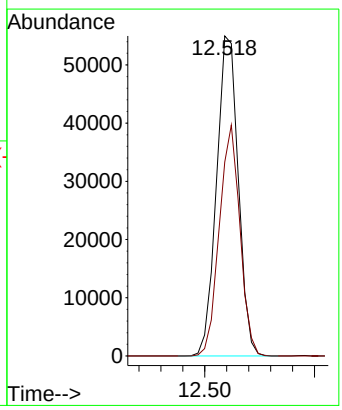


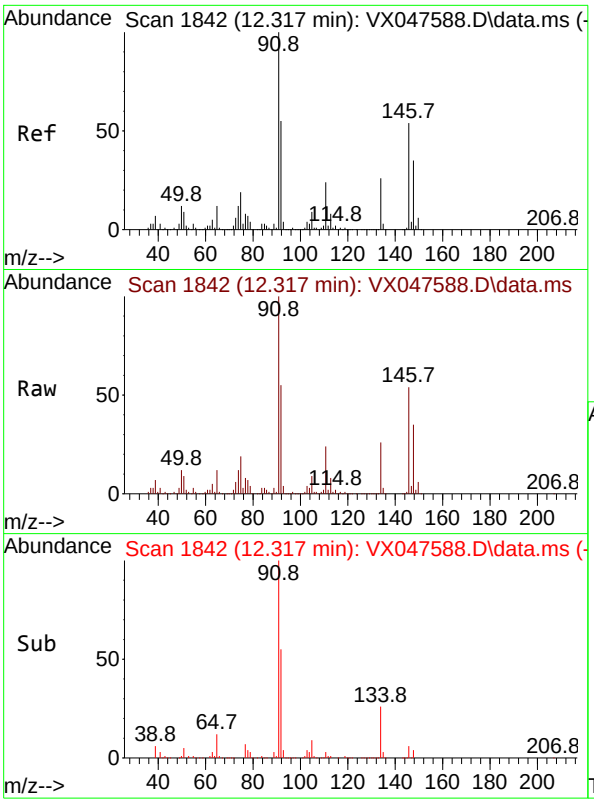


#90
Hexachloroethane
Concen: 52.567 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 75800

Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5



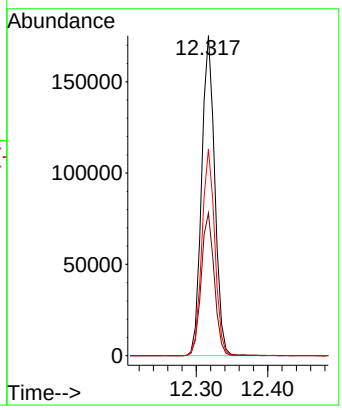


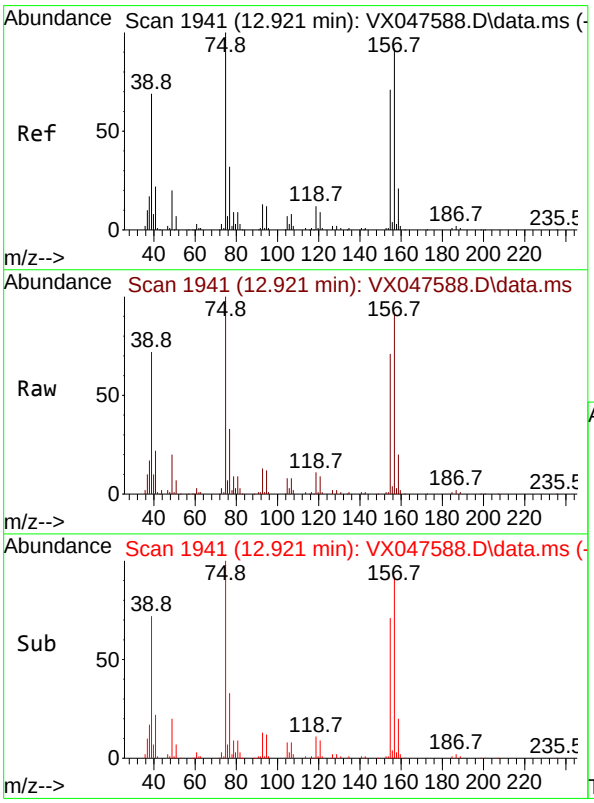
#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 222993

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.2	66.6
148	63.6	31.8	95.4

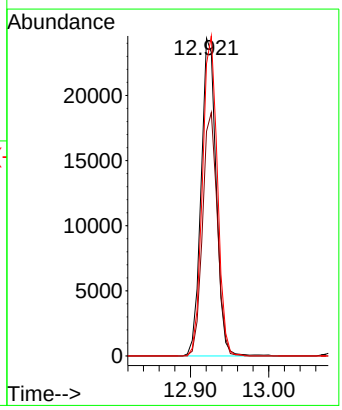


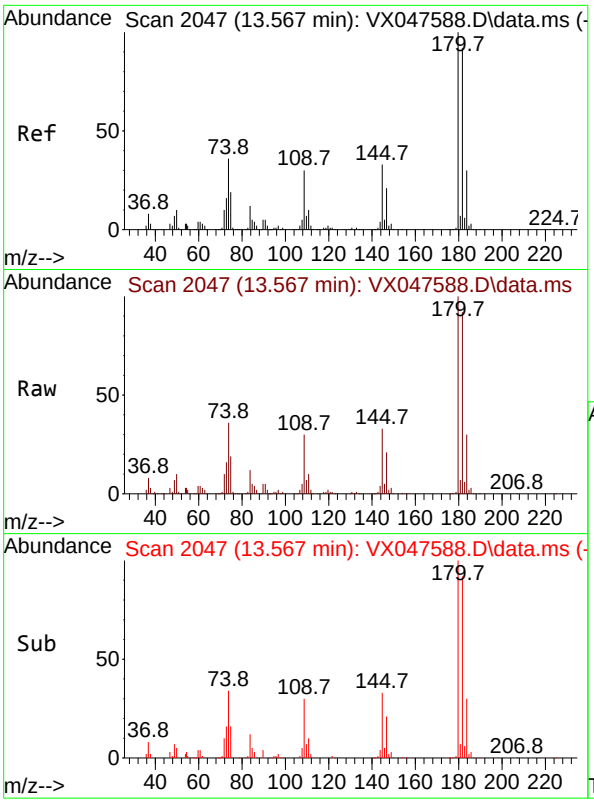


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.554 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 32451

Ion	Ratio	Lower	Upper
75	100		
155	75.4	37.7	113.1
157	99.6	49.8	149.4



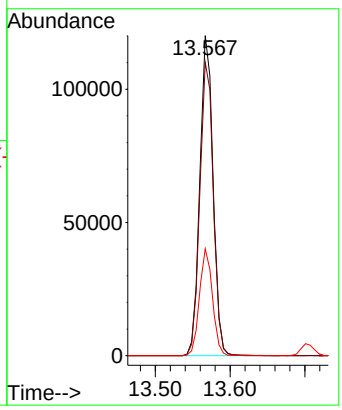


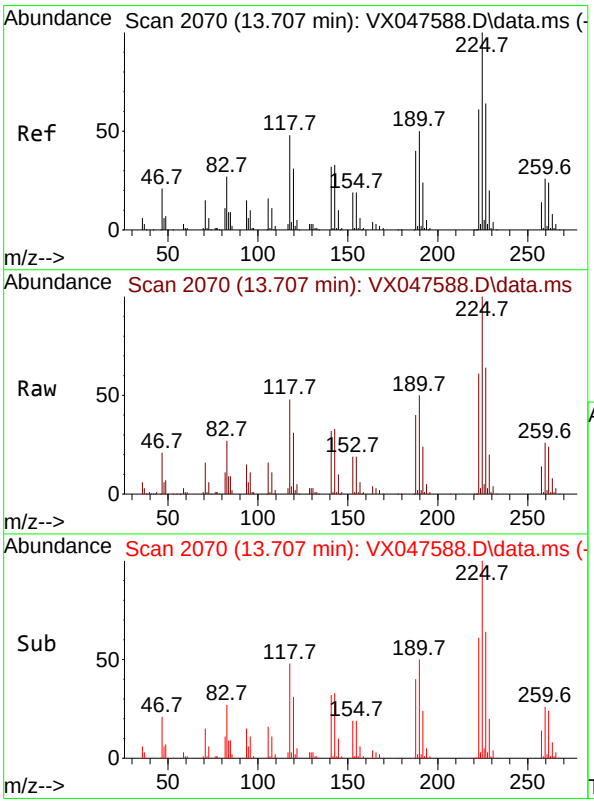
#93
1,2,4-Trichlorobenzene
Concen: 53.685 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 147670

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1

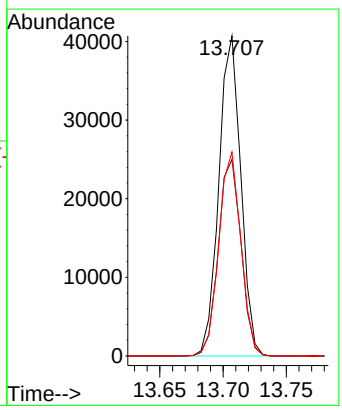


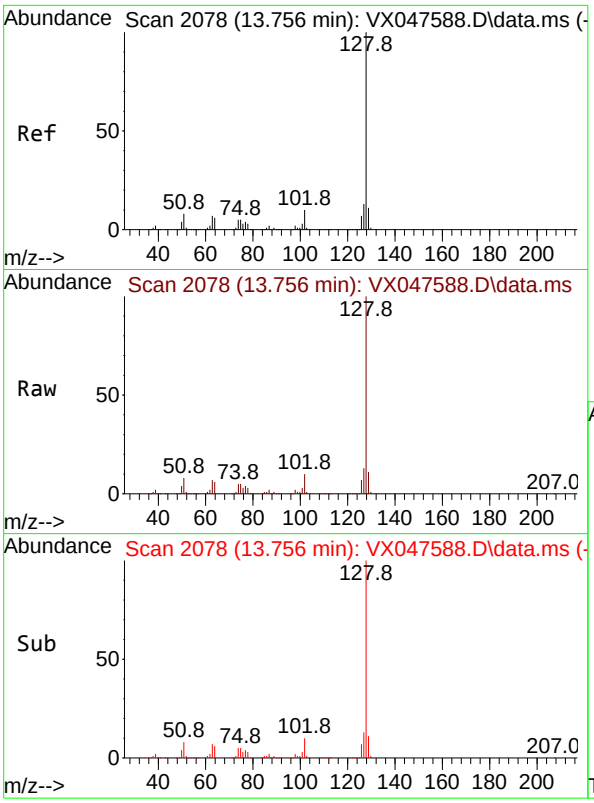


#94
Hexachlorobutadiene
Concen: 52.510 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:225 Resp: 49061

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.7	95.1
227	64.0	32.0	96.0



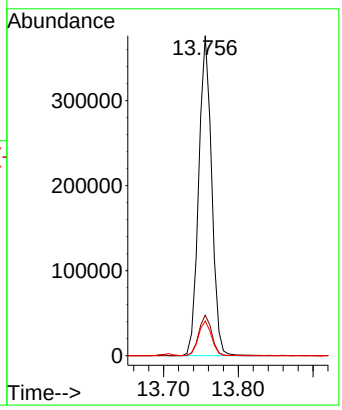


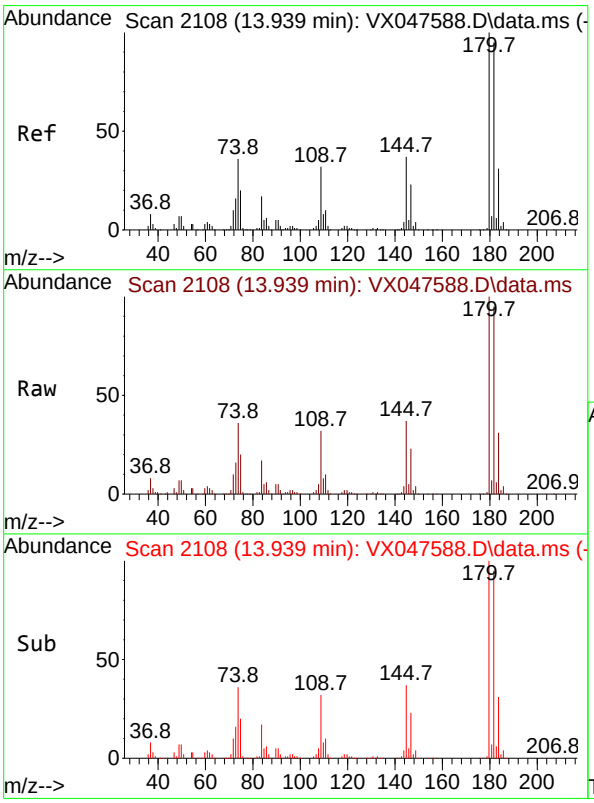
#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 452013

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2

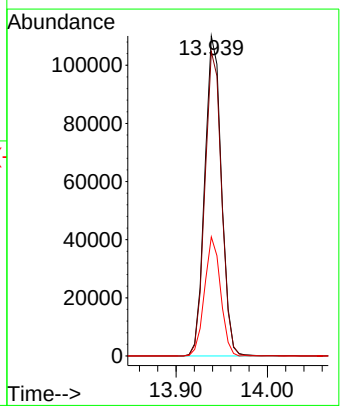




#96
1,2,3-Trichlorobenzene
Concen: 54.316 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 138978

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	35.8	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	327988	132.545	ug/l	89
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

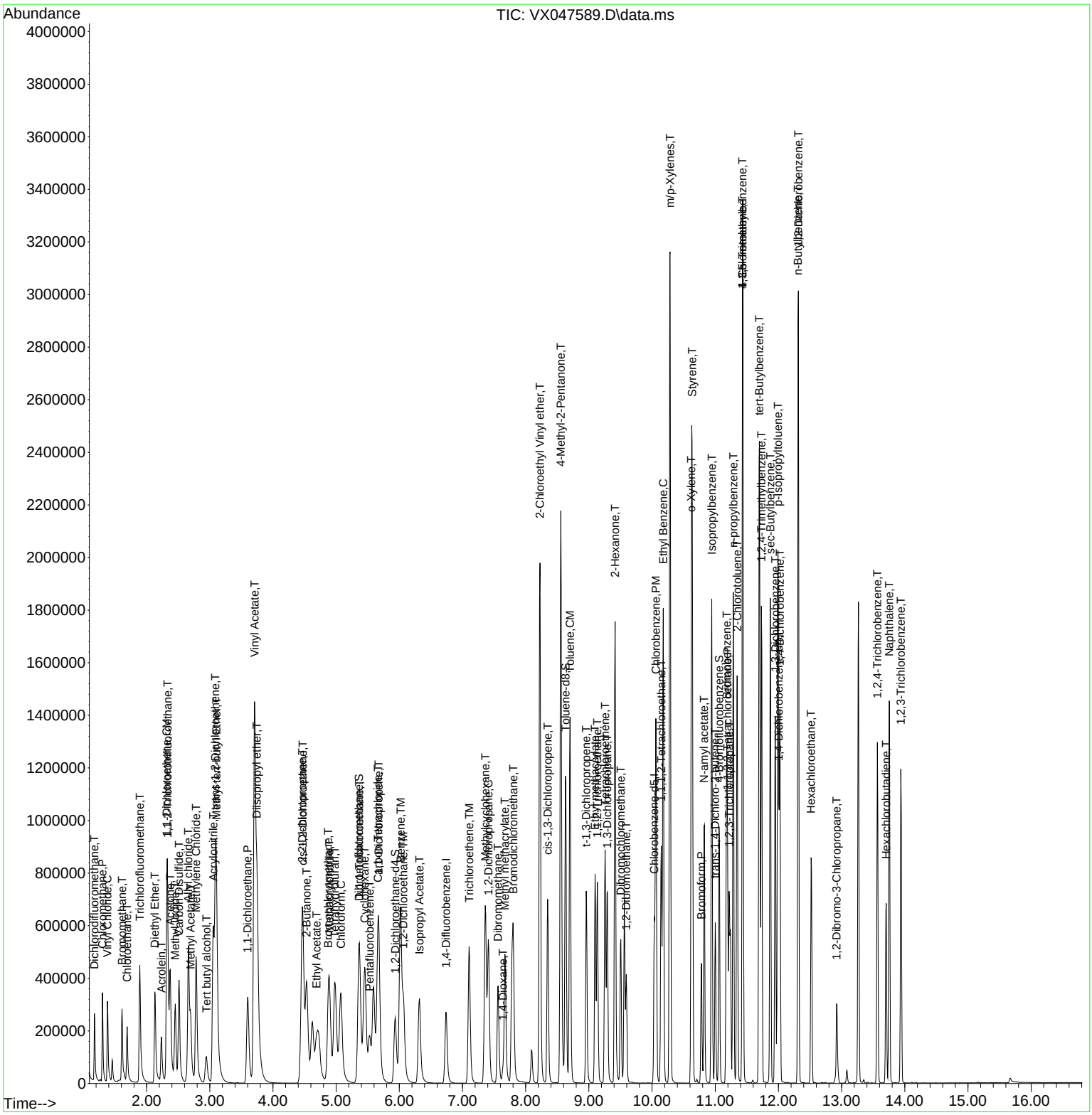
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

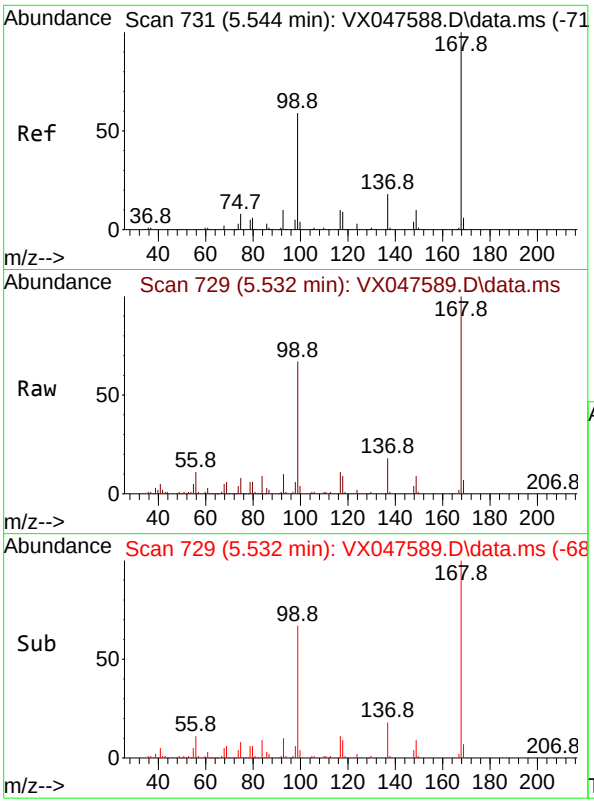
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



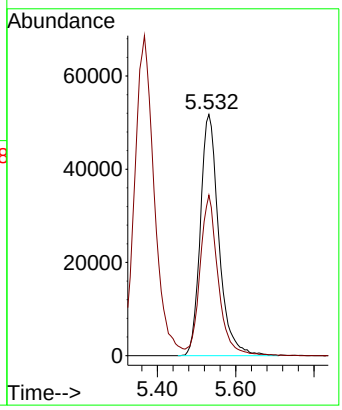


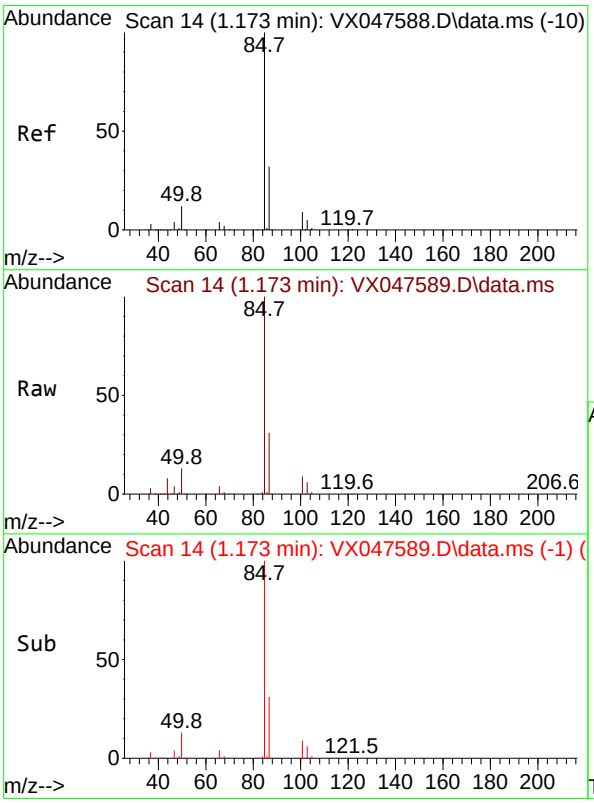
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 169280

Ion	Ratio	Lower	Upper
168	100		
99	66.4	48.8	73.2

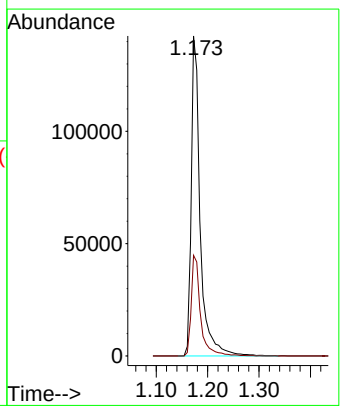


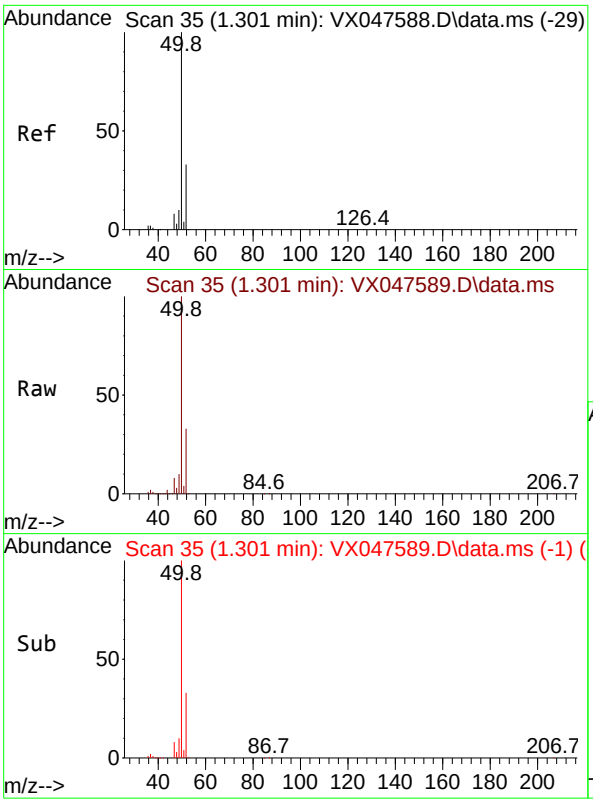


#2
Dichlorodifluoromethane
Concen: 98.537 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 85 Resp: 172727

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3



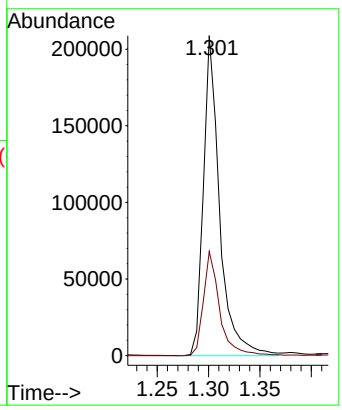


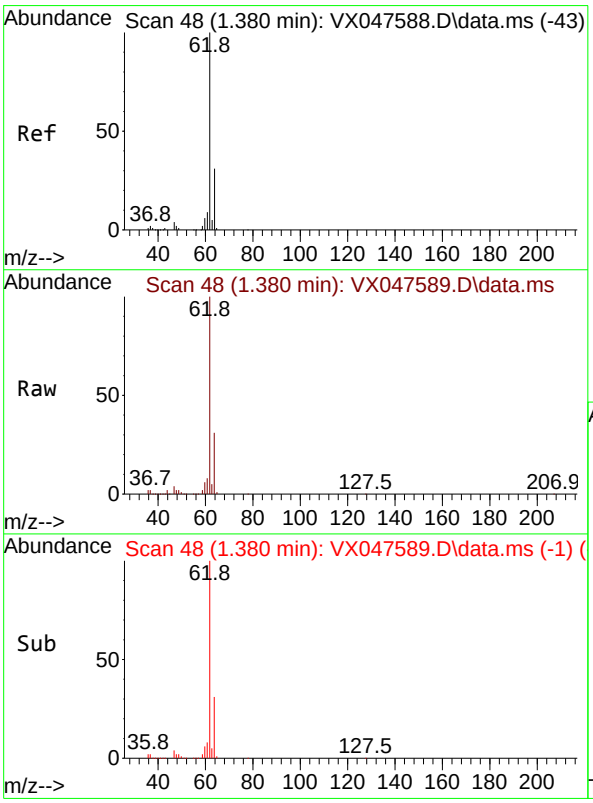
#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 229165

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1

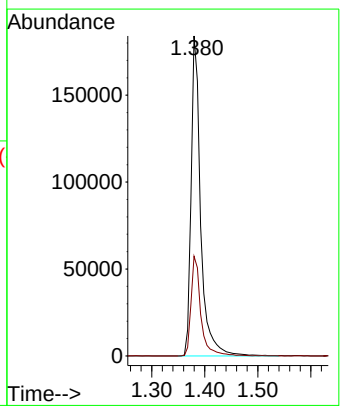


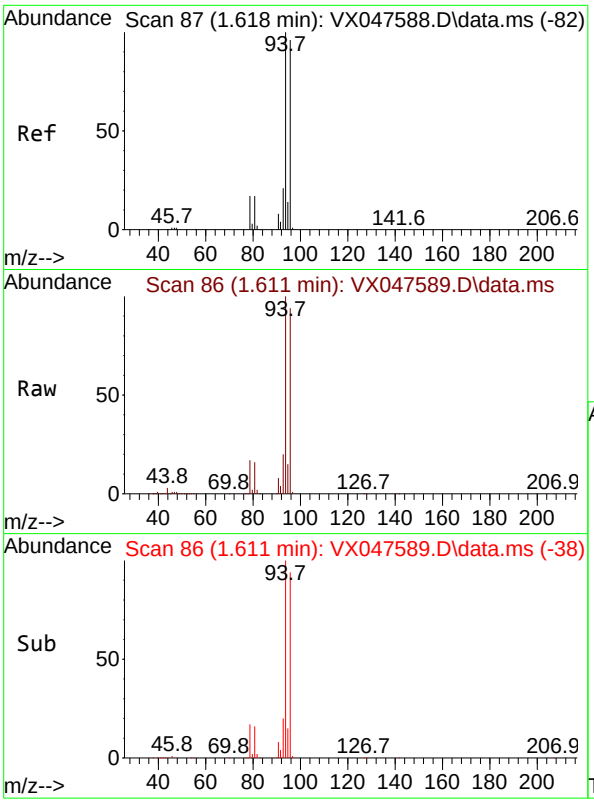


#4
Vinyl Chloride
Concen: 101.621 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 229175

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3



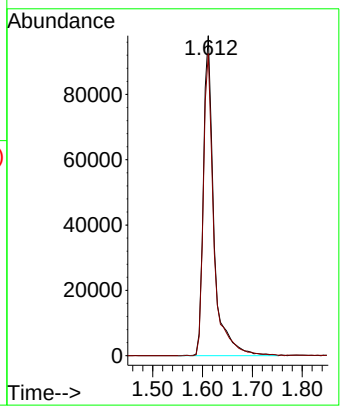


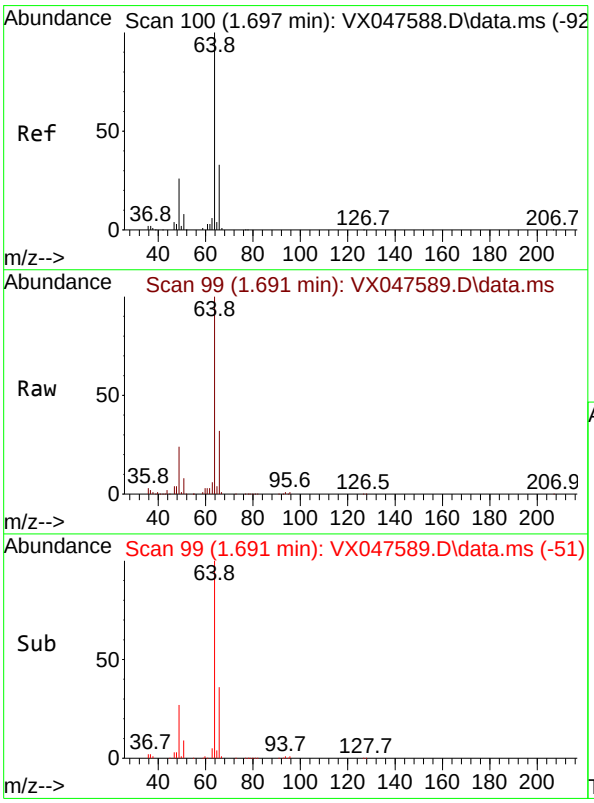
#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 143113

Ion	Ratio	Lower	Upper
94	100		
96	94.4	76.6	115.0

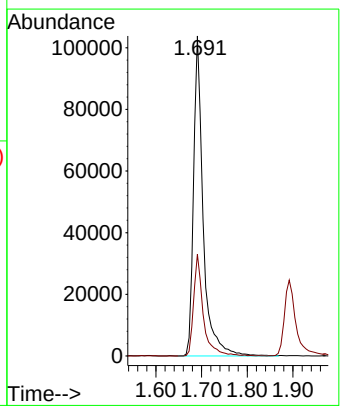


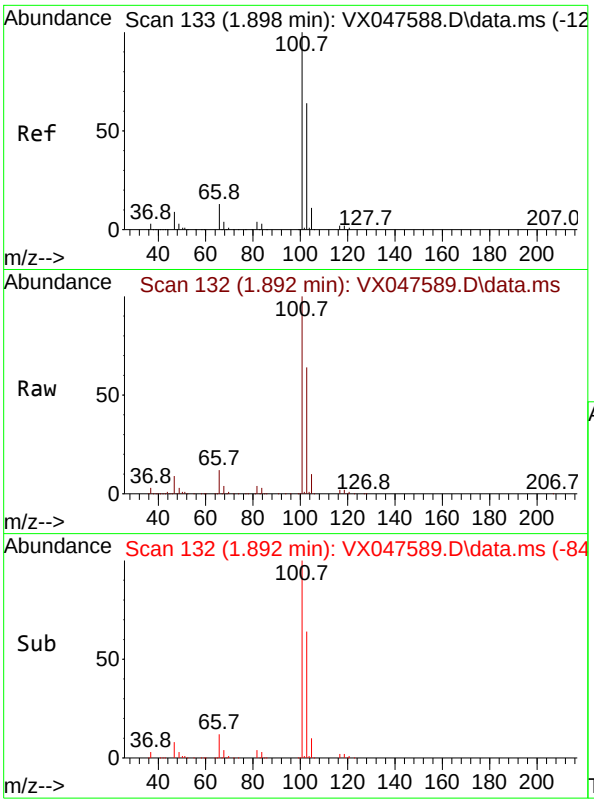


#6
Chloroethane
Concen: 101.167 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 64 Resp: 152487

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.1	39.1



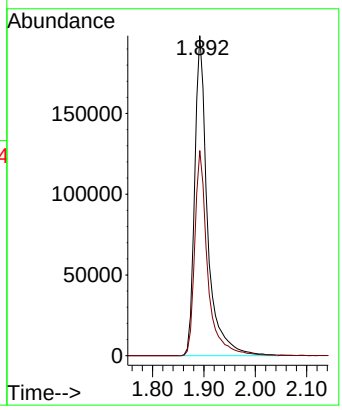


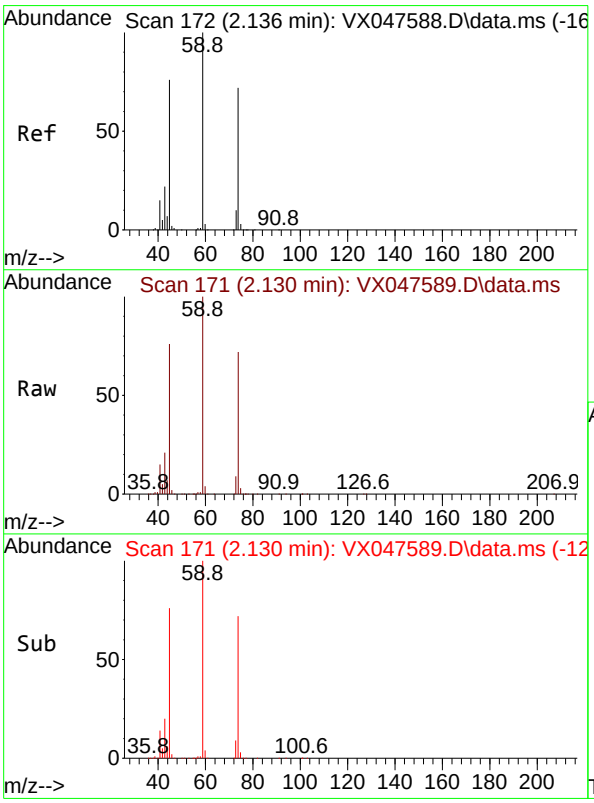
#7
Trichlorofluoromethane
Concen: 102.878 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 344488

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.2

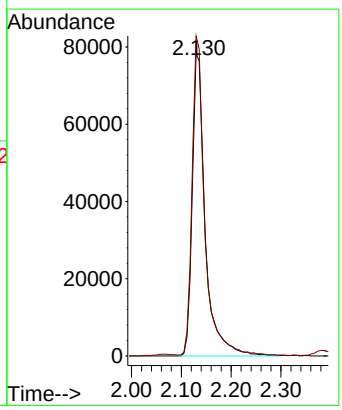


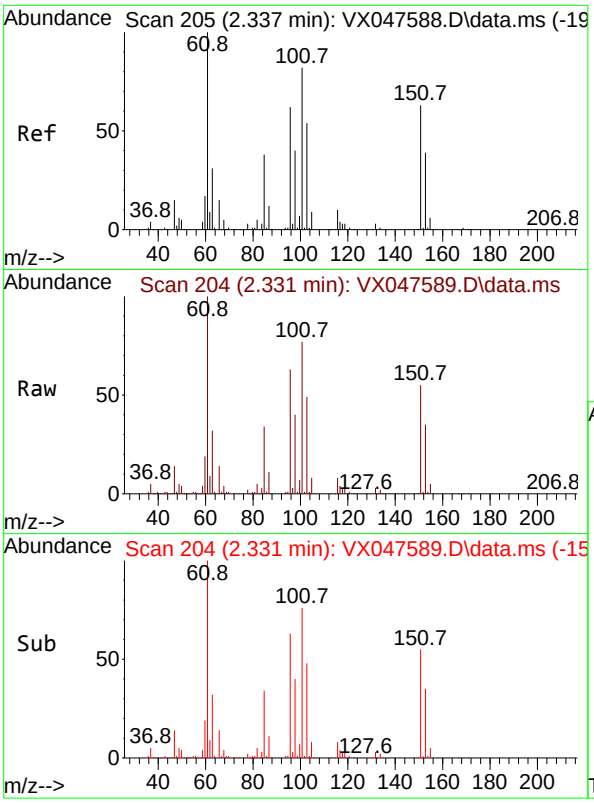


#8
Diethyl Ether
Concen: 103.695 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 74 Resp: 142038

Ion	Ratio	Lower	Upper
74	100		
45	104.6	52.3	156.8



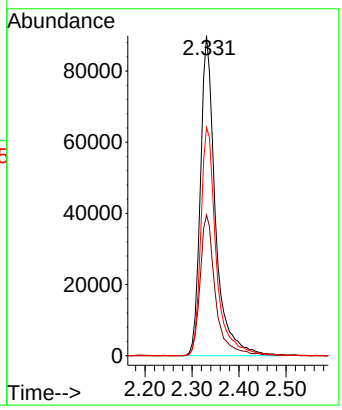


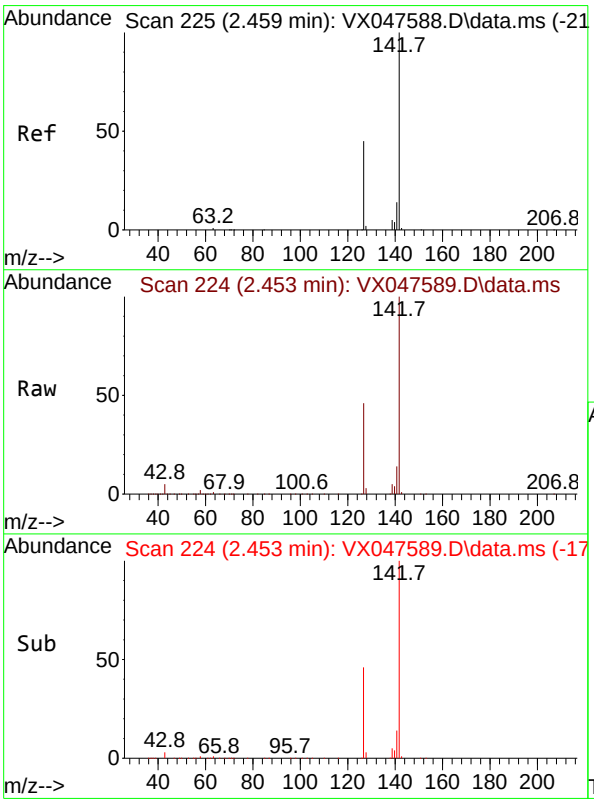
#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.067 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 199843

Ion	Ratio	Lower	Upper
101	100		
85	45.1	35.5	53.3
151	73.6	59.4	89.0

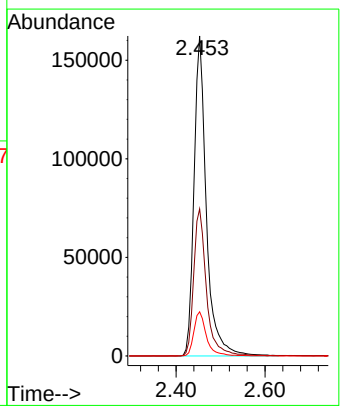


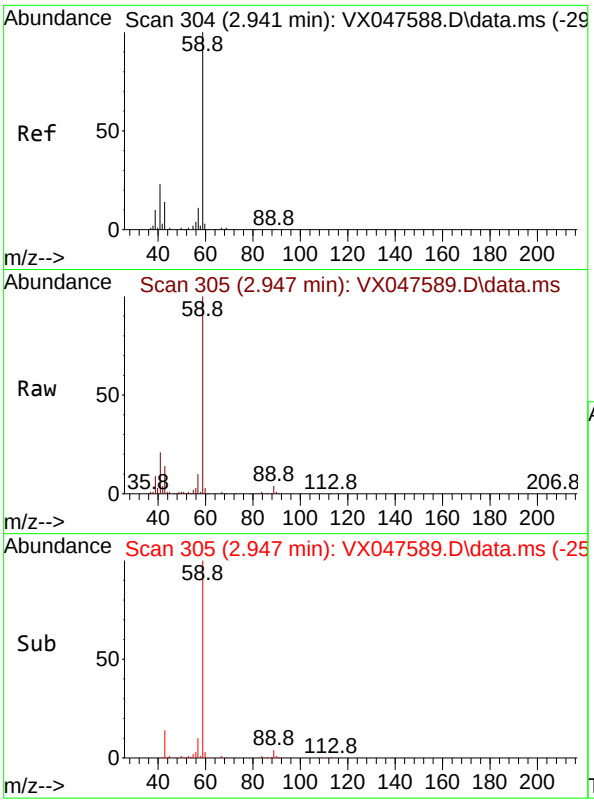


#10
Methyl Iodide
Concen: 102.531 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:142 Resp: 313092

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.1	11.4	17.0



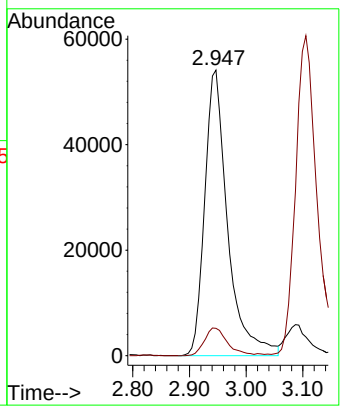


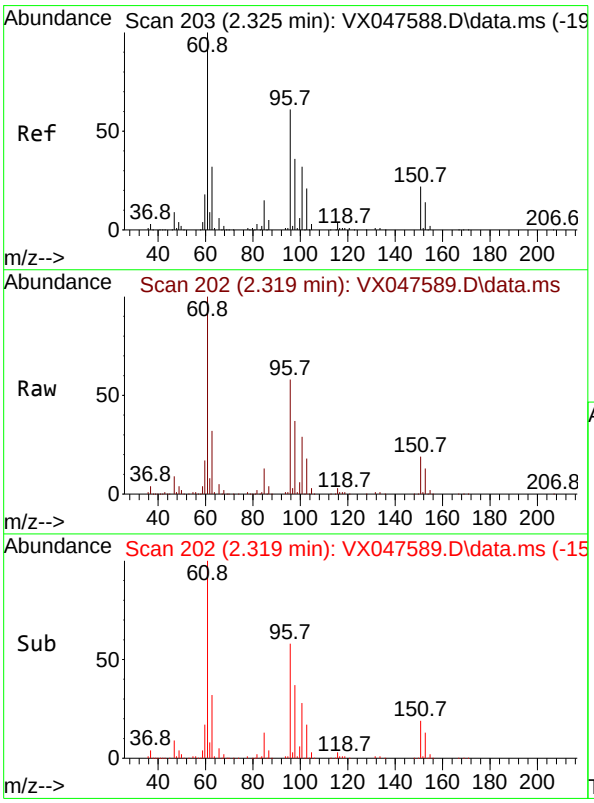
#11
Tert butyl alcohol
Concen: 506.863 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 152108

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.3	12.5

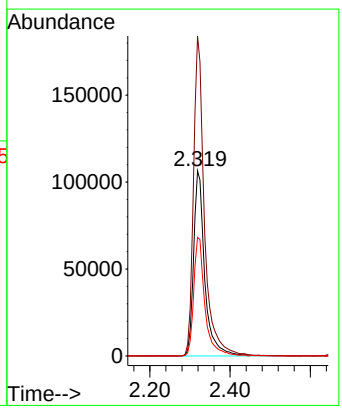


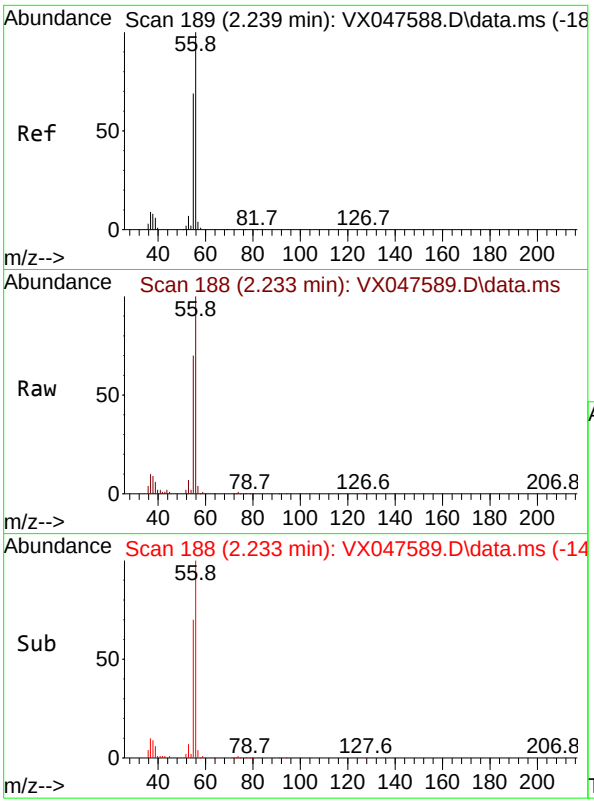


#12
1,1-Dichloroethene
Concen: 102.473 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 206097

Ion	Ratio	Lower	Upper
96	100		
61	172.9	131.0	196.6
98	64.0	47.7	71.5



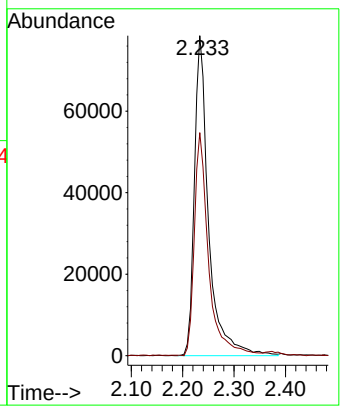


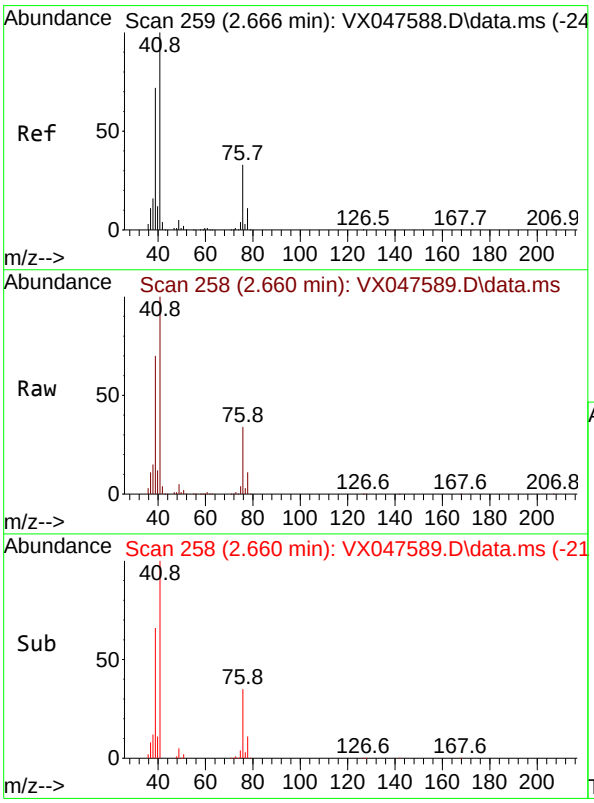
#13
Acrolein
Concen: 545.276 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 150793

Ion	Ratio	Lower	Upper
56	100		
55	69.4	57.2	85.8

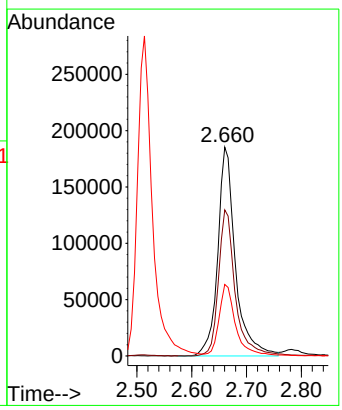


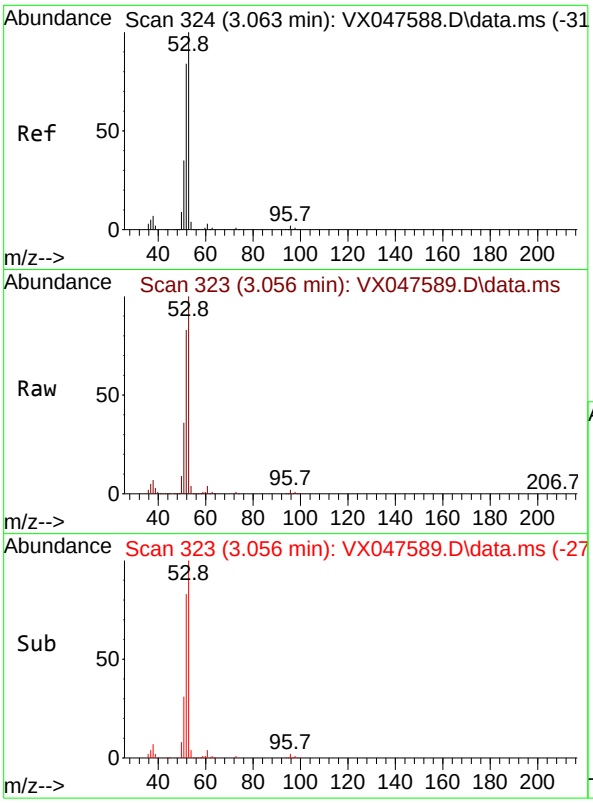


#14
Allyl chloride
Concen: 100.028 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 415140

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.7	82.1
76	32.2	25.7	38.5



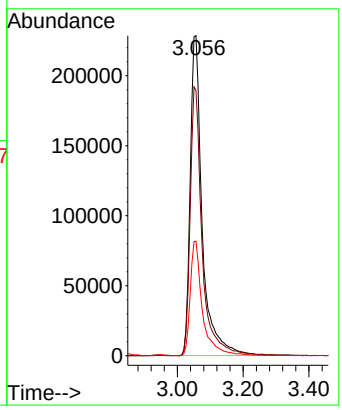


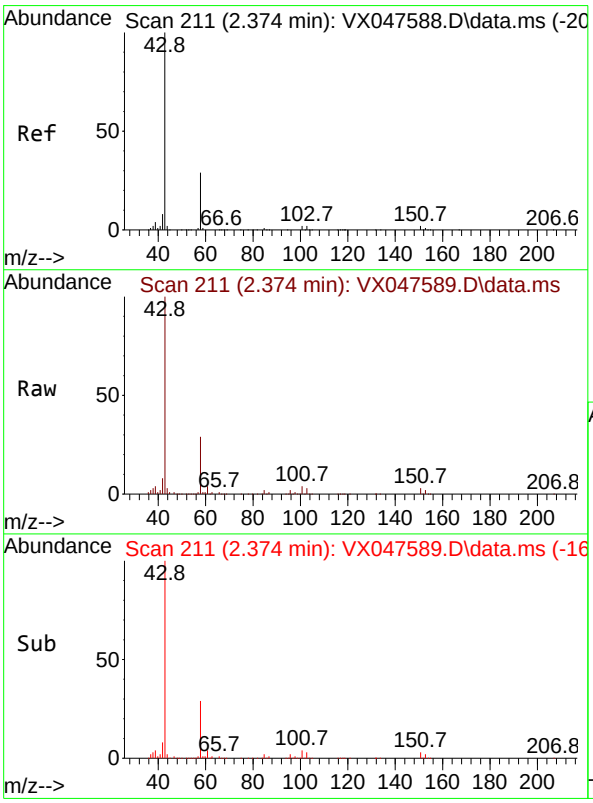
#15
Acrylonitrile
Concen: 522.897 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 581240

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.4	99.6
51	36.4	29.5	44.3

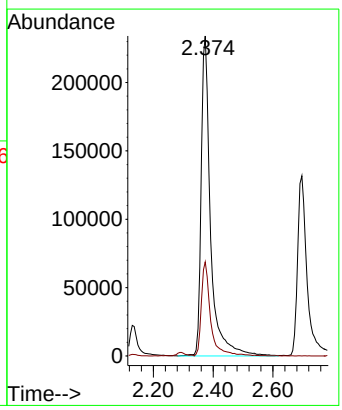


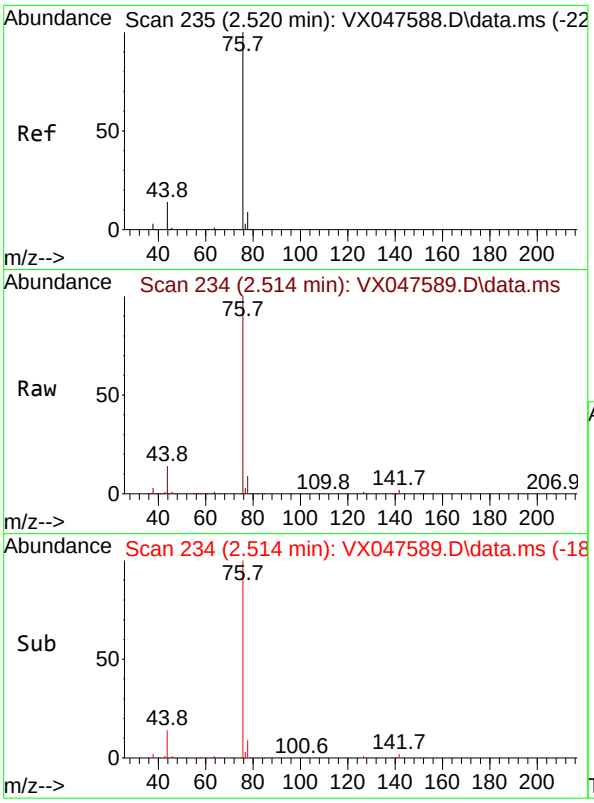


#16
Acetone
Concen: 435.772 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 510542

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0



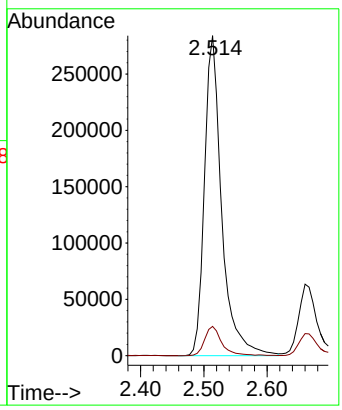


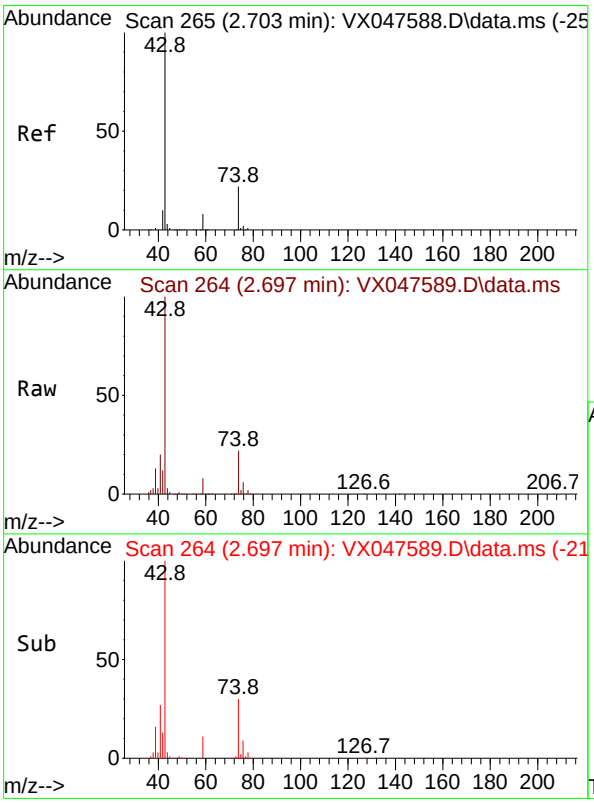
#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 537888

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2

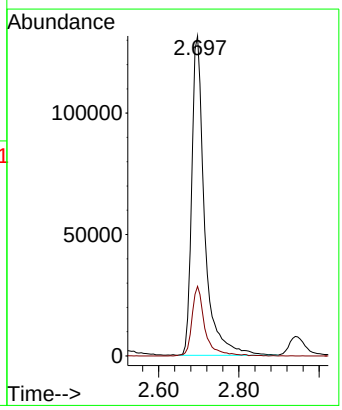


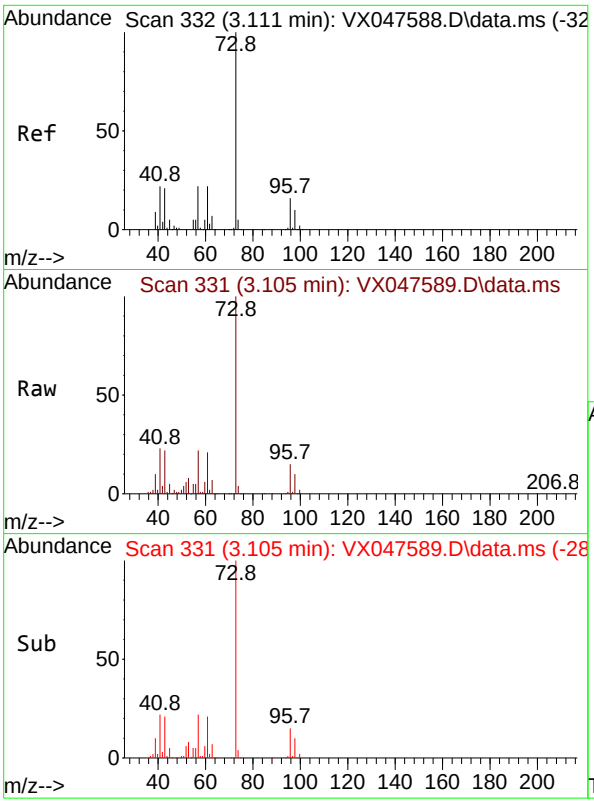


#18
Methyl Acetate
Concen: 112.324 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 292867

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



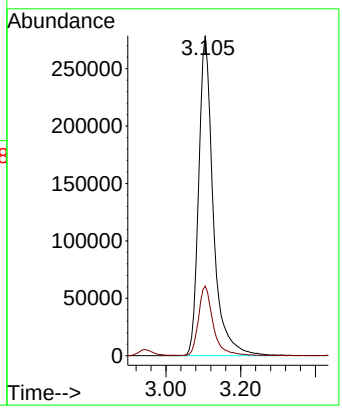


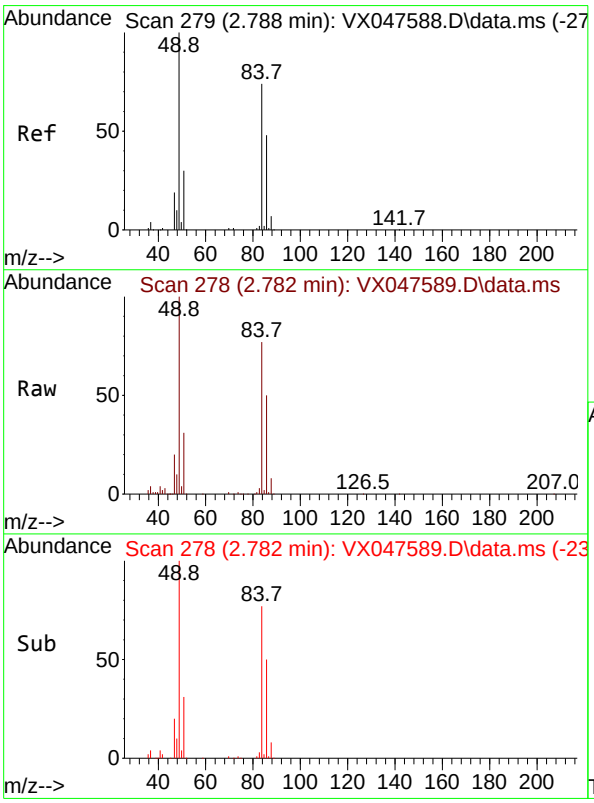
#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 748952

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2

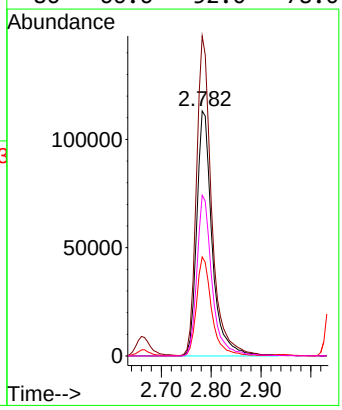


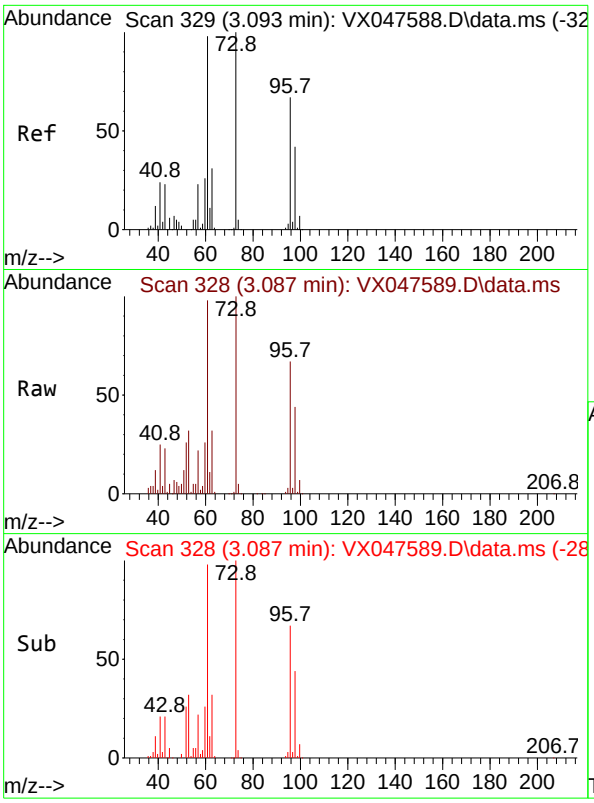


#20
Methylene Chloride
Concen: 97.805 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 84 Resp: 242548

Ion	Ratio	Lower	Upper
84	100		
49	130.4	108.6	162.8
51	40.3	32.6	48.8
86	66.6	52.0	78.0



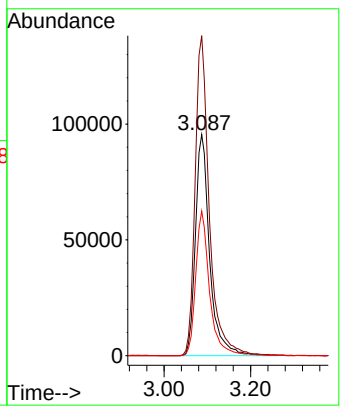


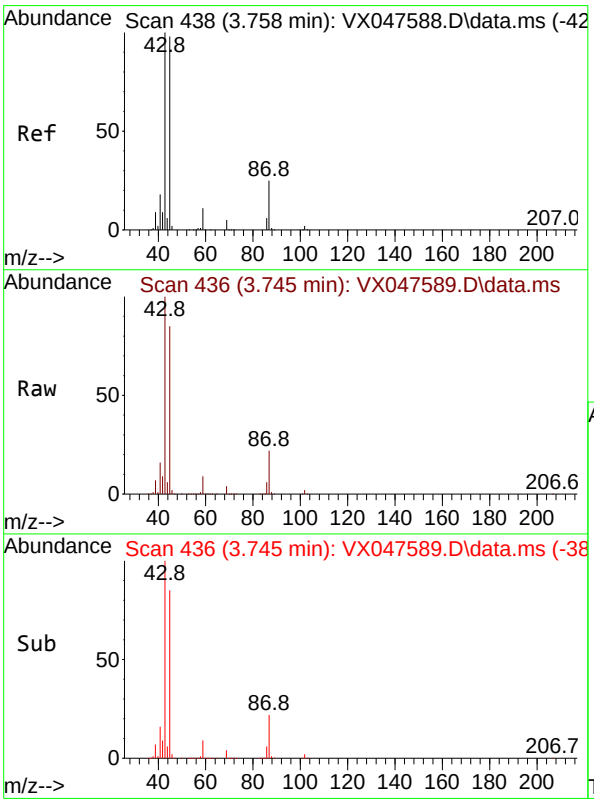
#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 217759

Ion	Ratio	Lower	Upper
96	100		
61	144.7	116.2	174.2
98	65.4	49.3	73.9

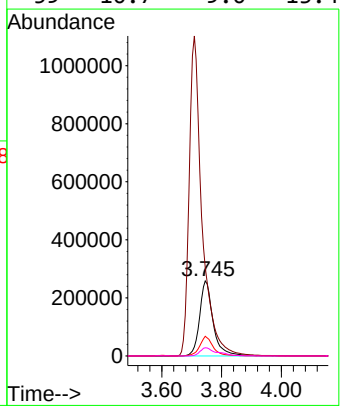


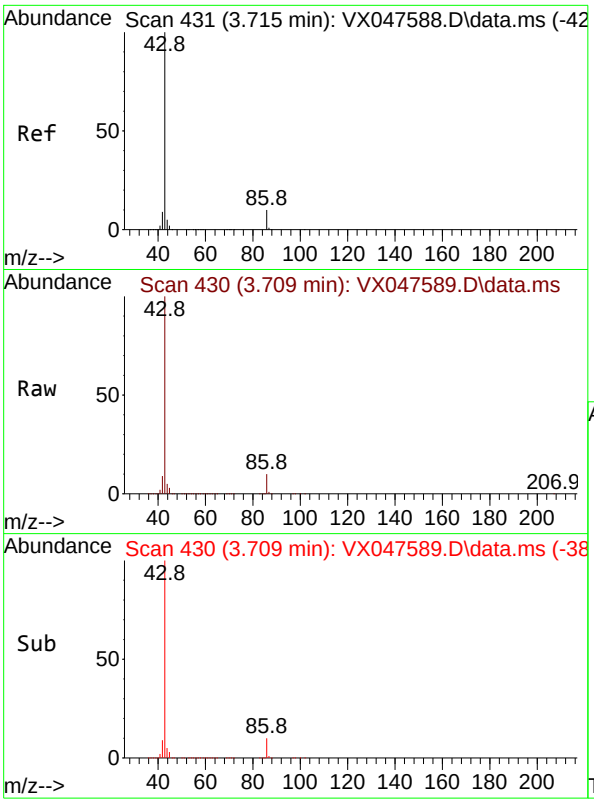


#22
Diisopropyl ether
Concen: 100.934 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 45 Resp: 811840

Ion	Ratio	Lower	Upper
45	100		
43	117.3	81.0	121.4
87	26.1	20.3	30.5
59	10.7	9.0	13.4



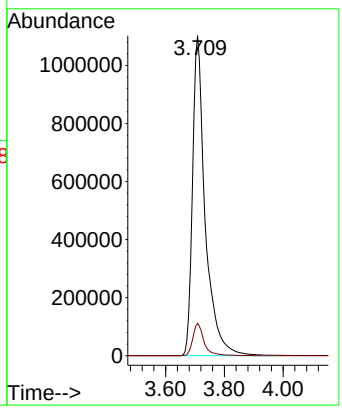


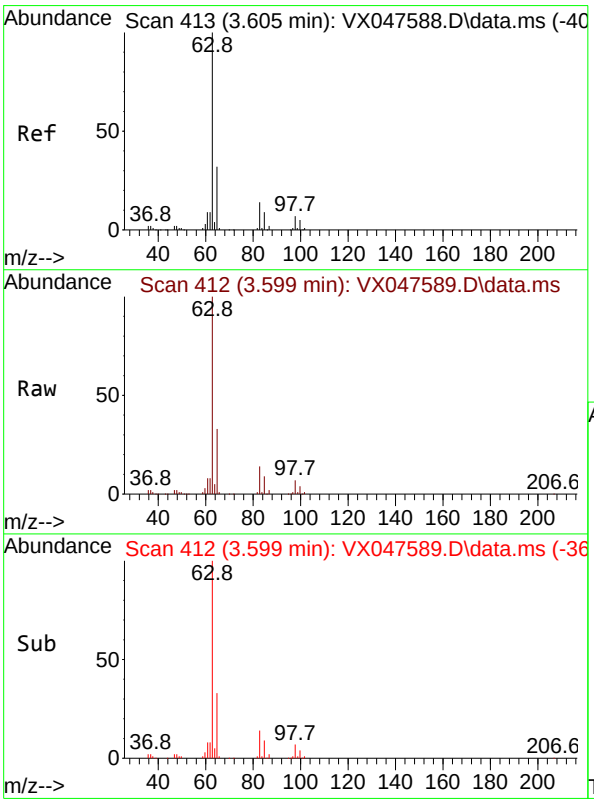
#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 3314707

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8

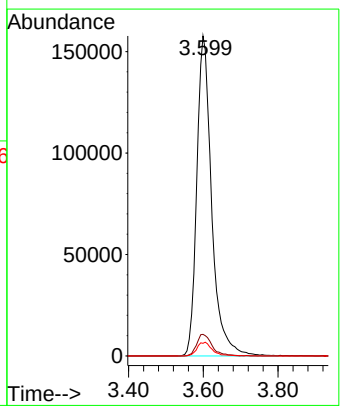


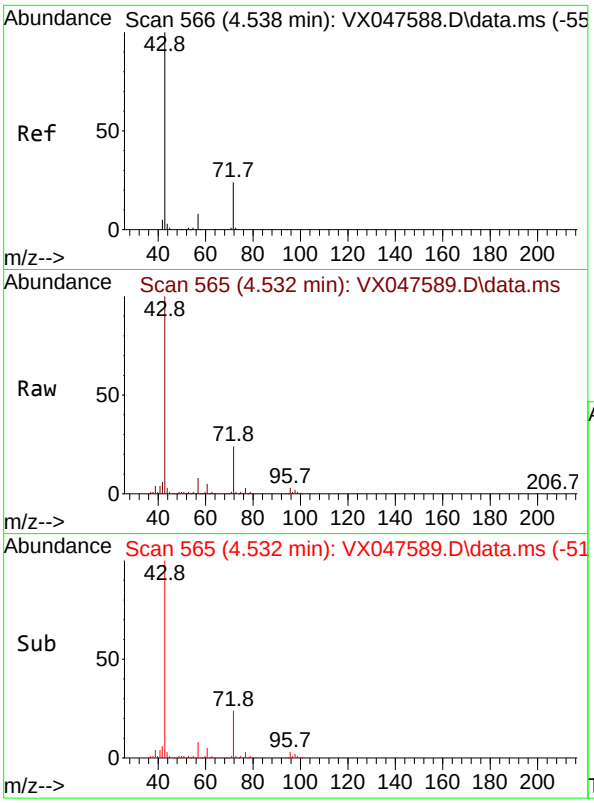


#24
1,1-Dichloroethane
Concen: 101.944 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 435815

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.0	2.3	6.9



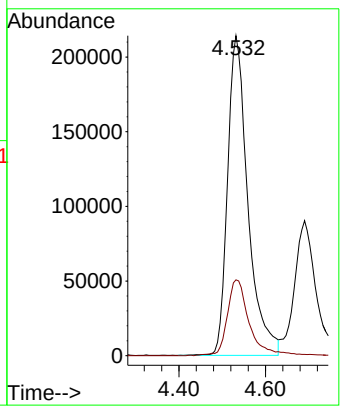


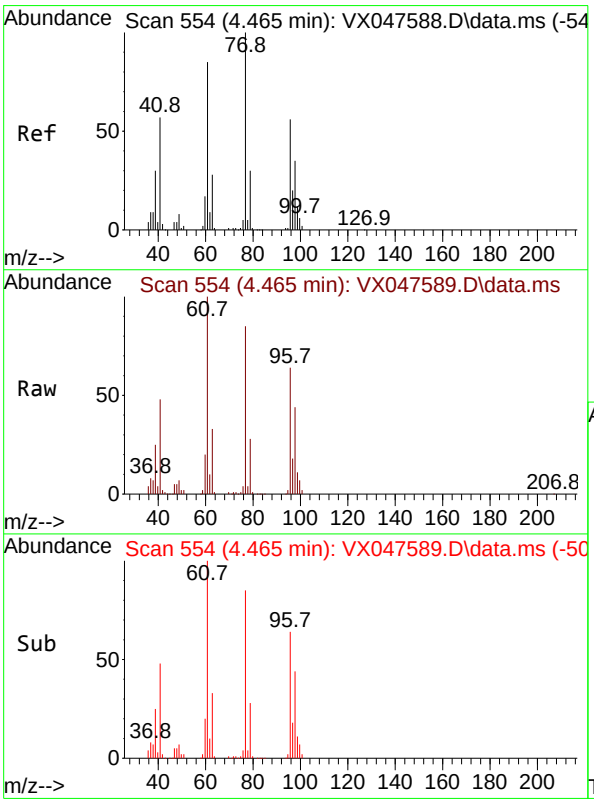
#25
2-Butanone
Concen: 479.558 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 700827

Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.1	30.1

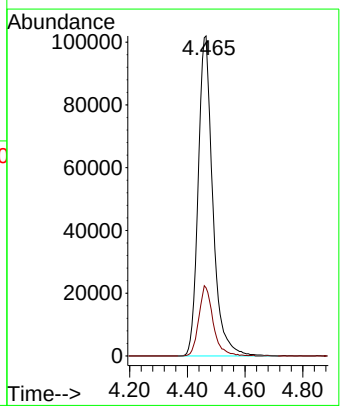


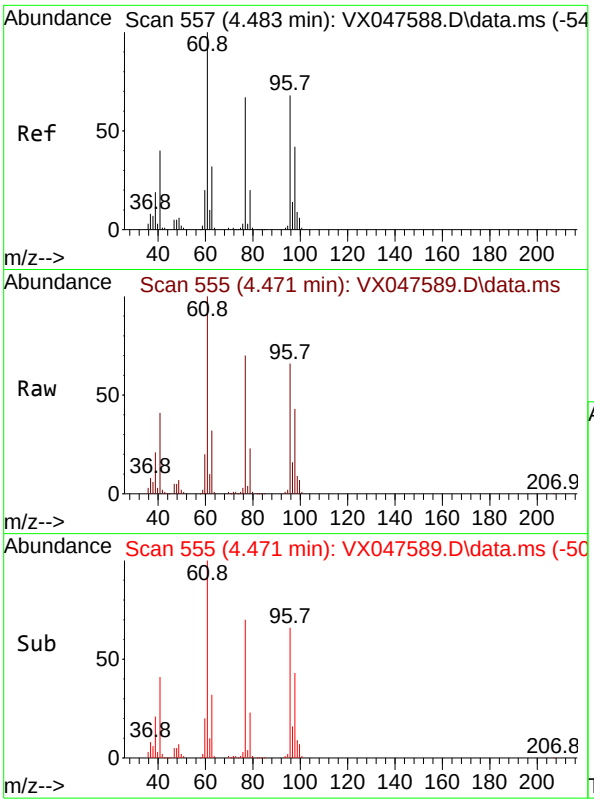


#26
2,2-Dichloropropane
Concen: 100.542 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 77 Resp: 357292

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.9	32.7



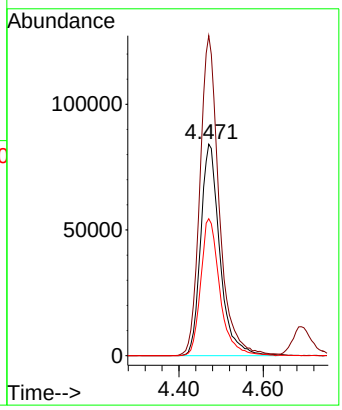


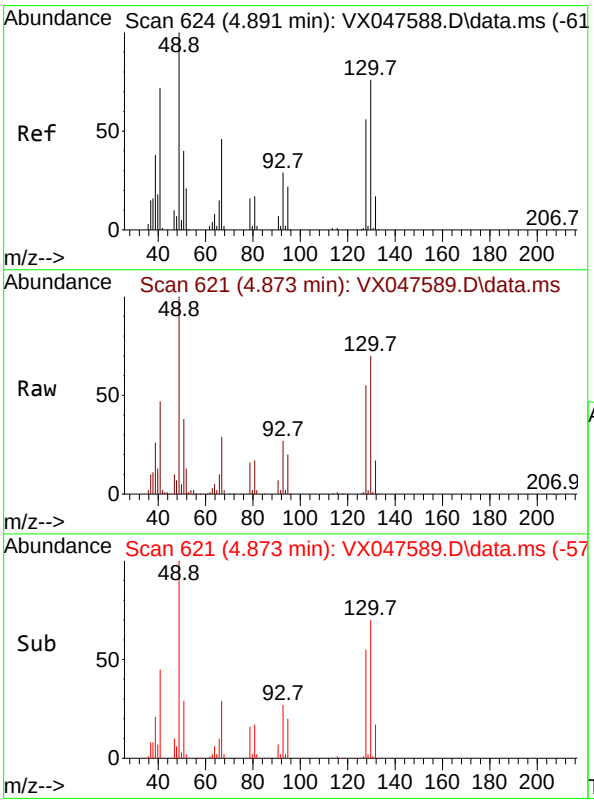
#27
cis-1,2-Dichloroethene
Concen: 100.516 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 266550

Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	303.2
98	64.4	0.0	127.8

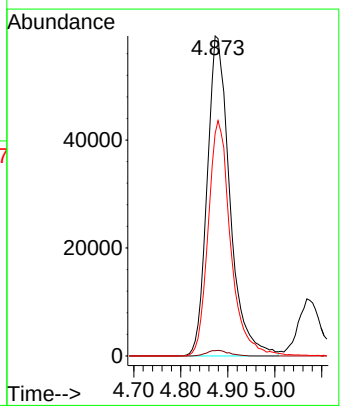


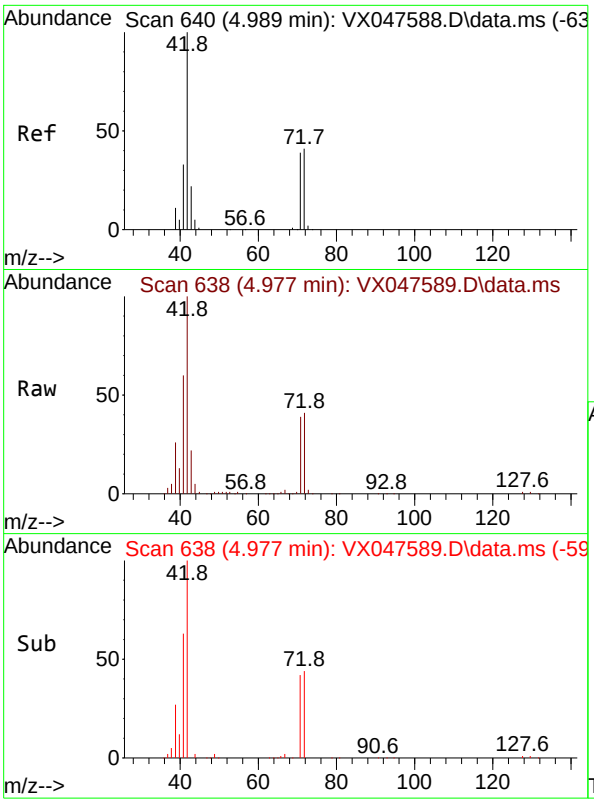


#28
Bromochloromethane
Concen: 106.512 ug/l
RT: 4.873 min Scan# 621
Delta R.T. -0.018 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 49 Resp: 198788

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	72.8	57.8	86.8



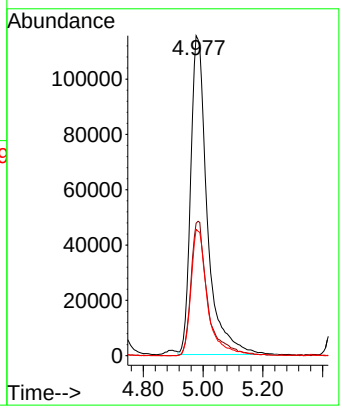


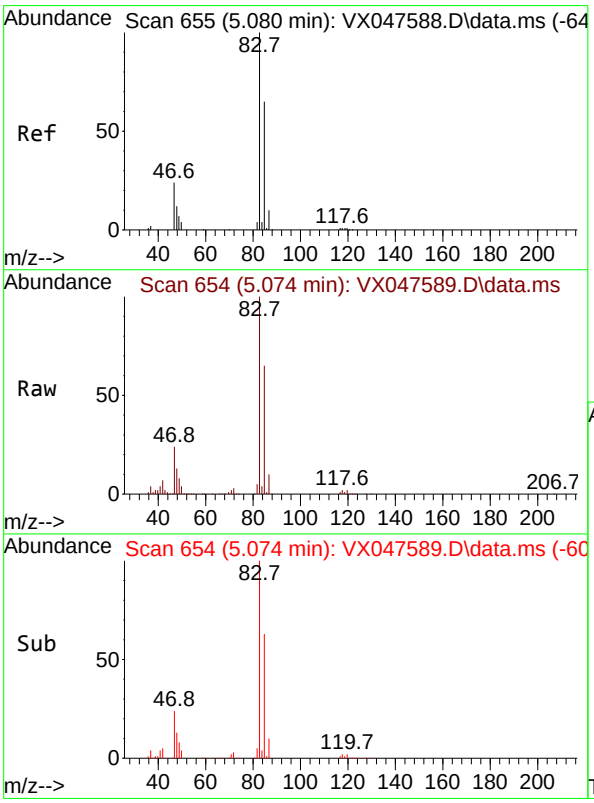
#29
Tetrahydrofuran
Concen: 504.502 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 443530

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.2	51.2
71	39.5	31.9	47.9

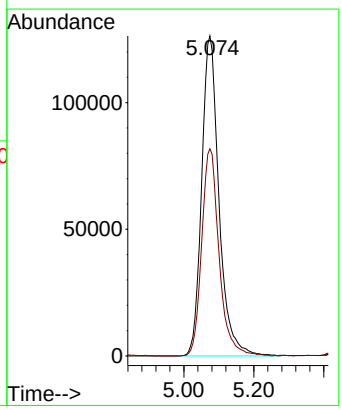


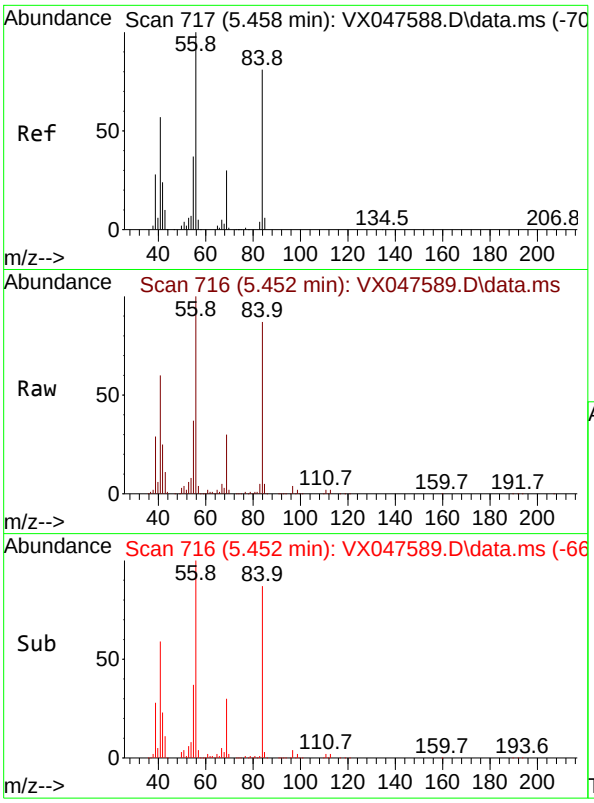


#30
Chloroform
Concen: 100.447 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 433937

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.6



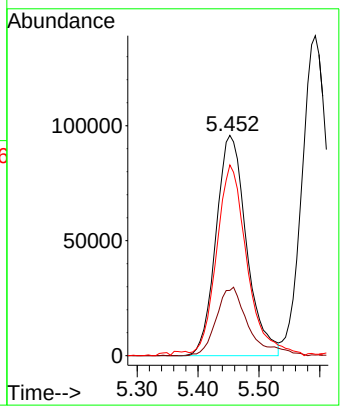


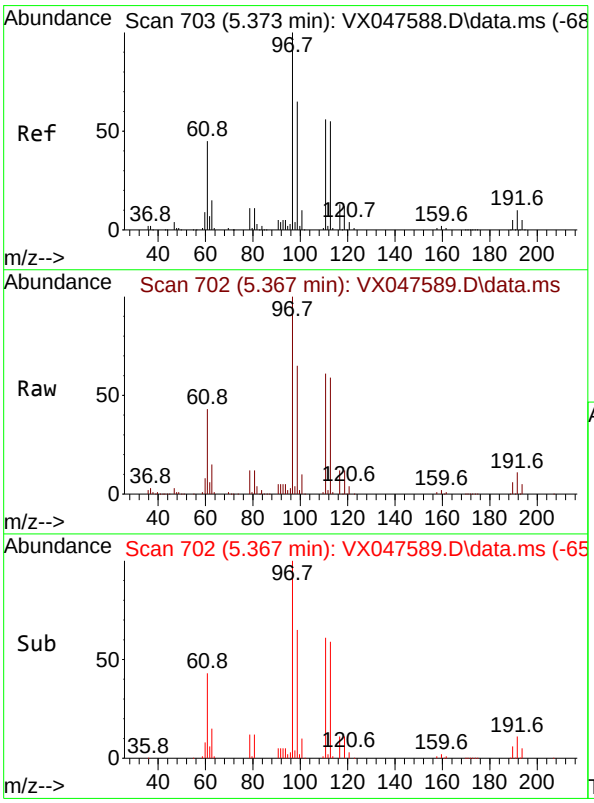
#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 332995

Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.8	35.8
84	84.7	64.6	97.0

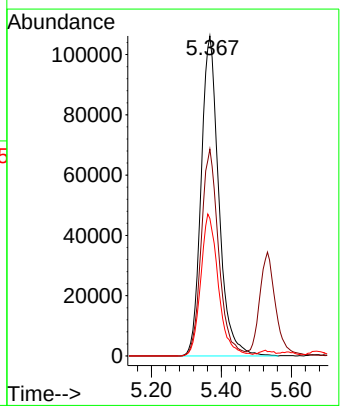


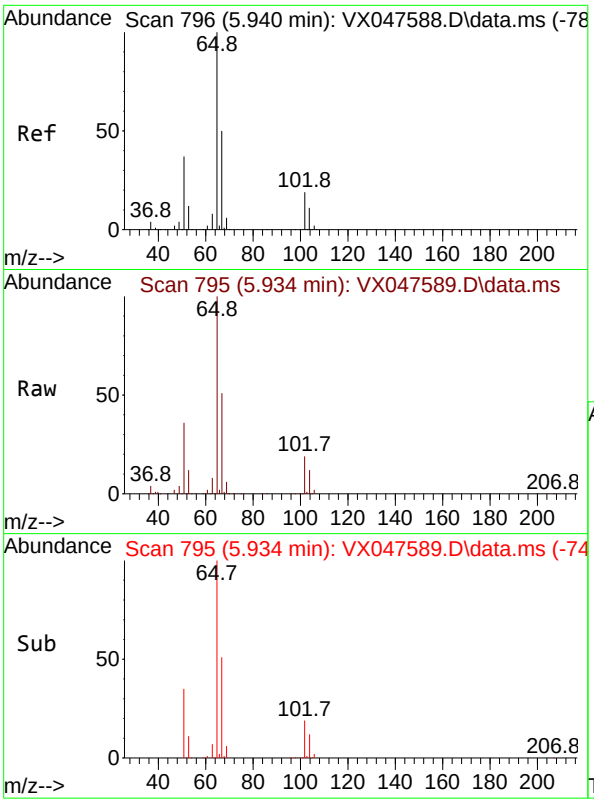


#32
1,1,1-Trichloroethane
Concen: 101.607 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 372323

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	44.4	35.8	53.8



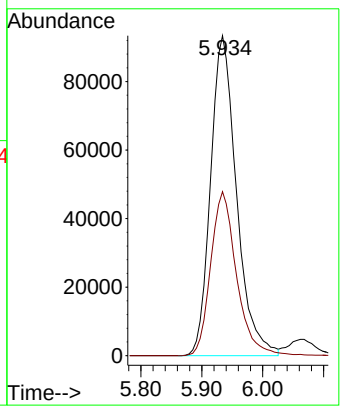


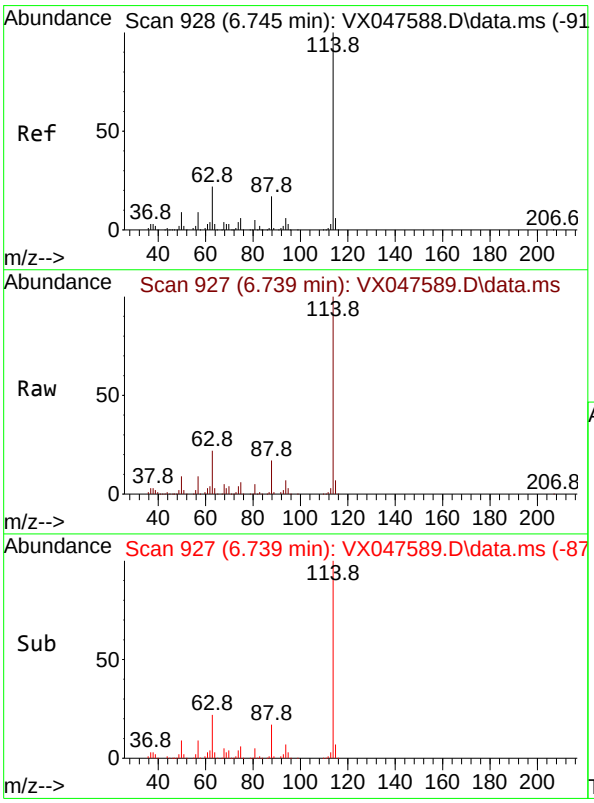
#33
1,2-Dichloroethane-d4
Concen: 102.341 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 275758

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0

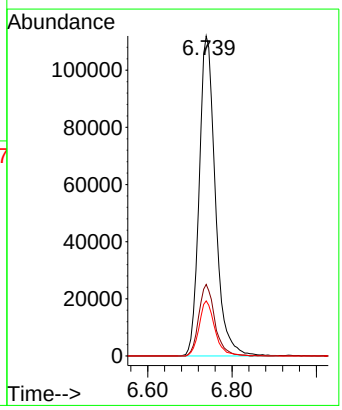


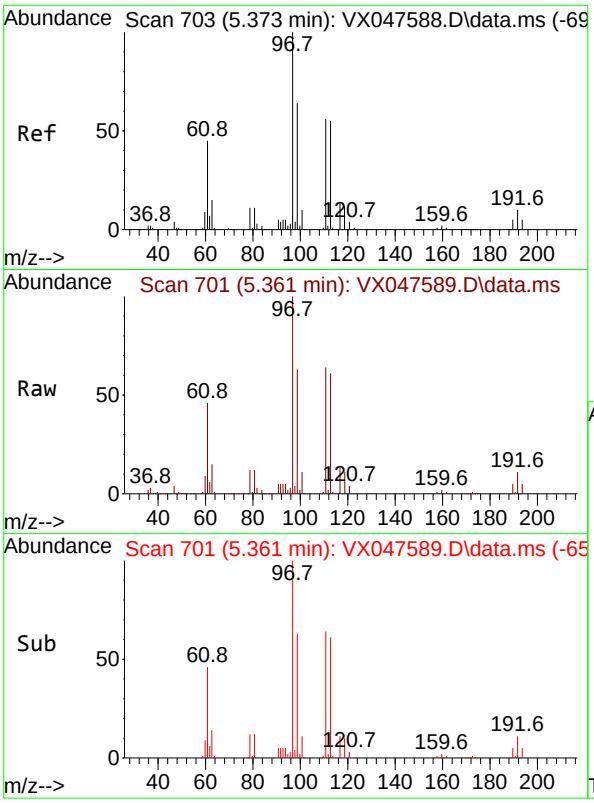


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:114 Resp: 298913

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	17.2	0.0	34.2



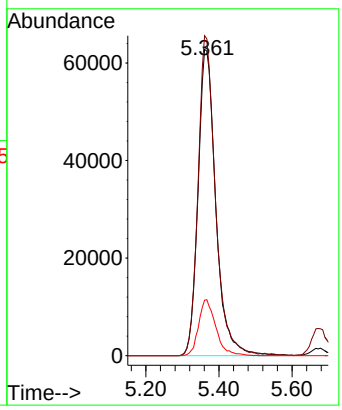


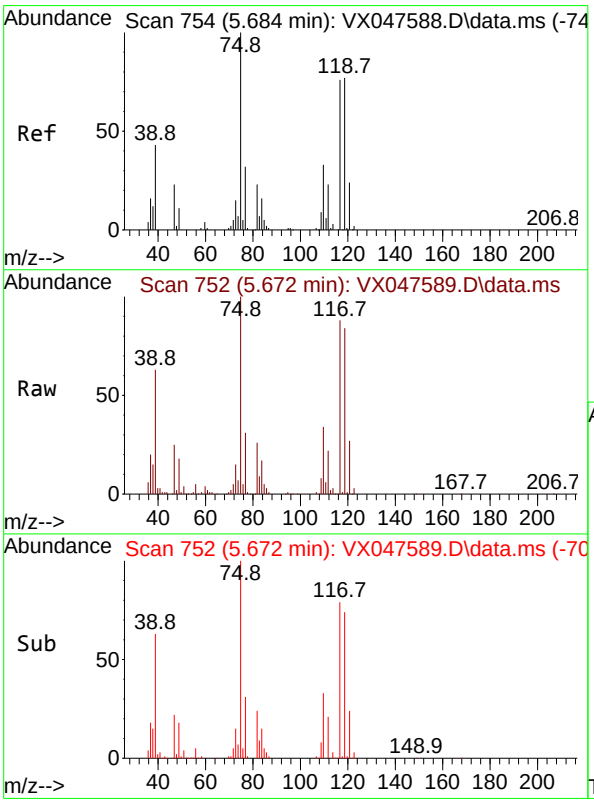
#35
Dibromofluoromethane
Concen: 105.962 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 212419

Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.9	121.3
192	17.7	14.2	21.4

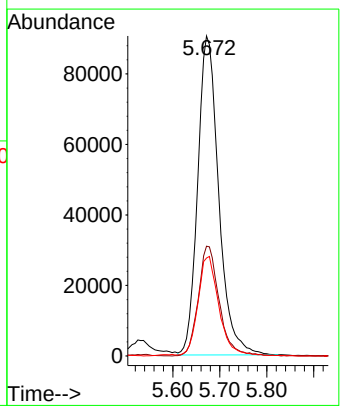


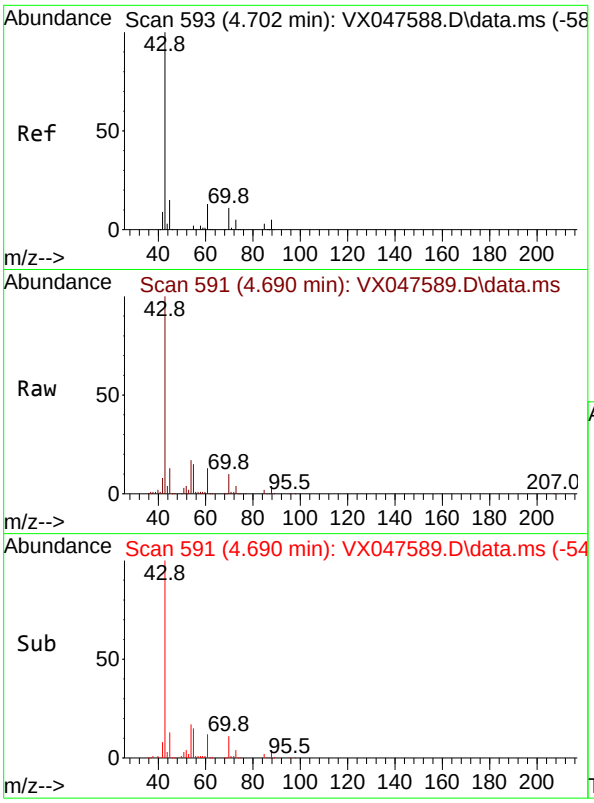


#36
1,1-Dichloropropene
Concen: 96.149 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 281650

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	31.3	24.3	36.5



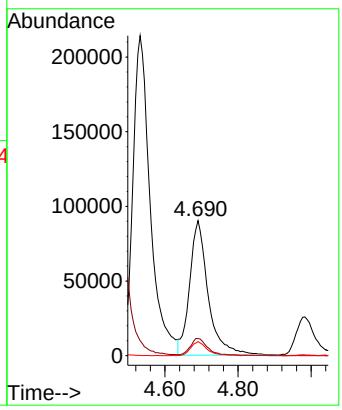


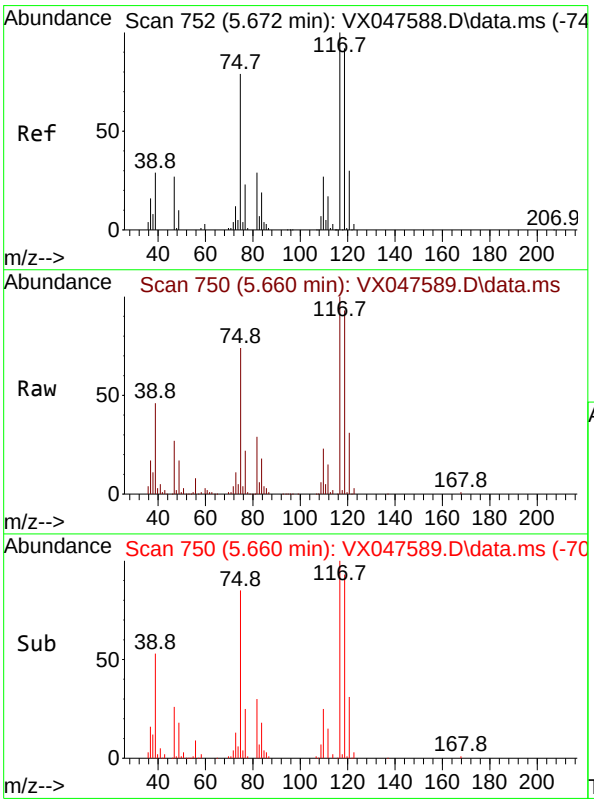
#37
Ethyl Acetate
Concen: 101.641 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 318793

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.9	11.9

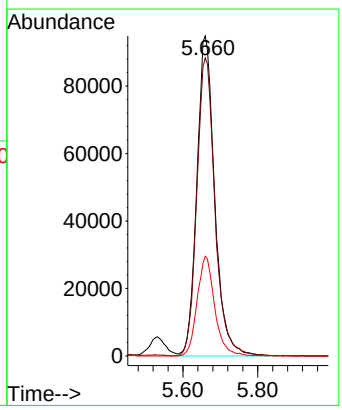


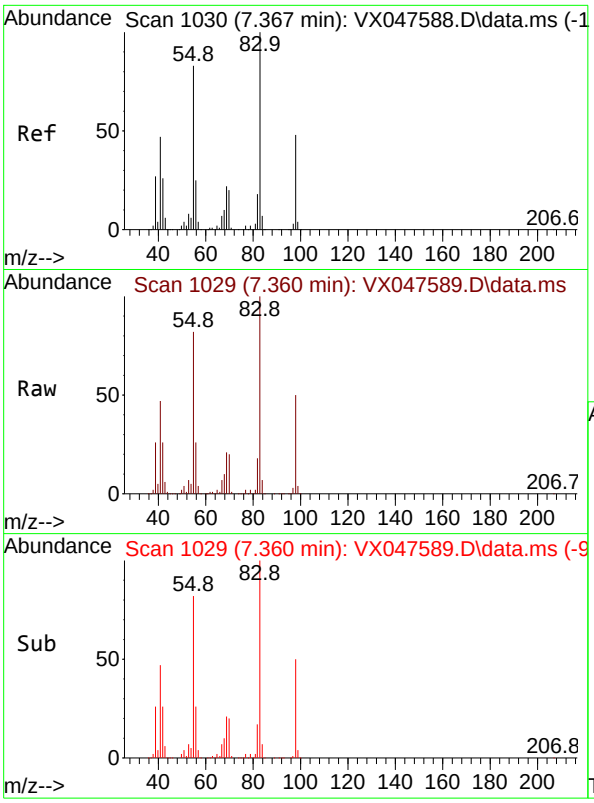


#38
Carbon Tetrachloride
Concen: 98.891 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 314745

Ion	Ratio	Lower	Upper
117	100		
119	93.0	73.4	110.2
121	31.2	23.8	35.6



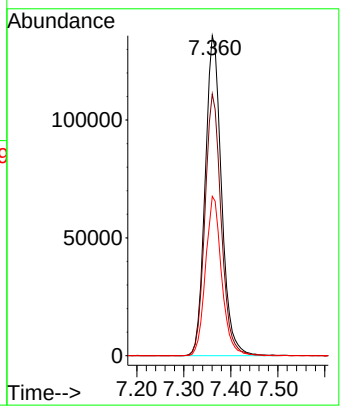


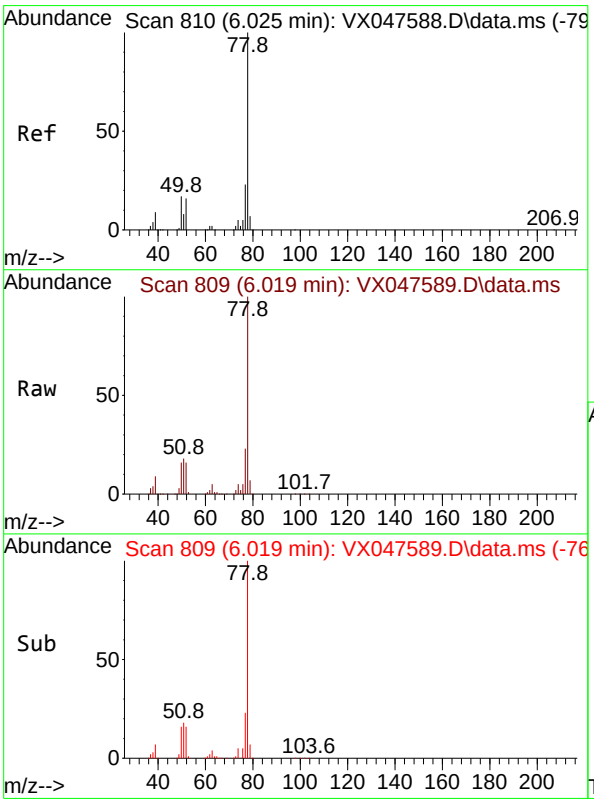
#39
Methylcyclohexane
Concen: 98.600 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 327858

Ion	Ratio	Lower	Upper
83	100		
55	81.8	66.4	99.6
98	49.8	38.1	57.1

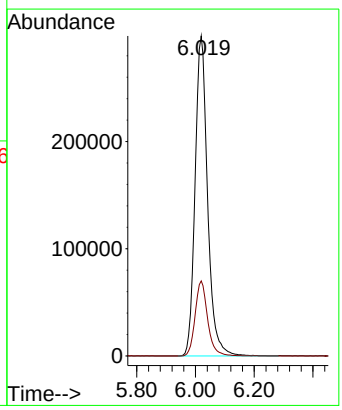


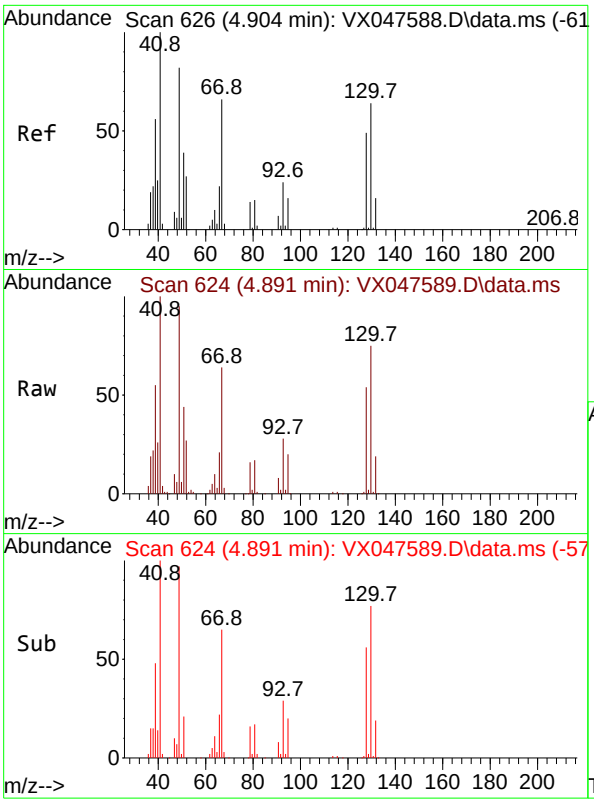


#40
Benzene
Concen: 99.009 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 78 Resp: 880885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



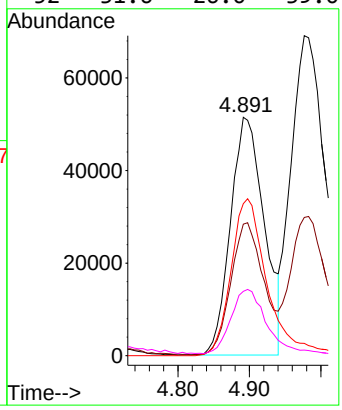


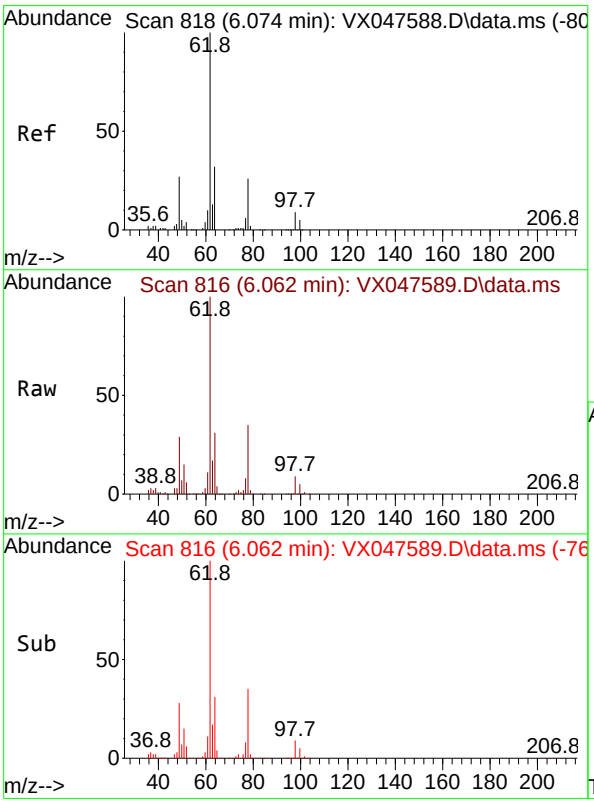
#41
Methacrylonitrile
Concen: 104.220 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 168753

Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.3	64.9
67	72.1	58.6	87.8
52	31.6	26.0	39.0

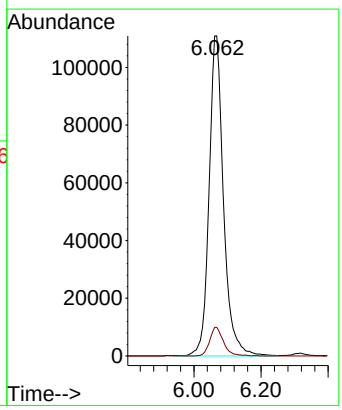


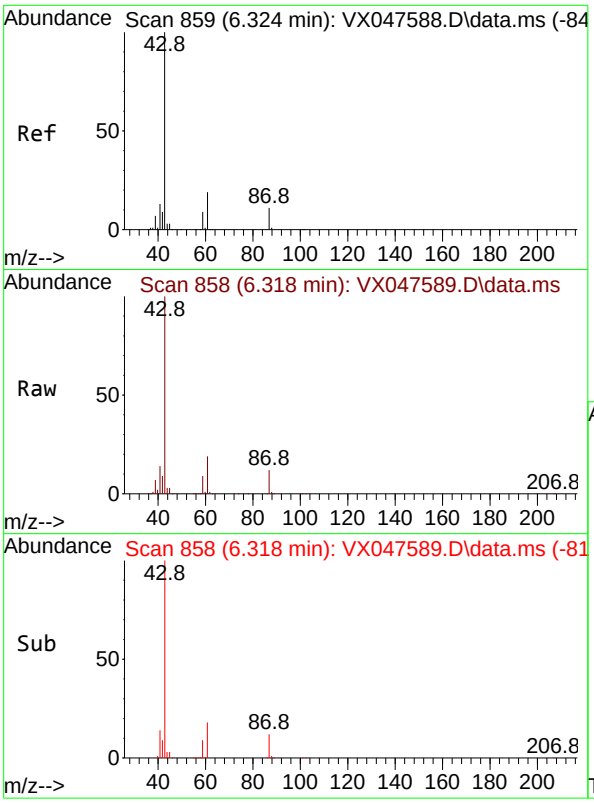


#42
1,2-Dichloroethane
Concen: 97.916 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 331465

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.0



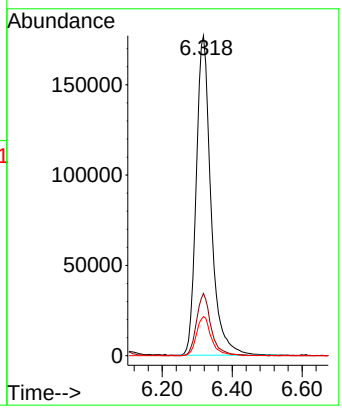


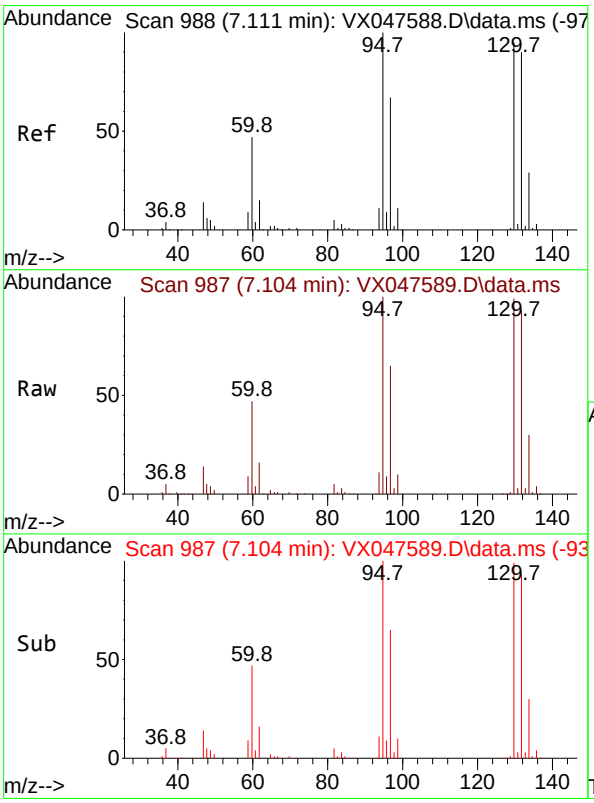
#43
Isopropyl Acetate
Concen: 100.482 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 516875

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.3	9.6	14.4

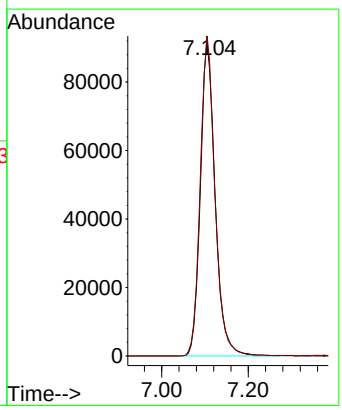


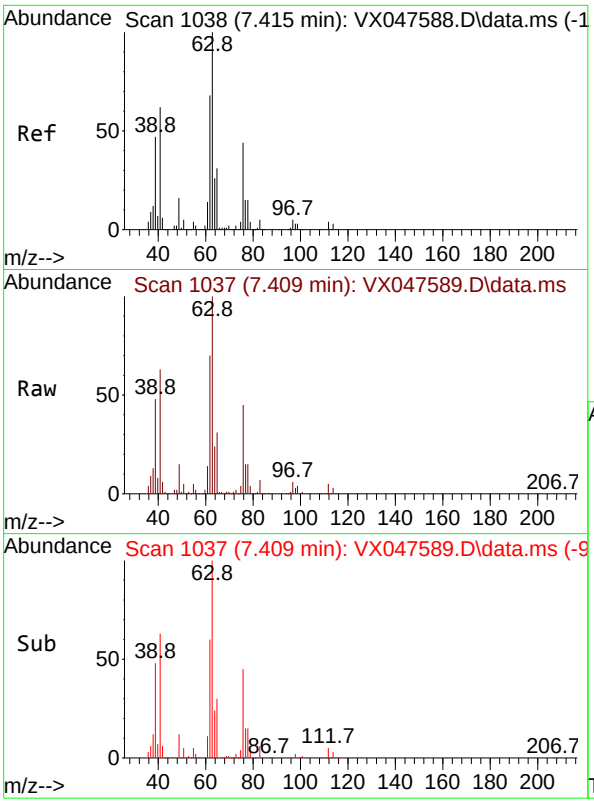


#44
Trichloroethene
Concen: 101.234 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:130 Resp: 217753

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	210.8



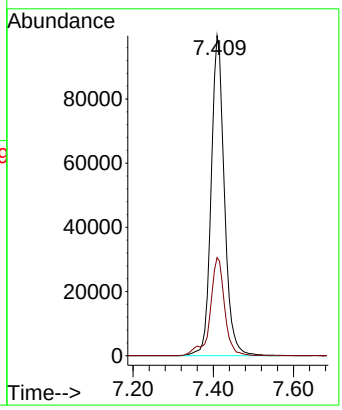


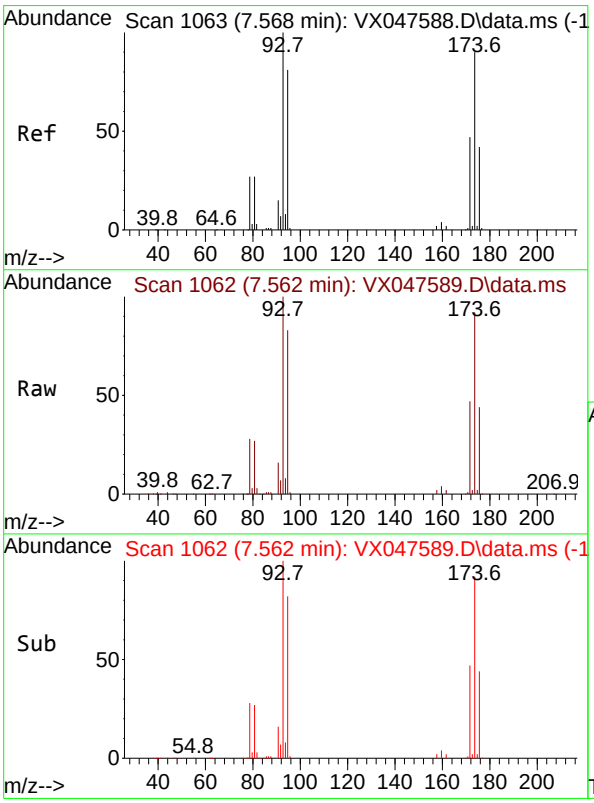
#45
1,2-Dichloropropane
Concen: 100.145 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 228150

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

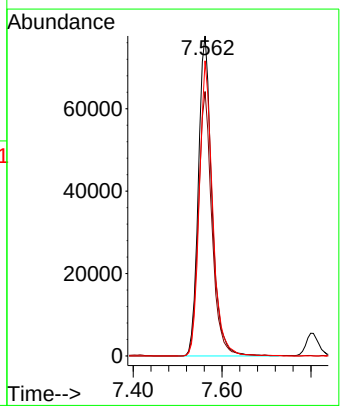


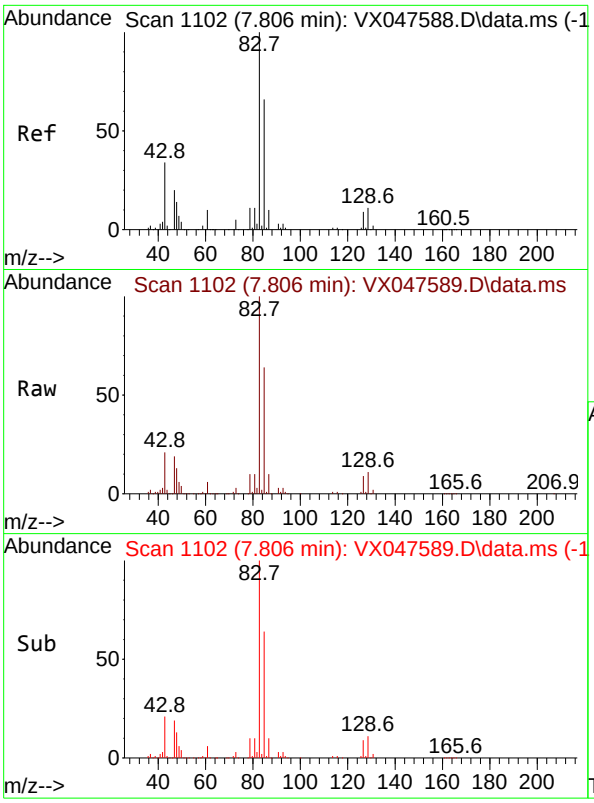


#46
Dibromomethane
Concen: 99.519 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 93 Resp: 164987

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.0	97.6
174	90.5	71.6	107.4



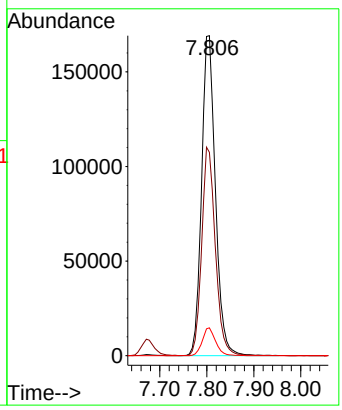


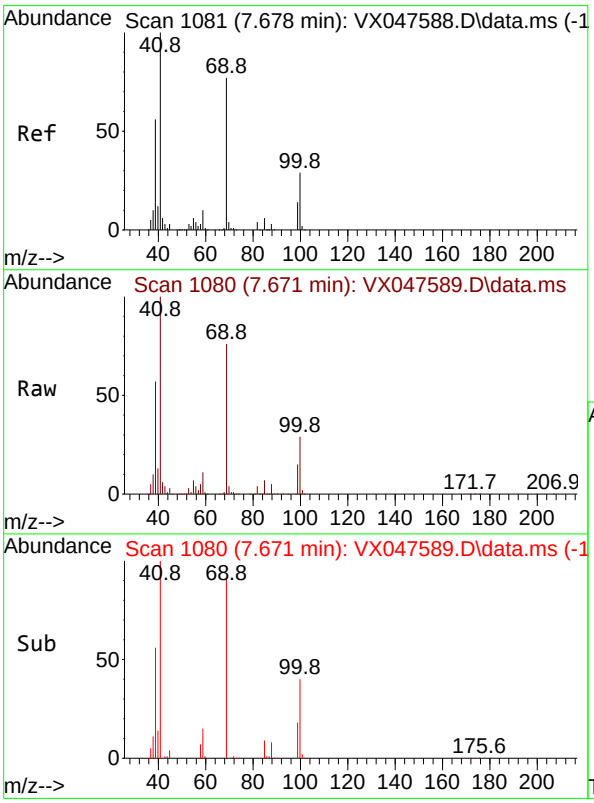
#47
Bromodichloromethane
Concen: 101.136 ug/l
RT: 7.806 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 345991

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.7	6.9	10.3

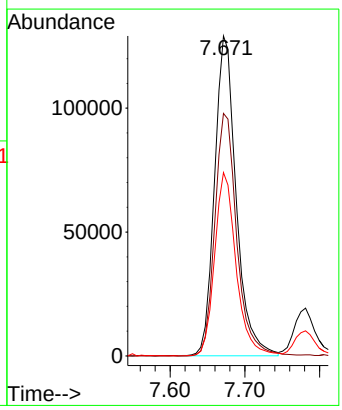


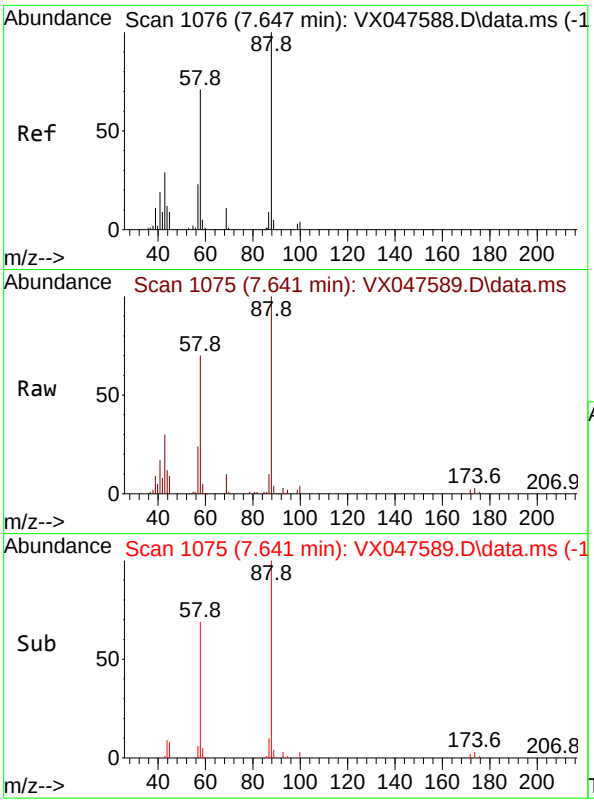


#48
Methyl methacrylate
Concen: 101.612 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 260358

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	57.0	45.8	68.6



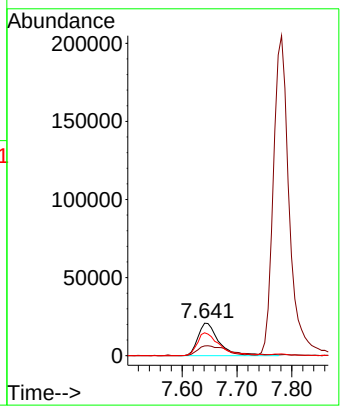


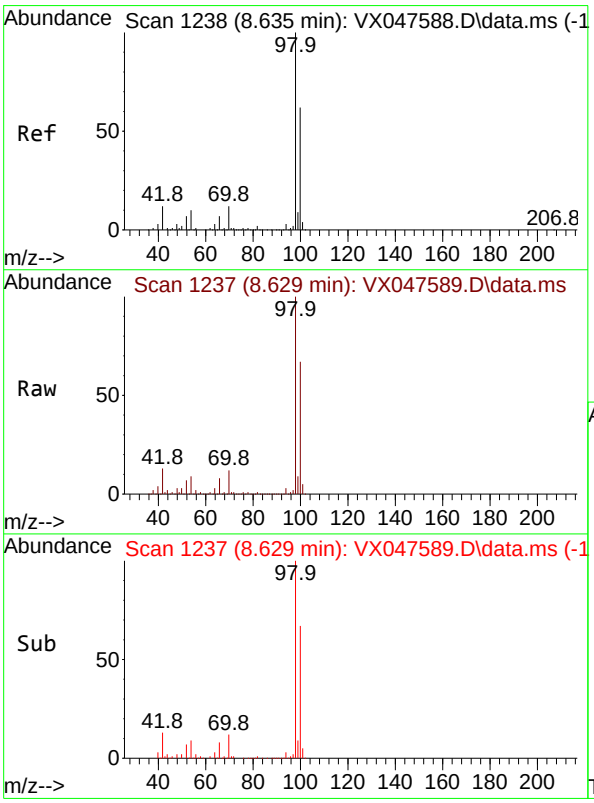
#49
1,4-Dioxane
Concen: 2190.315 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 56717

Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.2	45.2
58	74.0	59.5	89.3

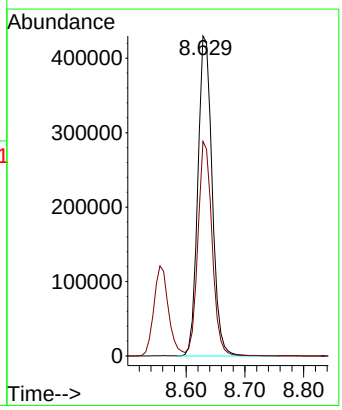


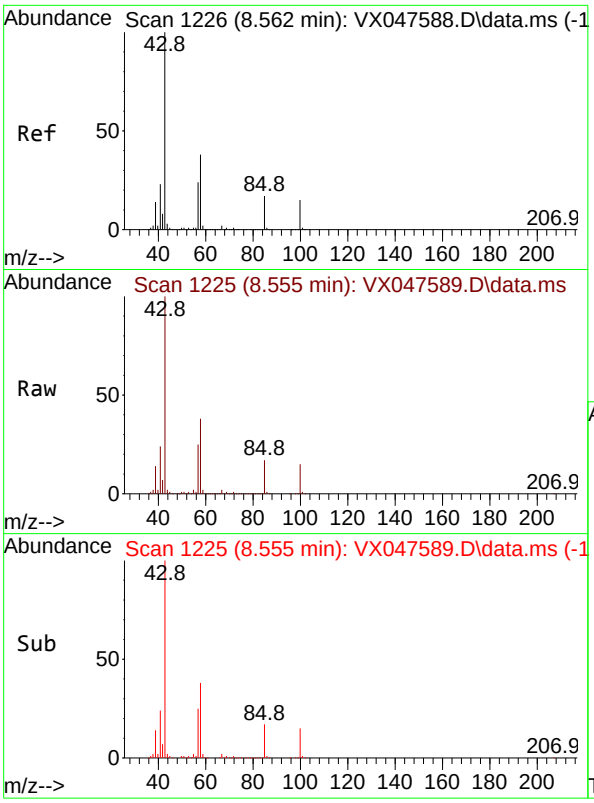


#50
Toluene-d8
Concen: 104.386 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 98 Resp: 724078

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4



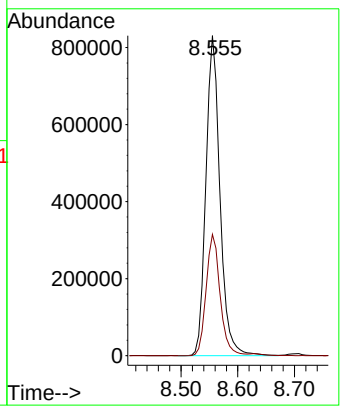


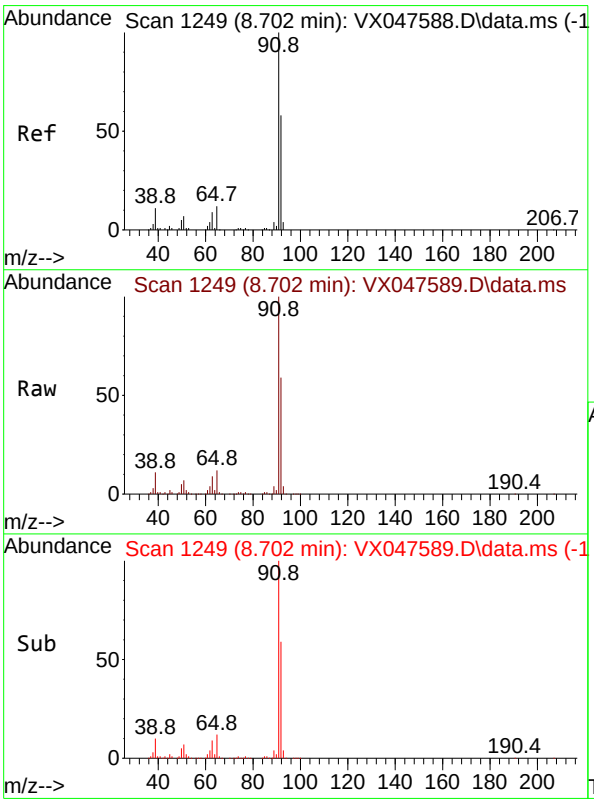
#51
4-Methyl-2-Pentanone
Concen: 501.834 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1431253

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

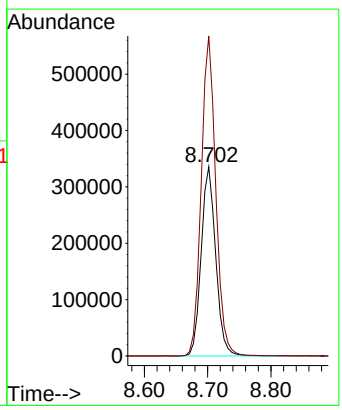


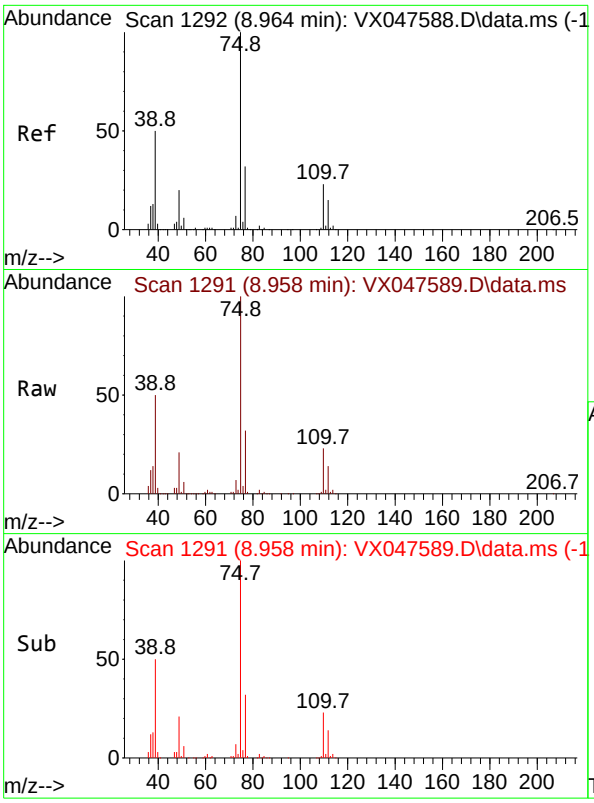


#52
Toluene
Concen: 97.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 92 Resp: 536148

Ion	Ratio	Lower	Upper
92	100		
91	169.3	137.1	205.7



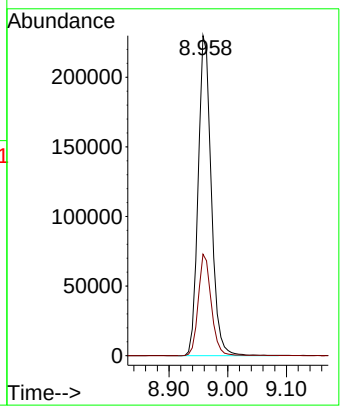


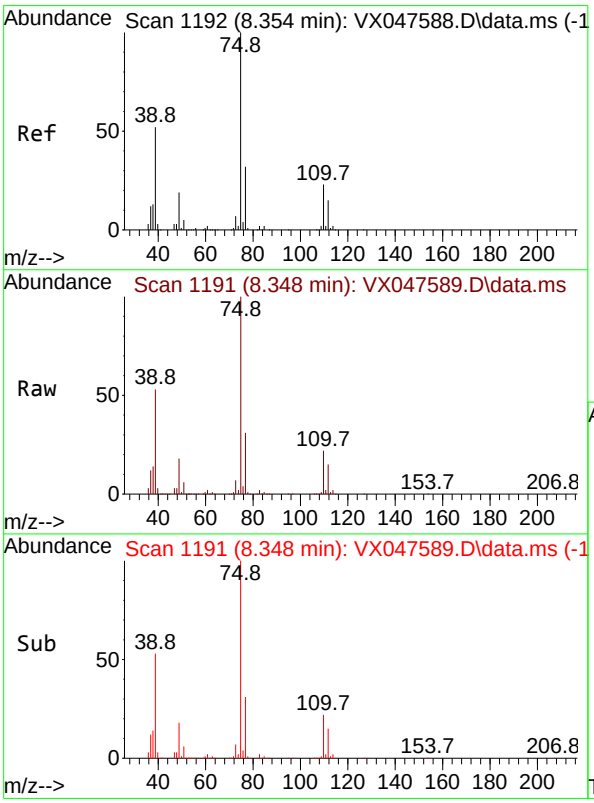
#53
t-1,3-Dichloropropene
Concen: 101.986 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 355881

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2

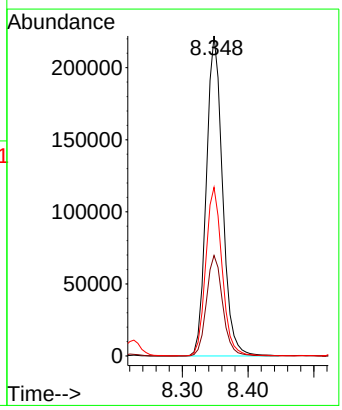


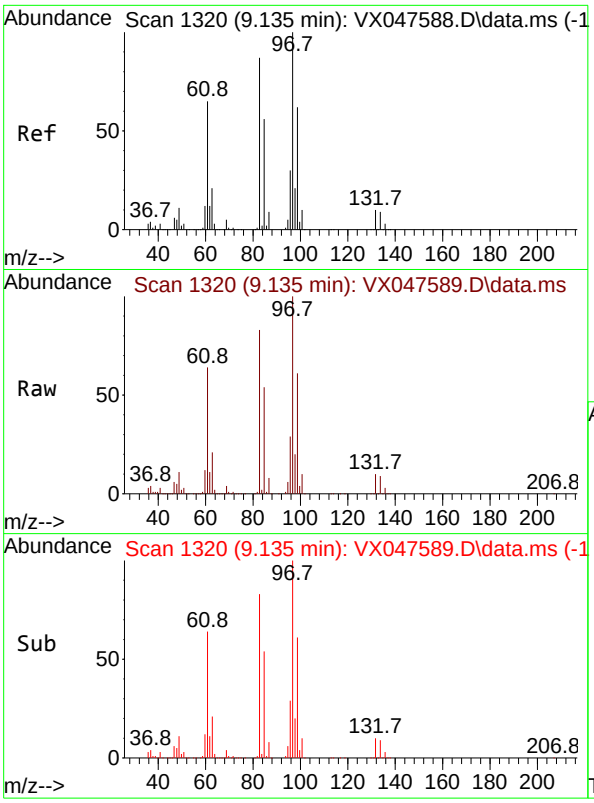


#54
cis-1,3-Dichloropropene
Concen: 102.038 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 380577

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	52.3	41.4	62.2



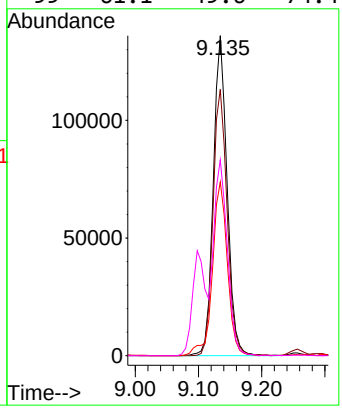


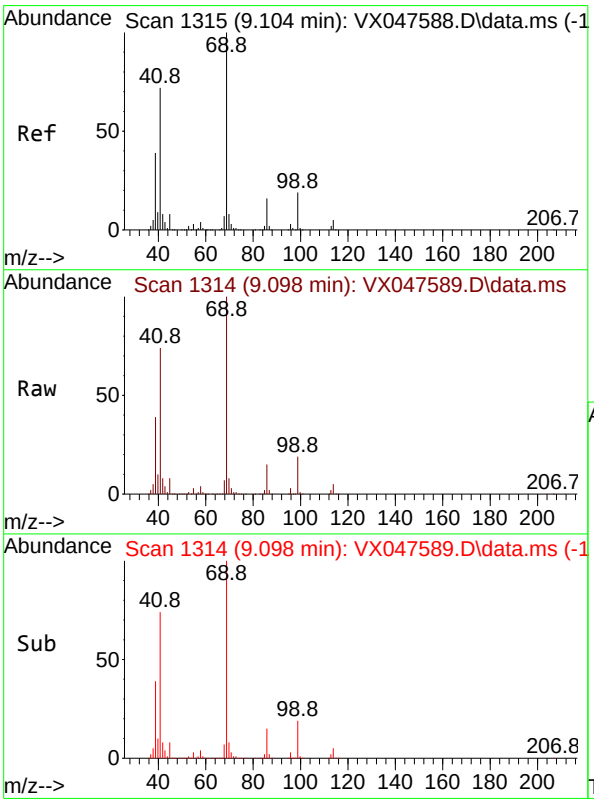
#55
1,1,2-Trichloroethane
Concen: 97.434 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 205939

Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.6	104.4
85	54.3	45.0	67.6
99	61.1	49.6	74.4

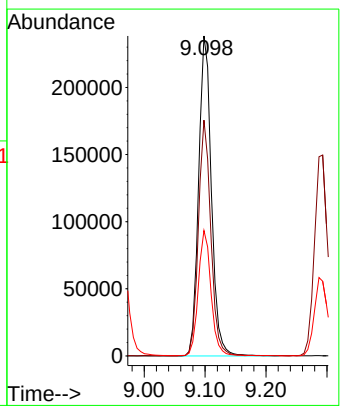


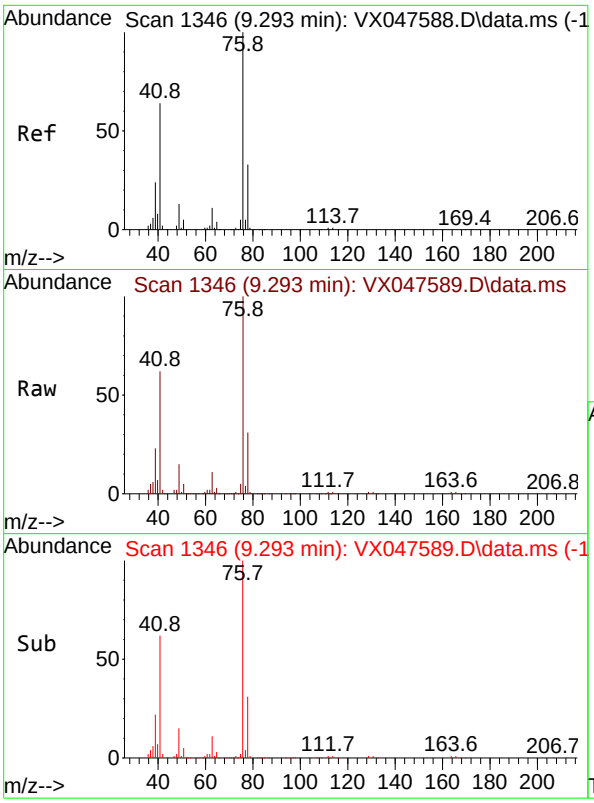


#56
Ethyl methacrylate
Concen: 104.435 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 69 Resp: 346659

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3



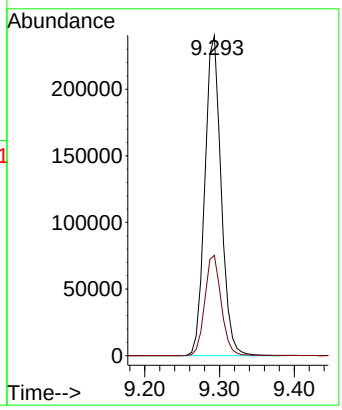


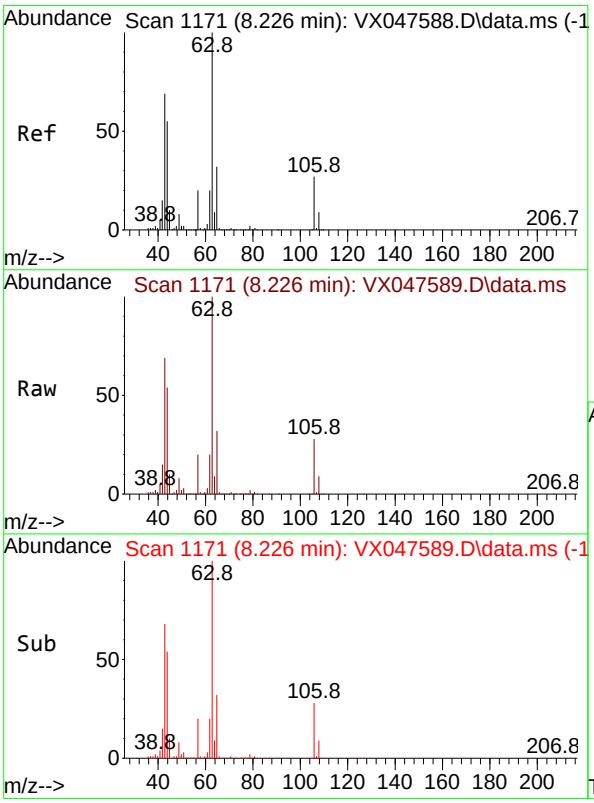
#57
1,3-Dichloropropane
Concen: 99.935 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 362848

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4

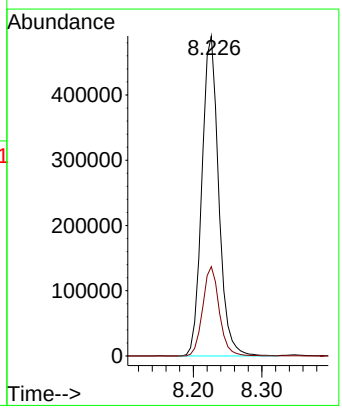


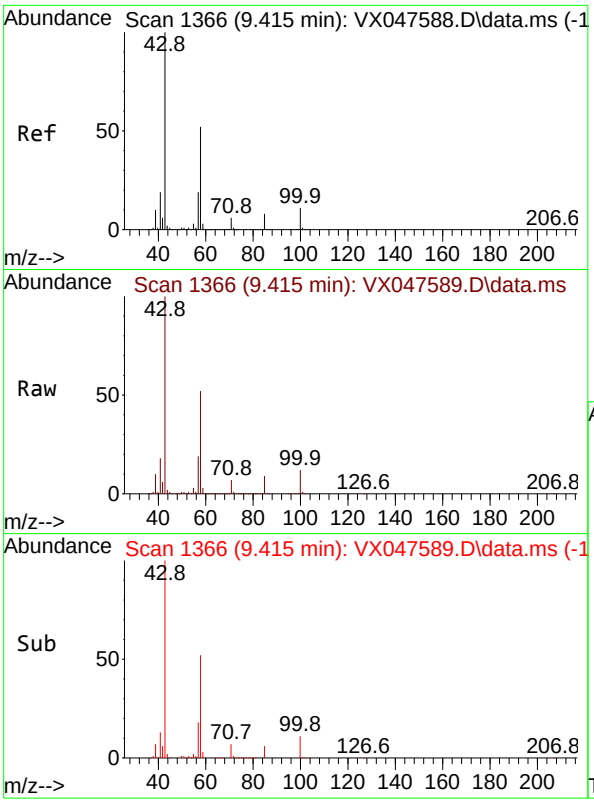


#58
2-Chloroethyl Vinyl ether
Concen: 499.814 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 836362

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



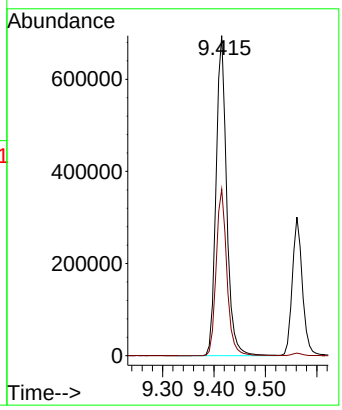


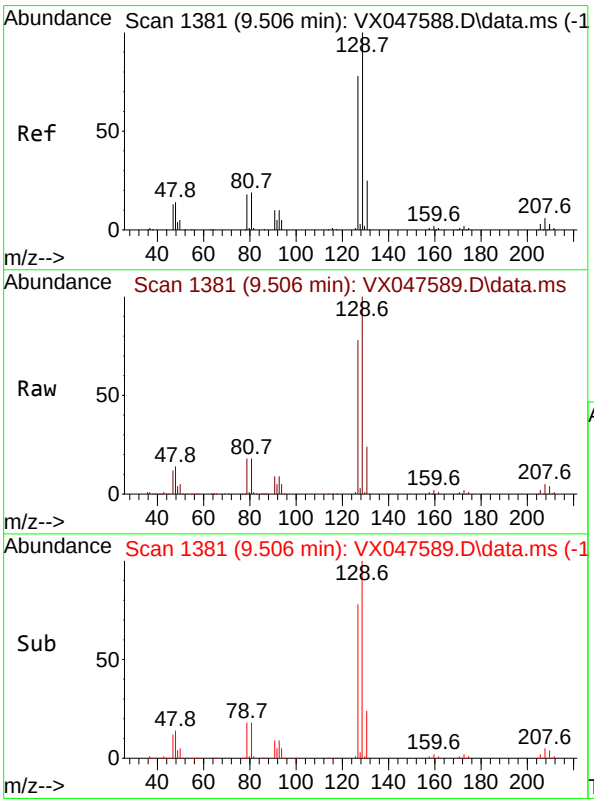
#59
2-Hexanone
Concen: 486.380 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 996274

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.2

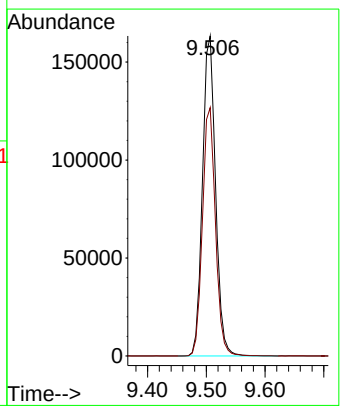


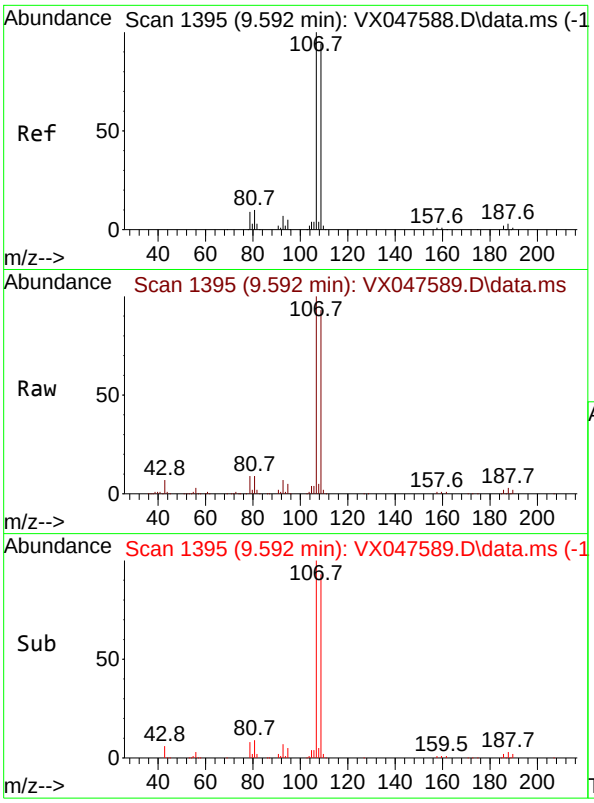


#60
Dibromochloromethane
Concen: 103.226 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:129 Resp: 251394

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.4	115.2



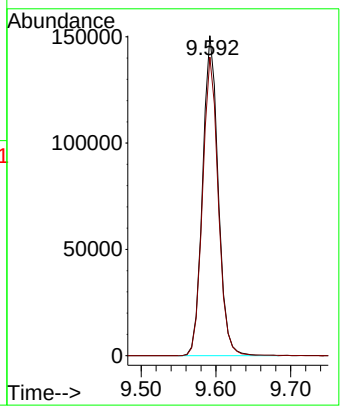


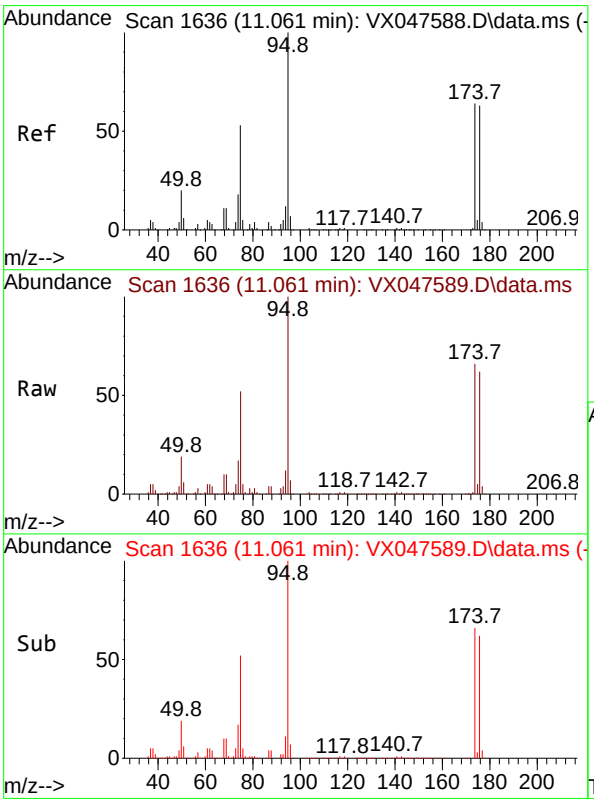
#61
1,2-Dibromoethane
Concen: 101.147 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 217751

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.3	112.9

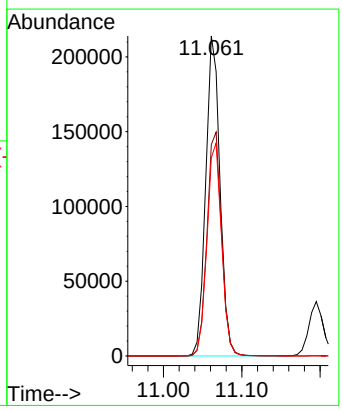


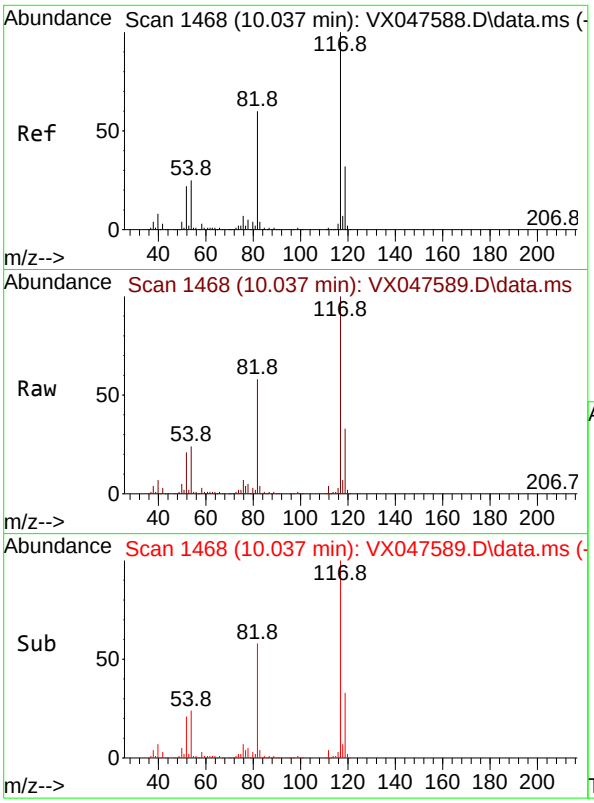


#62
4-Bromofluorobenzene
Concen: 102.672 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 95 Resp: 270289

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.0	0.0	138.4



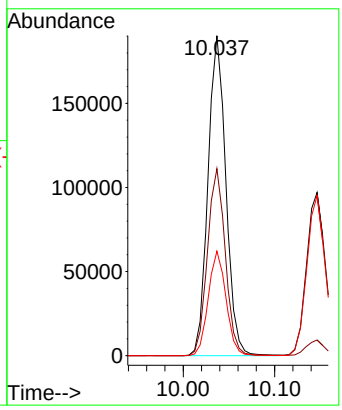


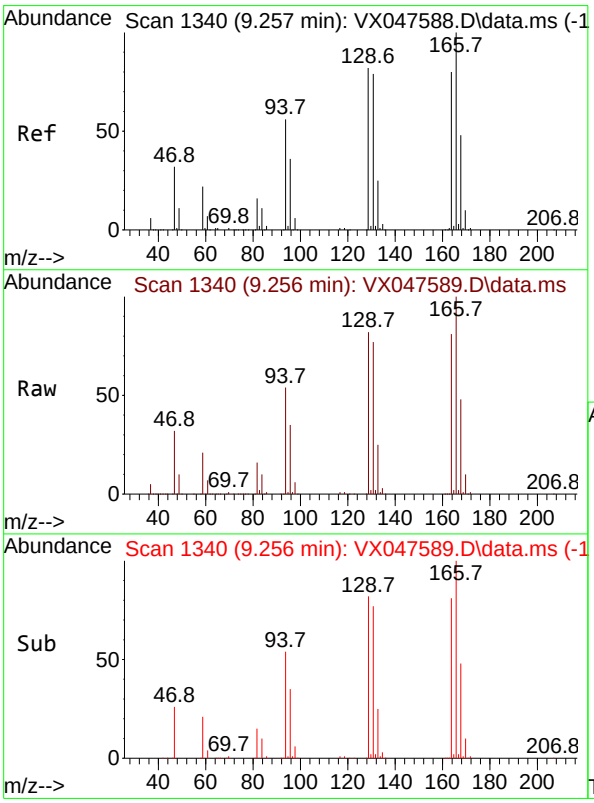
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 258399

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.7	25.2	37.8

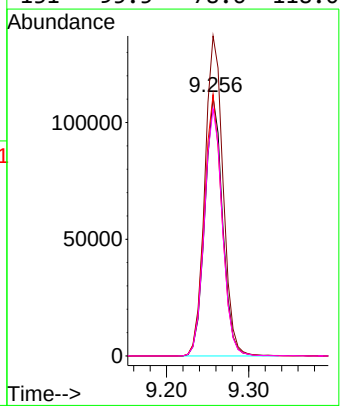


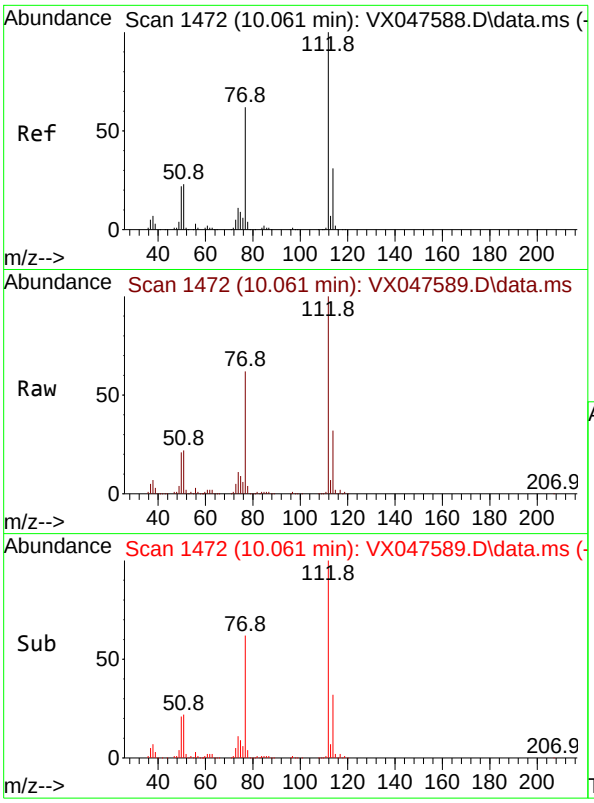


#64
Tetrachloroethene
Concen: 98.284 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:164 Resp: 165559

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.2	150.2
129	100.9	81.8	122.6
131	95.5	78.6	118.0



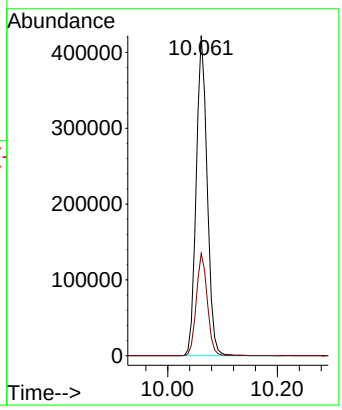


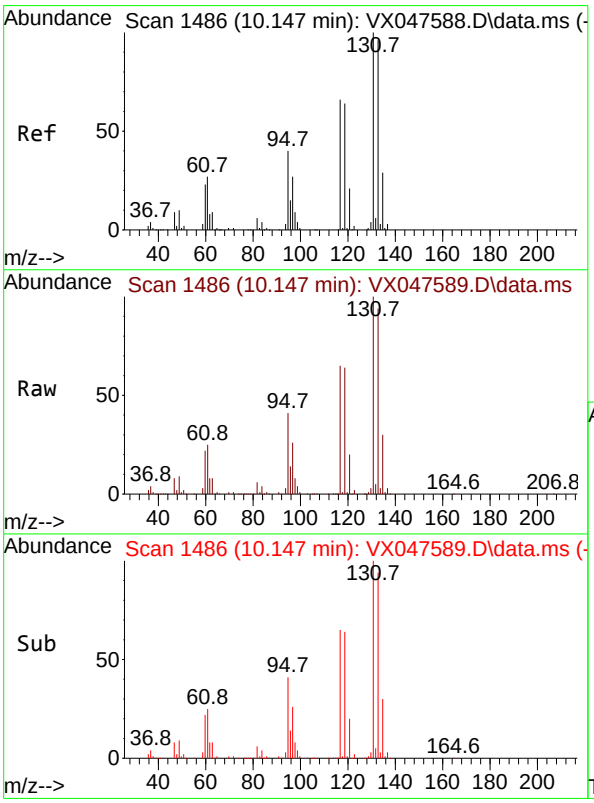
#65
Chlorobenzene
Concen: 100.253 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 588517

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.1	37.7

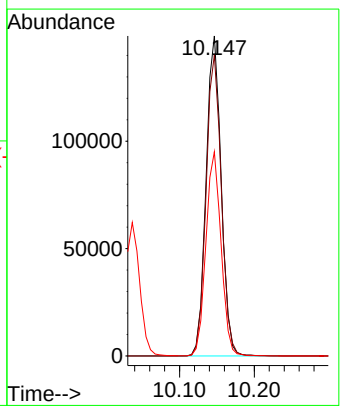


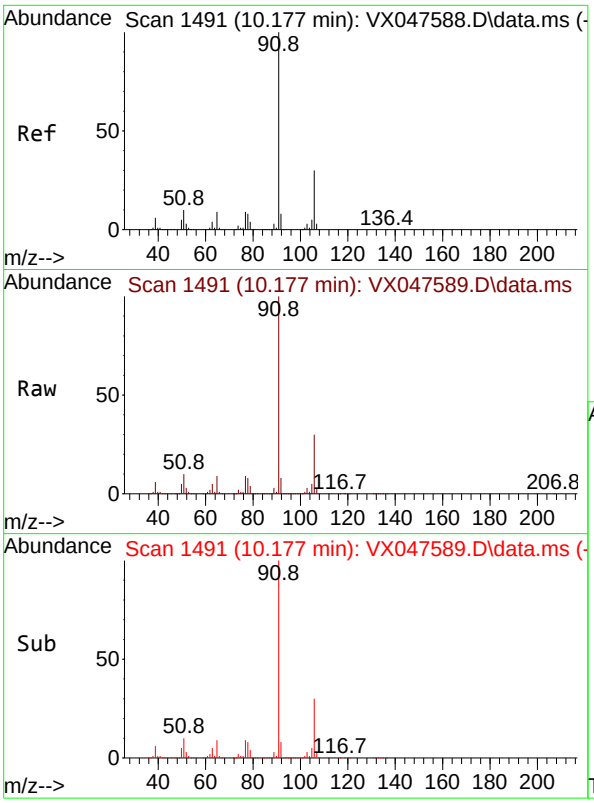


#66
1,1,1,2-Tetrachloroethane
Concen: 102.988 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:131 Resp: 208621

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	64.2	32.0	96.0



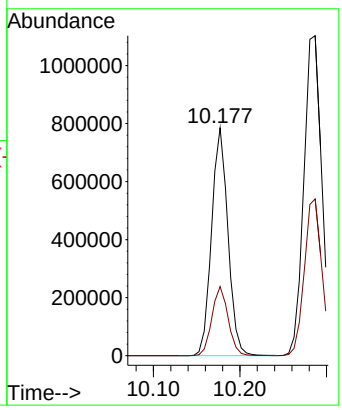


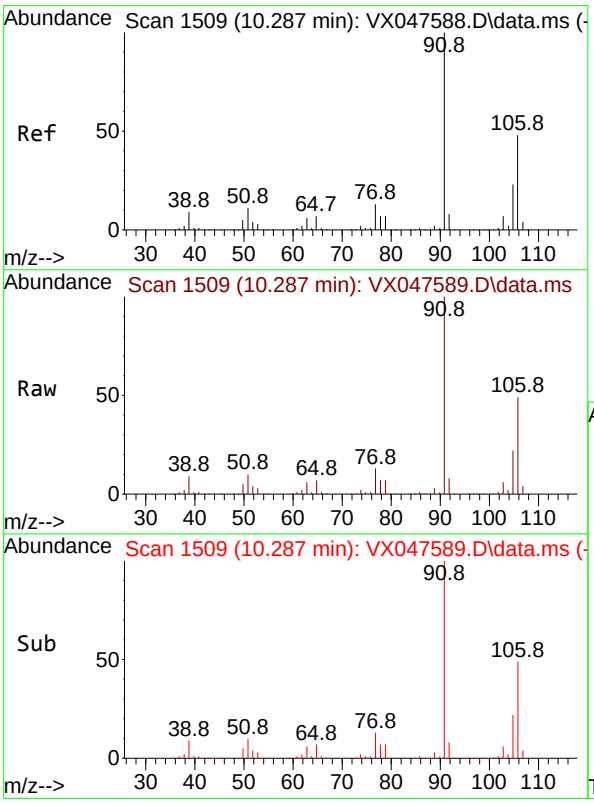
#67
Ethyl Benzene
Concen: 101.823 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1031346

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

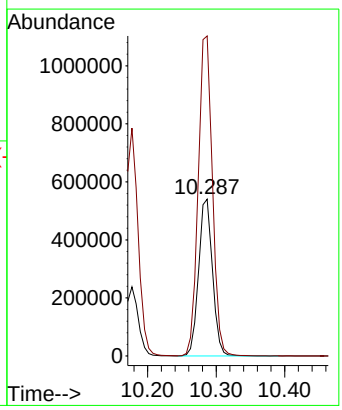


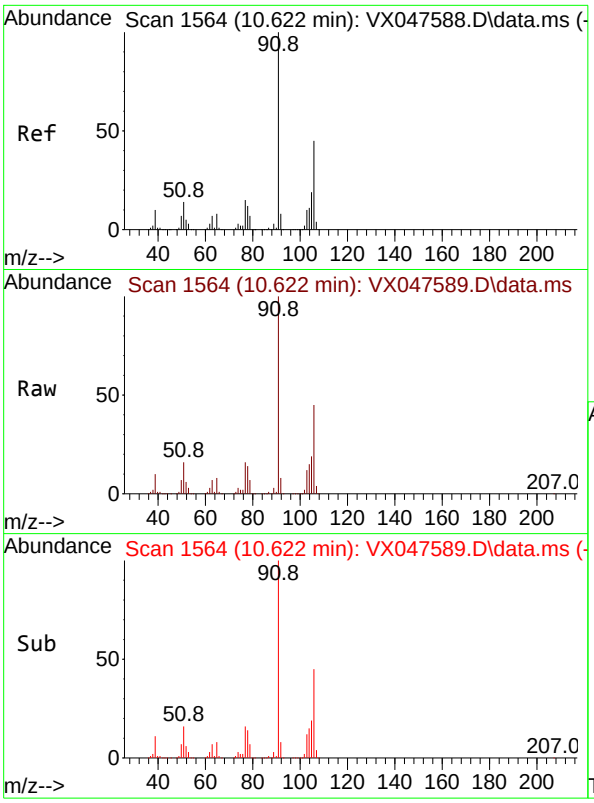


#68
m/p-Xylenes
Concen: 202.624 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:106 Resp: 763898

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



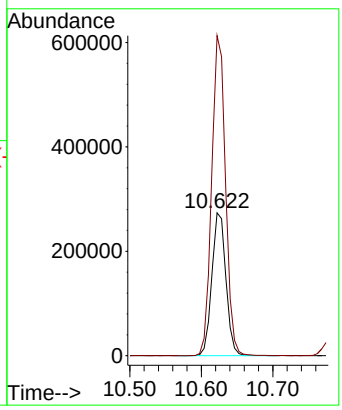


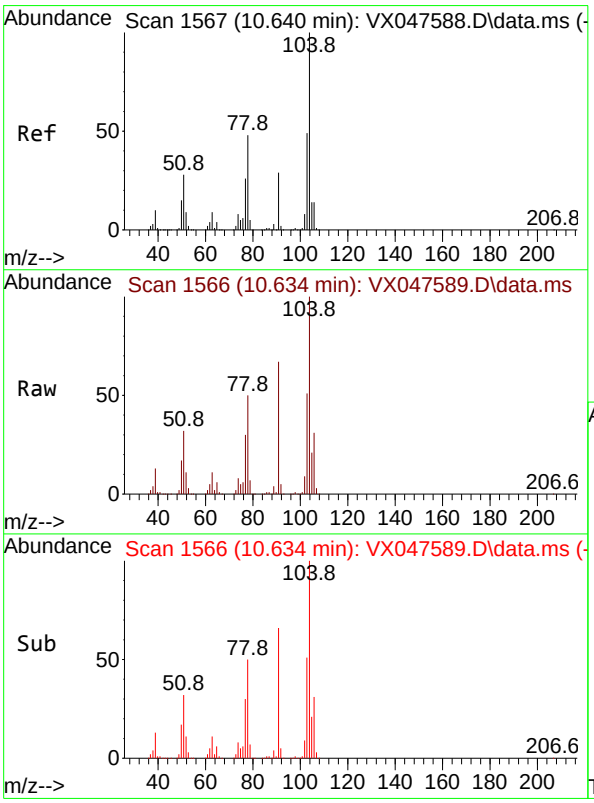
#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 372621

Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.1	333.4

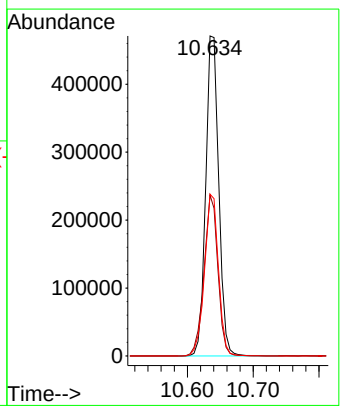


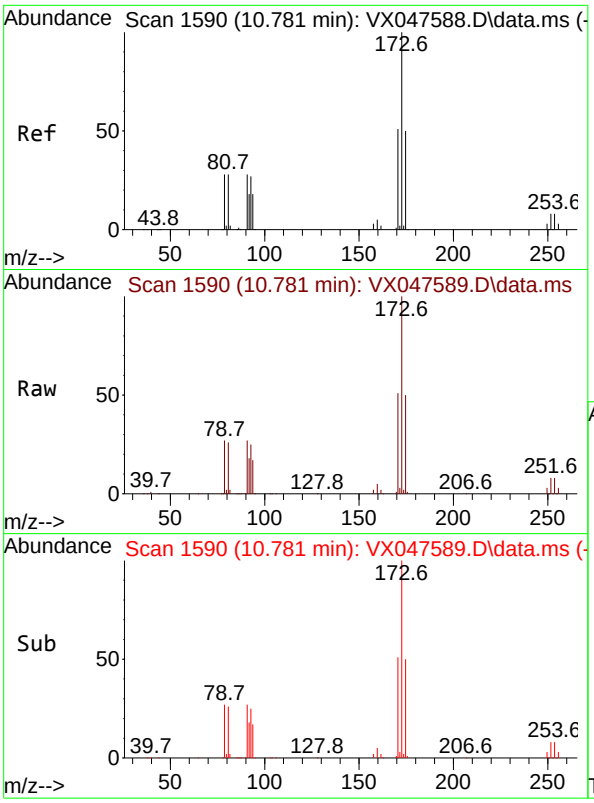


#70
Styrene
Concen: 101.710 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:104 Resp: 649863

Ion	Ratio	Lower	Upper
104	100		
78	53.5	43.1	64.7
103	54.1	43.1	64.7



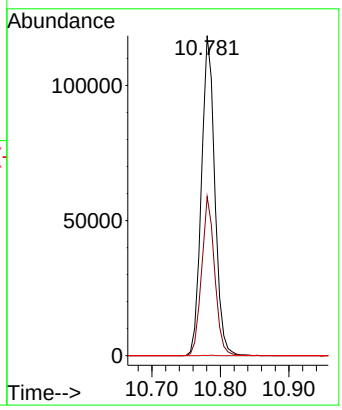


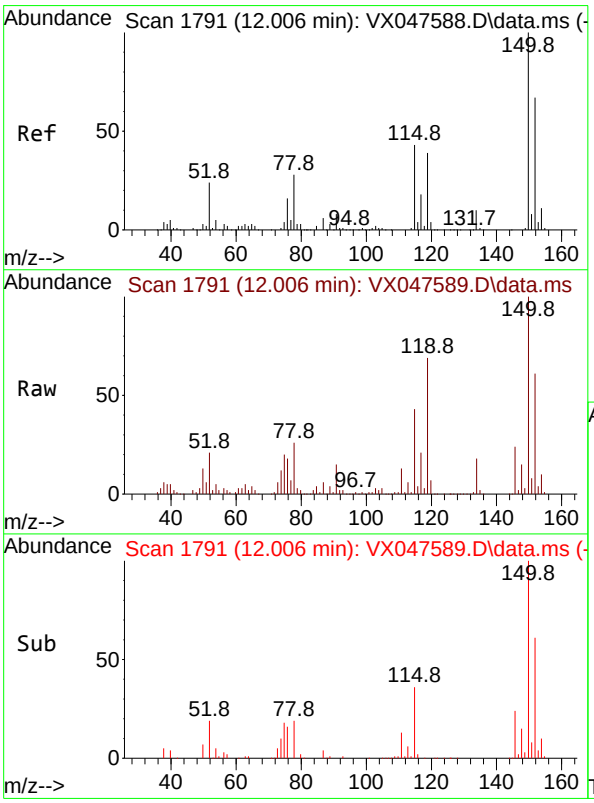
#71
Bromoform
Concen: 106.566 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 161188

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.6
254	0.1	0.1	0.1

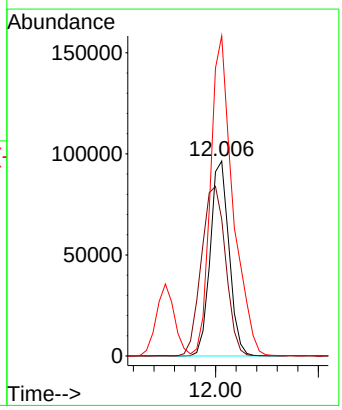


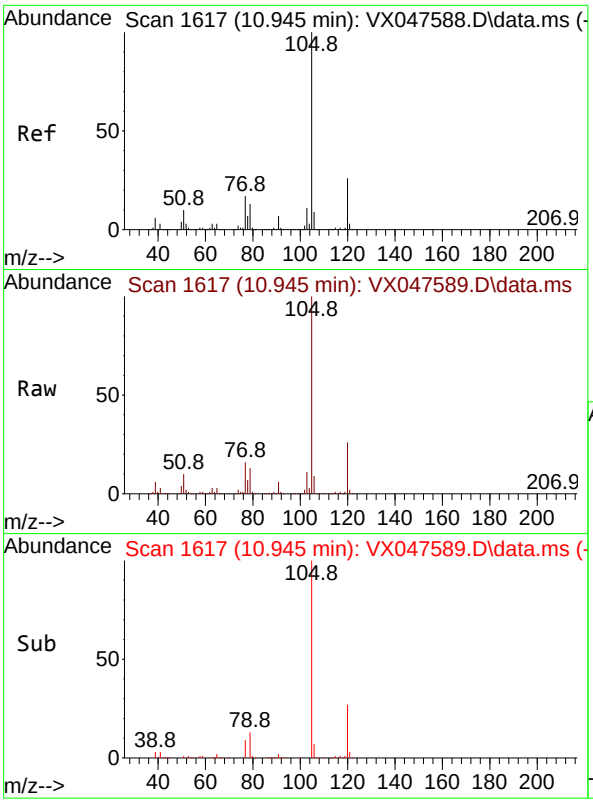


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:152 Resp: 122218

Ion	Ratio	Lower	Upper
152	100		
115	112.6	44.9	134.5
150	195.0	0.0	352.0



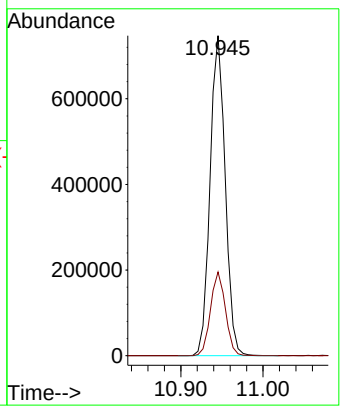


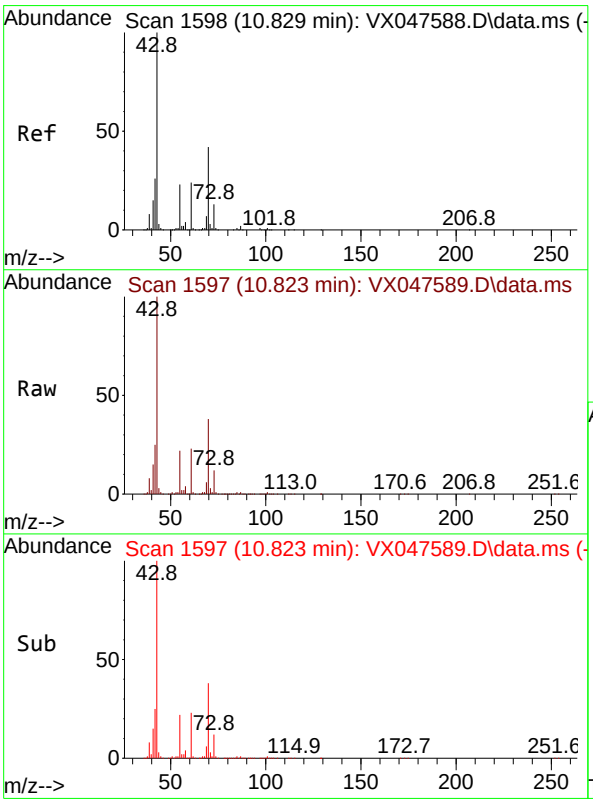
#73
Isopropylbenzene
Concen: 102.768 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 954900

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

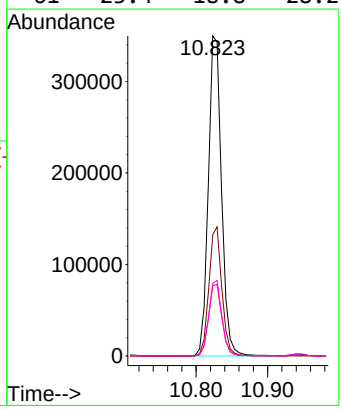


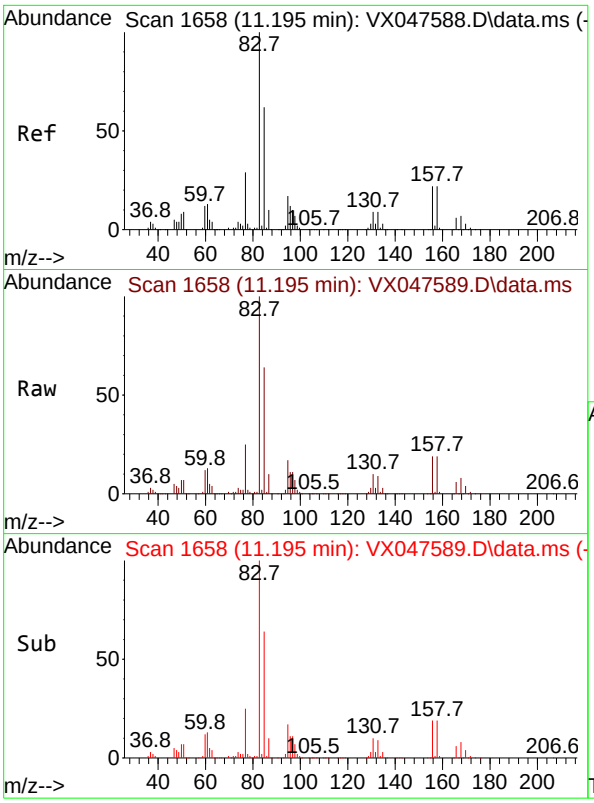


#74
N-amyl acetate
Concen: 105.812 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 448344

Ion	Ratio	Lower	Upper
43	100		
70	39.6	32.0	48.0
55	22.8	18.9	28.3
61	23.4	18.8	28.2



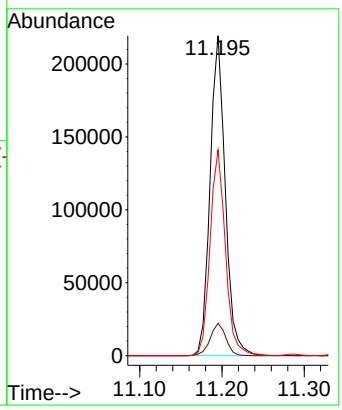


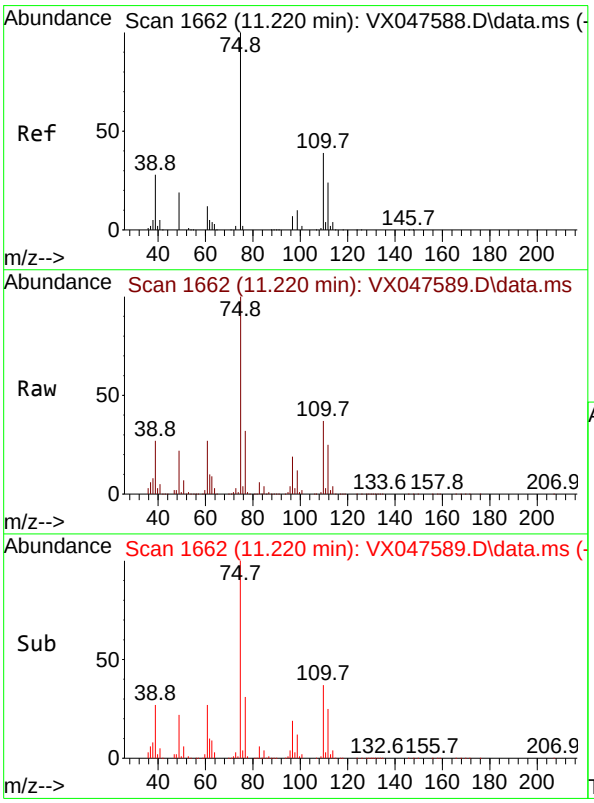
#75
1,1,2,2-Tetrachloroethane
Concen: 100.172 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 281608

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	65.1	31.6	95.0

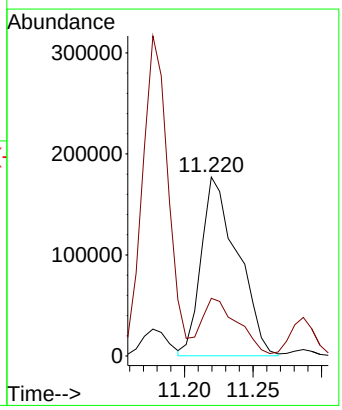


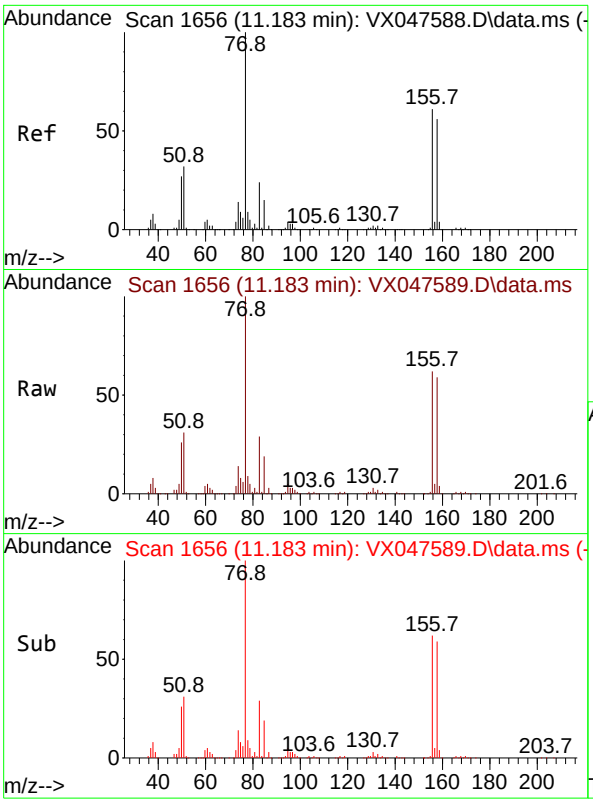


#76
1,2,3-Trichloropropane
Concen: 132.545 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 327988

Ion	Ratio	Lower	Upper
75	100		
77	30.7	18.8	56.4



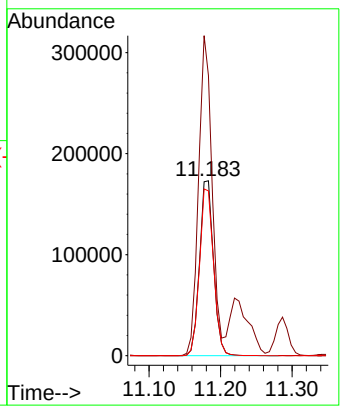


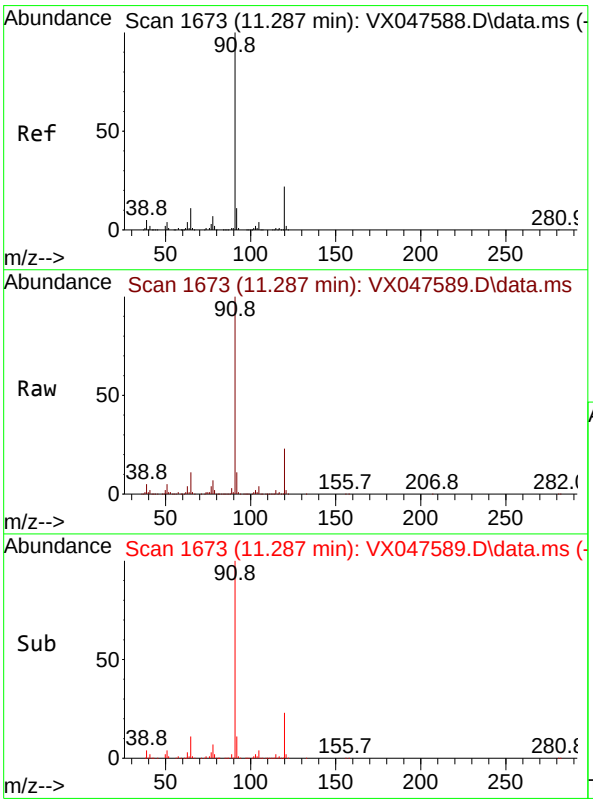
#77
Bromobenzene
Concen: 102.541 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 234666

Ion	Ratio	Lower	Upper
156	100		
77	176.0	89.7	269.1
158	96.5	47.9	143.6

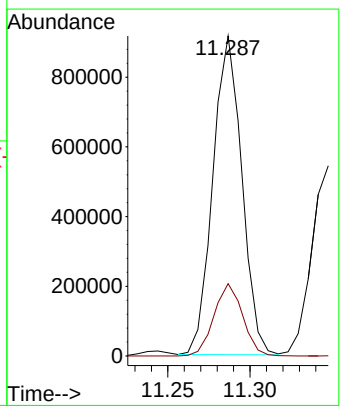


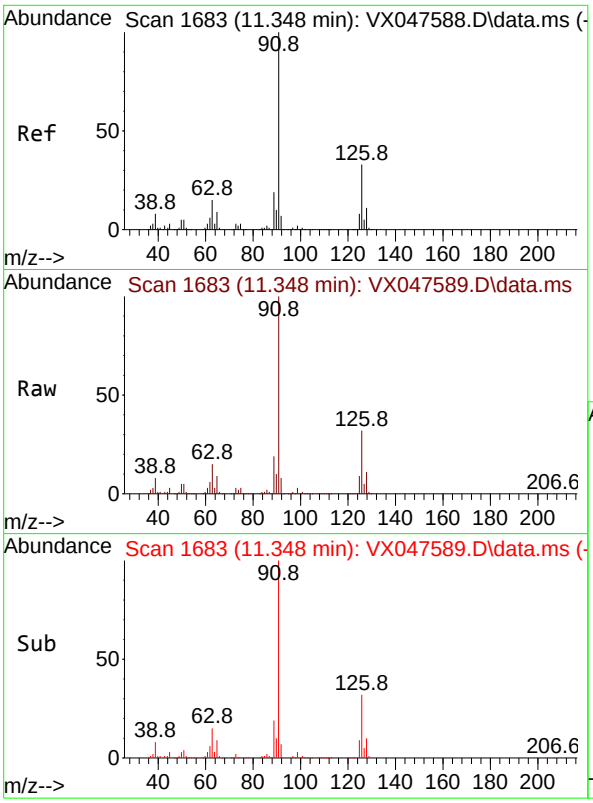


#78
n-propylbenzene
Concen: 101.941 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 1119728

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



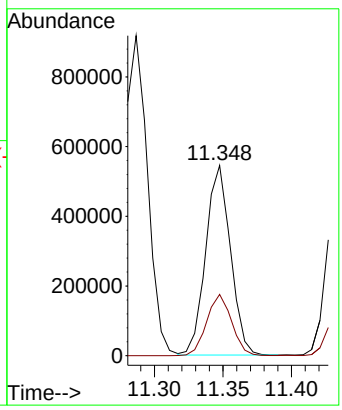


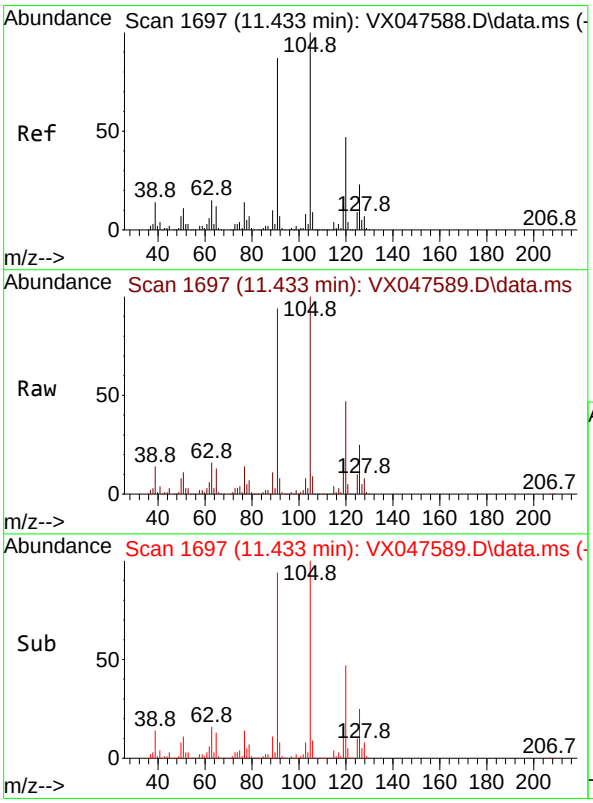
#79
2-Chlorotoluene
Concen: 101.652 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 683867

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

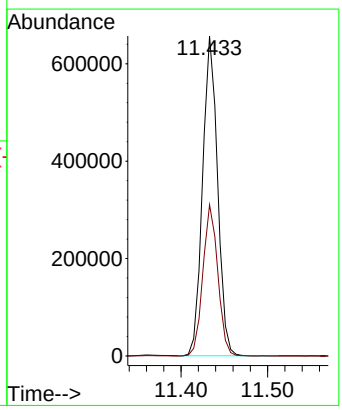


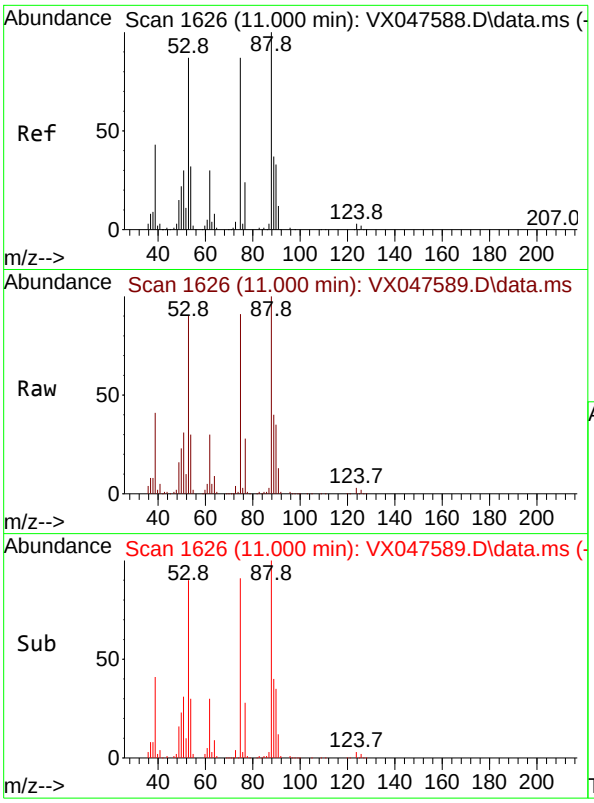


#80
1,3,5-Trimethylbenzene
Concen: 103.134 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 787327

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8



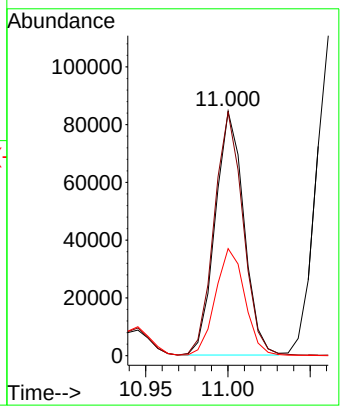


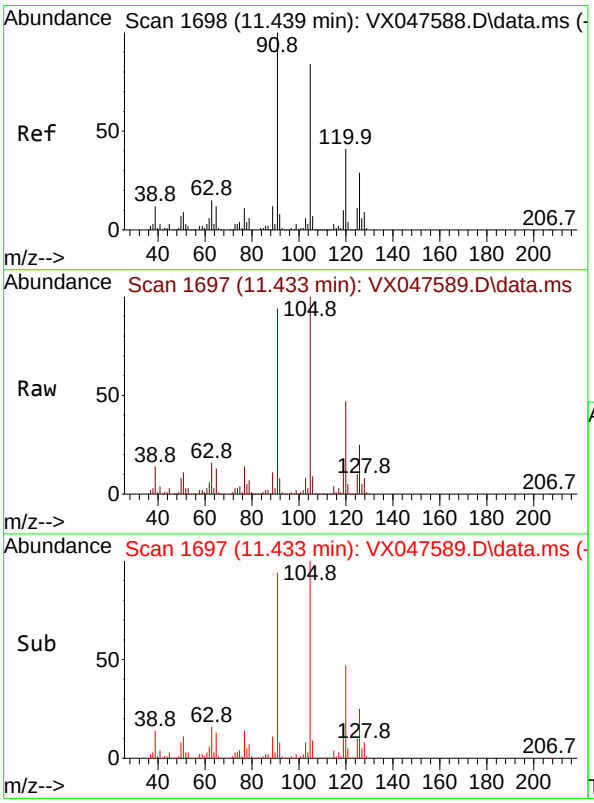
#81
trans-1,4-Dichloro-2-butene
Concen: 105.689 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 102555

Ion	Ratio	Lower	Upper
75	100		
53	101.1	83.4	125.2
89	45.3	36.3	54.5

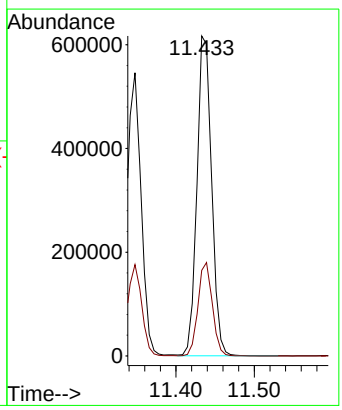


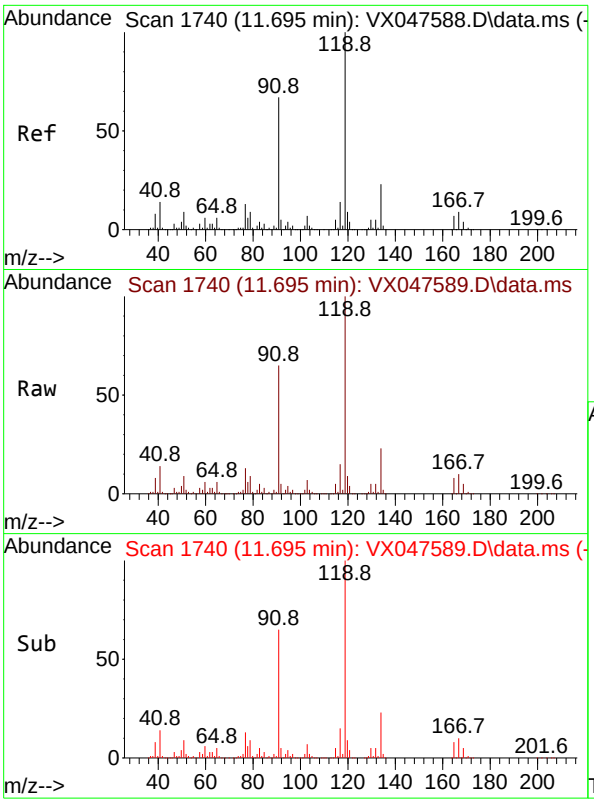


#82
4-Chlorotoluene
Concen: 101.054 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 802929

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6



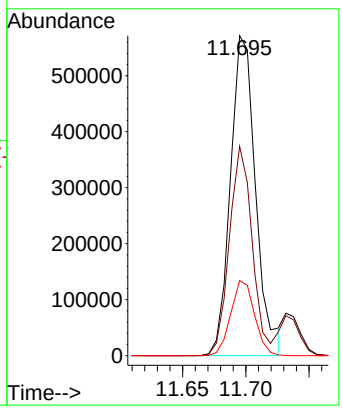


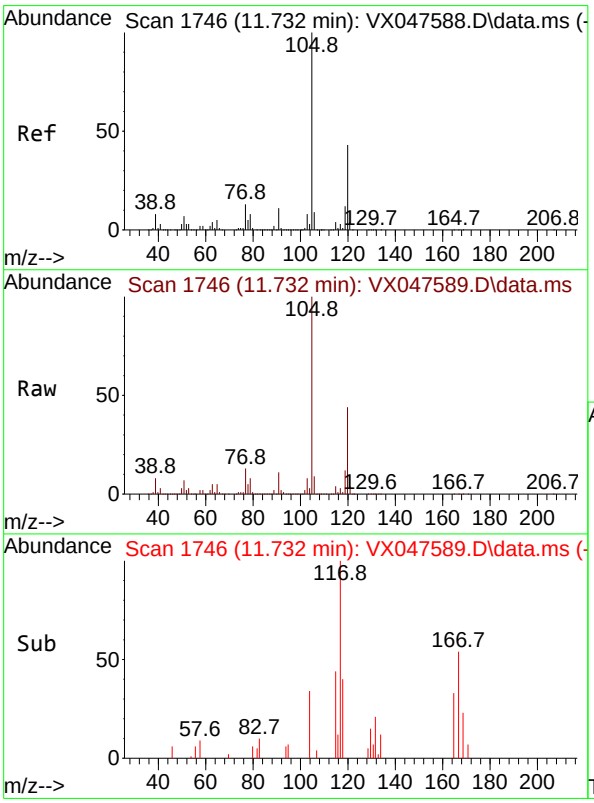
#83
tert-Butylbenzene
Concen: 101.333 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 791896

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	22.3	11.0	33.0

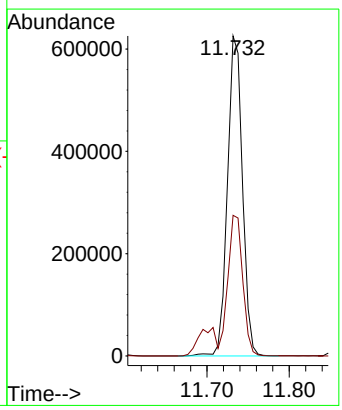


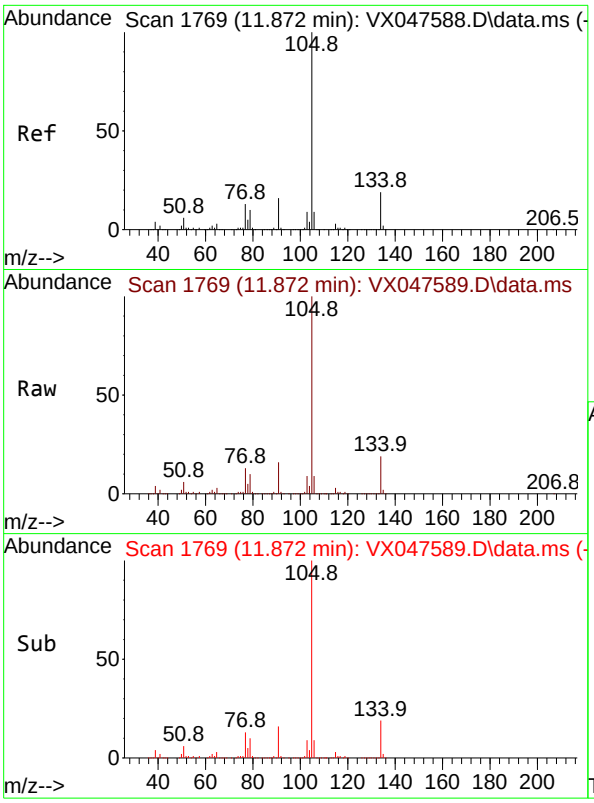


#84
1,2,4-Trimethylbenzene
Concen: 102.144 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 790557

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	66.1



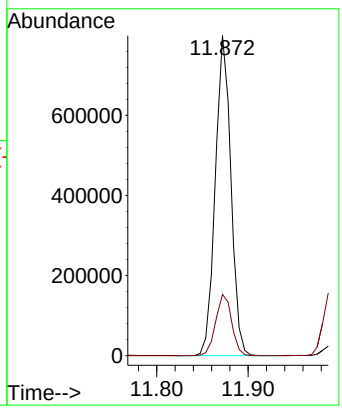


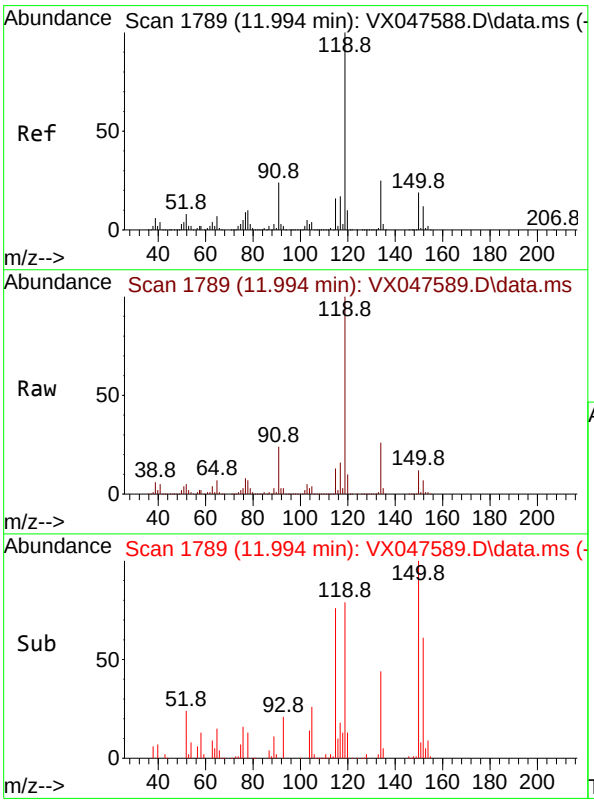
#85
sec-Butylbenzene
Concen: 101.840 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 945321

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

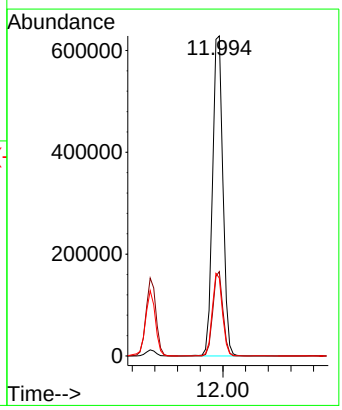


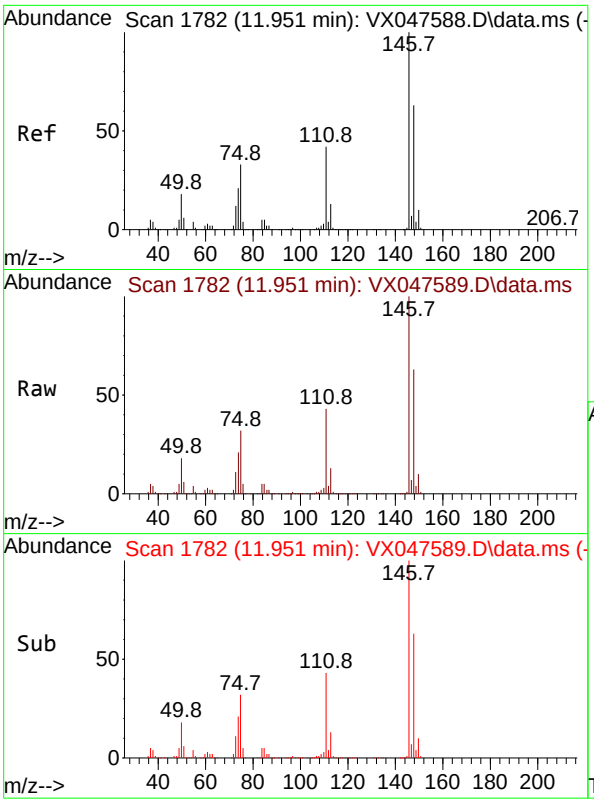


#86
p-Isopropyltoluene
Concen: 101.501 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 797643

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.6	37.8
91	25.2	12.6	37.6



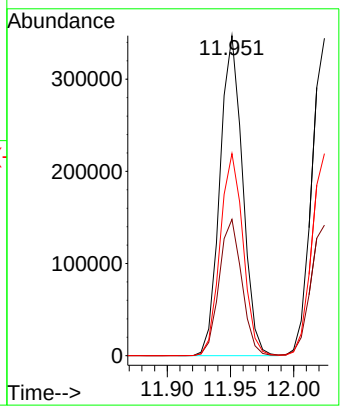


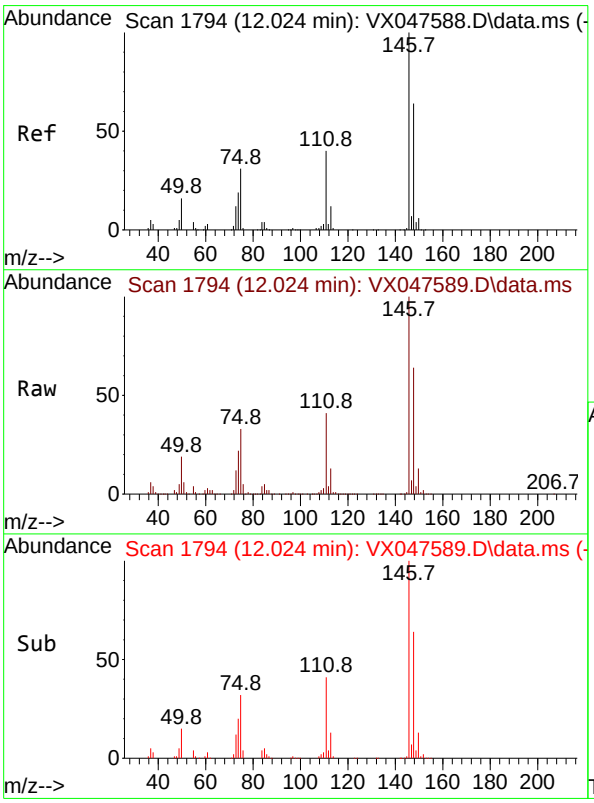
#87
1,3-Dichlorobenzene
Concen: 101.689 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 432248

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.9	32.0	96.0

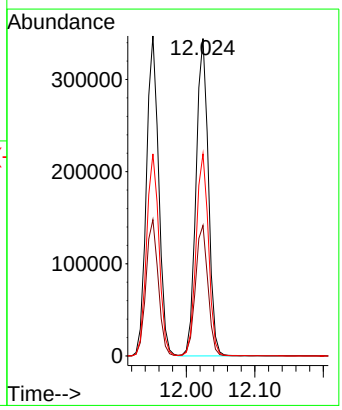


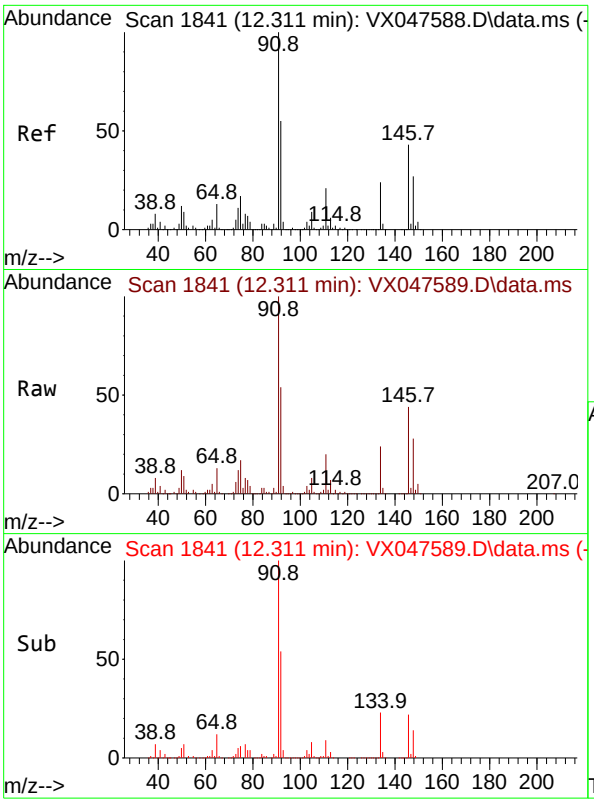


#88
1,4-Dichlorobenzene
Concen: 98.985 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 431839

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.8	31.7	95.1



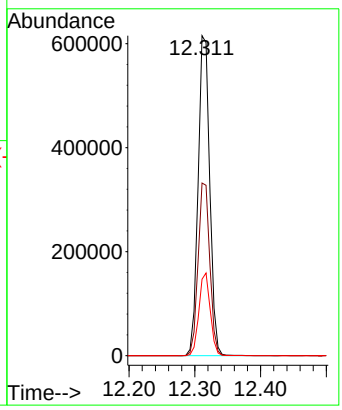


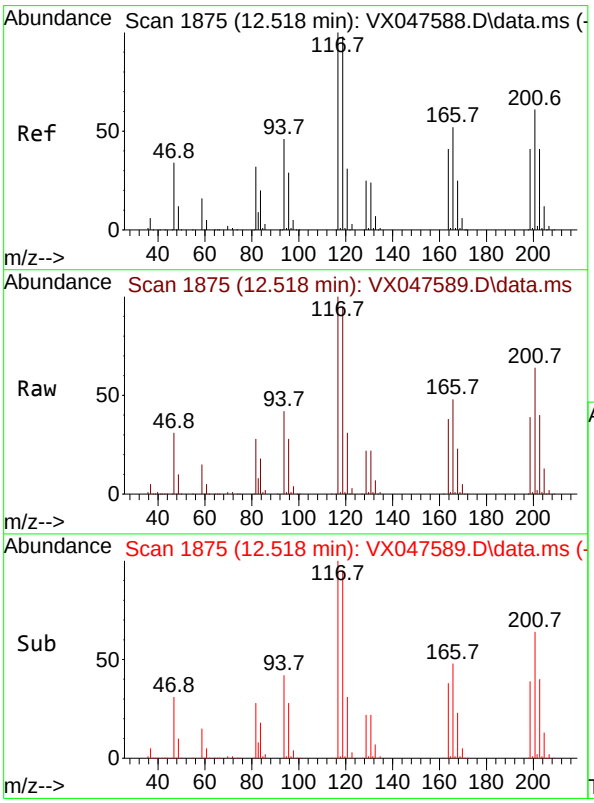
#89
n-Butylbenzene
Concen: 104.138 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 757239

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8

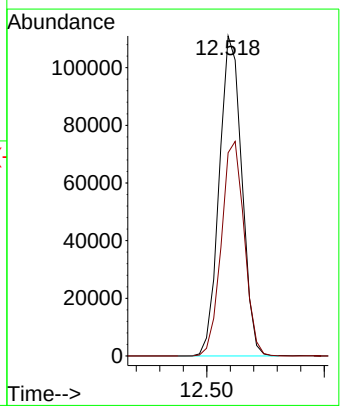


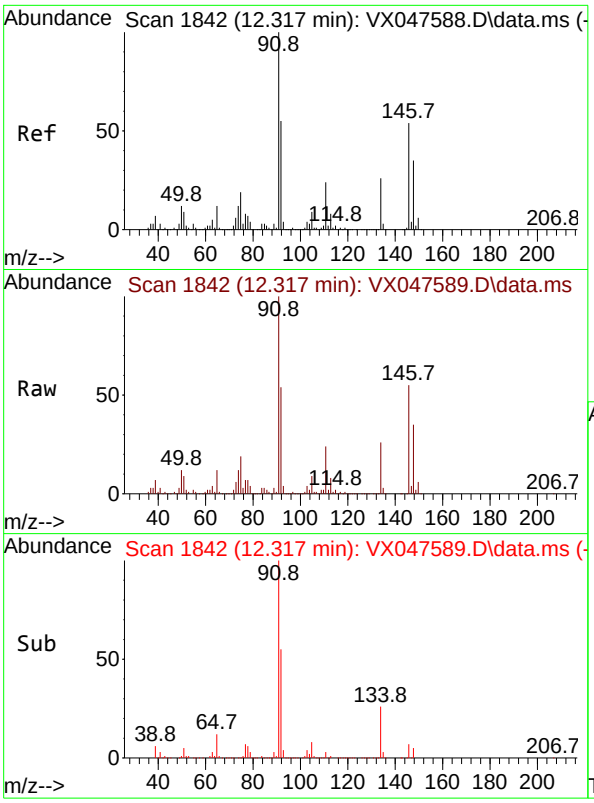


#90
Hexachloroethane
Concen: 107.304 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 148048

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.2	102.5



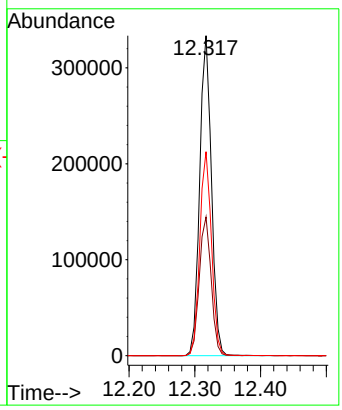


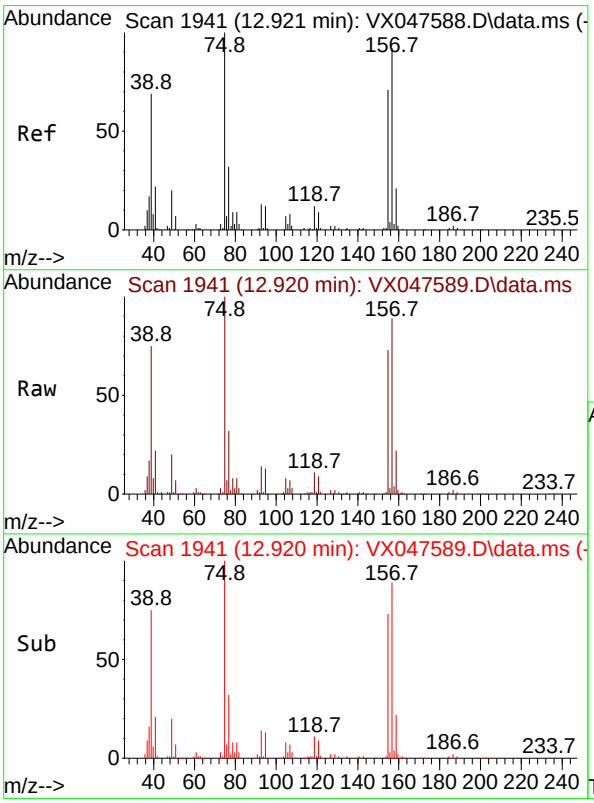
#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 414491

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.4	31.8	95.4

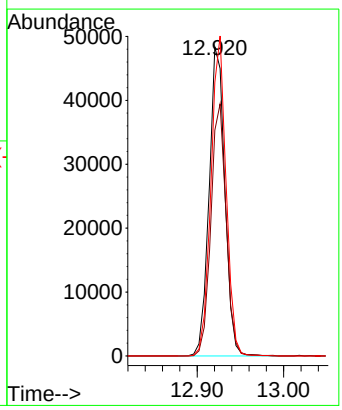


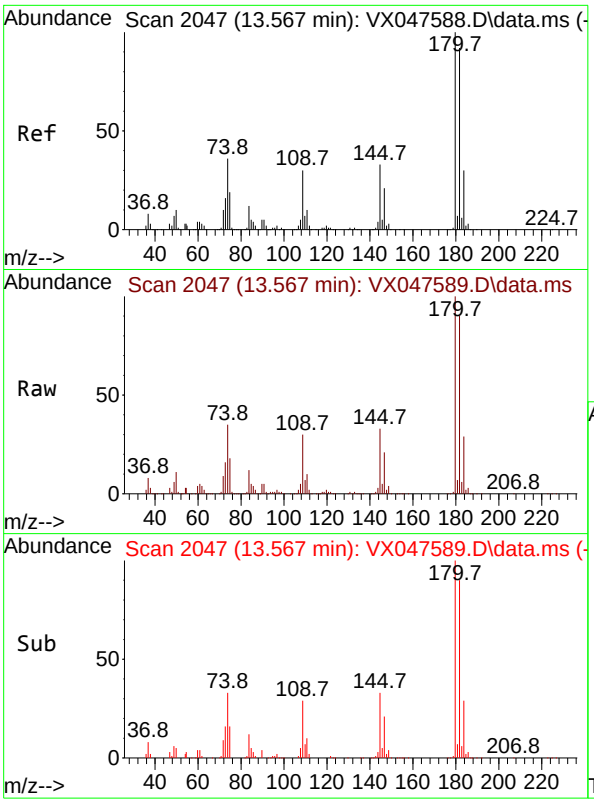


#92
1,2-Dibromo-3-Chloropropane
Concen: 107.225 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 61029

Ion	Ratio	Lower	Upper
75	100		
155	79.0	37.7	113.1
157	99.2	49.8	149.4



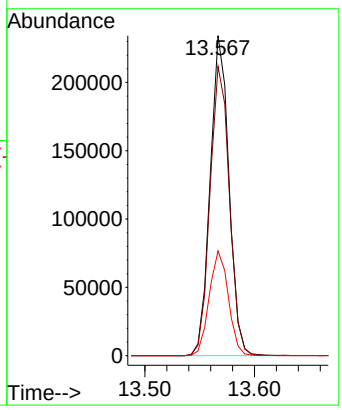


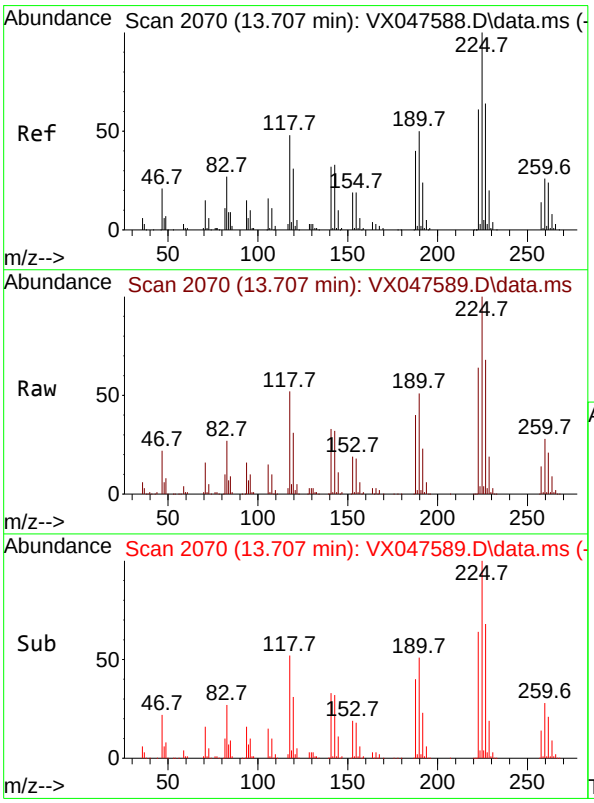
#93
1,2,4-Trichlorobenzene
Concen: 105.922 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 278777

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	33.3	16.4	49.1

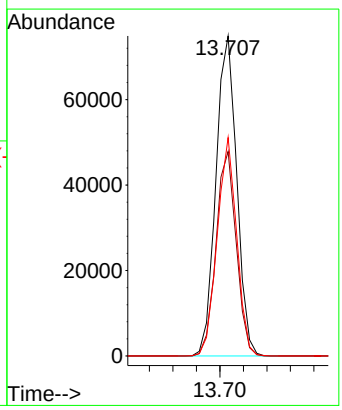


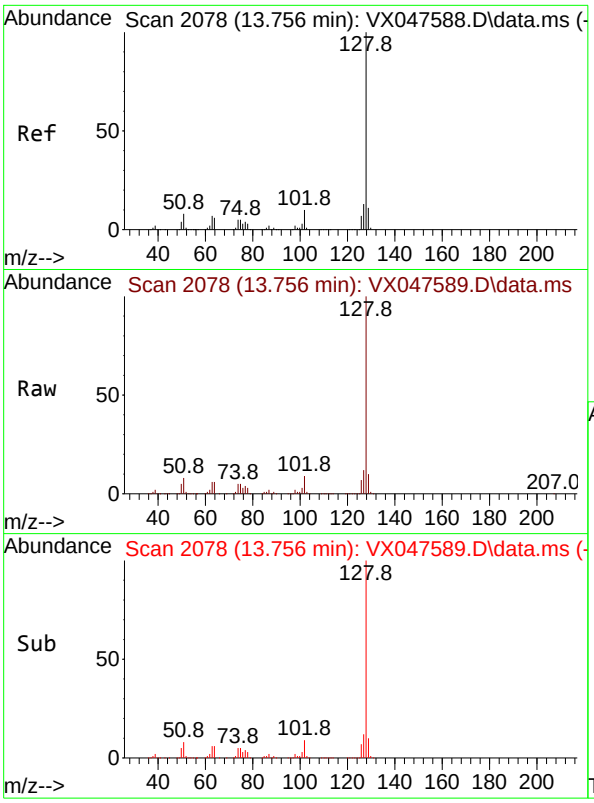


#94
Hexachlorobutadiene
Concen: 103.049 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:225 Resp: 92124

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.7	95.1
227	63.8	32.0	96.0



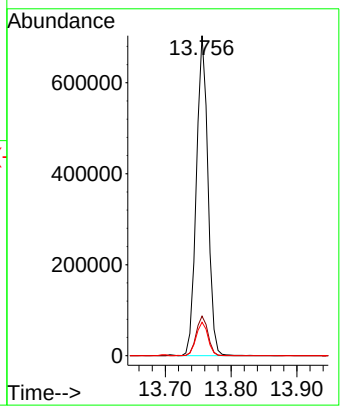


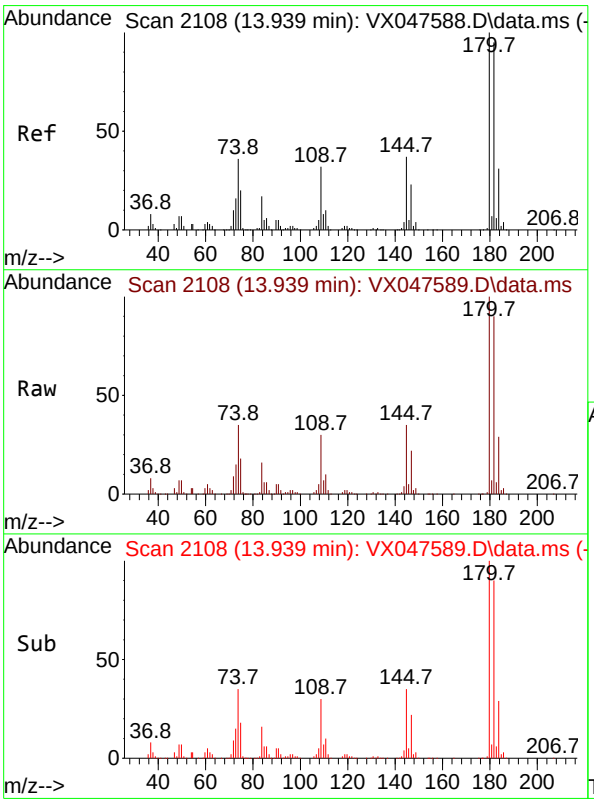
#95
Naphthalene
Concen: 106.620 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 854492

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

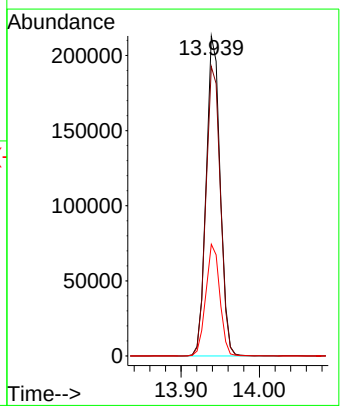




#96
1,2,3-Trichlorobenzene
Concen: 107.633 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 263512

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	35.0	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 325.340%#			
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 329.600%#			
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 326.500%#			
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 330.040%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951 ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515 ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283 ug/l	99
44) Trichloroethene	7.111	130	299673	151.542 ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219 ug/l	99
46) Dibromomethane	7.568	93	228550	149.954 ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710 ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194 ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565 ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849 ug/l	100
52) Toluene	8.702	92	739332	146.712 ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076 ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732 ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781 ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773 ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661 ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035 ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318 ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949 ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590 ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733 ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026 ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381 ug/l	99
69) o-Xylene	10.628	106	521840	152.920 ug/l	99
70) Styrene	10.640	104	917532	153.449 ug/l	99
71) Bromoform	10.781	173	229683	162.262 ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477 ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035 ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	470623	202.576 ug/l	89
77) Bromobenzene	11.183	156	328336	152.818 ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337 ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781 ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176 ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112 ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819 ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336 ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448 ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633 ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814 ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222 ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258 ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332 ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884 ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110 ug/l	99
95) Naphthalene	13.756	128	1229363	163.388 ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

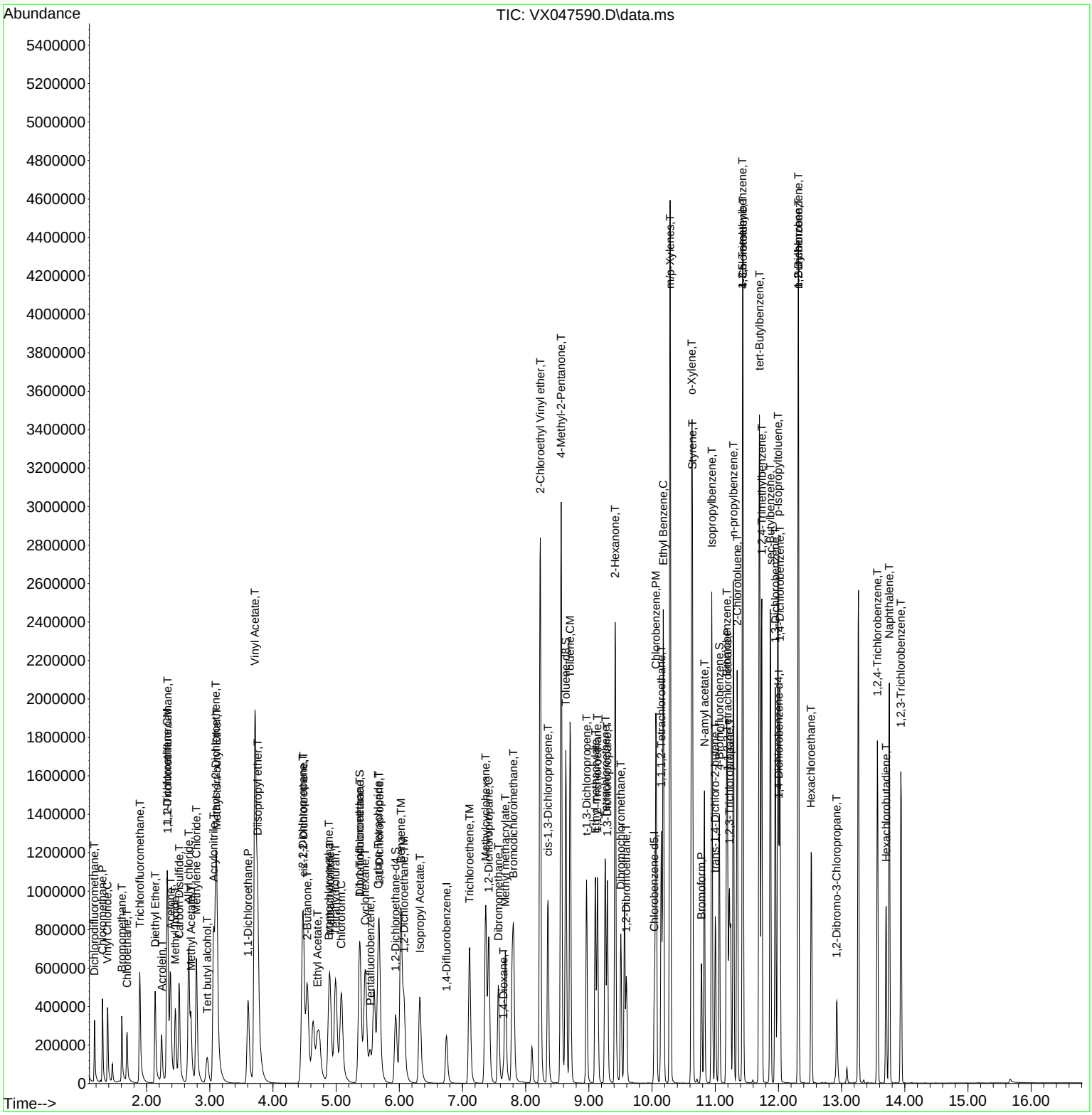
(#) = qualifier out of range (m) = manual integration (+) = signals summed

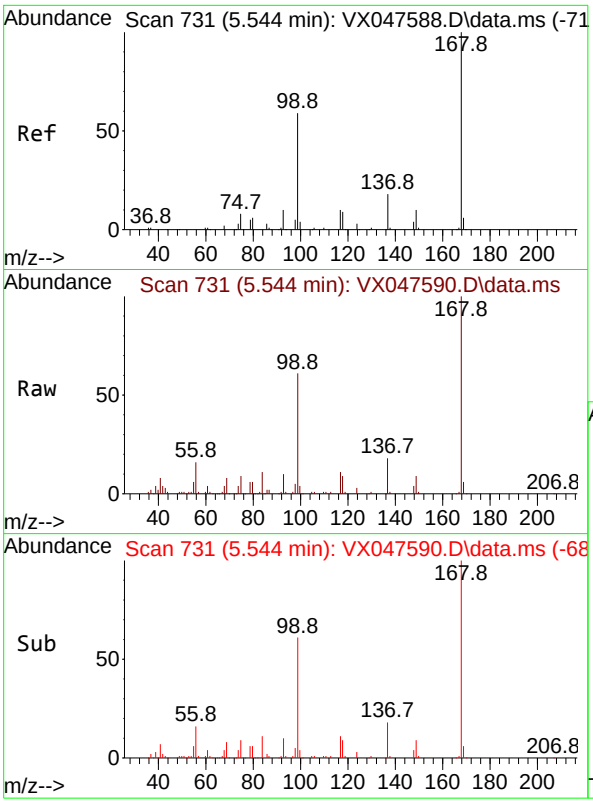
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



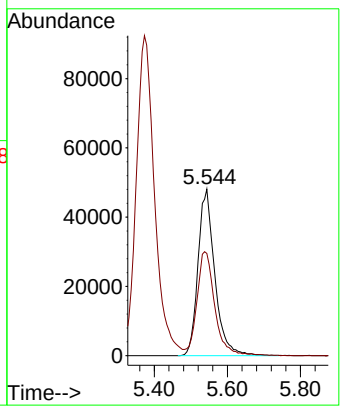


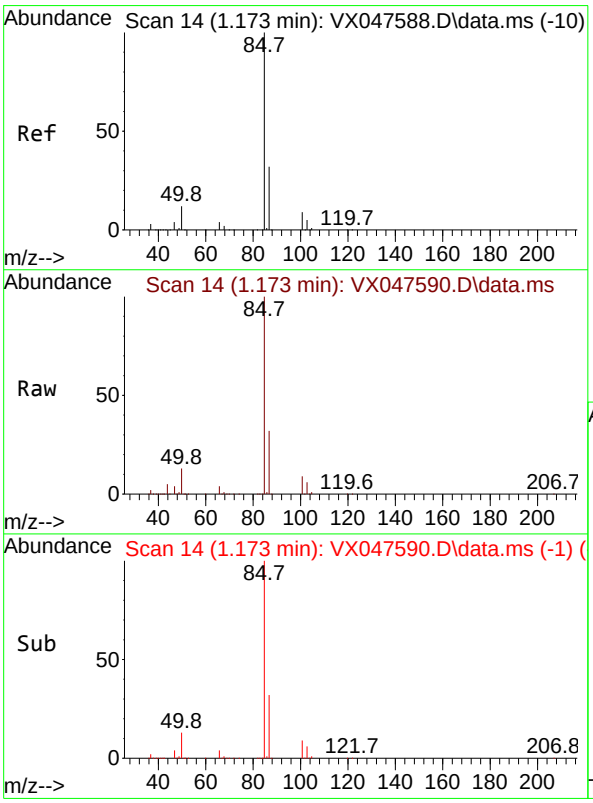
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 153177

Ion	Ratio	Lower	Upper
168	100		
99	61.1	48.8	73.2

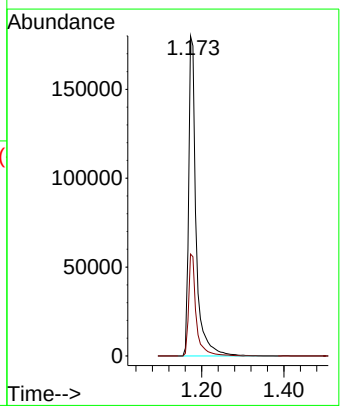


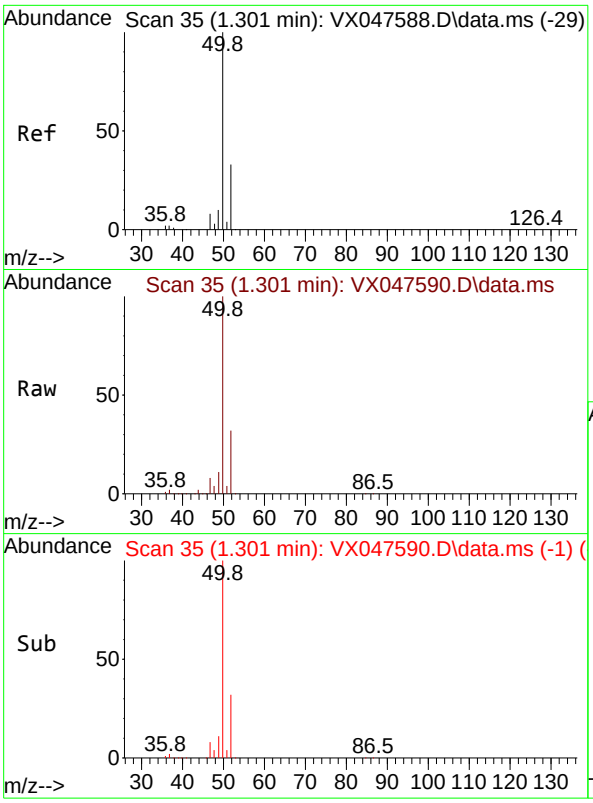


#2
Dichlorodifluoromethane
Concen: 142.586 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 85 Resp: 226166

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3



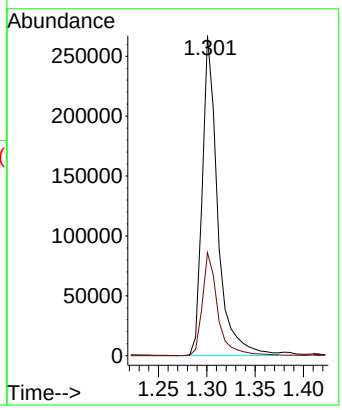


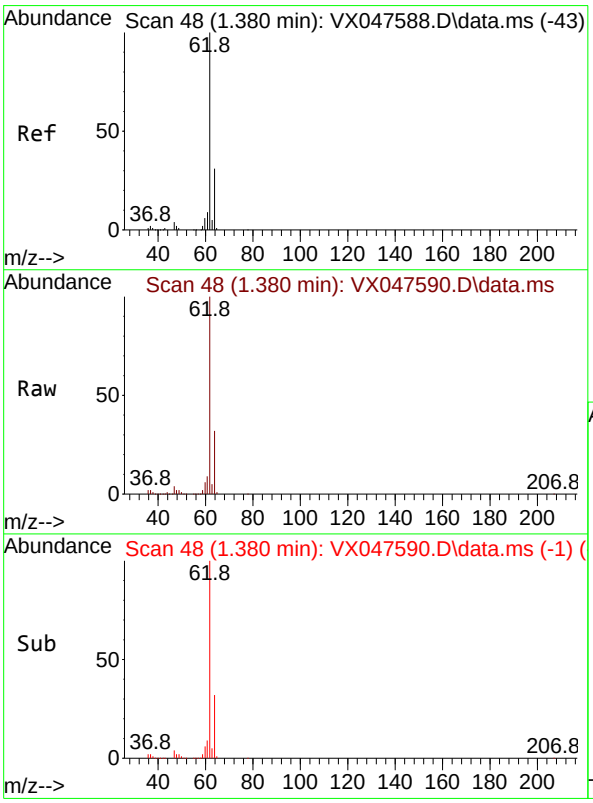
#3
Chloromethane
Concen: 142.593 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 297259

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1

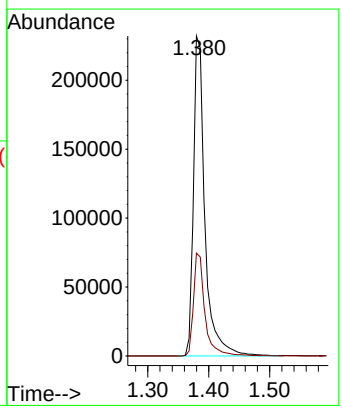


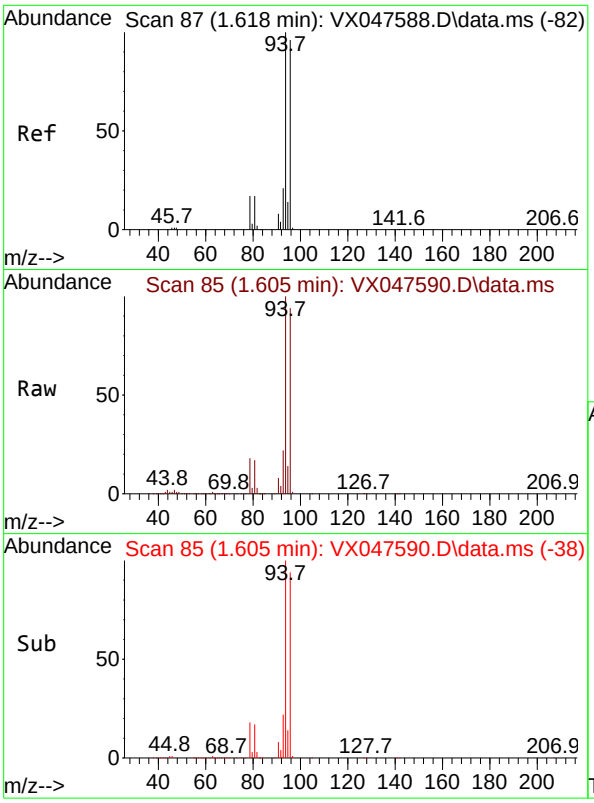


#4
Vinyl Chloride
Concen: 148.140 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 302303

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.9	37.3



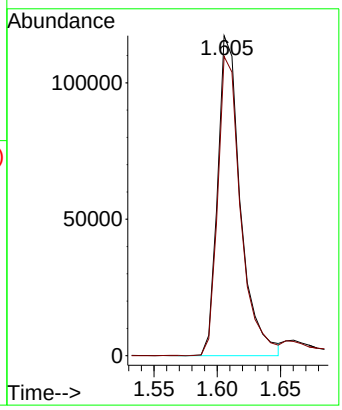


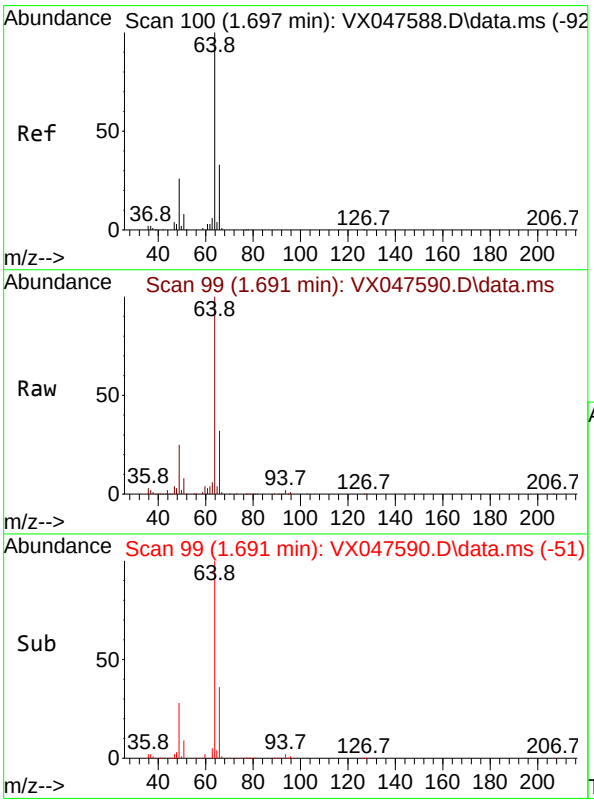
#5
Bromomethane
Concen: 114.019 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 147541

Ion	Ratio	Lower	Upper
94	100		
96	93.4	76.6	115.0

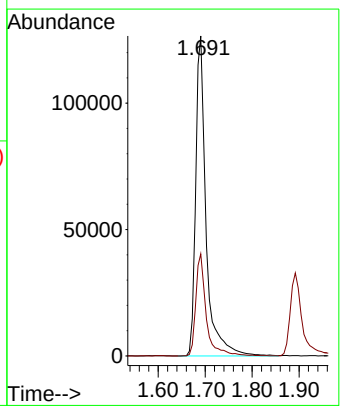


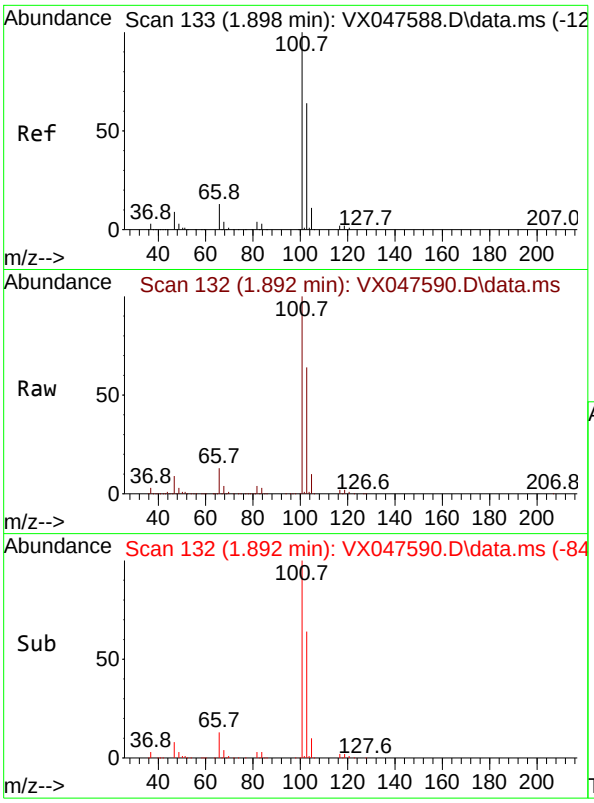


#6
Chloroethane
Concen: 143.652 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 64 Resp: 195927

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1



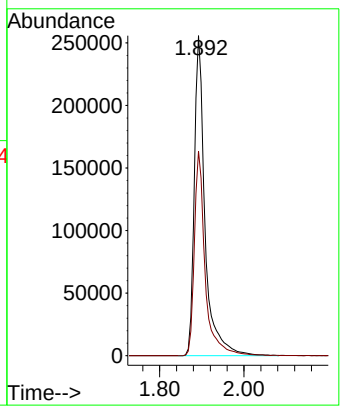


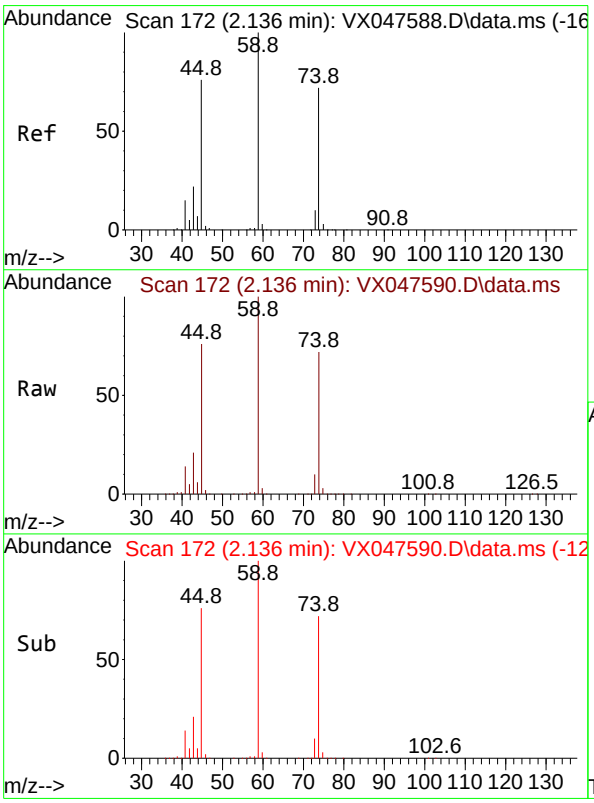
#7
Trichlorofluoromethane
Concen: 149.545 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 453116

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2

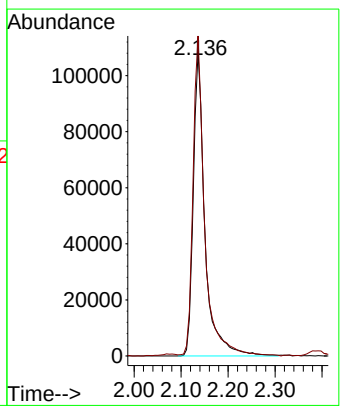


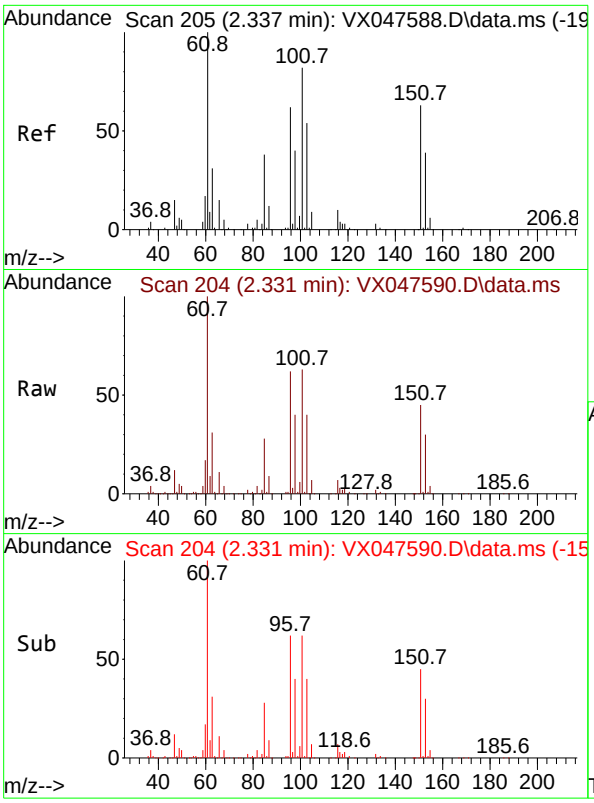


#8
Diethyl Ether
Concen: 151.684 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 74 Resp: 188006

Ion	Ratio	Lower	Upper
74	100		
45	105.5	52.3	156.8



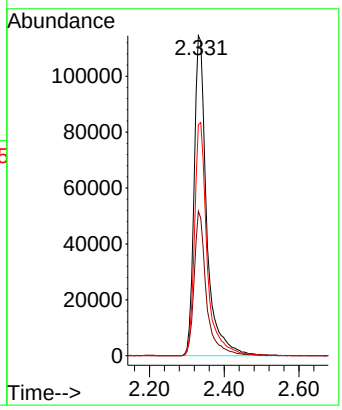


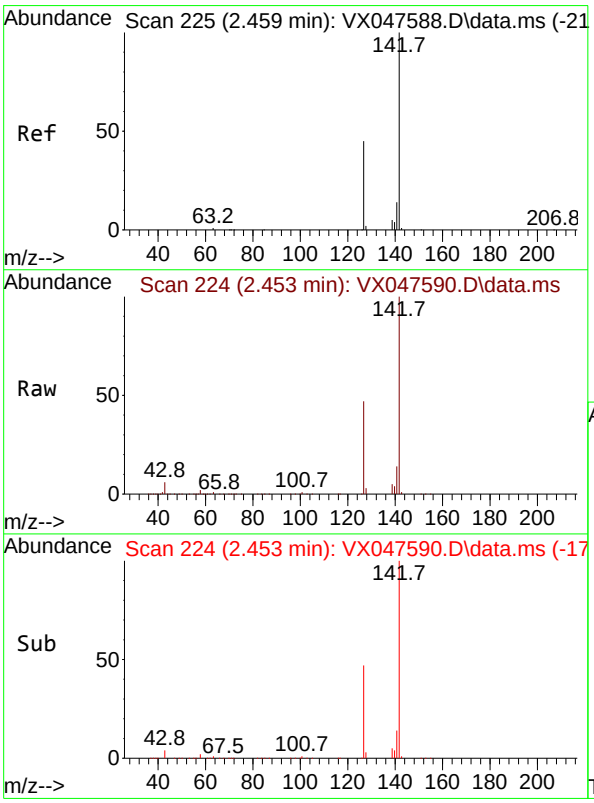
#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.264 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 267995

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0

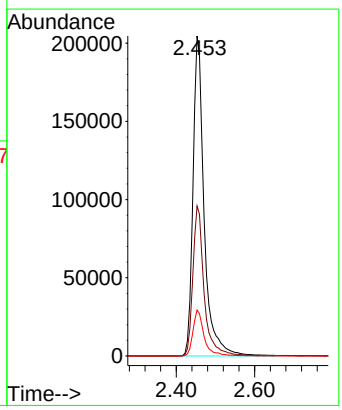


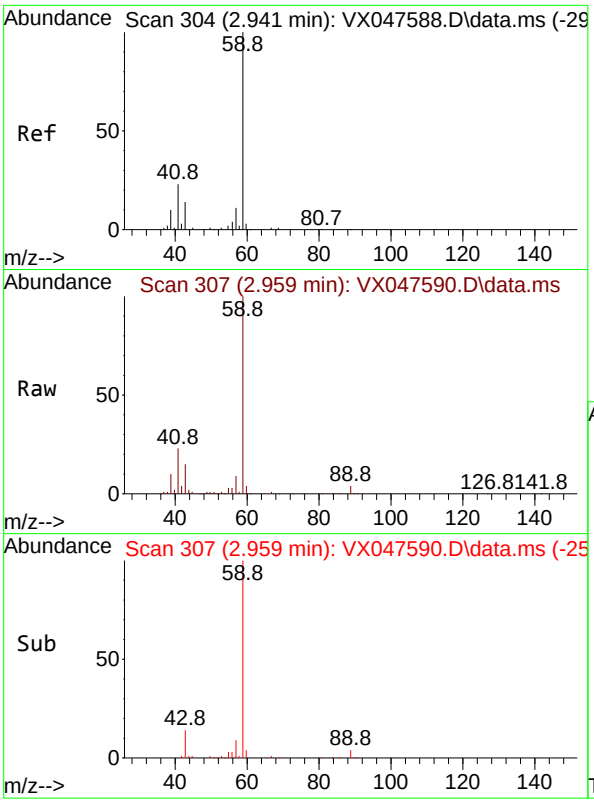


#10
Methyl Iodide
Concen: 147.384 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:142 Resp: 407242

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.3	11.4	17.0



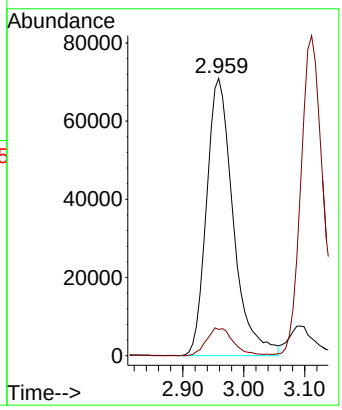


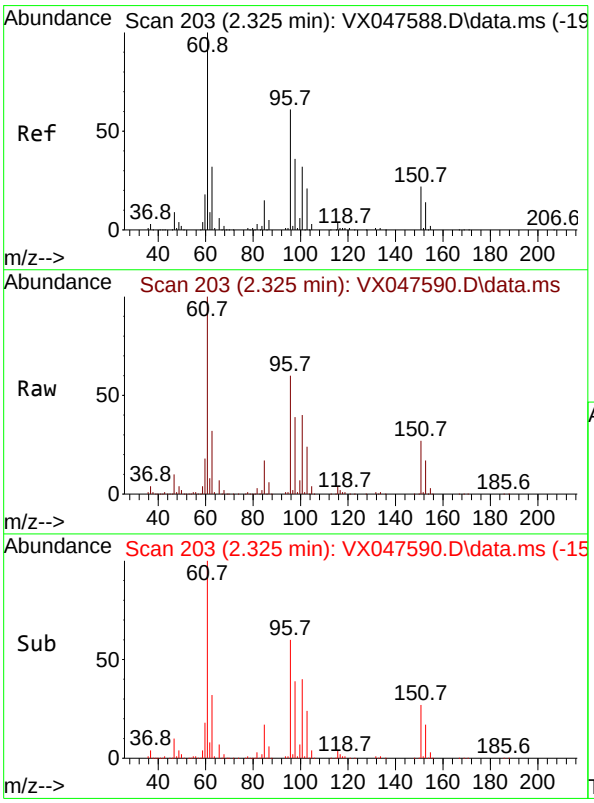
#11
Tert butyl alcohol
Concen: 795.166 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 215927

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5

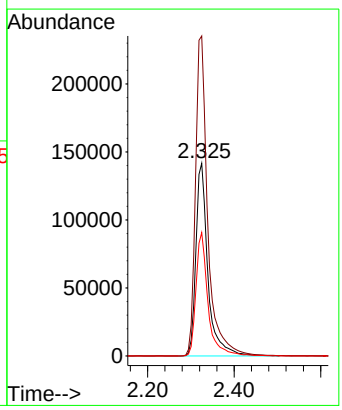


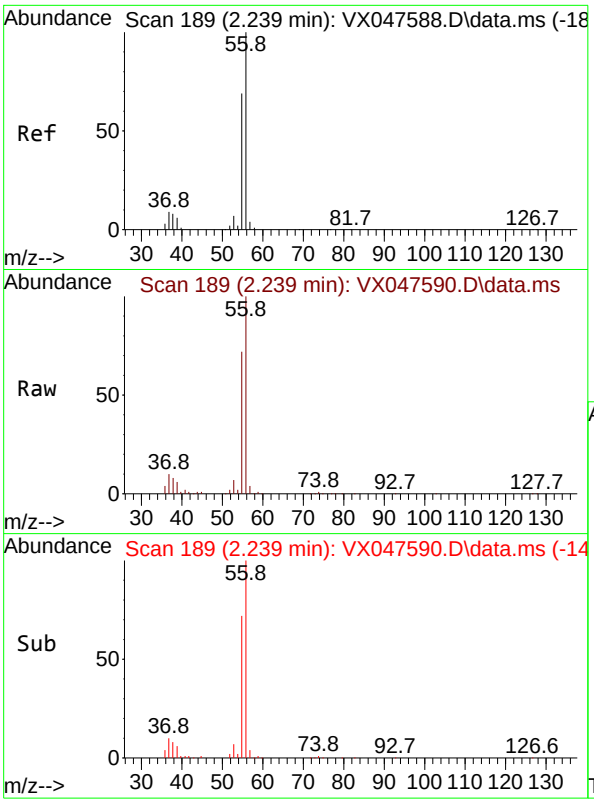


#12
1,1-Dichloroethene
Concen: 150.388 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 273692

Ion	Ratio	Lower	Upper
96	100		
61	166.1	131.0	196.6
98	64.0	47.7	71.5



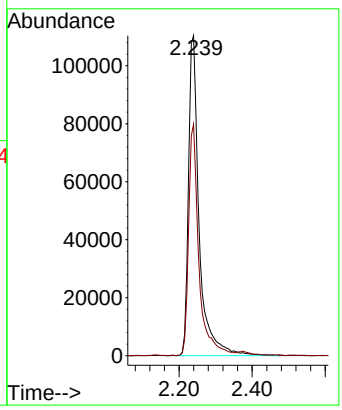


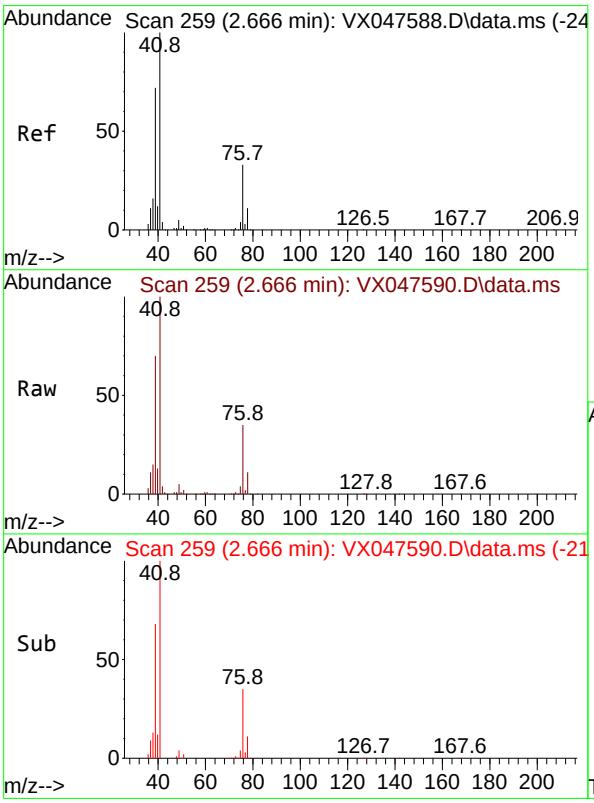
#13
Acrolein
Concen: 894.203 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 223763

Ion	Ratio	Lower	Upper
56	100		
55	69.6	57.2	85.8

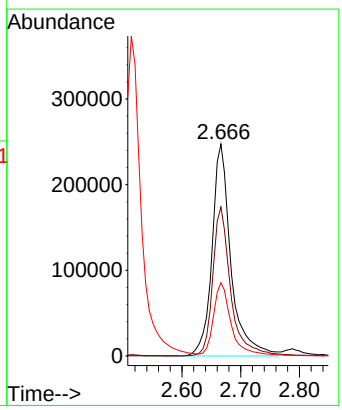


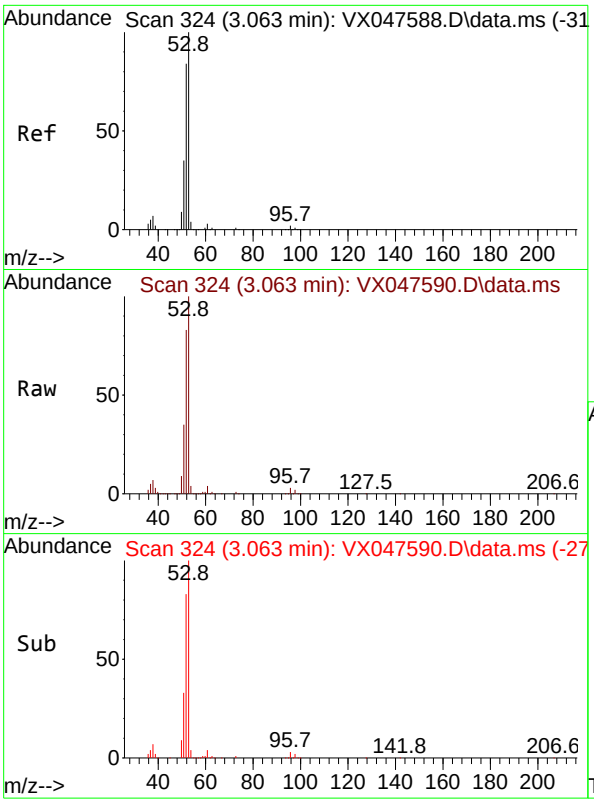


#14
Allyl chloride
Concen: 147.727 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 554779

Ion	Ratio	Lower	Upper
41	100		
39	67.3	54.7	82.1
76	32.4	25.7	38.5



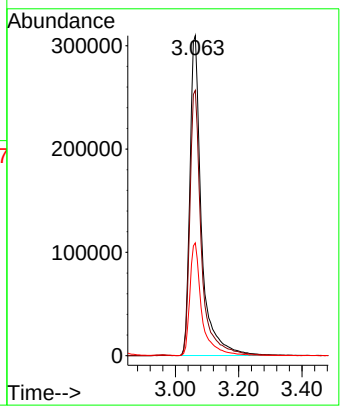


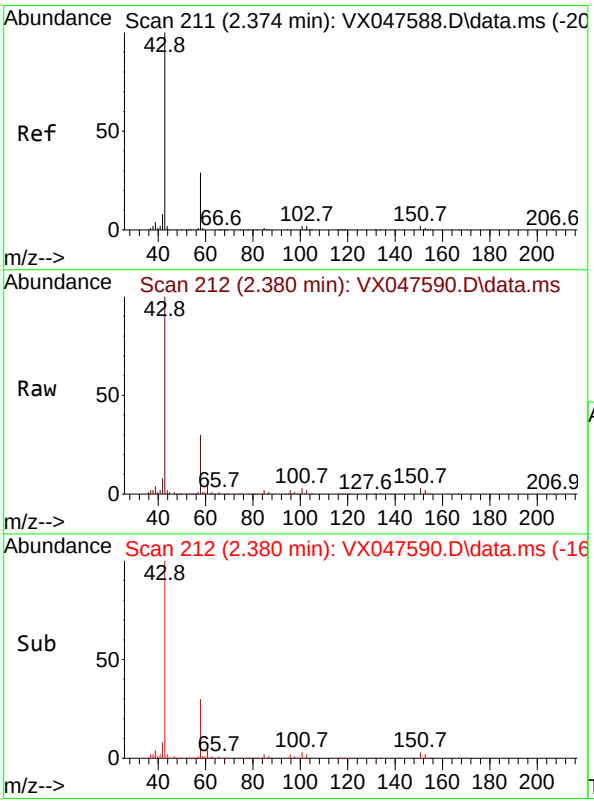
#15
Acrylonitrile
Concen: 786.201 ug/l
RT: 3.063 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 790790

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.1	29.5	44.3

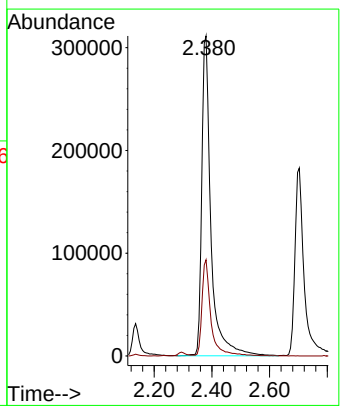


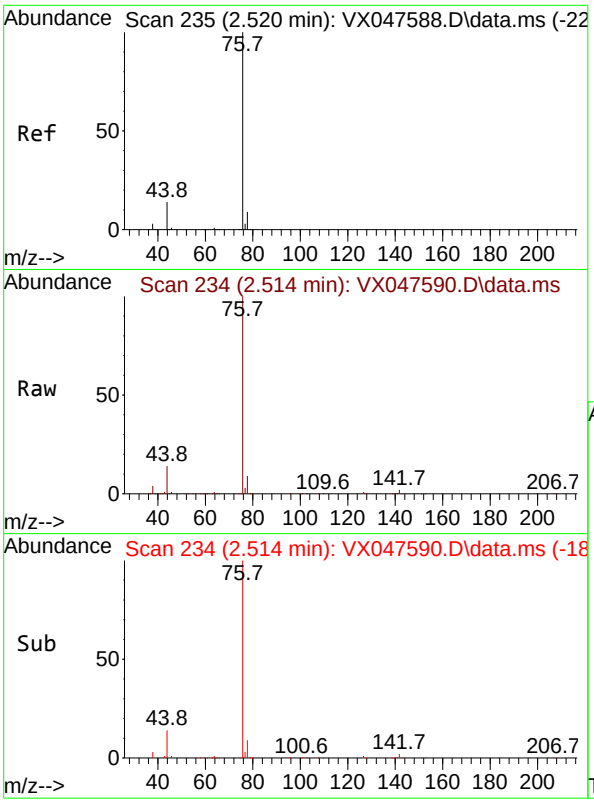


#16
Acetone
Concen: 647.201 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 686119

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0



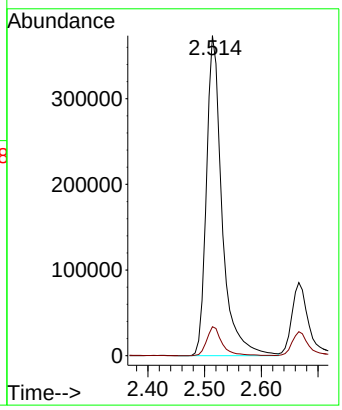


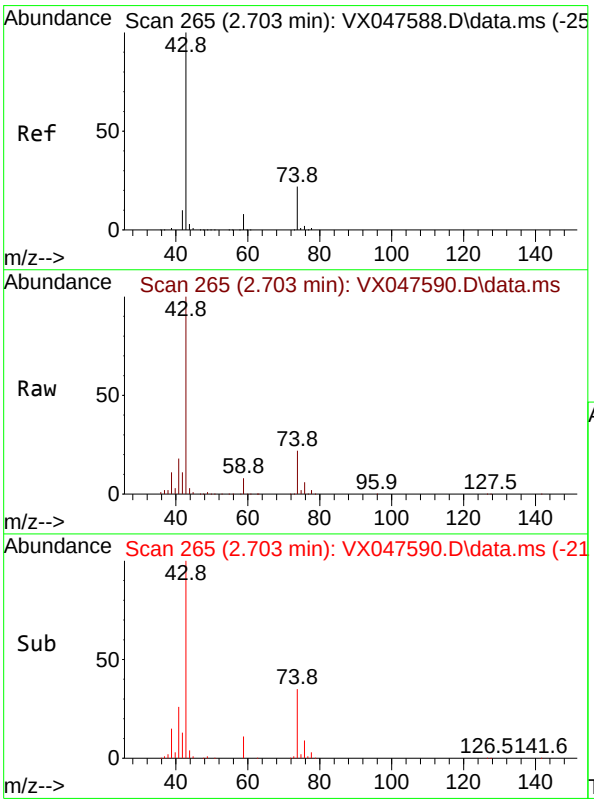
#17
Carbon Disulfide
Concen: 143.412 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 714503

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2

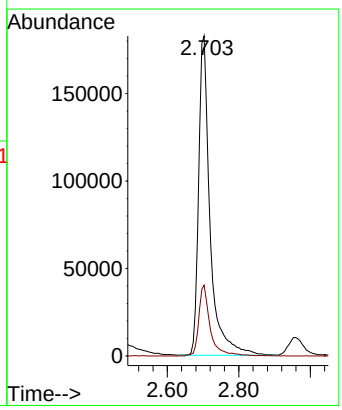


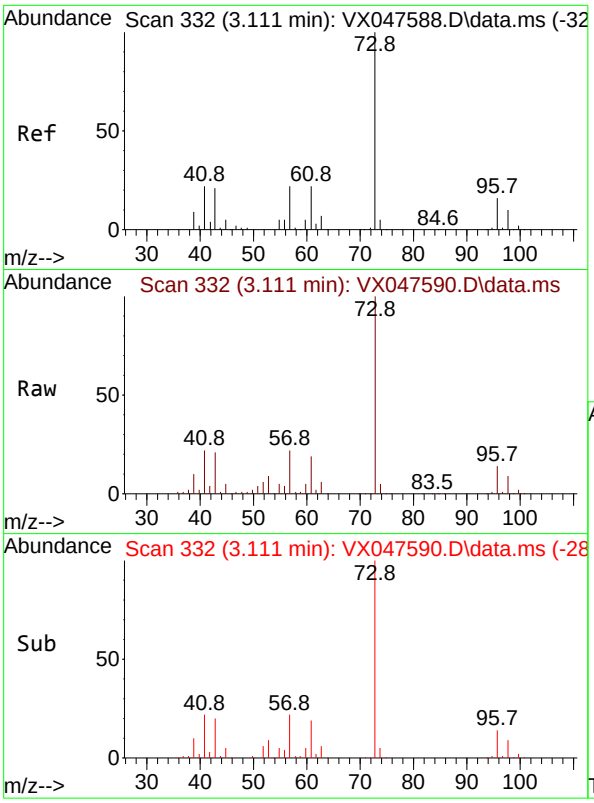


#18
Methyl Acetate
Concen: 171.548 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 404736

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2



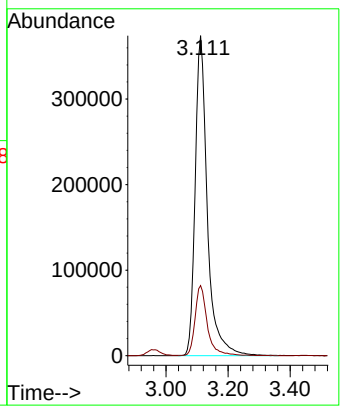


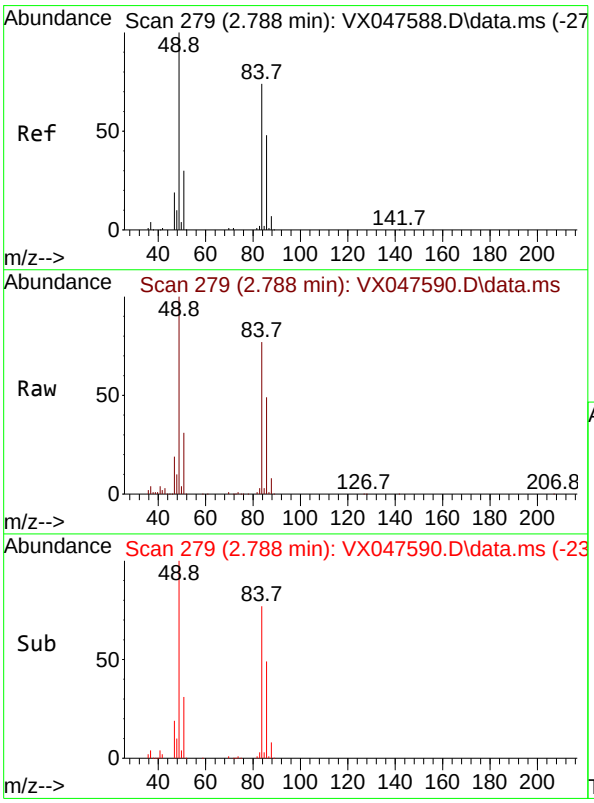
#19
Methyl tert-butyl Ether
Concen: 152.826 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 1015295

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2

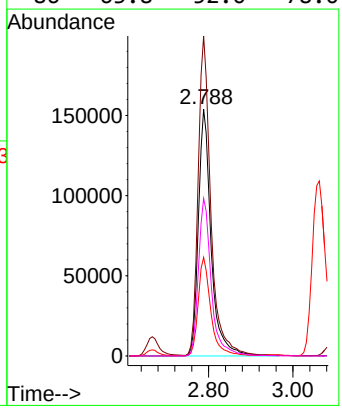


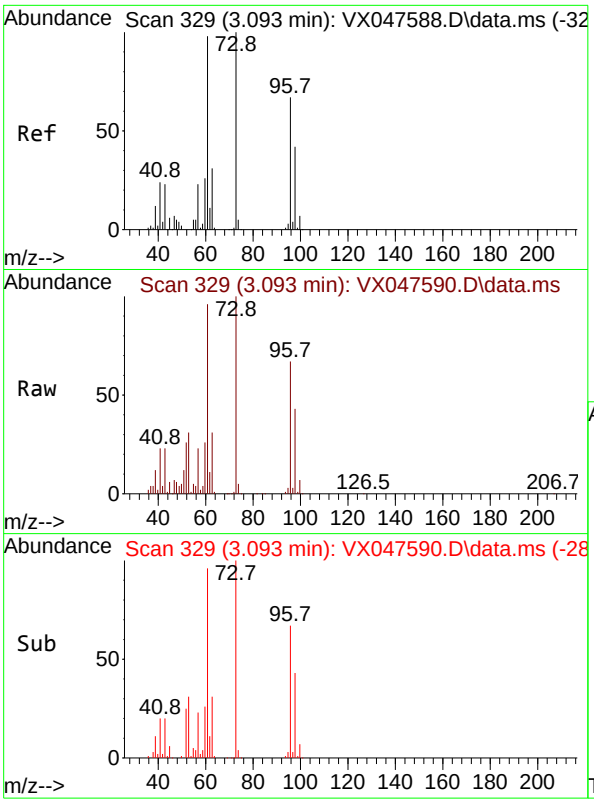


#20
Methylene Chloride
Concen: 144.398 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 84 Resp: 324032

Ion	Ratio	Lower	Upper
84	100		
49	129.4	108.6	162.8
51	39.9	32.6	48.8
86	63.8	52.0	78.0



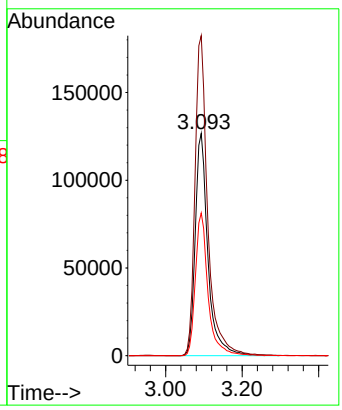


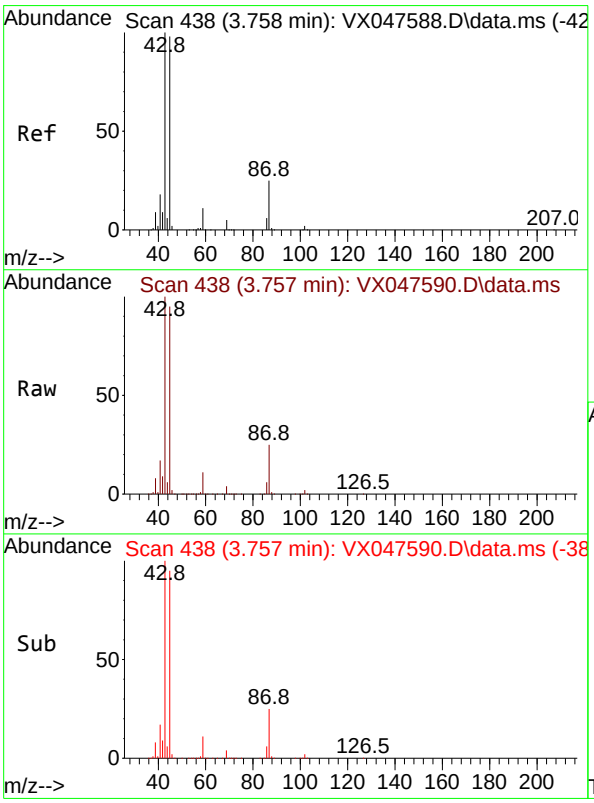
#21
trans-1,2-Dichloroethene
Concen: 148.833 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 291616

Ion	Ratio	Lower	Upper
96	100		
61	144.0	116.2	174.2
98	64.3	49.3	73.9

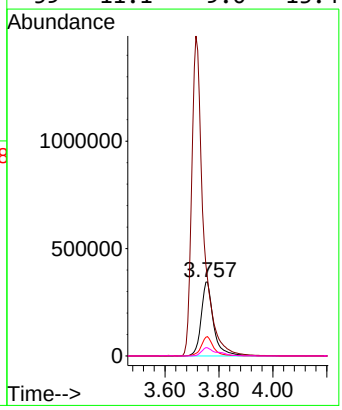


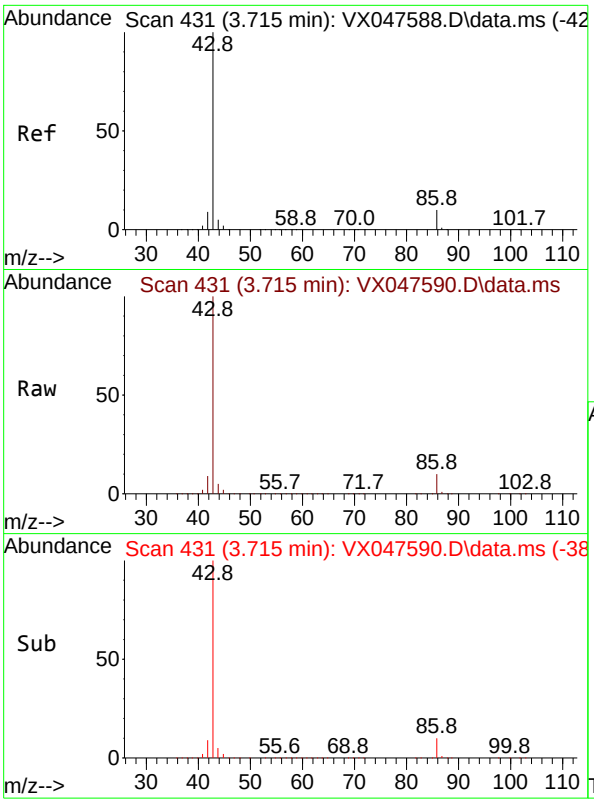


#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 45 Resp: 1095726

Ion	Ratio	Lower	Upper
45	100		
43	104.7	81.0	121.4
87	26.2	20.3	30.5
59	11.1	9.0	13.4



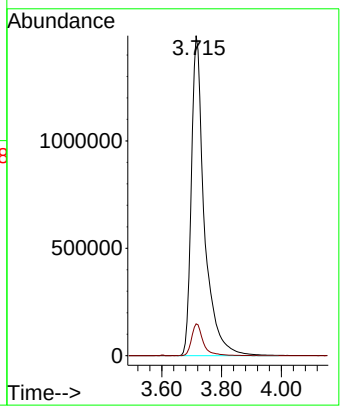


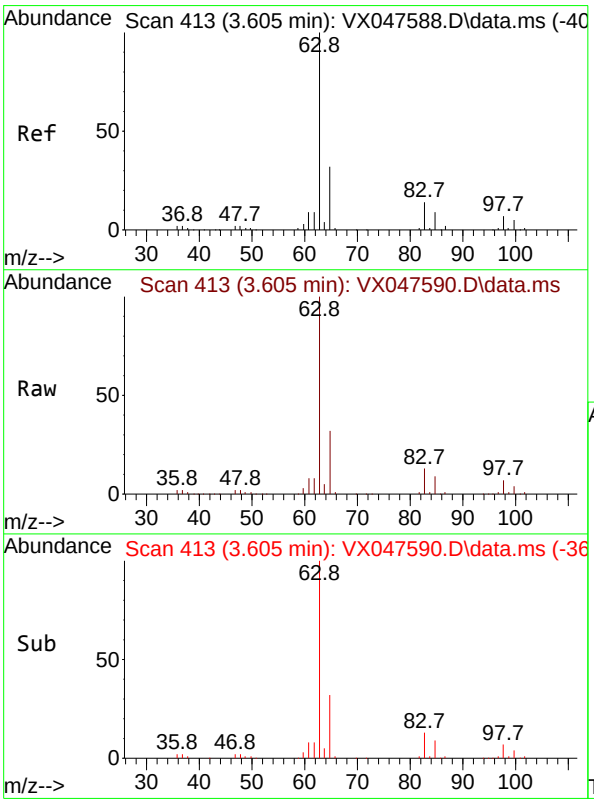
#23
Vinyl Acetate
Concen: 773.364 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 4504849

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

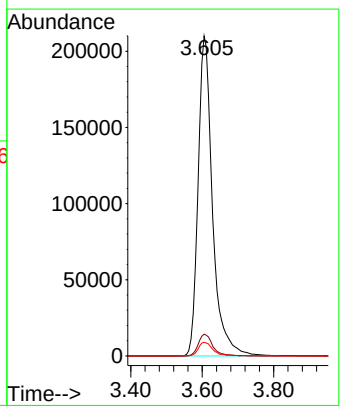


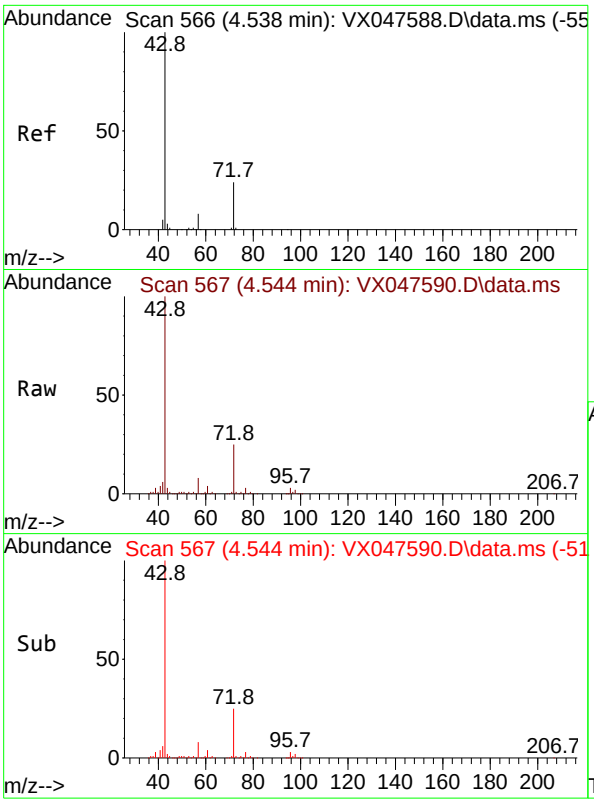


#24
1,1-Dichloroethane
Concen: 151.776 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 587129

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.2
100	4.3	2.3	6.9



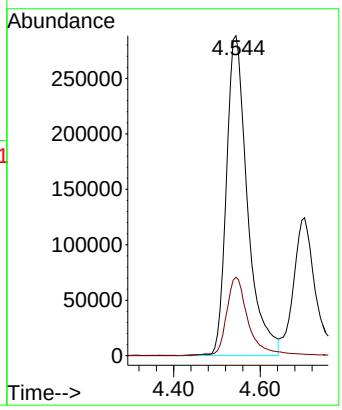


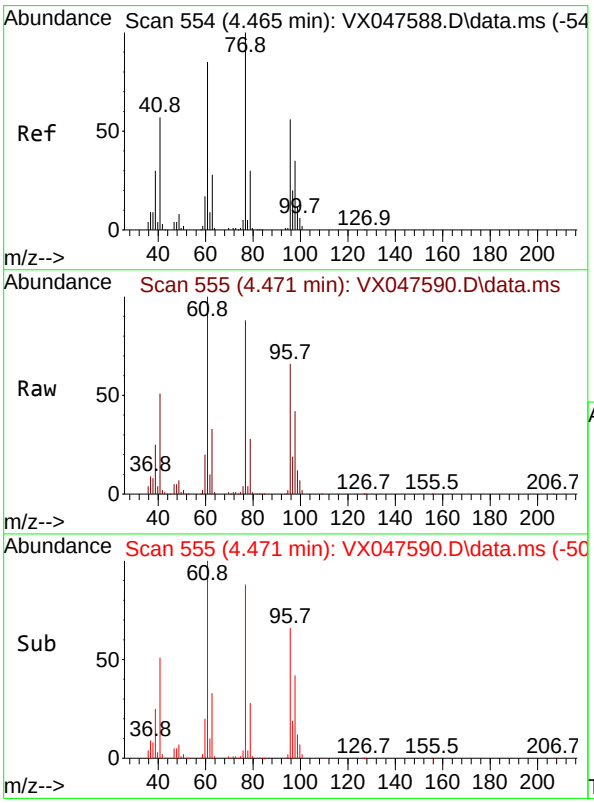
#25
2-Butanone
Concen: 736.502 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 973938

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1

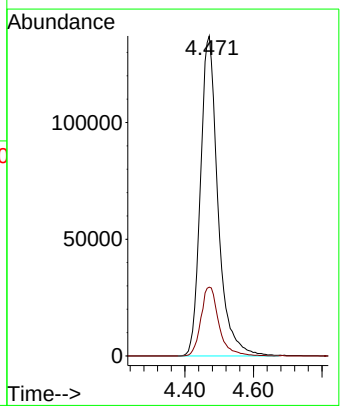


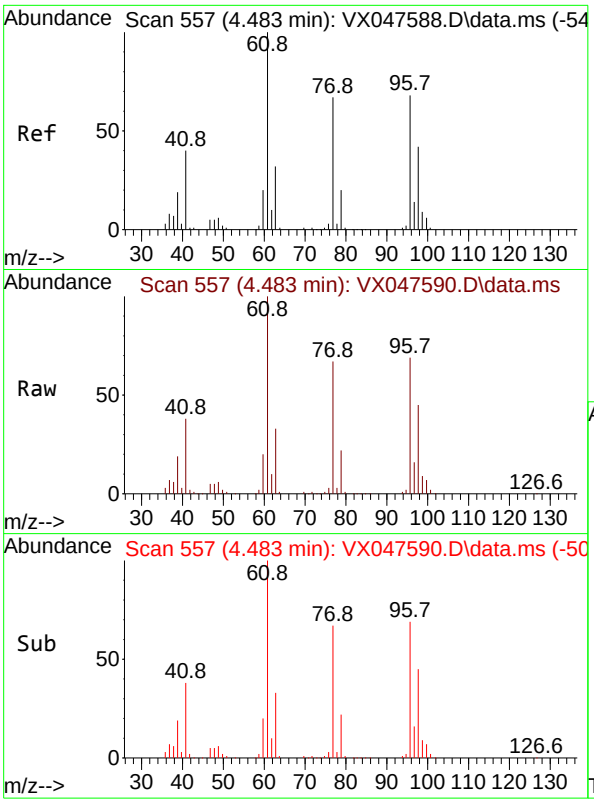


#26
2,2-Dichloropropane
Concen: 151.414 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 77 Resp: 486890

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.9	32.7



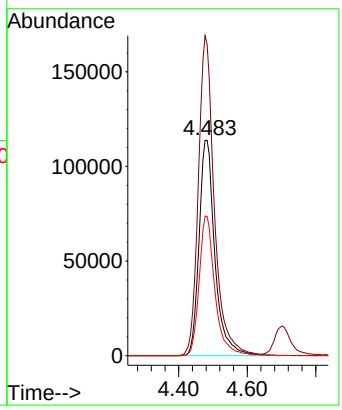


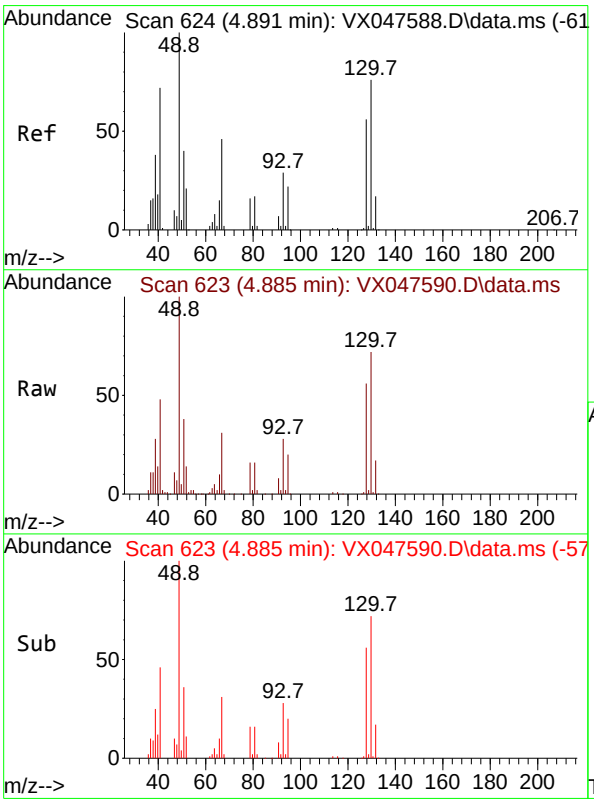
#27
cis-1,2-Dichloroethene
Concen: 152.638 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 366262

Ion	Ratio	Lower	Upper
96	100		
61	149.8	0.0	303.2
98	64.6	0.0	127.8

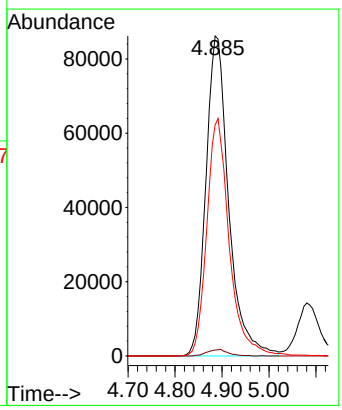


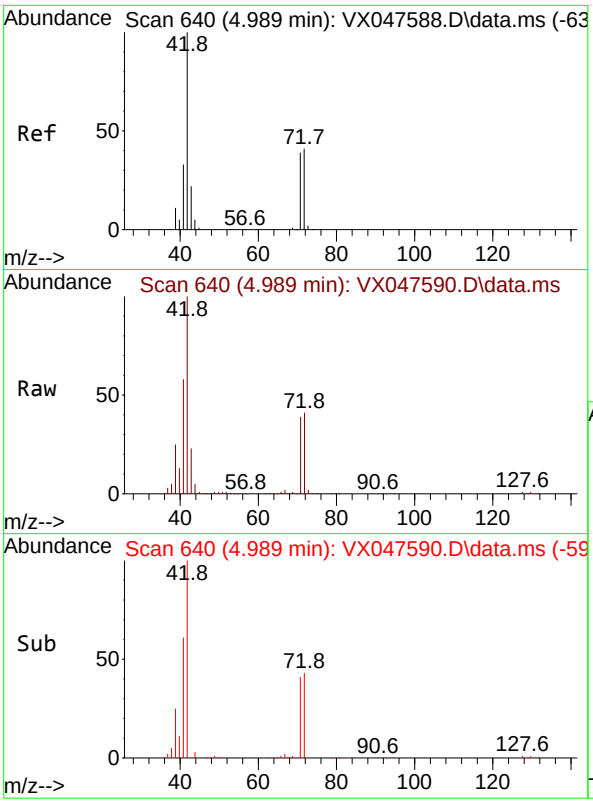


#28
Bromochloromethane
Concen: 171.451 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 49 Resp: 289548

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	73.2	57.8	86.8



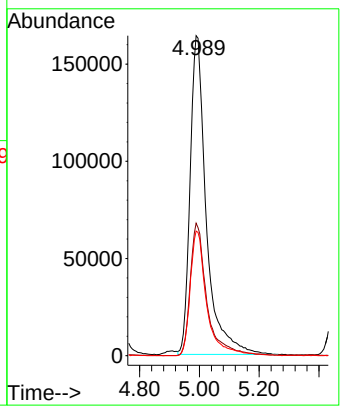


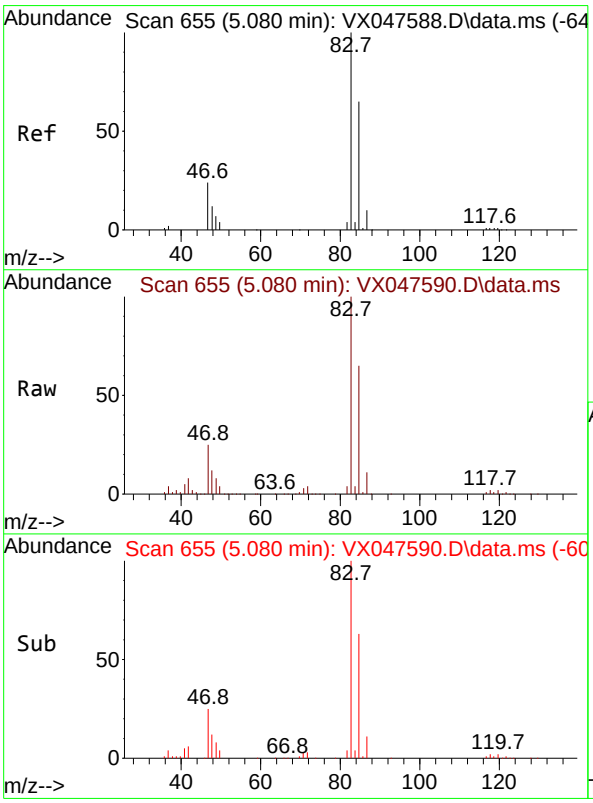
#29
Tetrahydrofuran
Concen: 774.811 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 616374

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.2	51.2
71	39.9	31.9	47.9

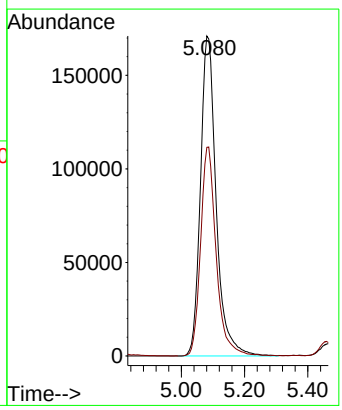


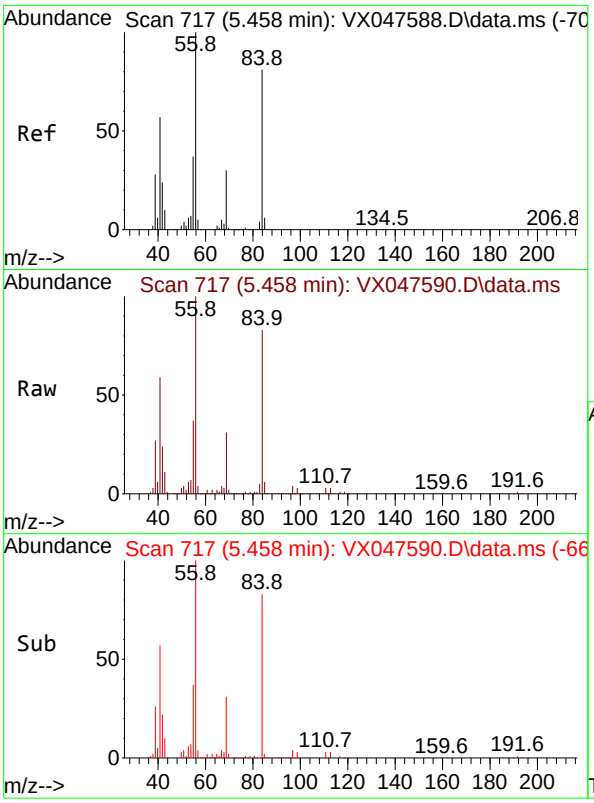


#30
Chloroform
Concen: 151.367 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 591709

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.6



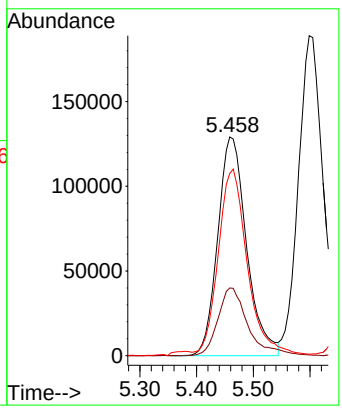


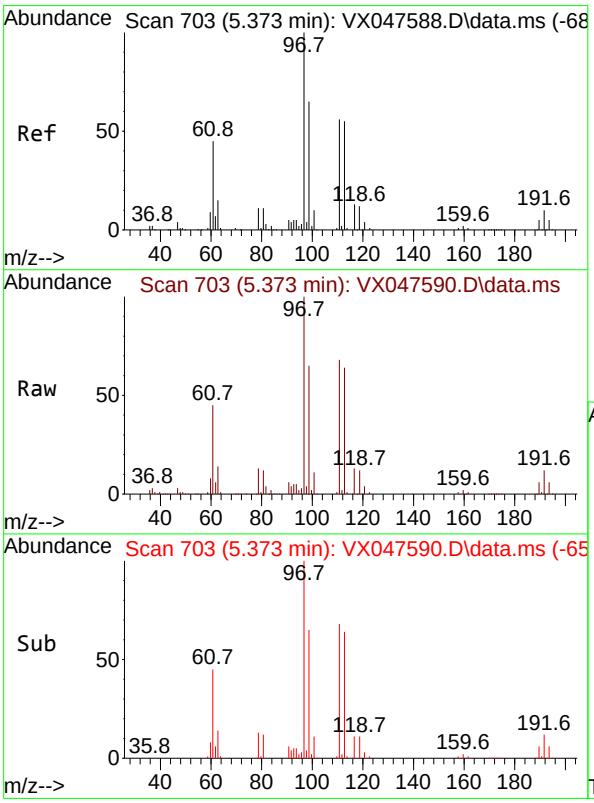
#31
Cyclohexane
Concen: 141.570 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 456119

Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	81.5	64.6	97.0

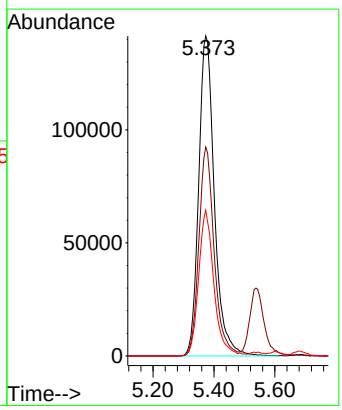


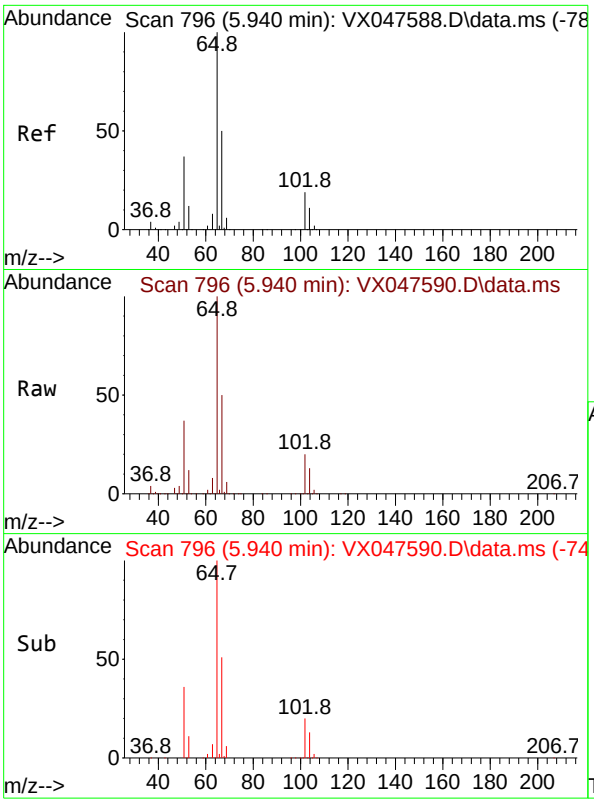


#32
1,1,1-Trichloroethane
Concen: 152.802 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 97 Resp: 506654

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.2	35.8	53.8



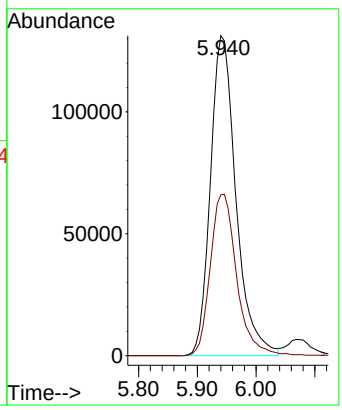


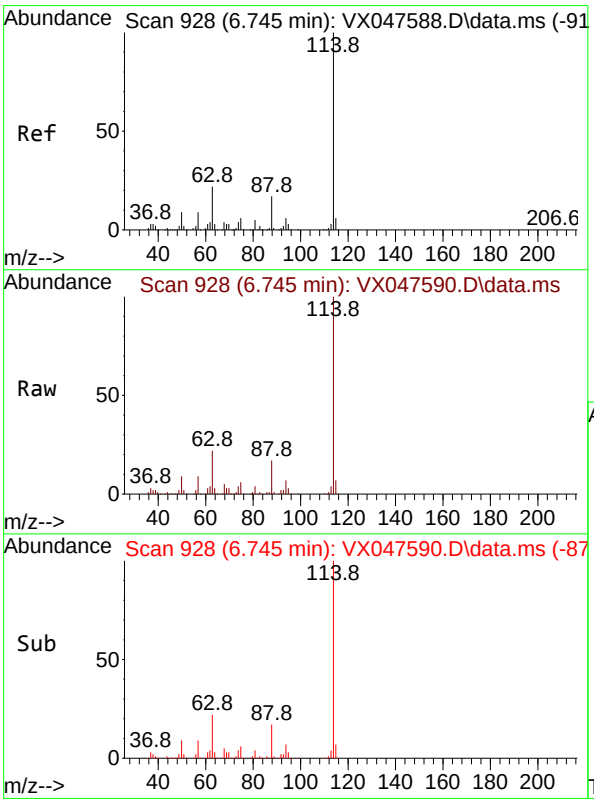
#33
1,2-Dichloroethane-d4
Concen: 162.673 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 396627

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0

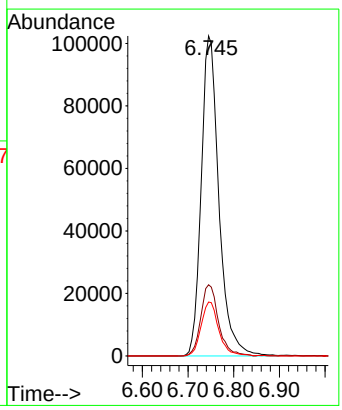


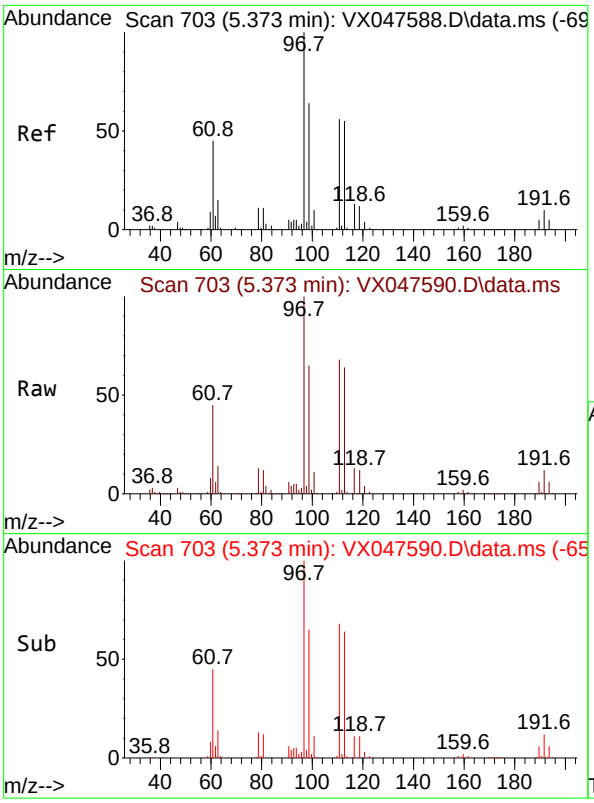


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:114 Resp: 274804

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2



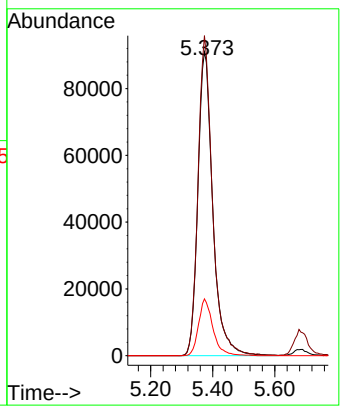


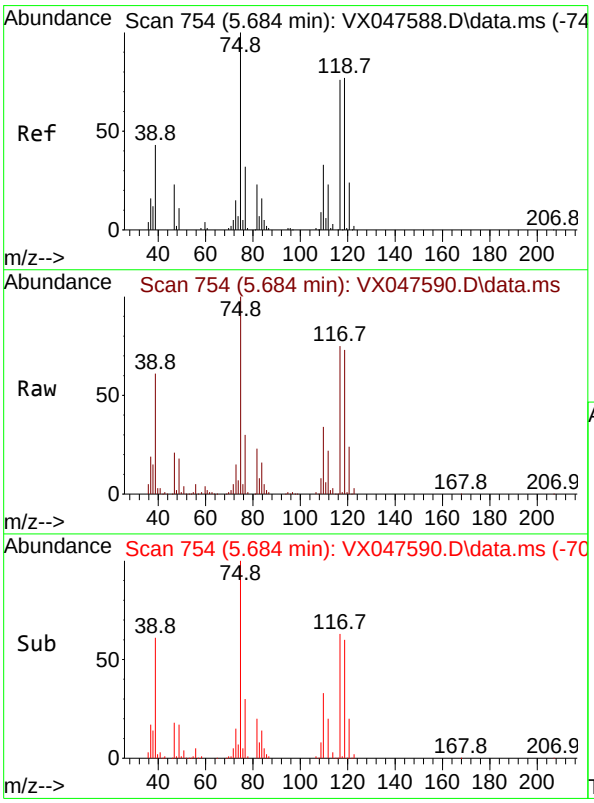
#35
Dibromofluoromethane
Concen: 164.802 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 303728

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.1	14.2	21.4

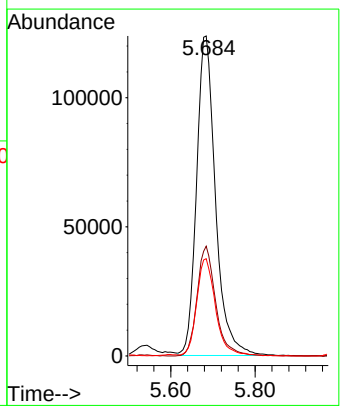


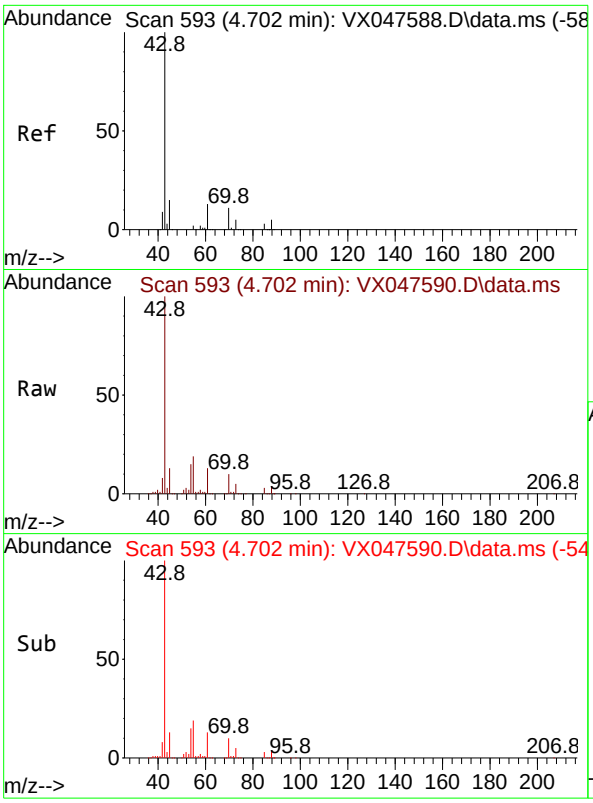


#36
1,1-Dichloropropene
Concen: 143.556 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 386601

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	30.6	24.3	36.5



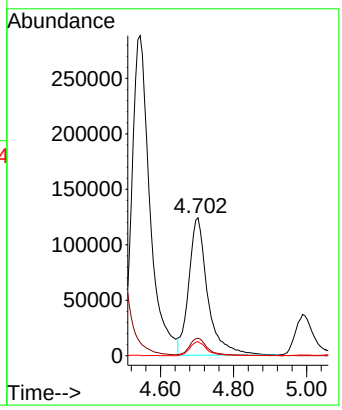


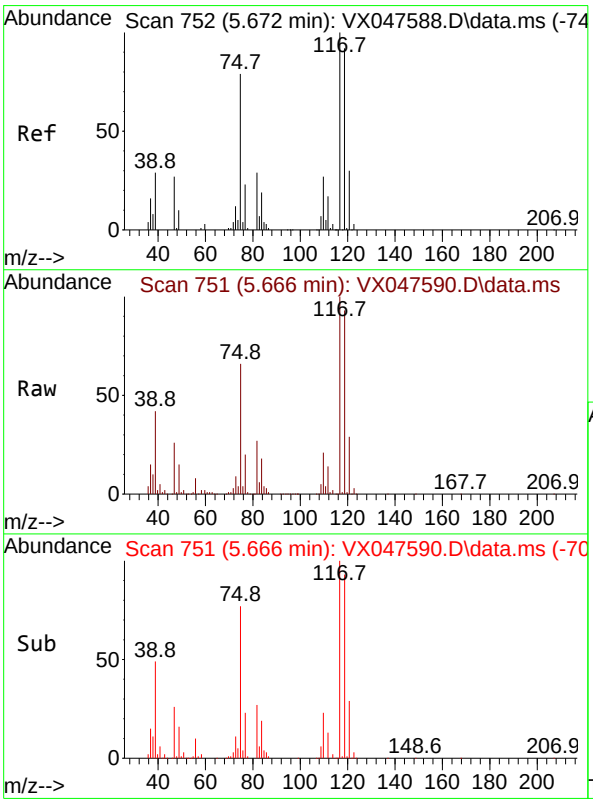
#37
Ethyl Acetate
Concen: 154.141 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 444461

Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.8	14.8
70	9.5	7.9	11.9

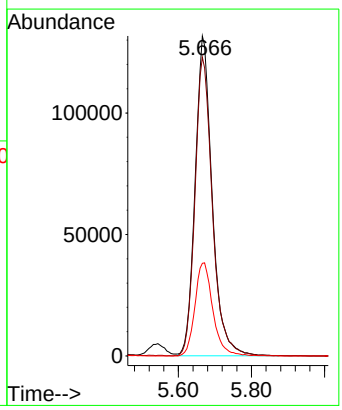


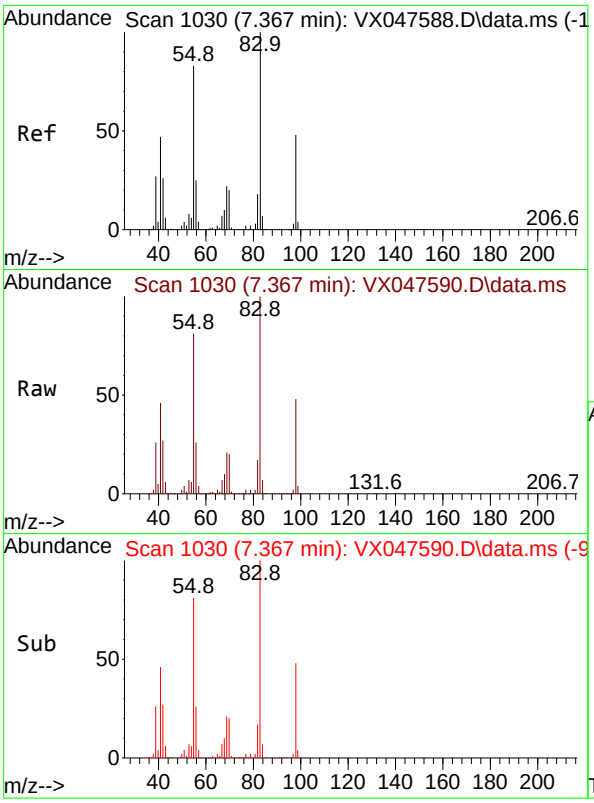


#38
Carbon Tetrachloride
Concen: 146.021 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 427263

Ion	Ratio	Lower	Upper
117	100		
119	93.3	73.4	110.2
121	29.0	23.8	35.6



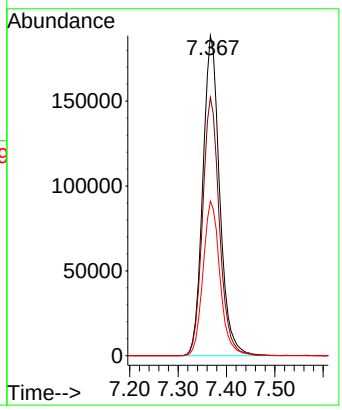


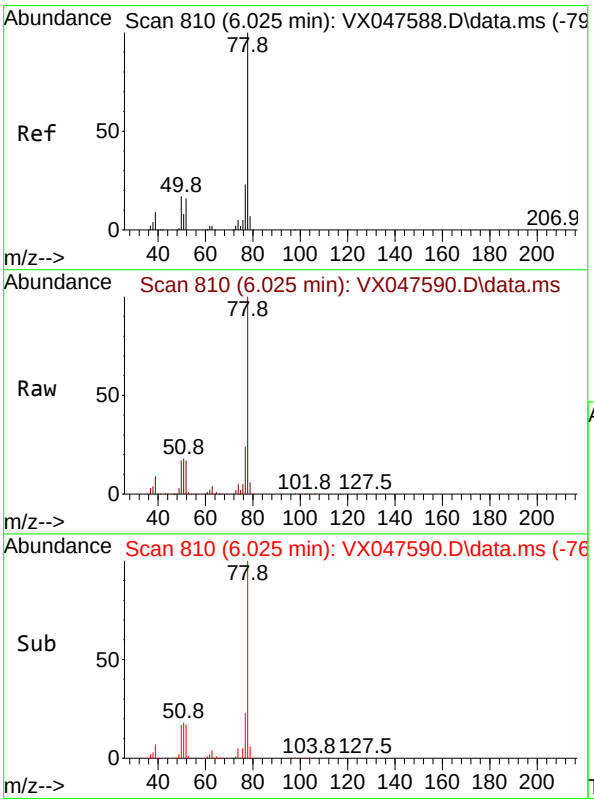
#39
Methylcyclohexane
Concen: 149.395 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 456694

Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.3	38.1	57.1

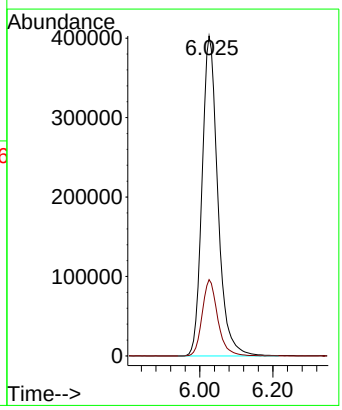


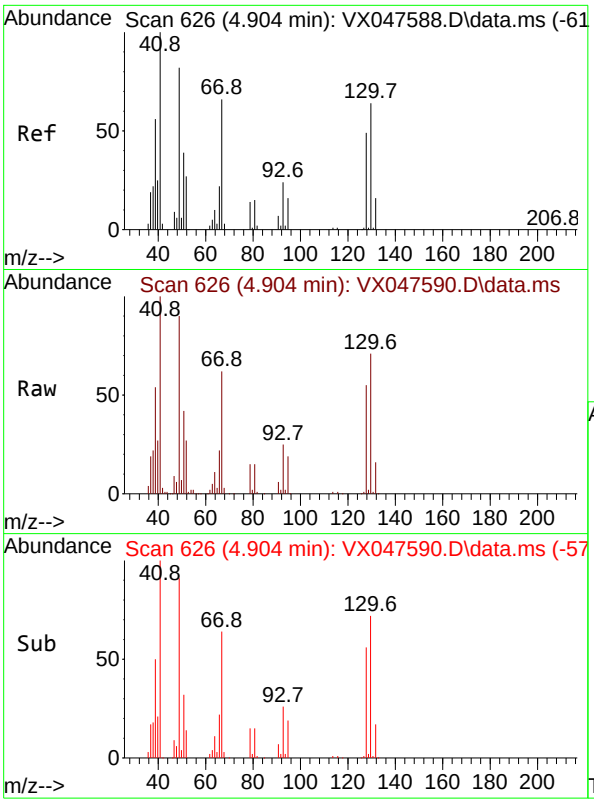


#40
Benzene
Concen: 147.057 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 78 Resp: 1202846

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2



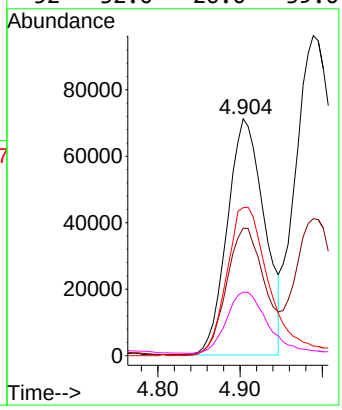


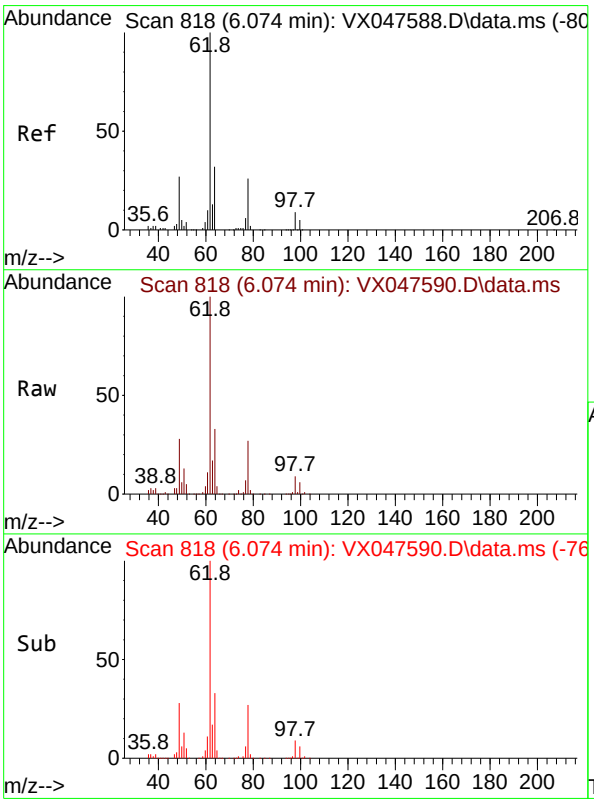
#41
Methacrylonitrile
Concen: 149.951 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 223218

Ion	Ratio	Lower	Upper
41	100		
39	54.5	43.3	64.9
67	74.6	58.6	87.8
52	32.0	26.0	39.0

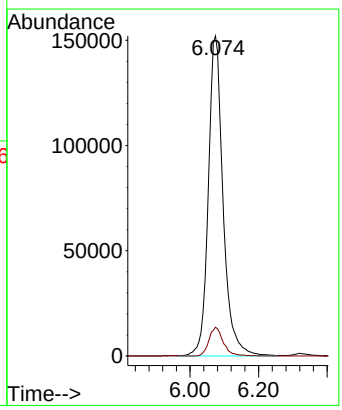


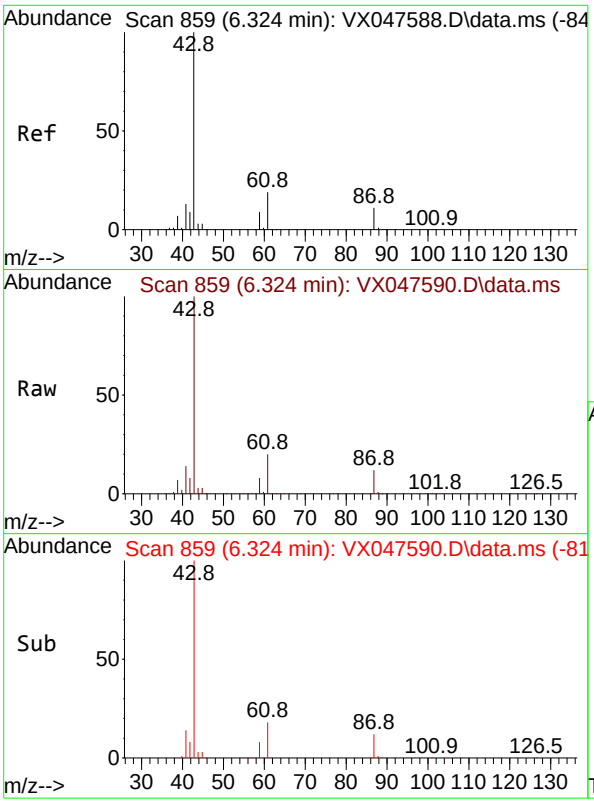


#42
1,2-Dichloroethane
Concen: 146.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 455978

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



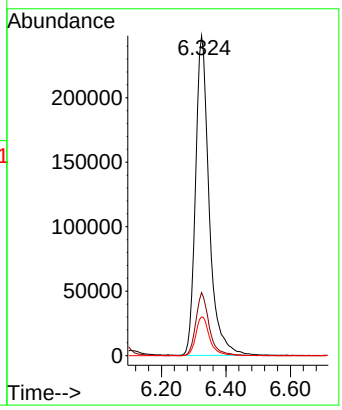


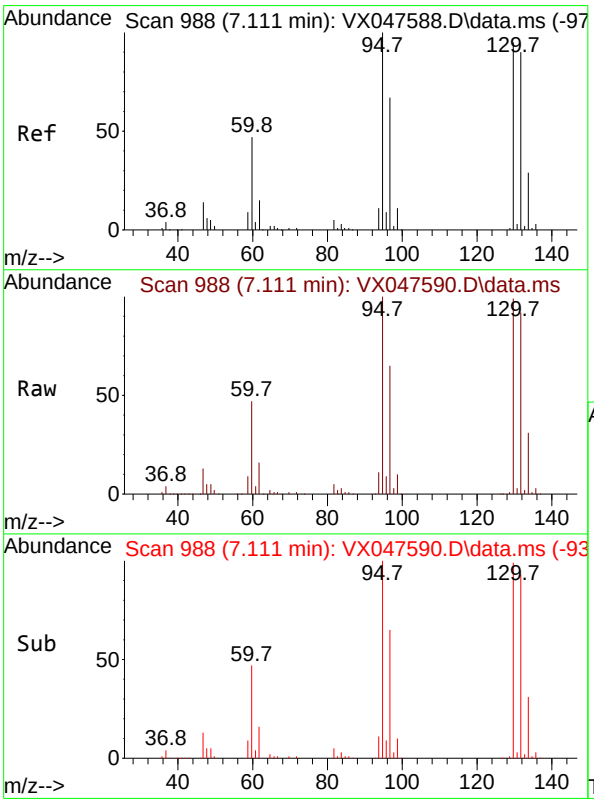
#43
Isopropyl Acetate
Concen: 153.283 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 724888

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.3	9.6	14.4

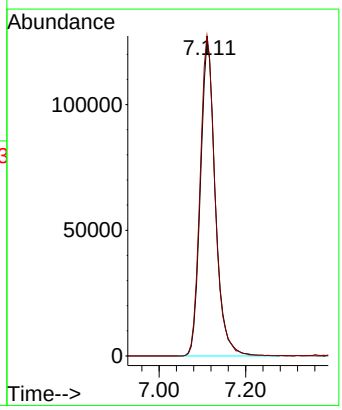


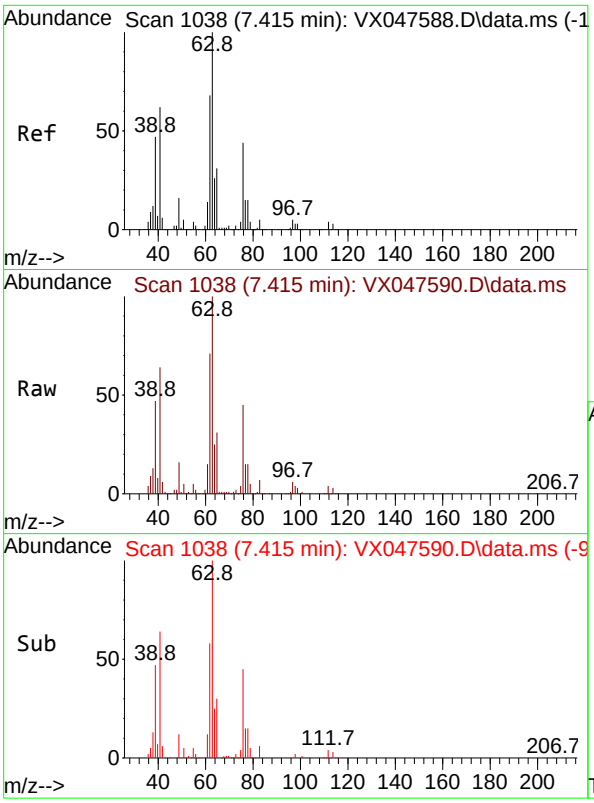


#44
Trichloroethene
Concen: 151.542 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:130 Resp: 299673

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	210.8



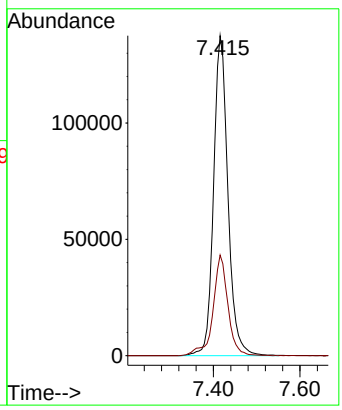


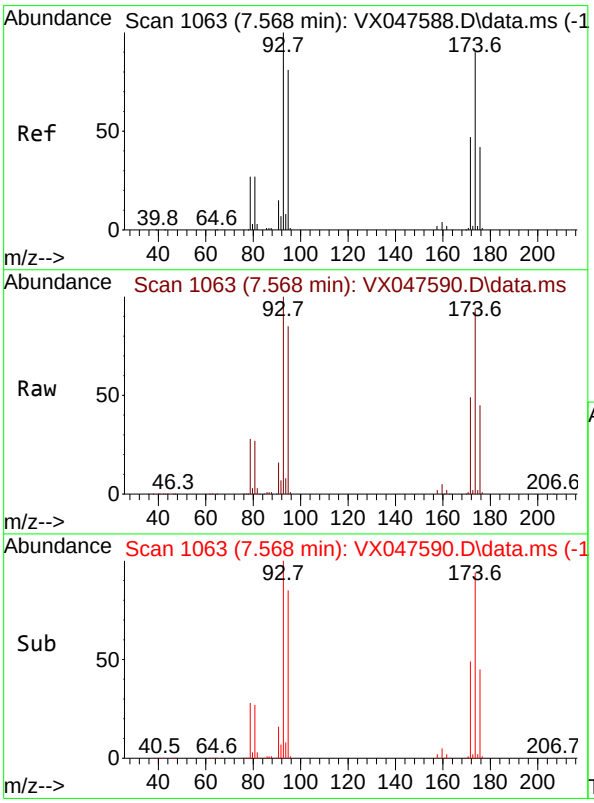
#45
1,2-Dichloropropane
Concen: 151.219 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 316720

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

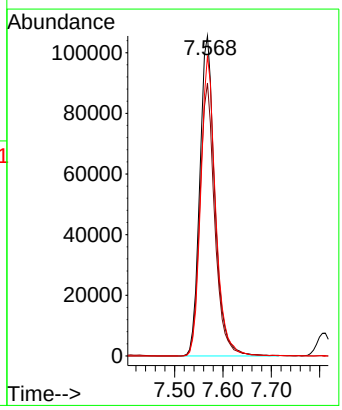


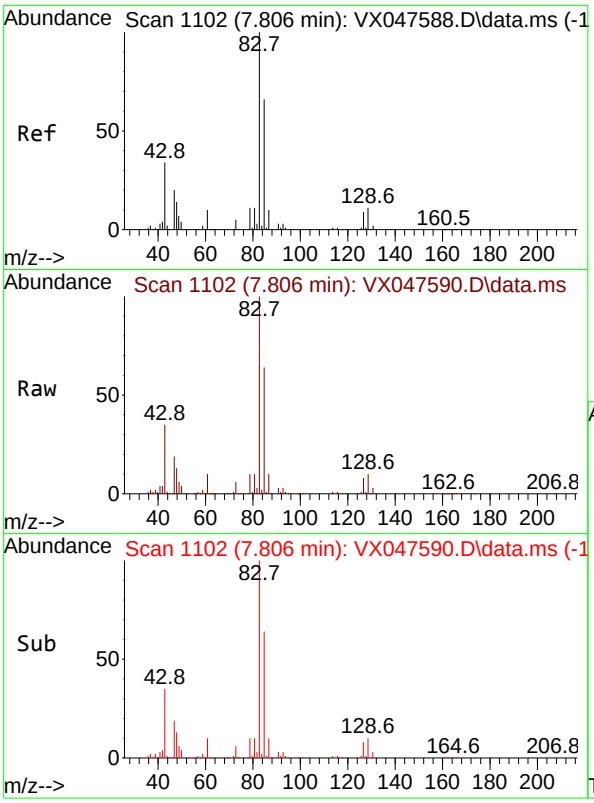


#46
Dibromomethane
Concen: 149.954 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 93 Resp: 228550

Ion	Ratio	Lower	Upper
93	100		
95	84.2	65.0	97.6
174	92.5	71.6	107.4



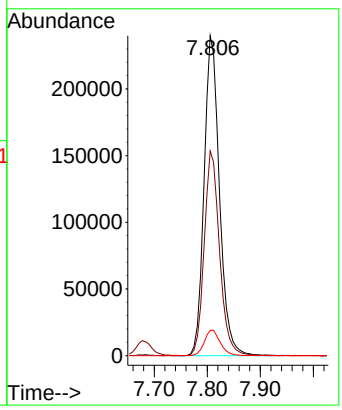


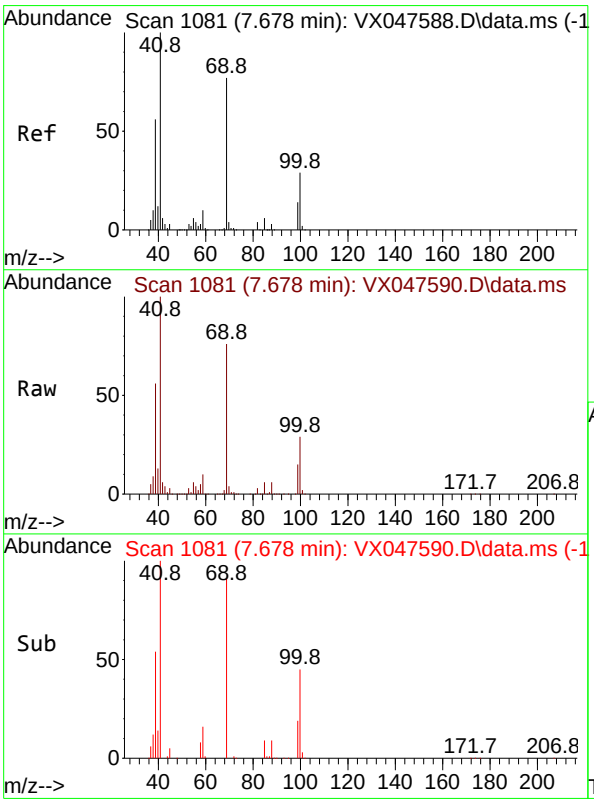
#47
Bromodichloromethane
Concen: 153.710 ug/l
RT: 7.806 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 483438

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7
127	7.9	6.9	10.3

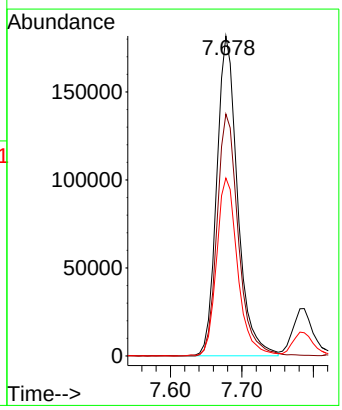


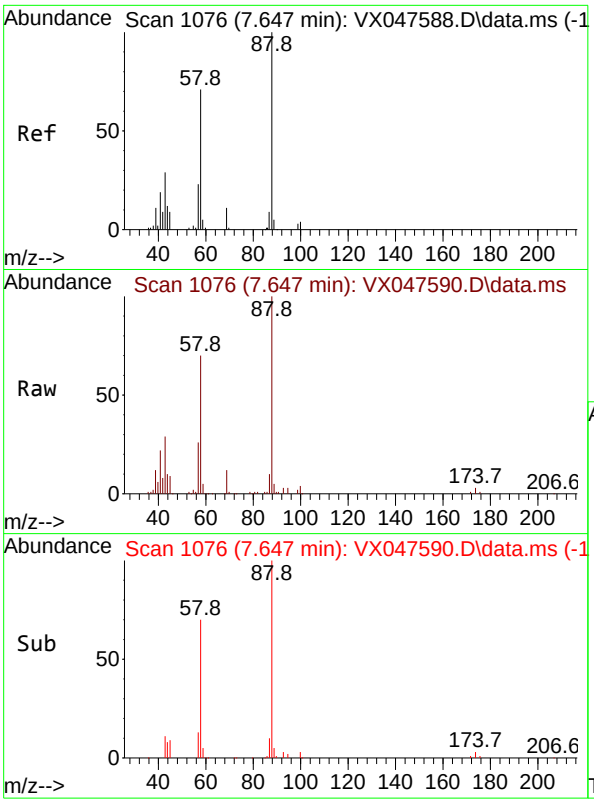


#48
Methyl methacrylate
Concen: 156.194 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 367931

Ion	Ratio	Lower	Upper
41	100		
69	77.2	61.4	92.2
39	56.5	45.8	68.6



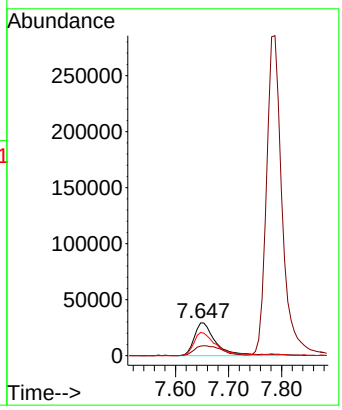


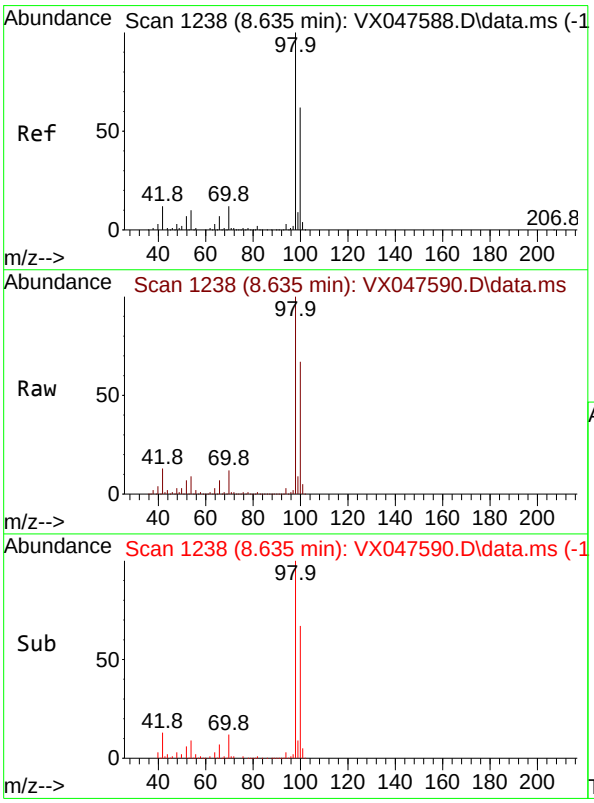
#49
1,4-Dioxane
Concen: 3475.565 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 82739

Ion	Ratio	Lower	Upper
88	100		
43	38.5	30.2	45.2
58	73.0	59.5	89.3

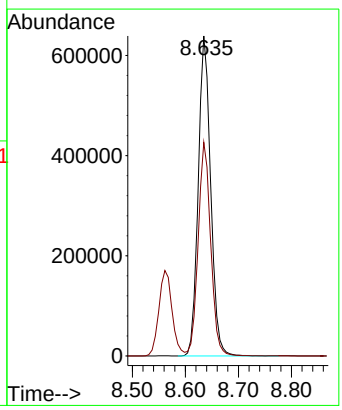


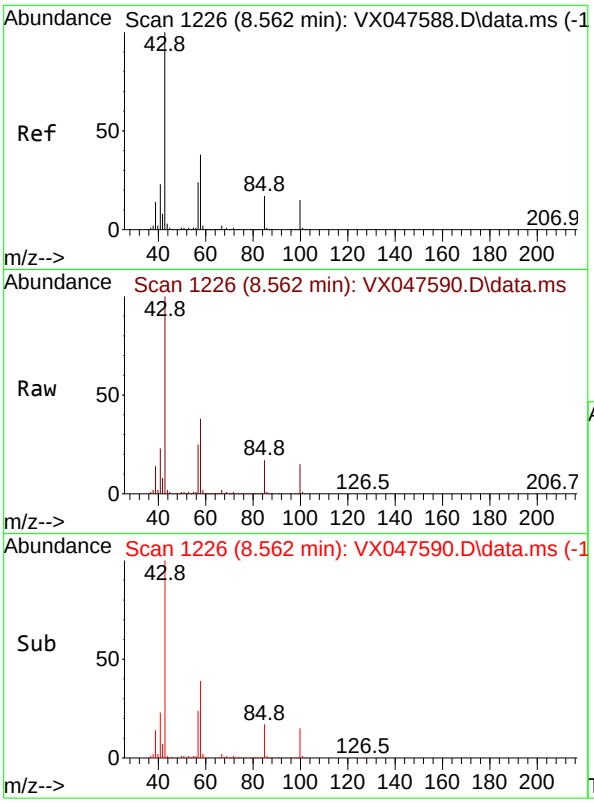


#50
Toluene-d8
Concen: 163.253 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 98 Resp: 1041079

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



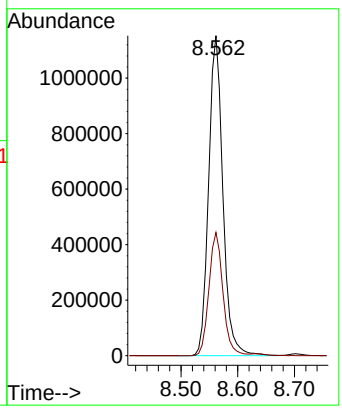


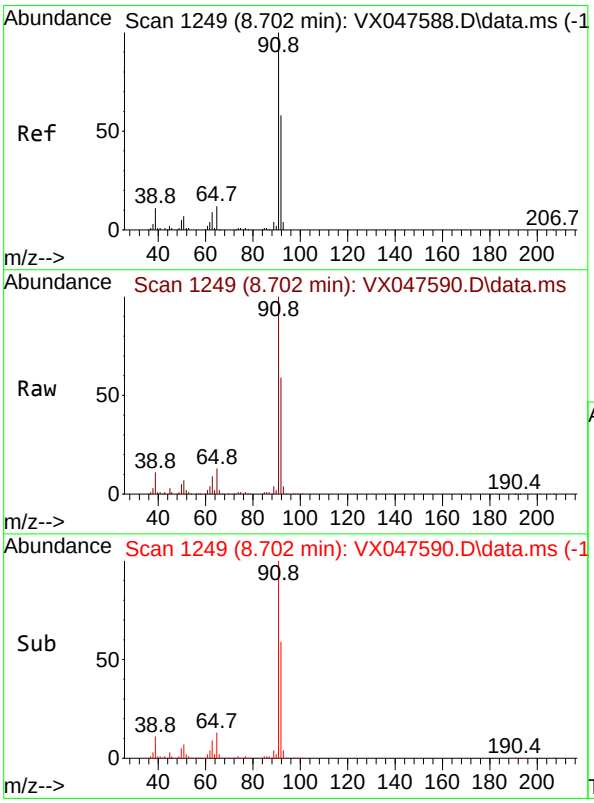
#51
4-Methyl-2-Pentanone
Concen: 765.849 ug/l
RT: 8.562 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2008063

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

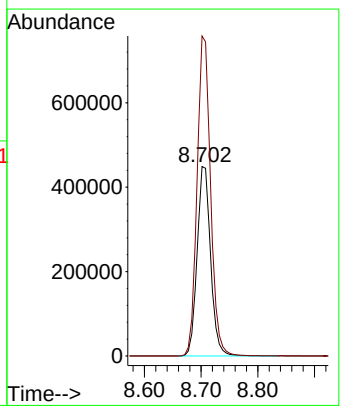


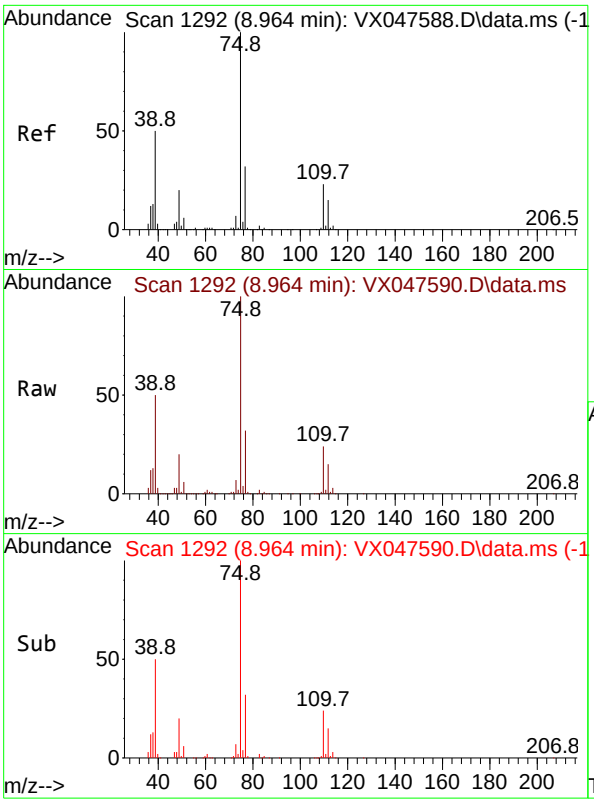


#52
Toluene
Concen: 146.712 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 92 Resp: 739332

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.1	205.7



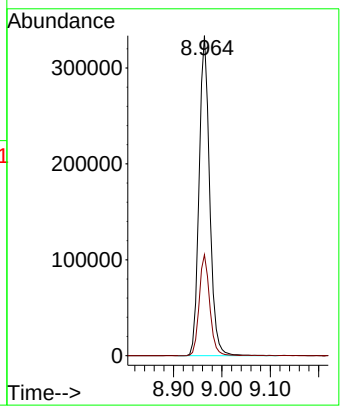


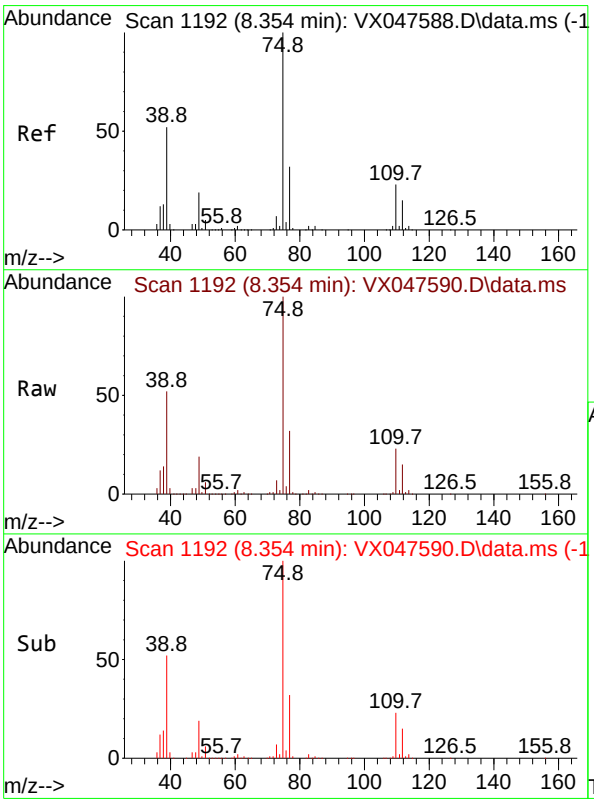
#53
t-1,3-Dichloropropene
Concen: 157.076 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 503912

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

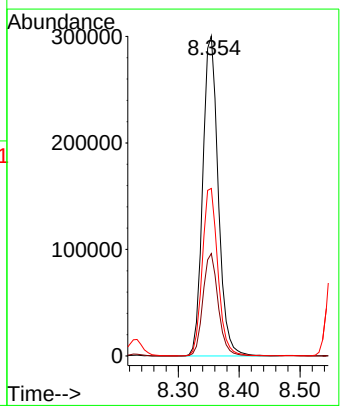


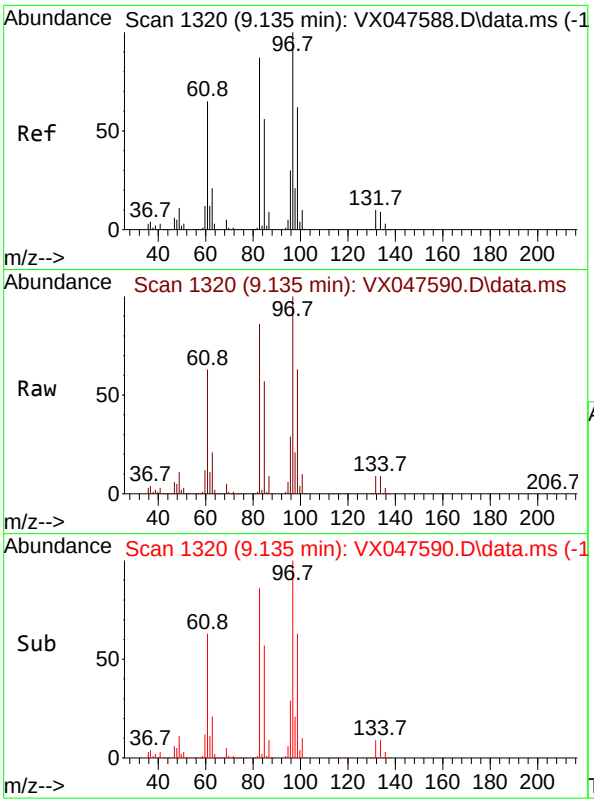


#54
cis-1,3-Dichloropropene
Concen: 154.732 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 530566

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.6
39	52.3	41.4	62.2



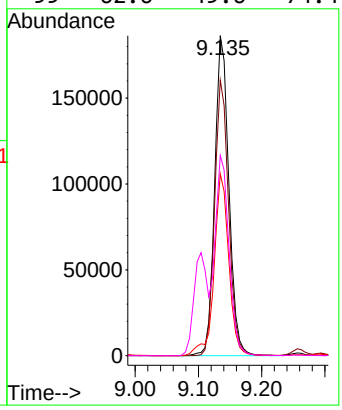


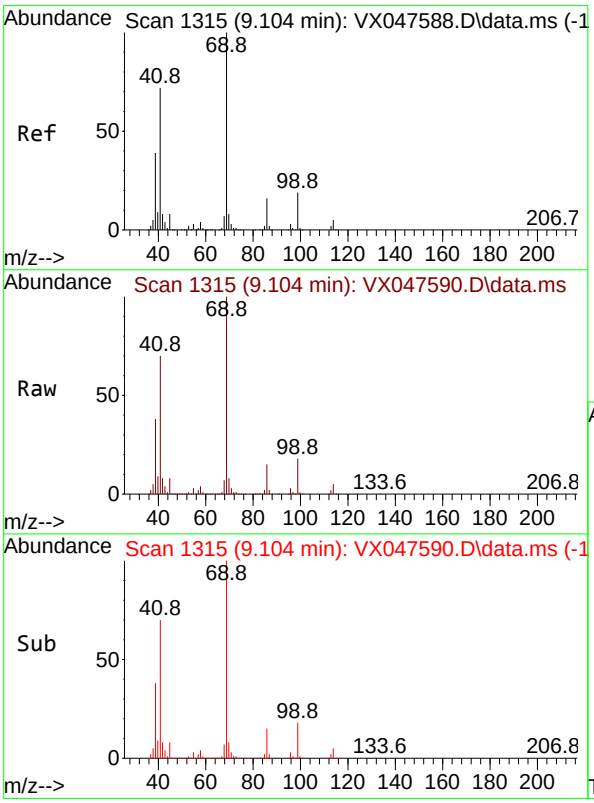
#55
1,1,2-Trichloroethane
Concen: 148.781 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 289103

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	56.8	45.0	67.6
99	62.6	49.6	74.4

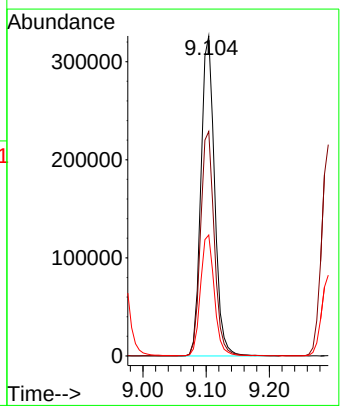


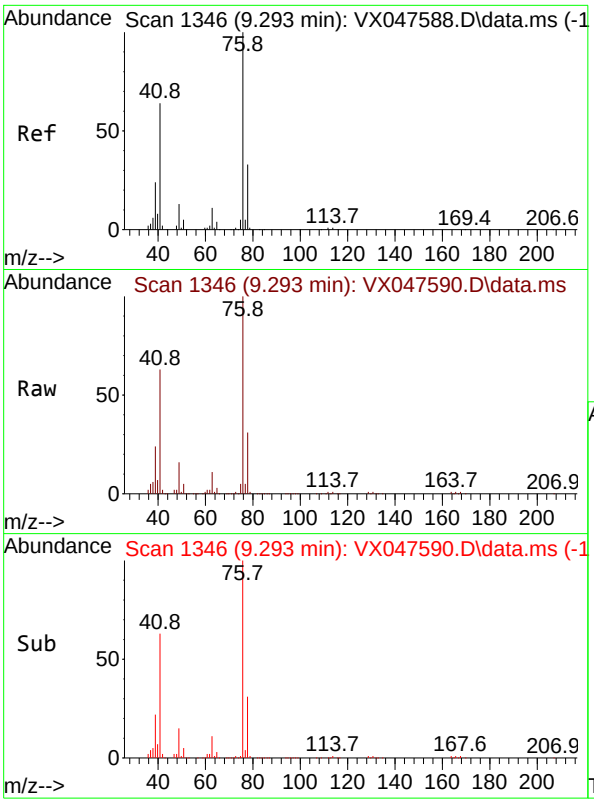


#56
Ethyl methacrylate
Concen: 160.773 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 69 Resp: 490623

Ion	Ratio	Lower	Upper
69	100		
41	70.5	58.6	87.8
39	38.2	31.5	47.3



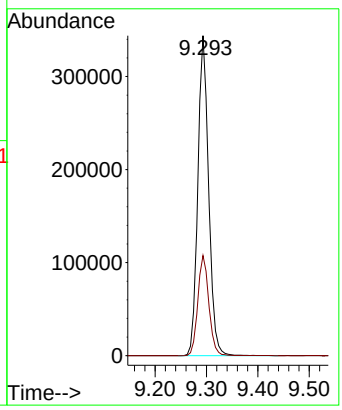


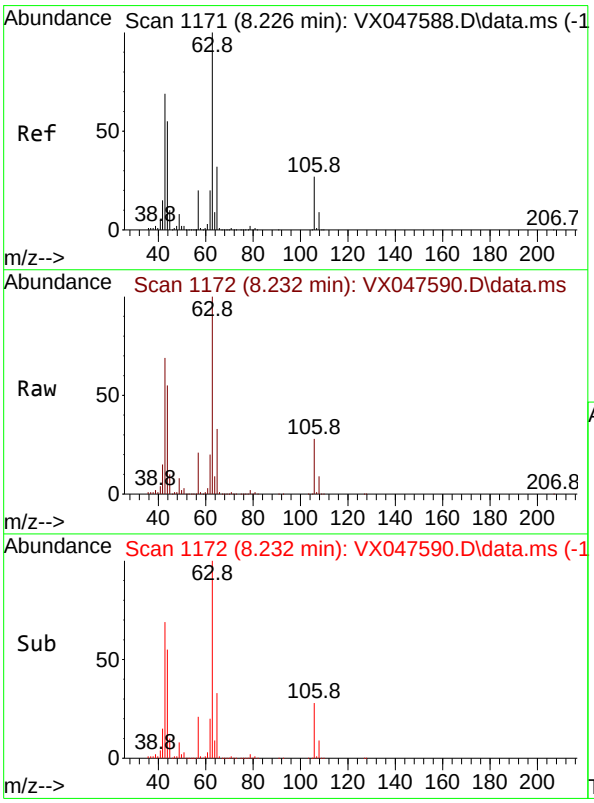
#57
1,3-Dichloropropane
Concen: 150.426 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 502121

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4

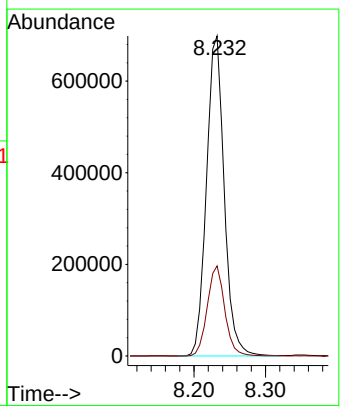


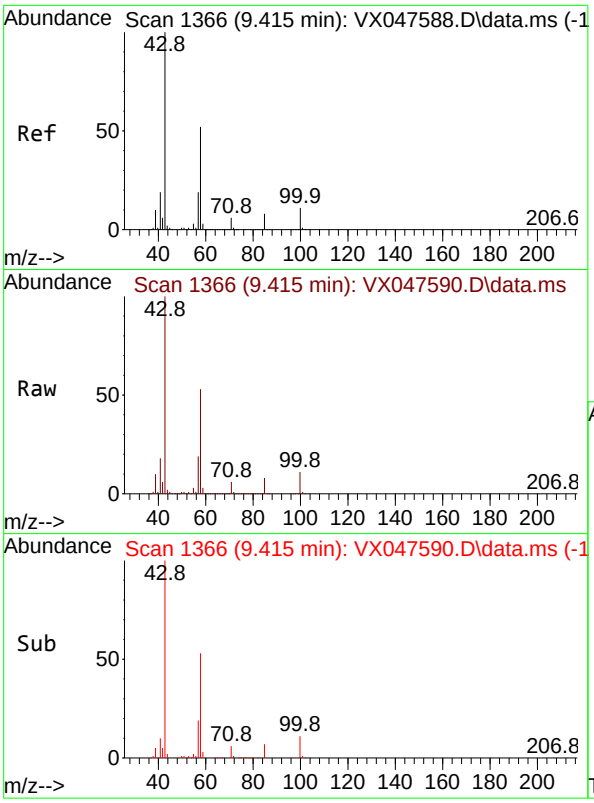


#58
2-Chloroethyl Vinyl ether
Concen: 749.661 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 1202206

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.9	32.9



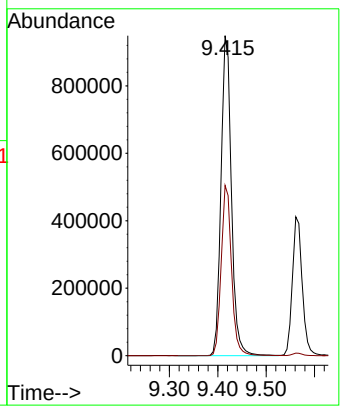


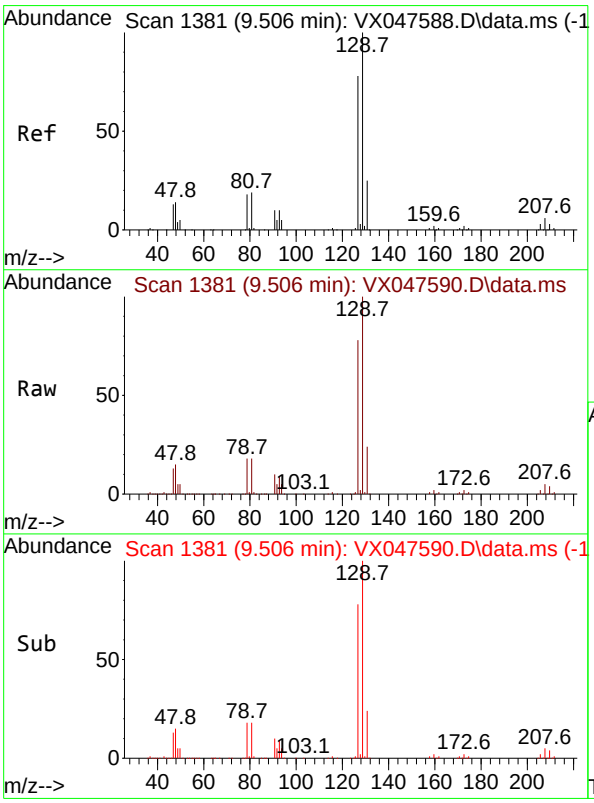
#59
2-Hexanone
Concen: 750.035 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1412417

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2

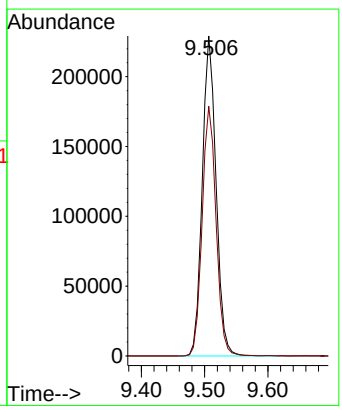


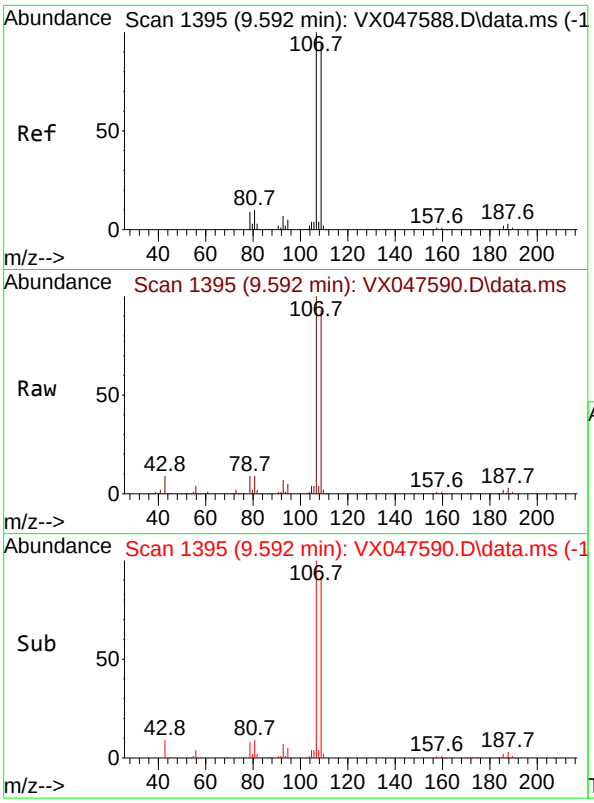


#60
Dibromochloromethane
Concen: 155.318 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:129 Resp: 347748

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.4	115.2



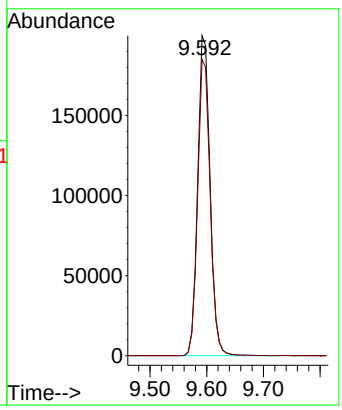


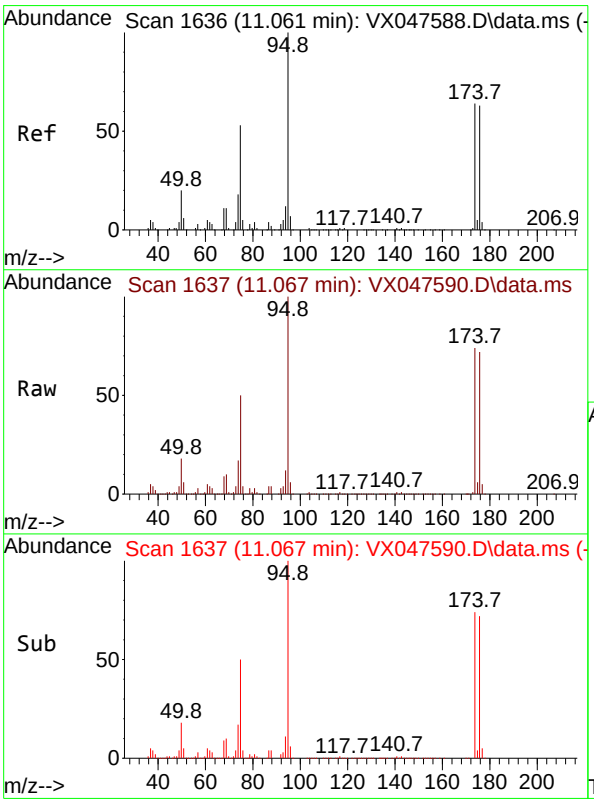
#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 302715

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.3	112.9

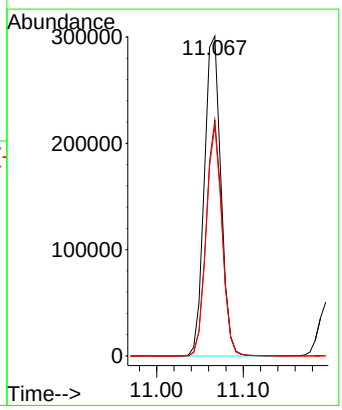


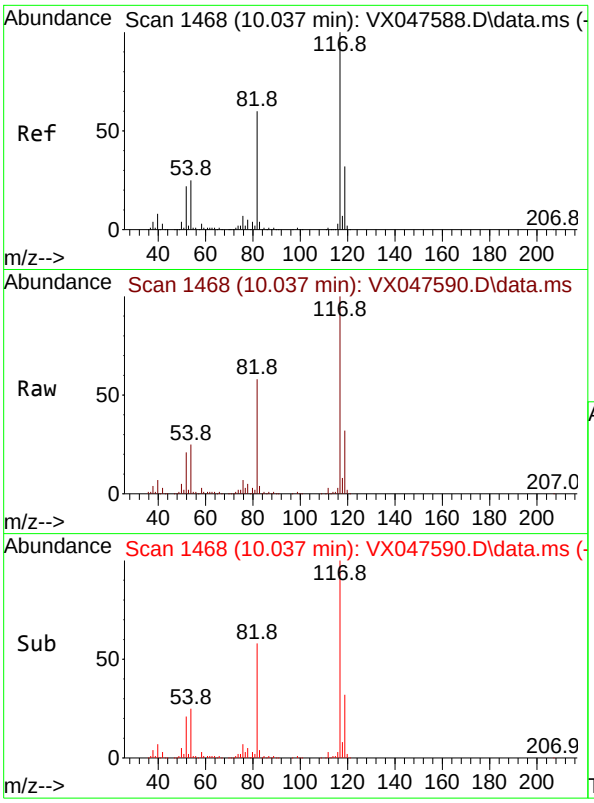


#62
4-Bromofluorobenzene
Concen: 165.020 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 95 Resp: 399386

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.6
176	68.5	0.0	138.4



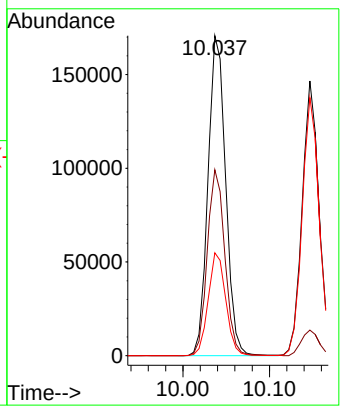


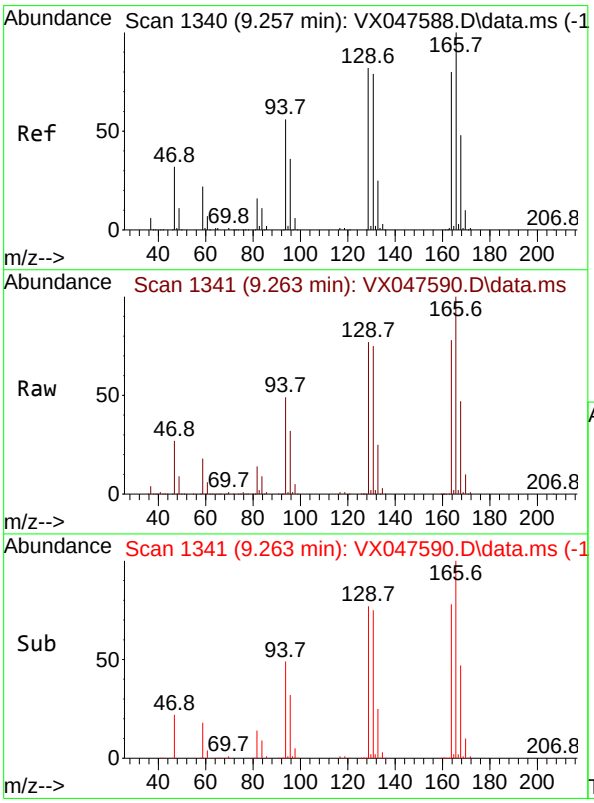
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 241818

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.2	25.2	37.8

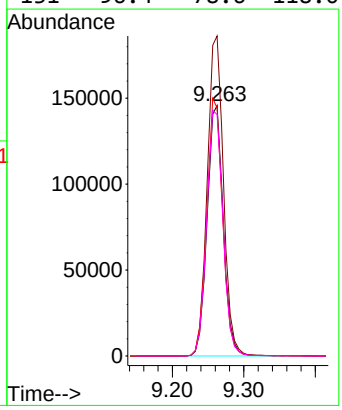


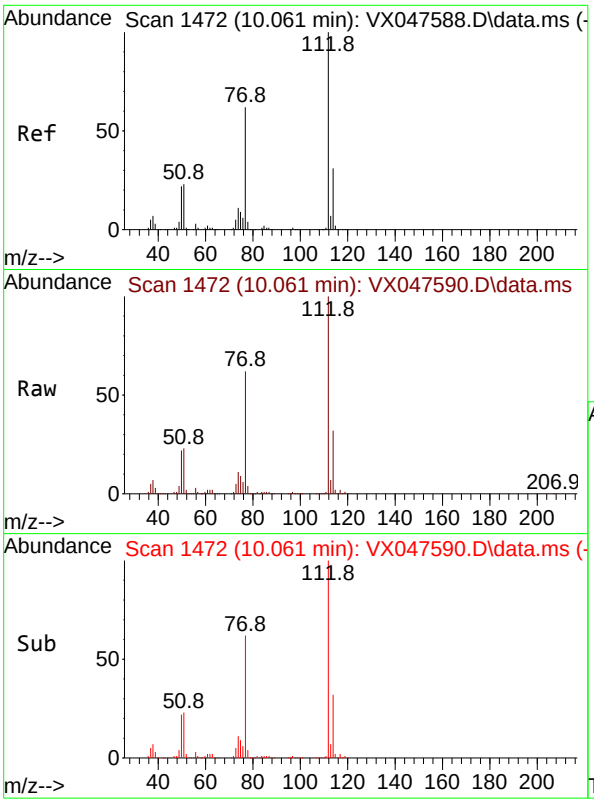


#64
Tetrachloroethene
Concen: 144.590 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:164 Resp: 227931

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.2	150.2
129	99.0	81.8	122.6
131	96.4	78.6	118.0



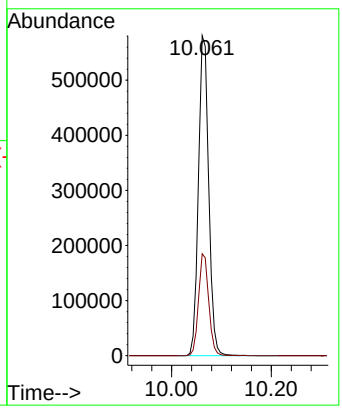


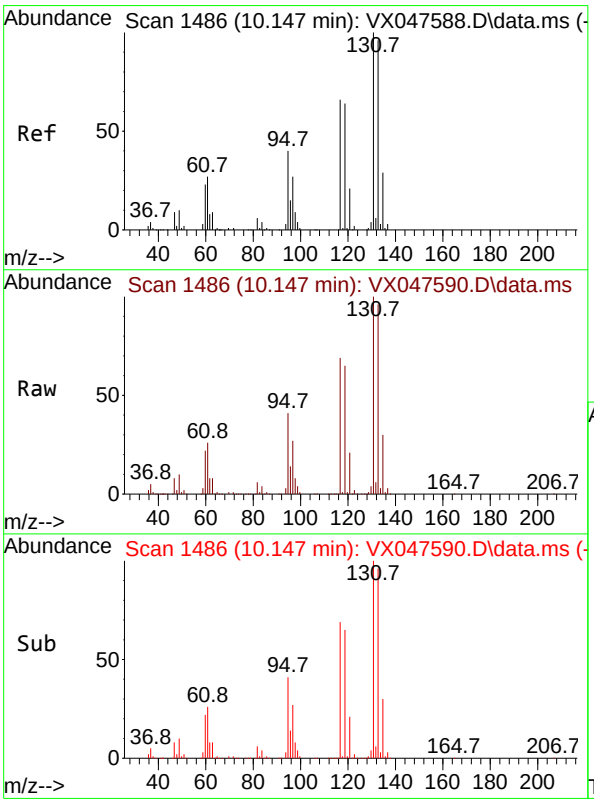
#65
Chlorobenzene
Concen: 150.763 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 828239

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.1	37.7

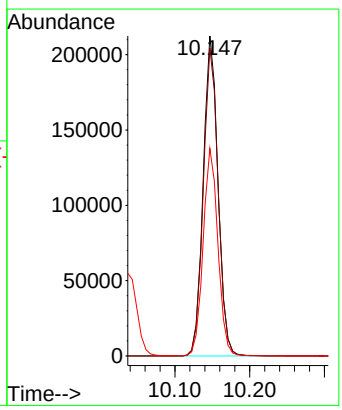


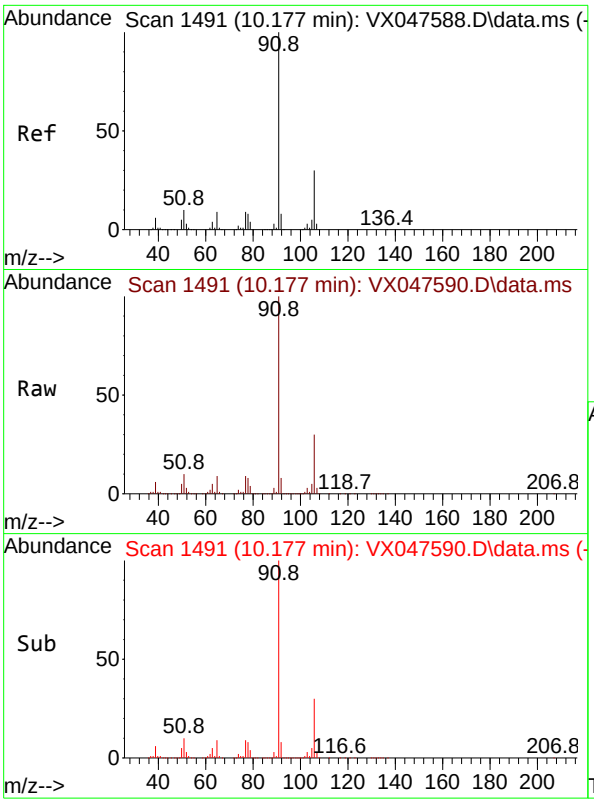


#66
1,1,1,2-Tetrachloroethane
Concen: 153.733 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:131 Resp: 291433

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.3	142.0
119	64.8	32.0	96.0



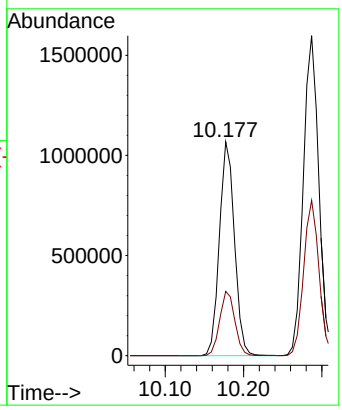


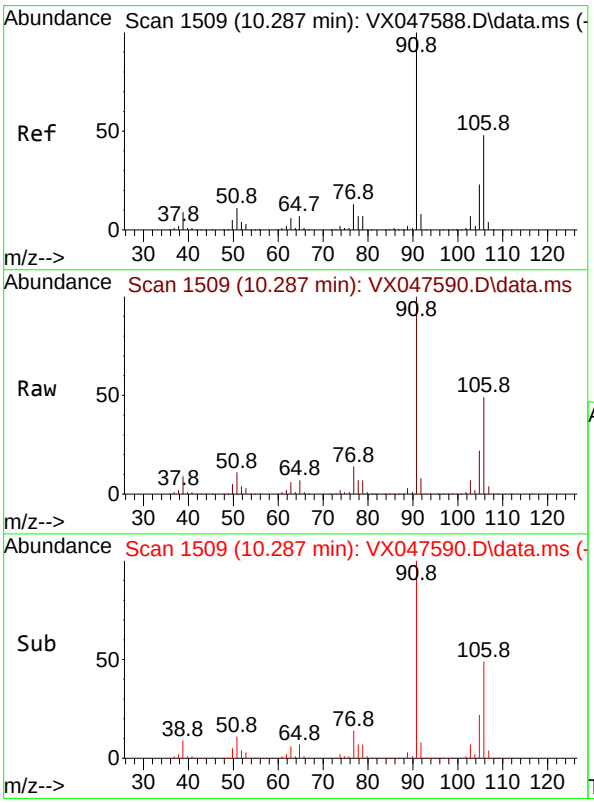
#67
Ethyl Benzene
Concen: 151.026 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1431554

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

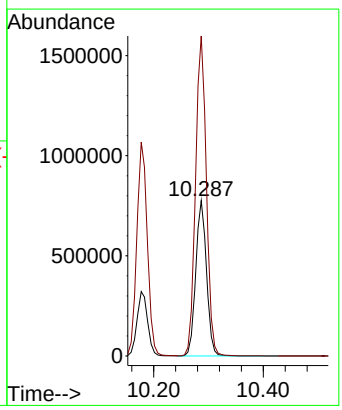


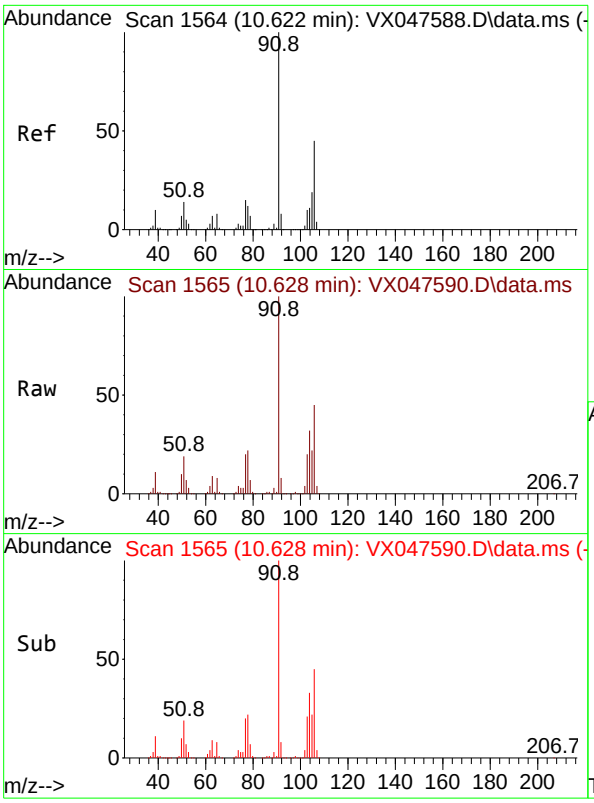


#68
m/p-Xylenes
Concen: 300.381 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 1059776

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.8	251.8



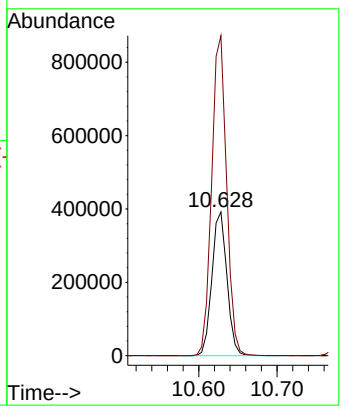


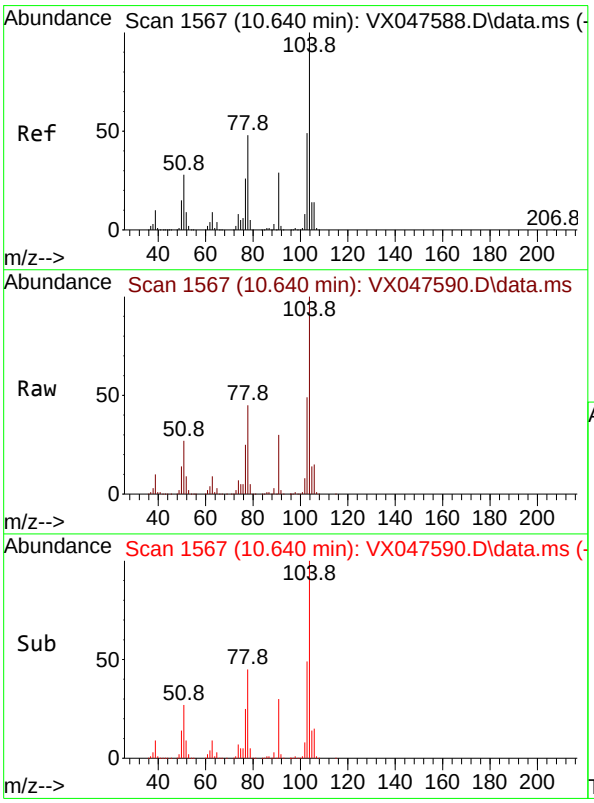
#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 521840

Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4

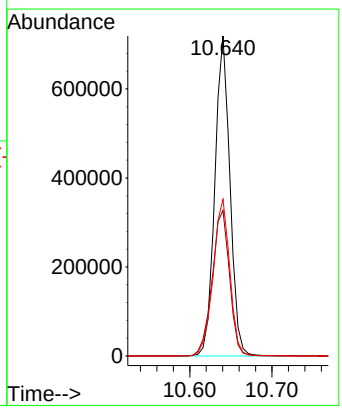


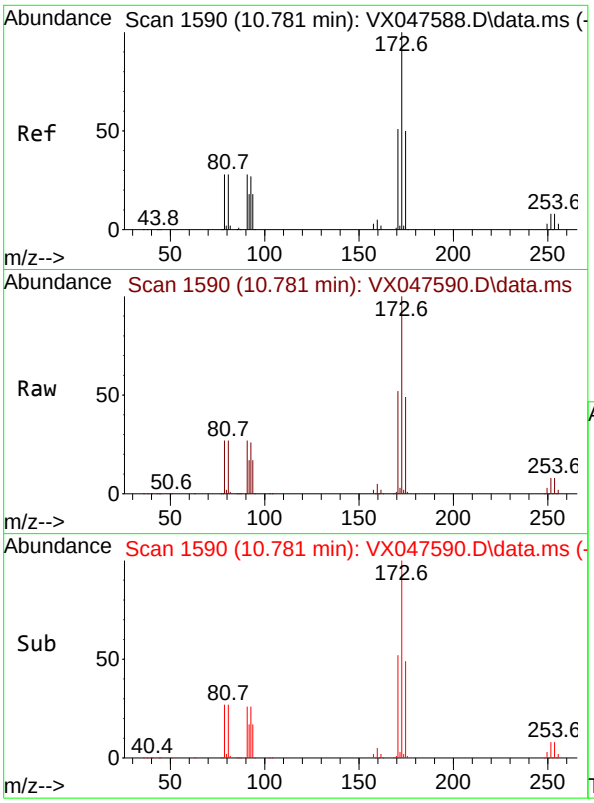


#70
Styrene
Concen: 153.449 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:104 Resp: 917532

Ion	Ratio	Lower	Upper
104	100		
78	52.4	43.1	64.7
103	54.0	43.1	64.7



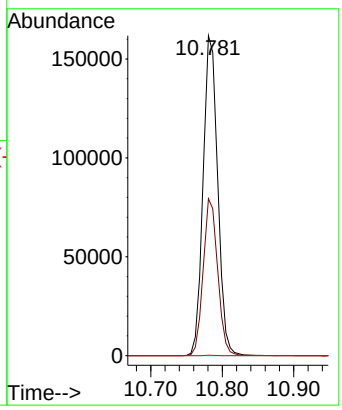


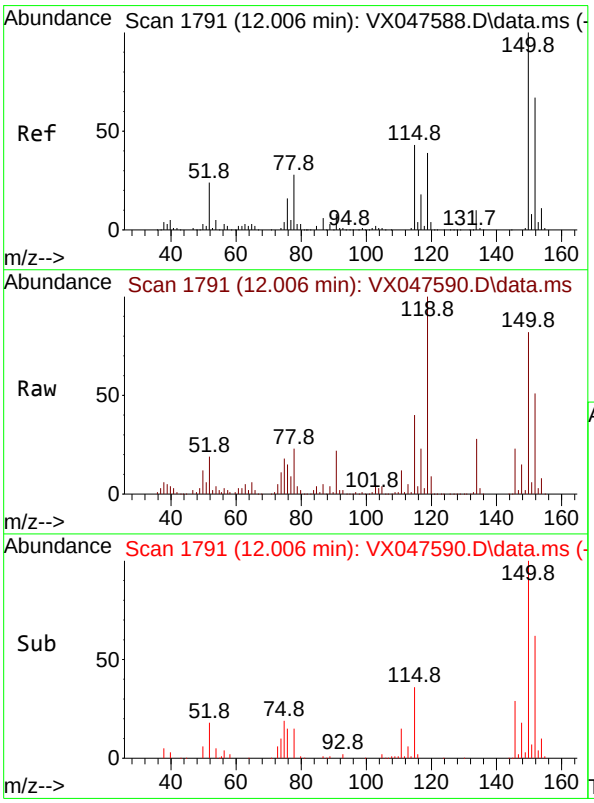
#71
Bromoform
Concen: 162.262 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 229683

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.9	74.6
254	0.1	0.1	0.1

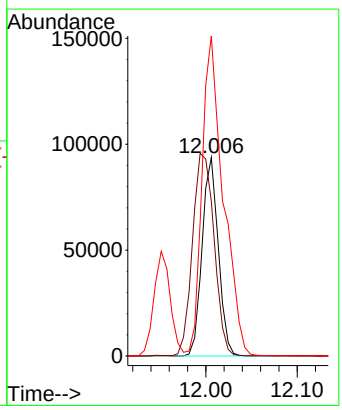


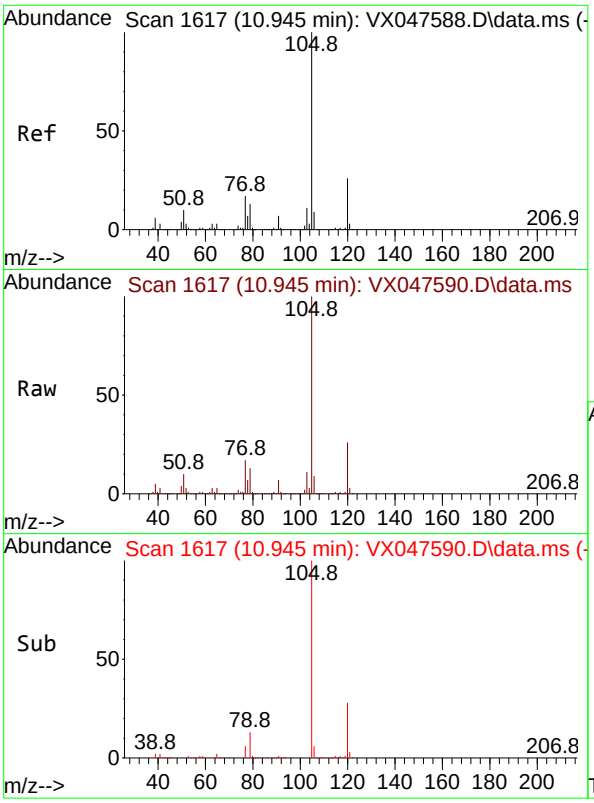


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:152 Resp: 114743

Ion	Ratio	Lower	Upper
152	100		
115	136.9	44.9	134.5#
150	212.9	0.0	352.0



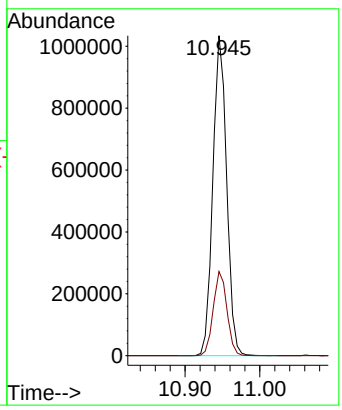


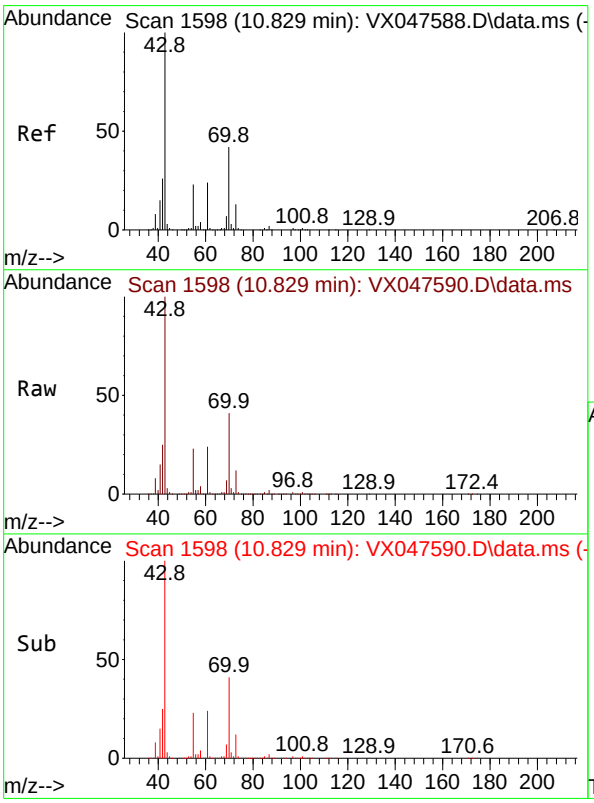
#73
Isopropylbenzene
Concen: 151.477 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1321409

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4

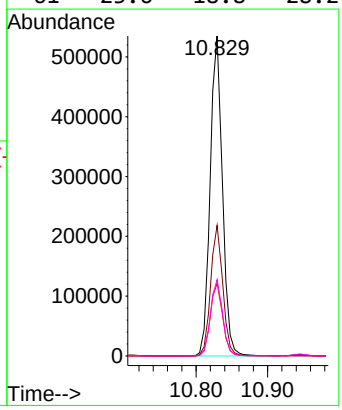


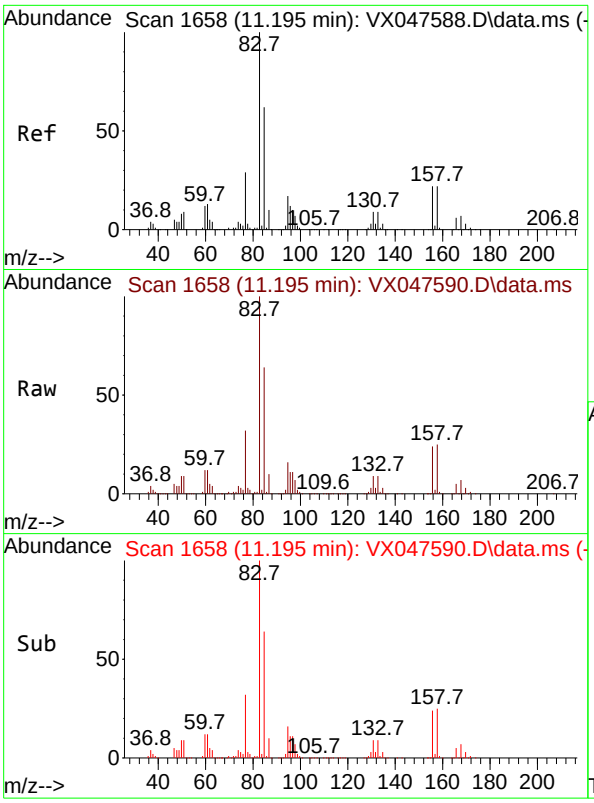


#74
N-amyl acetate
Concen: 160.099 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 636879

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.0	48.0
55	22.9	18.9	28.3
61	23.6	18.8	28.2



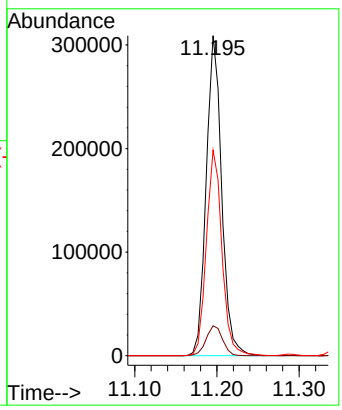


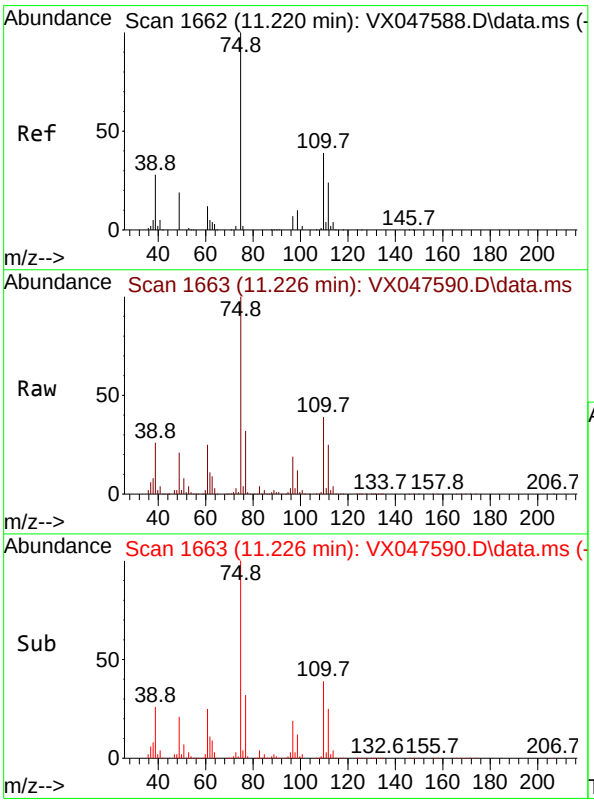
#75
1,1,2,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 403906

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.6	31.6	95.0

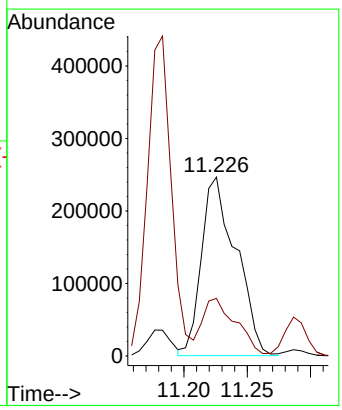


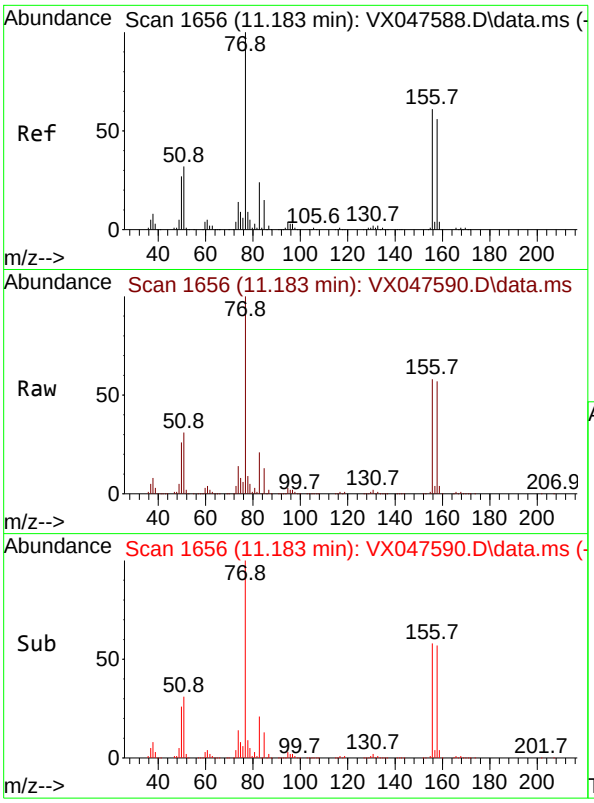


#76
1,2,3-Trichloropropane
Concen: 202.576 ug/l
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 470623

Ion	Ratio	Lower	Upper
75	100		
77	30.8	18.8	56.4



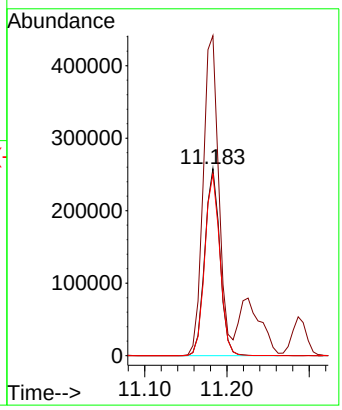


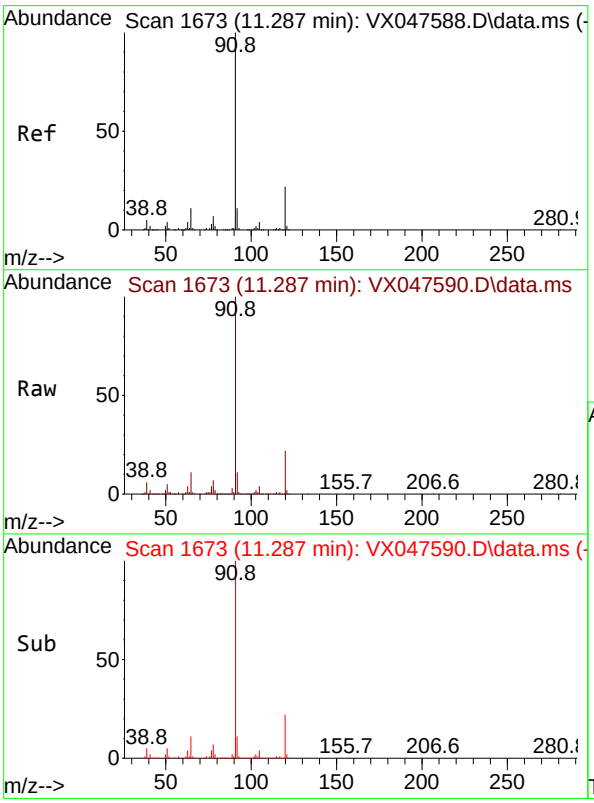
#77
Bromobenzene
Concen: 152.818 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 328336

Ion	Ratio	Lower	Upper
156	100		
77	178.2	89.7	269.1
158	97.5	47.9	143.6

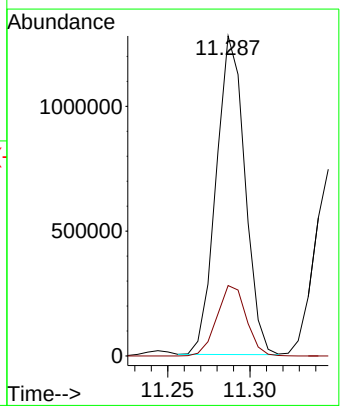


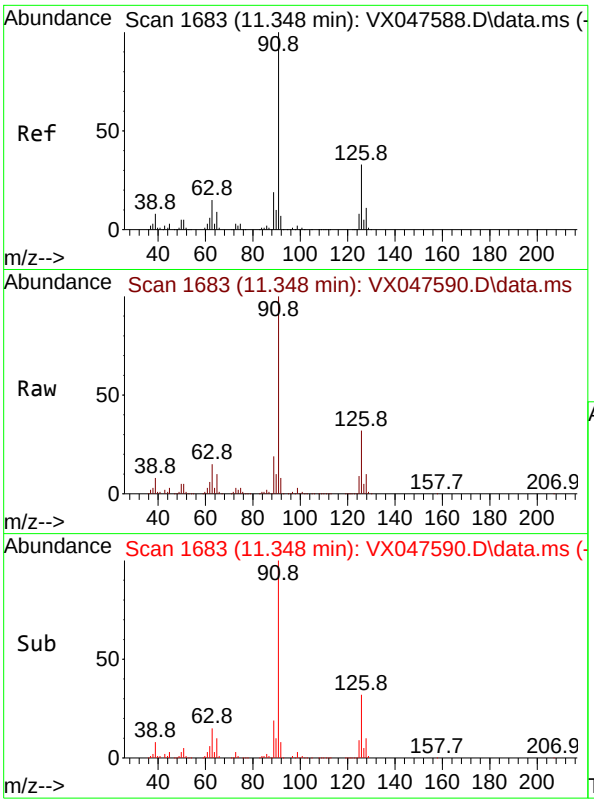


#78
n-propylbenzene
Concen: 150.337 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1550316

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1



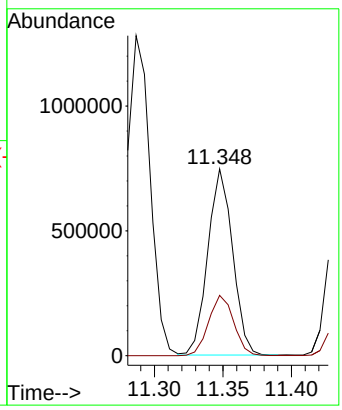


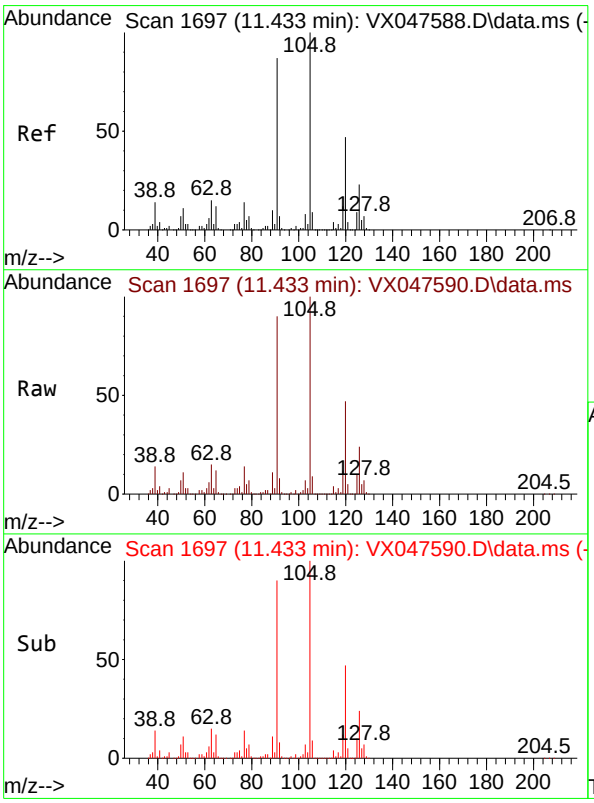
#79
2-Chlorotoluene
Concen: 148.781 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 939707

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

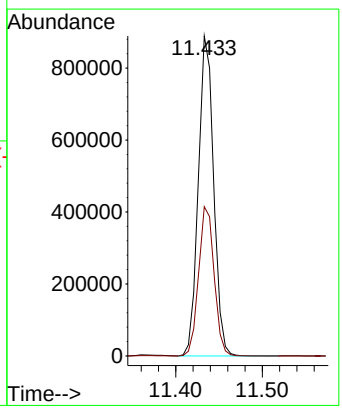


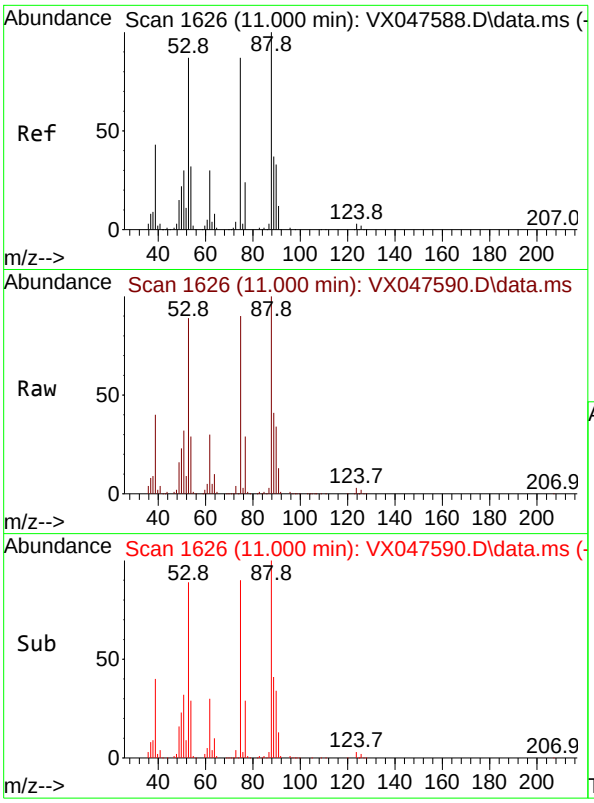


#80
1,3,5-Trimethylbenzene
Concen: 152.306 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1091593

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8



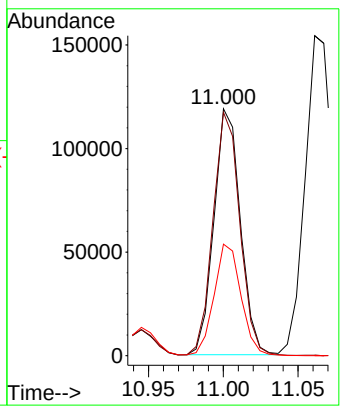


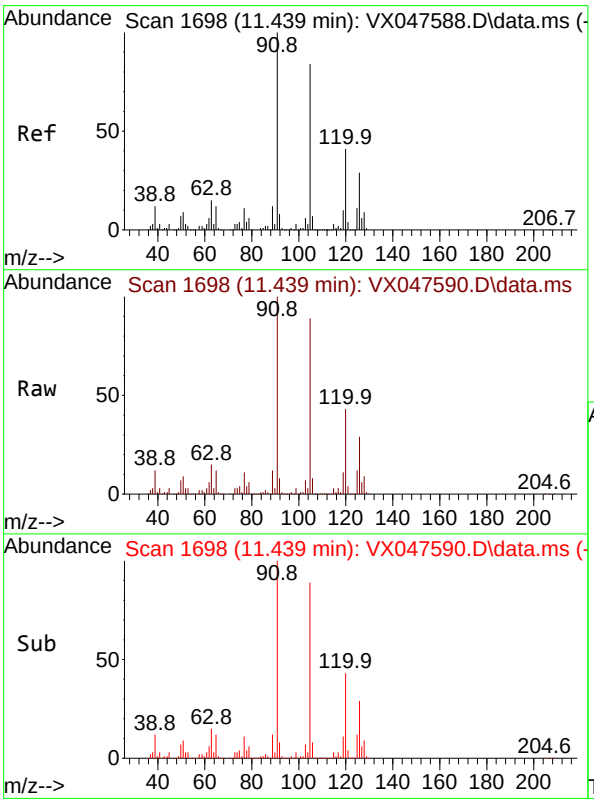
#81
trans-1,4-Dichloro-2-butene
Concen: 160.176 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 145921

Ion	Ratio	Lower	Upper
75	100		
53	100.8	83.4	125.2
89	46.3	36.3	54.5

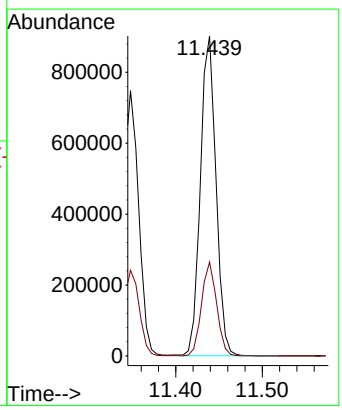


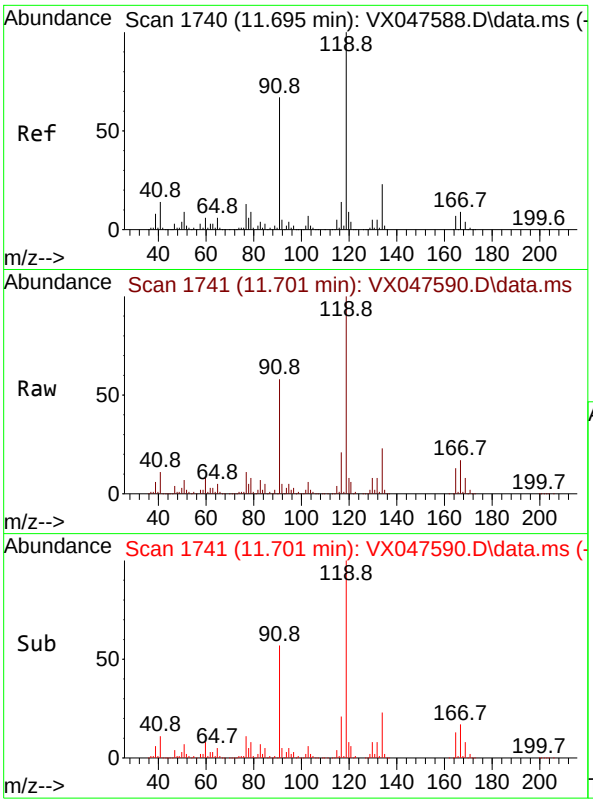


#82
4-Chlorotoluene
Concen: 151.112 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1127233

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6



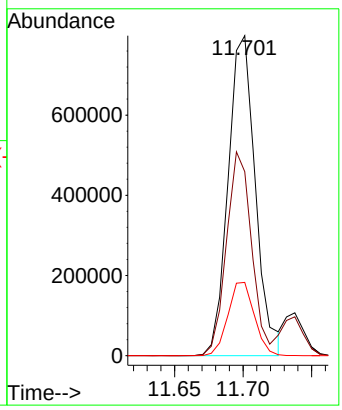


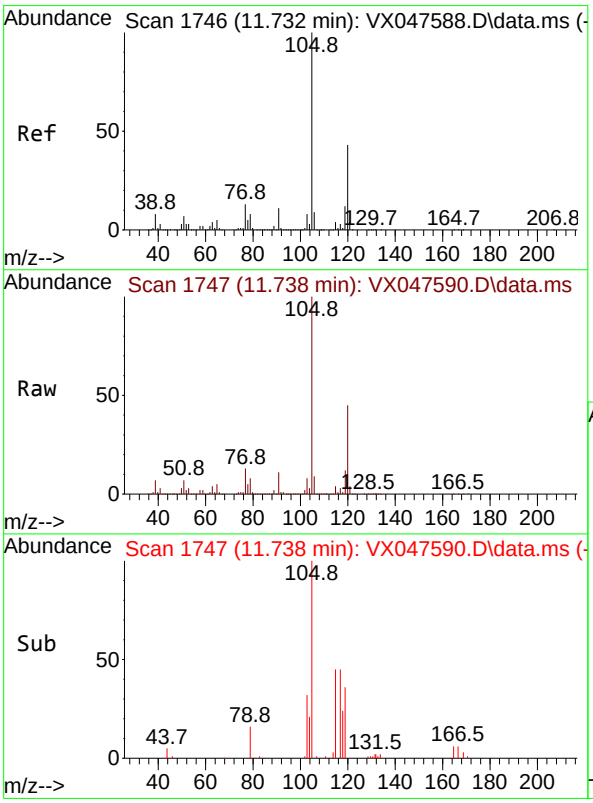
#83
tert-Butylbenzene
Concen: 150.819 ug/l
RT: 11.701 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1106532

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0

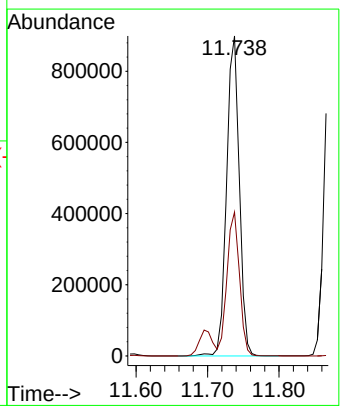


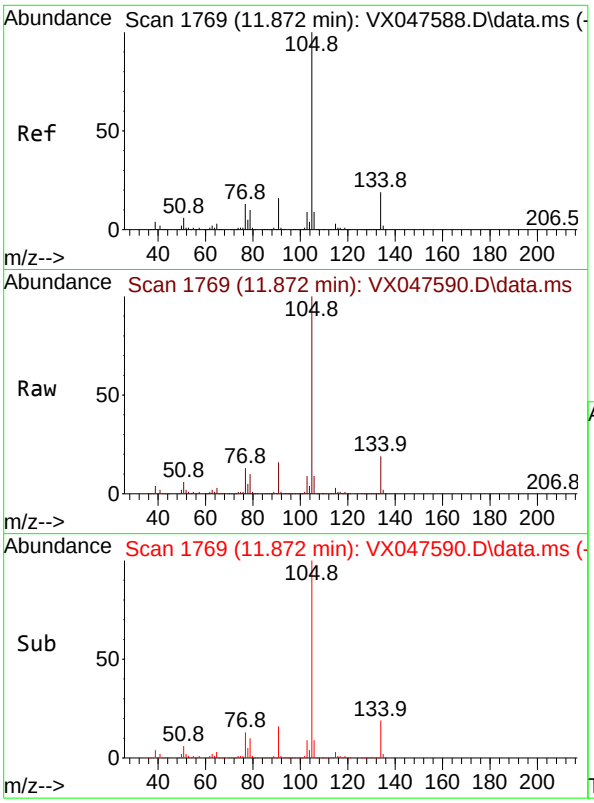


#84
1,2,4-Trimethylbenzene
Concen: 152.336 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1106914

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.1



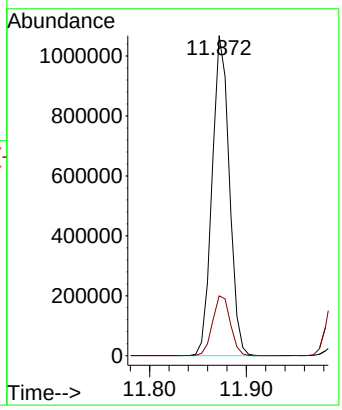


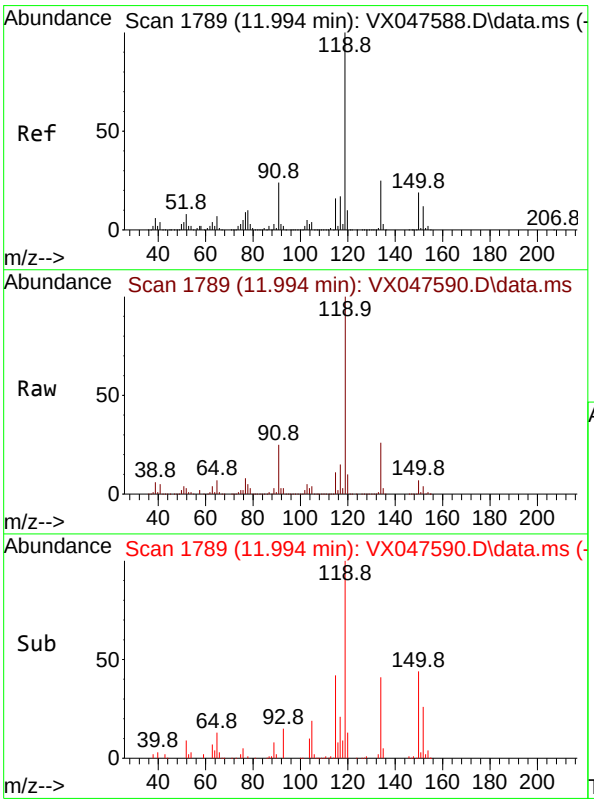
#85
sec-Butylbenzene
Concen: 151.448 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1319819

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

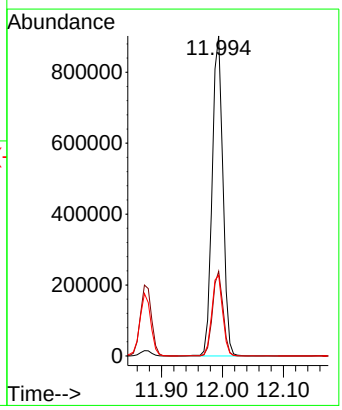


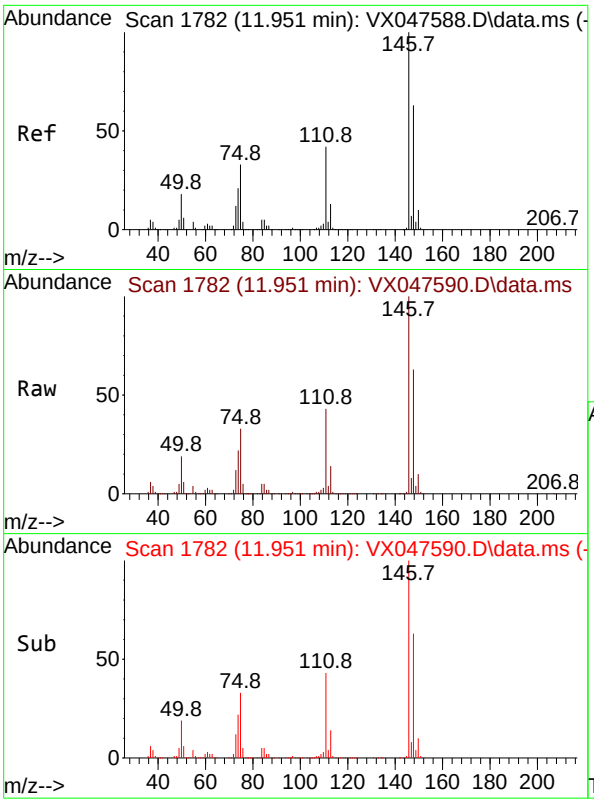


#86
p-Isopropyltoluene
Concen: 149.530 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 1103210

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.3	12.6	37.6



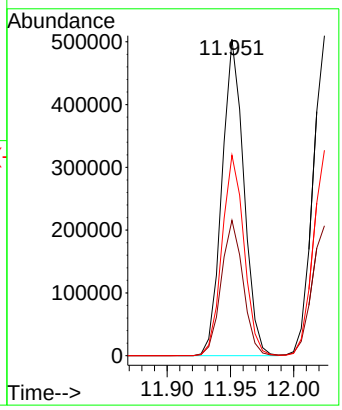


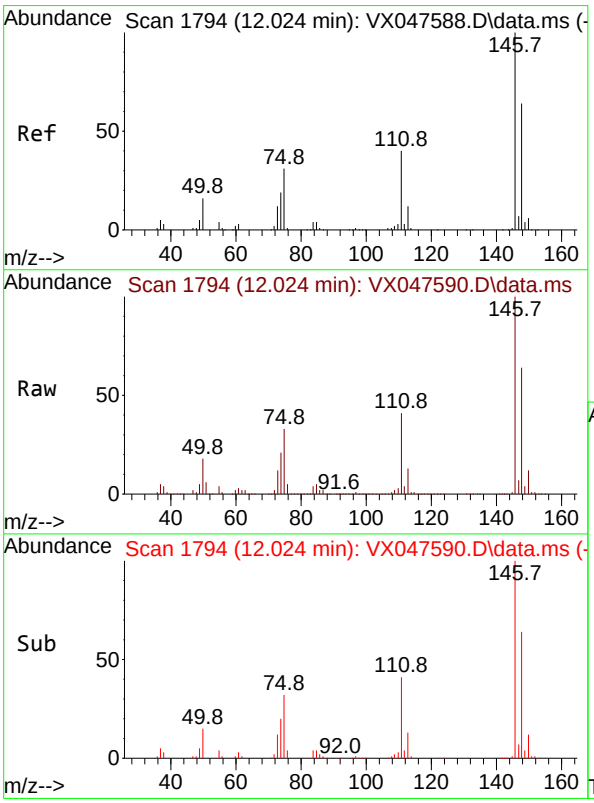
#87
1,3-Dichlorobenzene
Concen: 151.633 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 605123

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.5	64.5
148	63.8	32.0	96.0

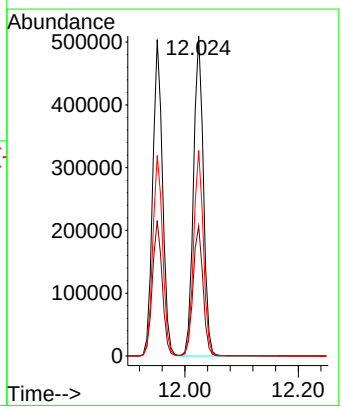


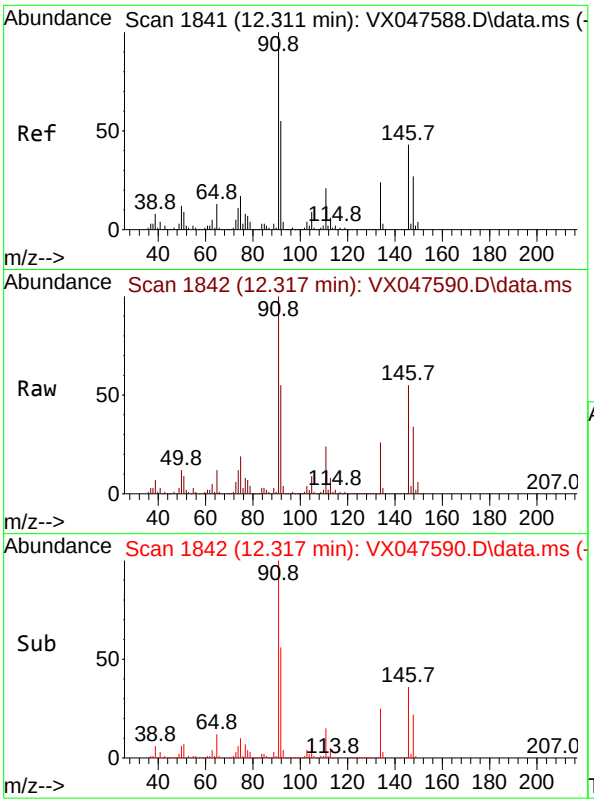


#88
1,4-Dichlorobenzene
Concen: 149.814 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 613617

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	63.2	31.7	95.1



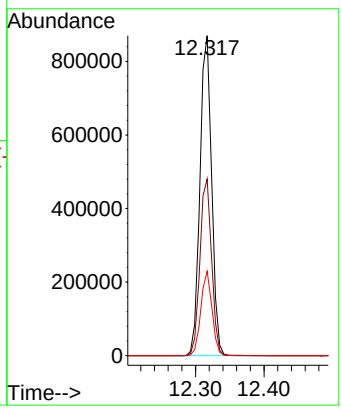


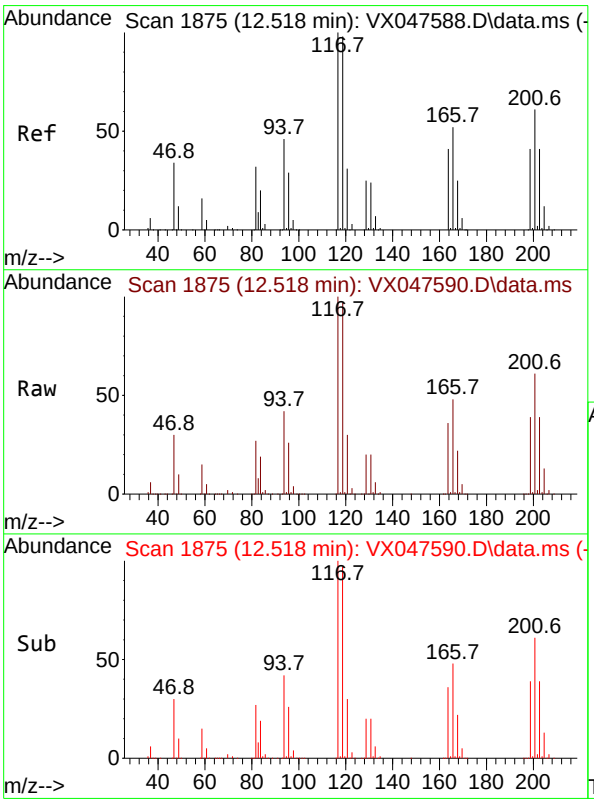
#89
n-Butylbenzene
Concen: 151.222 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1032357

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.2	12.6	37.8

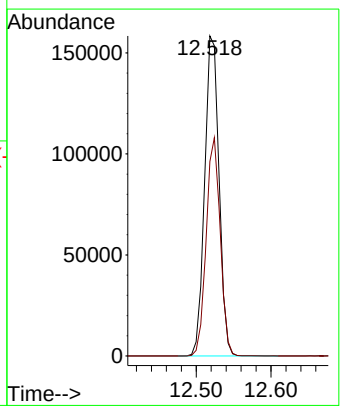


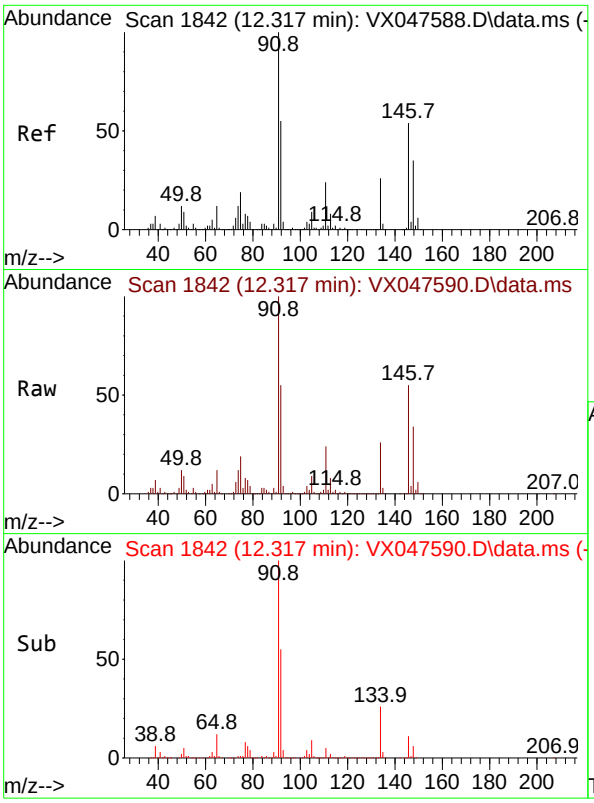


#90
Hexachloroethane
Concen: 163.258 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 211472

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5



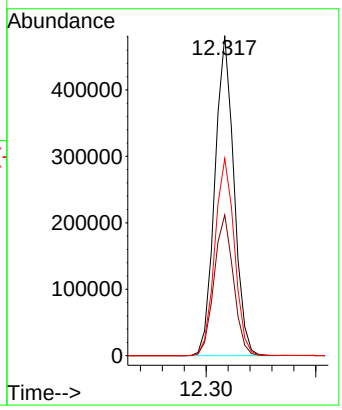


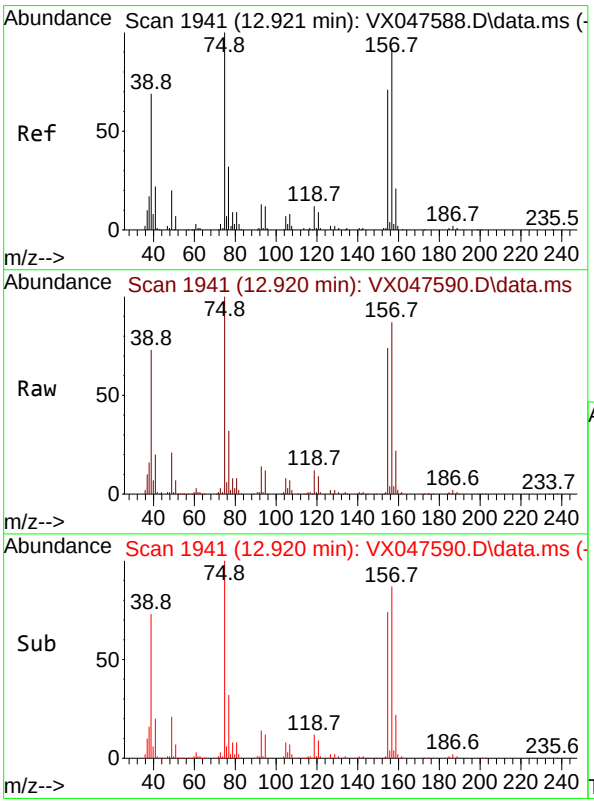
#91
1,2-Dichlorobenzene
Concen: 153.227 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 582565

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.2	66.6
148	63.5	31.8	95.4

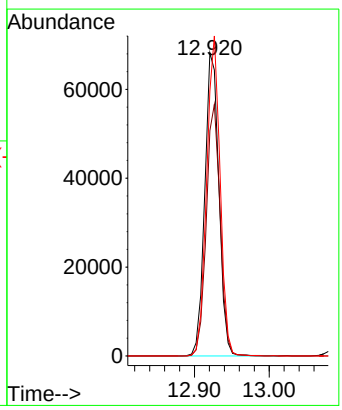


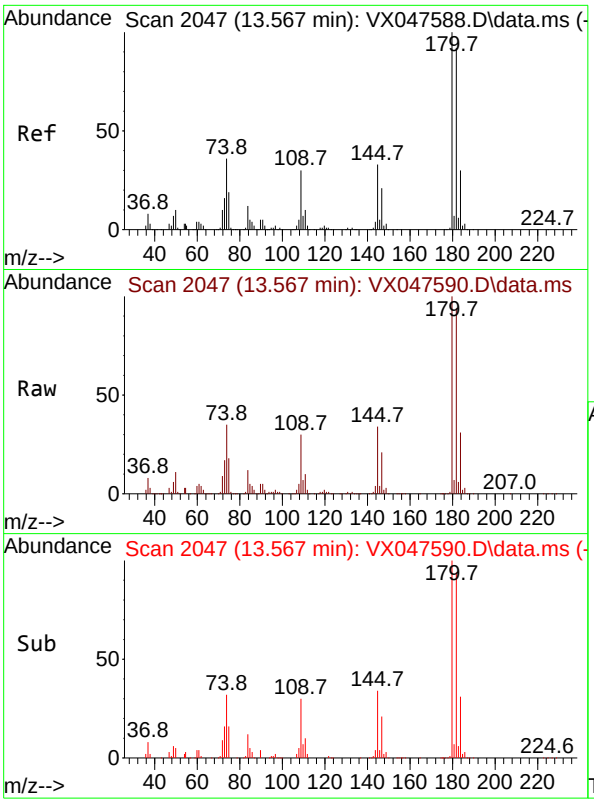


#92
1,2-Dibromo-3-Chloropropane
Concen: 167.332 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 89415

Ion	Ratio	Lower	Upper
75	100		
155	81.3	37.7	113.1
157	100.6	49.8	149.4



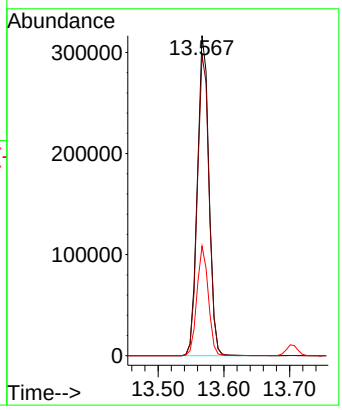


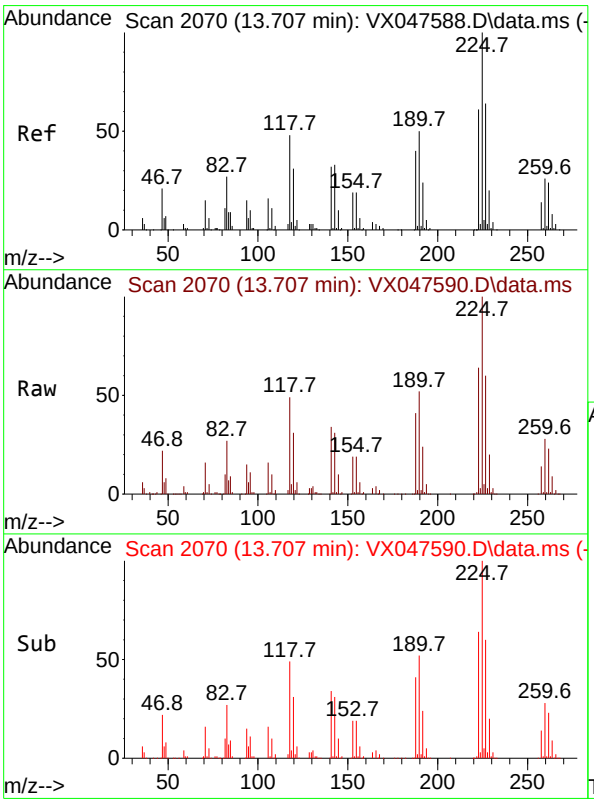
#93
1,2,4-Trichlorobenzene
Concen: 156.884 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 387652

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.5	16.4	49.1

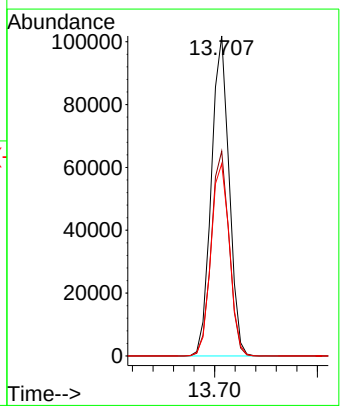


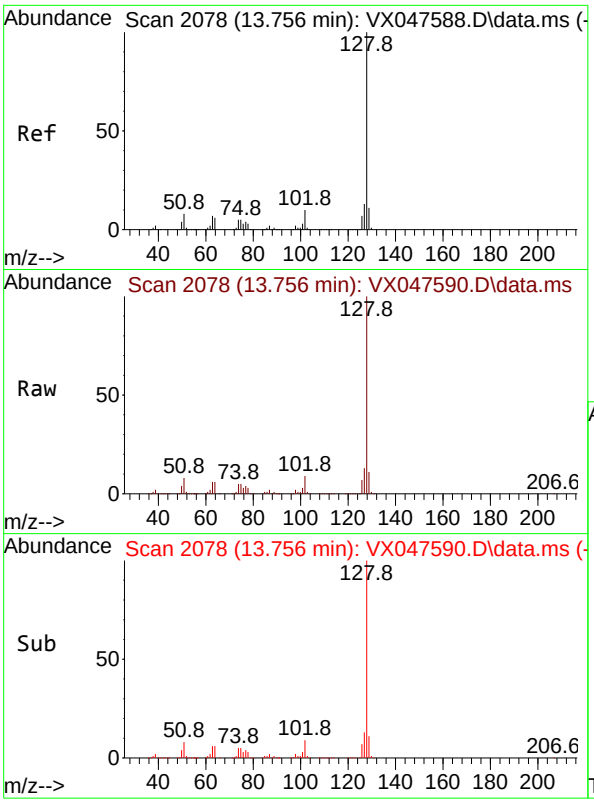


#94
Hexachlorobutadiene
Concen: 145.110 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:225 Resp: 121791

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.7	95.1
227	62.8	32.0	96.0



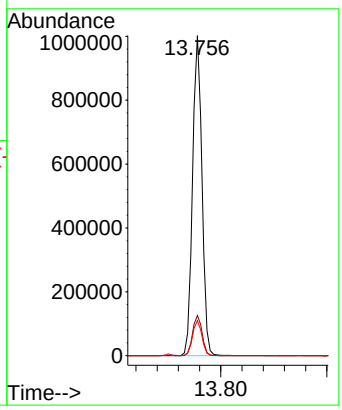


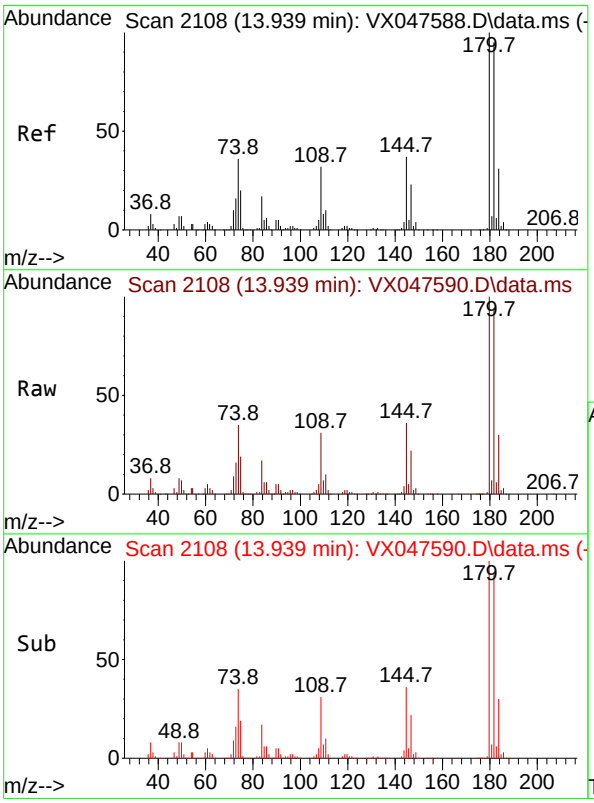
#95
Naphthalene
Concen: 163.388 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1229363

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.8	13.2

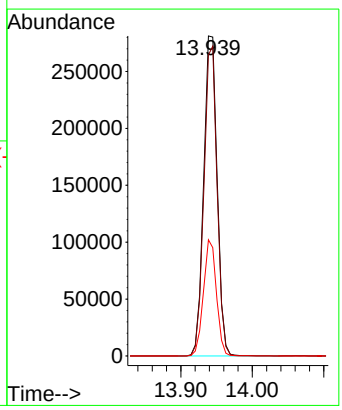




#96
1,2,3-Trichlorobenzene
Concen: 160.704 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 369382

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.8
145	34.9	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.100%		
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.120%		
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.820%		
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.040%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l		98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l		100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l		100
44) Trichloroethene	7.104	130	114708	48.037	ug/l		98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l		98
46) Dibromomethane	7.562	93	88297	47.976	ug/l		98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l		96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l		99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l		100
52) Toluene	8.702	92	292879	48.130	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l		97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l		98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l		99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l		99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l		99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l		99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l		99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l		98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l		98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l		99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l		99
69) o-Xylene	10.622	106	204323	50.159	ug/l		99
70) Styrene	10.640	104	353567	49.536	ug/l		99
71) Bromoform	10.780	173	86524	51.207	ug/l	#	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l		100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	184000	65.262	ug/l		89
77) Bromobenzene	11.183	156	125610	48.173	ug/l		98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l		99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l		99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l		100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l		99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l		100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l		99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l		100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l		100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l		99
95) Naphthalene	13.756	128	464206	50.836	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

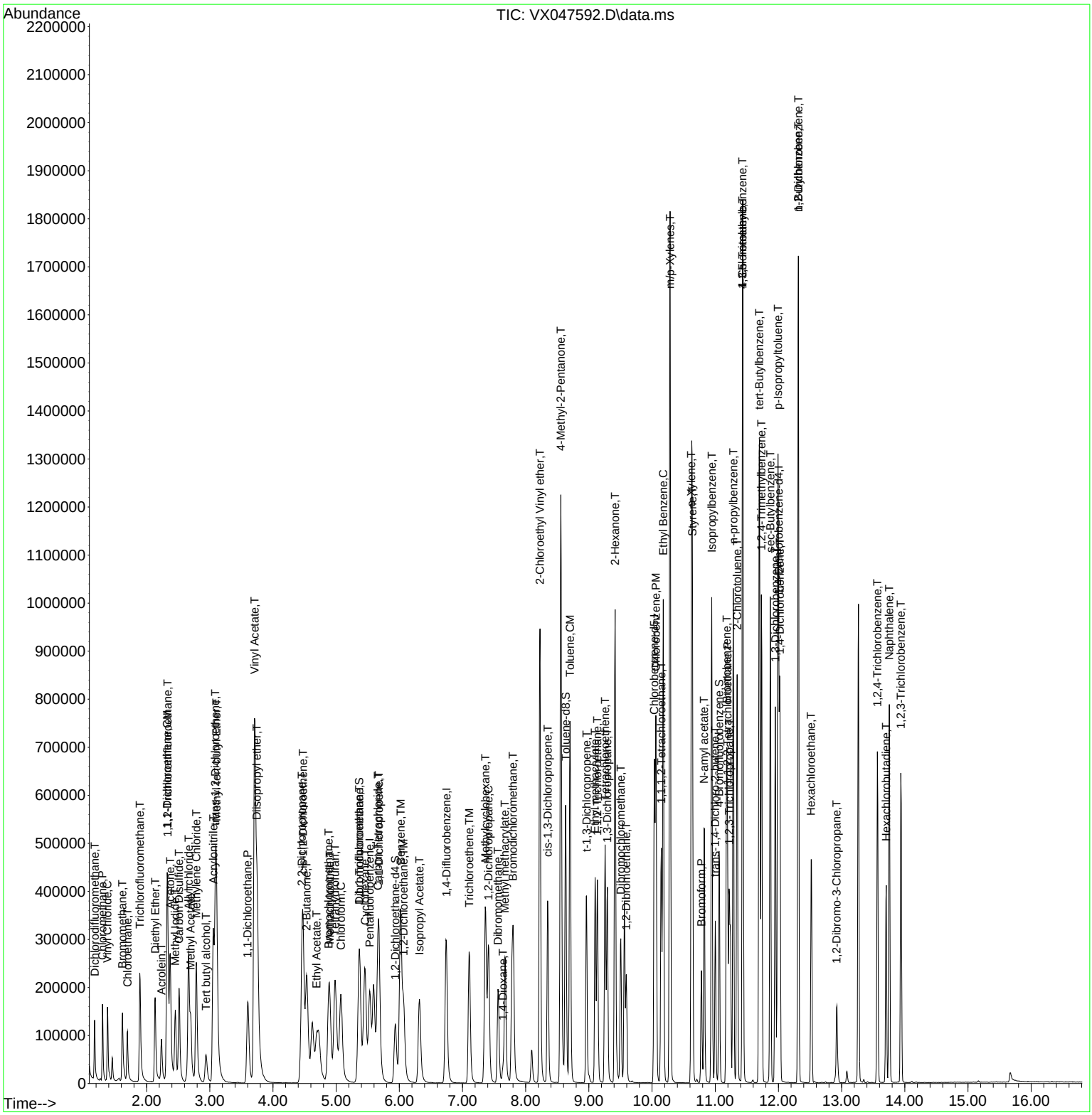
(#) = qualifier out of range (m) = manual integration (+) = signals summed

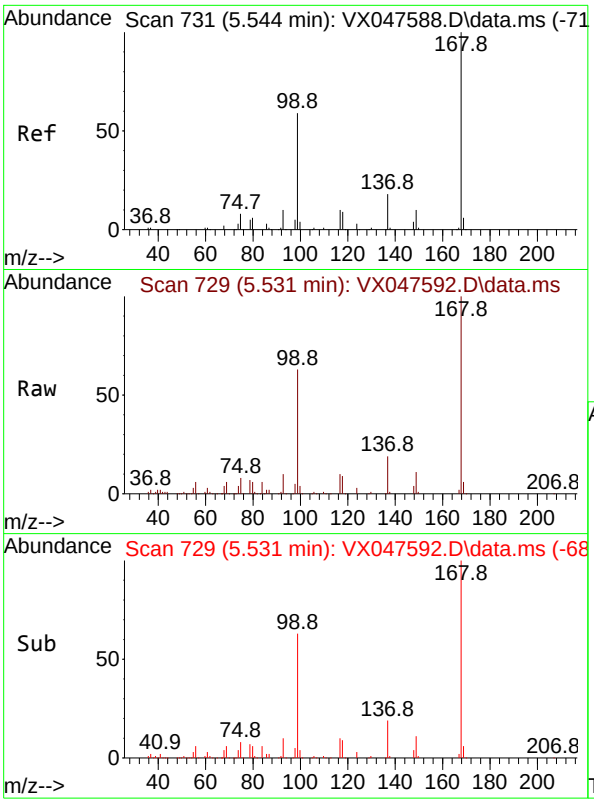
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



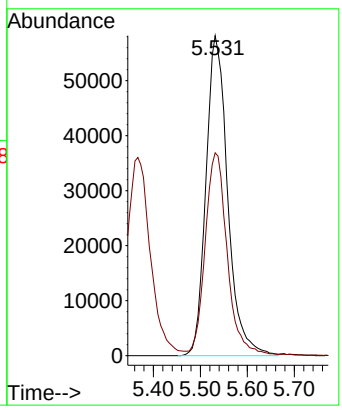


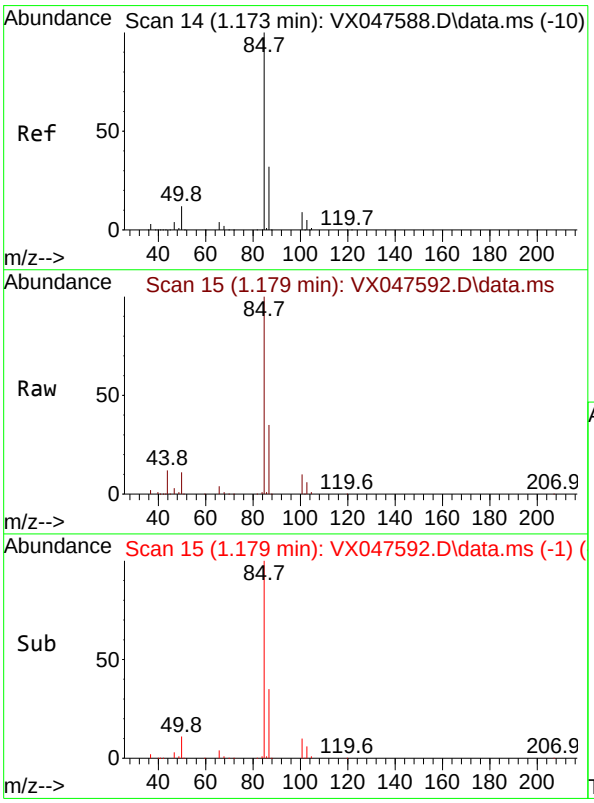
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:168 Resp: 186484

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2

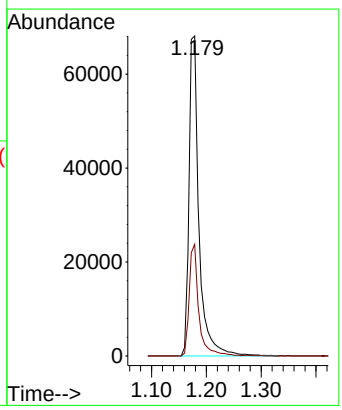


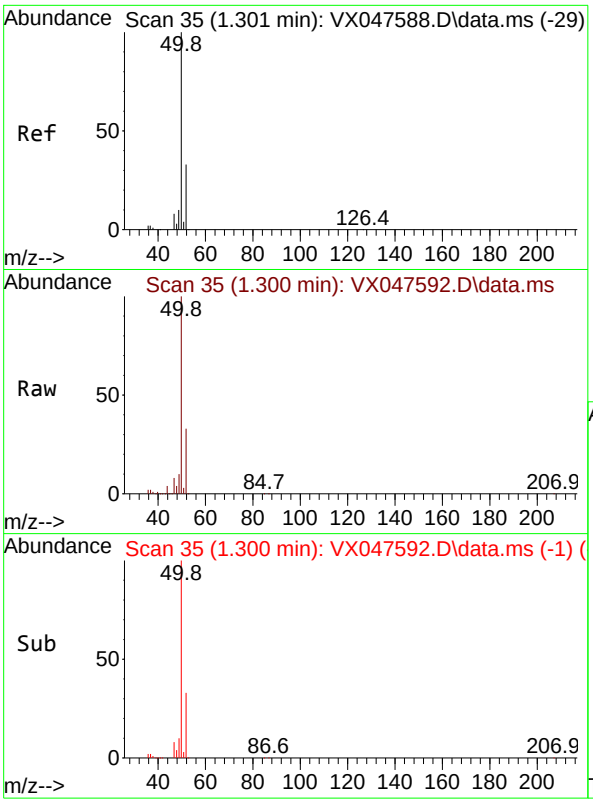


#2
Dichlorodifluoromethane
Concen: 44.592 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 85 Resp: 86110

Ion	Ratio	Lower	Upper
85	100		
87	34.9	15.8	47.3



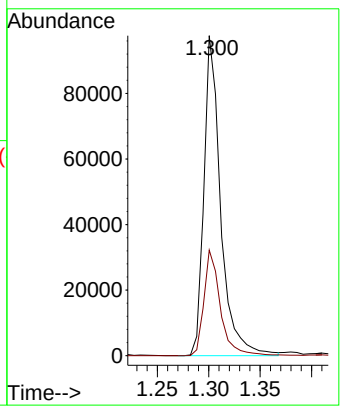


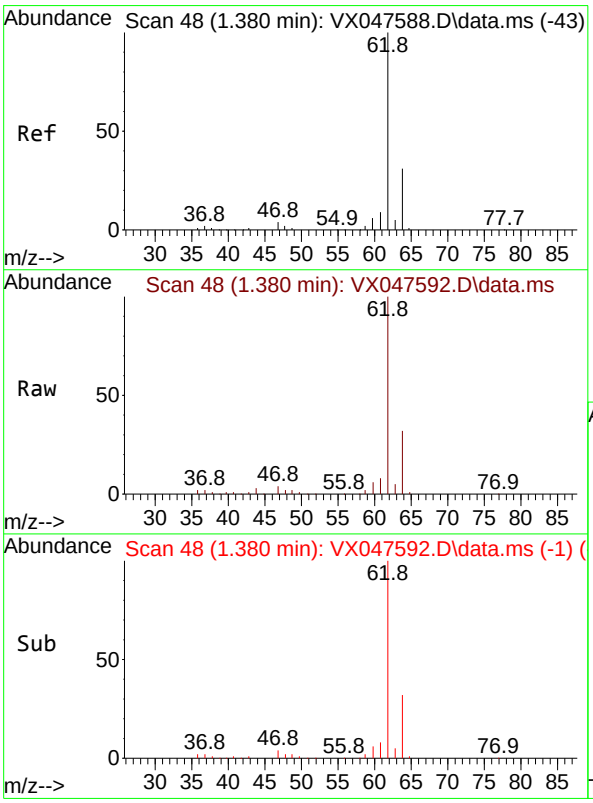
#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 50 Resp: 110935

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.1	39.1

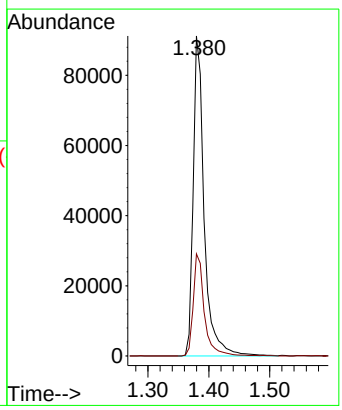


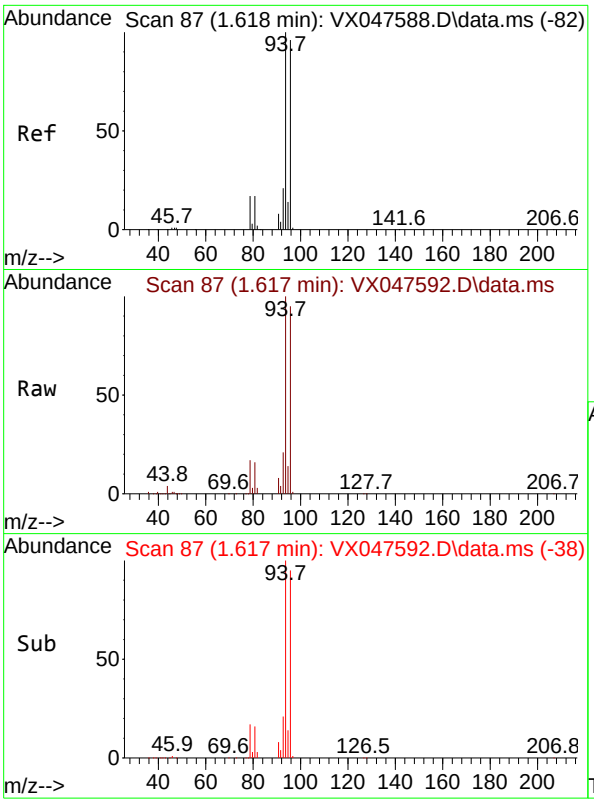


#4
Vinyl Chloride
Concen: 45.783 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 113742

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3



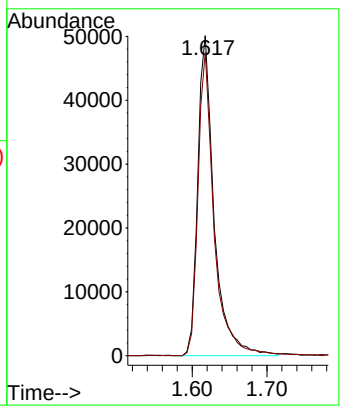


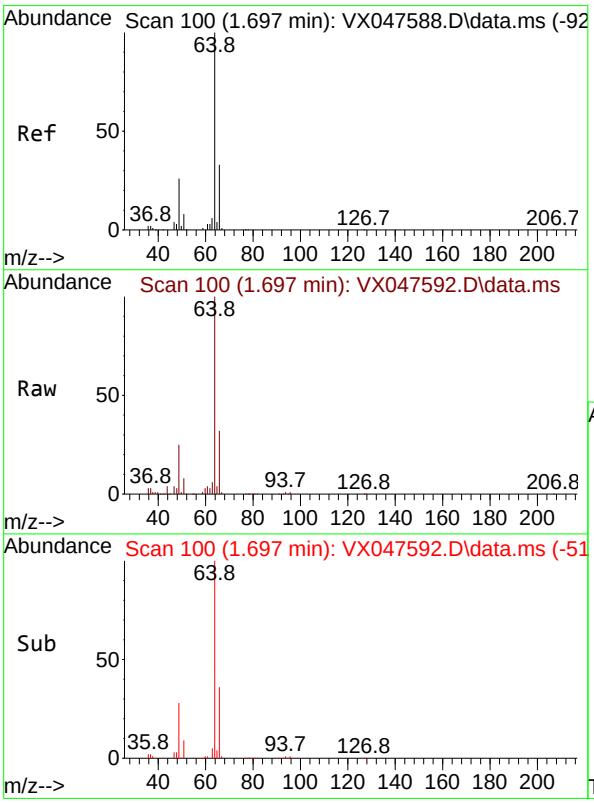
#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 94 Resp: 76388

Ion	Ratio	Lower	Upper
94	100		
96	94.7	76.6	115.0

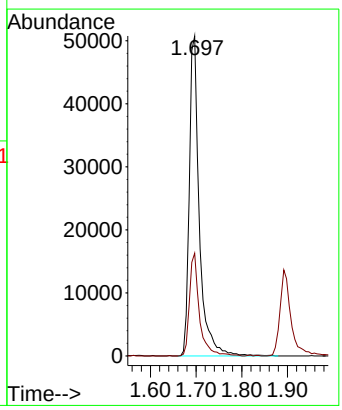


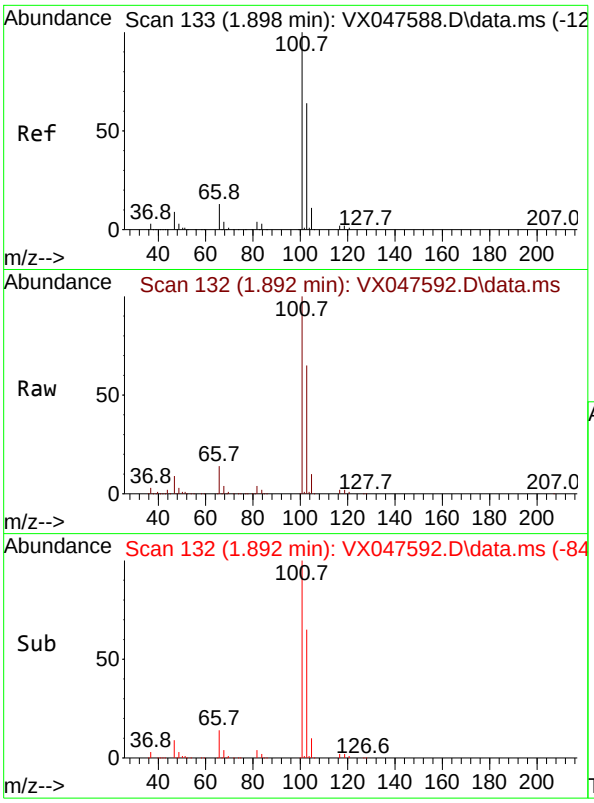


#6
Chloroethane
Concen: 46.575 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 64 Resp: 77337

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1



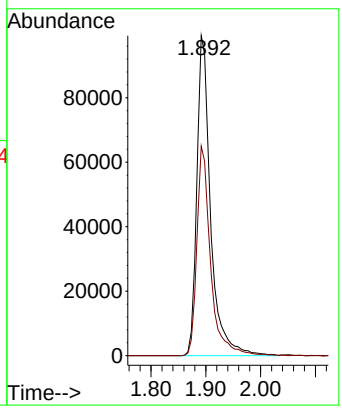


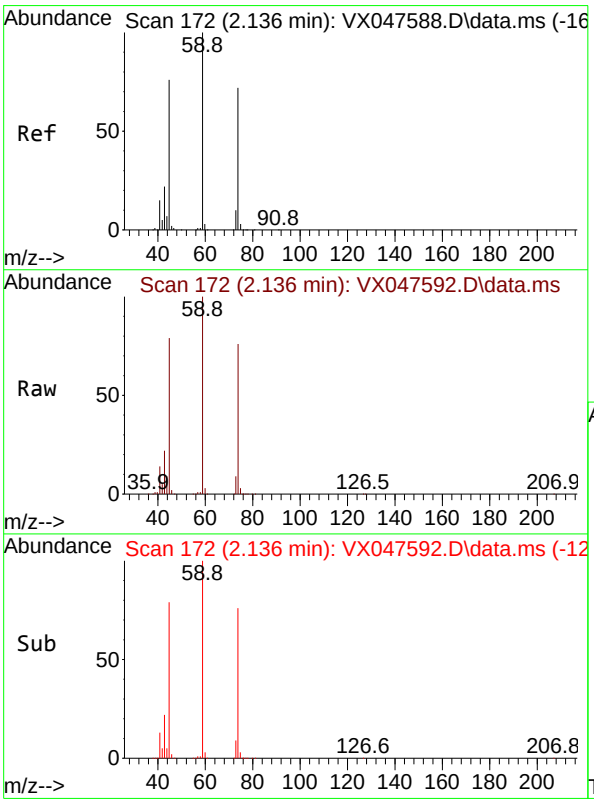
#7
Trichlorofluoromethane
Concen: 47.074 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:101 Resp: 173647

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2

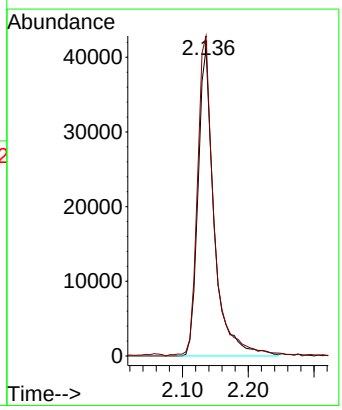


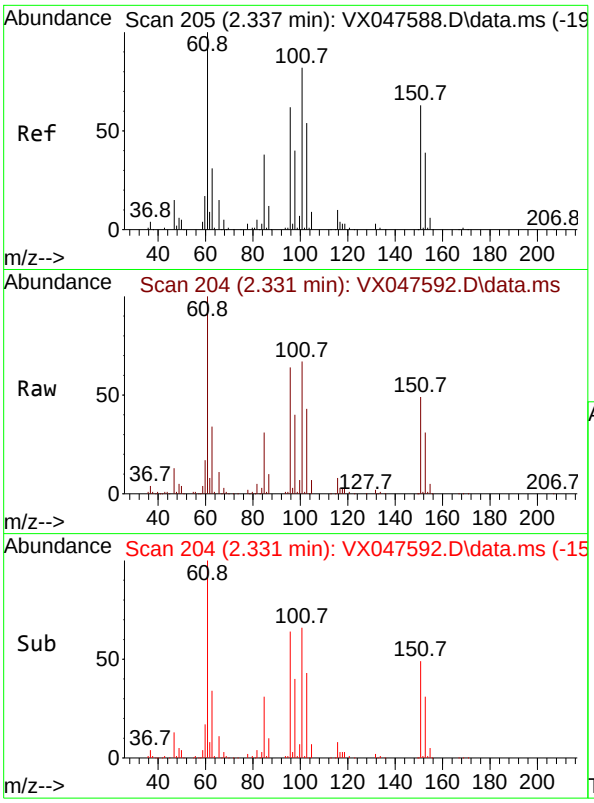


#8
Diethyl Ether
Concen: 46.693 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 74 Resp: 70459

Ion	Ratio	Lower	Upper
74	100		
45	107.1	52.3	156.8



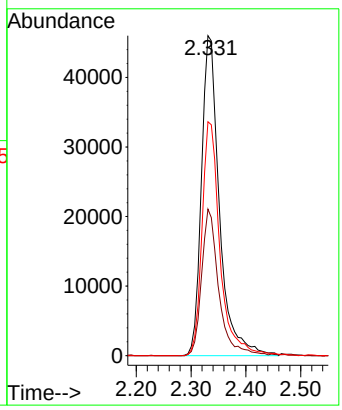


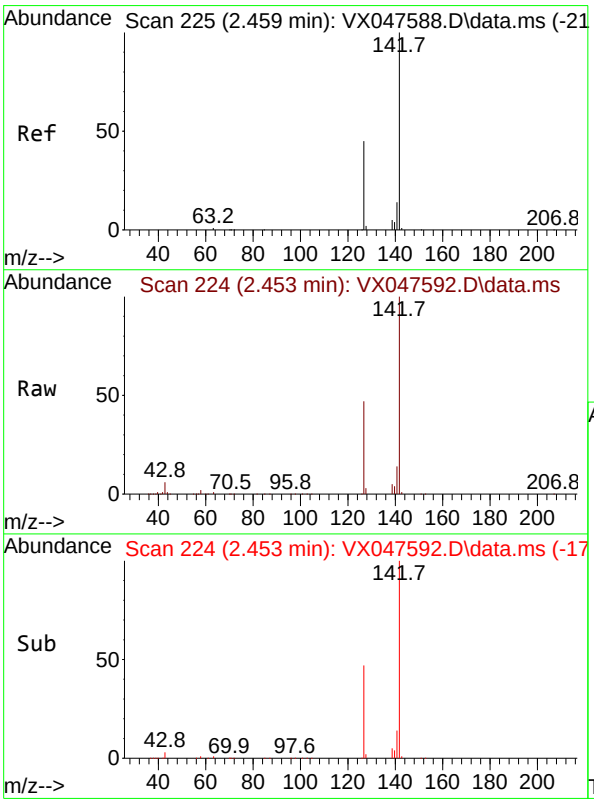
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.524 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:101 Resp: 104663

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.3	59.4	89.0

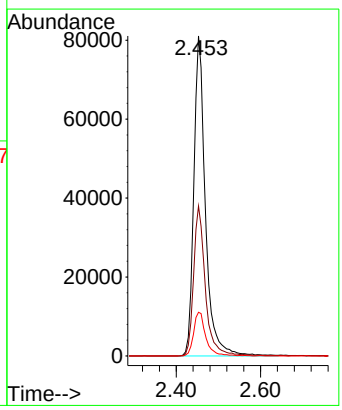


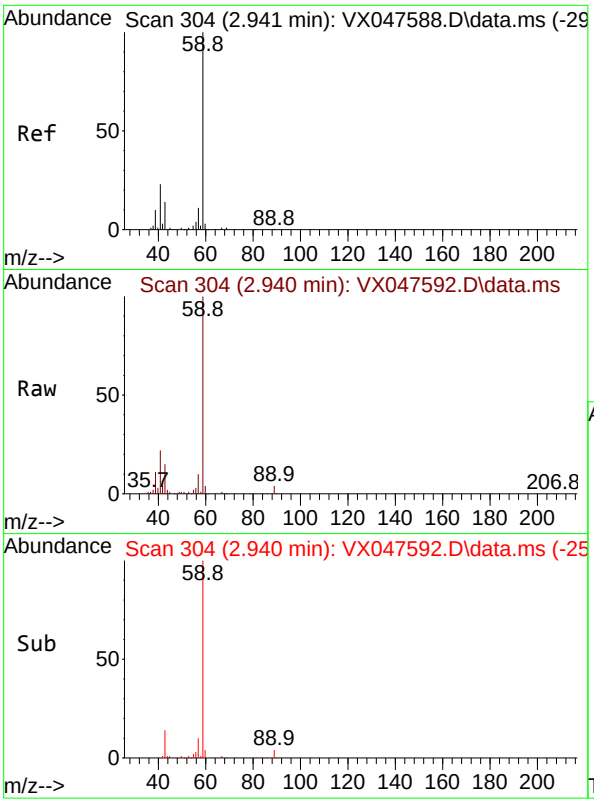


#10
Methyl Iodide
Concen: 46.210 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:142 Resp: 155450

Ion	Ratio	Lower	Upper
142	100		
127	47.6	37.2	55.8
141	14.4	11.4	17.0



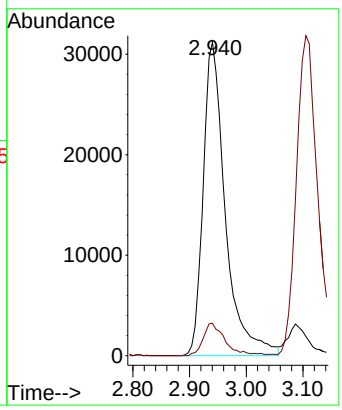


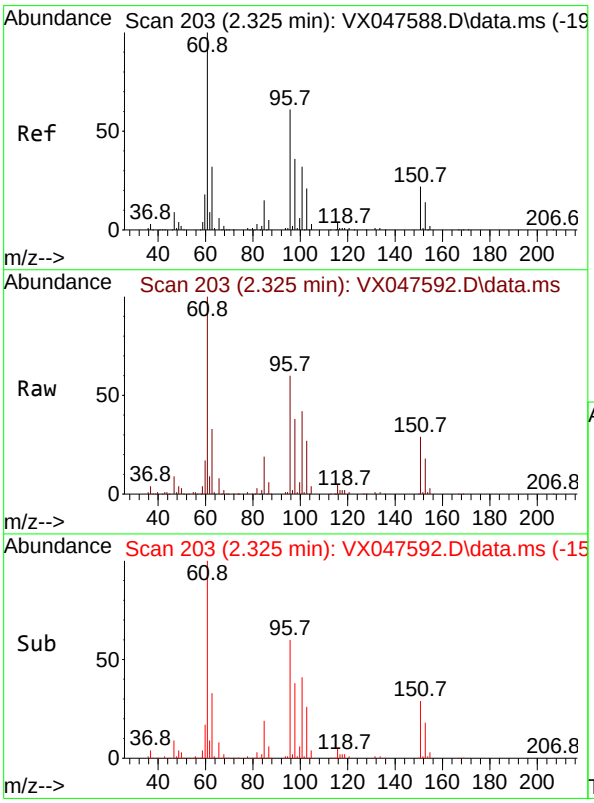
#11
Tert butyl alcohol
Concen: 256.271 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 59 Resp: 84722

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

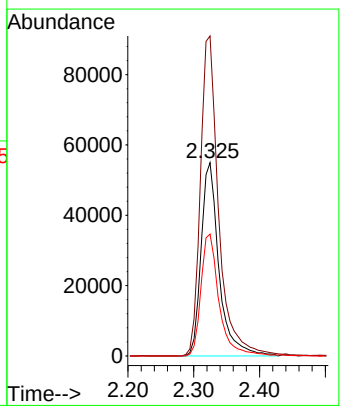


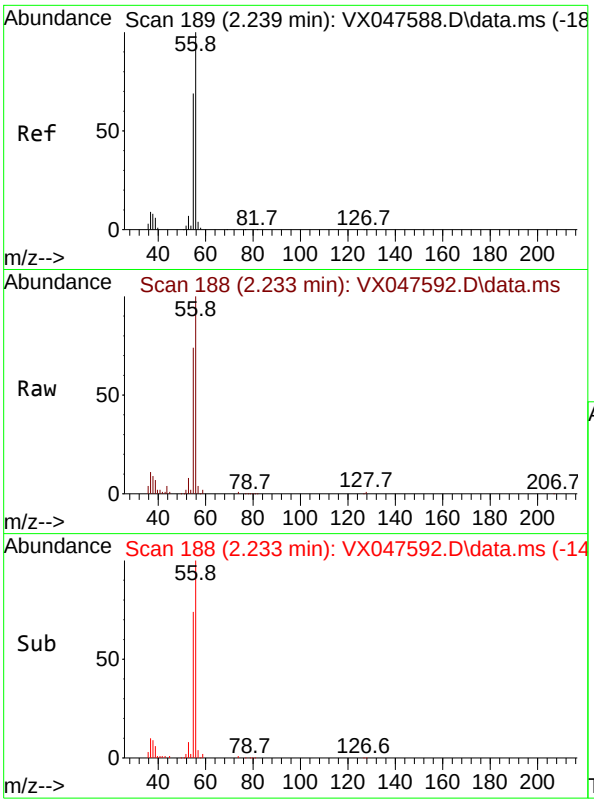


#12
1,1-Dichloroethene
Concen: 47.076 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 104302

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	63.1	47.7	71.5



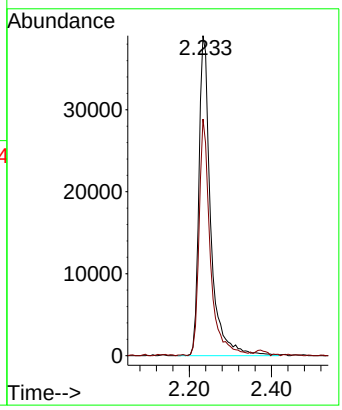


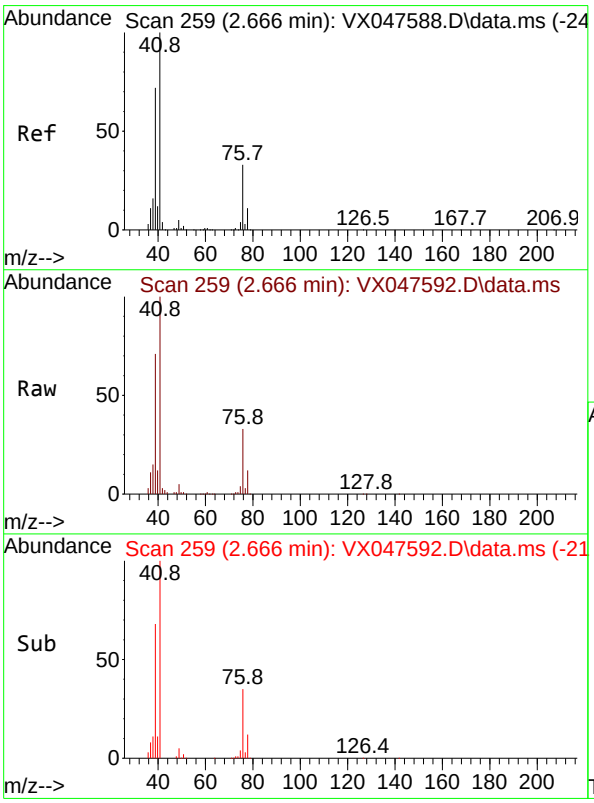
#13
Acrolein
Concen: 254.867 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 56 Resp: 77645

Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.2	85.8

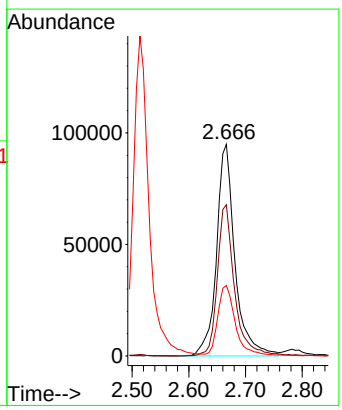


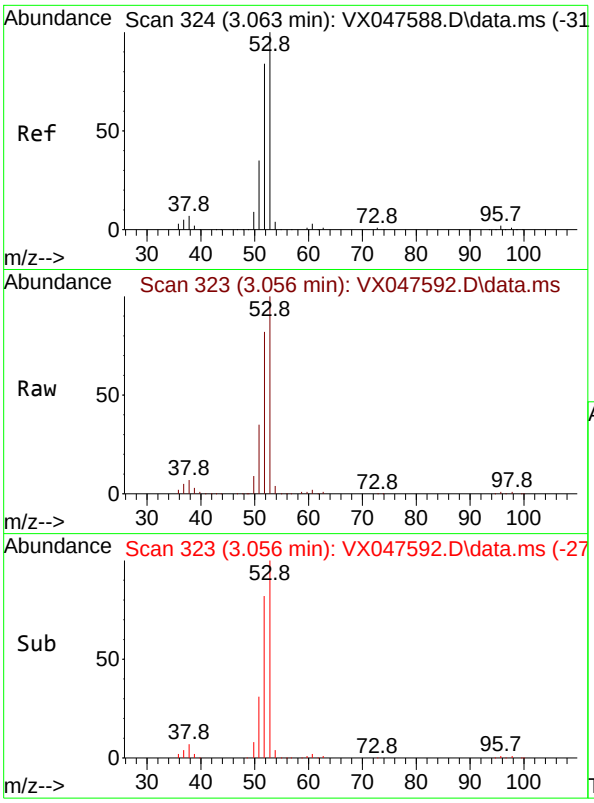


#14
Allyl chloride
Concen: 46.742 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 213704

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.7	82.1
76	31.7	25.7	38.5



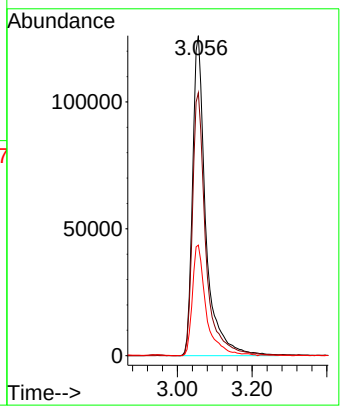


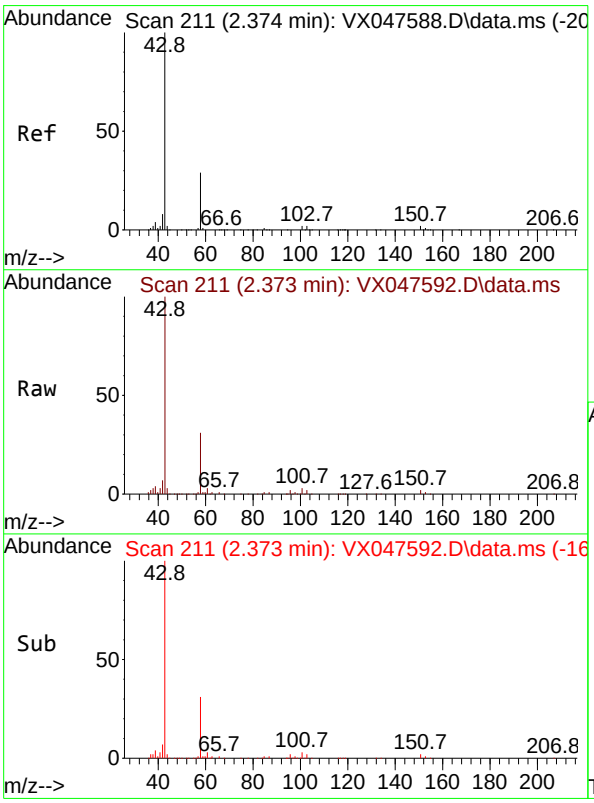
#15
Acrylonitrile
Concen: 253.567 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 53 Resp: 310505

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.2	29.5	44.3

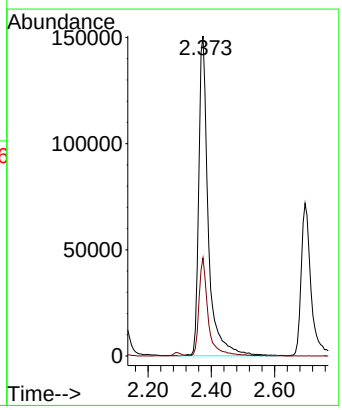


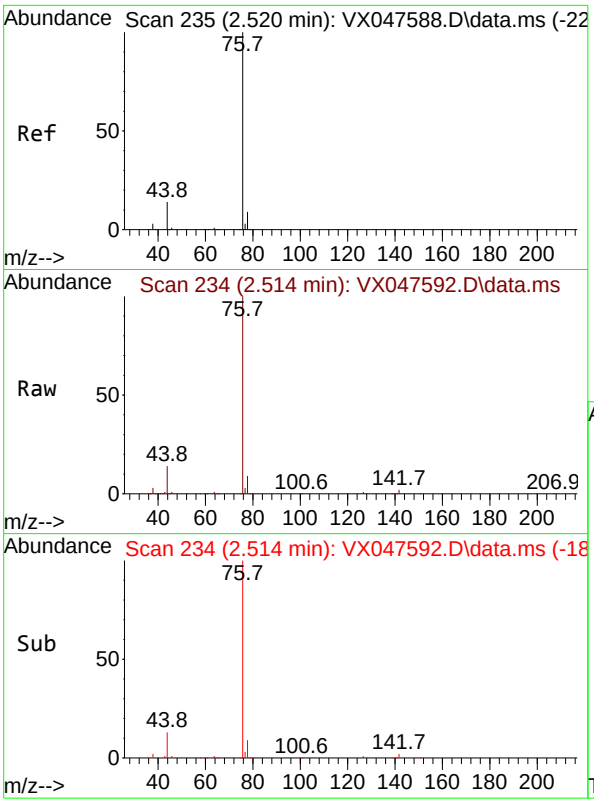


#16
Acetone
Concen: 245.006 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 316217

Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.4	35.0



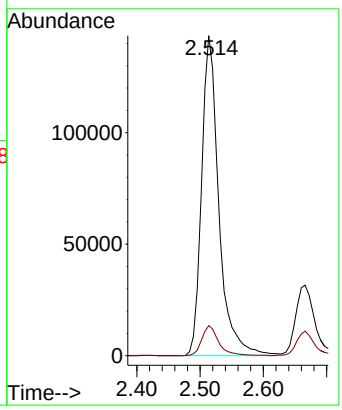


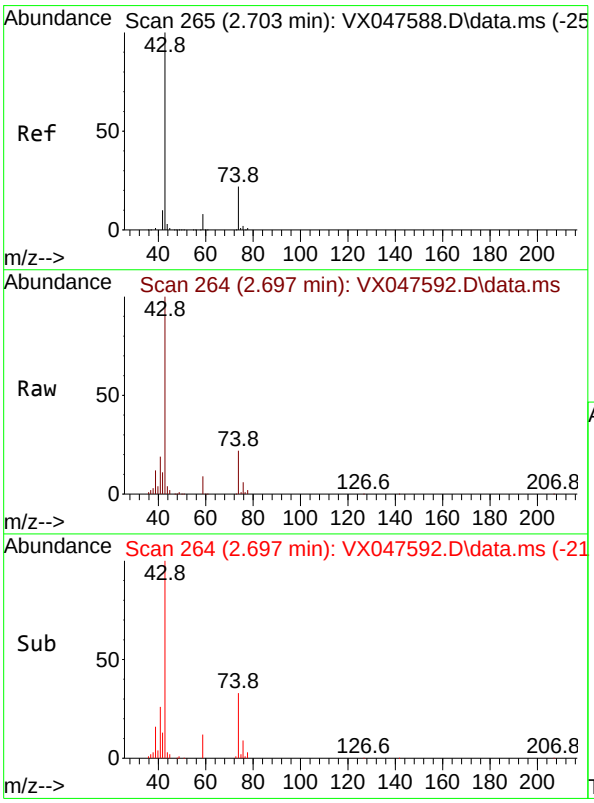
#17
Carbon Disulfide
Concen: 44.966 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 76 Resp: 272741

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.8	10.2

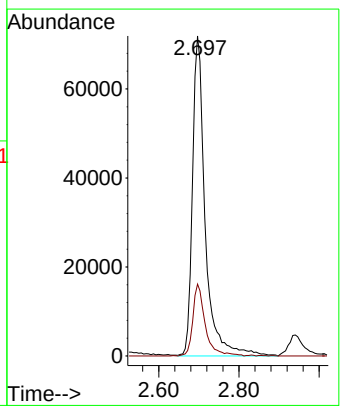


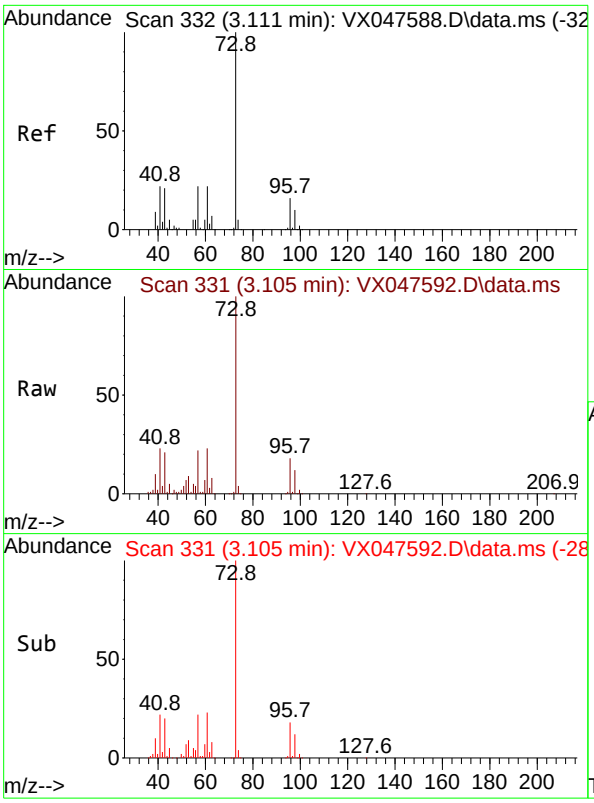


#18
Methyl Acetate
Concen: 55.175 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 158480

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



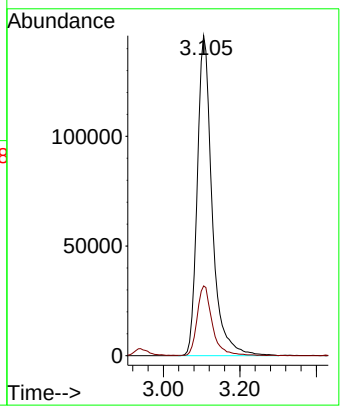


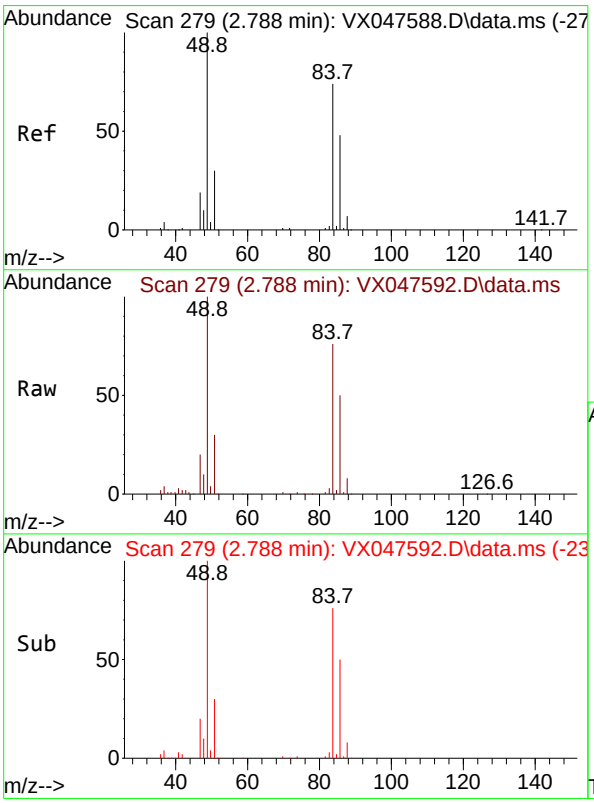
#19
Methyl tert-butyl Ether
Concen: 48.538 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 73 Resp: 392574

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2

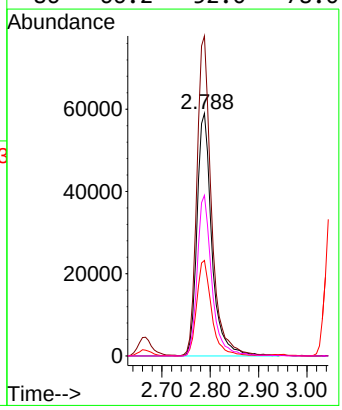


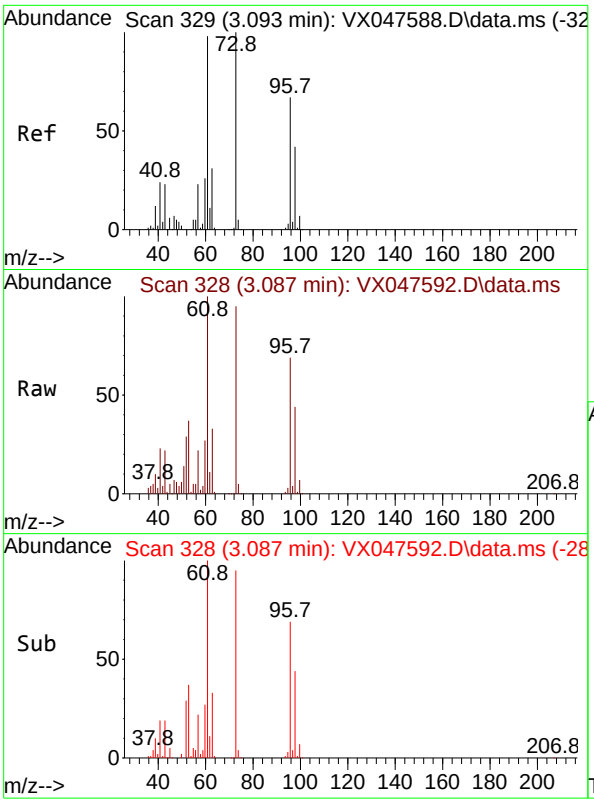


#20
Methylene Chloride
Concen: 46.000 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 84 Resp: 125669

Ion	Ratio	Lower	Upper
84	100		
49	131.8	108.6	162.8
51	39.4	32.6	48.8
86	66.2	52.0	78.0



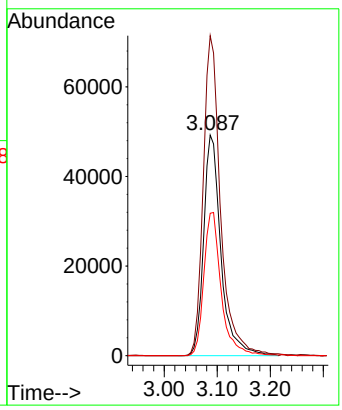


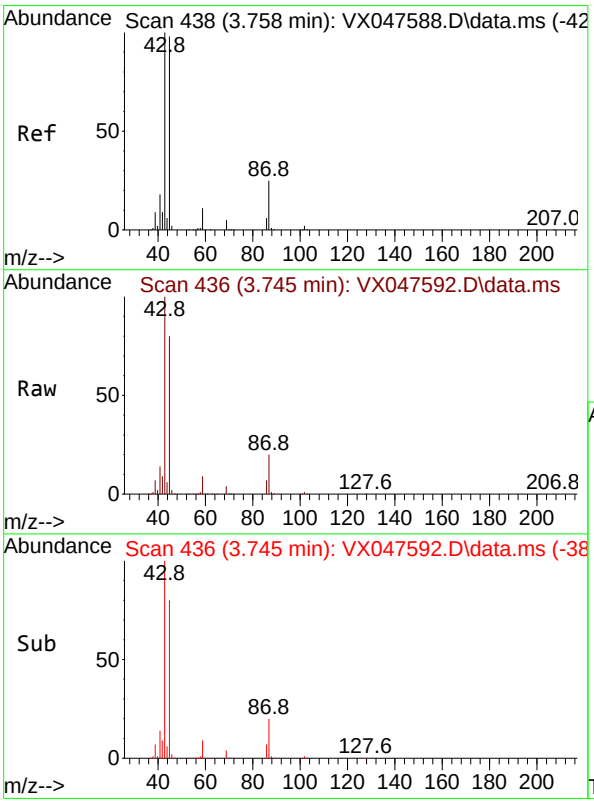
#21
trans-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 96 Resp: 111418

Ion	Ratio	Lower	Upper
96	100		
61	145.1	116.2	174.2
98	64.5	49.3	73.9

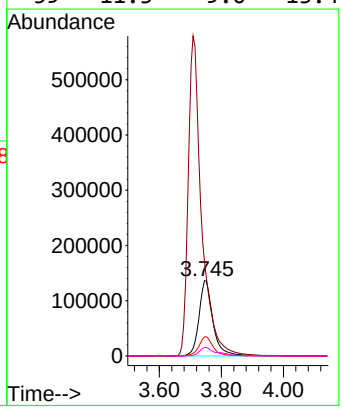


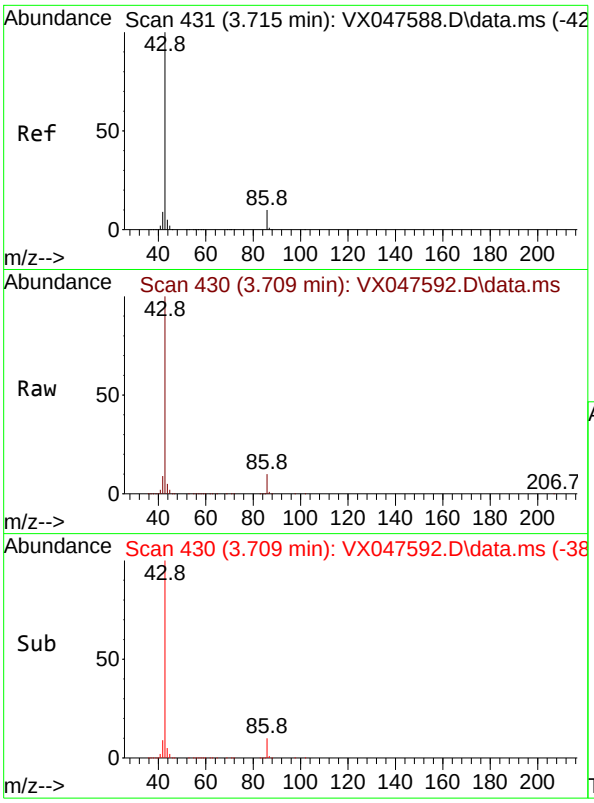


#22
Diisopropyl ether
Concen: 48.174 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 45 Resp: 426854

Ion	Ratio	Lower	Upper
45	100		
43	124.9	81.0	121.4#
87	25.2	20.3	30.5
59	11.3	9.0	13.4



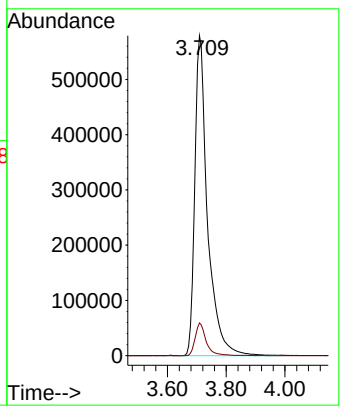


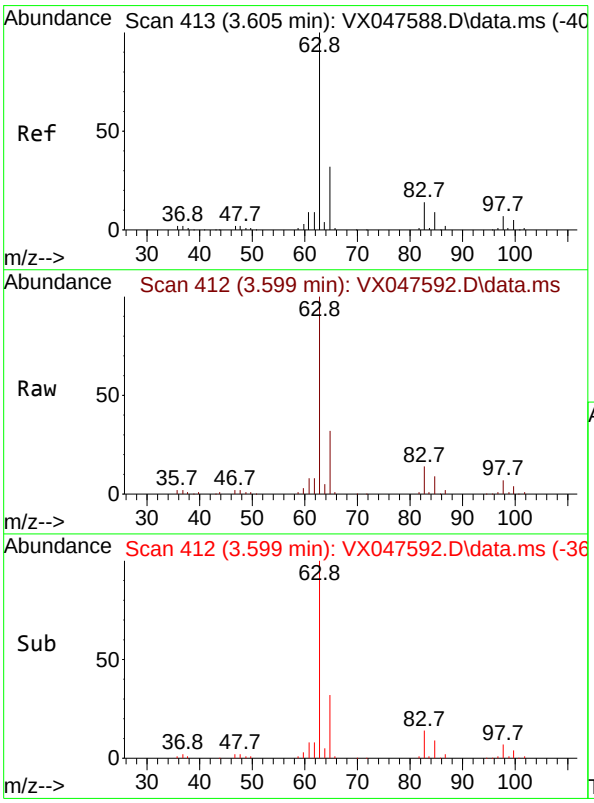
#23
Vinyl Acetate
Concen: 245.539 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 1741267

Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.8	11.8

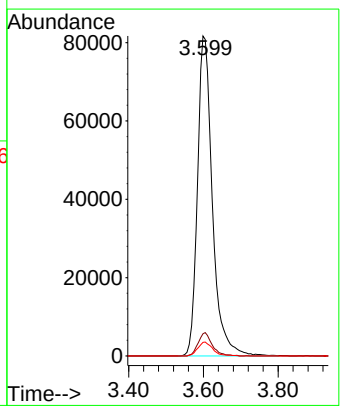


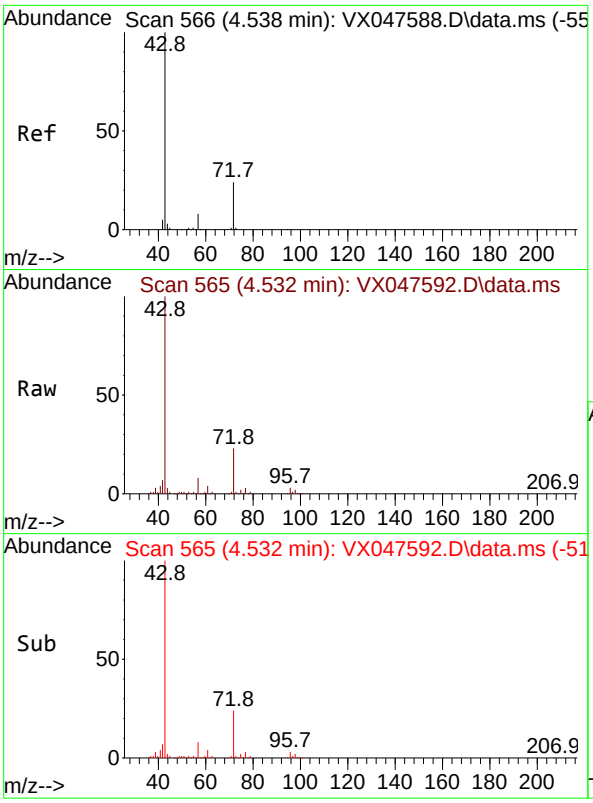


#24
1,1-Dichloroethane
Concen: 48.041 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 226249

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.2
100	4.4	2.3	6.9



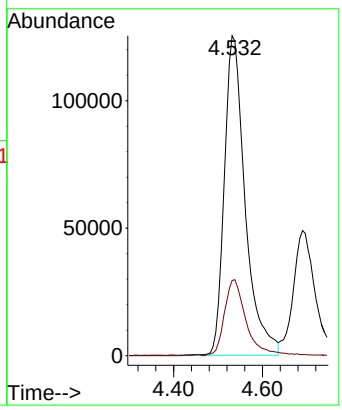


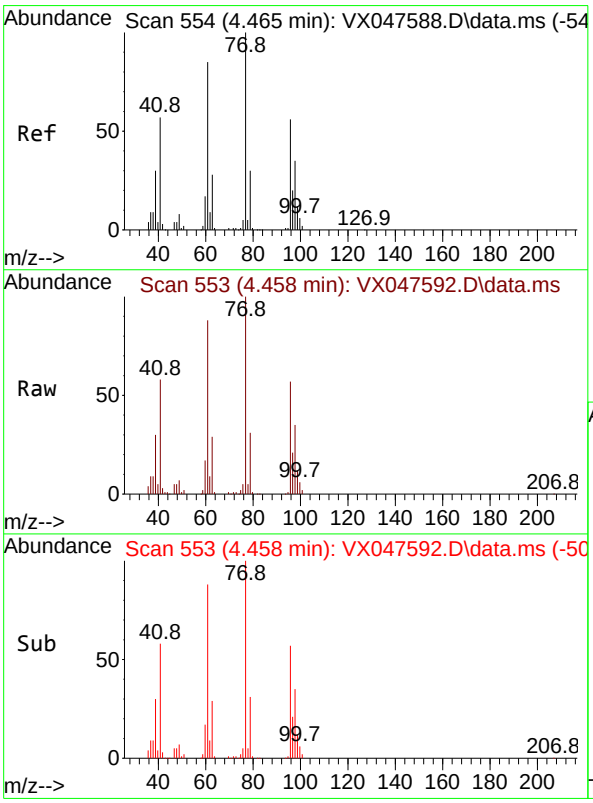
#25
2-Butanone
Concen: 253.598 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 408273

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.1	30.1

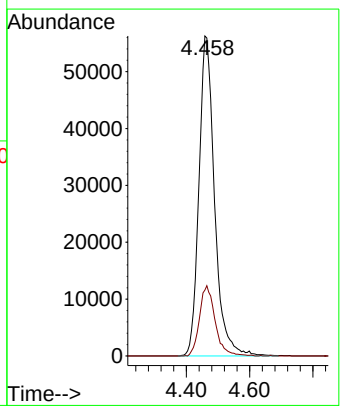


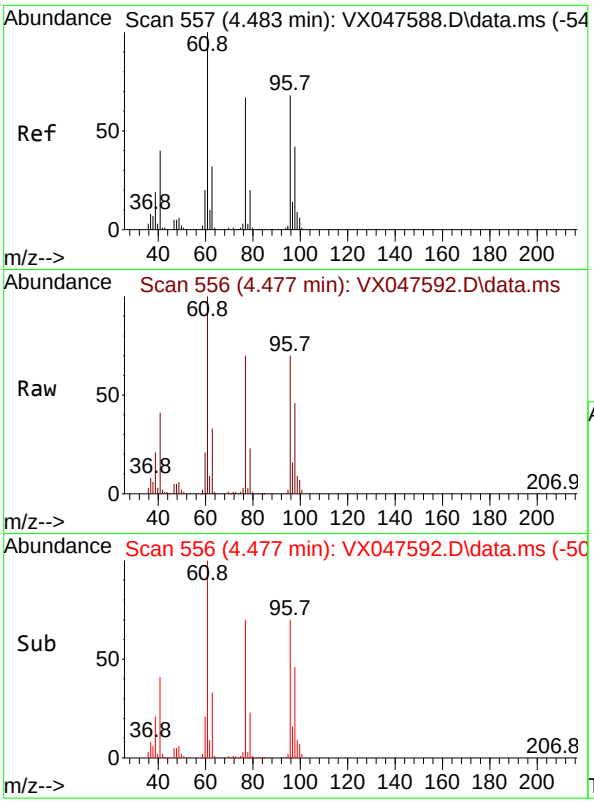


#26
2,2-Dichloropropane
Concen: 49.494 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 77 Resp: 193760

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7



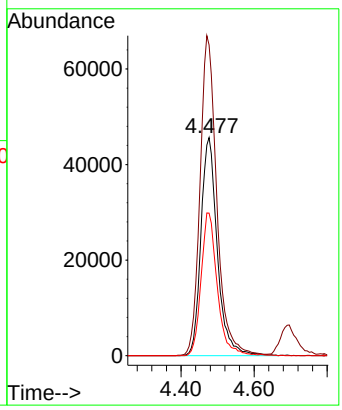


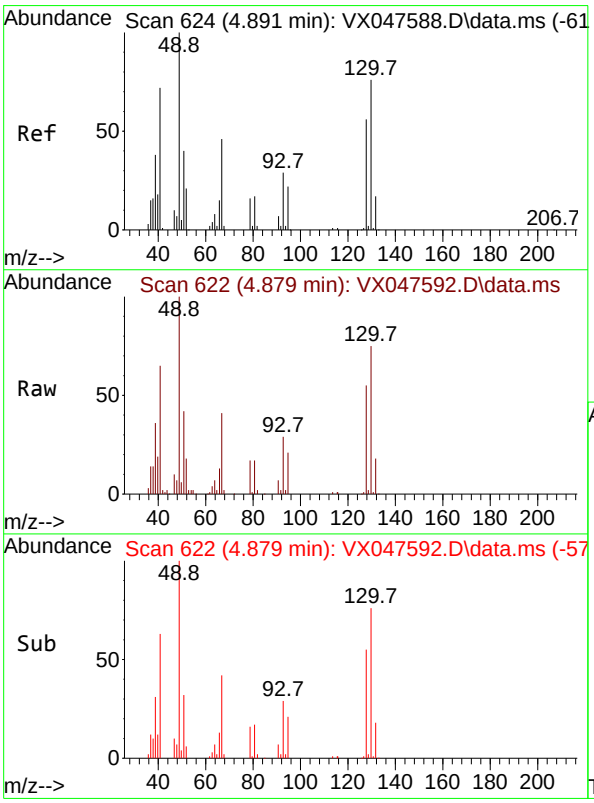
#27
cis-1,2-Dichloroethene
Concen: 48.826 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 96 Resp: 142635

Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	303.2
98	64.3	0.0	127.8

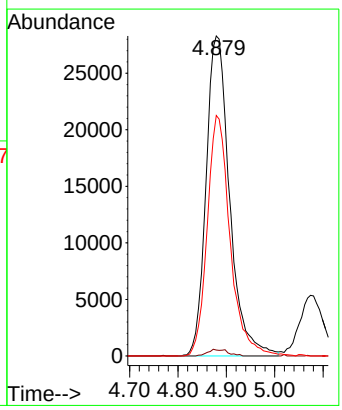


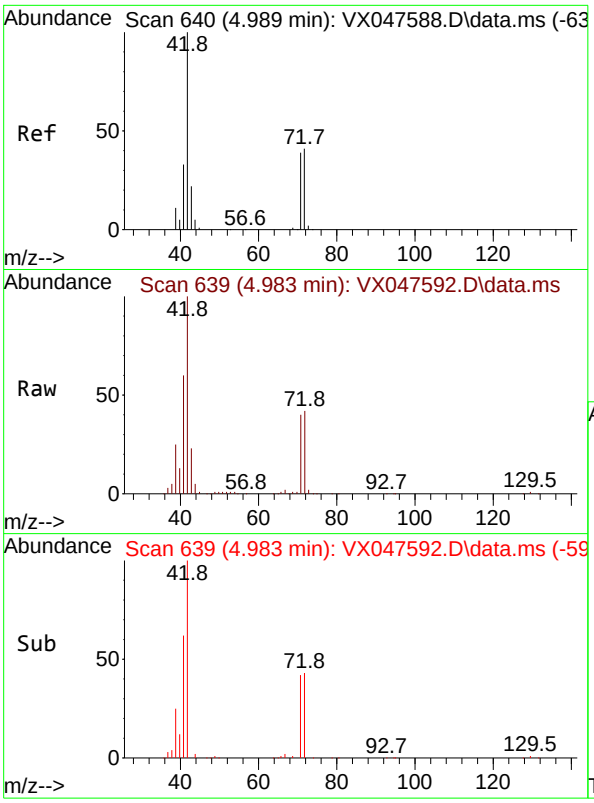


#28
Bromochloromethane
Concen: 46.586 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 49 Resp: 95782

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.9	57.8	86.8



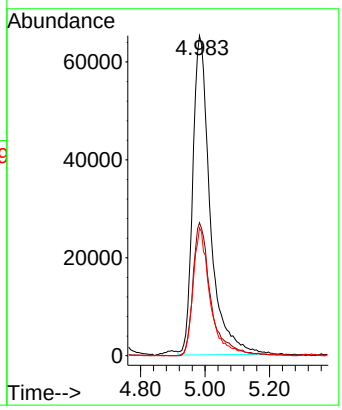


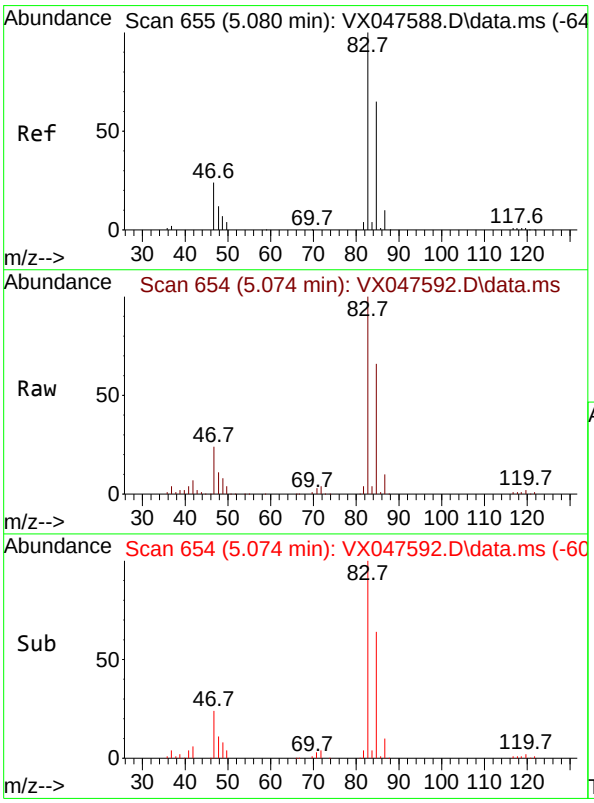
#29
Tetrahydrofuran
Concen: 253.375 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 42 Resp: 245392

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	38.9	31.9	47.9

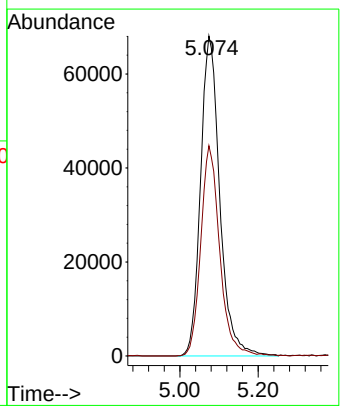


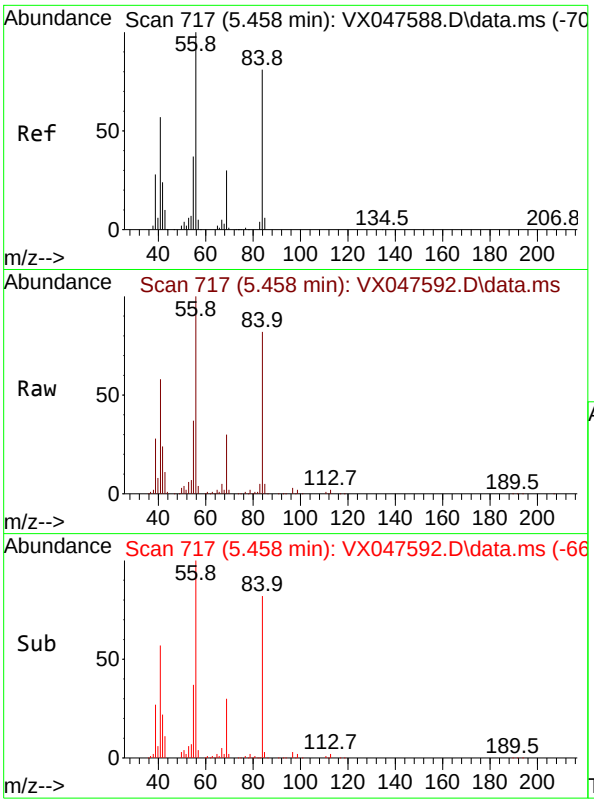


#30
Chloroform
Concen: 48.739 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 231954

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.8	77.6



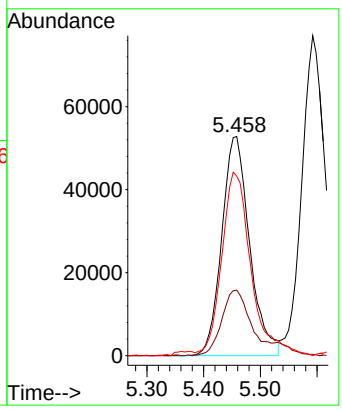


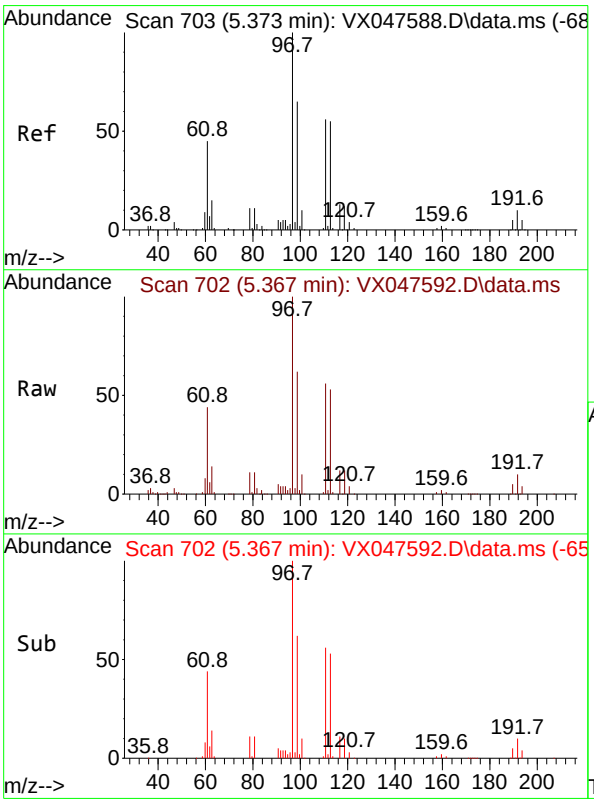
#31
Cyclohexane
Concen: 45.999 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 56 Resp: 180430

Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.8
84	80.3	64.6	97.0

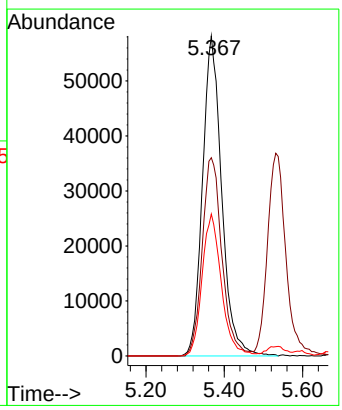


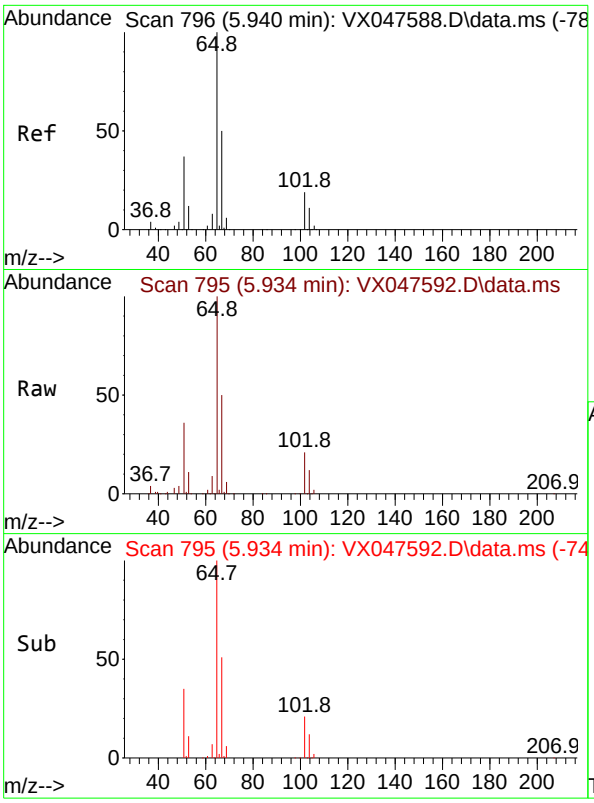


#32
1,1,1-Trichloroethane
Concen: 48.978 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 197711

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	44.6	35.8	53.8



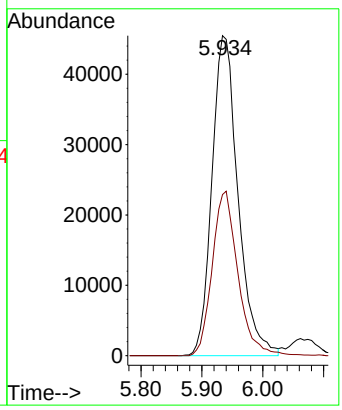


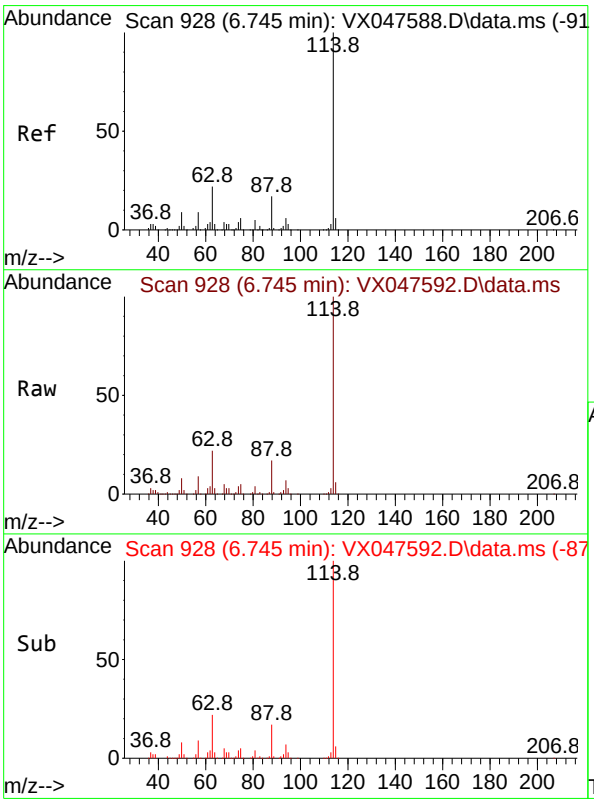
#33
1,2-Dichloroethane-d4
Concen: 45.550 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 65 Resp: 135209

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	103.0

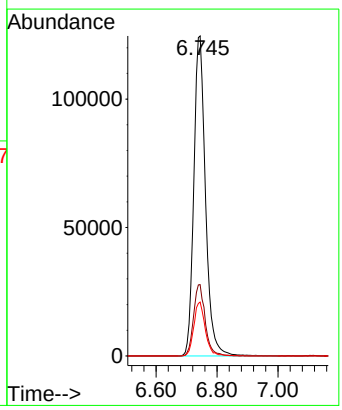


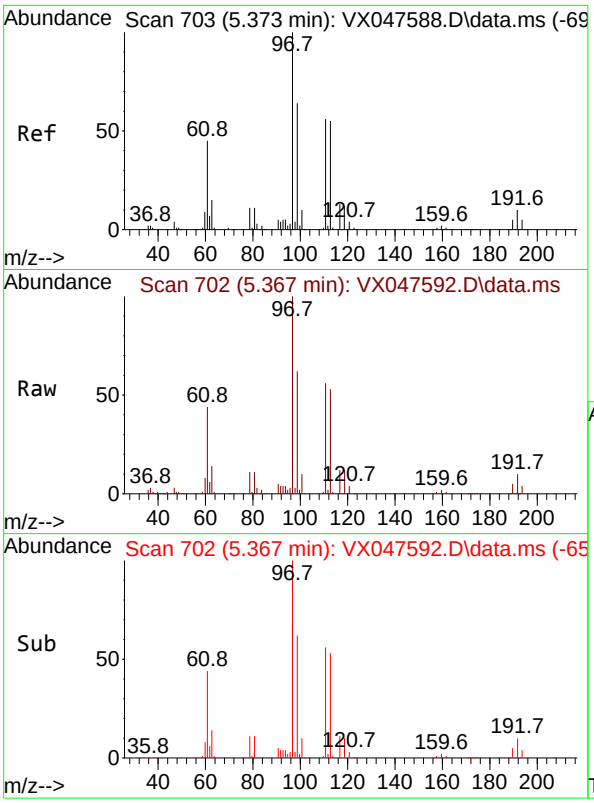


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:114 Resp: 331837

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2



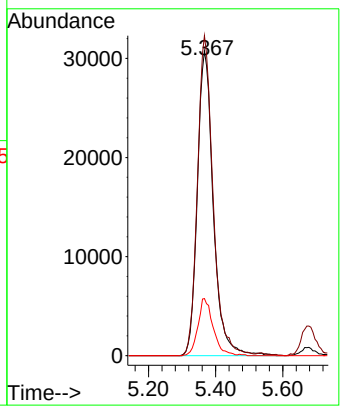


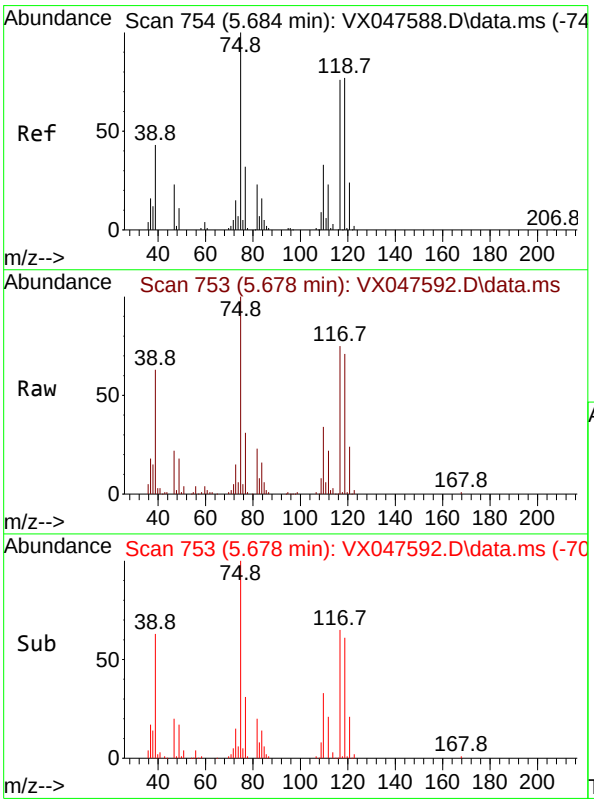
#35
Dibromofluoromethane
Concen: 45.559 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:113 Resp: 101390

Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.9	14.2	21.4

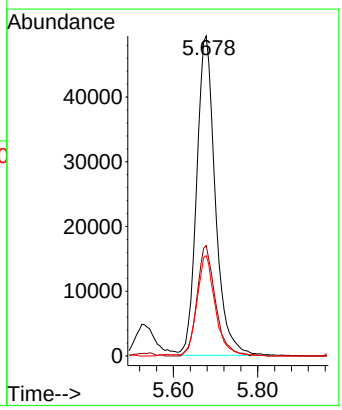


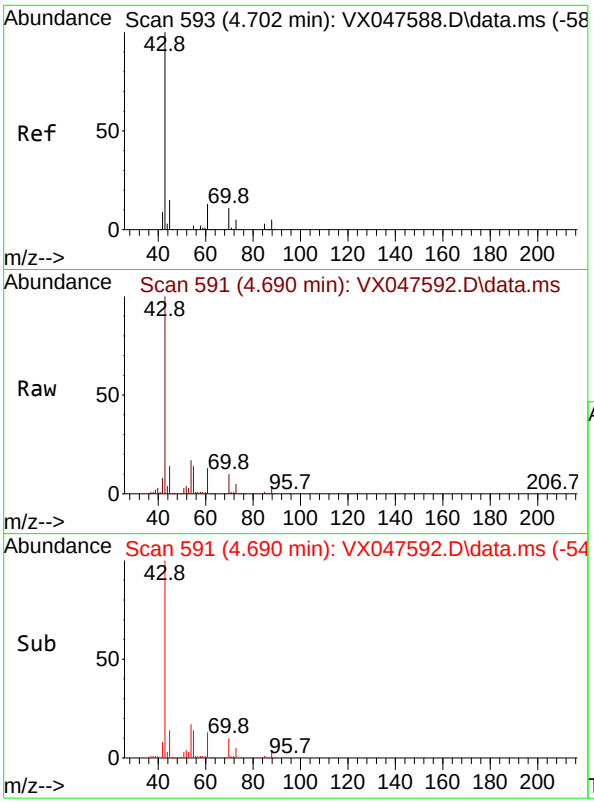


#36
1,1-Dichloropropene
Concen: 46.663 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 151745

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.0	24.3	36.5



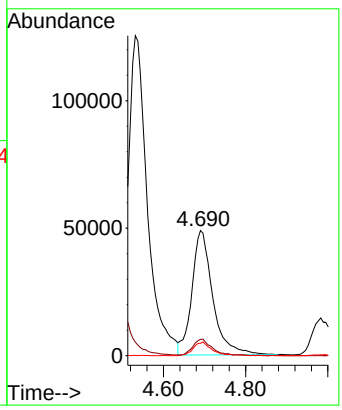


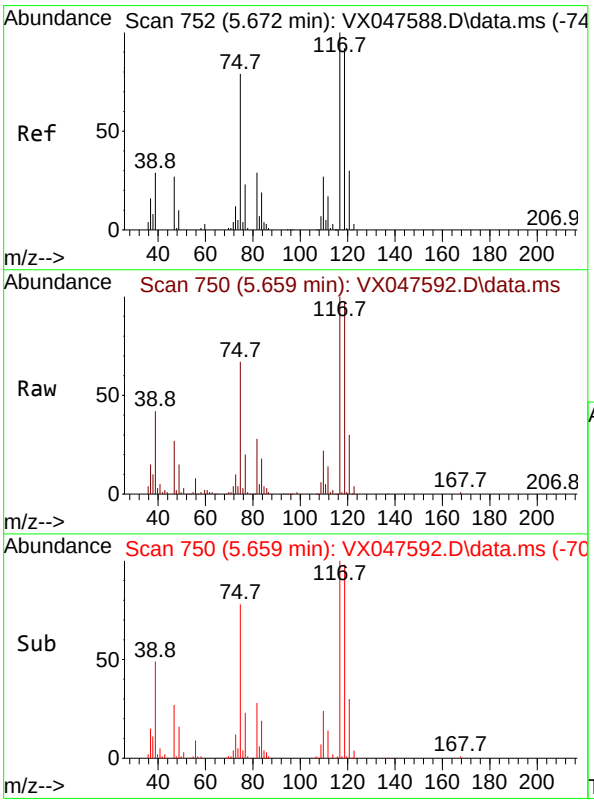
#37
Ethyl Acetate
Concen: 49.241 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 171454

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	9.8	7.9	11.9

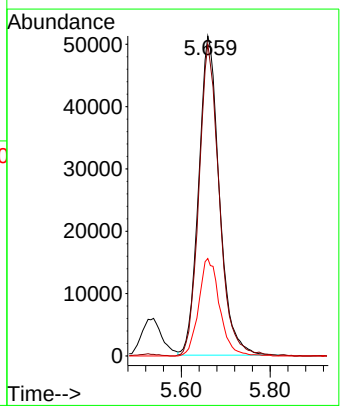


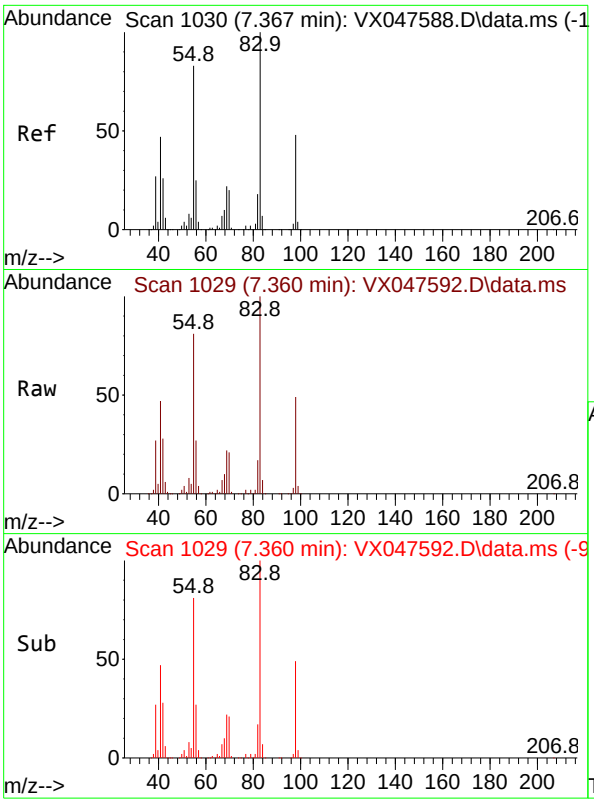


#38
Carbon Tetrachloride
Concen: 46.935 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 165834

Ion	Ratio	Lower	Upper
117	100		
119	97.6	73.4	110.2
121	30.5	23.8	35.6



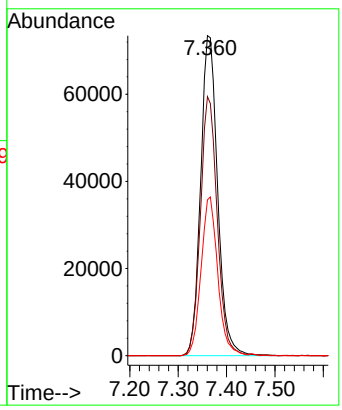


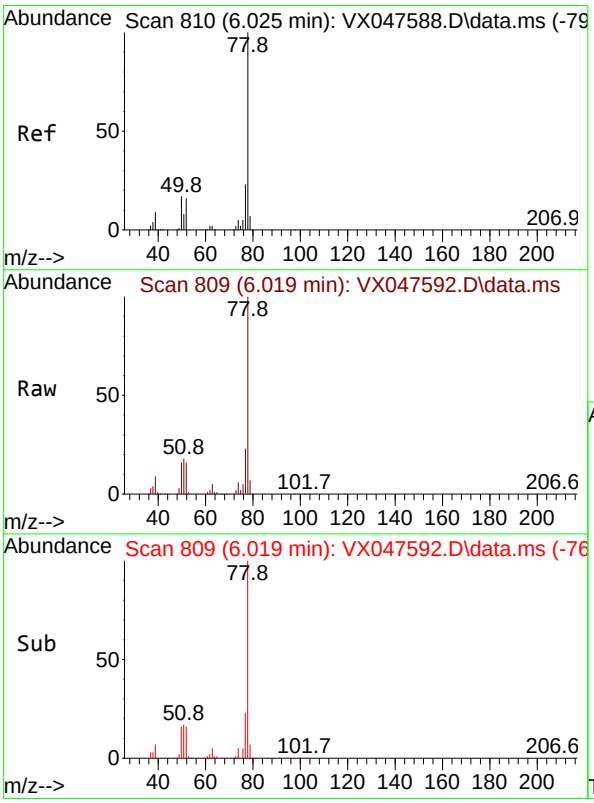
#39
Methylcyclohexane
Concen: 48.597 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 83 Resp: 179392

Ion	Ratio	Lower	Upper
83	100		
55	81.0	66.4	99.6
98	48.7	38.1	57.1

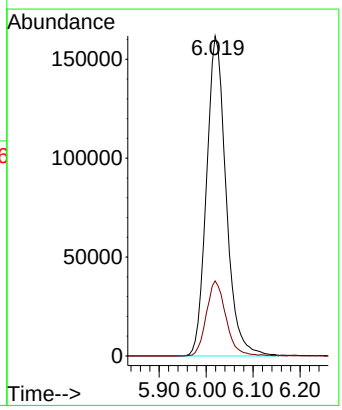


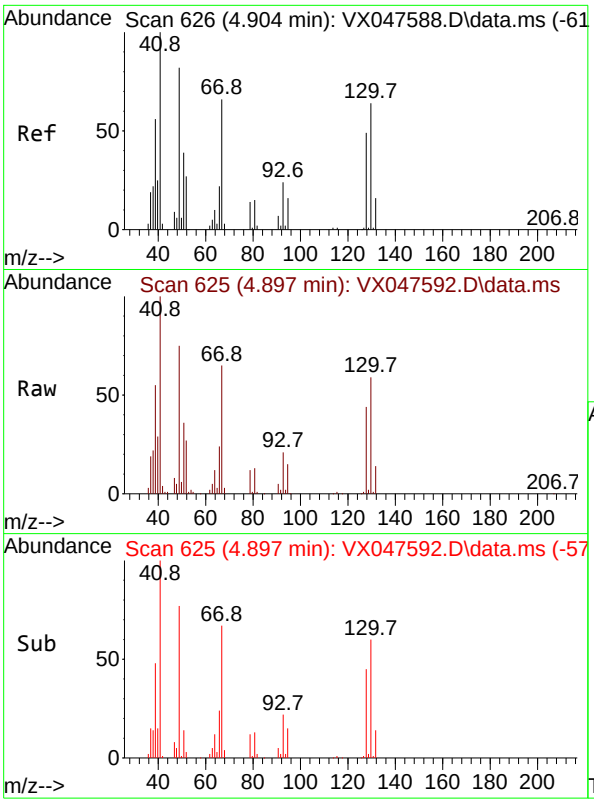


#40
Benzene
Concen: 47.357 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 78 Resp: 467748

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



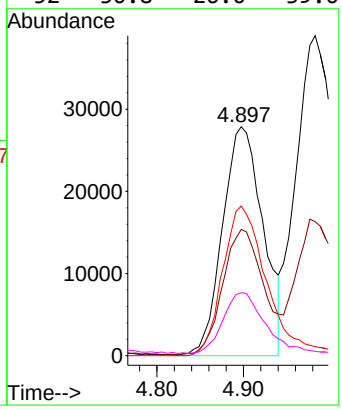


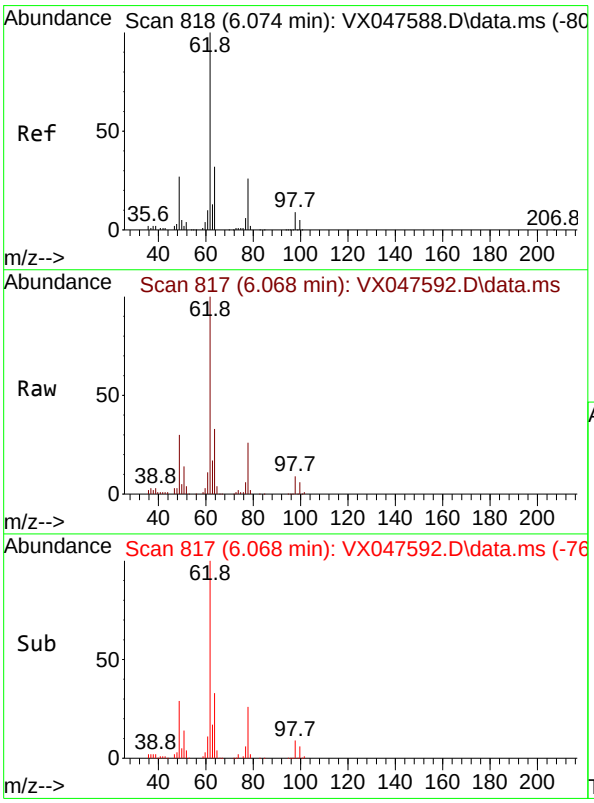
#41
Methacrylonitrile
Concen: 50.490 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 41 Resp: 90758

Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.3	64.9
67	72.5	58.6	87.8
52	30.8	26.0	39.0

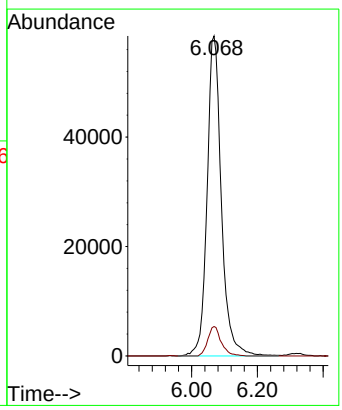


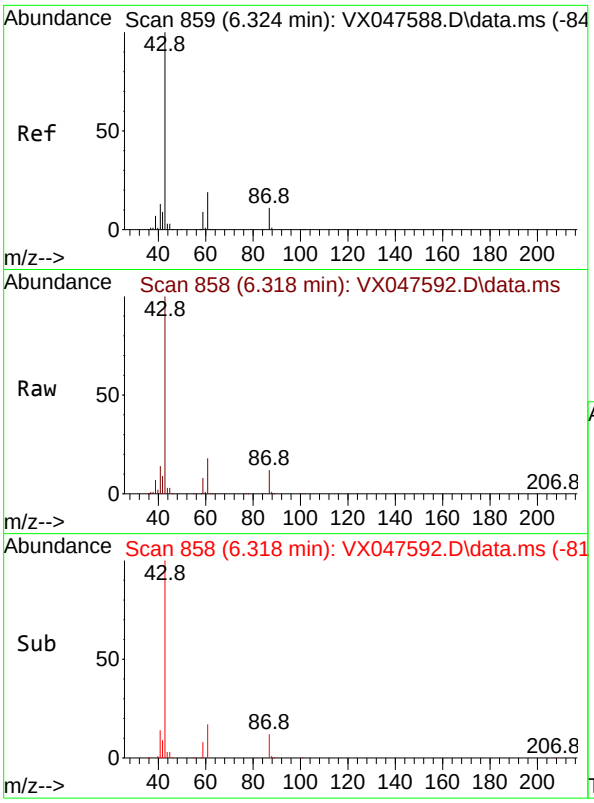


#42
1,2-Dichloroethane
Concen: 46.867 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 176131

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



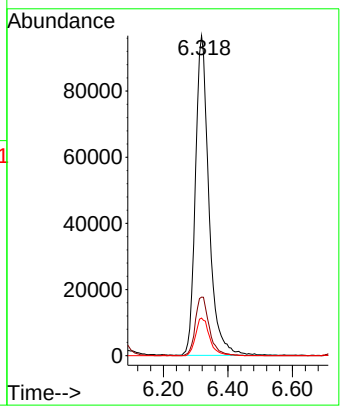


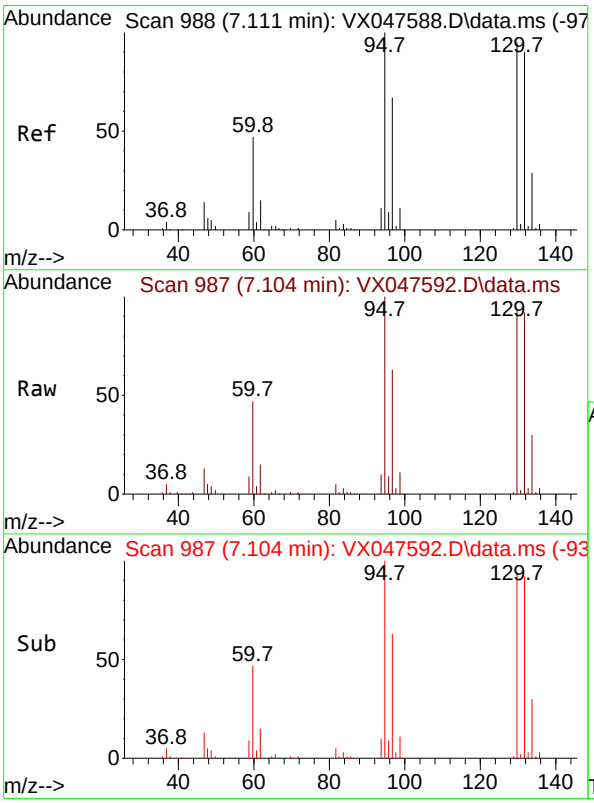
#43
Isopropyl Acetate
Concen: 49.136 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 280595

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.2	22.8
87	12.2	9.6	14.4

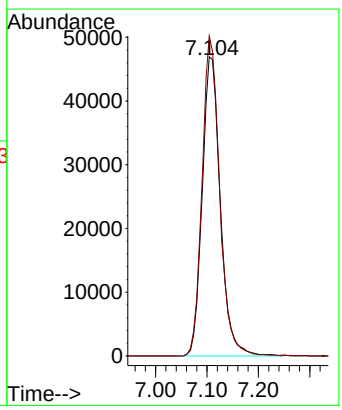


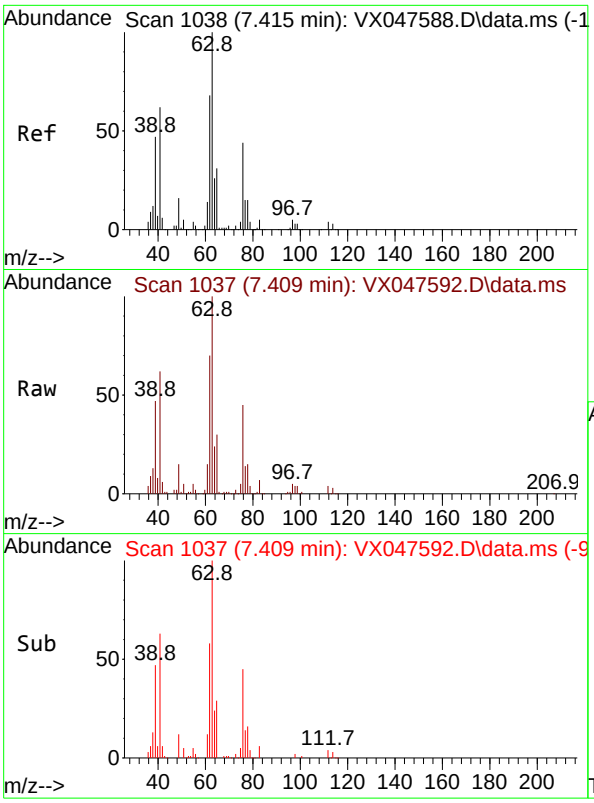


#44
Trichloroethene
Concen: 48.037 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:130 Resp: 114708

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	210.8



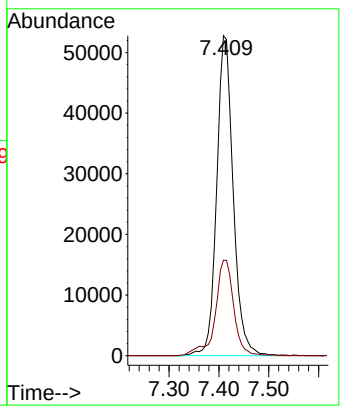


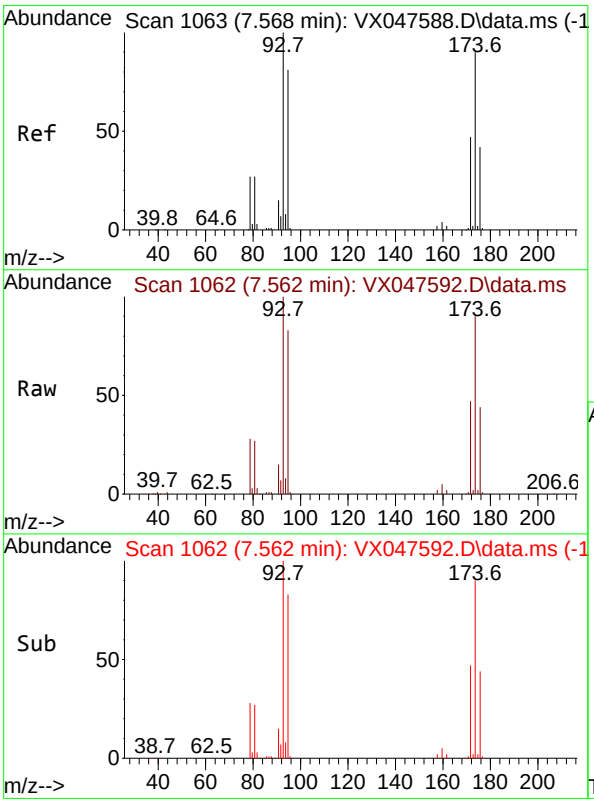
#45
1,2-Dichloropropane
Concen: 48.053 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 63 Resp: 121532

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.7	37.1

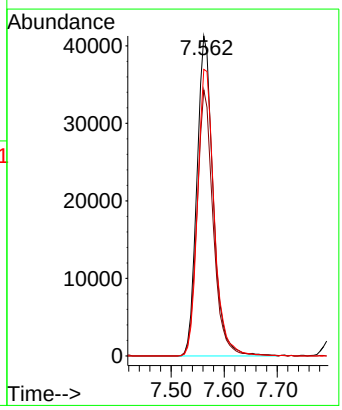


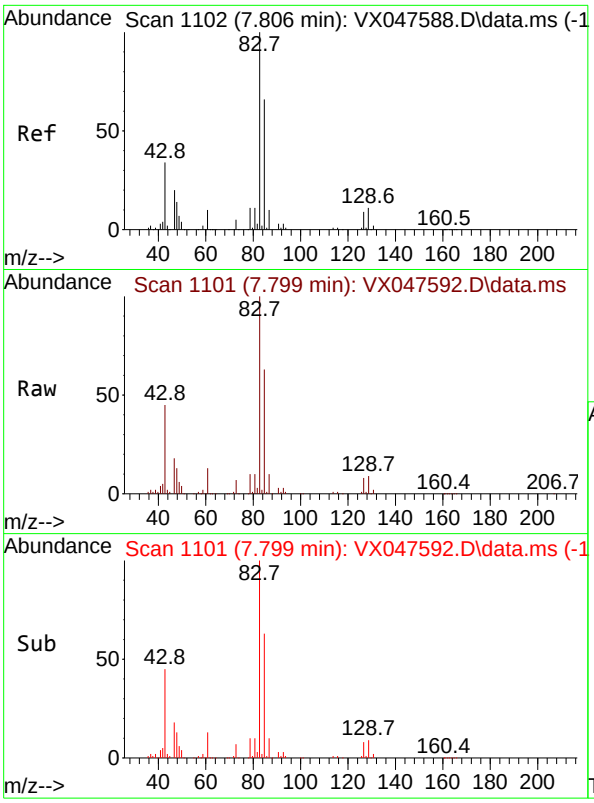


#46
Dibromomethane
Concen: 47.976 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 93 Resp: 88297

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.3	71.6	107.4



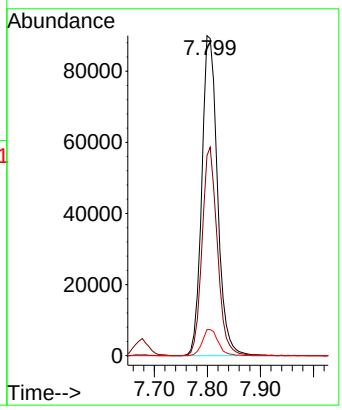


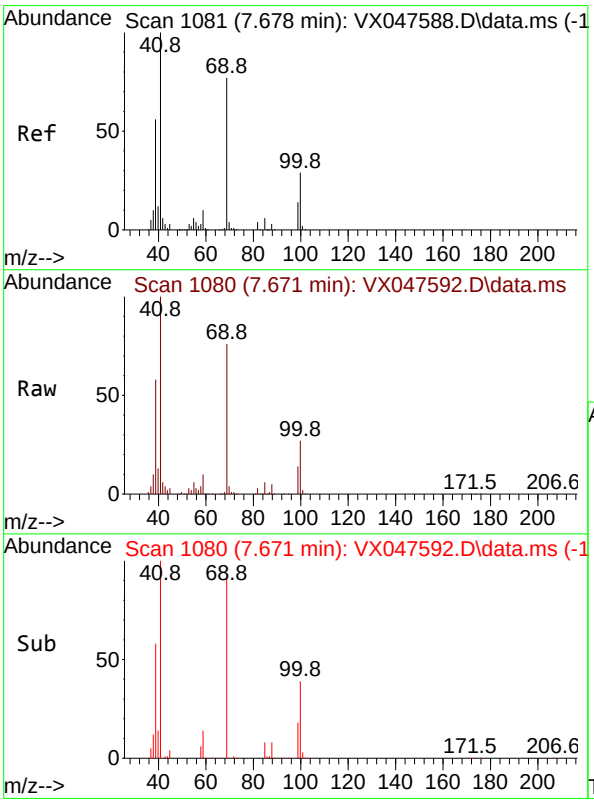
#47
Bromodichloromethane
Concen: 48.769 ug/l
RT: 7.799 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 83 Resp: 185219

Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3

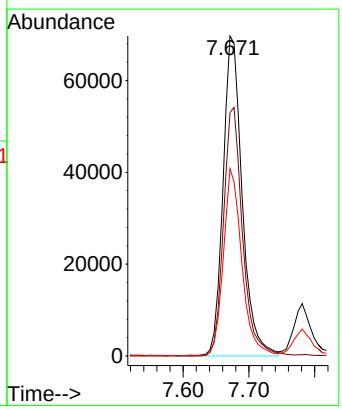


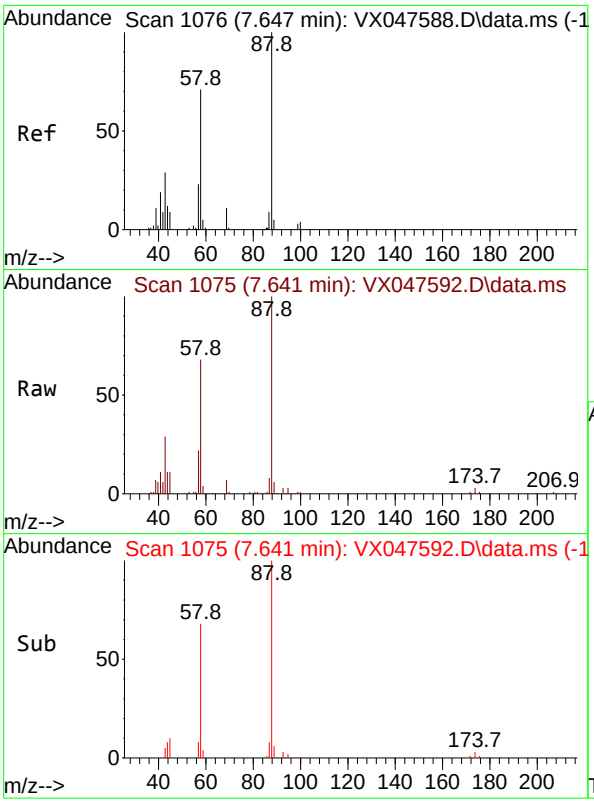


#48
Methyl methacrylate
Concen: 49.757 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 141532

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	56.4	45.8	68.6



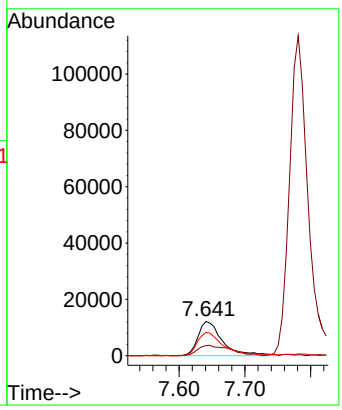


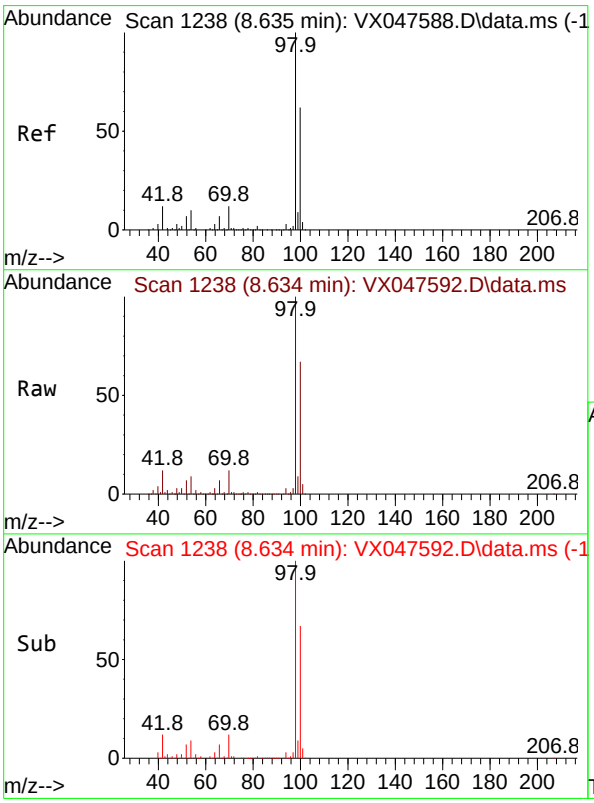
#49
1,4-Dioxane
Concen: 1089.520 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 88 Resp: 31320

Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.2	45.2
58	74.1	59.5	89.3

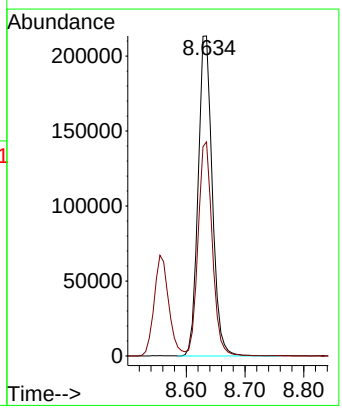


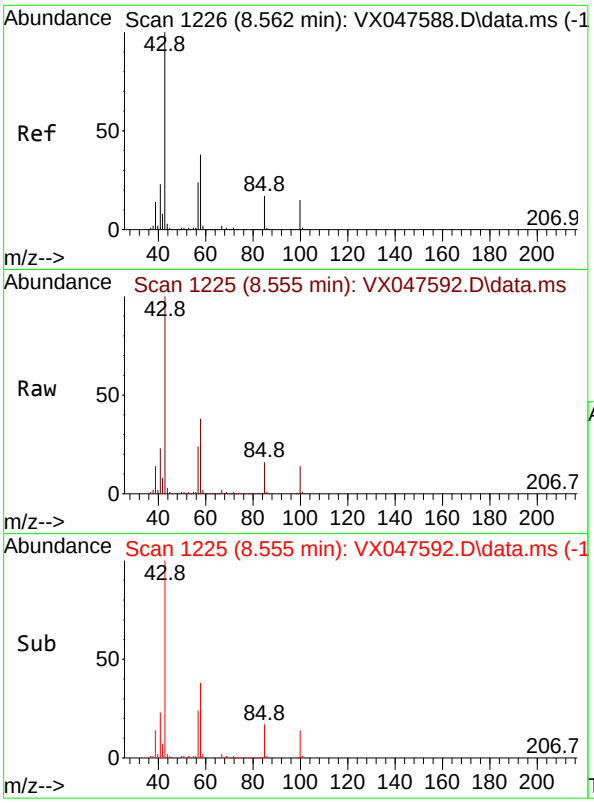


#50
Toluene-d8
Concen: 46.411 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 98 Resp: 357393

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4



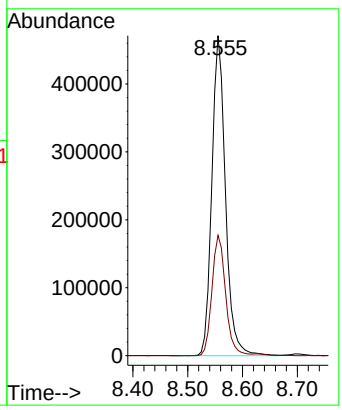


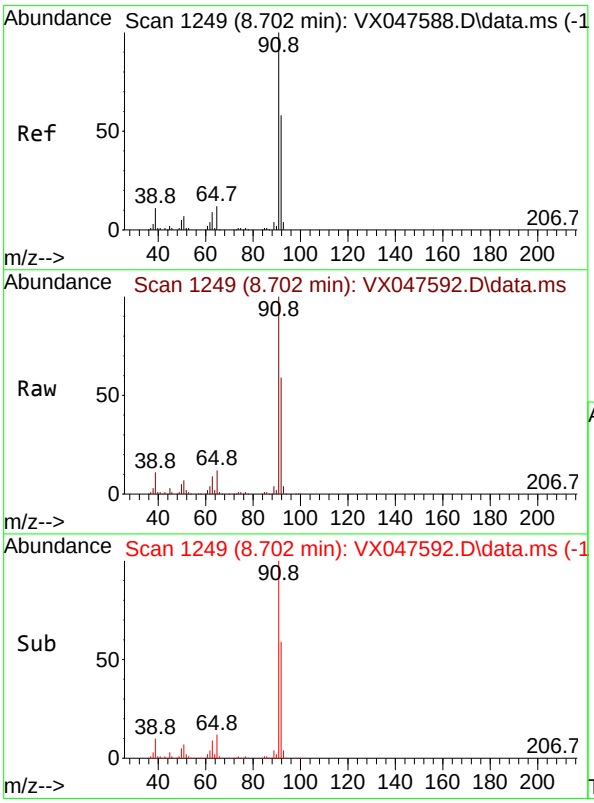
#51
4-Methyl-2-Pentanone
Concen: 255.752 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 809759

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

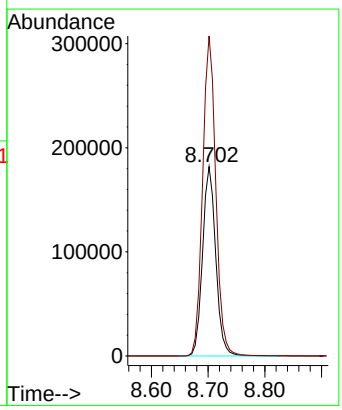


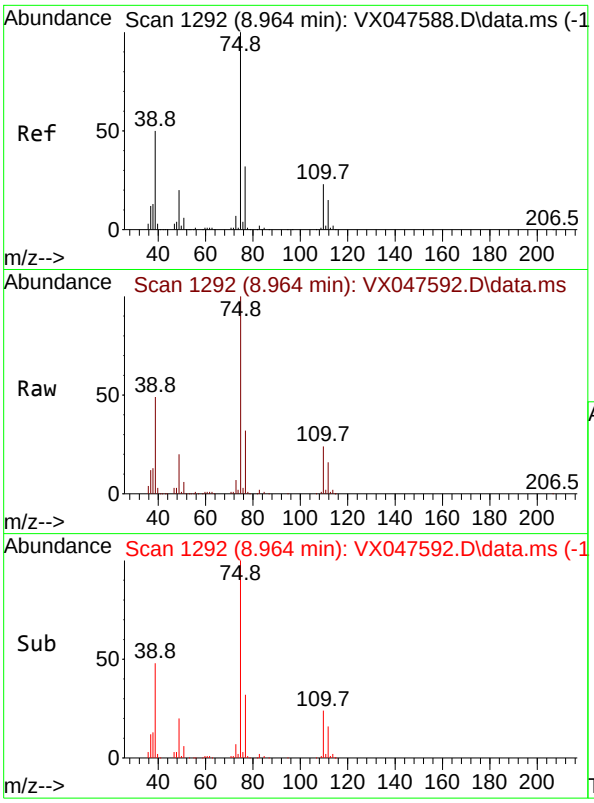


#52
Toluene
Concen: 48.130 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 92 Resp: 292879

Ion	Ratio	Lower	Upper
92	100		
91	169.4	137.1	205.7



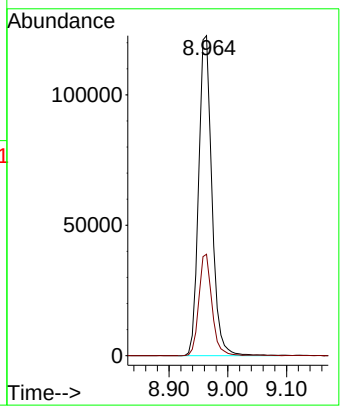


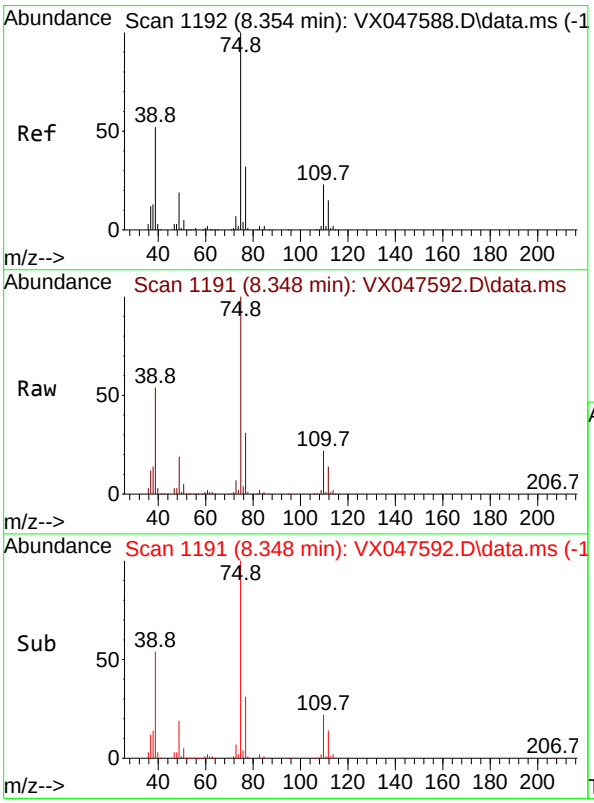
#53
t-1,3-Dichloropropene
Concen: 49.527 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 75 Resp: 191863

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2

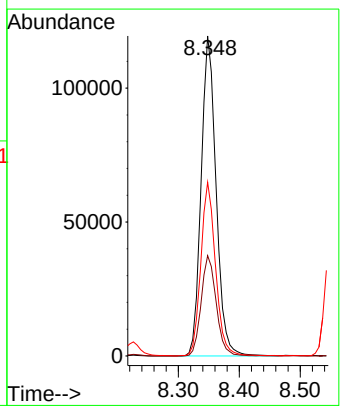


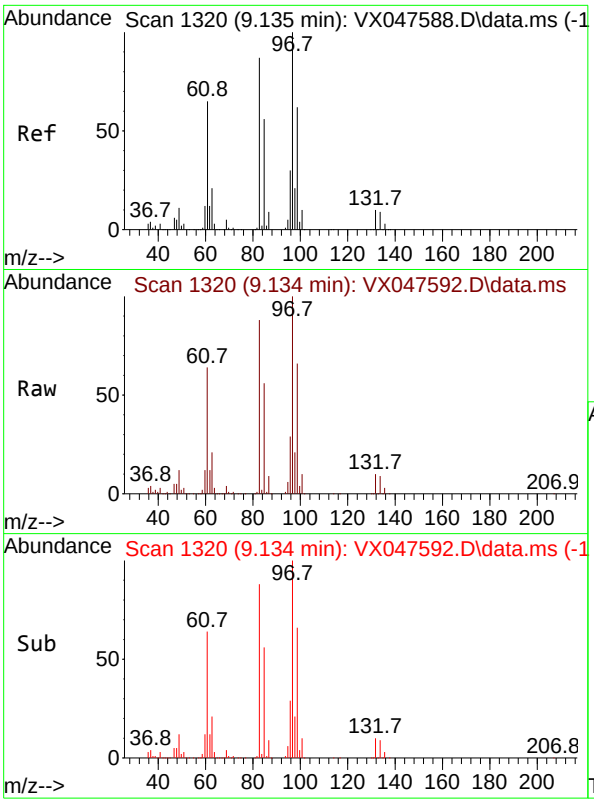


#54
cis-1,3-Dichloropropene
Concen: 49.257 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 203954

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	54.2	41.4	62.2



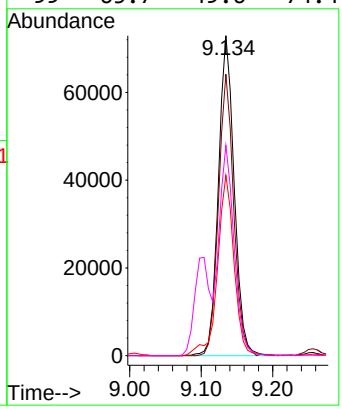


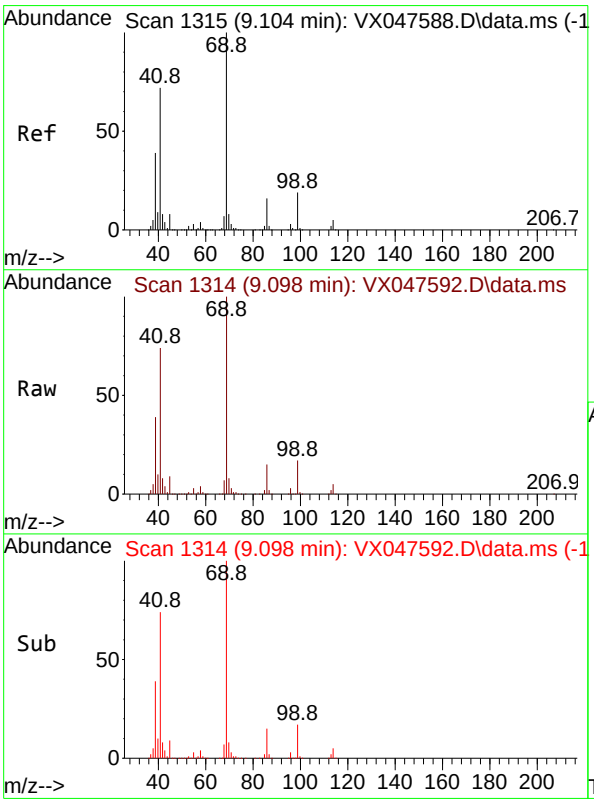
#55
1,1,2-Trichloroethane
Concen: 47.772 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 97 Resp: 112094

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4

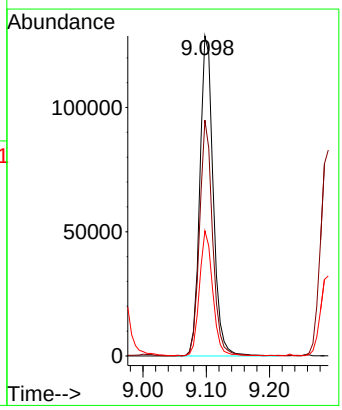


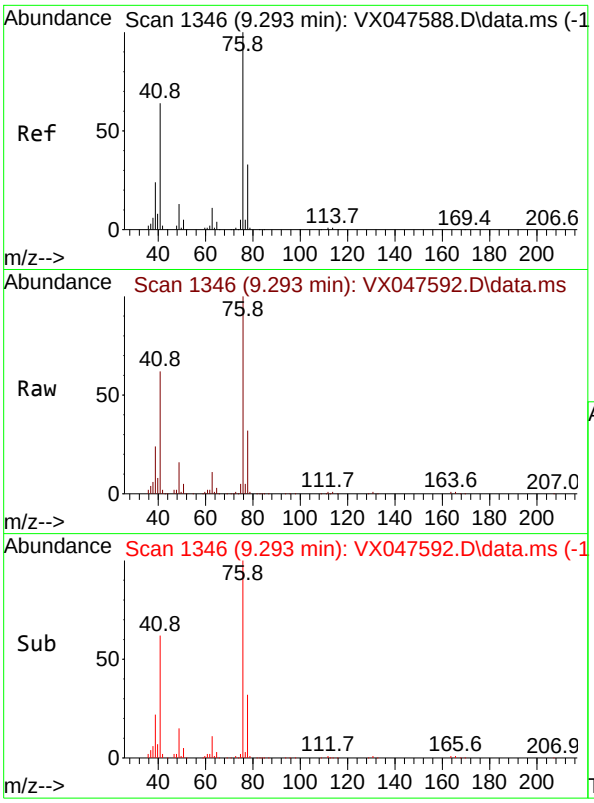


#56
Ethyl methacrylate
Concen: 51.490 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 69 Resp: 189741

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3



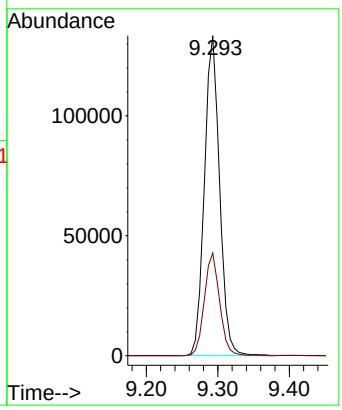


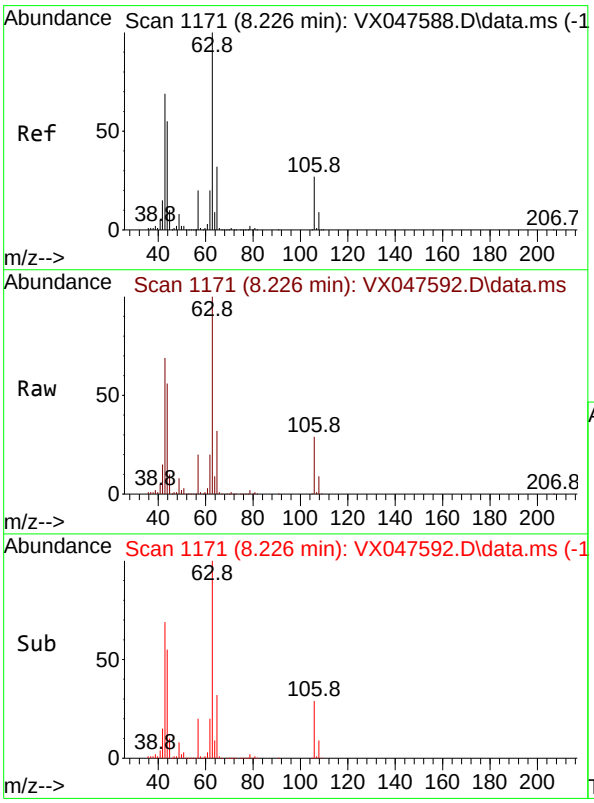
#57
1,3-Dichloropropane
Concen: 48.894 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 76 Resp: 197079

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4

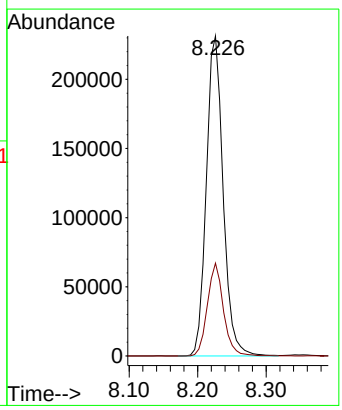


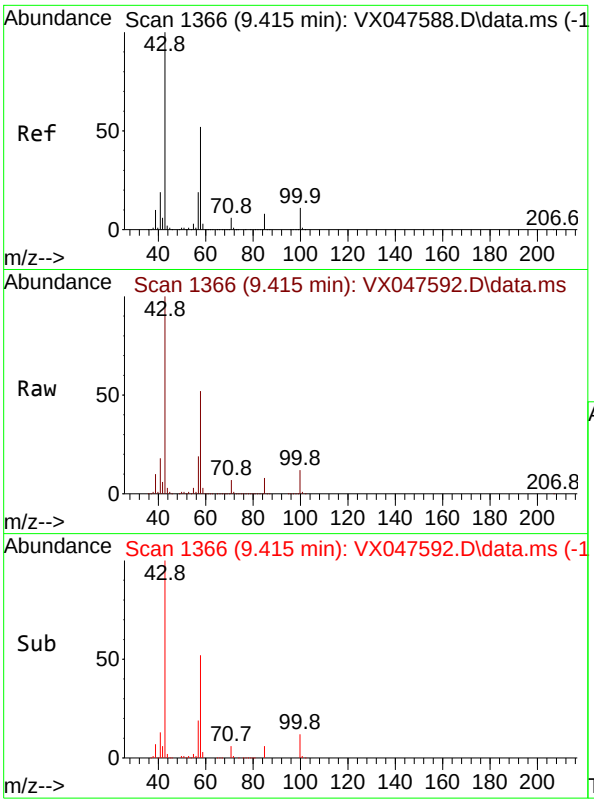


#58
2-Chloroethyl Vinyl ether
Concen: 225.562 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 394205

Ion	Ratio	Lower	Upper
63	100		
106	27.8	21.9	32.9



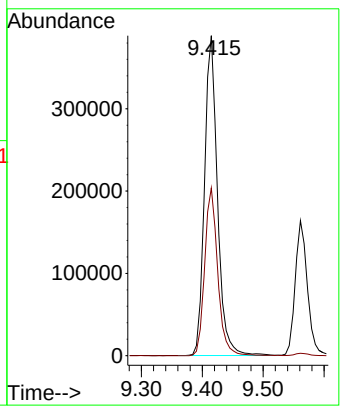


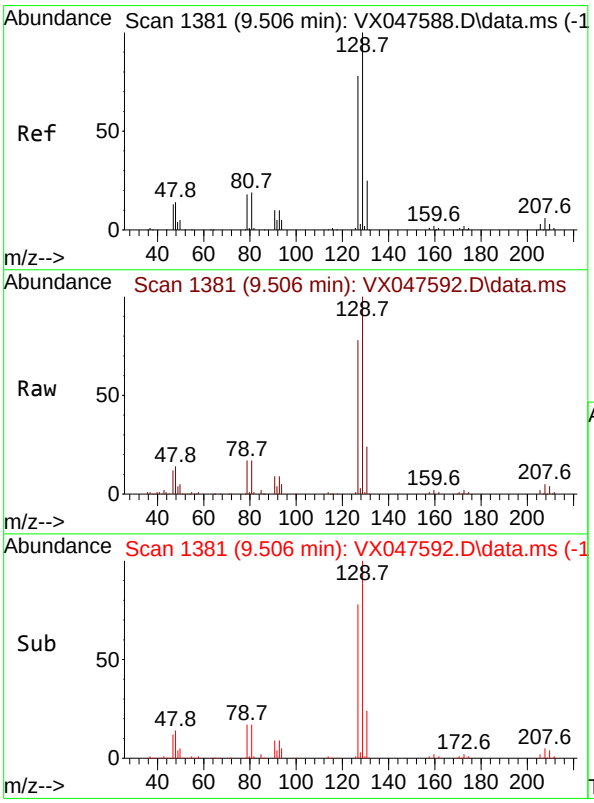
#59
2-Hexanone
Concen: 253.126 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 575599

Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.1	78.2

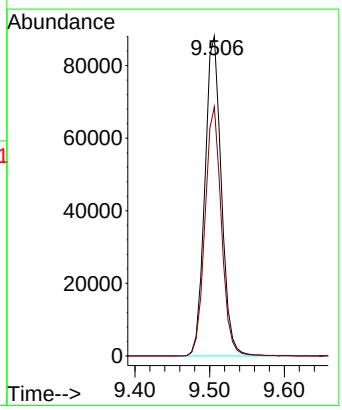


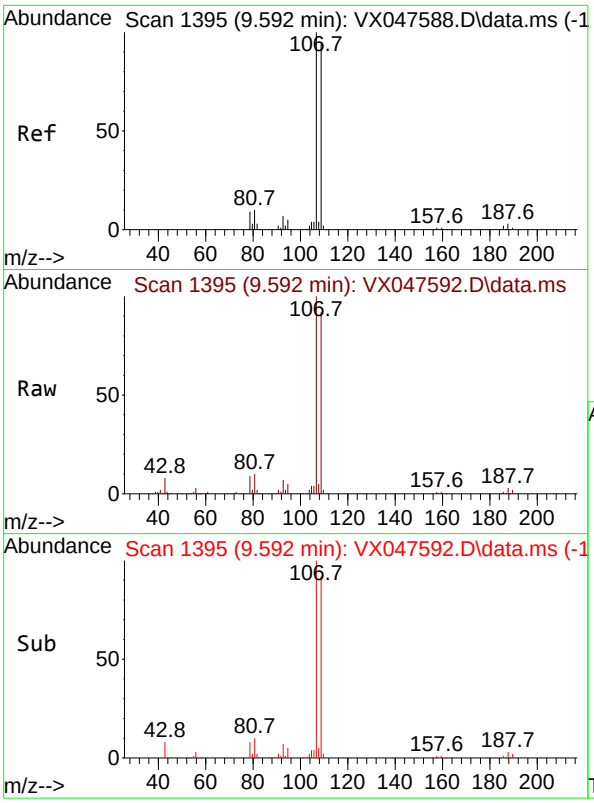


#60
Dibromochloromethane
Concen: 49.824 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:129 Resp: 134704

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.4	115.2



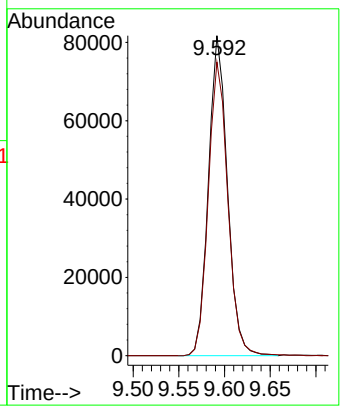


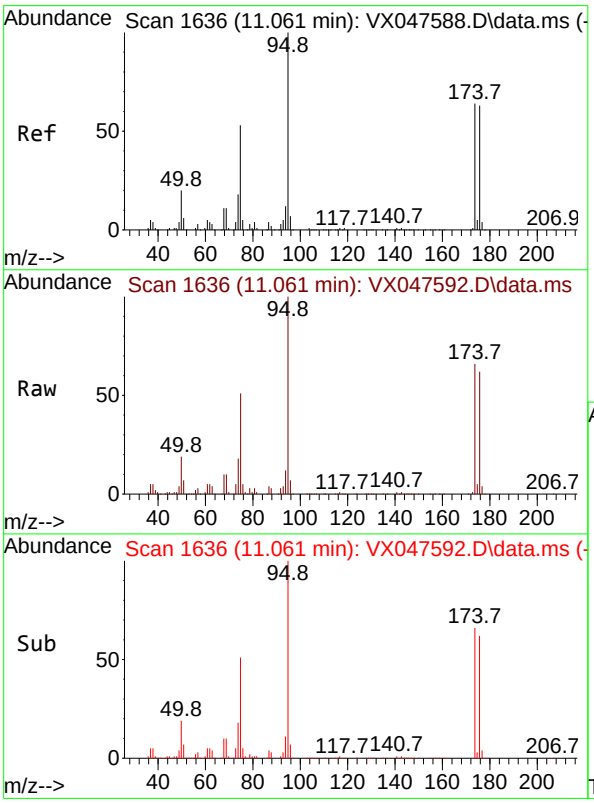
#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:107 Resp: 117817

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.3	112.9

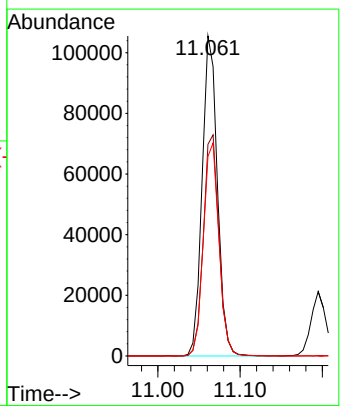


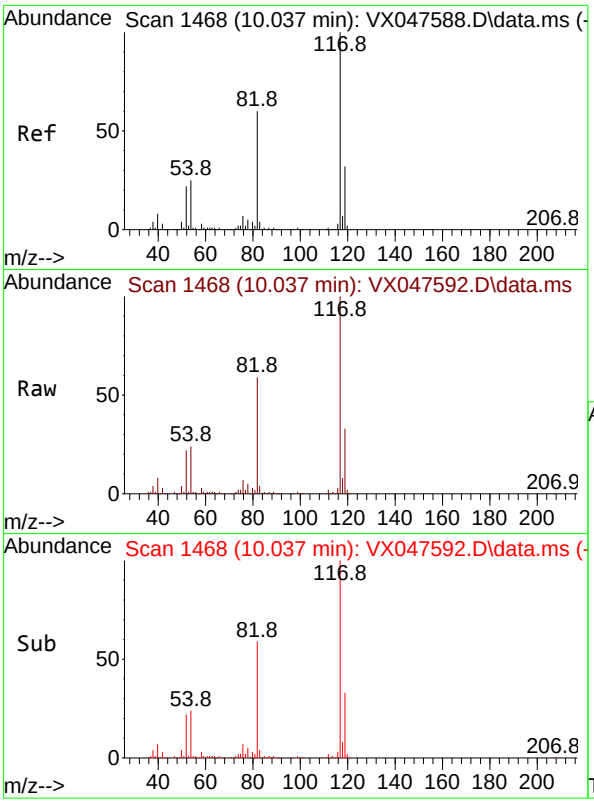


#62
4-Bromofluorobenzene
Concen: 46.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 95 Resp: 135957

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	141.6
176	68.0	0.0	138.4



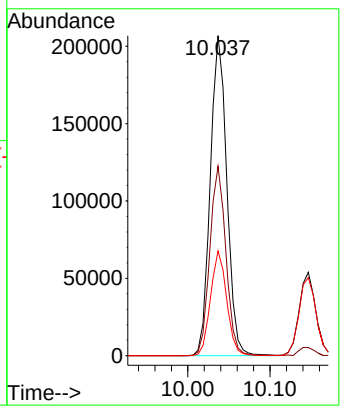


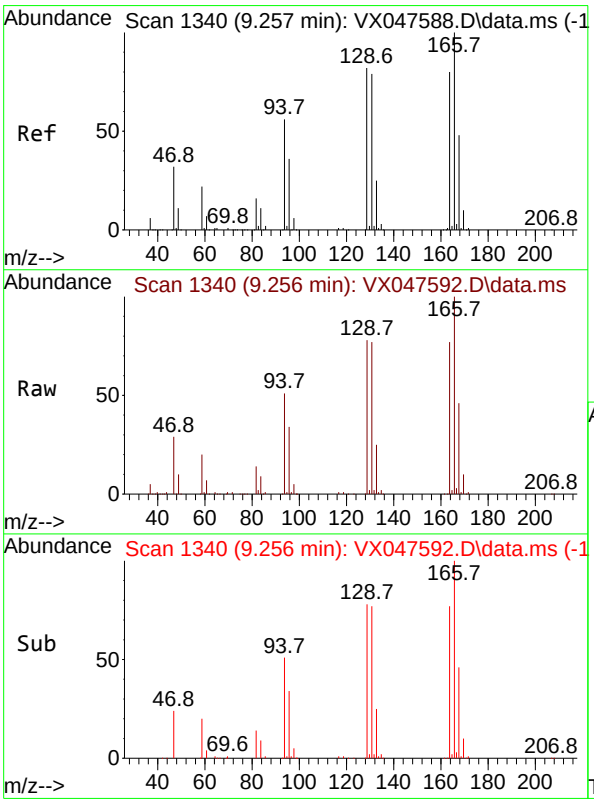
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:117 Resp: 288660

Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.6
119	32.7	25.2	37.8

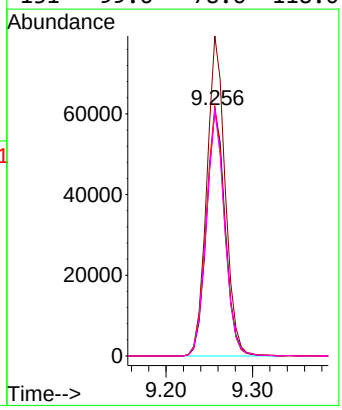


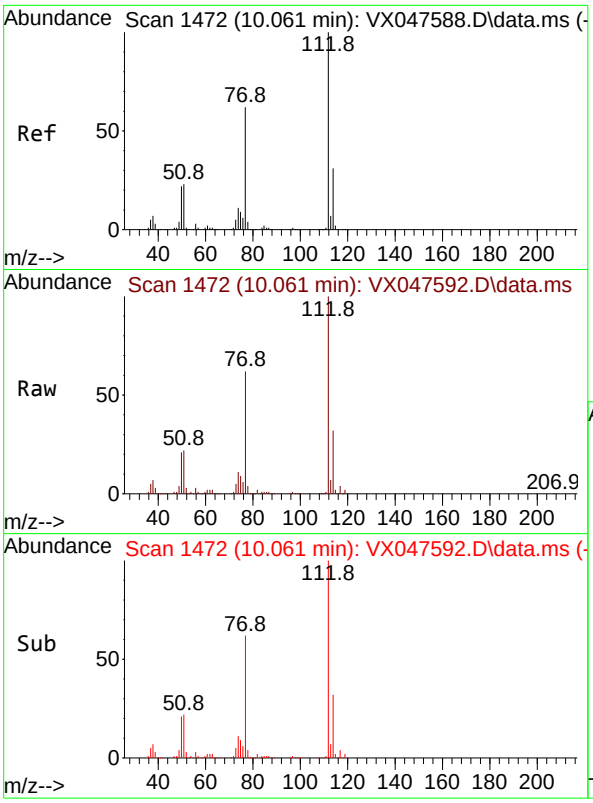


#64
Tetrachloroethene
Concen: 48.296 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:164 Resp: 90881

Ion	Ratio	Lower	Upper
164	100		
166	129.8	100.2	150.2
129	101.3	81.8	122.6
131	99.6	78.6	118.0



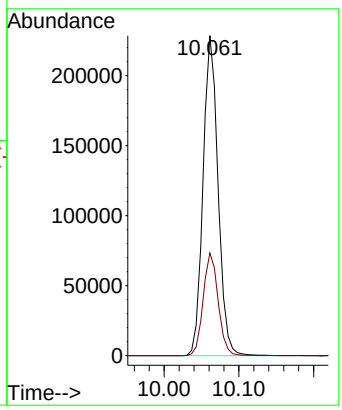


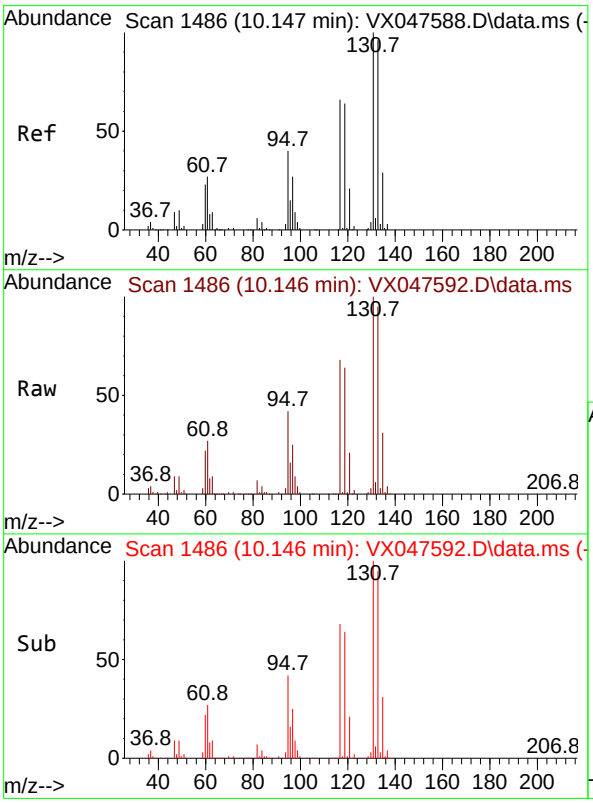
#65
Chlorobenzene
Concen: 48.549 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:112 Resp: 318372

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.1	37.7

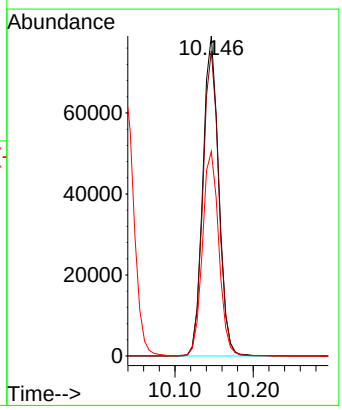


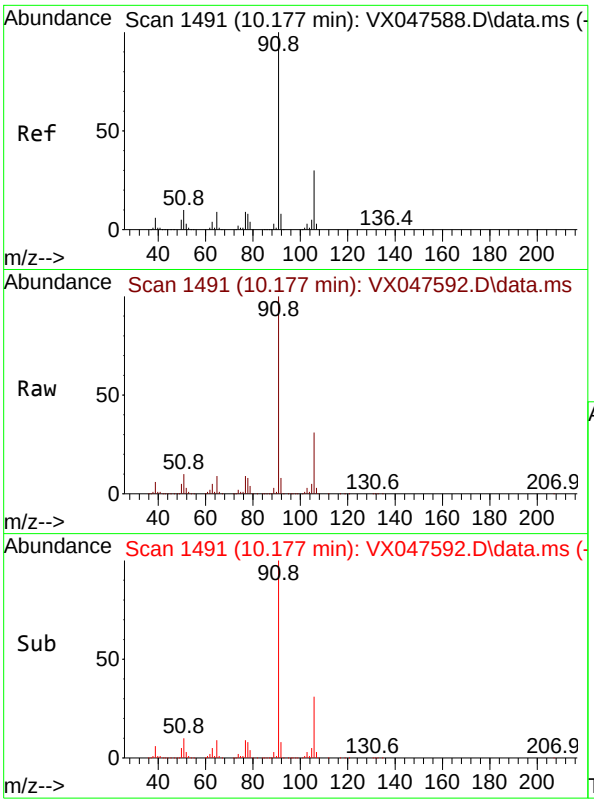


#66
1,1,1,2-Tetrachloroethane
Concen: 48.794 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:131 Resp: 110416

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	66.3	32.0	96.0



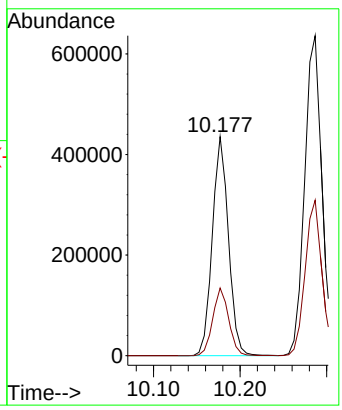


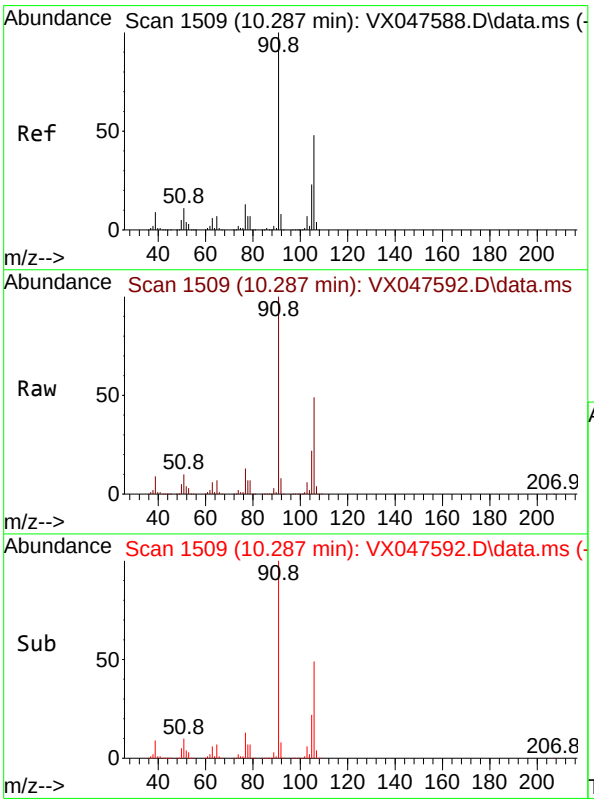
#67
Ethyl Benzene
Concen: 49.813 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 91 Resp: 563634

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.3	36.5

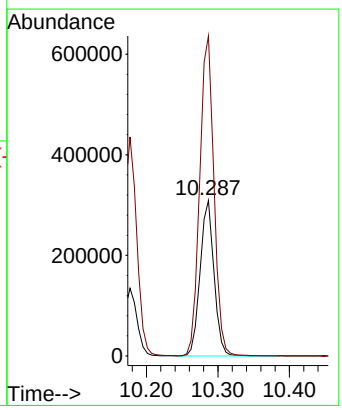


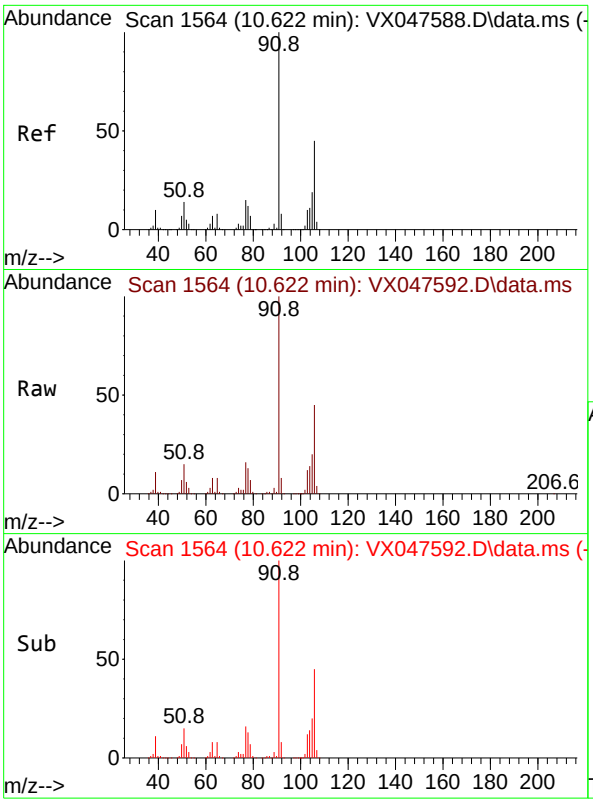


#68
m/p-Xylenes
Concen: 98.956 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 416757

Ion	Ratio	Lower	Upper
106	100		
91	211.1	167.8	251.8



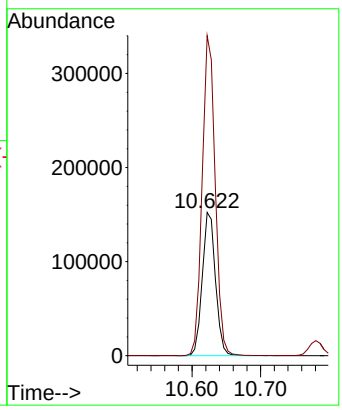


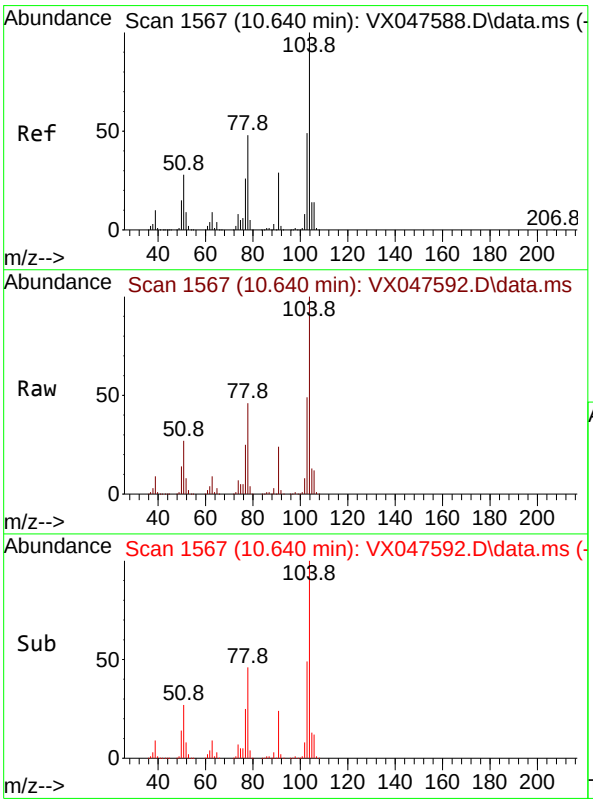
#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:106 Resp: 204323

Ion	Ratio	Lower	Upper
106	100		
91	221.0	111.1	333.4

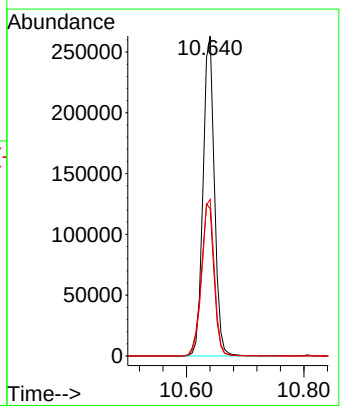


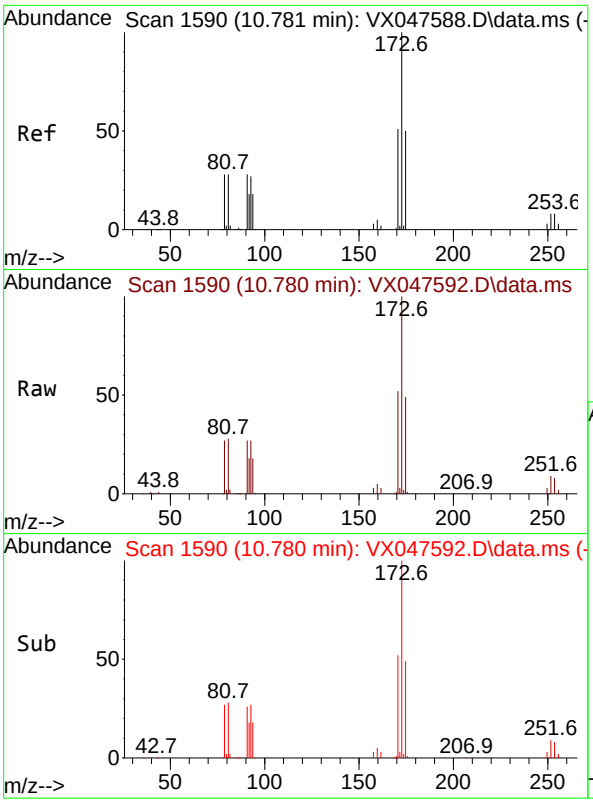


#70
Styrene
Concen: 49.536 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:104 Resp: 353567

Ion	Ratio	Lower	Upper
104	100		
78	53.4	43.1	64.7
103	54.3	43.1	64.7



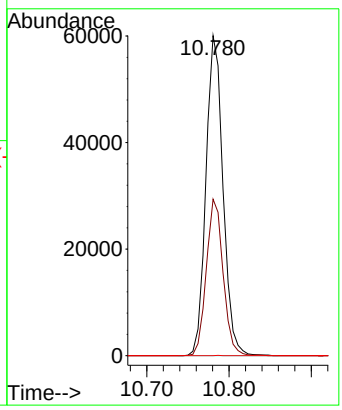


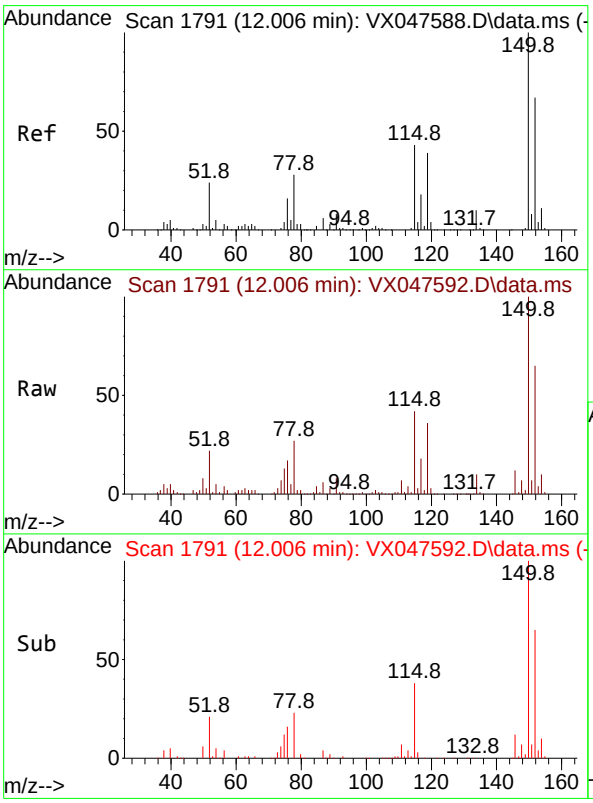
#71
Bromoform
Concen: 51.207 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:173 Resp: 86524

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.9	74.6
254	0.0	0.1	0.1#

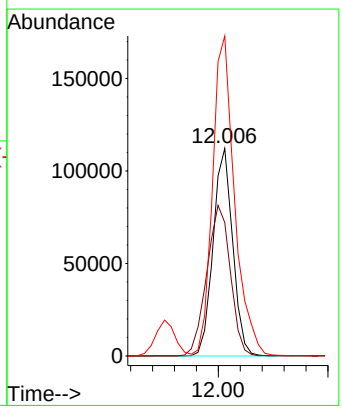


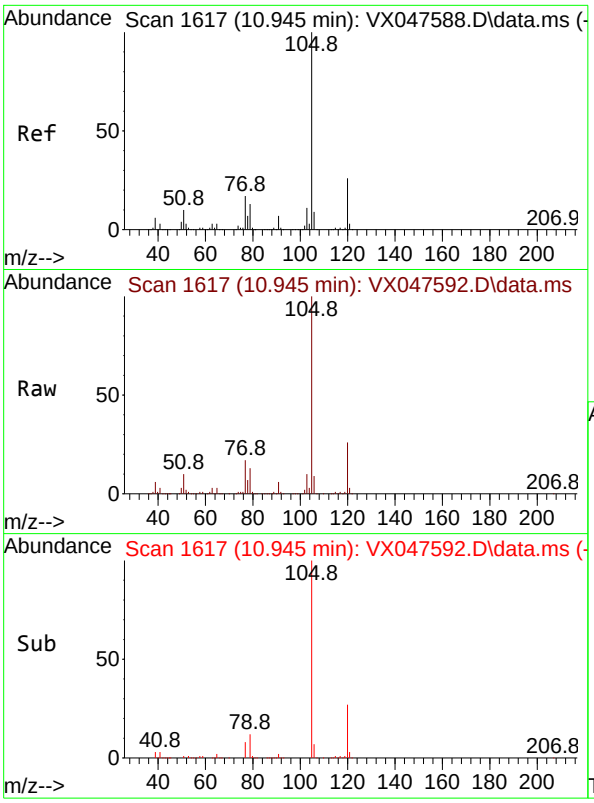


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:152 Resp: 139252

Ion	Ratio	Lower	Upper
152	100		
115	87.5	44.9	134.5
150	173.5	0.0	352.0



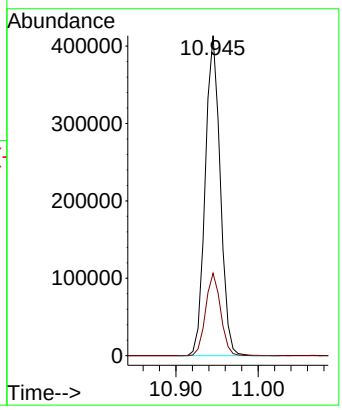


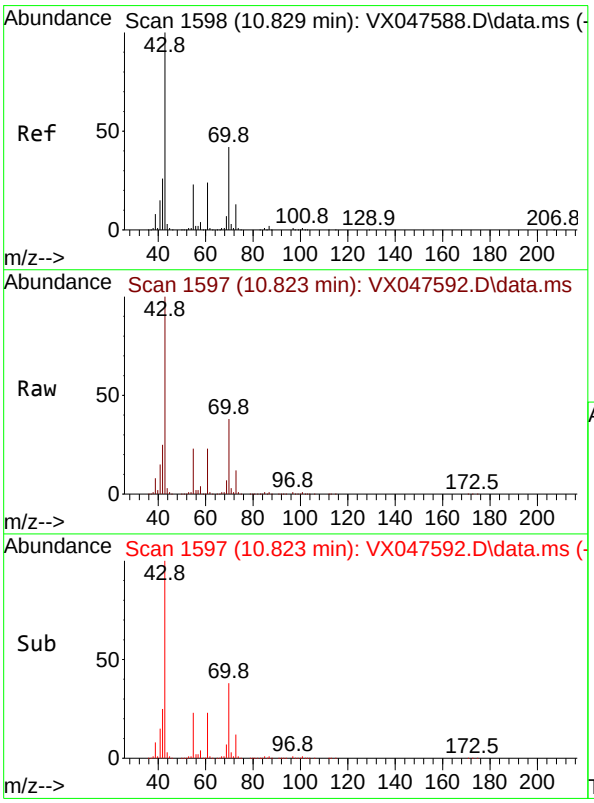
#73
Isopropylbenzene
Concen: 49.479 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:105 Resp: 523826

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

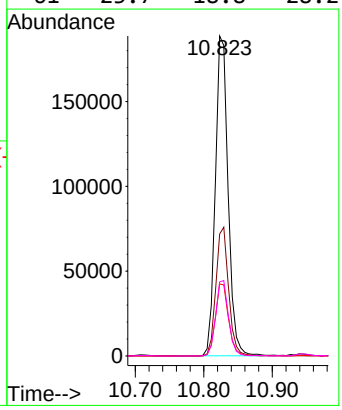


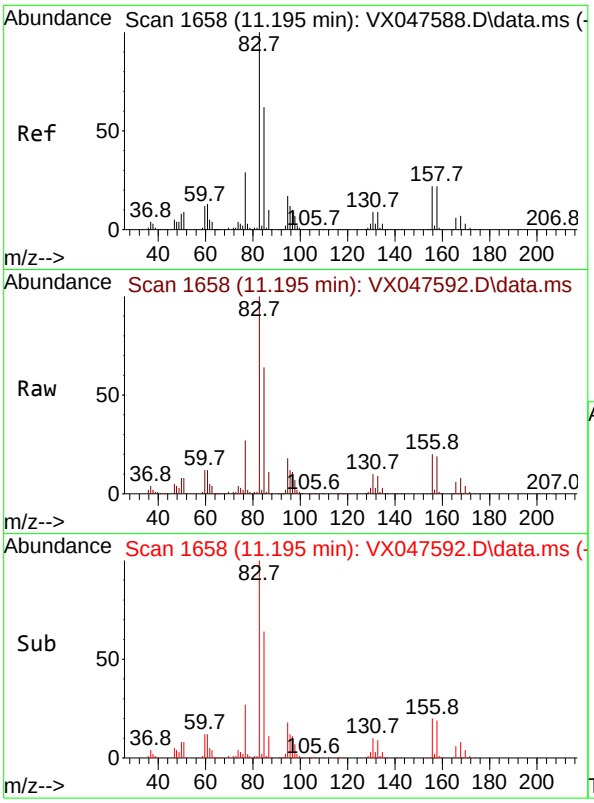


#74
N-amyl acetate
Concen: 50.375 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 243198

Ion	Ratio	Lower	Upper
43	100		
70	40.2	32.0	48.0
55	23.2	18.9	28.3
61	23.7	18.8	28.2



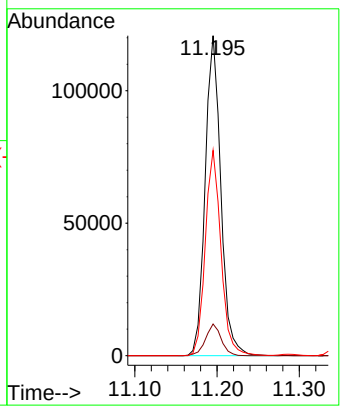


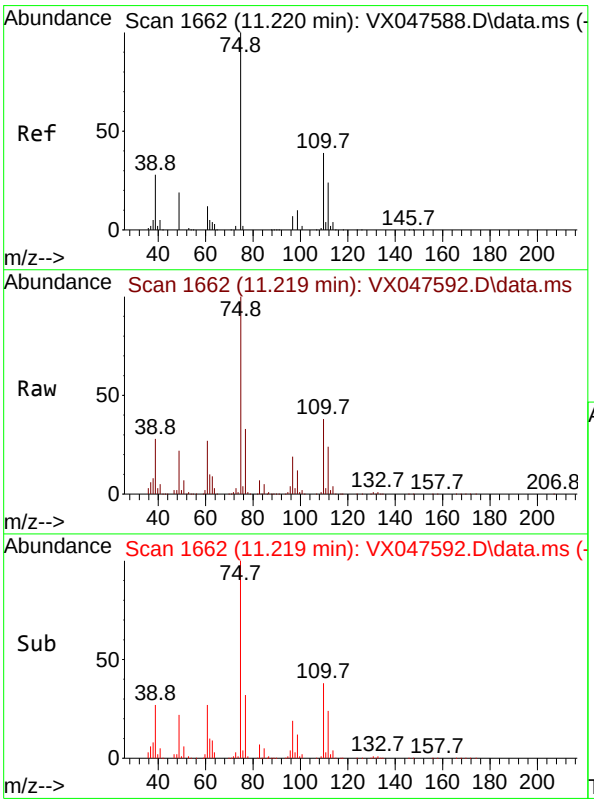
#75
1,1,2,2-Tetrachloroethane
Concen: 49.851 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 83 Resp: 159676

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.2	31.6	95.0

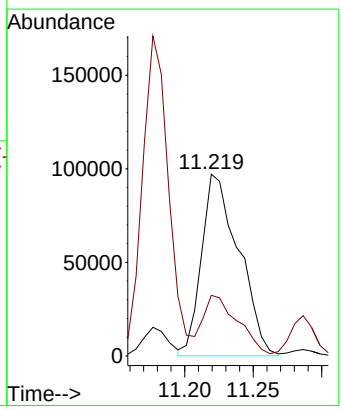


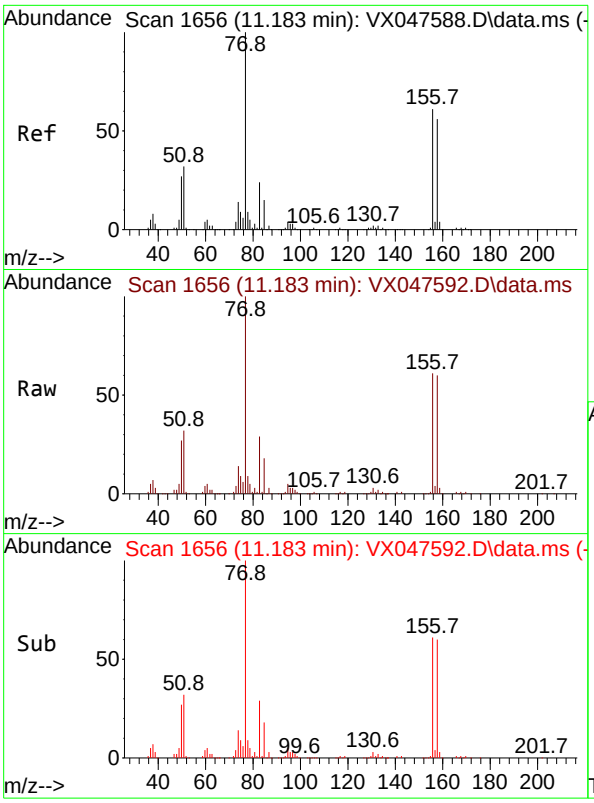


#76
1,2,3-Trichloropropane
Concen: 65.262 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 184000

Ion	Ratio	Lower	Upper
75	100		
77	30.9	18.8	56.4



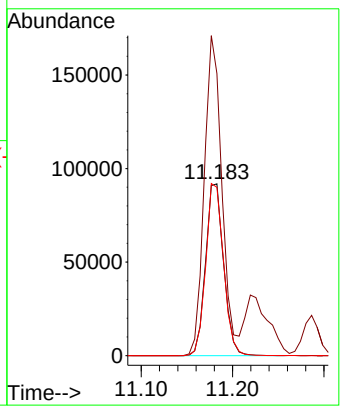


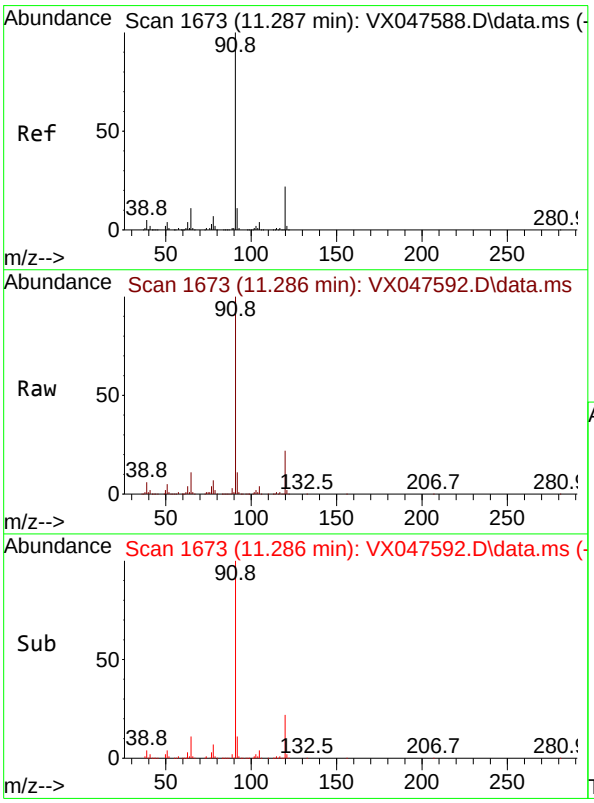
#77
Bromobenzene
Concen: 48.173 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:156 Resp: 125610

Ion	Ratio	Lower	Upper
156	100		
77	182.2	89.7	269.1
158	99.0	47.9	143.6

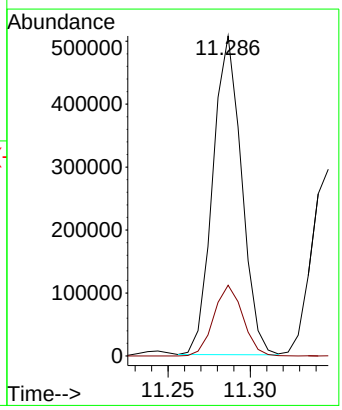


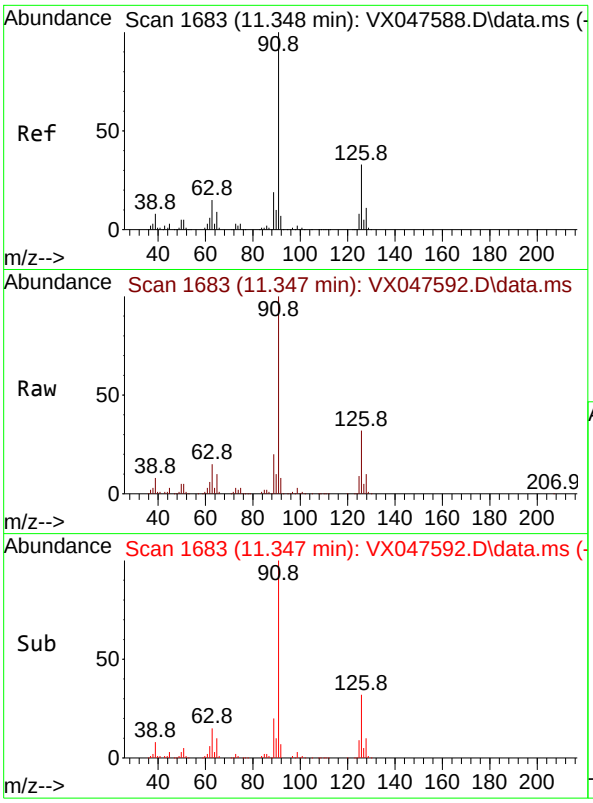


#78
n-propylbenzene
Concen: 49.295 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 616928

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



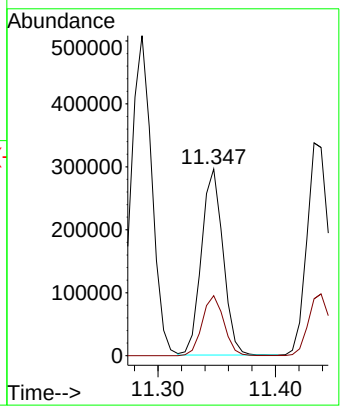


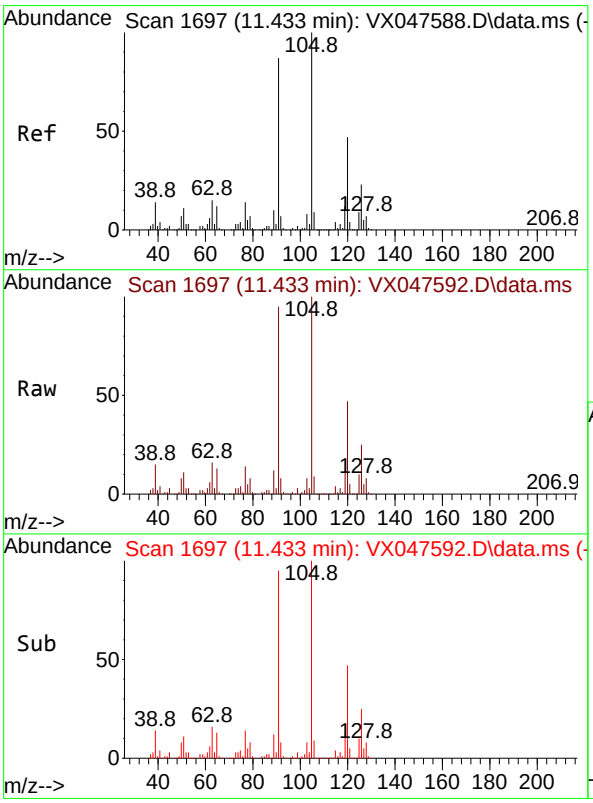
#79
2-Chlorotoluene
Concen: 49.117 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 91 Resp: 376486

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3

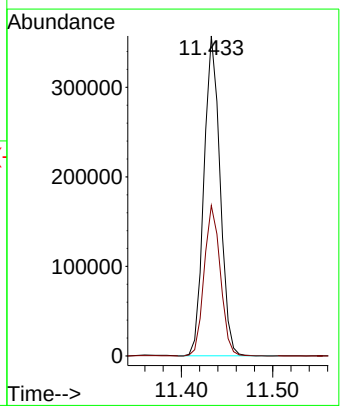


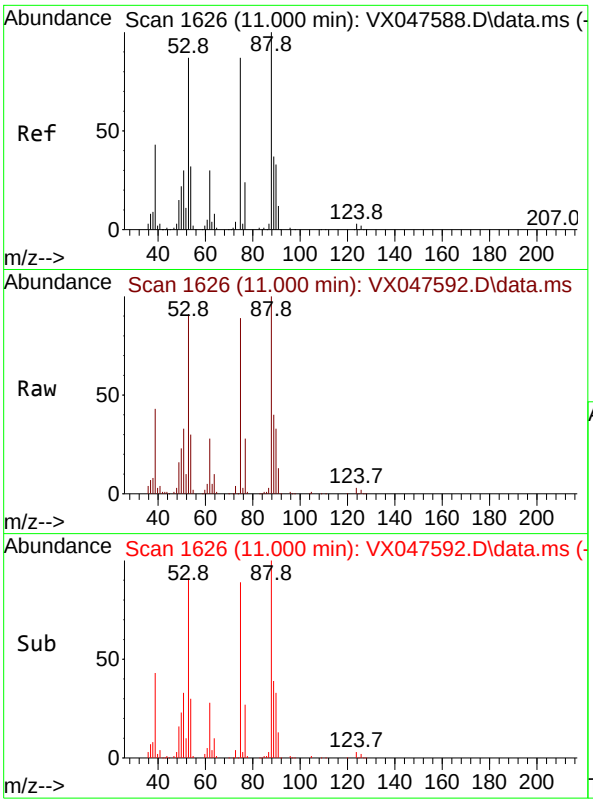


#80
1,3,5-Trimethylbenzene
Concen: 50.055 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 435375

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.6	70.8



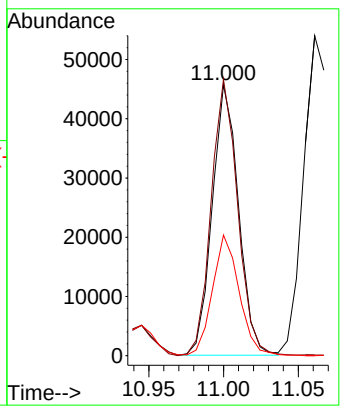


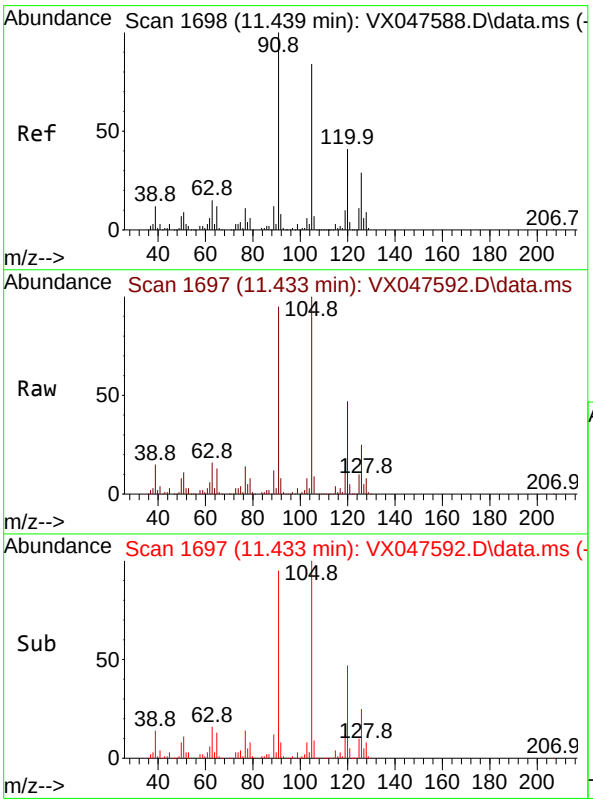
#81
trans-1,4-Dichloro-2-butene
Concen: 50.543 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 75 Resp: 55880

Ion	Ratio	Lower	Upper
75	100		
53	103.4	83.4	125.2
89	45.4	36.3	54.5

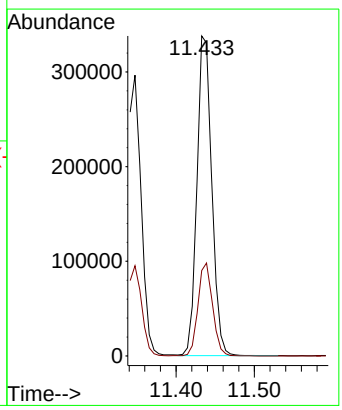


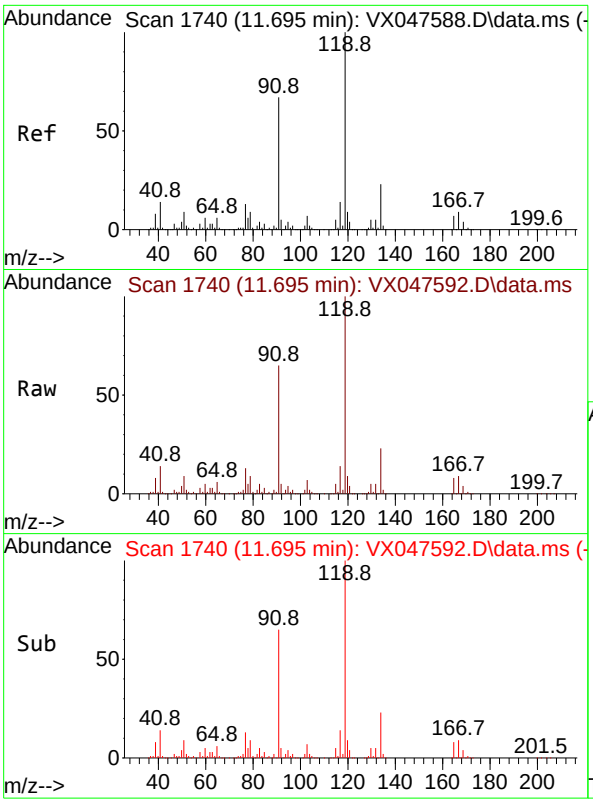


#82
4-Chlorotoluene
Concen: 49.164 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 445075

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6



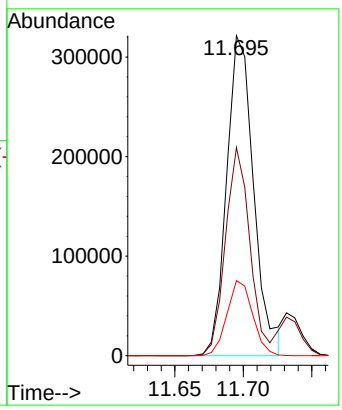


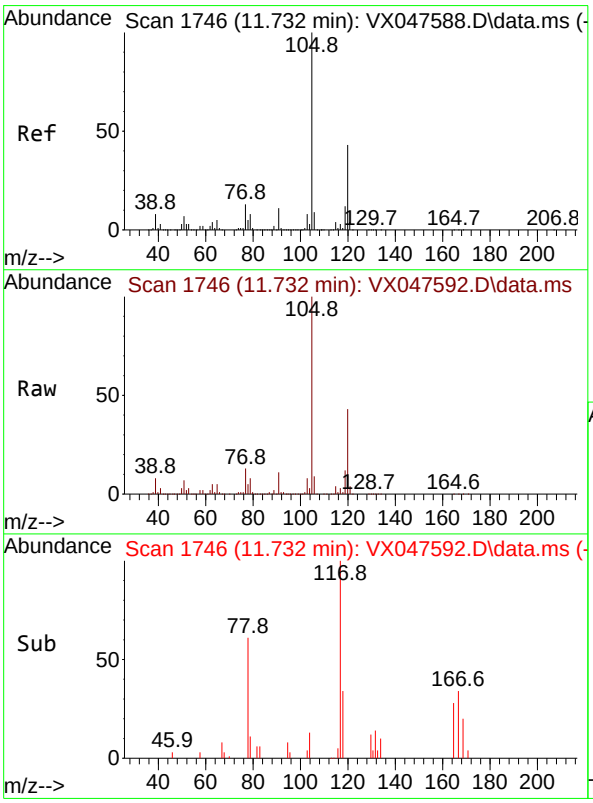
#83
tert-Butylbenzene
Concen: 49.679 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:119 Resp: 442341

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0

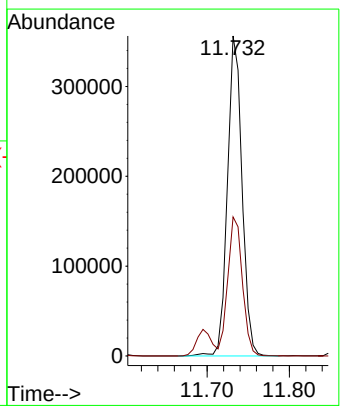


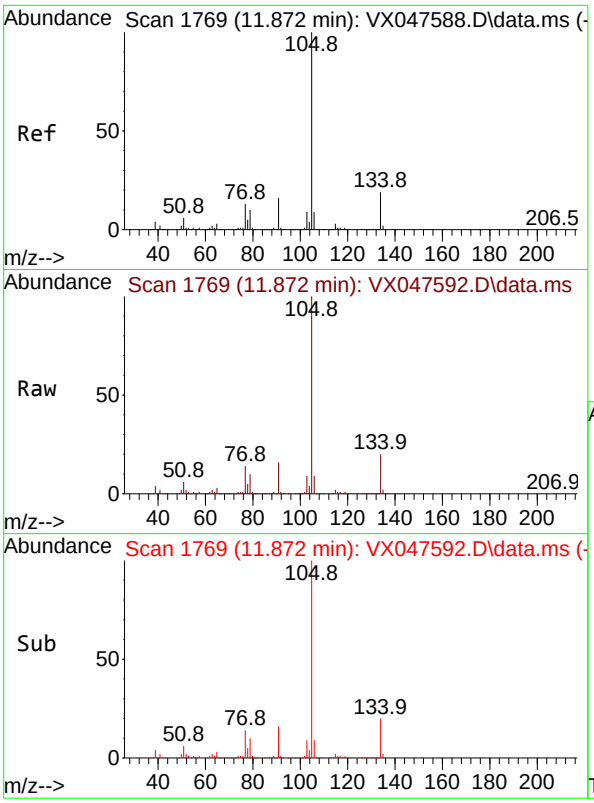


#84
1,2,4-Trimethylbenzene
Concen: 49.911 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 440134

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.1



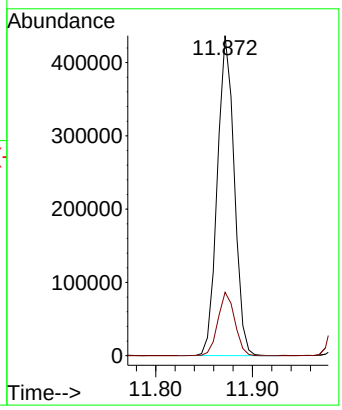


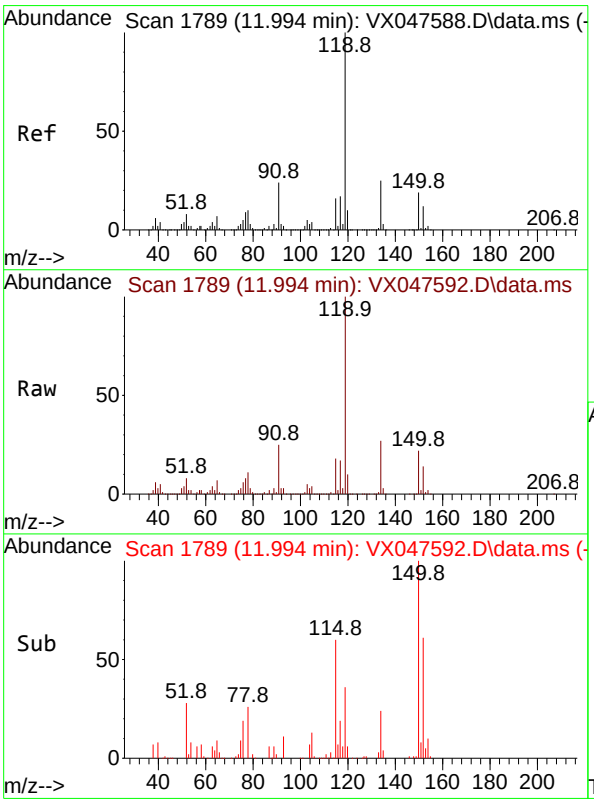
#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:105 Resp: 529869

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

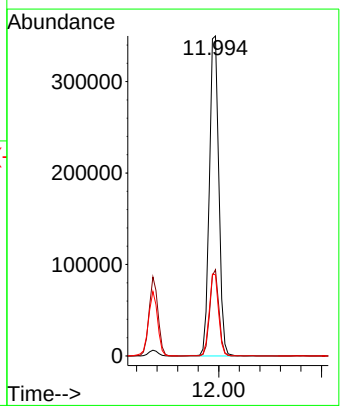


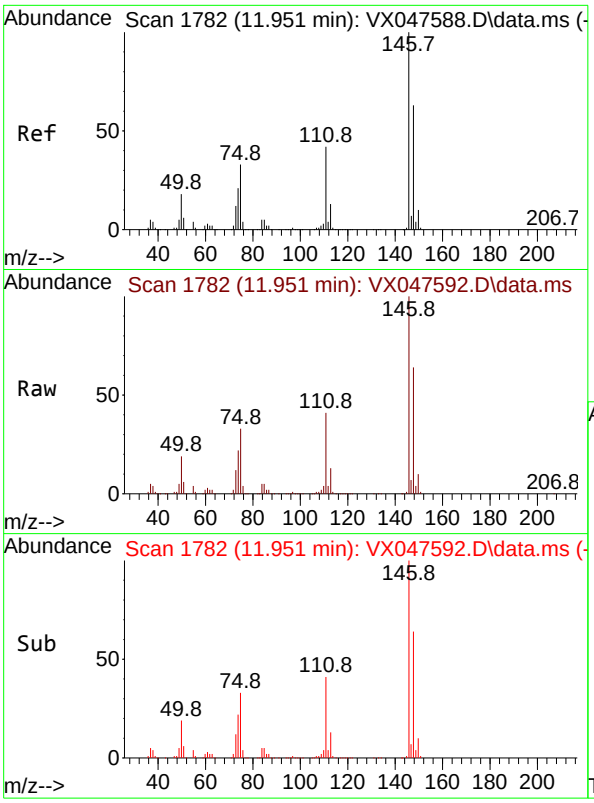


#86
p-Isopropyltoluene
Concen: 49.861 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 446441

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.4	12.6	37.6



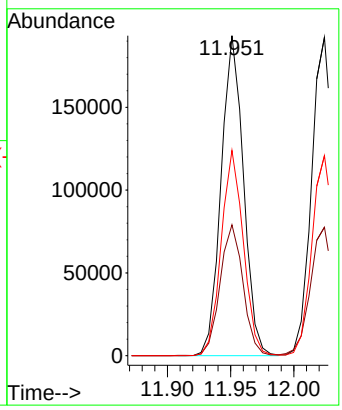


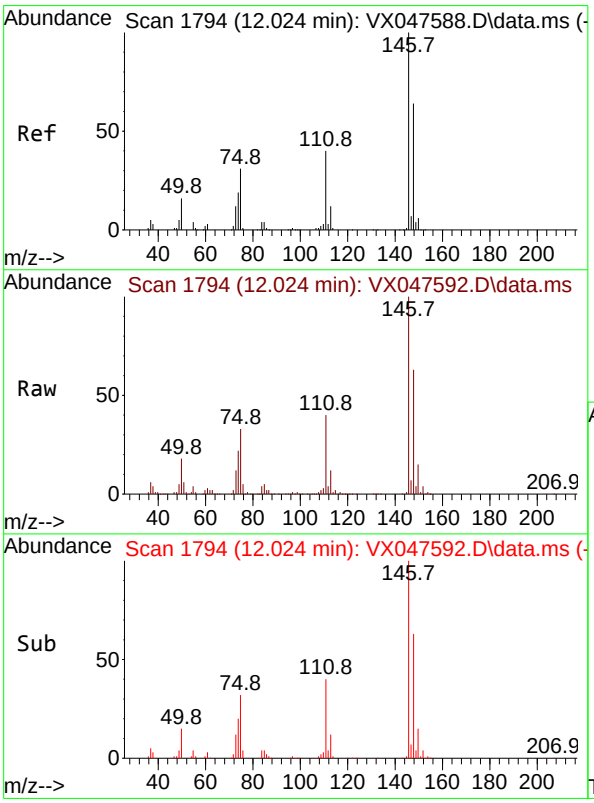
#87
1,3-Dichlorobenzene
Concen: 49.014 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:146 Resp: 237383

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.5	64.5
148	63.5	32.0	96.0

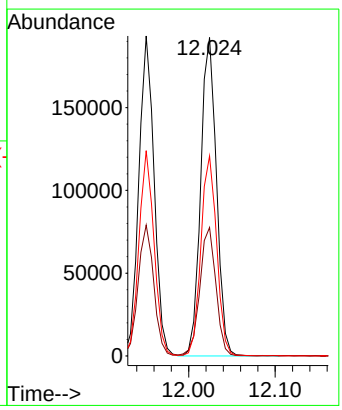


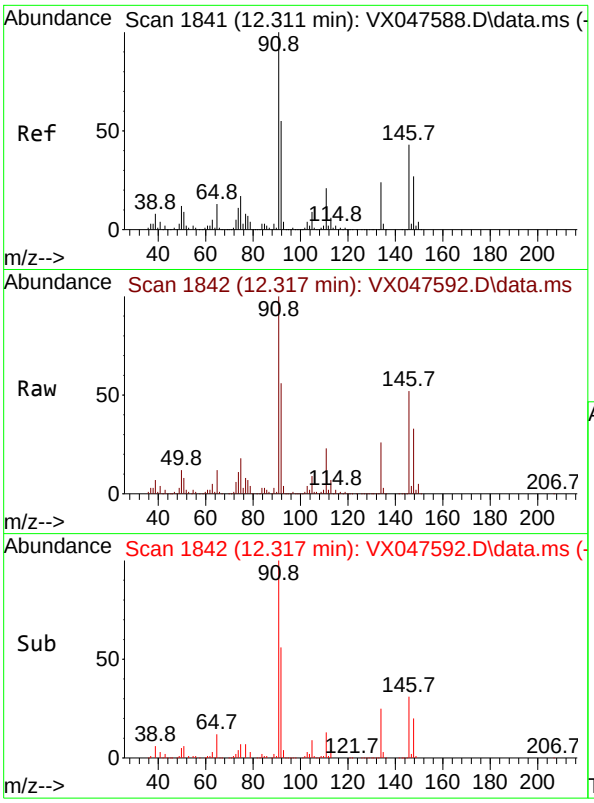


#88
1,4-Dichlorobenzene
Concen: 49.011 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 243618

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	62.7	31.7	95.1



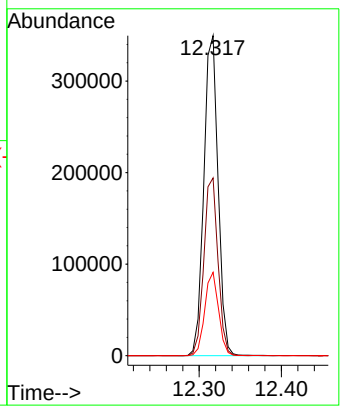


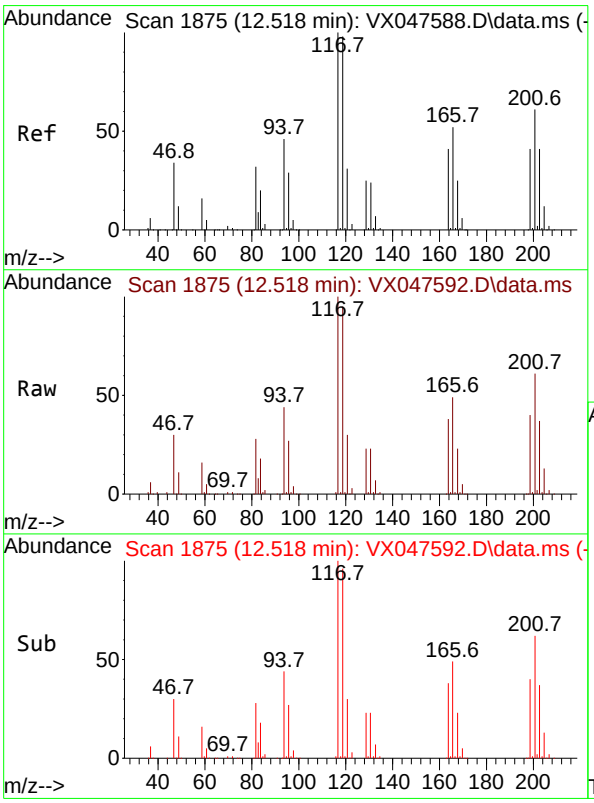
#89
n-Butylbenzene
Concen: 50.752 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 91 Resp: 420478

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.3	12.6	37.8

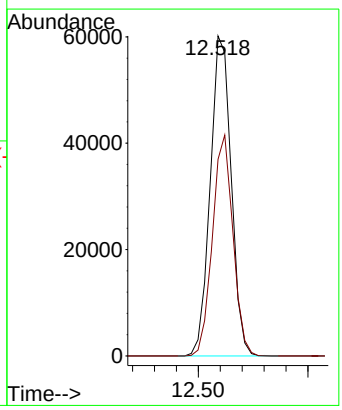


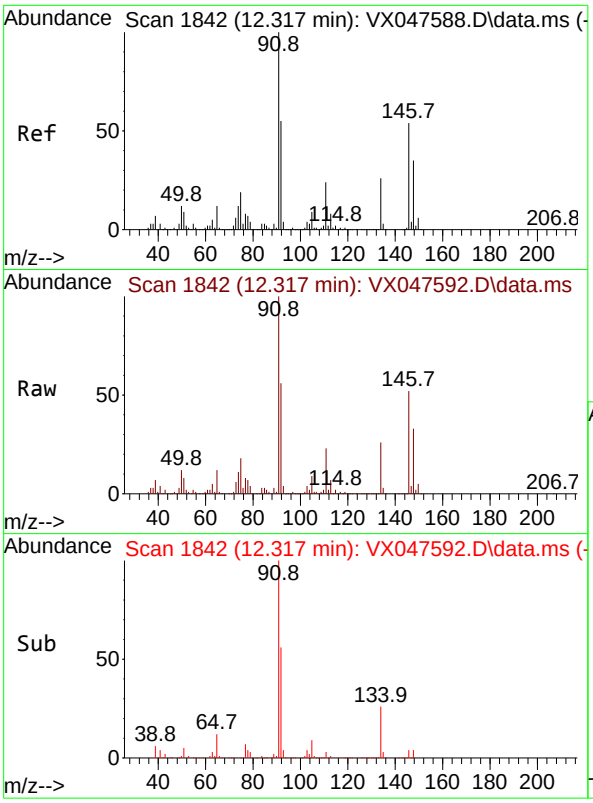


#90
Hexachloroethane
Concen: 50.732 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 79751

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5



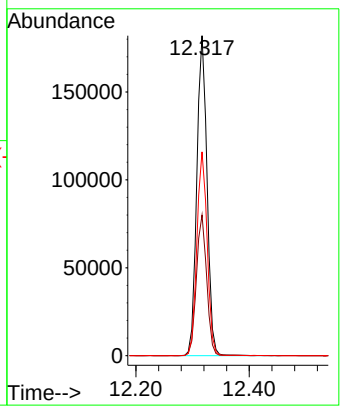


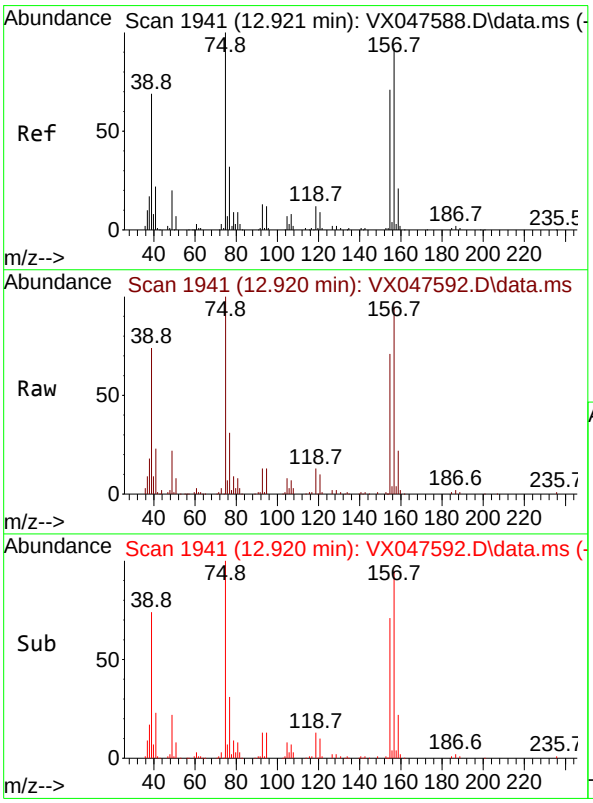
#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:146 Resp: 227493

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	64.1	31.8	95.4

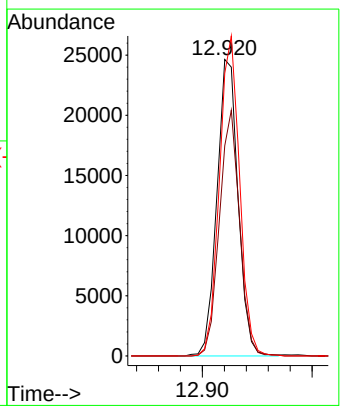


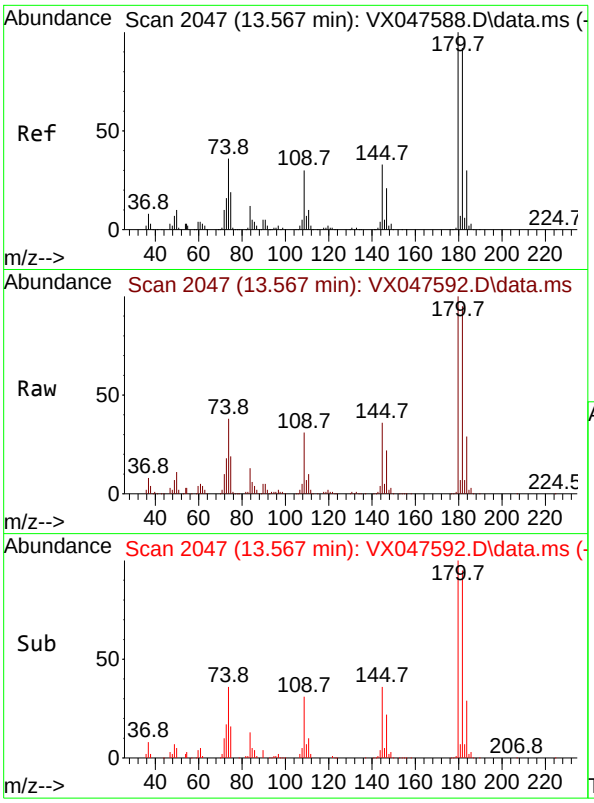


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.918 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 33020

Ion	Ratio	Lower	Upper
75	100		
155	79.1	37.7	113.1
157	103.2	49.8	149.4



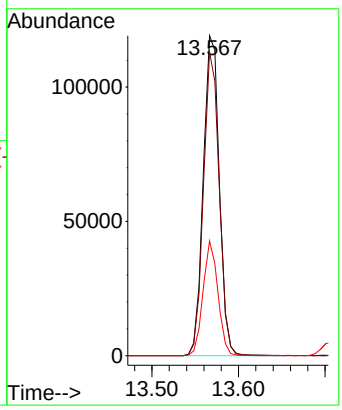


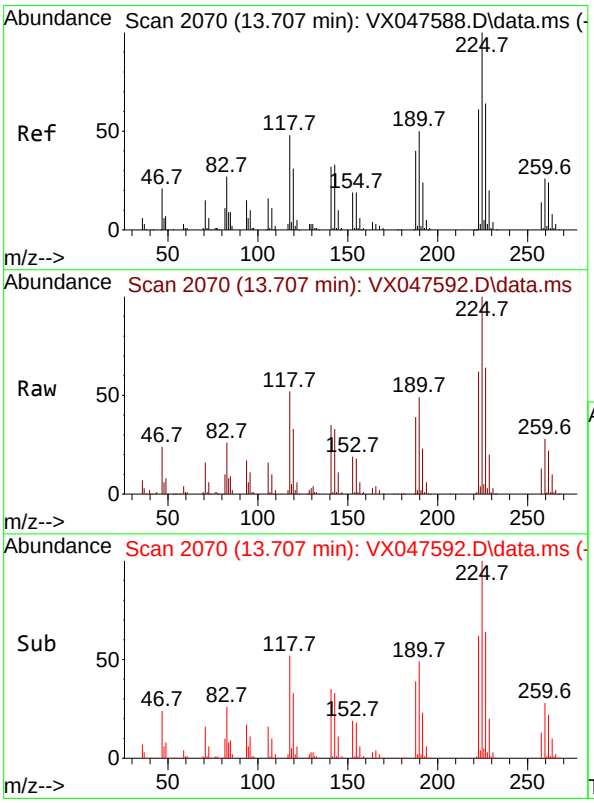
#93
1,2,4-Trichlorobenzene
Concen: 51.133 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:180 Resp: 153333

Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	33.3	16.4	49.1

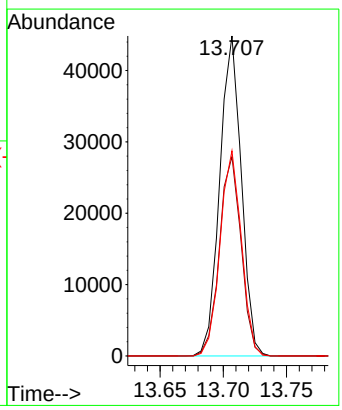


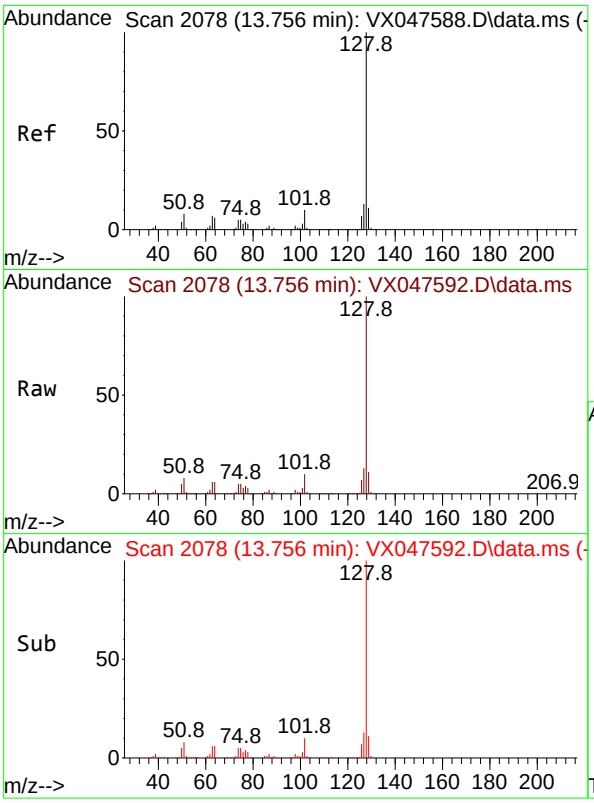


#94
Hexachlorobutadiene
Concen: 52.131 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:225 Resp: 53099

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.7	95.1
227	63.3	32.0	96.0



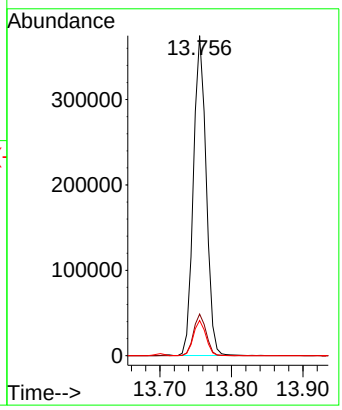


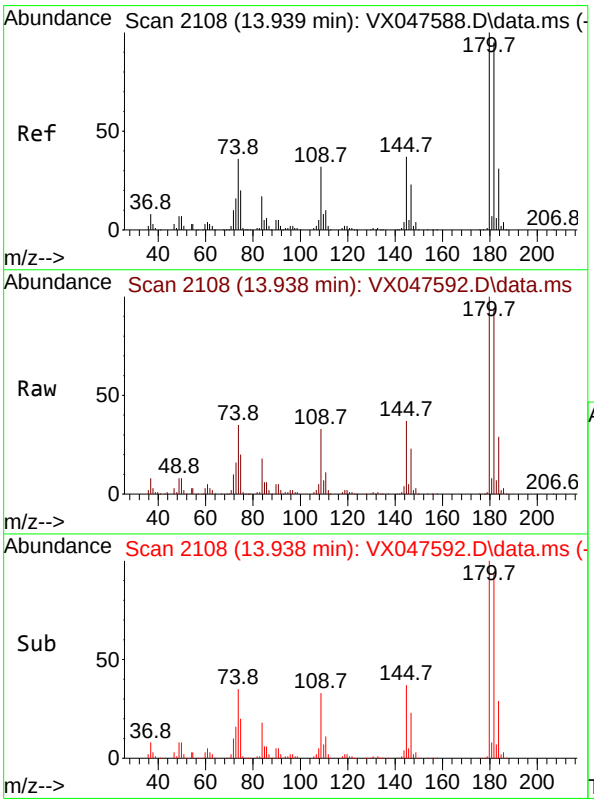
#95
Naphthalene
Concen: 50.836 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:128 Resp: 464206

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2

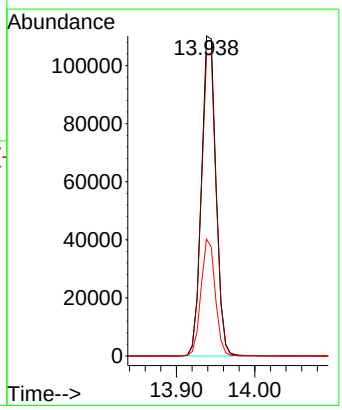




#96
1,2,3-Trichlorobenzene
Concen: 51.054 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 142413

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.6	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	145672	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	265022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	235703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	115061	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	118904	51.280	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.560%			
35) Dibromofluoromethane	5.367	113	93243	52.461	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.920%			
50) Toluene-d8	8.628	98	318085	51.720	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.440%			
62) 4-Bromofluorobenzene	11.061	95	121543	52.073	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	95620	63.389	ug/l	97
3) Chloromethane	1.300	50	117705	59.371	ug/l	100
4) Vinyl Chloride	1.380	62	117260	60.422	ug/l	100
5) Bromomethane	1.617	94	77247	62.771	ug/l	97
6) Chloroethane	1.697	64	74922	57.762	ug/l	99
7) Trichlorofluoromethane	1.892	101	160825	55.813	ug/l	99
8) Diethyl Ether	2.136	74	67493	57.259	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	94692	56.200	ug/l	99
10) Methyl Iodide	2.453	142	152554	58.055	ug/l	100
11) Tert butyl alcohol	2.940	59	63172	244.621	ug/l	99
12) 1,1-Dichloroethene	2.325	96	98672	57.012	ug/l	97
13) Acrolein	2.233	56	67336	282.952	ug/l	97
14) Allyl chloride	2.666	41	195439	54.723	ug/l	98
15) Acrylonitrile	3.056	53	275014	287.505	ug/l	99
16) Acetone	2.373	43	282461	280.166	ug/l	98
17) Carbon Disulfide	2.514	76	276670	58.393	ug/l	99
18) Methyl Acetate	2.697	43	127158	56.673	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	357198	56.537	ug/l	99
20) Methylene Chloride	2.788	84	121247	56.815	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	107940	57.928	ug/l	96
22) Diisopropyl ether	3.751	45	393344	56.829	ug/l	100
23) Vinyl Acetate	3.709	43	1605465	289.816	ug/l	99
24) 1,1-Dichloroethane	3.605	63	207990	56.537	ug/l	99
25) 2-Butanone	4.532	43	347300	276.163	ug/l	98
26) 2,2-Dichloropropane	4.465	77	167410	54.744	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	131508	57.629	ug/l	98
28) Bromochloromethane	4.879	49	89169	55.520	ug/l	99
29) Tetrahydrofuran	4.983	42	207795	274.666	ug/l	99
30) Chloroform	5.074	83	210287	56.566	ug/l	98
31) Cyclohexane	5.458	56	166413	54.312	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	176453	55.958	ug/l	99
36) 1,1-Dichloropropene	5.678	75	136661	52.619	ug/l	98
37) Ethyl Acetate	4.696	43	148064	53.244	ug/l	99
38) Carbon Tetrachloride	5.666	117	148597	52.659	ug/l	96
39) Methylcyclohexane	7.360	83	158624	53.805	ug/l	99
40) Benzene	6.019	78	436446	55.328	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	78988	55.020	ug/l		99
42) 1,2-Dichloroethane	6.068	62	160490	53.472	ug/l		99
43) Isopropyl Acetate	6.318	43	246709	54.094	ug/l		100
44) Trichloroethene	7.104	130	106747	55.974	ug/l		93
45) 1,2-Dichloropropane	7.415	63	112815	55.852	ug/l		100
46) Dibromomethane	7.562	93	81231	55.264	ug/l		97
47) Bromodichloromethane	7.805	83	168096	55.419	ug/l		98
48) Methyl methacrylate	7.671	41	121390	53.434	ug/l		97
49) 1,4-Dioxane	7.641	88	28790	1254.001	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	695707	275.127	ug/l		100
52) Toluene	8.702	92	269293	55.411	ug/l		98
53) t-1,3-Dichloropropene	8.958	75	174332	56.347	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	186621	56.434	ug/l		99
55) 1,1,2-Trichloroethane	9.134	97	104009	55.502	ug/l		99
56) Ethyl methacrylate	9.098	69	167018	56.751	ug/l		97
57) 1,3-Dichloropropane	9.293	76	182551	56.707	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	389211	274.956	ug/l		100
59) 2-Hexanone	9.415	43	495514	272.845	ug/l		99
60) Dibromochloromethane	9.506	129	123071	56.997	ug/l		98
61) 1,2-Dibromoethane	9.592	107	108549	56.870	ug/l		99
64) Tetrachloroethene	9.256	164	83230	54.167	ug/l		98
65) Chlorobenzene	10.061	112	293695	54.848	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.146	131	103750	56.149	ug/l		100
67) Ethyl Benzene	10.177	91	506854	54.859	ug/l		100
68) m/p-Xylenes	10.287	106	380464	110.636	ug/l		99
69) o-Xylene	10.622	106	186157	55.967	ug/l		99
70) Styrene	10.640	104	325724	55.888	ug/l		99
71) Bromoform	10.780	173	78229	56.699	ug/l	#	99
73) Isopropylbenzene	10.945	105	468503	53.558	ug/l		99
74) N-amyl acetate	10.823	43	216957	54.388	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	144143	54.463	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	162179	69.616	ug/l		88
77) Bromobenzene	11.183	156	118485	54.994	ug/l		96
78) n-propylbenzene	11.286	91	557613	53.923	ug/l		99
79) 2-Chlorotoluene	11.347	91	337904	53.352	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	387138	53.867	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	48023	52.569	ug/l		97
82) 4-Chlorotoluene	11.433	91	396717	53.035	ug/l		99
83) tert-Butylbenzene	11.695	119	390632	53.095	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	394502	54.142	ug/l		100
85) sec-Butylbenzene	11.872	105	468381	53.598	ug/l		100
86) p-Isopropyltoluene	11.988	119	395524	53.461	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	217150	54.263	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	217807	53.031	ug/l		99
89) n-Butylbenzene	12.311	91	364819	53.292	ug/l		99
90) Hexachloroethane	12.518	117	70085	53.956	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	210035	55.091	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27679	51.656	ug/l		92
93) 1,2,4-Trichlorobenzene	13.567	180	132366	53.421	ug/l		98
94) Hexachlorobutadiene	13.707	225	44561	52.946	ug/l		99
95) Naphthalene	13.756	128	405500	53.744	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	126908	55.060	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

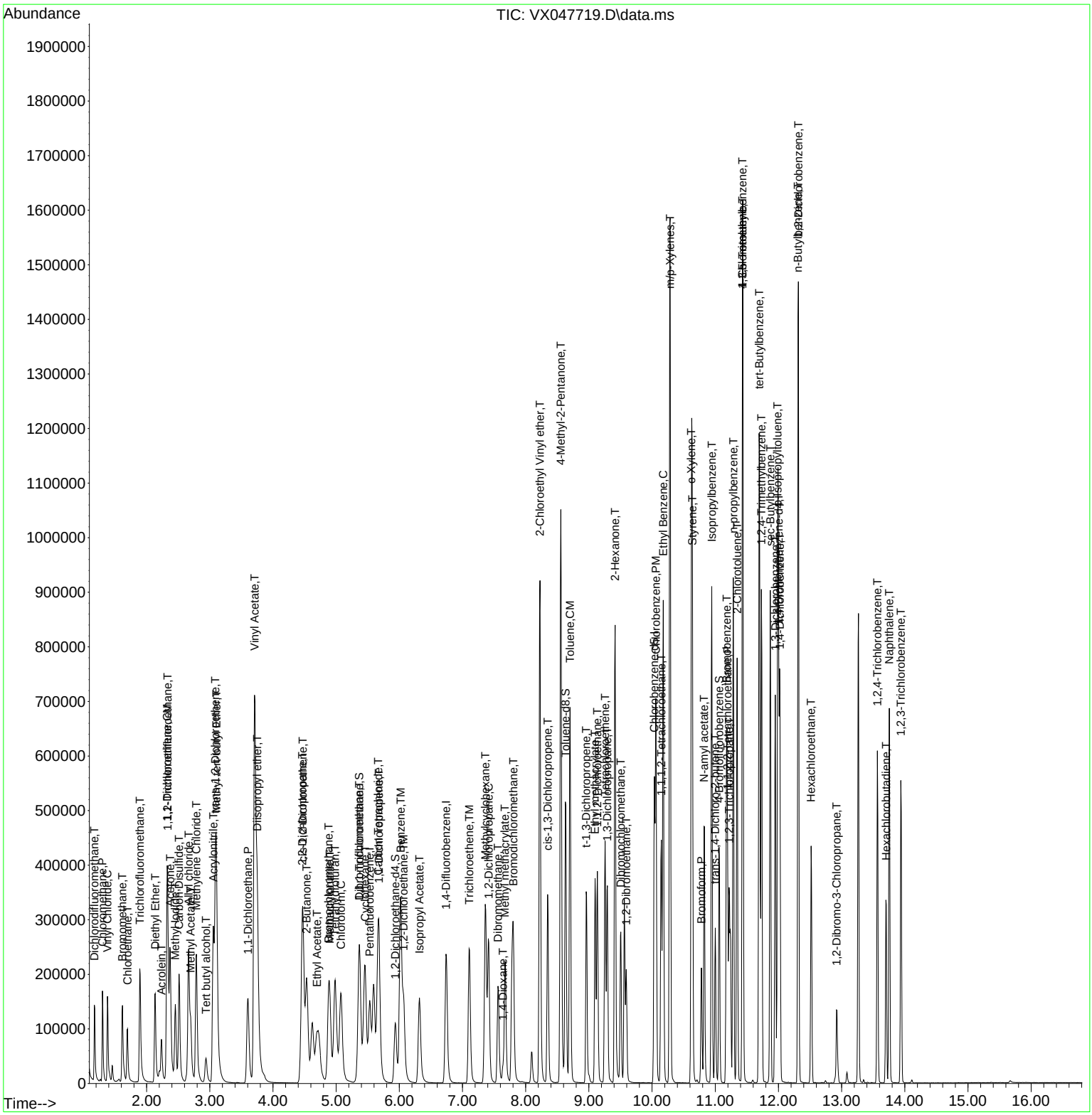
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

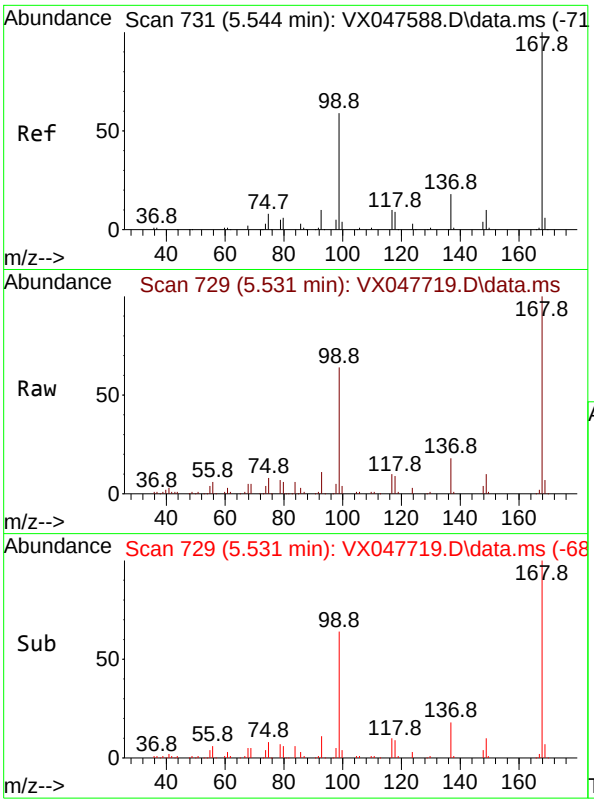
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



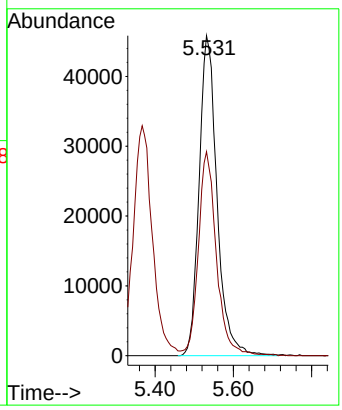


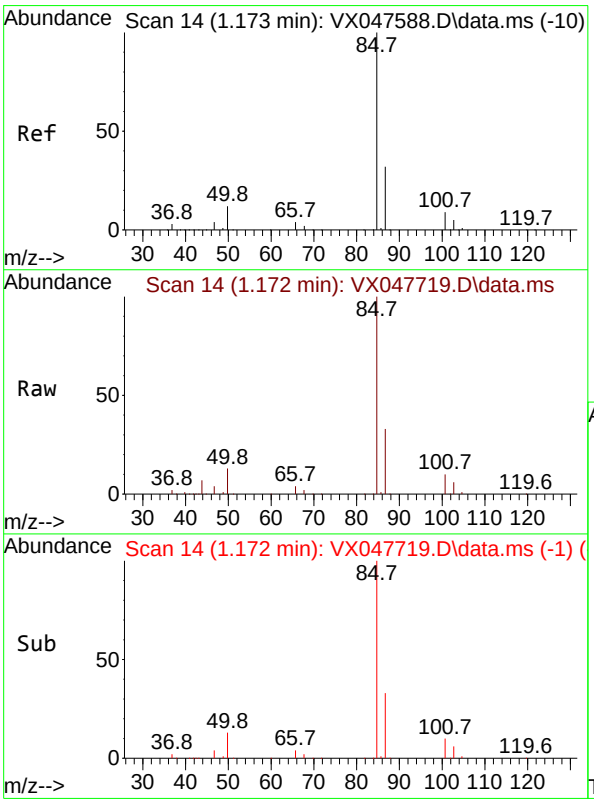
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 145672

Ion	Ratio	Lower	Upper
168	100		
99	63.8	48.8	73.2

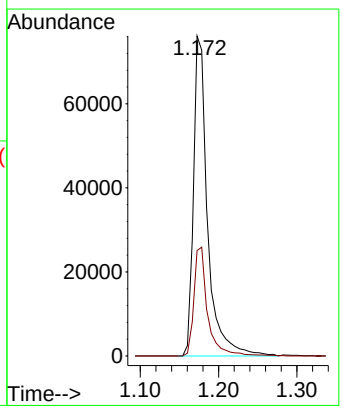


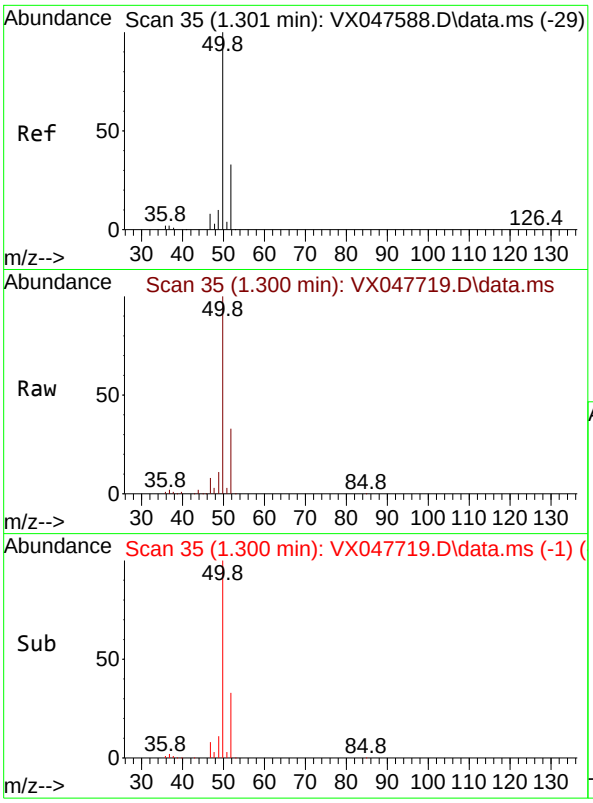


#2
Dichlorodifluoromethane
Concen: 63.389 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 85 Resp: 95620

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



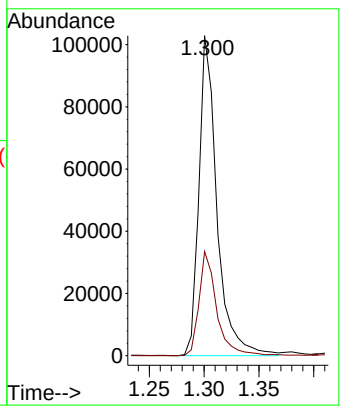


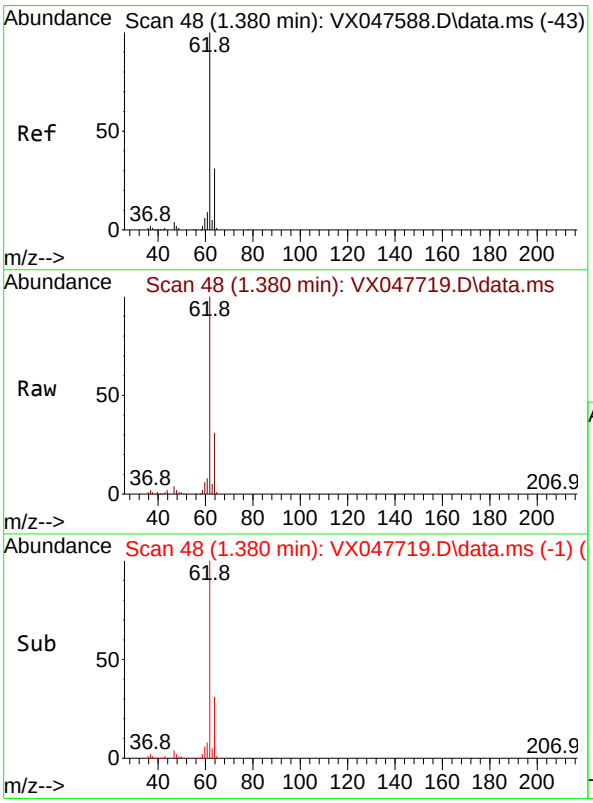
#3
Chloromethane
Concen: 59.371 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 117705

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1

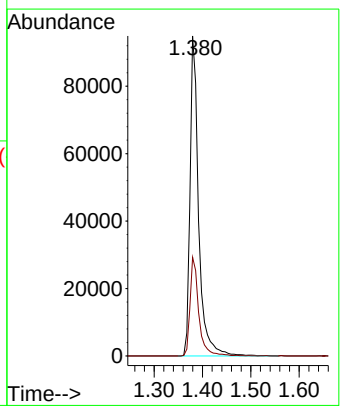


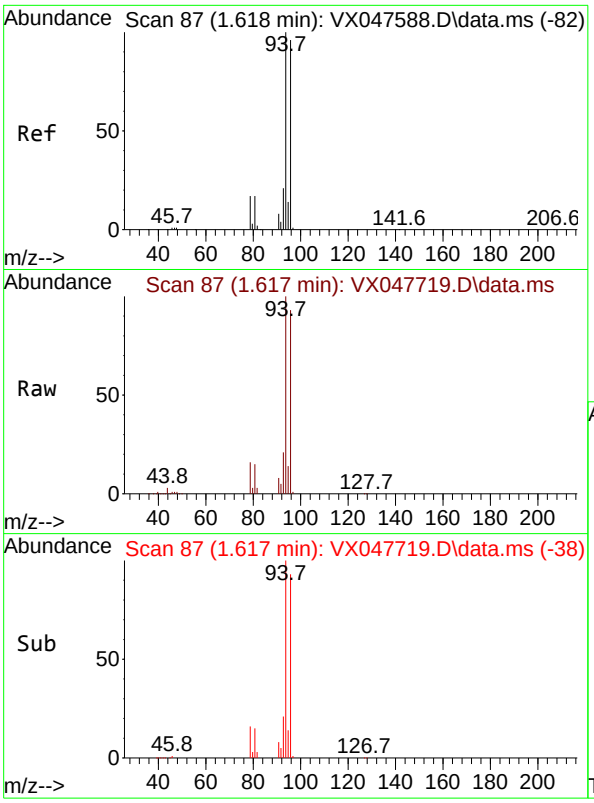


#4
Vinyl Chloride
Concen: 60.422 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 117260

Ion	Ratio	Lower	Upper
62	100		
64	30.8	24.9	37.3



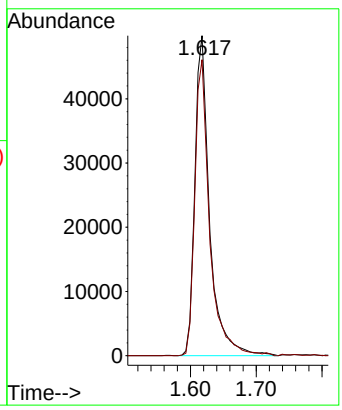


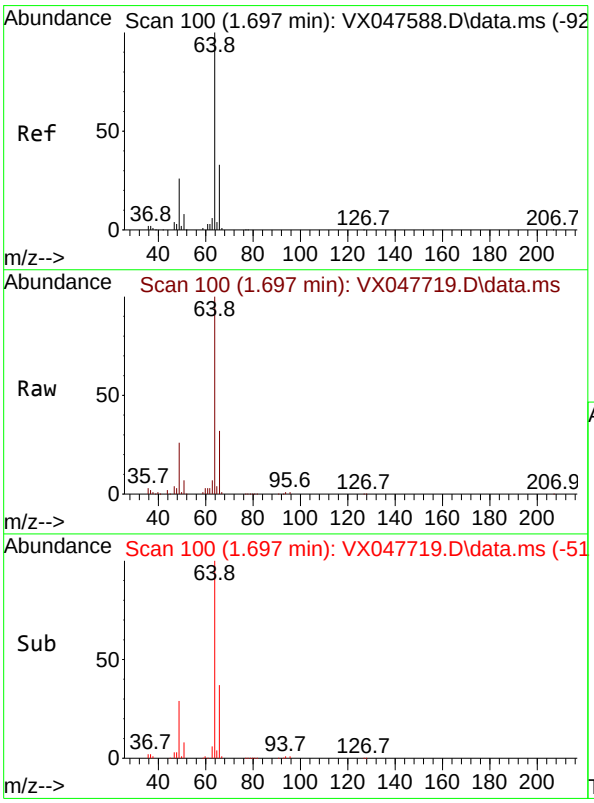
#5
Bromomethane
Concen: 62.771 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 77247

Ion	Ratio	Lower	Upper
94	100		
96	92.5	76.6	115.0

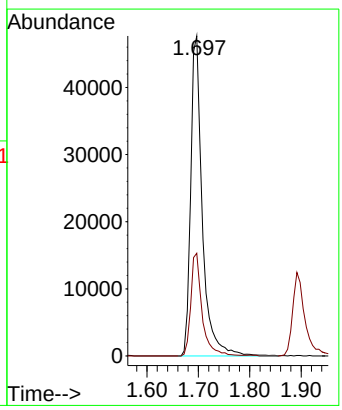


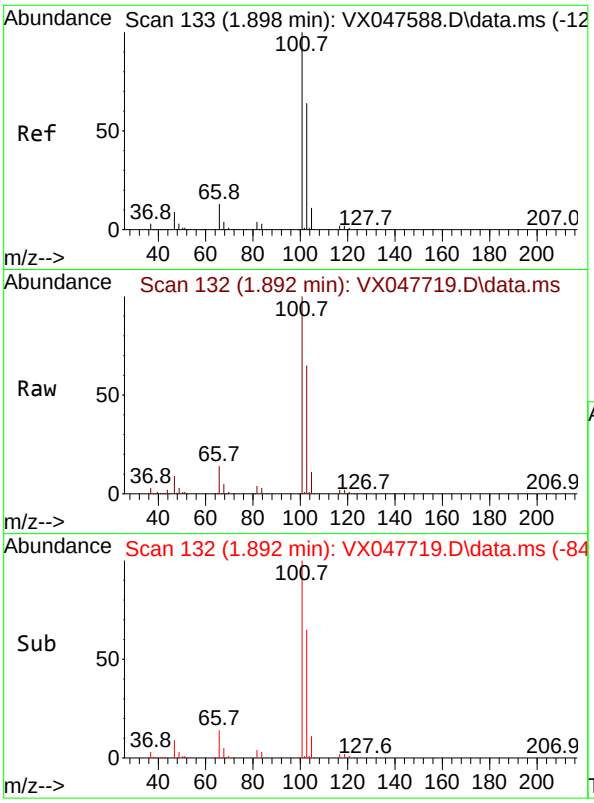


#6
Chloroethane
Concen: 57.762 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 64 Resp: 74922

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1



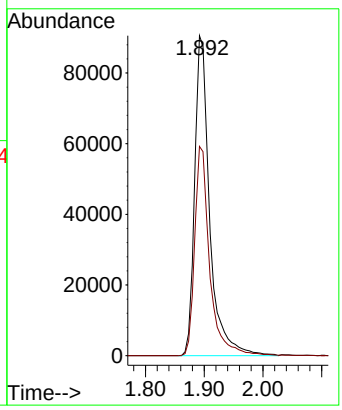


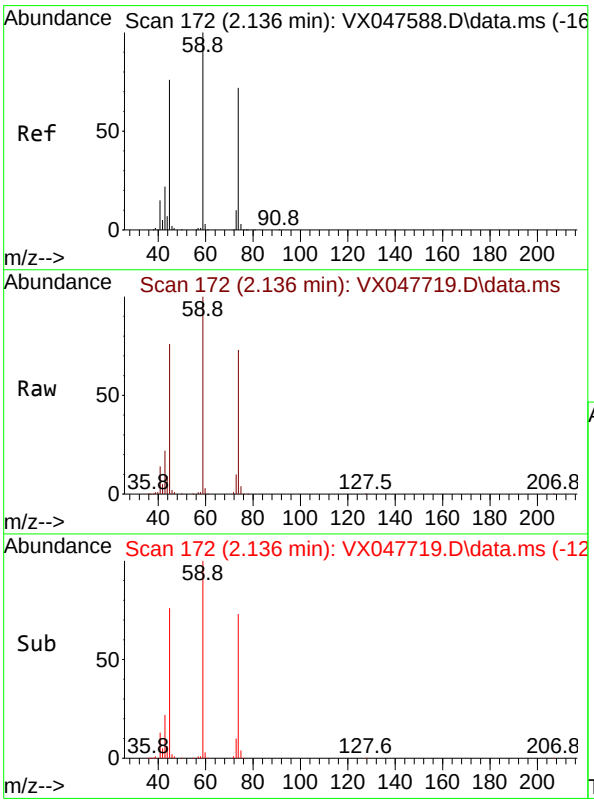
#7
Trichlorofluoromethane
Concen: 55.813 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 160825

Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.2

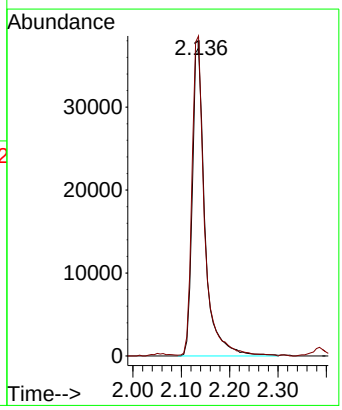


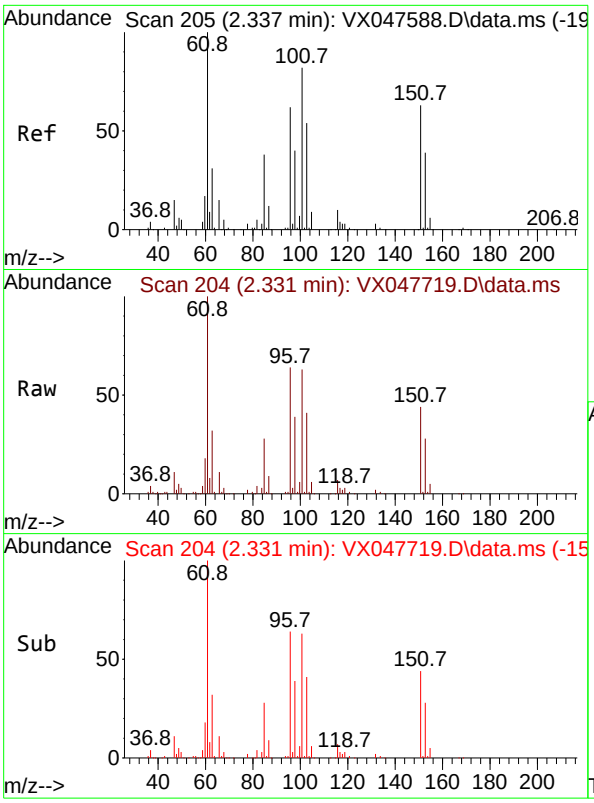


#8
Diethyl Ether
Concen: 57.259 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 74 Resp: 67493

Ion	Ratio	Lower	Upper
74	100		
45	104.1	52.3	156.8



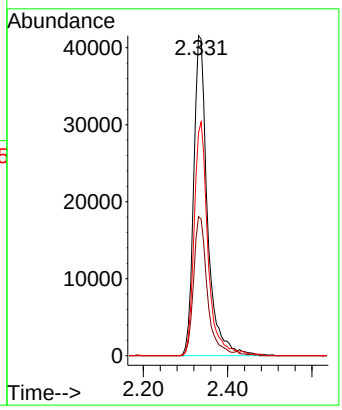


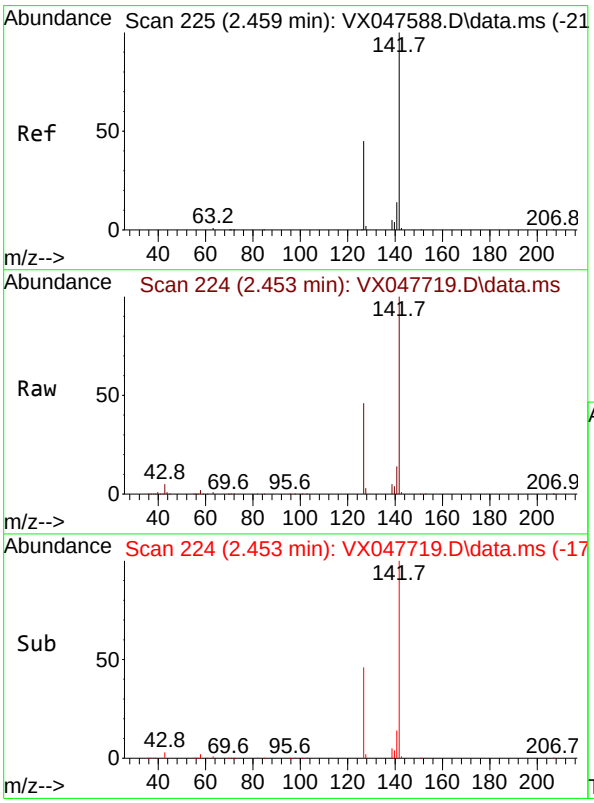
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.200 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 94692

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.5	59.4	89.0

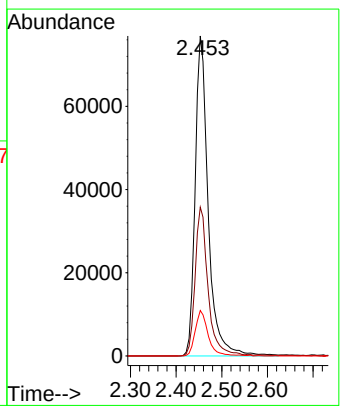


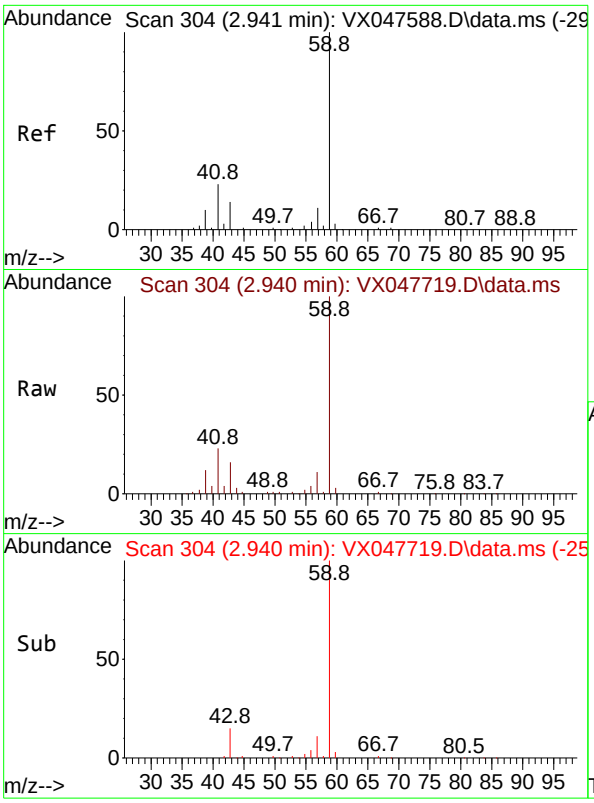


#10
Methyl Iodide
Concen: 58.055 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:142 Resp: 152554

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.2	11.4	17.0



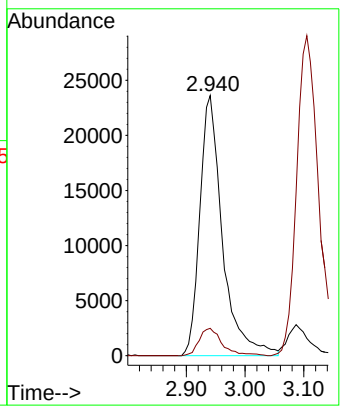


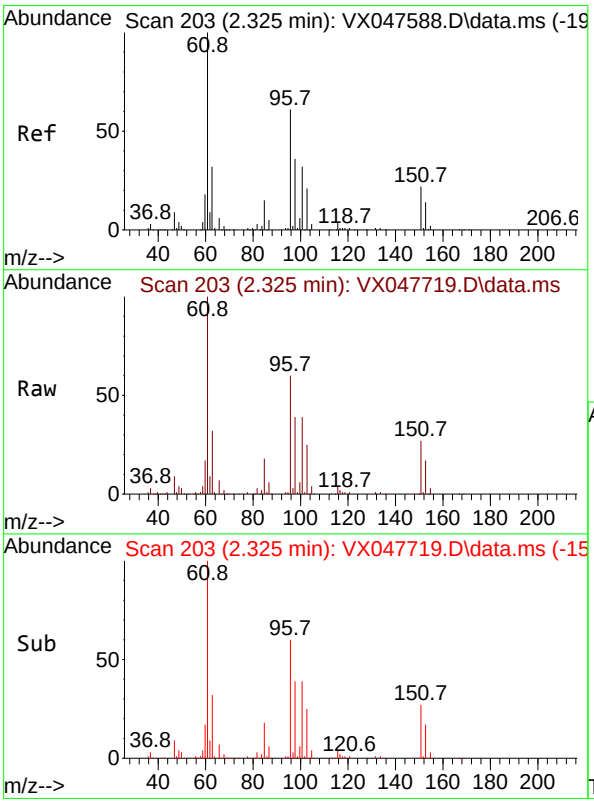
#11
Tert butyl alcohol
Concen: 244.621 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 63172

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5

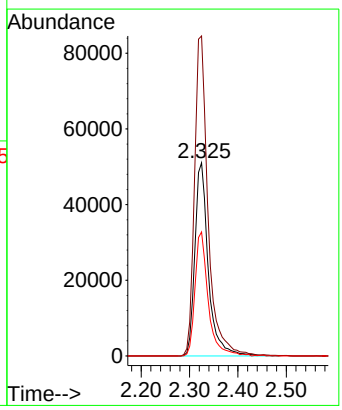


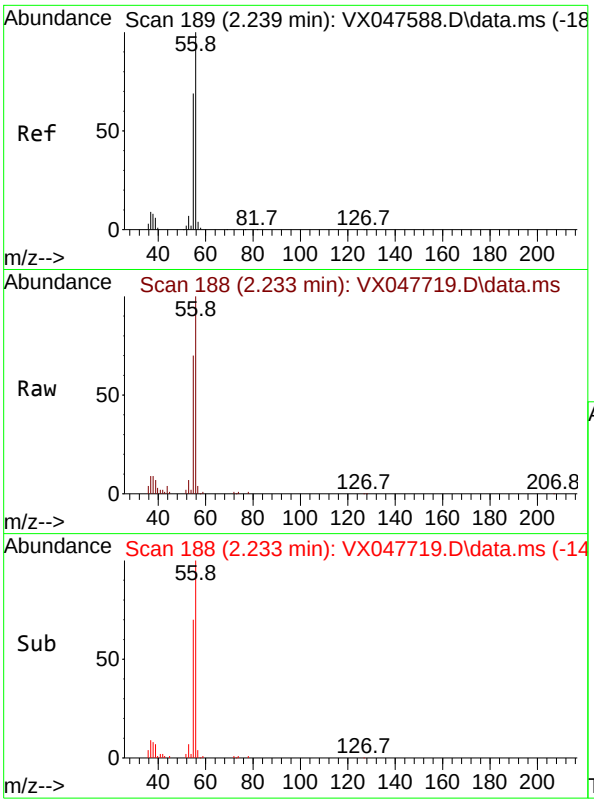


#12
1,1-Dichloroethene
Concen: 57.012 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 98672

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	64.2	47.7	71.5



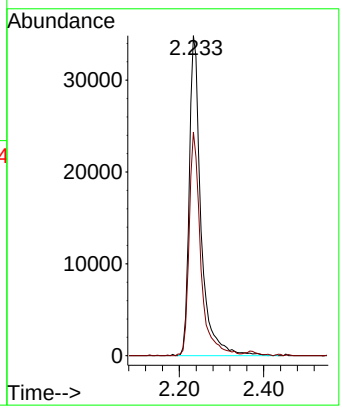


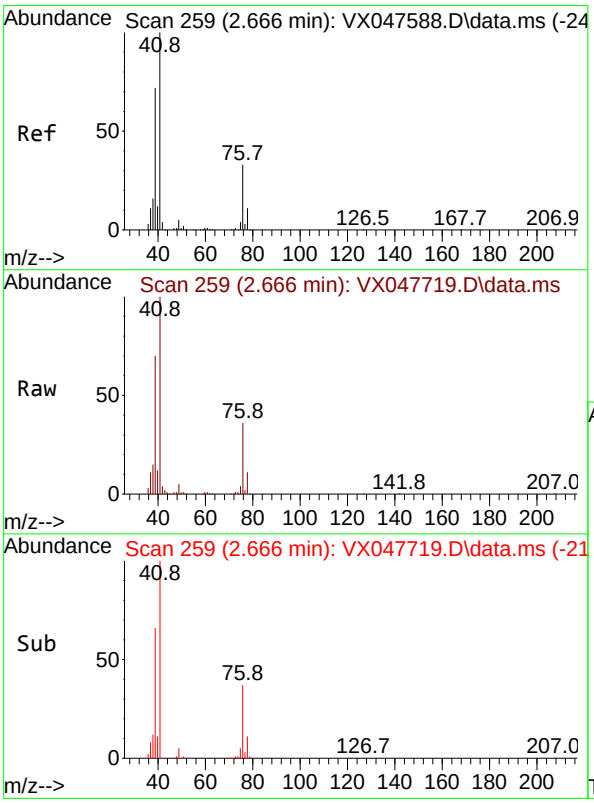
#13
Acrolein
Concen: 282.952 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 67336

Ion	Ratio	Lower	Upper
56	100		
55	69.0	57.2	85.8

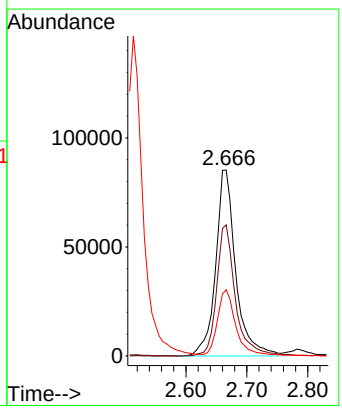


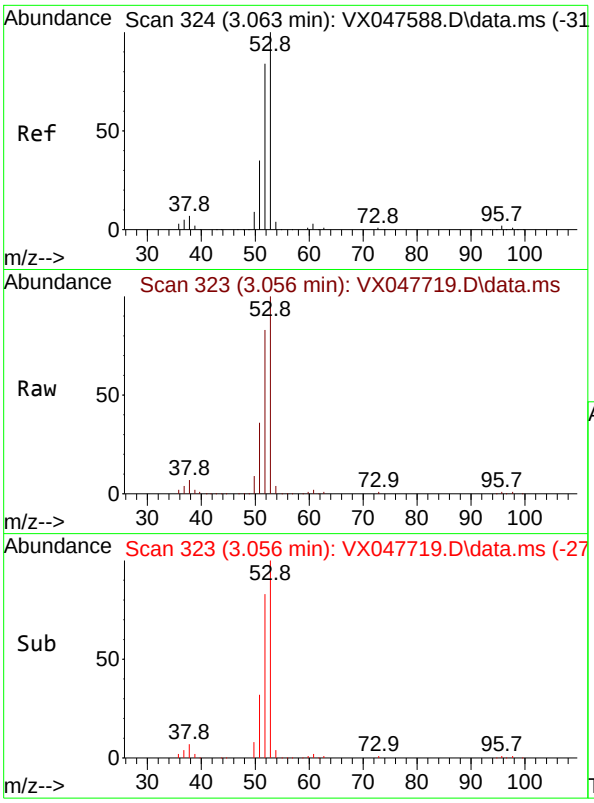


#14
Allyl chloride
Concen: 54.723 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 195439

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.7	82.1
76	32.6	25.7	38.5



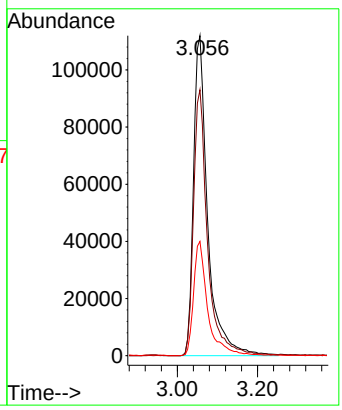


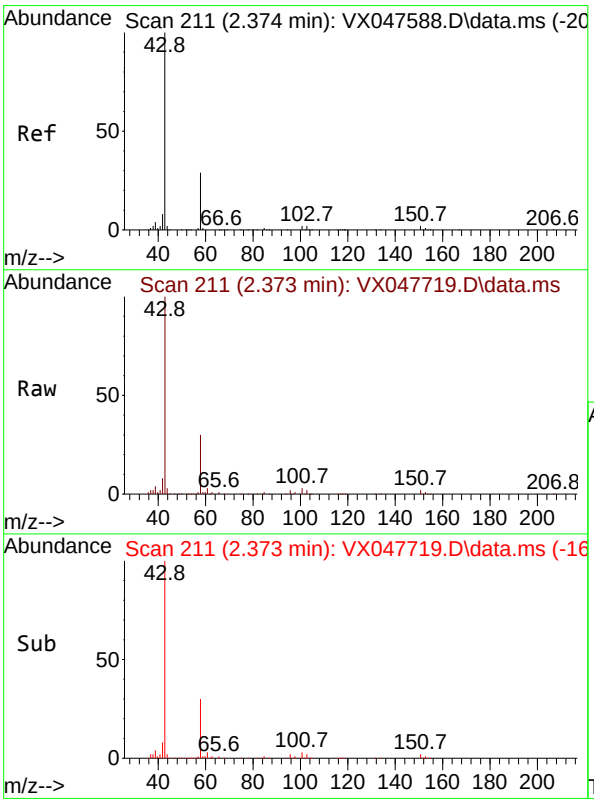
#15
Acrylonitrile
Concen: 287.505 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 275014

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	35.8	29.5	44.3

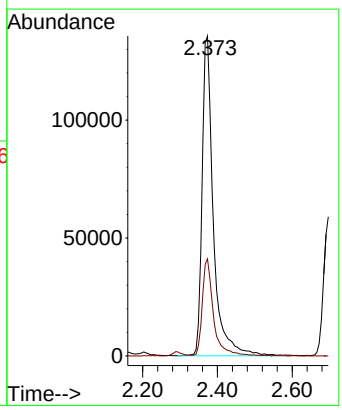


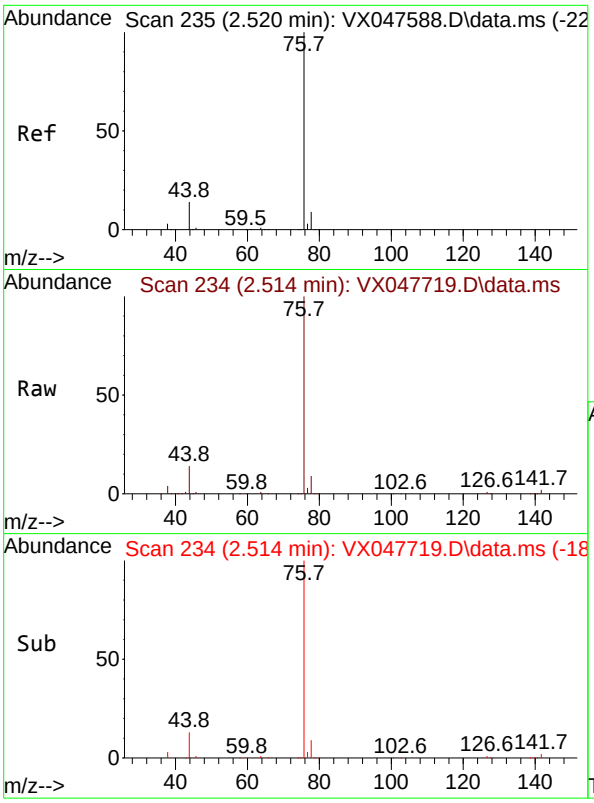


#16
Acetone
Concen: 280.166 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 282461

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0



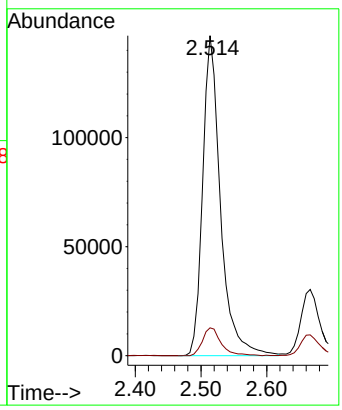


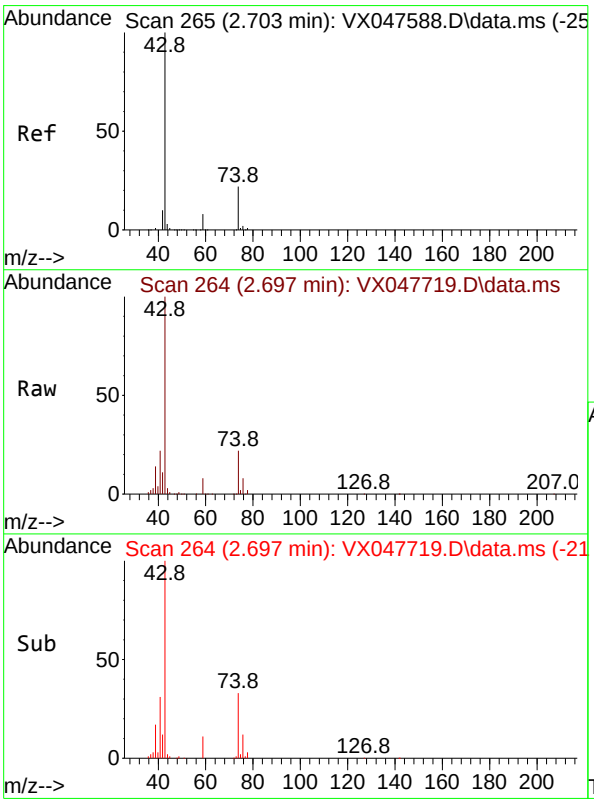
#17
Carbon Disulfide
Concen: 58.393 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 276670

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2

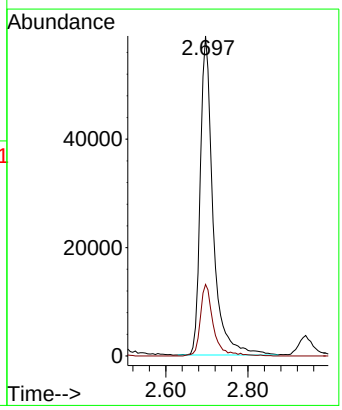


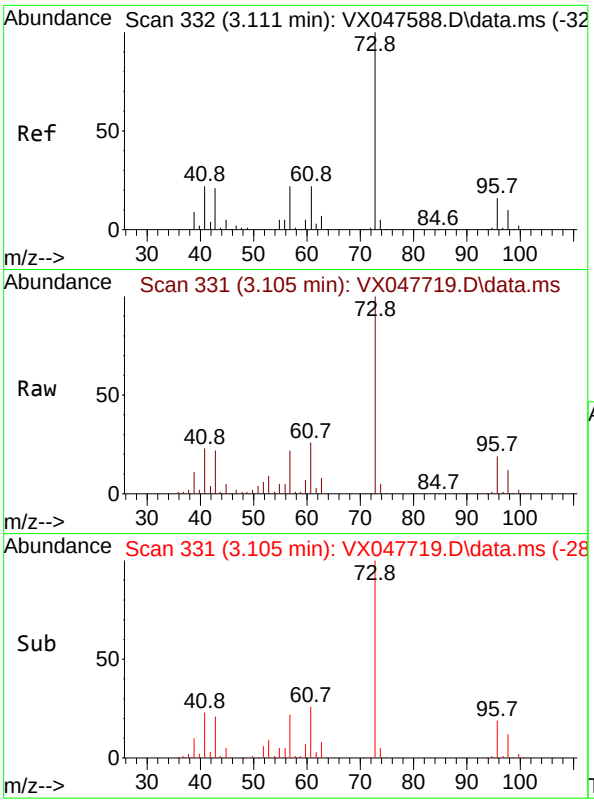


#18
Methyl Acetate
Concen: 56.673 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 127158

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



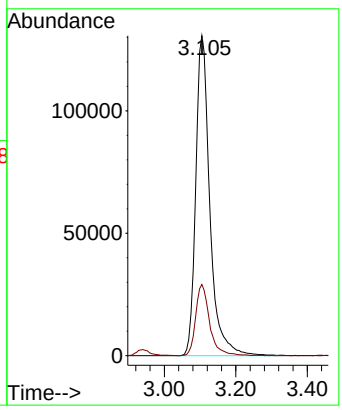


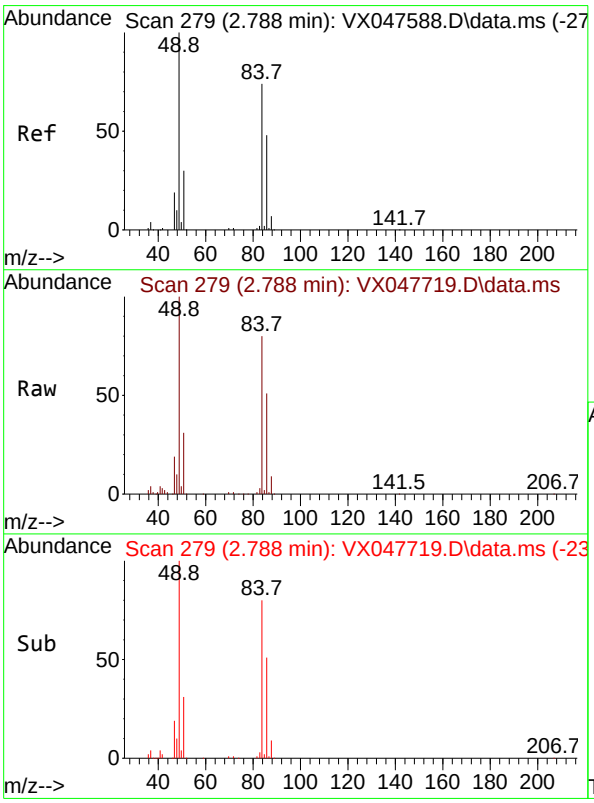
#19
Methyl tert-butyl Ether
Concen: 56.537 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 357198

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2

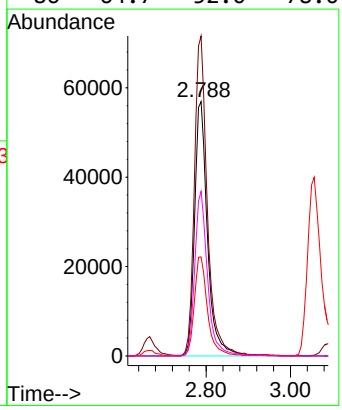


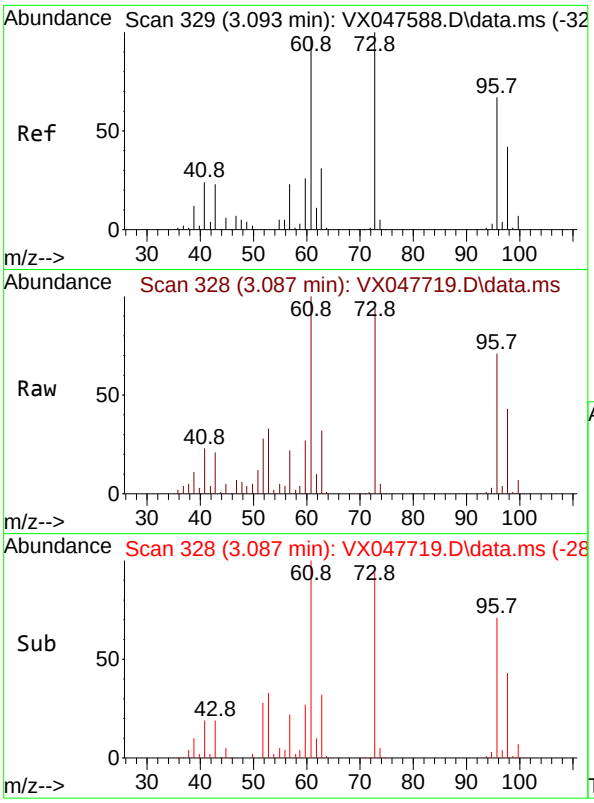


#20
Methylene Chloride
Concen: 56.815 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 84 Resp: 121247

Ion	Ratio	Lower	Upper
84	100		
49	125.5	108.6	162.8
51	38.9	32.6	48.8
86	64.7	52.0	78.0



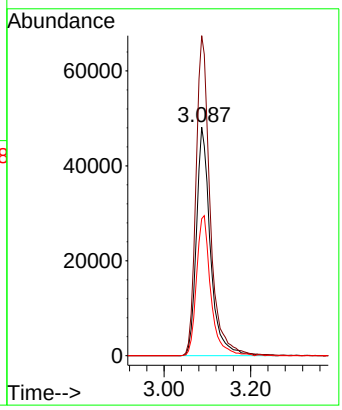


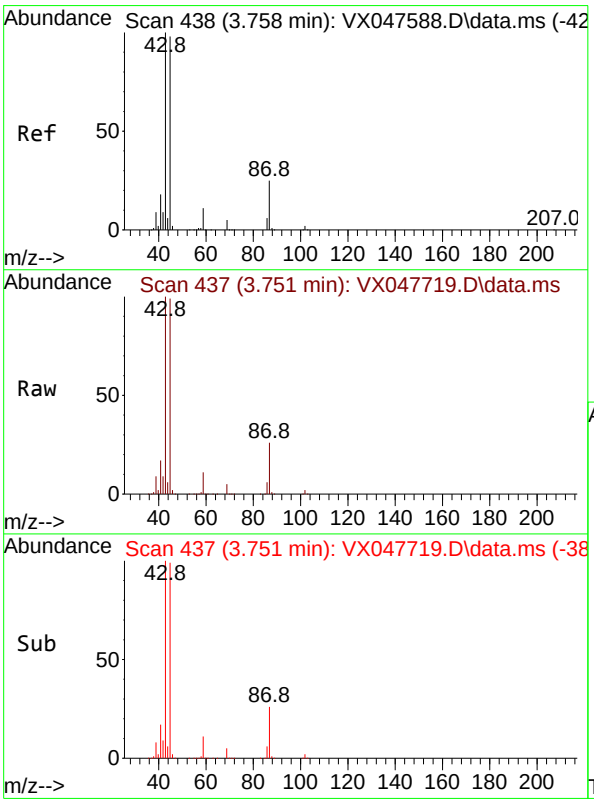
#21
trans-1,2-Dichloroethene
Concen: 57.928 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 107940

Ion	Ratio	Lower	Upper
96	100		
61	140.0	116.2	174.2
98	59.9	49.3	73.9

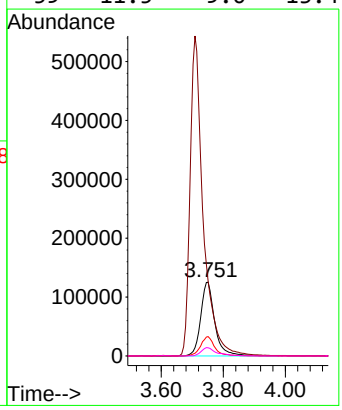


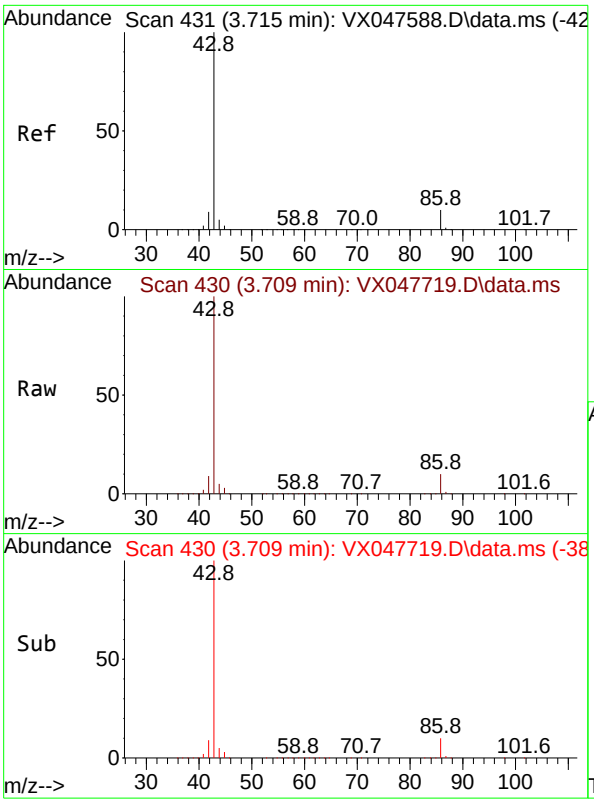


#22
Diisopropyl ether
Concen: 56.829 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 45 Resp: 393344

Ion	Ratio	Lower	Upper
45	100		
43	101.4	81.0	121.4
87	26.1	20.3	30.5
59	11.5	9.0	13.4



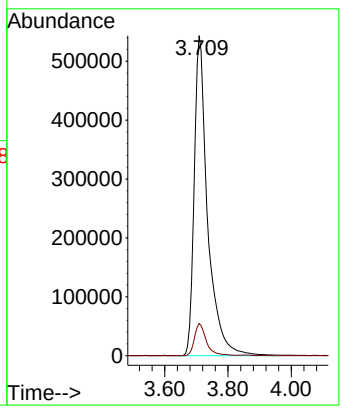


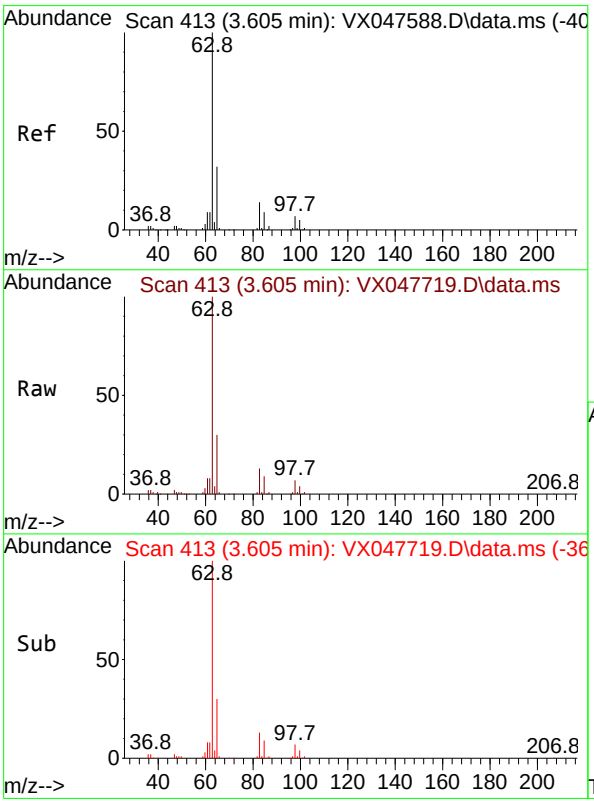
#23
Vinyl Acetate
Concen: 289.816 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1605465

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8

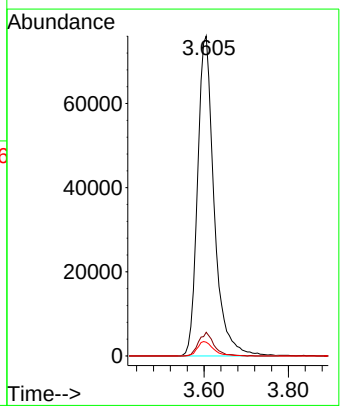


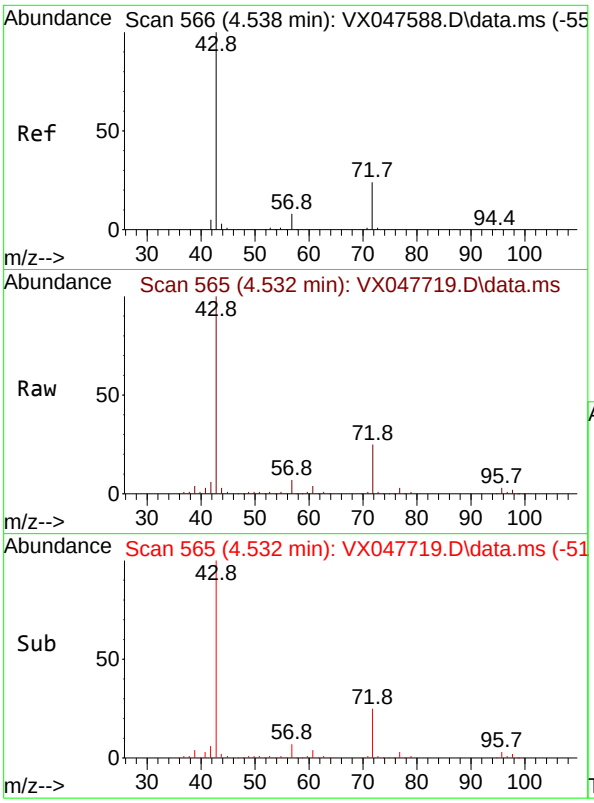


#24
1,1-Dichloroethane
Concen: 56.537 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 207990

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.3	2.3	6.9



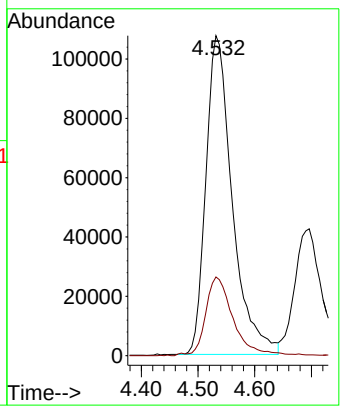


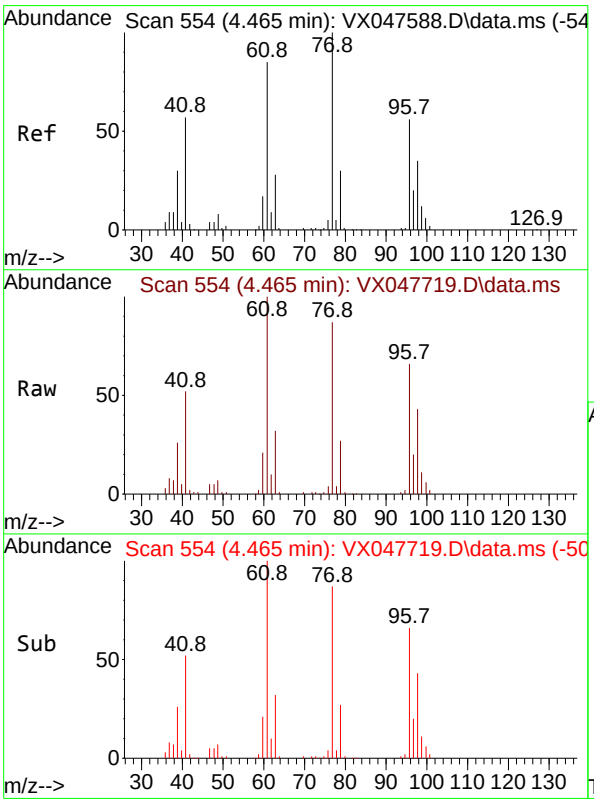
#25
2-Butanone
Concen: 276.163 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 347300

Ion	Ratio	Lower	Upper
43	100		
72	23.9	20.1	30.1

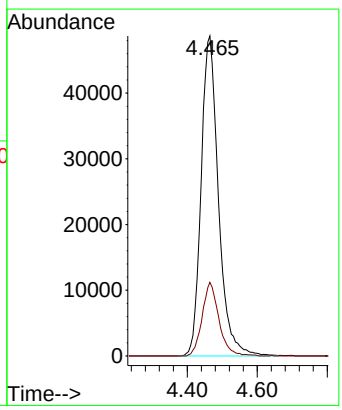


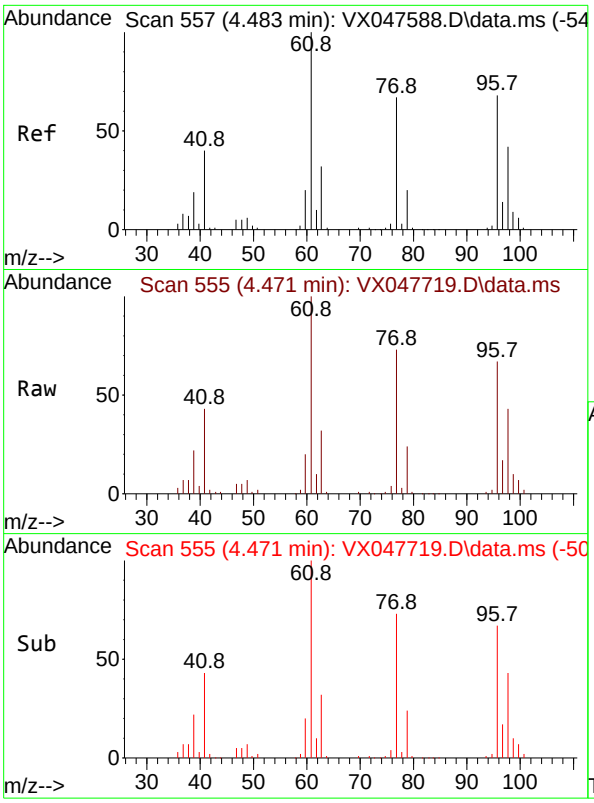


#26
2,2-Dichloropropane
Concen: 54.744 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 77 Resp: 167410

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.9	32.7



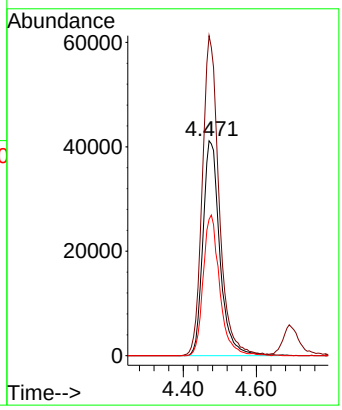


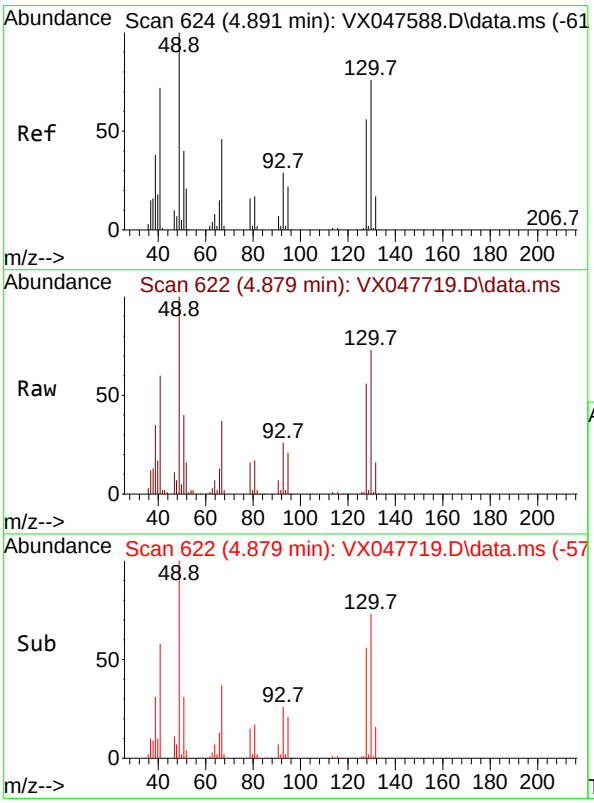
#27
cis-1,2-Dichloroethene
Concen: 57.629 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 131508

Ion	Ratio	Lower	Upper
96	100		
61	148.0	0.0	303.2
98	64.1	0.0	127.8

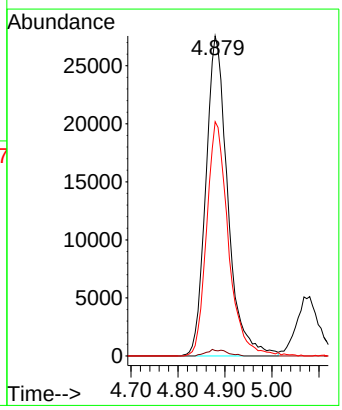


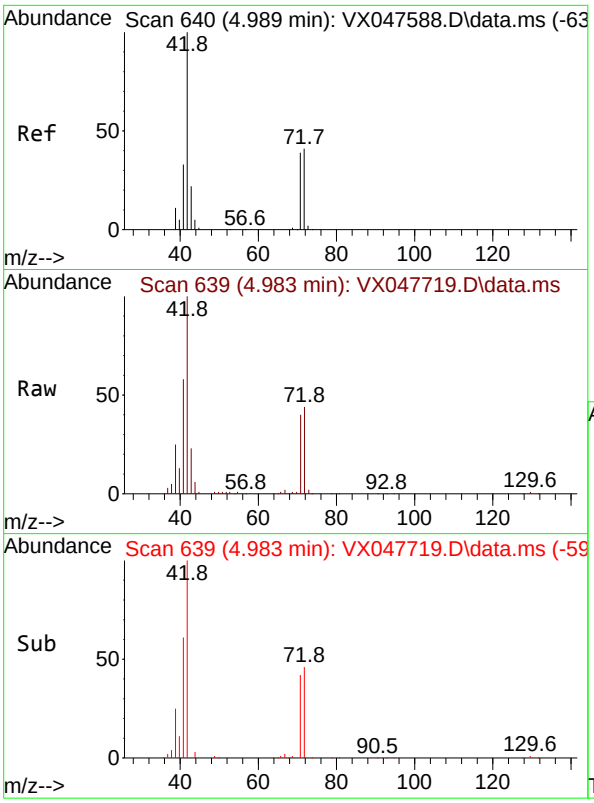


#28
Bromochloromethane
Concen: 55.520 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 49 Resp: 89169

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8



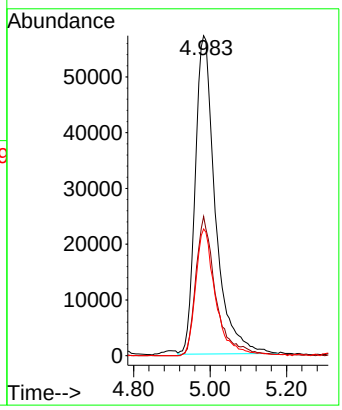


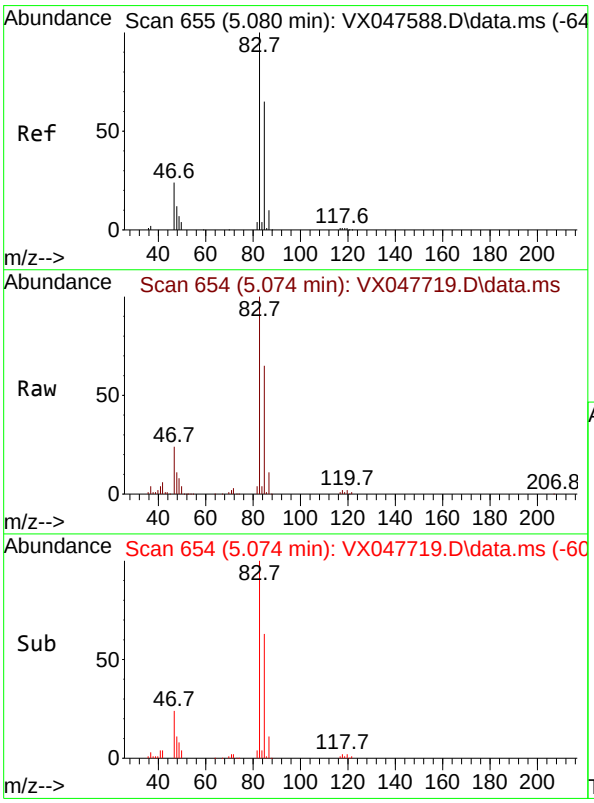
#29
Tetrahydrofuran
Concen: 274.666 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 207795

Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.2	51.2
71	40.0	31.9	47.9

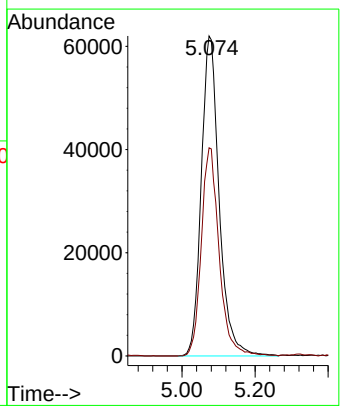


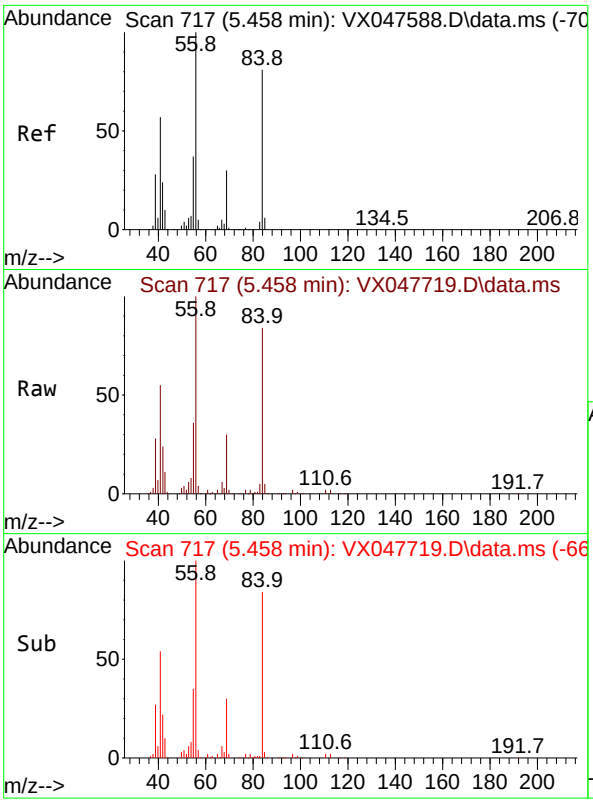


#30
Chloroform
Concen: 56.566 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 210287

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6



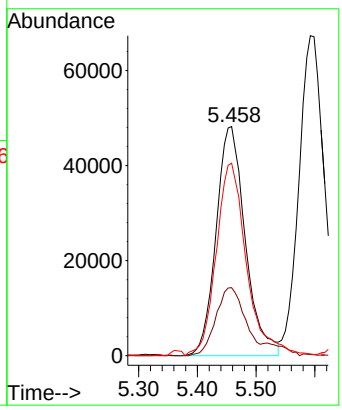


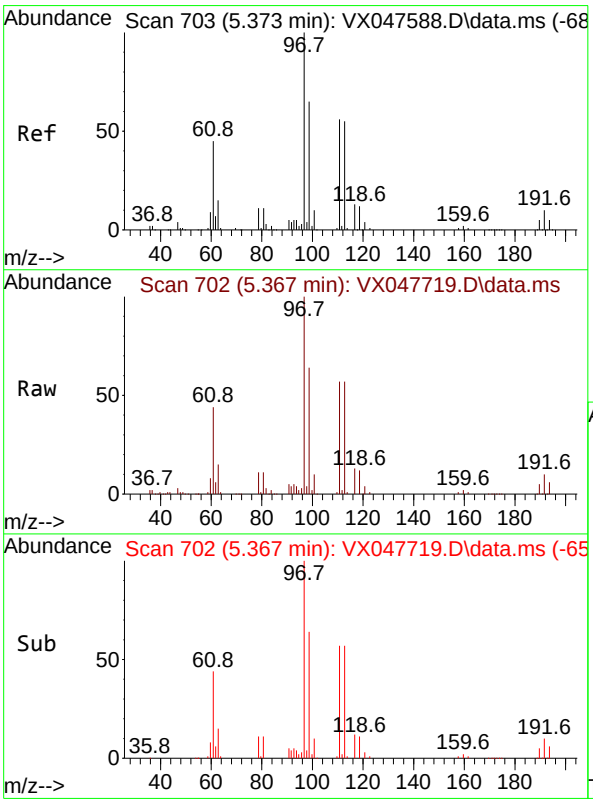
#31
Cyclohexane
Concen: 54.312 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 166413

Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.8	35.8
84	81.9	64.6	97.0

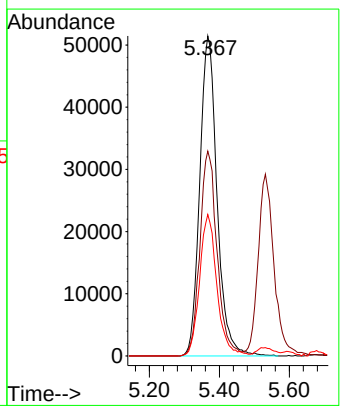


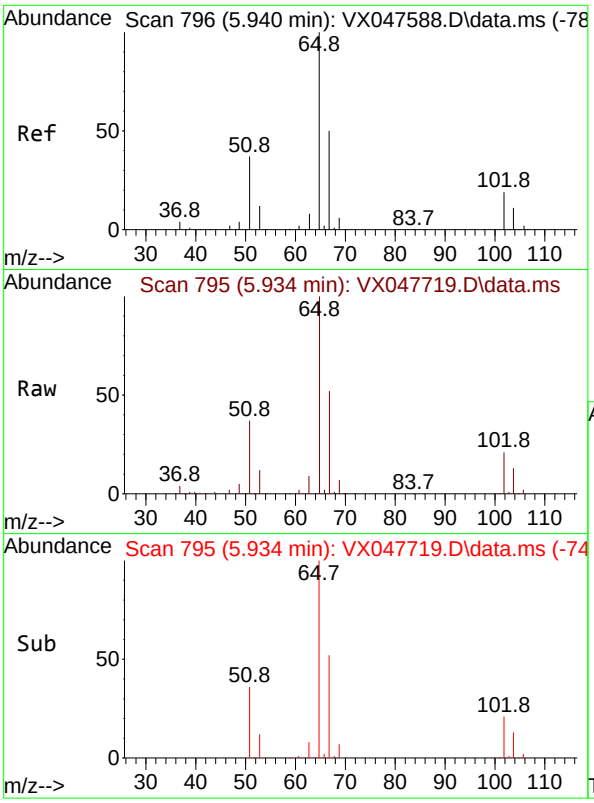


#32
1,1,1-Trichloroethane
Concen: 55.958 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 97 Resp: 176453

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.3	35.8	53.8



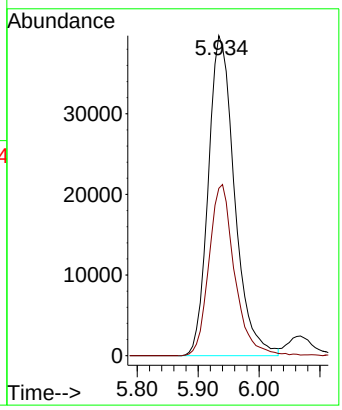


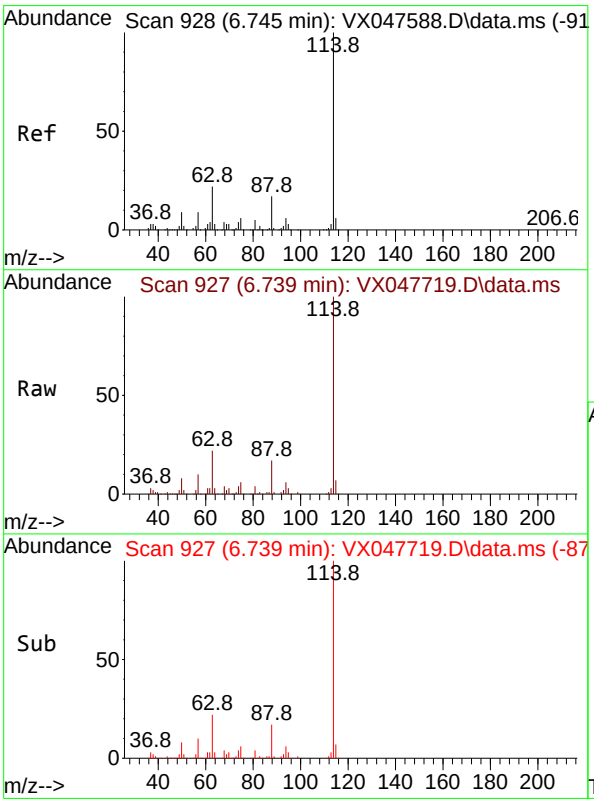
#33
1,2-Dichloroethane-d4
Concen: 51.280 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 118904

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0

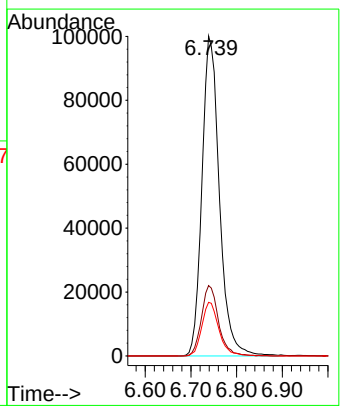


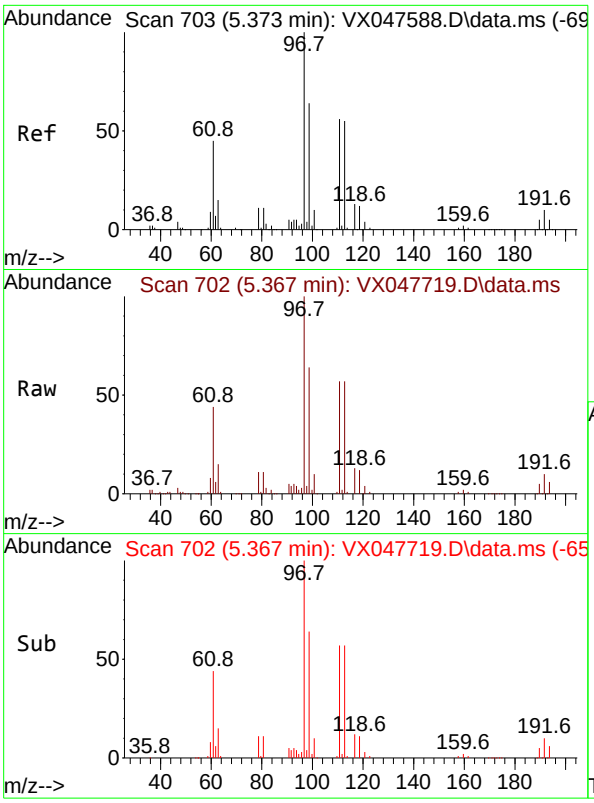


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:114 Resp: 265022

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	16.8	0.0	34.2



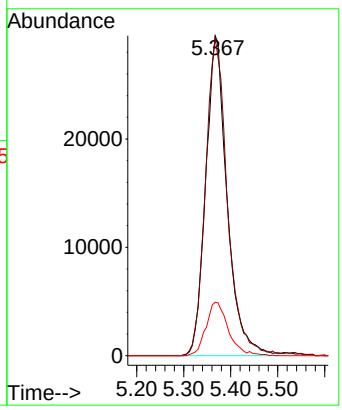


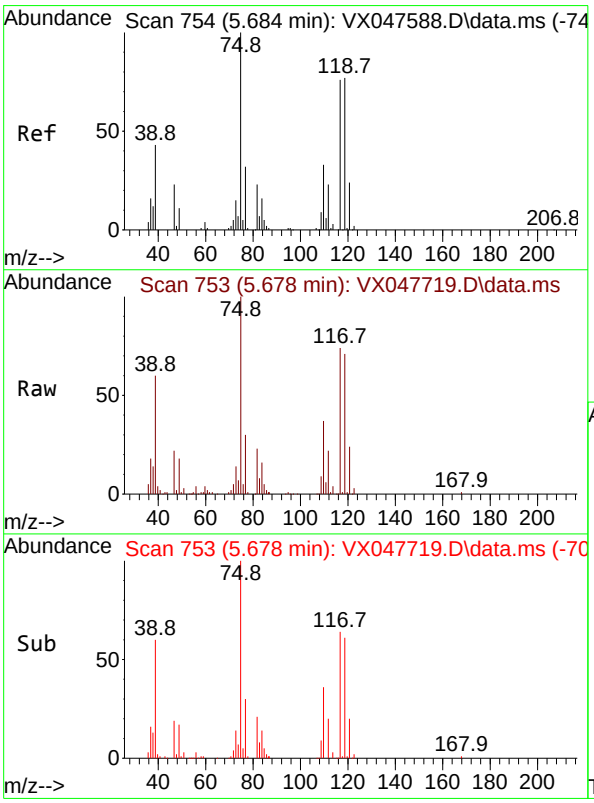
#35
Dibromofluoromethane
Concen: 52.461 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 93243

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	17.5	14.2	21.4

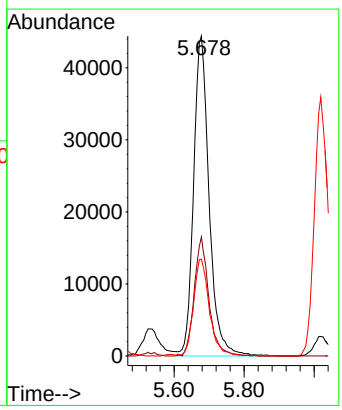


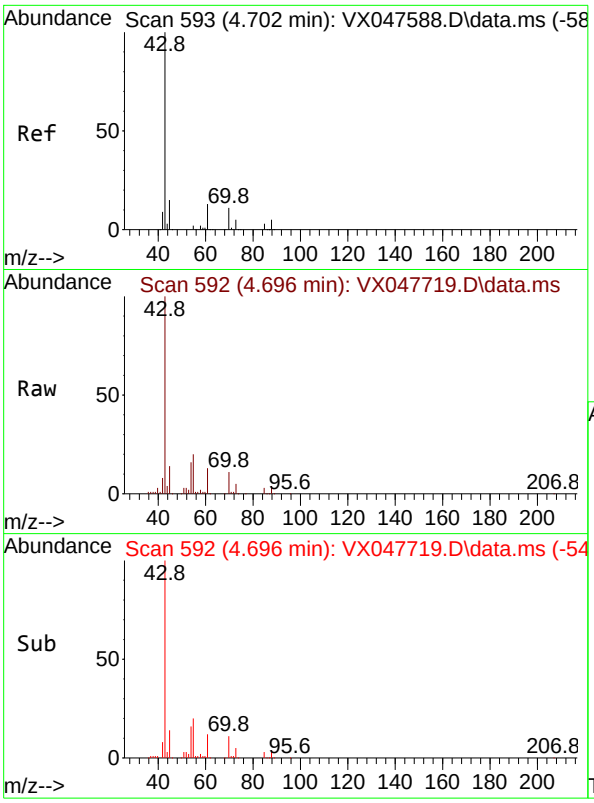


#36
1,1-Dichloropropene
Concen: 52.619 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 136661

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.7	50.1
77	30.9	24.3	36.5



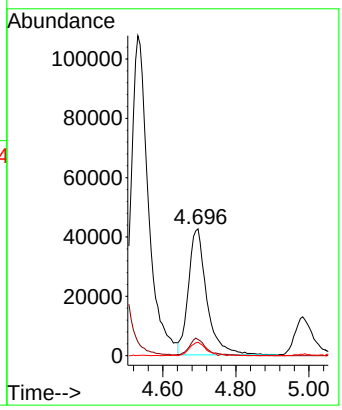


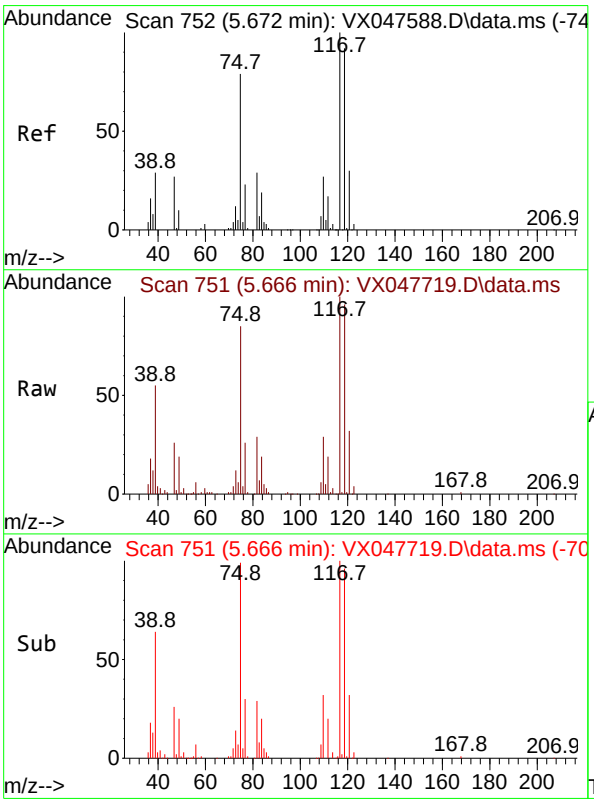
#37
Ethyl Acetate
Concen: 53.244 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 148064

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.3	7.9	11.9

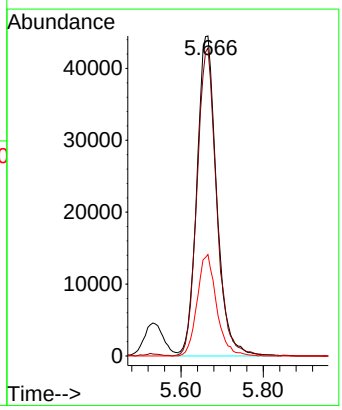


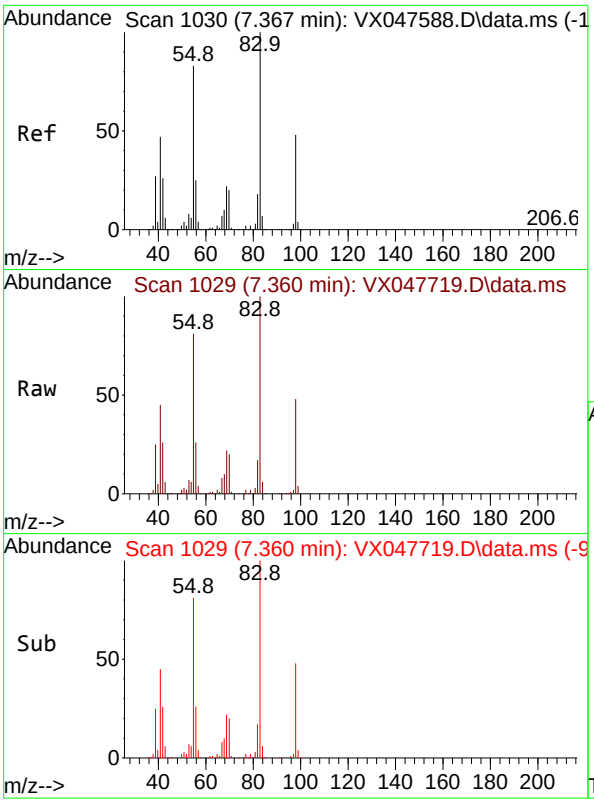


#38
Carbon Tetrachloride
Concen: 52.659 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 148597

Ion	Ratio	Lower	Upper
117	100		
119	96.0	73.4	110.2
121	31.7	23.8	35.6



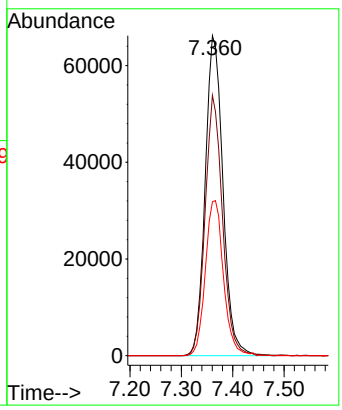


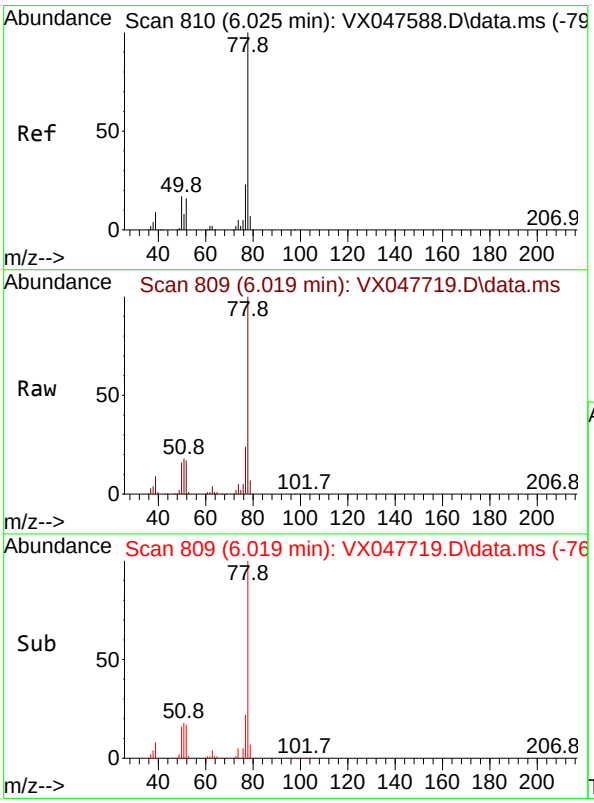
#39
Methylcyclohexane
Concen: 53.805 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 158624

Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	48.1	38.1	57.1

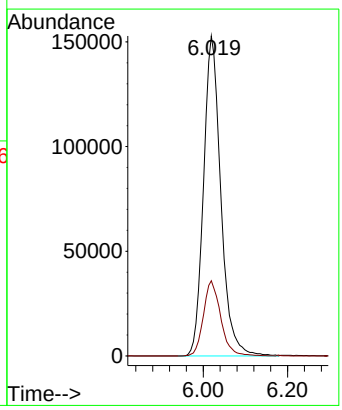


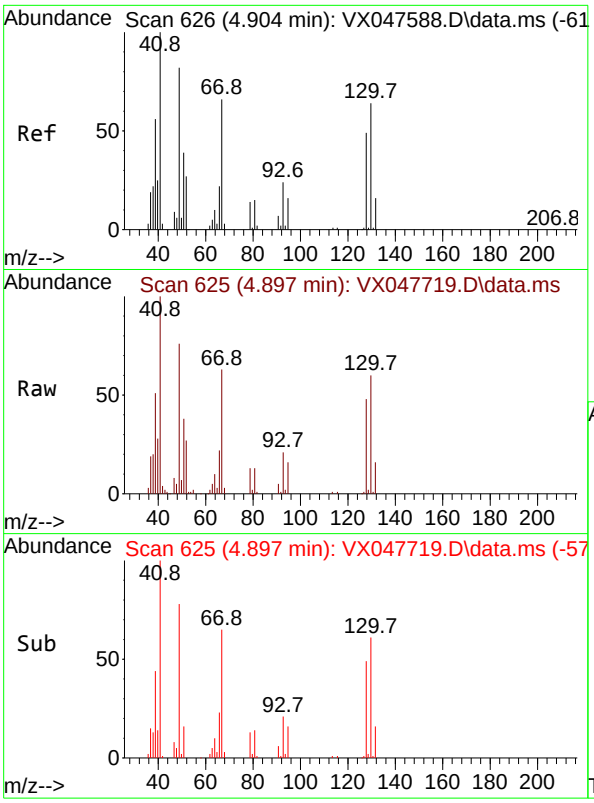


#40
Benzene
Concen: 55.328 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 78 Resp: 436446

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



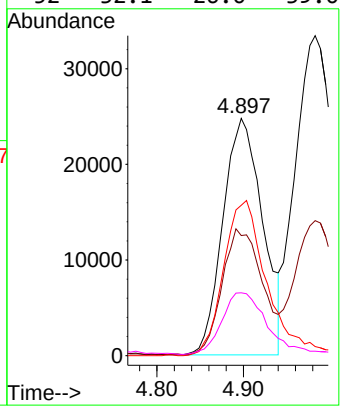


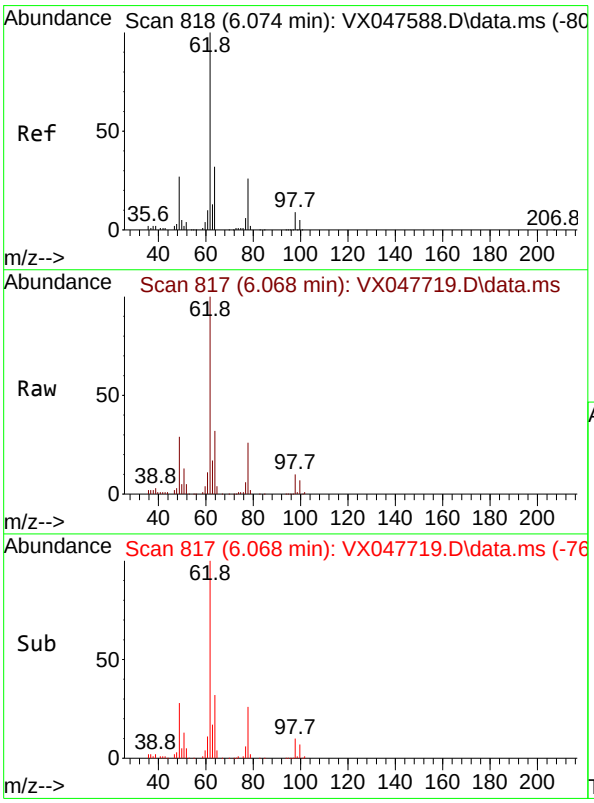
#41
Methacrylonitrile
Concen: 55.020 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 78988

Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.3	64.9
67	72.0	58.6	87.8
52	32.1	26.0	39.0

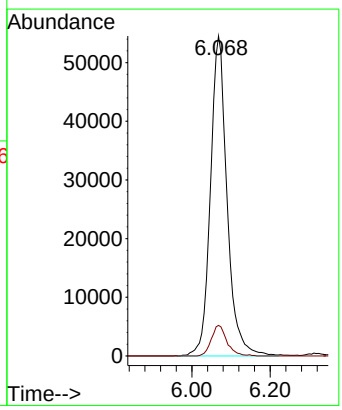


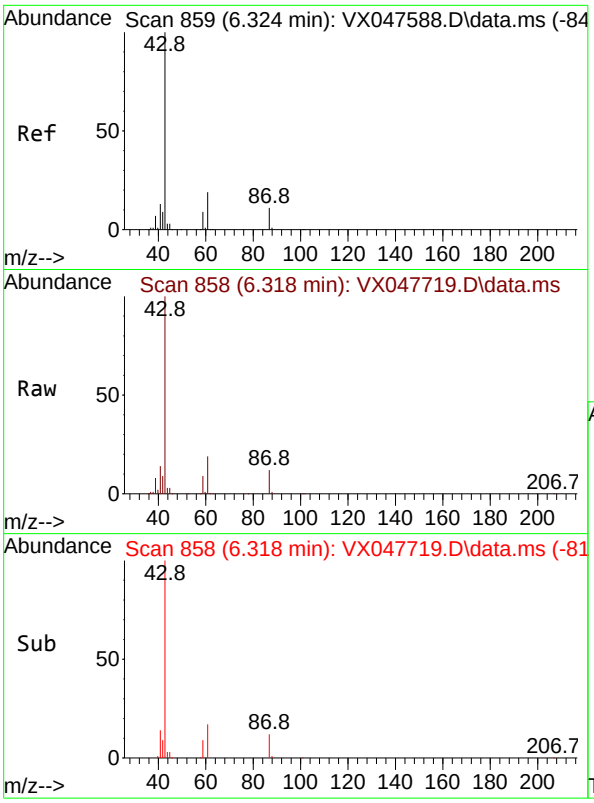


#42
1,2-Dichloroethane
Concen: 53.472 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 160490

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0



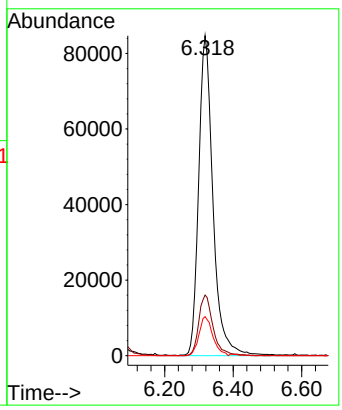


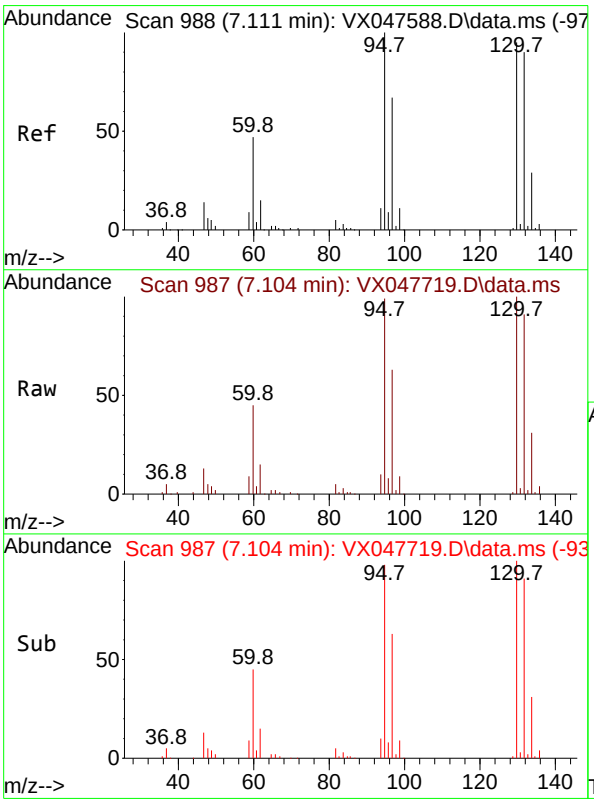
#43
Isopropyl Acetate
Concen: 54.094 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 246709

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	11.7	9.6	14.4

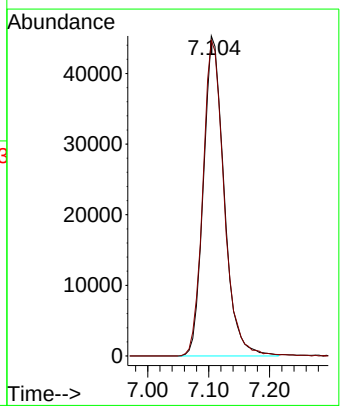


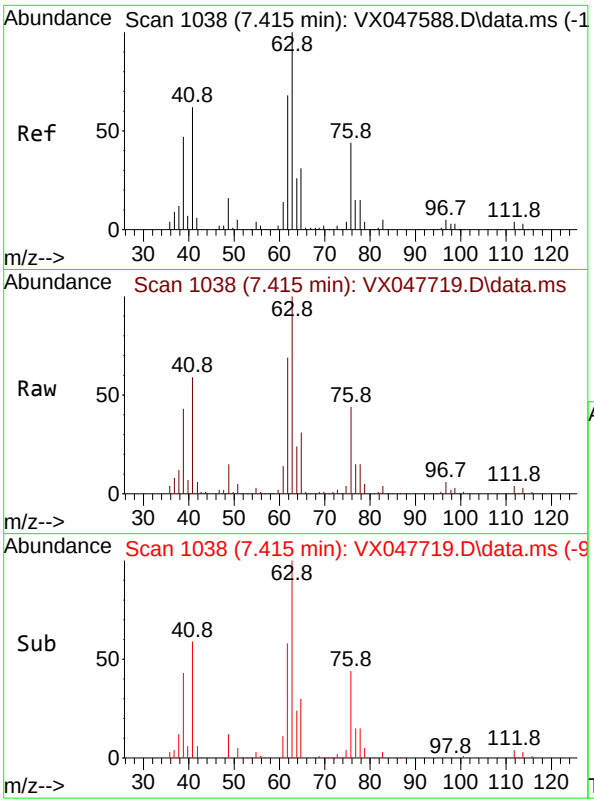


#44
Trichloroethene
Concen: 55.974 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:130 Resp: 106747

Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	210.8



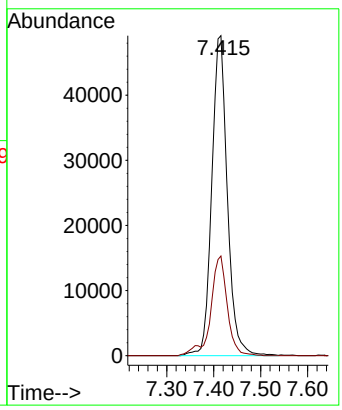


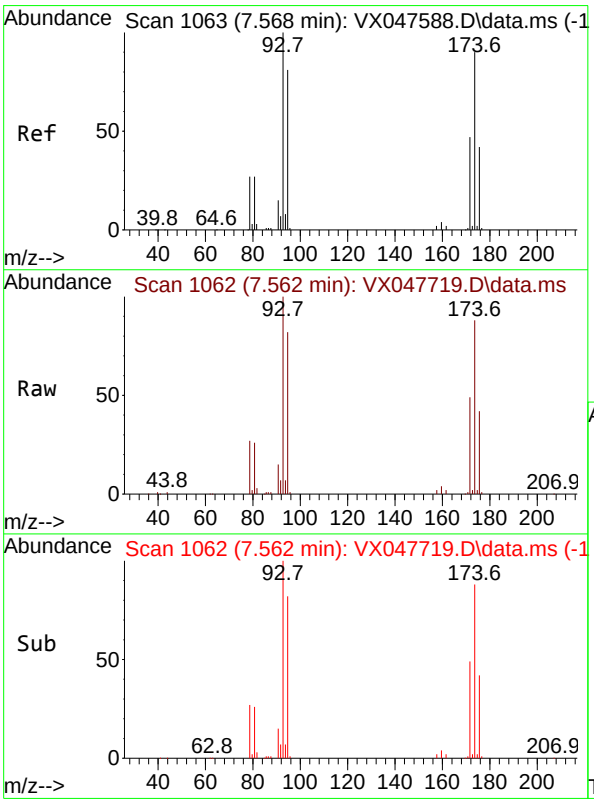
#45
1,2-Dichloropropane
Concen: 55.852 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 112815

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.7	37.1

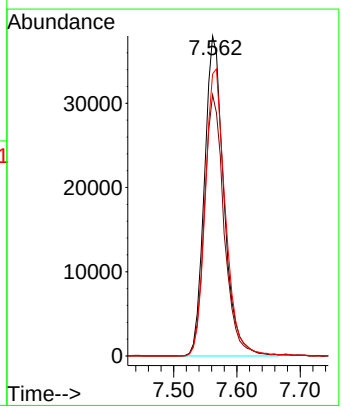


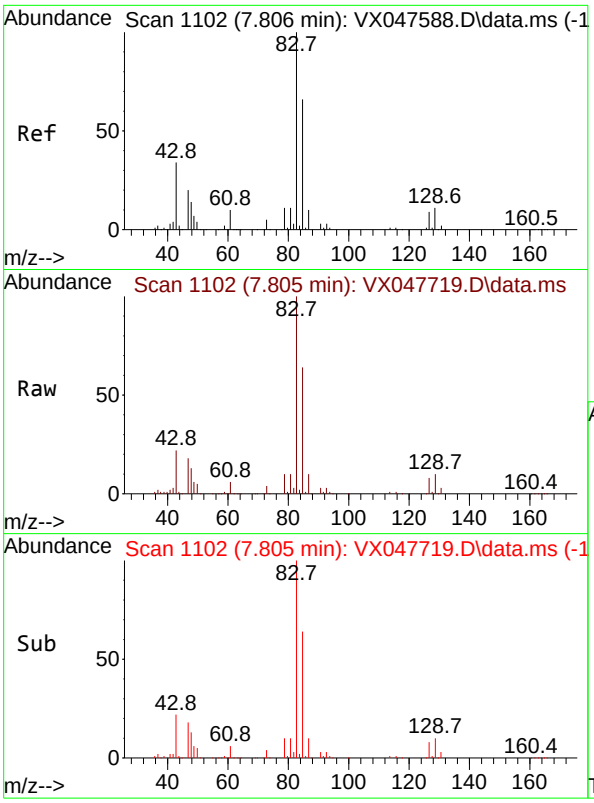


#46
Dibromomethane
Concen: 55.264 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 93 Resp: 81231

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.0	97.6
174	92.6	71.6	107.4



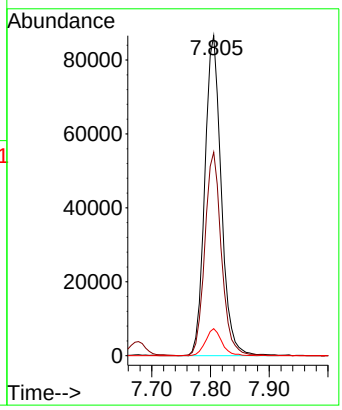


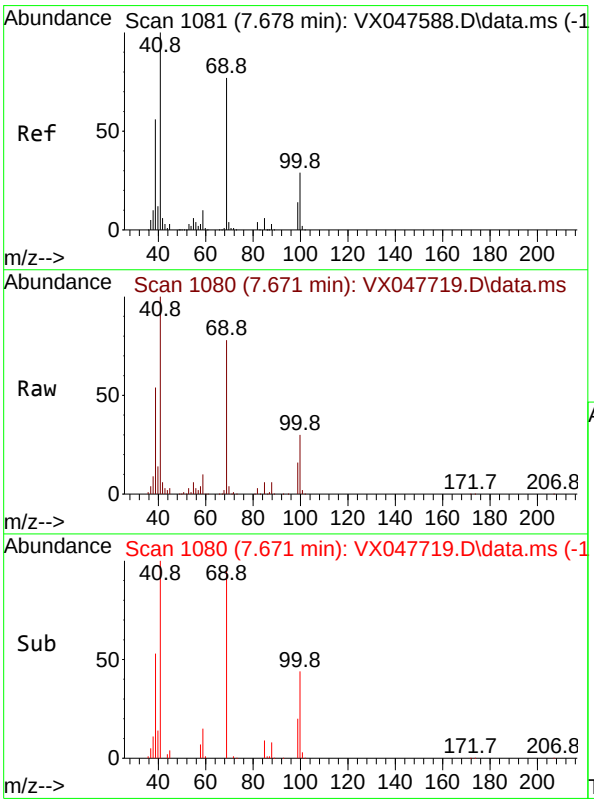
#47
Bromodichloromethane
Concen: 55.419 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 168096

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.5	78.7
127	8.4	6.9	10.3

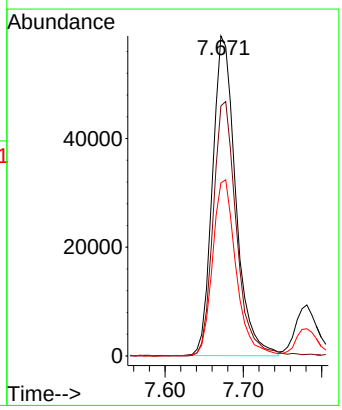


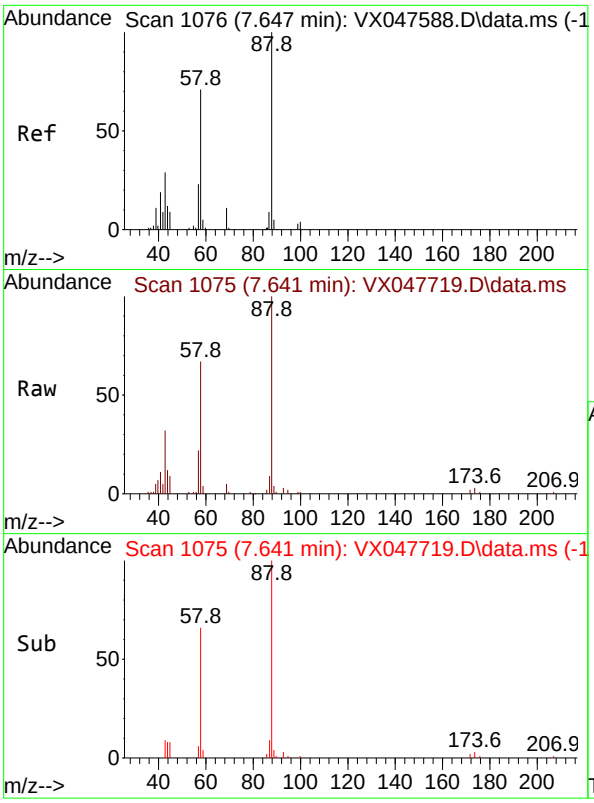


#48
Methyl methacrylate
Concen: 53.434 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 121390

Ion	Ratio	Lower	Upper
41	100		
69	79.4	61.4	92.2
39	55.8	45.8	68.6



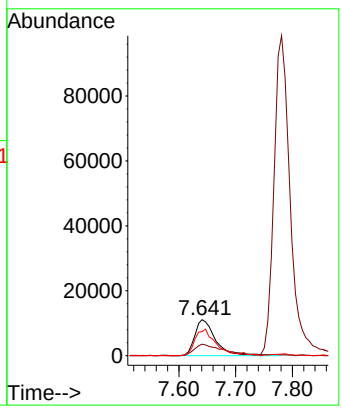


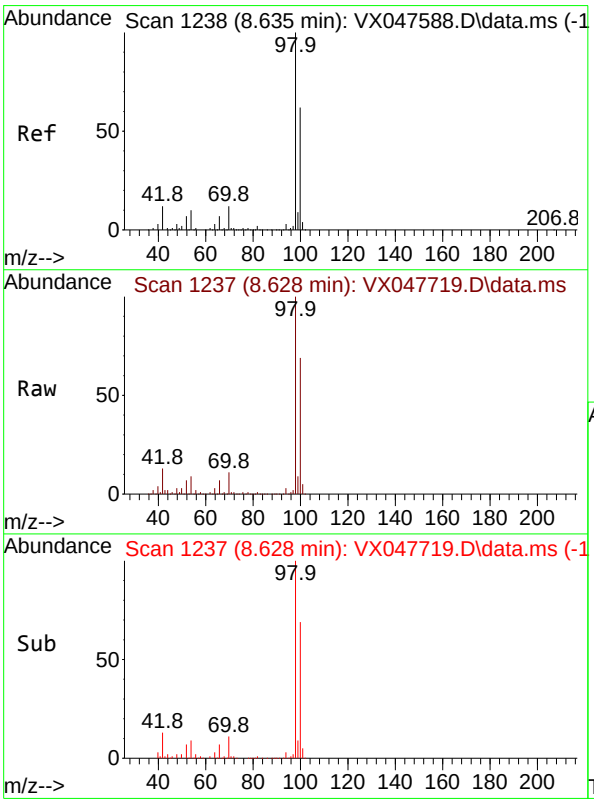
#49
1,4-Dioxane
Concen: 1254.001 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28790

Ion	Ratio	Lower	Upper
88	100		
43	40.3	30.2	45.2
58	74.5	59.5	89.3

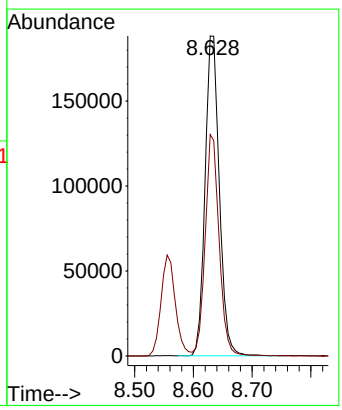


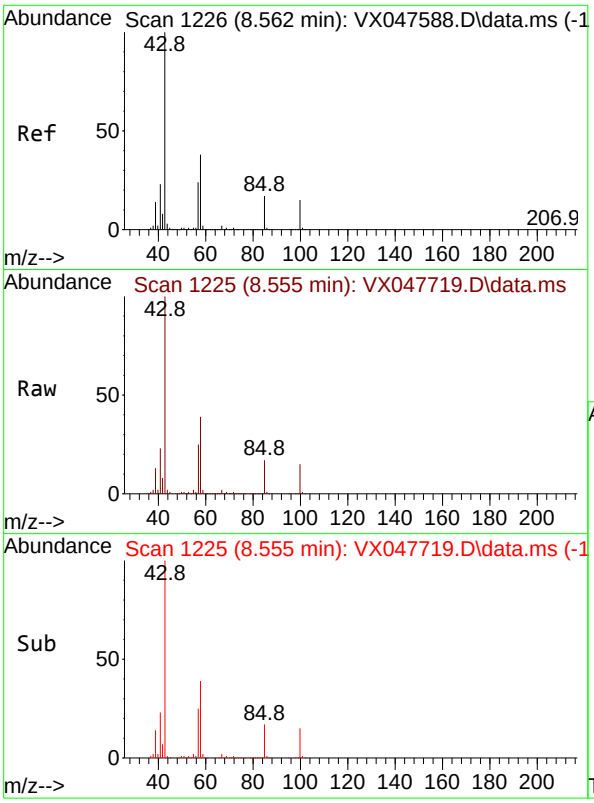


#50
Toluene-d8
Concen: 51.720 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 98 Resp: 318085

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



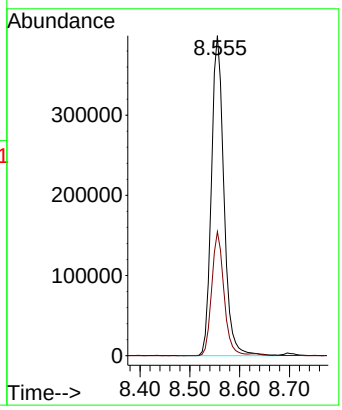


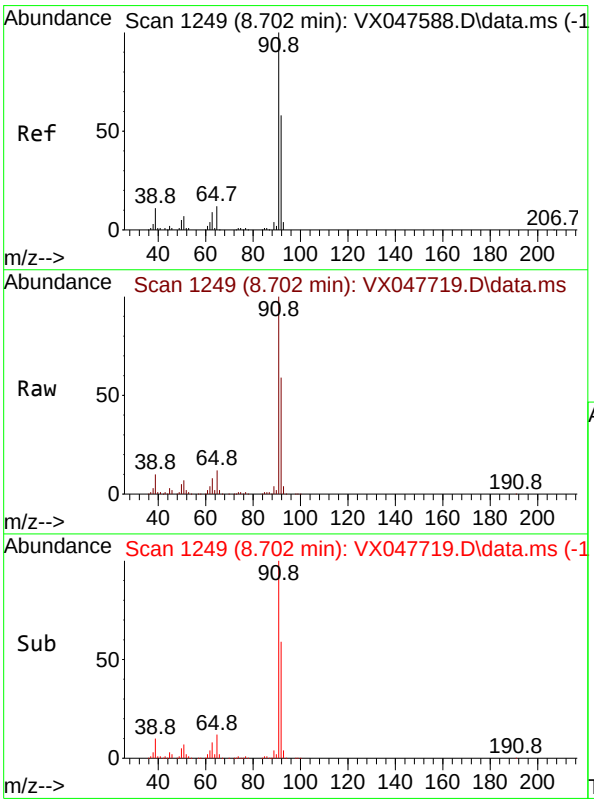
#51
4-Methyl-2-Pentanone
Concen: 275.127 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 695707

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5

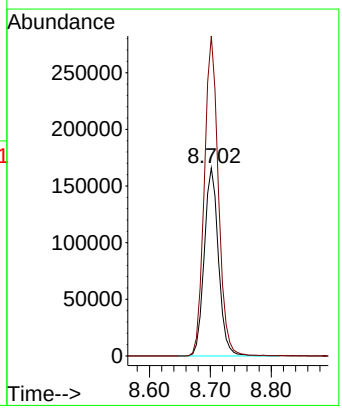


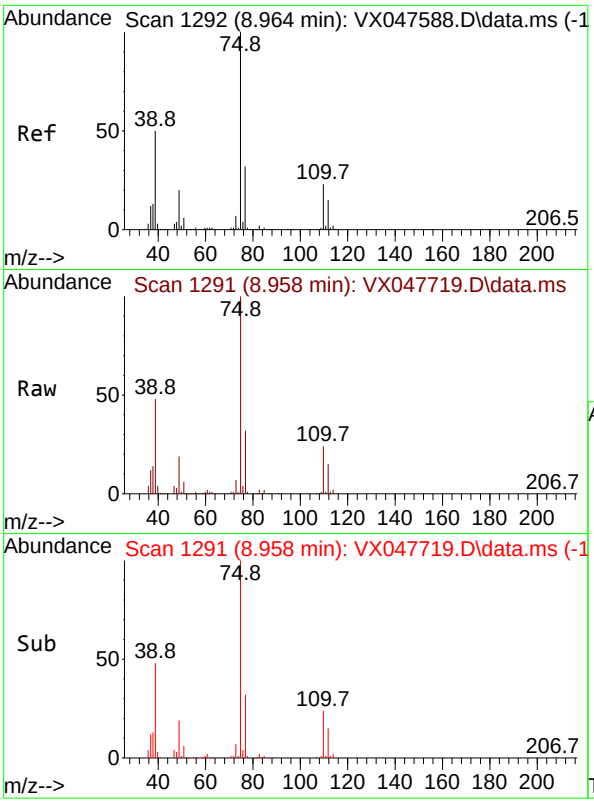


#52
Toluene
Concen: 55.411 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 92 Resp: 269293

Ion	Ratio	Lower	Upper
92	100		
91	168.5	137.1	205.7



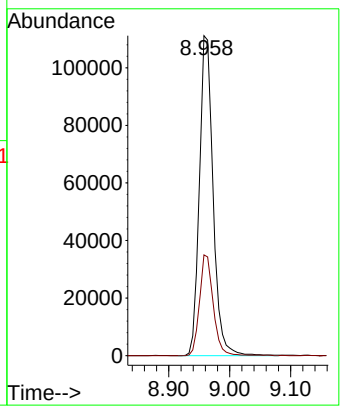


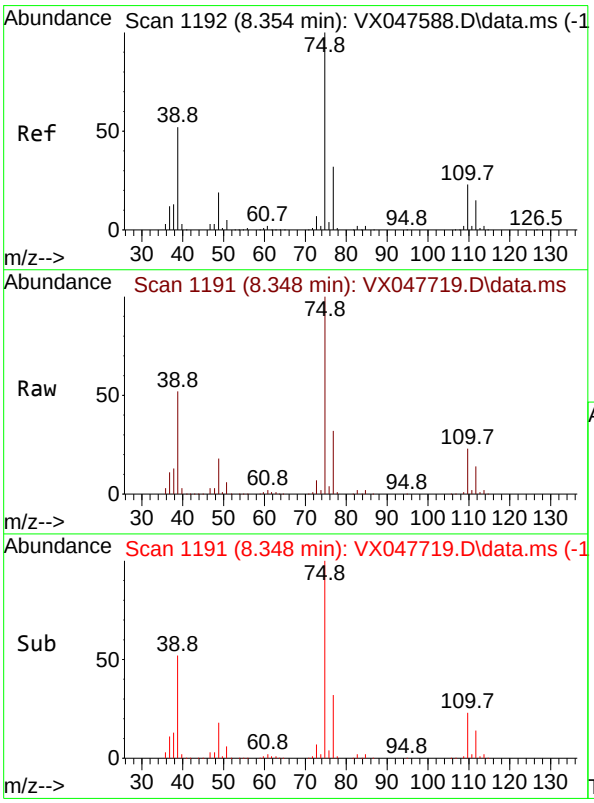
#53
t-1,3-Dichloropropene
Concen: 56.347 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 174332

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.2

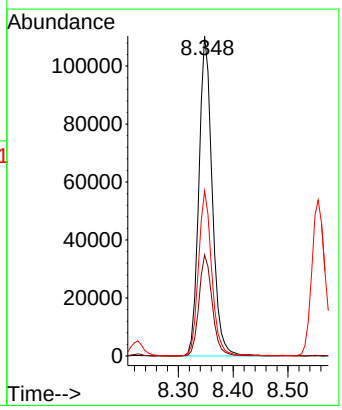


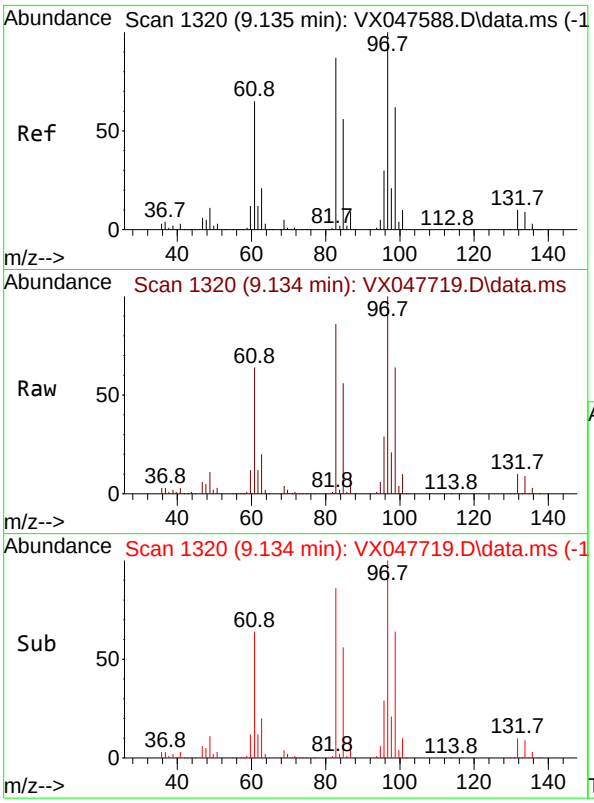


#54
cis-1,3-Dichloropropene
Concen: 56.434 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 186621

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.8	38.6
39	51.5	41.4	62.2



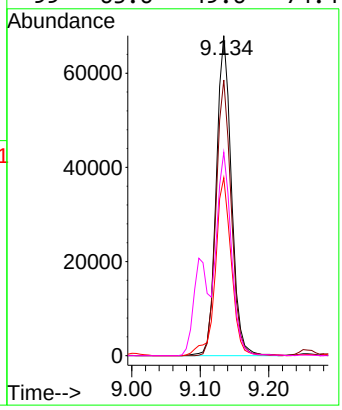


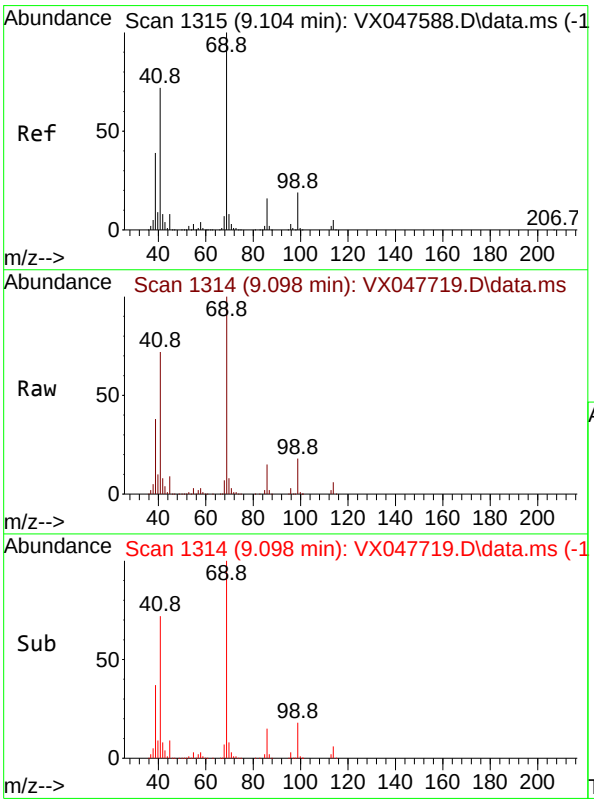
#55
1,1,2-Trichloroethane
Concen: 55.502 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 104009

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.6	45.0	67.6
99	63.6	49.6	74.4

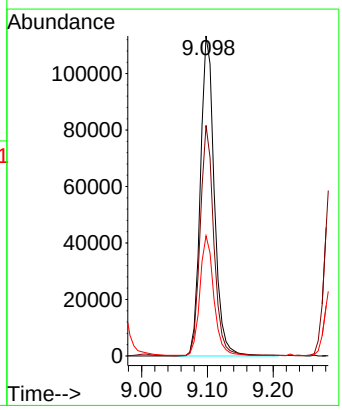


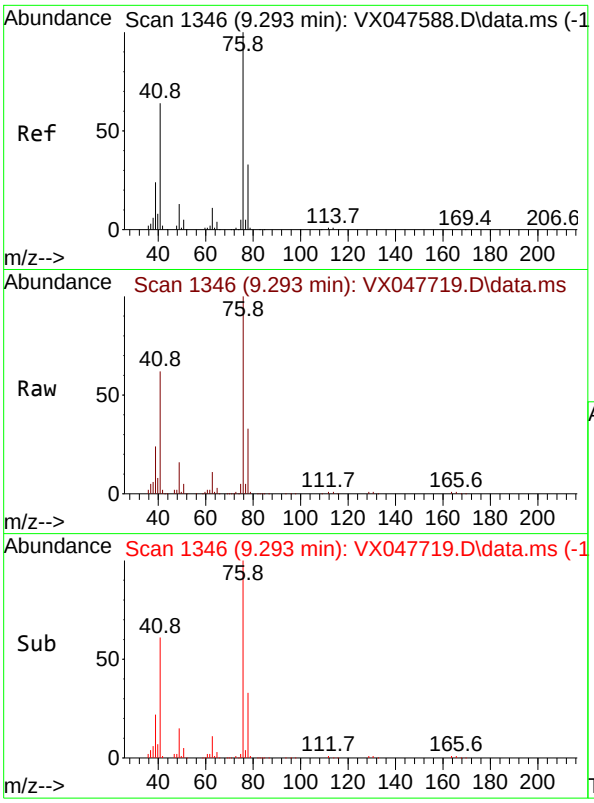


#56
Ethyl methacrylate
Concen: 56.751 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 69 Resp: 167018

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.2	31.5	47.3



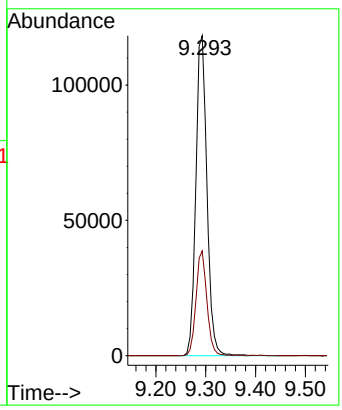


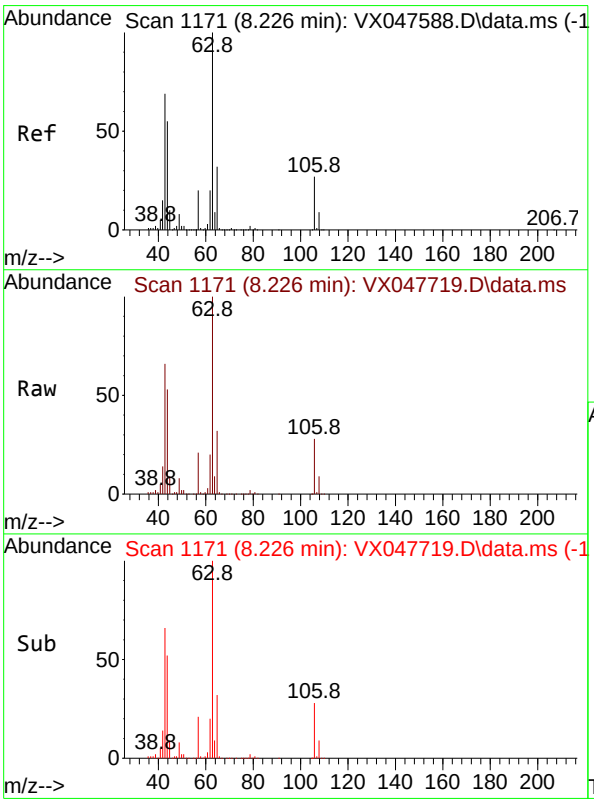
#57
1,3-Dichloropropane
Concen: 56.707 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 182551

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4

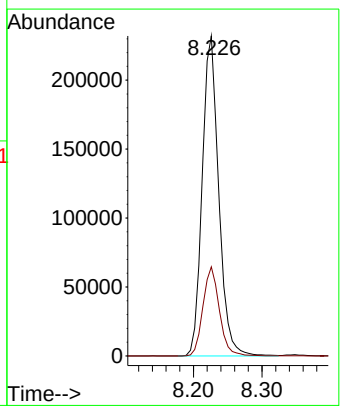


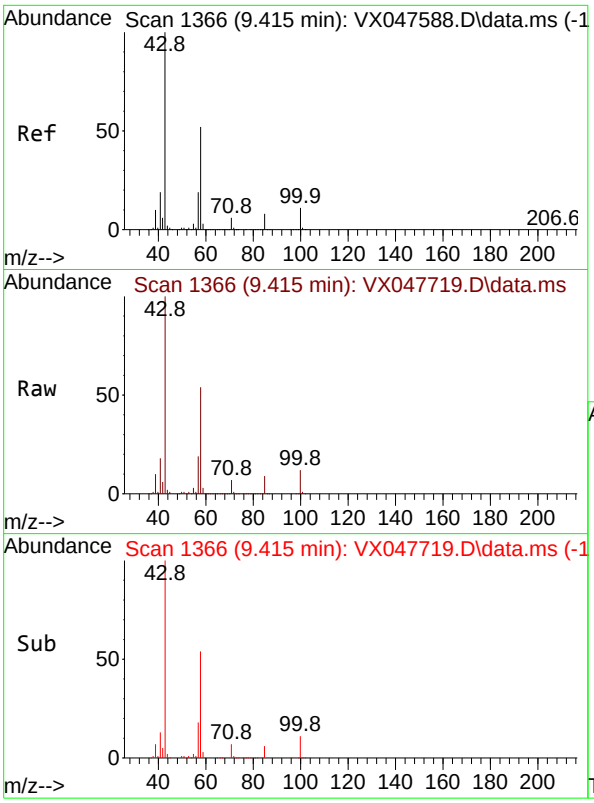


#58
2-Chloroethyl Vinyl ether
Concen: 274.956 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 389211

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9



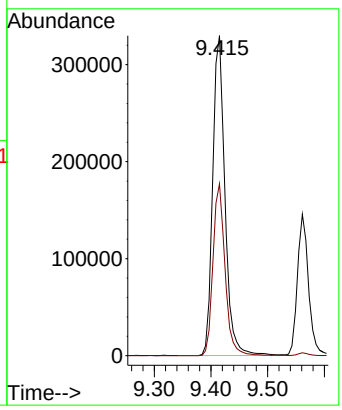


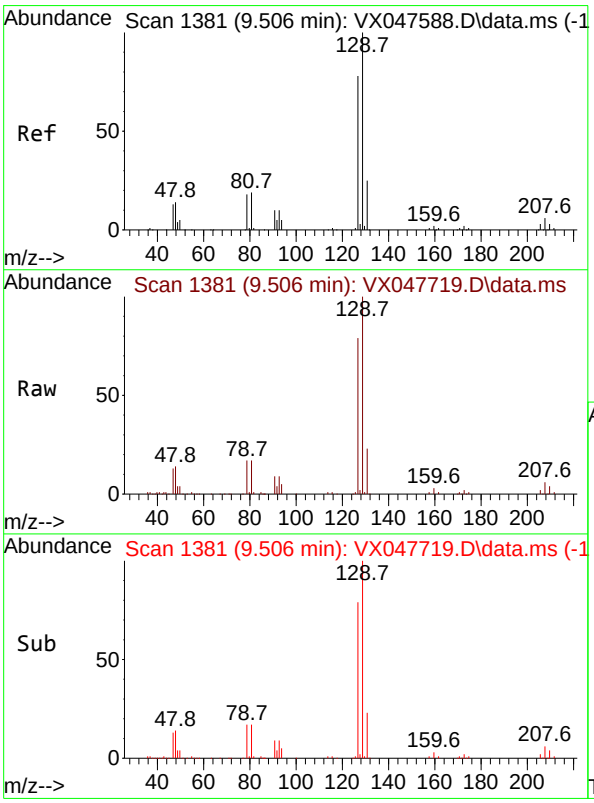
#59
2-Hexanone
Concen: 272.845 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 495514

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2

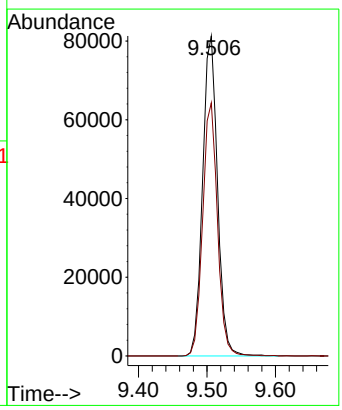


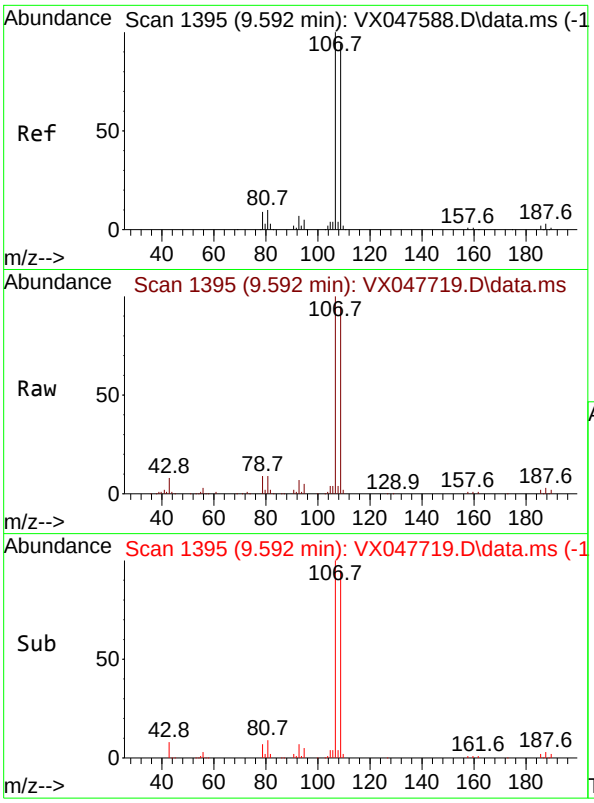


#60
Dibromochloromethane
Concen: 56.997 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:129 Resp: 123071

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.4	115.2



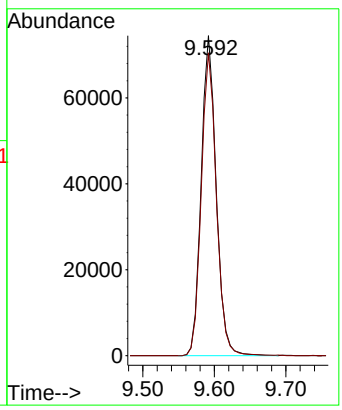


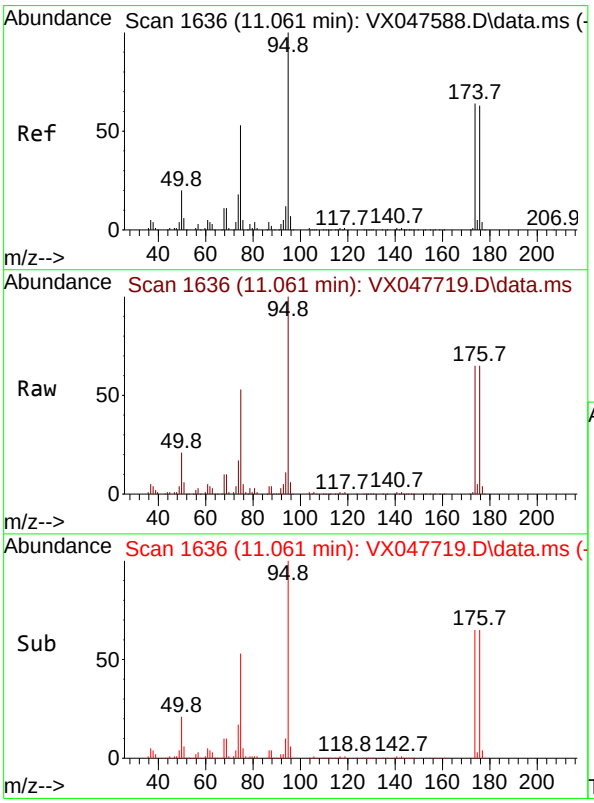
#61
1,2-Dibromoethane
Concen: 56.870 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 108549

Ion	Ratio	Lower	Upper
107	100		
109	95.2	75.3	112.9

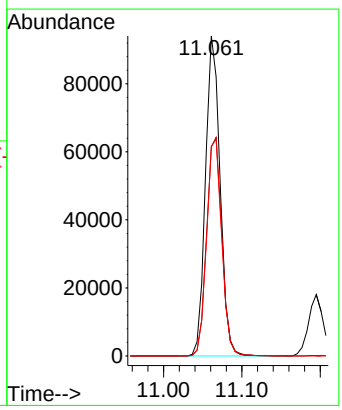


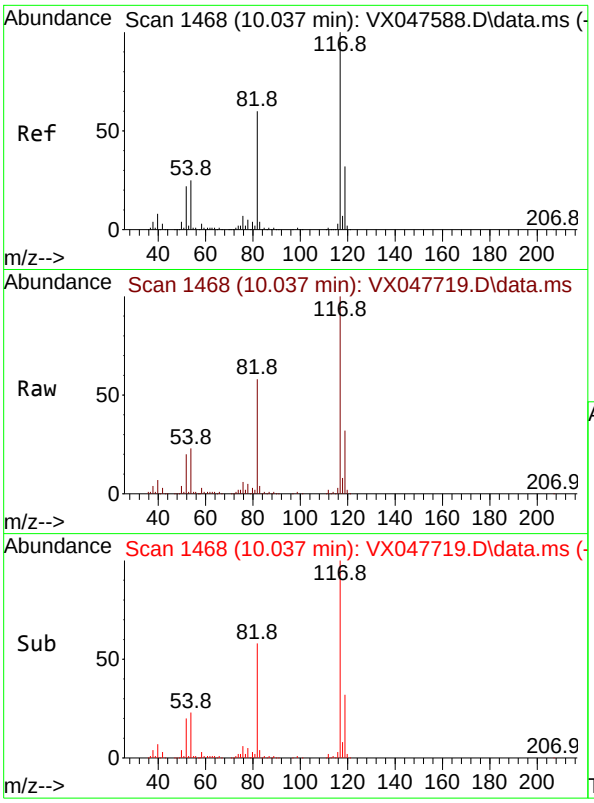


#62
4-Bromofluorobenzene
Concen: 52.073 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 95 Resp: 121543

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	141.6
176	70.0	0.0	138.4



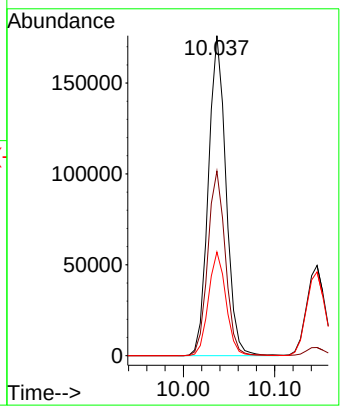


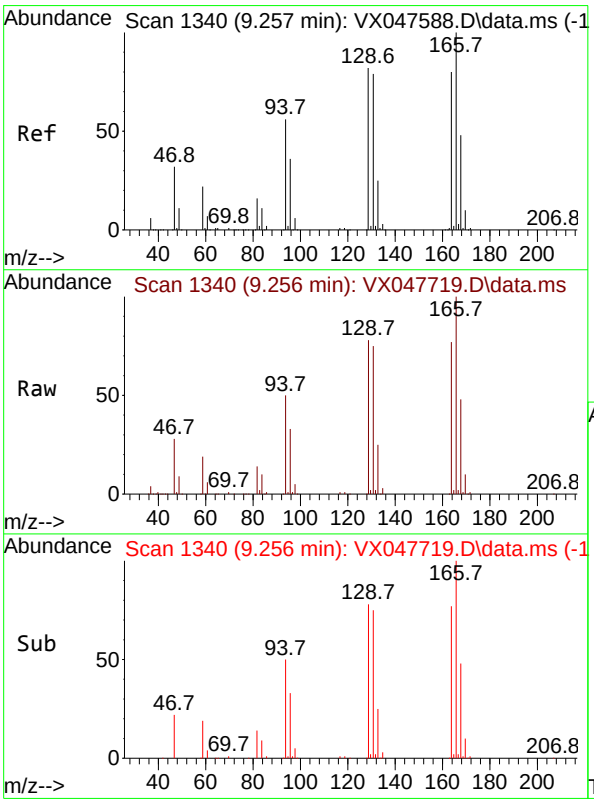
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 235703

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	32.4	25.2	37.8

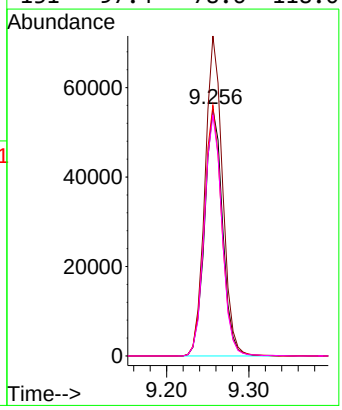


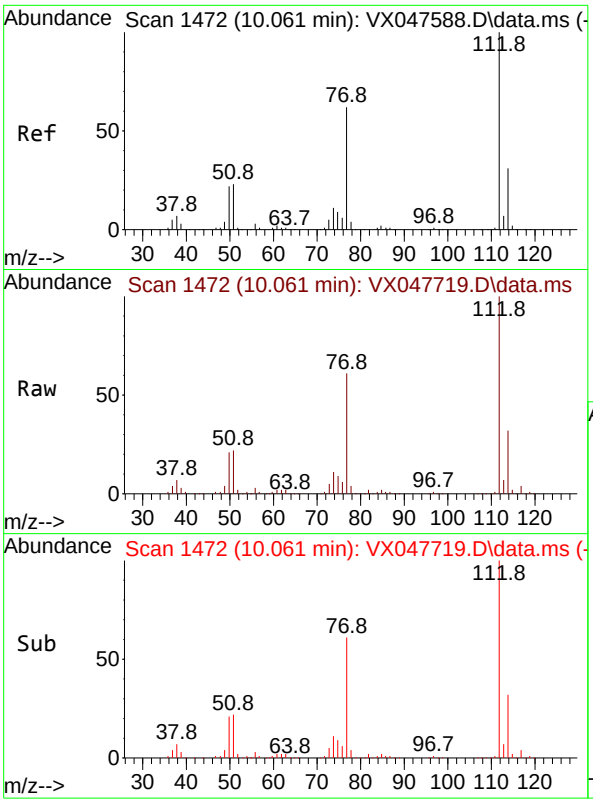


#64
Tetrachloroethene
Concen: 54.167 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:164 Resp: 83230

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.2	150.2
129	101.4	81.8	122.6
131	97.4	78.6	118.0



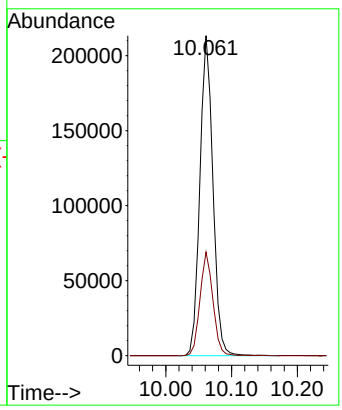


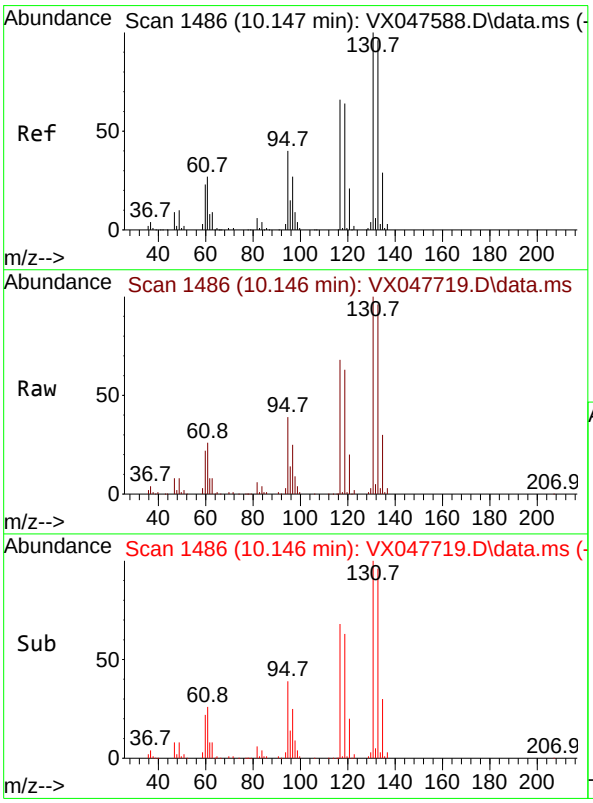
#65
Chlorobenzene
Concen: 54.848 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 293695

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.1	37.7

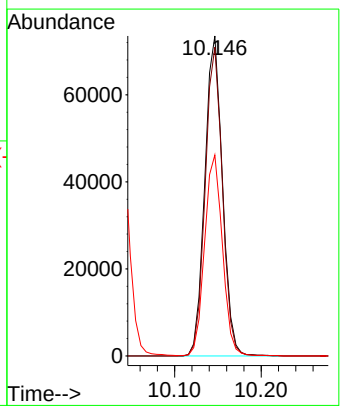


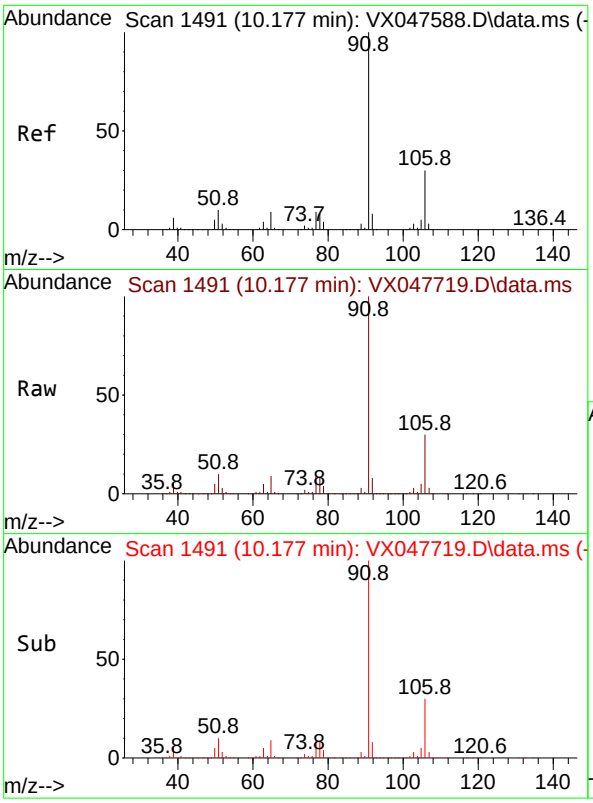


#66
1,1,1,2-Tetrachloroethane
Concen: 56.149 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:131 Resp: 103750

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	63.7	32.0	96.0



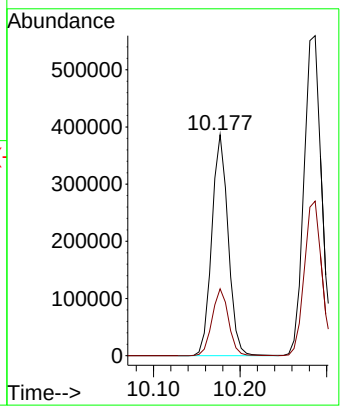


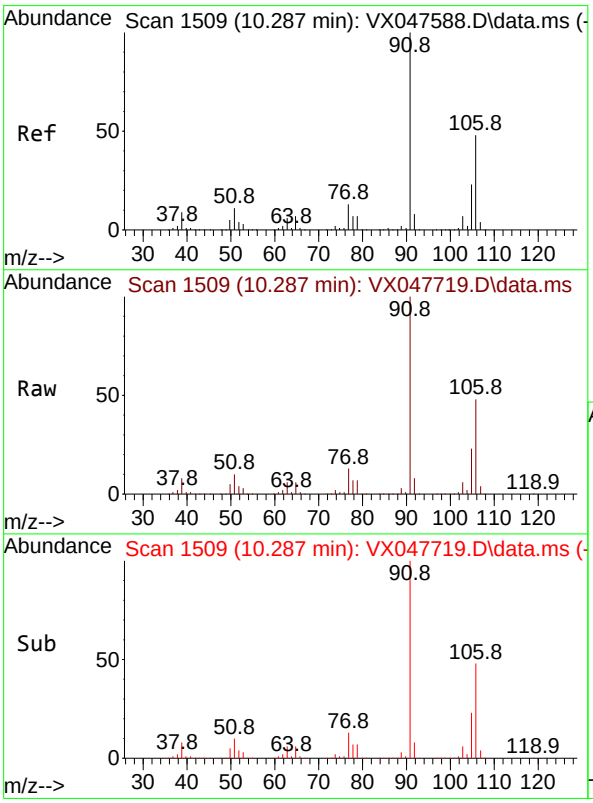
#67
Ethyl Benzene
Concen: 54.859 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 506854

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

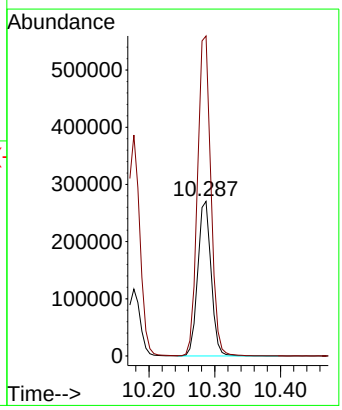


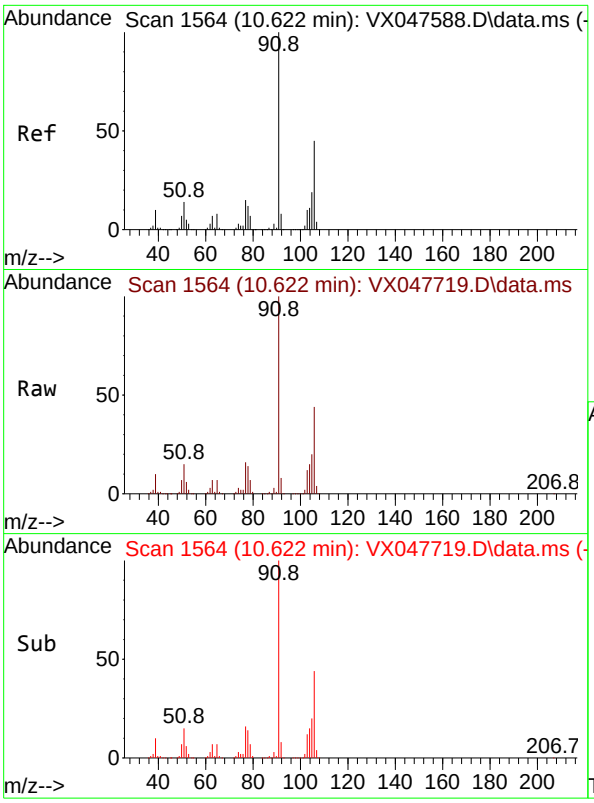


#68
m/p-Xylenes
Concen: 110.636 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:106 Resp: 380464

Ion	Ratio	Lower	Upper
106	100		
91	208.3	167.8	251.8



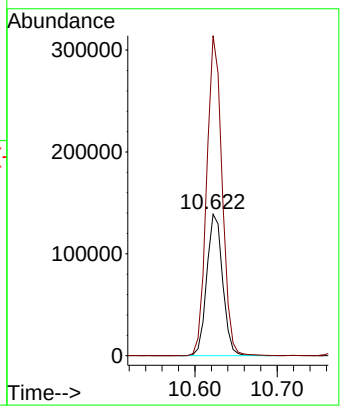


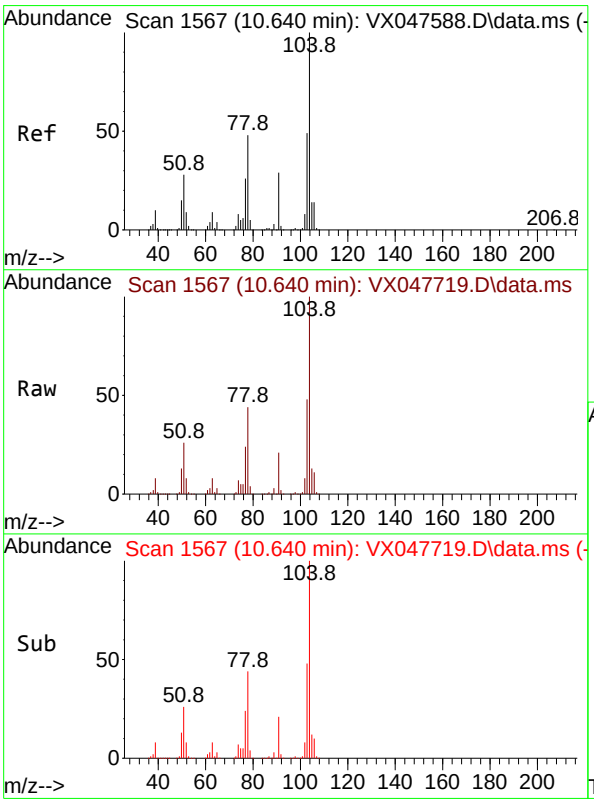
#69
o-Xylene
Concen: 55.967 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 186157

Ion	Ratio	Lower	Upper
106	100		
91	220.1	111.1	333.4

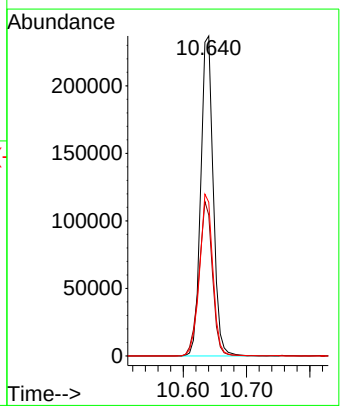


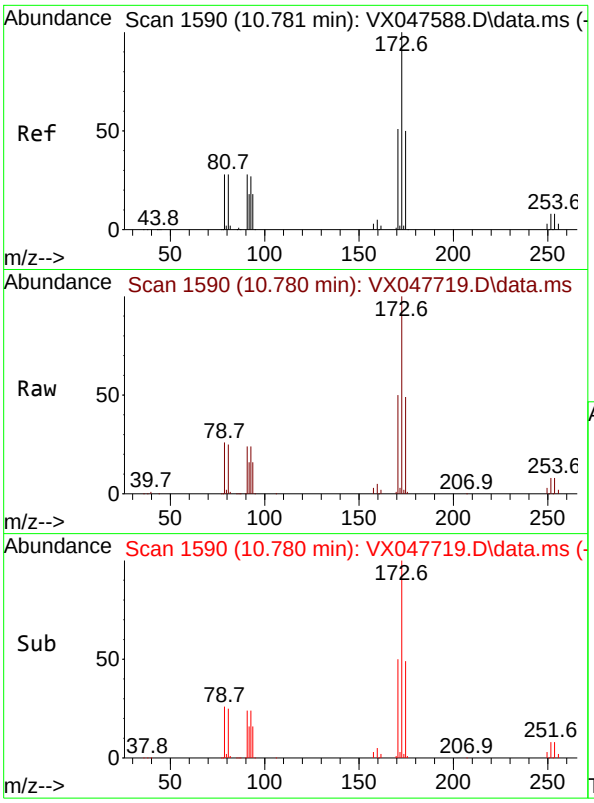


#70
Styrene
Concen: 55.888 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:104 Resp: 325724

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	54.2	43.1	64.7



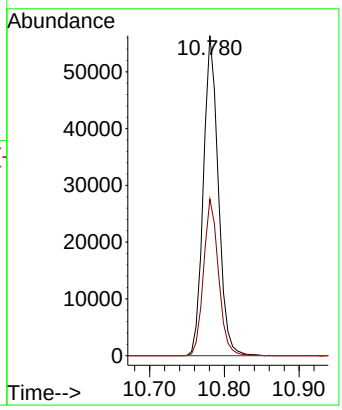


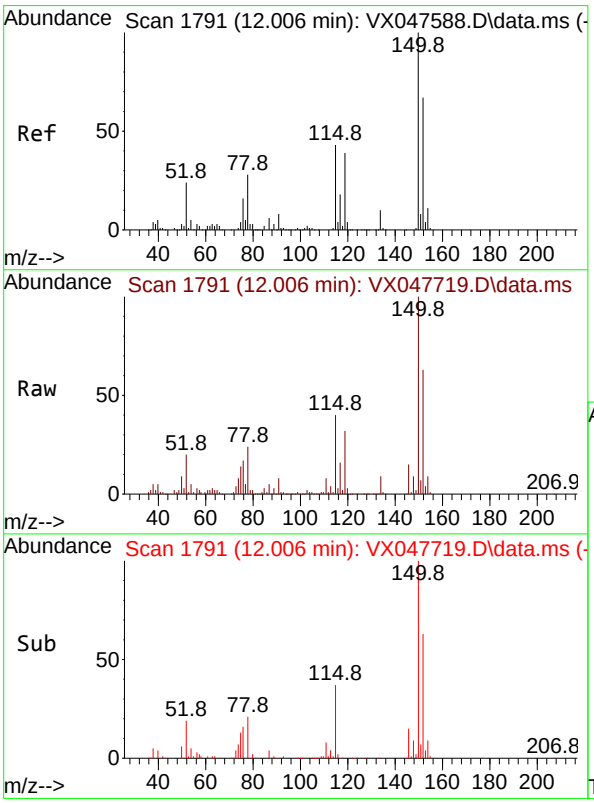
#71
Bromoform
Concen: 56.699 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 78229

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.9	74.6
254	0.0	0.1	0.1#

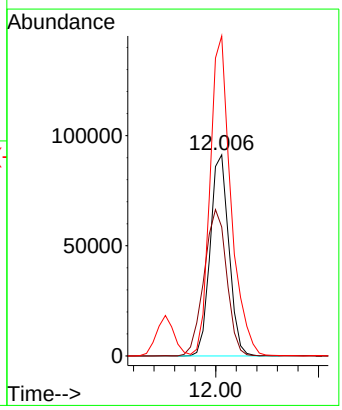


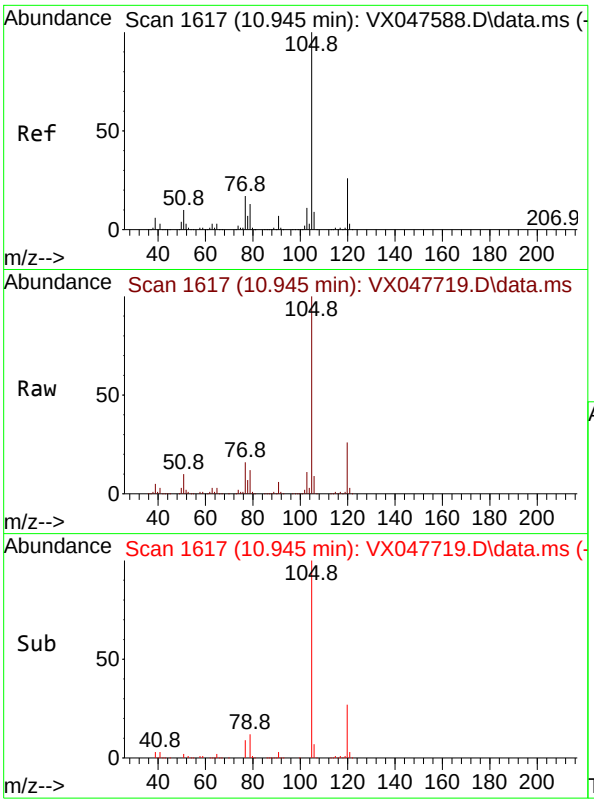


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:152 Resp: 115061

Ion	Ratio	Lower	Upper
152	100		
115	88.5	44.9	134.5
150	177.7	0.0	352.0



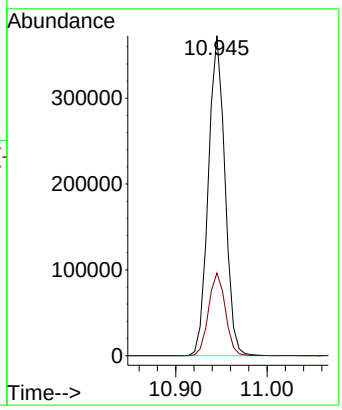


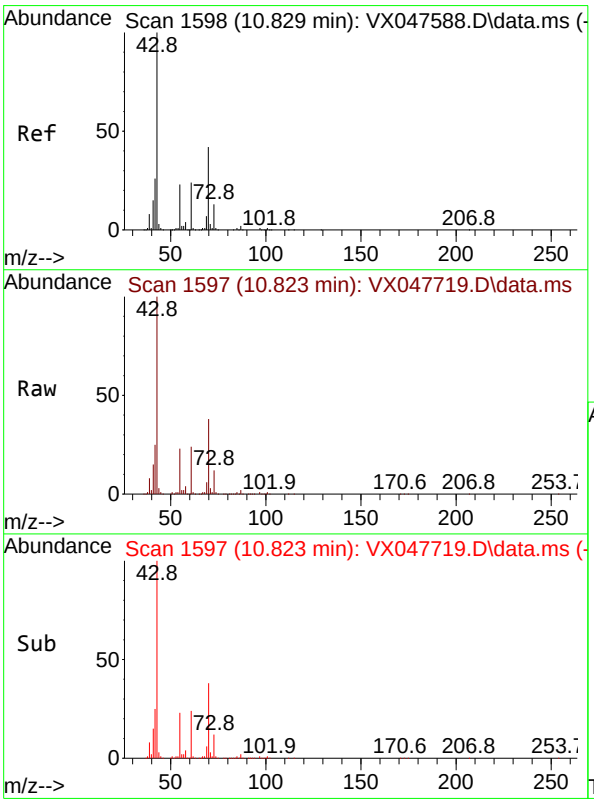
#73
Isopropylbenzene
Concen: 53.558 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 468503

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4

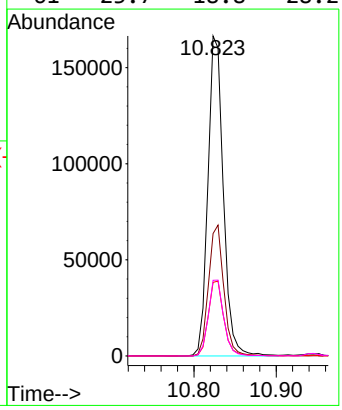


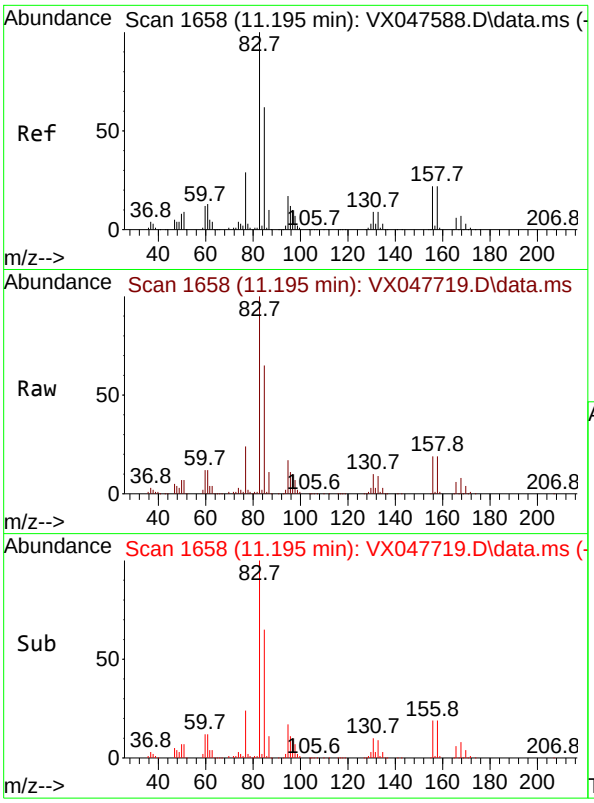


#74
N-amyl acetate
Concen: 54.388 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 216957

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.6	18.9	28.3
61	23.7	18.8	28.2



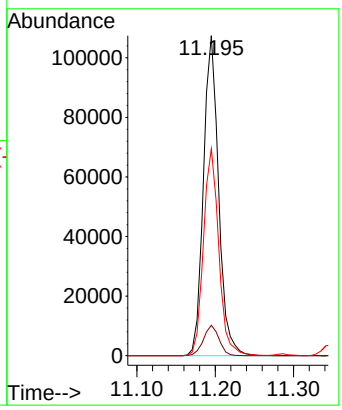


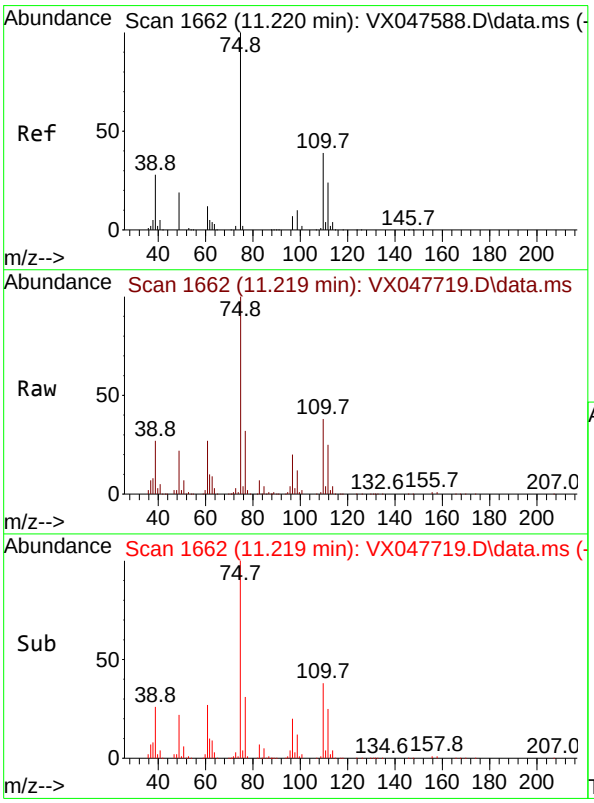
#75
1,1,2,2-Tetrachloroethane
Concen: 54.463 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 144143

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	65.2	31.6	95.0

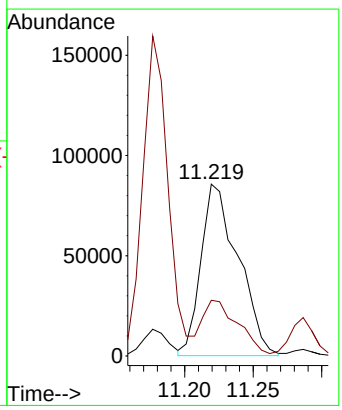


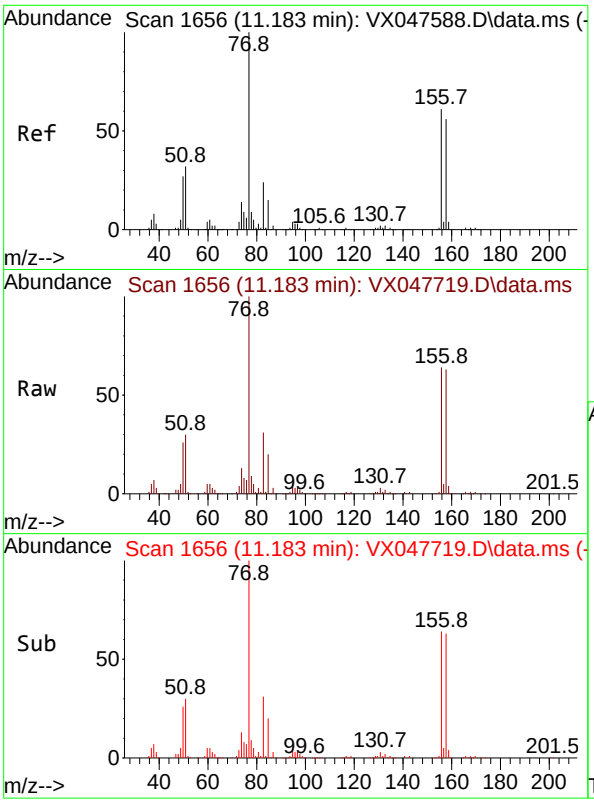


#76
1,2,3-Trichloropropane
Concen: 69.616 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 162179

Ion	Ratio	Lower	Upper
75	100		
77	30.6	18.8	56.4



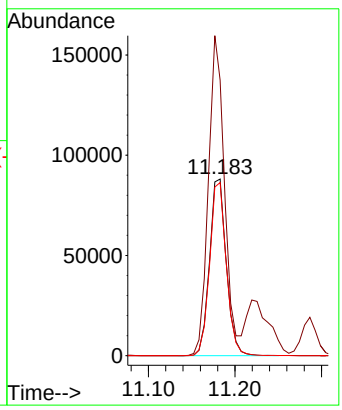


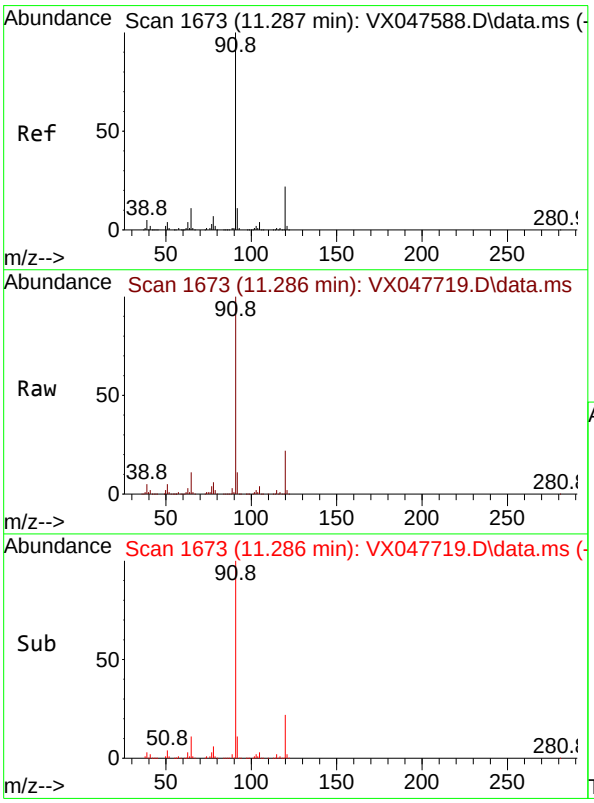
#77
Bromobenzene
Concen: 54.994 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 118485

Ion	Ratio	Lower	Upper
156	100		
77	171.8	89.7	269.1
158	97.5	47.9	143.6

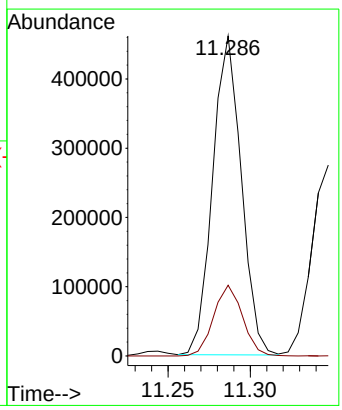


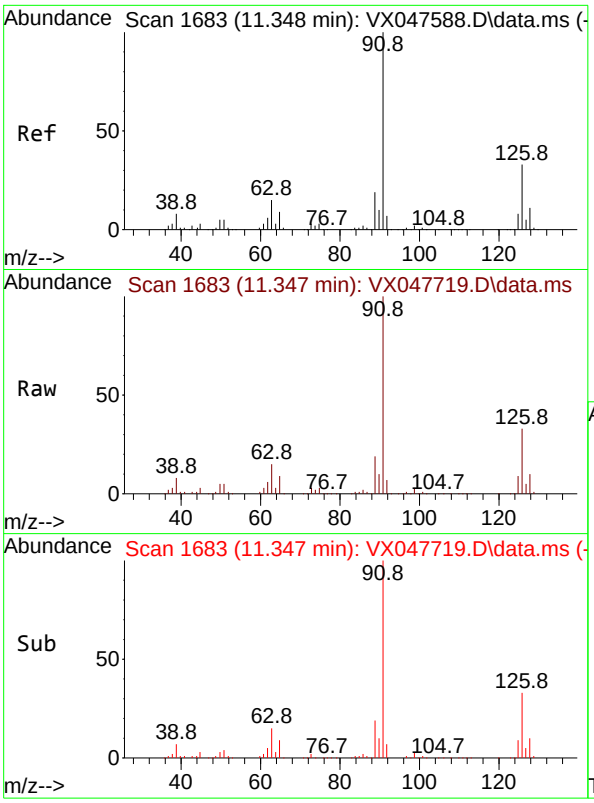


#78
n-propylbenzene
Concen: 53.923 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 557613

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



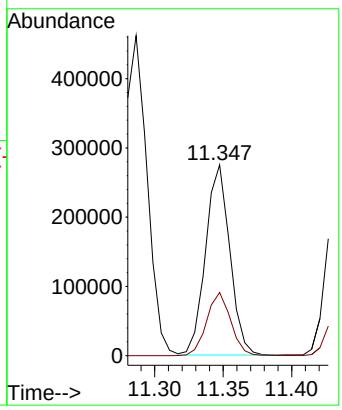


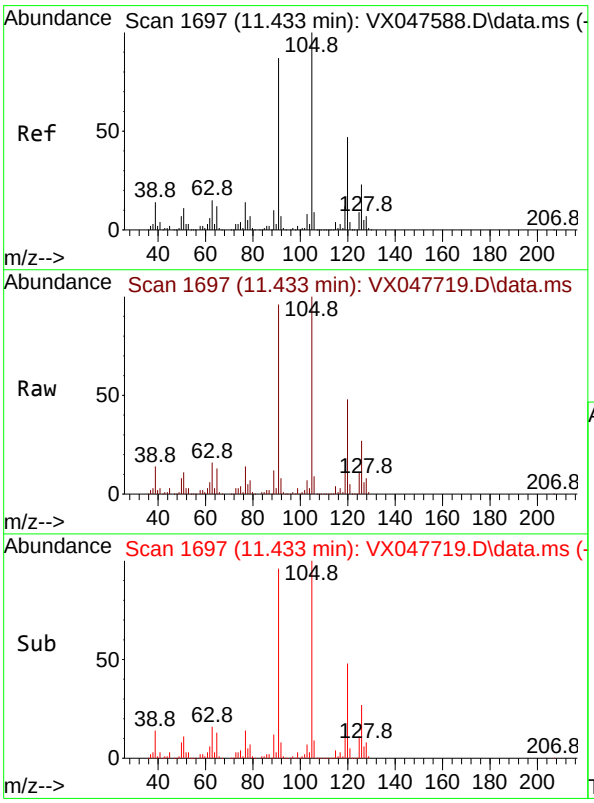
#79
2-Chlorotoluene
Concen: 53.352 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 337904

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.1	48.3

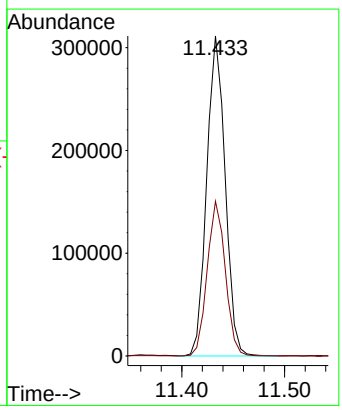


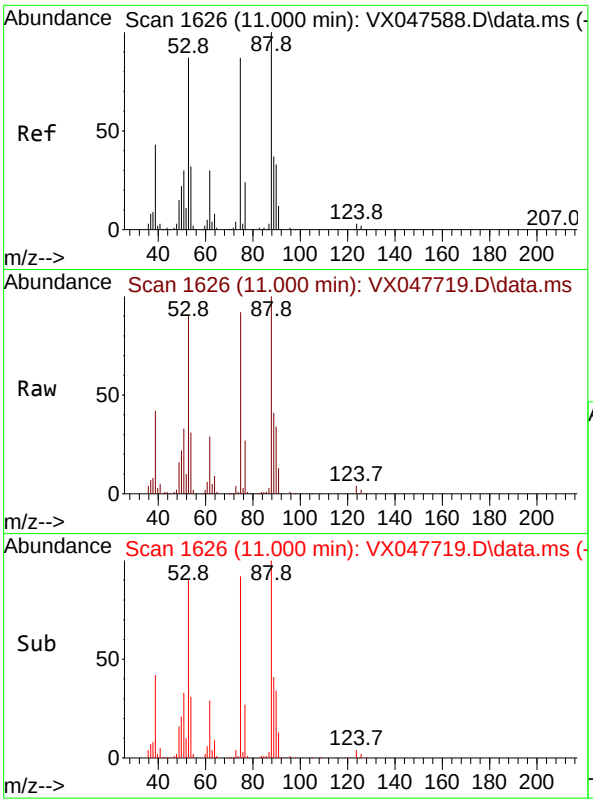


#80
1,3,5-Trimethylbenzene
Concen: 53.867 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 387138

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.6	70.8



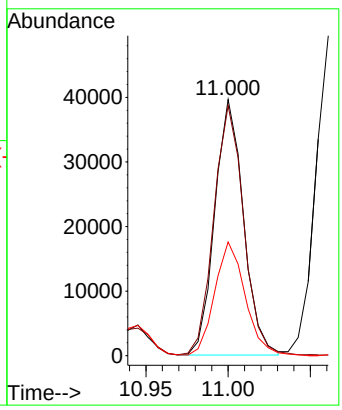


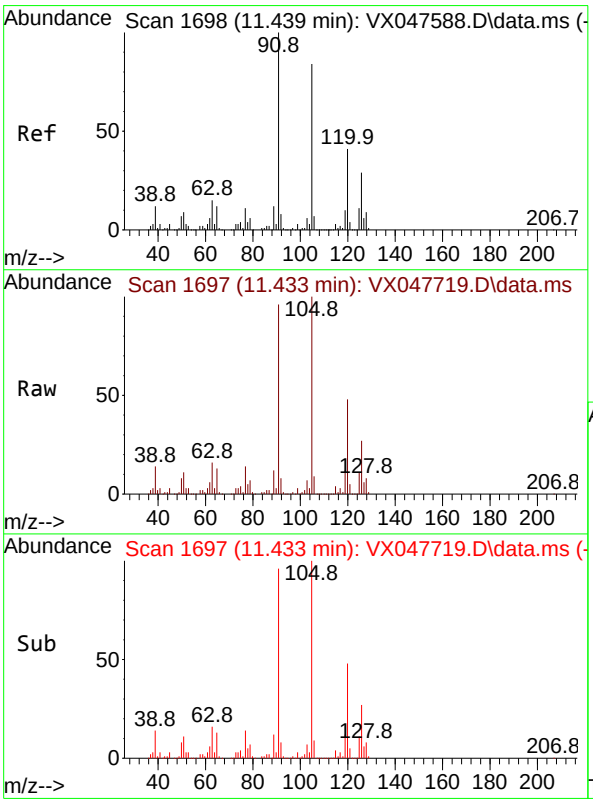
#81
trans-1,4-Dichloro-2-butene
Concen: 52.569 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 48023

Ion	Ratio	Lower	Upper
75	100		
53	101.5	83.4	125.2
89	47.5	36.3	54.5

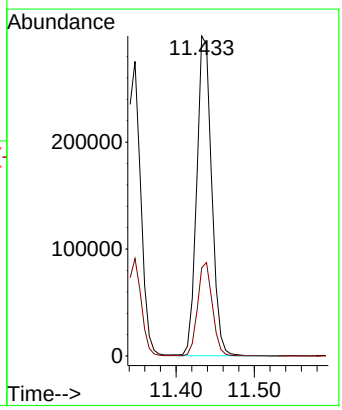


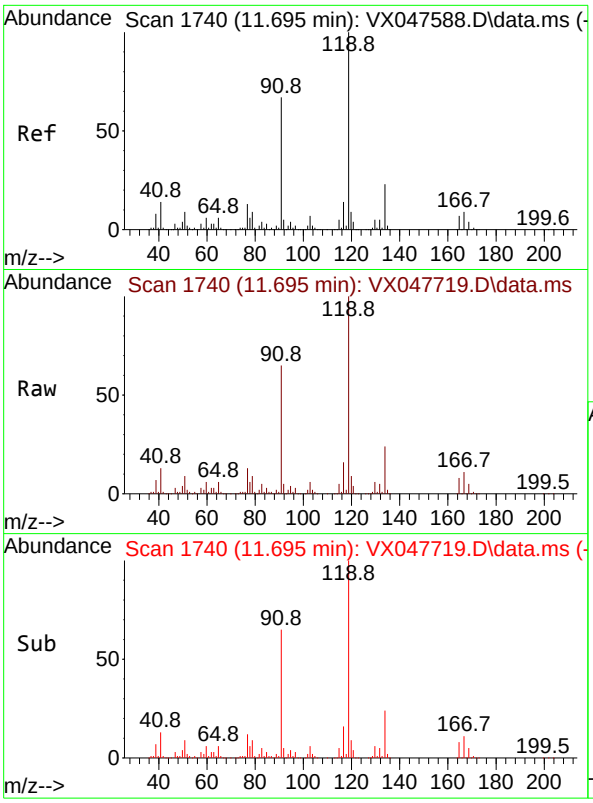


#82
4-Chlorotoluene
Concen: 53.035 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 396717

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6



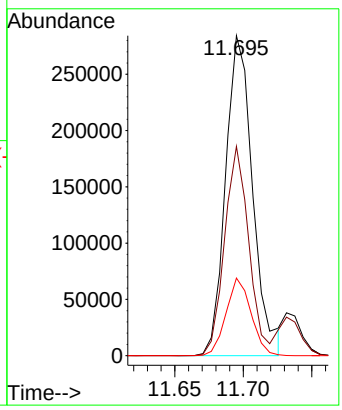


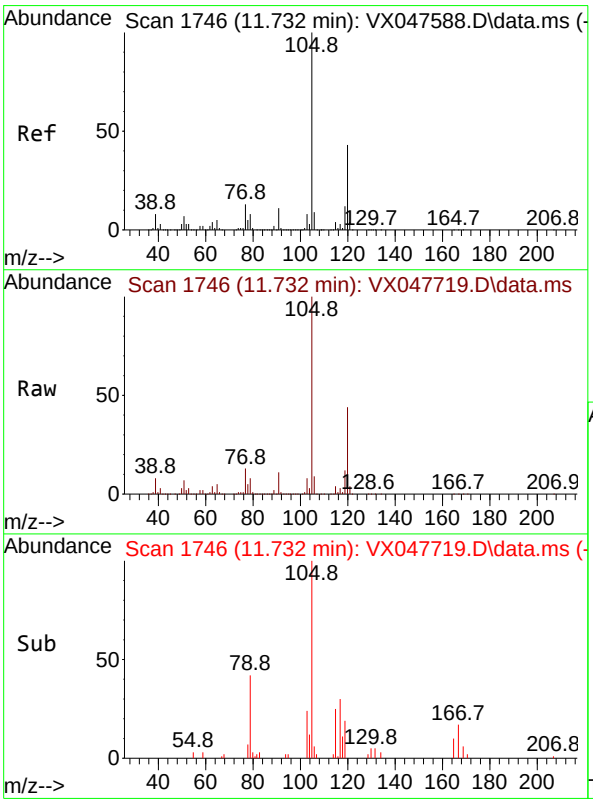
#83
tert-Butylbenzene
Concen: 53.095 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 390632

Ion	Ratio	Lower	Upper
119	100		
91	58.5	29.6	88.8
134	22.4	11.0	33.0

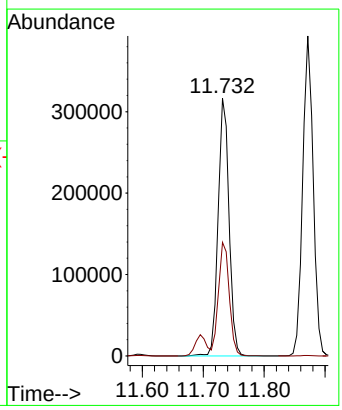


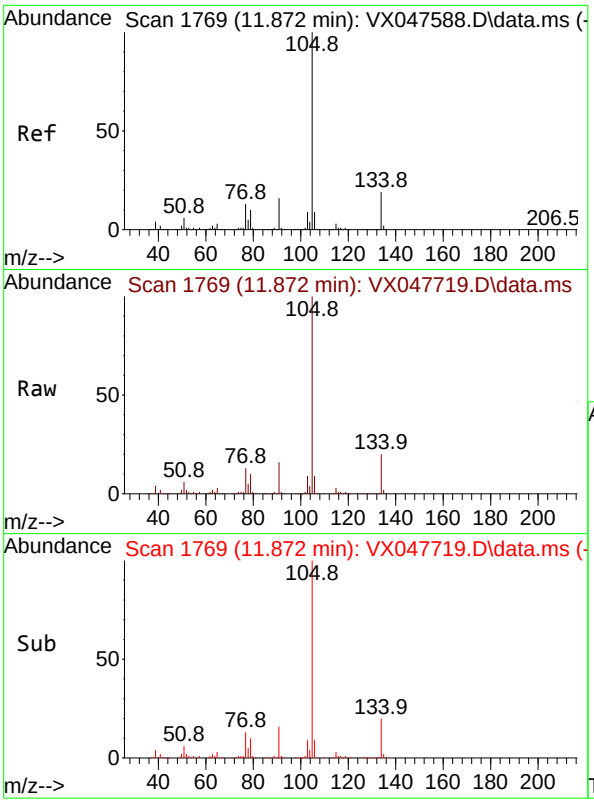


#84
1,2,4-Trimethylbenzene
Concen: 54.142 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 394502

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



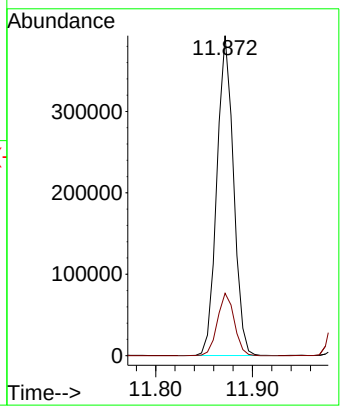


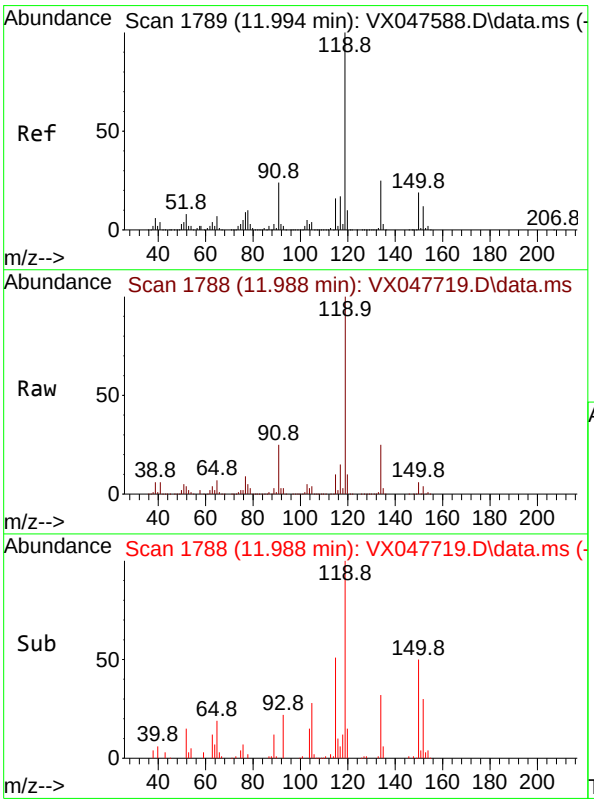
#85
sec-Butylbenzene
Concen: 53.598 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 468381

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

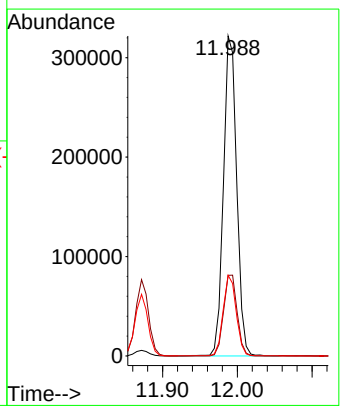


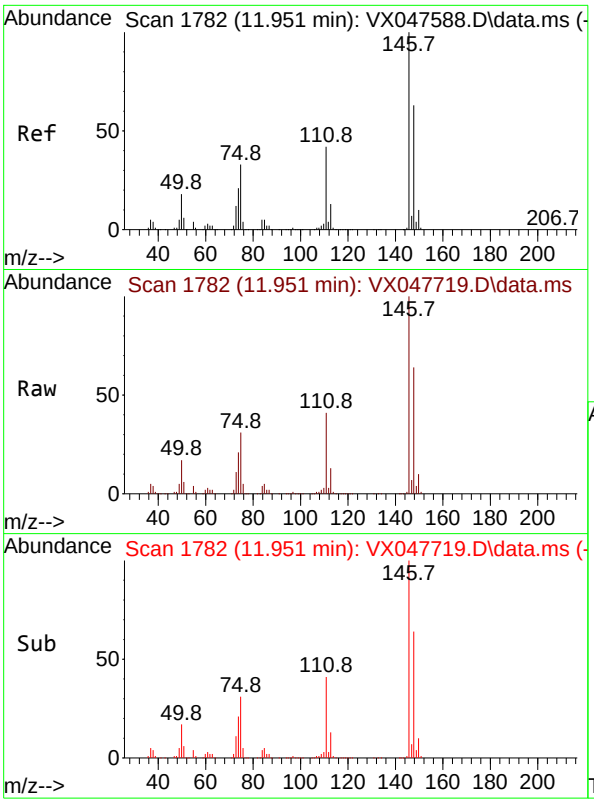


#86
p-Isopropyltoluene
Concen: 53.461 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:119 Resp: 395524

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	24.8	12.6	37.6



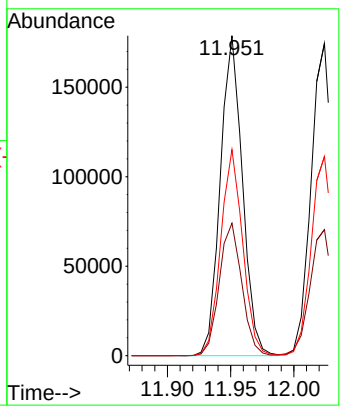


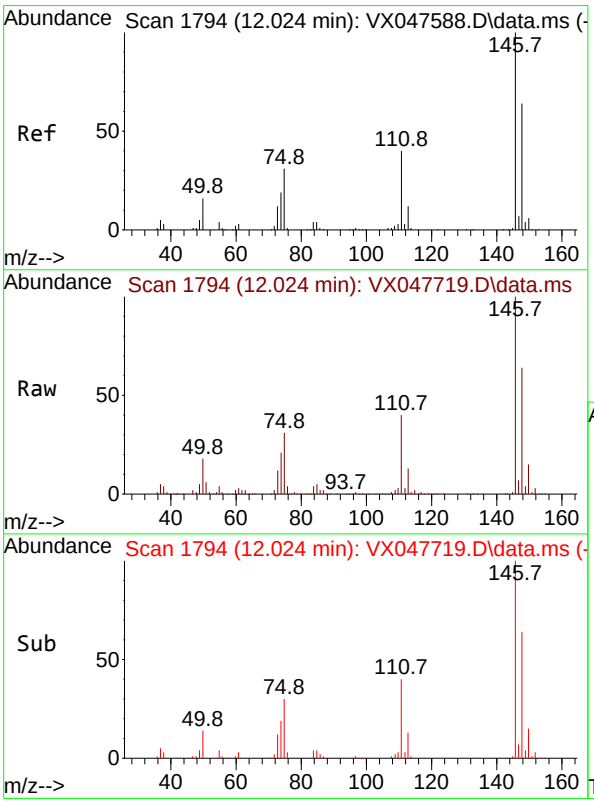
#87
1,3-Dichlorobenzene
Concen: 54.263 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 217150

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	64.0	32.0	96.0

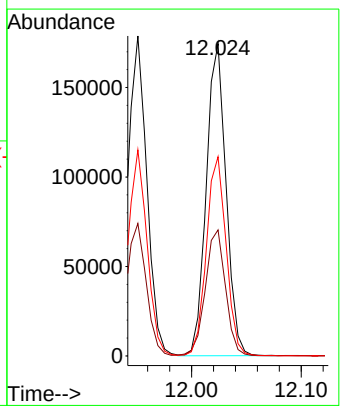


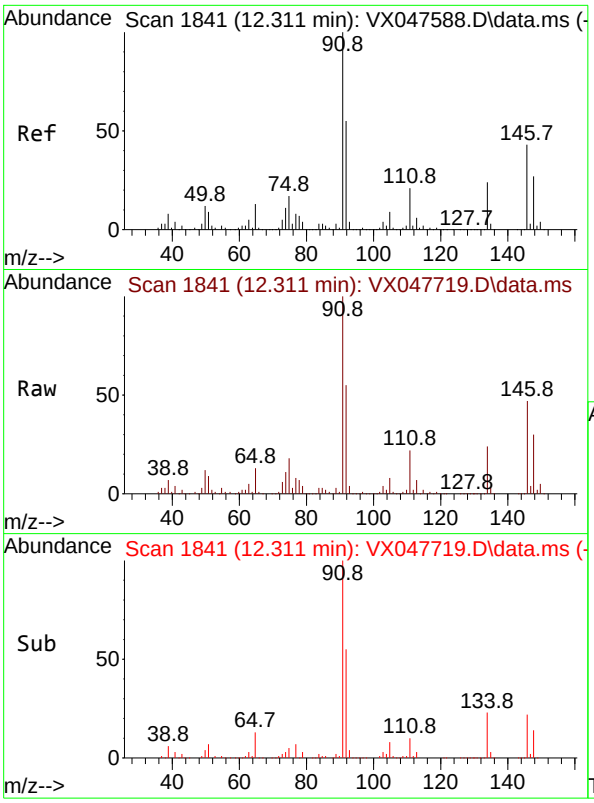


#88
1,4-Dichlorobenzene
Concen: 53.031 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:146 Resp: 217807

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.4
148	64.0	31.7	95.1



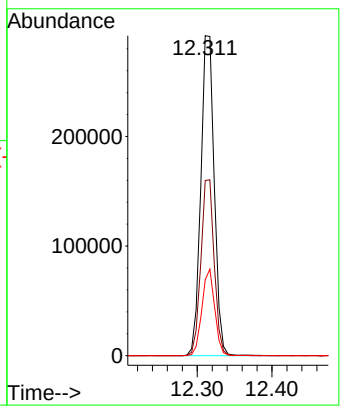


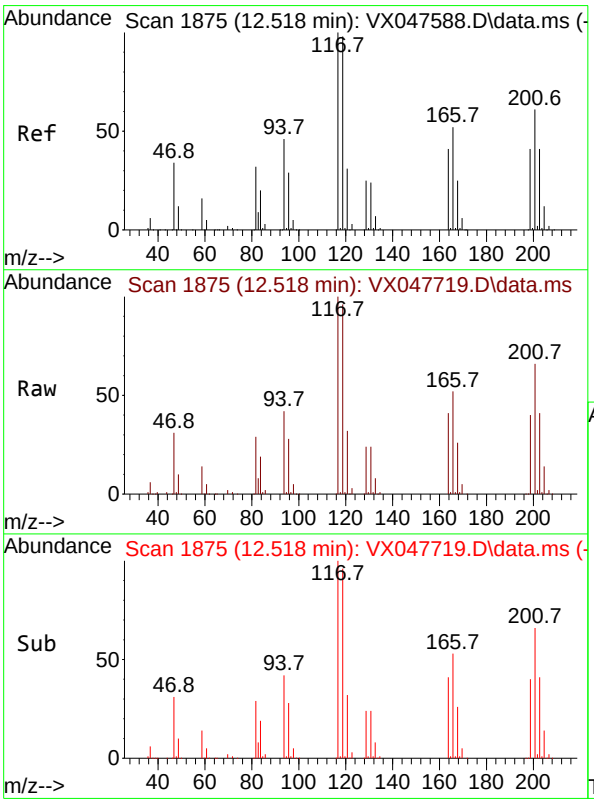
#89
n-Butylbenzene
Concen: 53.292 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 364819

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.7	12.6	37.8

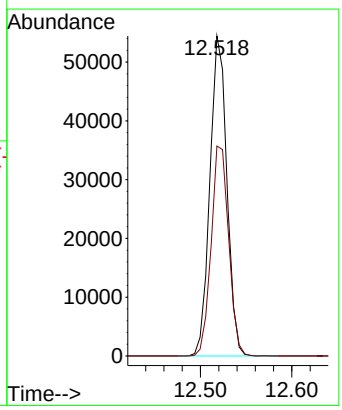


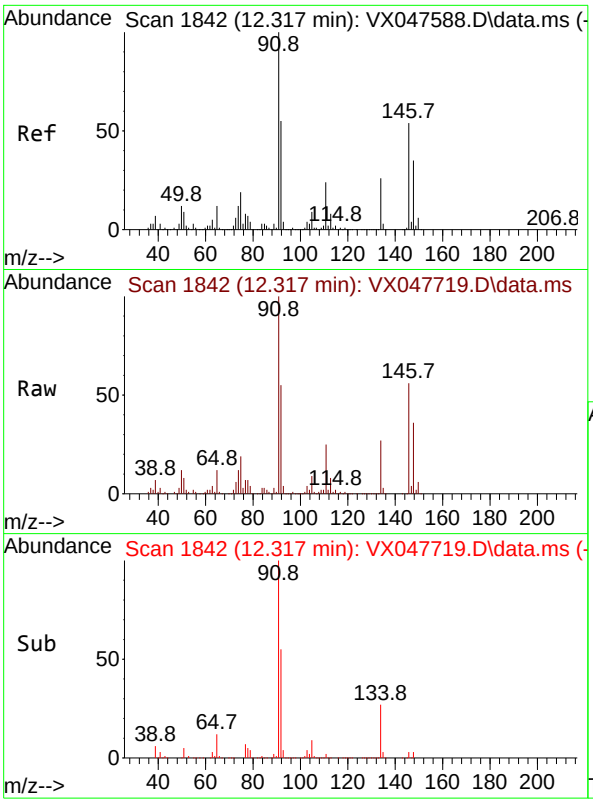


#90
Hexachloroethane
Concen: 53.956 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 70085

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5



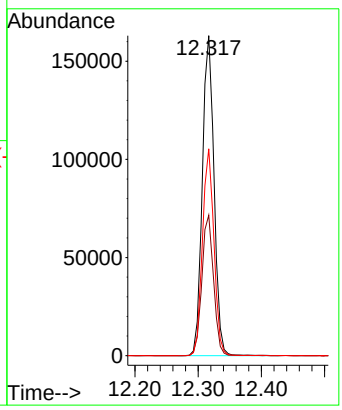


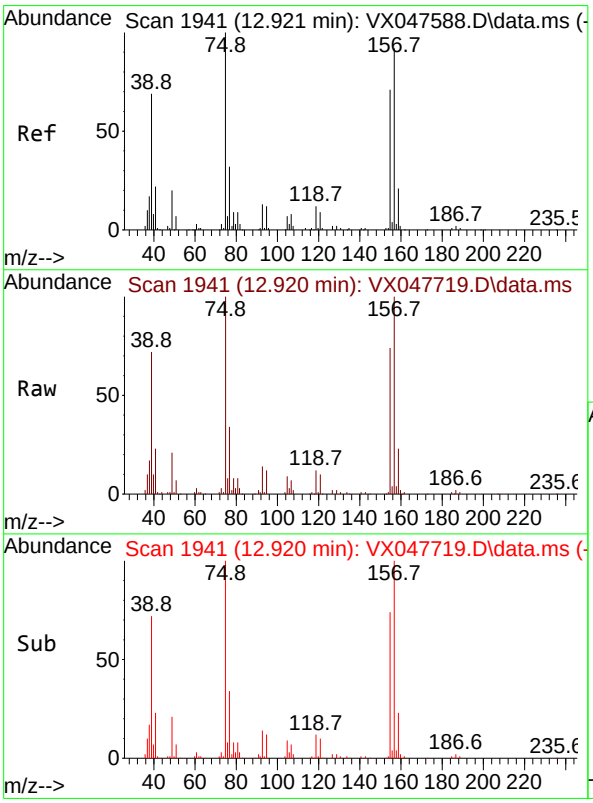
#91
1,2-Dichlorobenzene
Concen: 55.091 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 210035

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.5	31.8	95.4

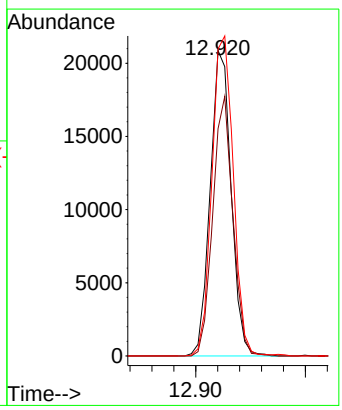


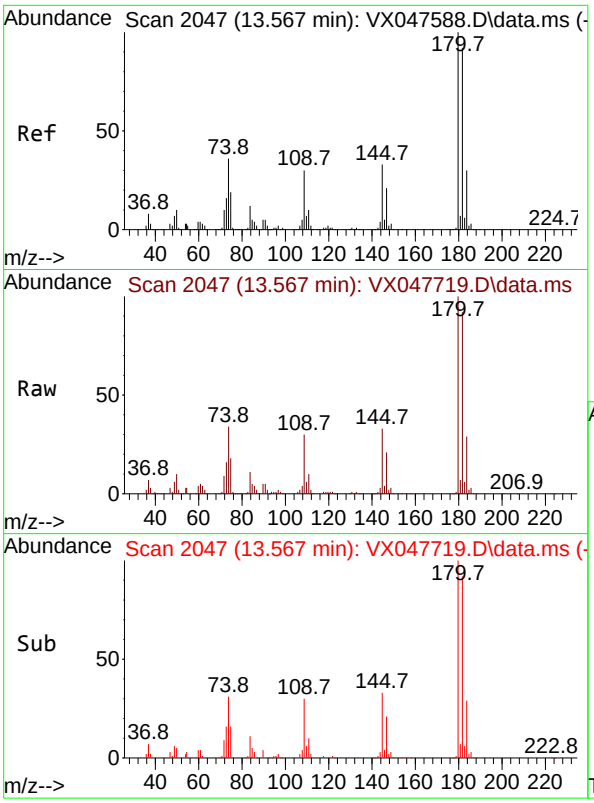


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.656 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 27679

Ion	Ratio	Lower	Upper
75	100		
155	81.6	37.7	113.1
157	107.5	49.8	149.4



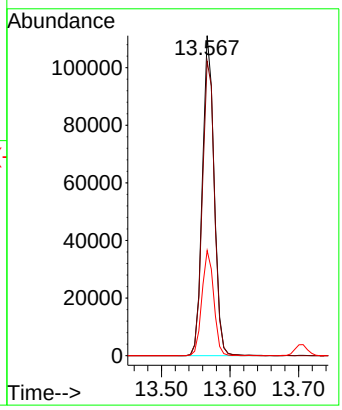


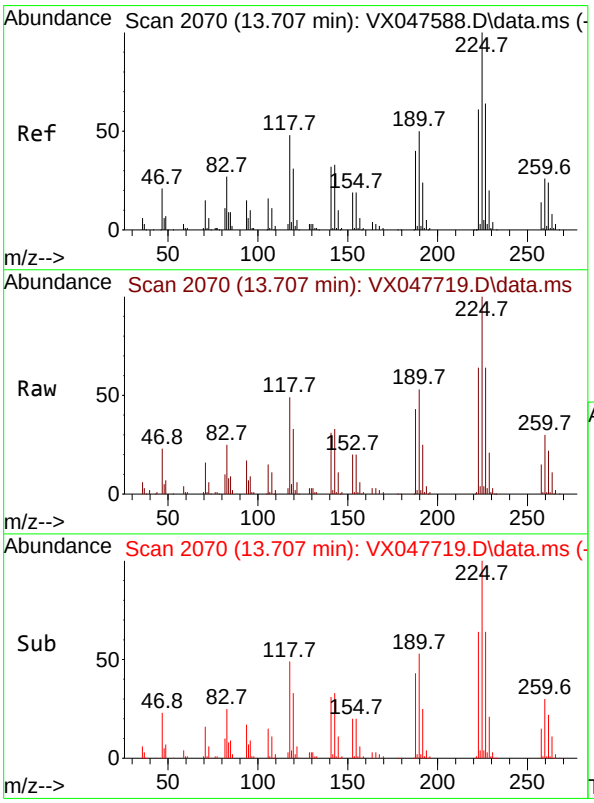
#93
1,2,4-Trichlorobenzene
Concen: 53.421 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 132366

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.1	16.4	49.1

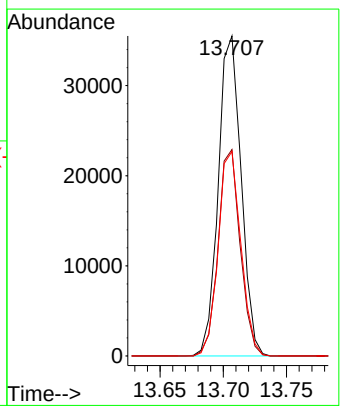


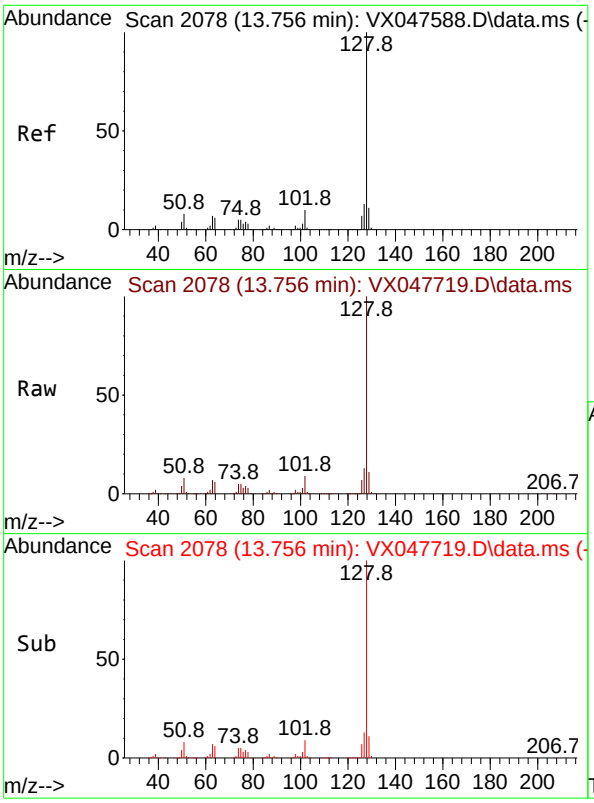


#94
Hexachlorobutadiene
Concen: 52.946 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:225 Resp: 44561

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.7	95.1
227	63.2	32.0	96.0



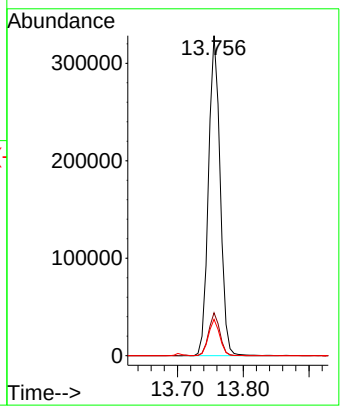


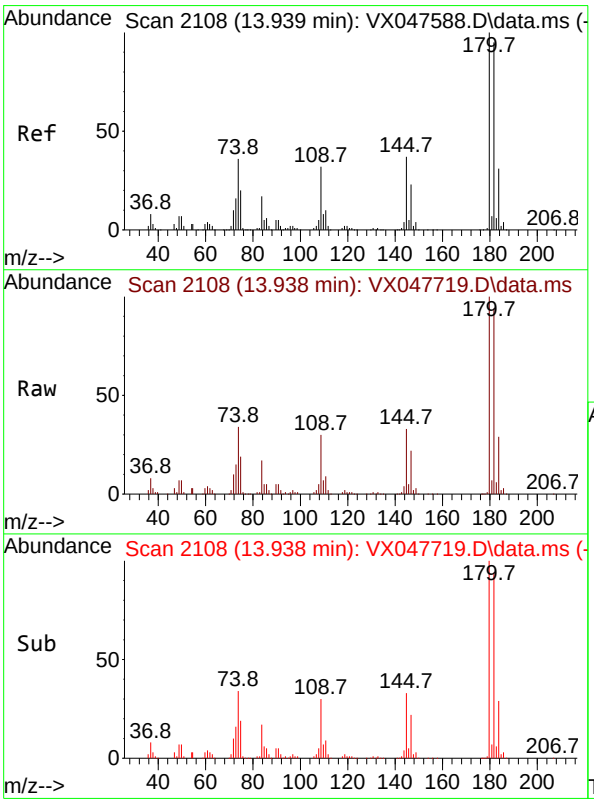
#95
Naphthalene
Concen: 53.744 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 405500

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2

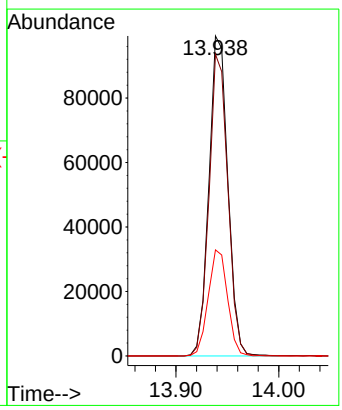




#96
1,2,3-Trichlorobenzene
Concen: 55.060 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:180 Resp: 126908

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.6	142.8
145	33.8	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	181787	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	322664	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	289792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141661	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	130163	44.983	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 89.960%			
35) Dibromofluoromethane	5.367	113	99865	46.149	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.300%			
50) Toluene-d8	8.635	98	347178	46.366	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.740%			
62) 4-Bromofluorobenzene	11.061	95	132914	46.772	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	36156	19.207	ug/l	99
3) Chloromethane	1.301	50	43445	17.560	ug/l	96
4) Vinyl Chloride	1.380	62	42062	17.368	ug/l	99
5) Bromomethane	1.618	94	28441	18.520	ug/l	96
6) Chloroethane	1.697	64	26753	16.528	ug/l	98
7) Trichlorofluoromethane	1.898	101	59843	16.642	ug/l	98
8) Diethyl Ether	2.136	74	24021	16.330	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	35974	17.109	ug/l	99
10) Methyl Iodide	2.453	142	51945	15.841	ug/l	99
11) Tert butyl alcohol	2.934	59	23851	74.010	ug/l	99
12) 1,1-Dichloroethene	2.325	96	36148	16.737	ug/l	94
13) Acrolein	2.233	56	26313	88.603	ug/l	100
14) Allyl chloride	2.666	41	70142	15.738	ug/l	98
15) Acrylonitrile	3.056	53	100750	84.401	ug/l	99
16) Acetone	2.374	43	90216	71.706	ug/l	98
17) Carbon Disulfide	2.514	76	101957	17.244	ug/l	99
18) Methyl Acetate	2.697	43	46539	16.621	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	128594	16.310	ug/l	98
20) Methylene Chloride	2.788	84	43710	16.413	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	39414	16.950	ug/l	96
22) Diisopropyl ether	3.745	45	144354	16.712	ug/l #	79
23) Vinyl Acetate	3.709	43	575126	83.195	ug/l	99
24) 1,1-Dichloroethane	3.599	63	75728	16.495	ug/l	99
25) 2-Butanone	4.538	43	123517	78.705	ug/l	99
26) 2,2-Dichloropropane	4.465	77	60715	15.910	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	46069	16.177	ug/l	97
28) Bromochloromethane	4.885	49	33685	16.807	ug/l	99
29) Tetrahydrofuran	4.995	42	79140	83.826	ug/l	98
30) Chloroform	5.074	83	77095	16.618	ug/l	98
31) Cyclohexane	5.458	56	63808	16.688	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	64618	16.421	ug/l	97
36) 1,1-Dichloropropene	5.672	75	53594	16.949	ug/l	99
37) Ethyl Acetate	4.696	43	53300	15.743	ug/l	99
38) Carbon Tetrachloride	5.666	117	54702	15.922	ug/l	99
39) Methylcyclohexane	7.360	83	62254	17.344	ug/l	97
40) Benzene	6.025	78	160358	16.697	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	30351	17.365	ug/l		96
42) 1,2-Dichloroethane	6.068	62	60128	16.455	ug/l		98
43) Isopropyl Acetate	6.318	43	90880	16.367	ug/l		99
44) Trichloroethene	7.111	130	40550	17.464	ug/l		95
45) 1,2-Dichloropropane	7.409	63	41341	16.811	ug/l		99
46) Dibromomethane	7.562	93	29969	16.746	ug/l		97
47) Bromodichloromethane	7.806	83	61218	16.577	ug/l		100
48) Methyl methacrylate	7.677	41	44713	16.166	ug/l		98
49) 1,4-Dioxane	7.647	88	10693	382.549	ug/l		94
51) 4-Methyl-2-Pentanone	8.555	43	264665	85.968	ug/l		99
52) Toluene	8.702	92	99779	16.863	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	61393	16.298	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	67677	16.810	ug/l		97
55) 1,1,2-Trichloroethane	9.135	97	39130	17.151	ug/l		99
56) Ethyl methacrylate	9.098	69	60408	16.859	ug/l		98
57) 1,3-Dichloropropane	9.293	76	68685	17.525	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	143660	91.195	ug/l		100
59) 2-Hexanone	9.415	43	183521	83.000	ug/l		99
60) Dibromochloromethane	9.506	129	45346	17.249	ug/l		100
61) 1,2-Dibromoethane	9.592	107	40518	17.435	ug/l		99
64) Tetrachloroethene	9.256	164	32372	17.136	ug/l		98
65) Chlorobenzene	10.061	112	109903	16.694	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.147	131	37383	16.455	ug/l		97
67) Ethyl Benzene	10.177	91	189524	16.684	ug/l		98
68) m/p-Xylenes	10.287	106	143444	33.927	ug/l		100
69) o-Xylene	10.622	106	68954	16.861	ug/l		99
70) Styrene	10.640	104	118603	16.552	ug/l		99
71) Bromoform	10.781	173	28237	16.646	ug/l	#	99
73) Isopropylbenzene	10.945	105	177153	16.449	ug/l		99
74) N-amyl acetate	10.823	43	80035	16.296	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	54058	16.590	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	57976	20.213	ug/l		91
77) Bromobenzene	11.183	156	43202	16.287	ug/l		98
78) n-propylbenzene	11.287	91	213079	16.736	ug/l		100
79) 2-Chlorotoluene	11.348	91	128239	16.446	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	147832	16.707	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	16574	14.736	ug/l		99
82) 4-Chlorotoluene	11.439	91	153584	16.677	ug/l		100
83) tert-Butylbenzene	11.695	119	149430	16.497	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	150232	16.747	ug/l		100
85) sec-Butylbenzene	11.872	105	181026	16.825	ug/l		100
86) p-Isopropyltoluene	11.994	119	154052	16.913	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	83142	16.875	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	83968	16.605	ug/l		99
89) n-Butylbenzene	12.317	91	144464	17.140	ug/l		99
90) Hexachloroethane	12.518	117	25557	15.981	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	78309	16.683	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	10024	15.194	ug/l		95
93) 1,2,4-Trichlorobenzene	13.567	180	49366	16.182	ug/l		99
94) Hexachlorobutadiene	13.707	225	17786	17.165	ug/l		98
95) Naphthalene	13.756	128	146235	15.742	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	46461	16.373	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

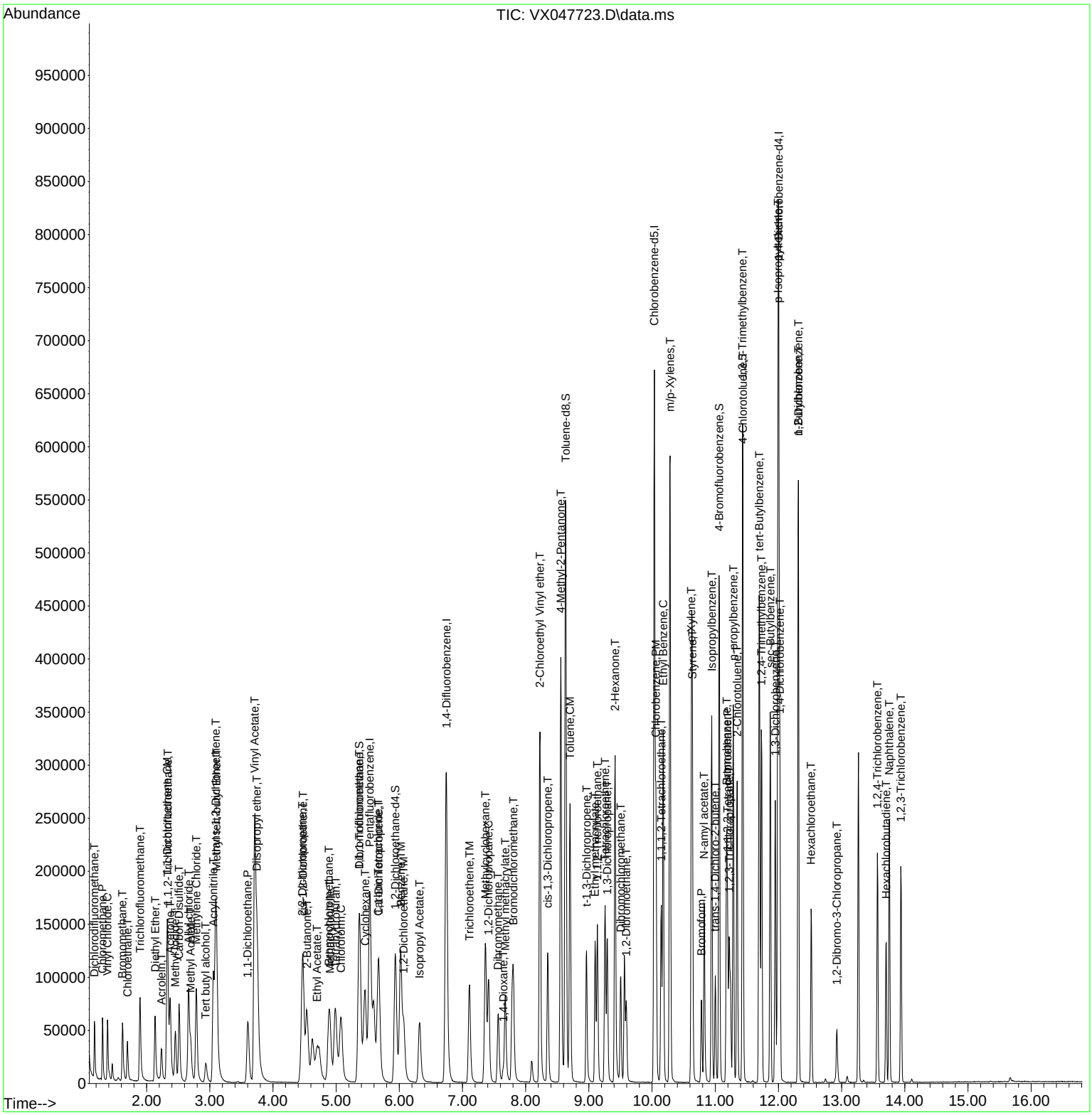
(#) = qualifier out of range (m) = manual integration (+) = signals summed

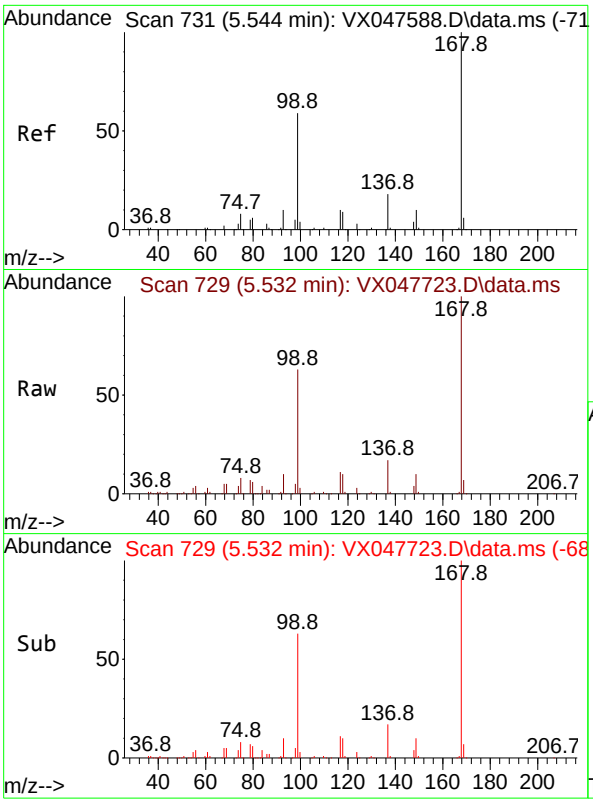
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



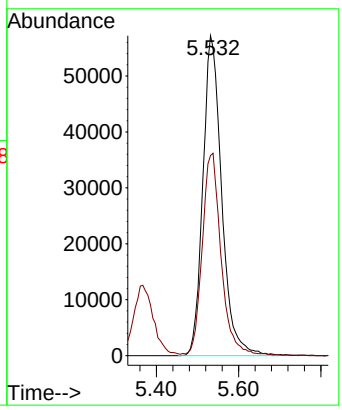


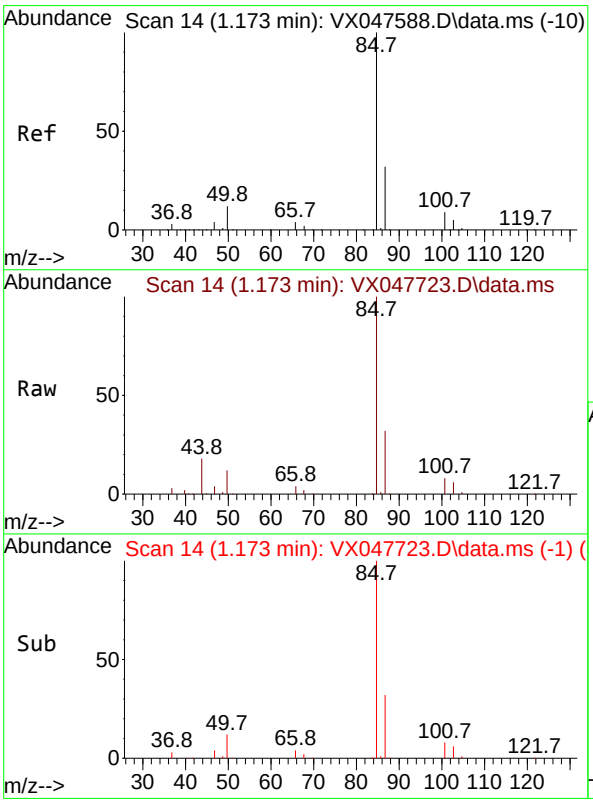
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:168 Resp: 181787

Ion	Ratio	Lower	Upper
168	100		
99	62.3	48.8	73.2

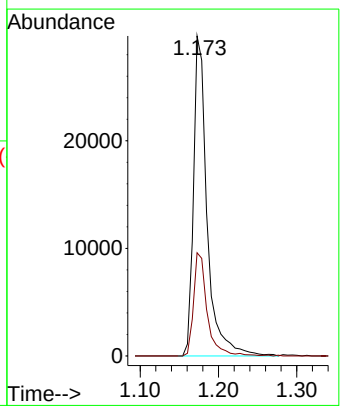


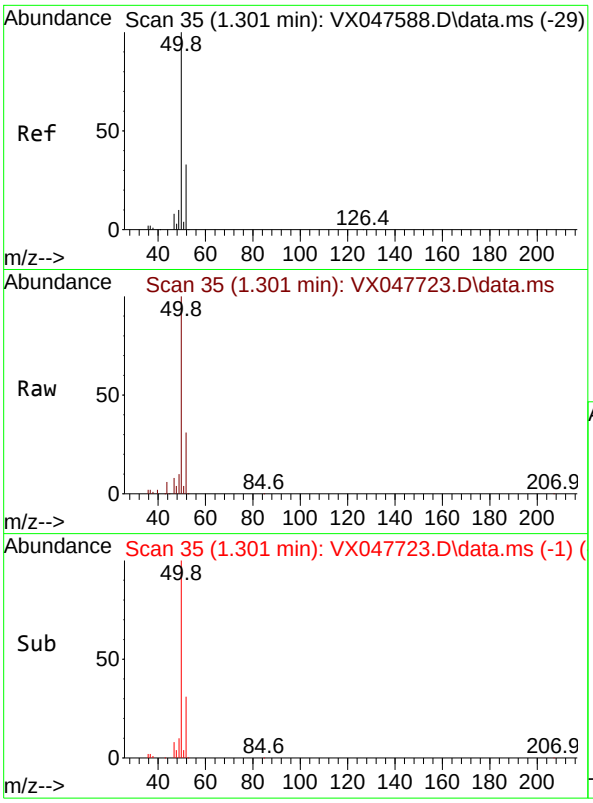


#2
Dichlorodifluoromethane
Concen: 19.207 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 85 Resp: 36156

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3



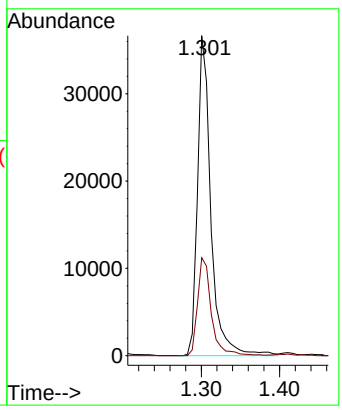


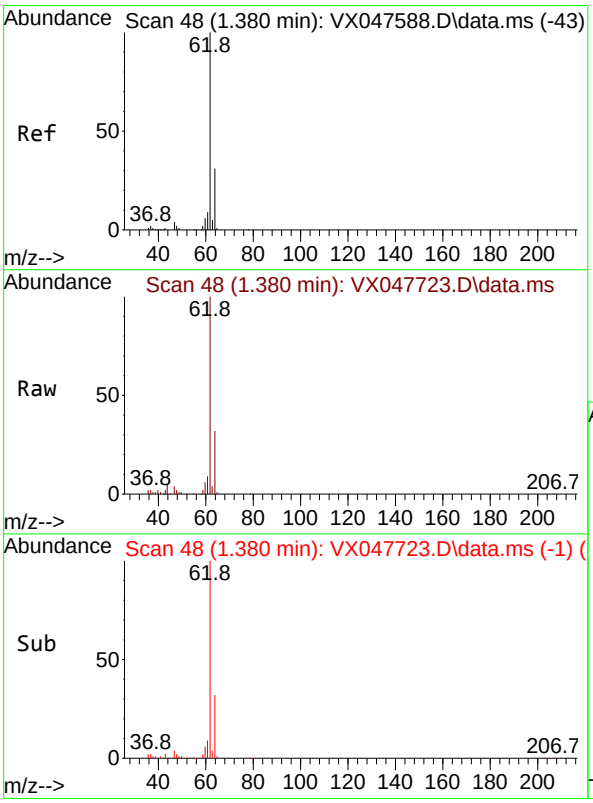
#3
Chloromethane
Concen: 17.560 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 50 Resp: 43445

Ion	Ratio	Lower	Upper
50	100		
52	30.6	26.1	39.1

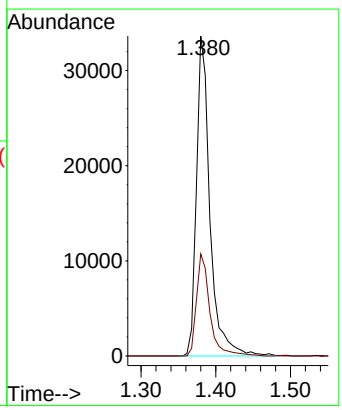


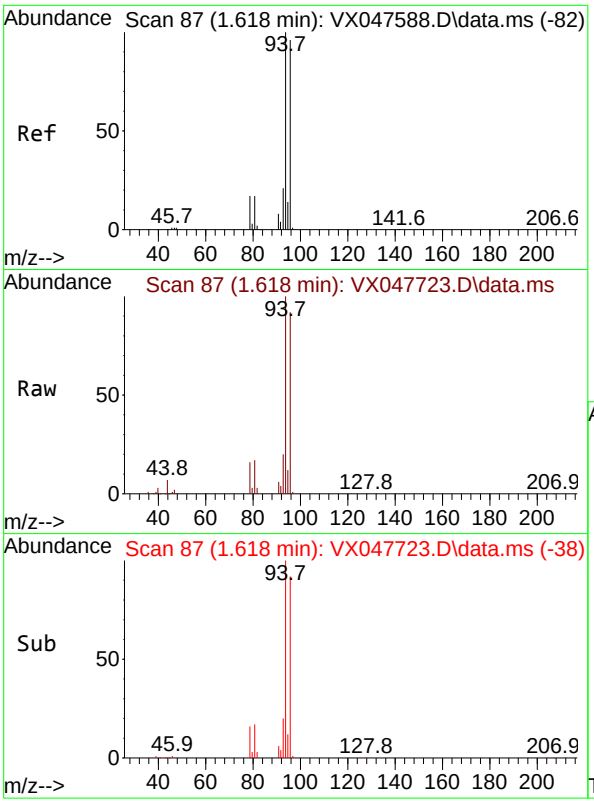


#4
Vinyl Chloride
Concen: 17.368 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 42062

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3



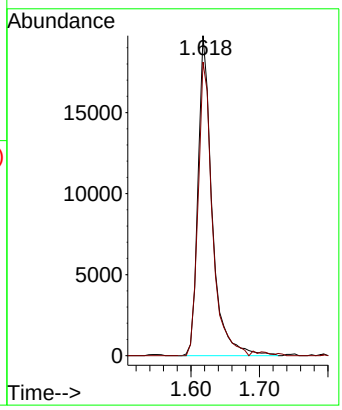


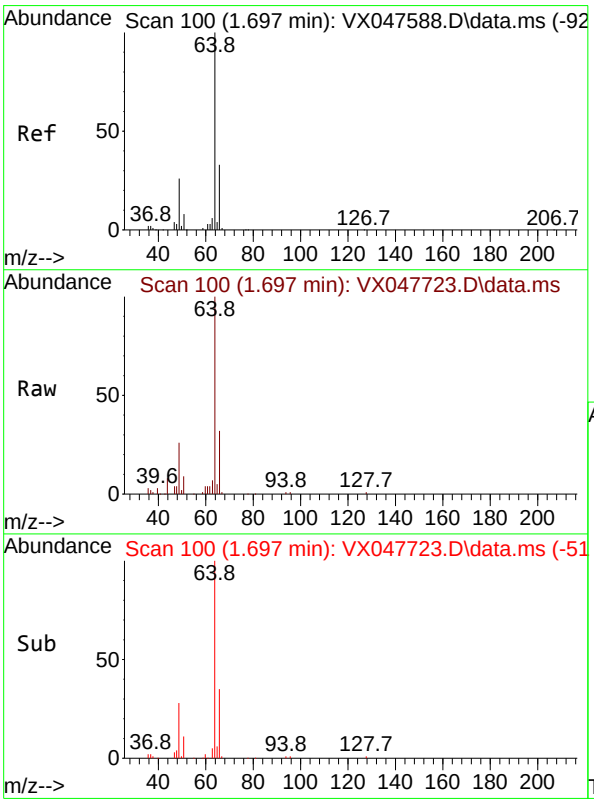
#5
Bromomethane
Concen: 18.520 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 94 Resp: 28441

Ion	Ratio	Lower	Upper
94	100		
96	91.8	76.6	115.0

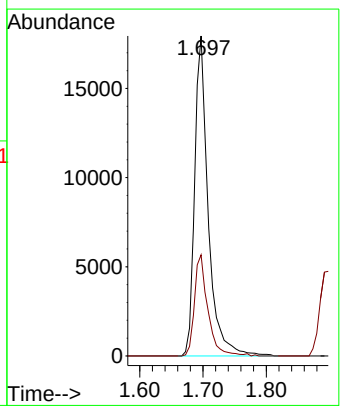


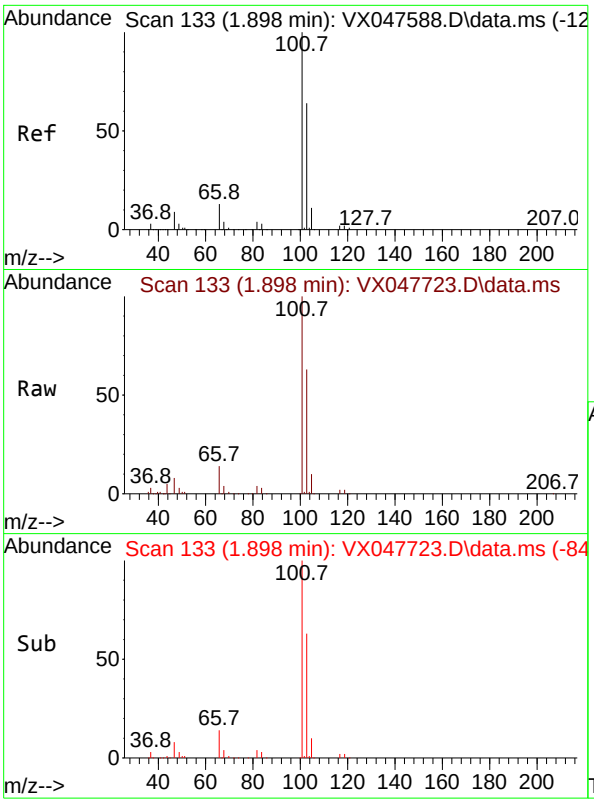


#6
Chloroethane
Concen: 16.528 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 64 Resp: 26753

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.1	39.1



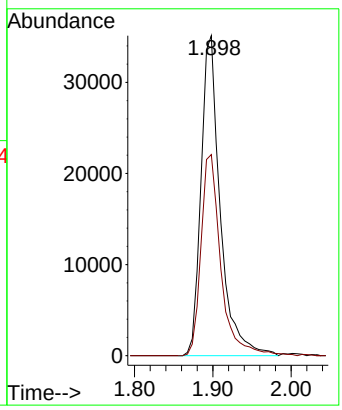


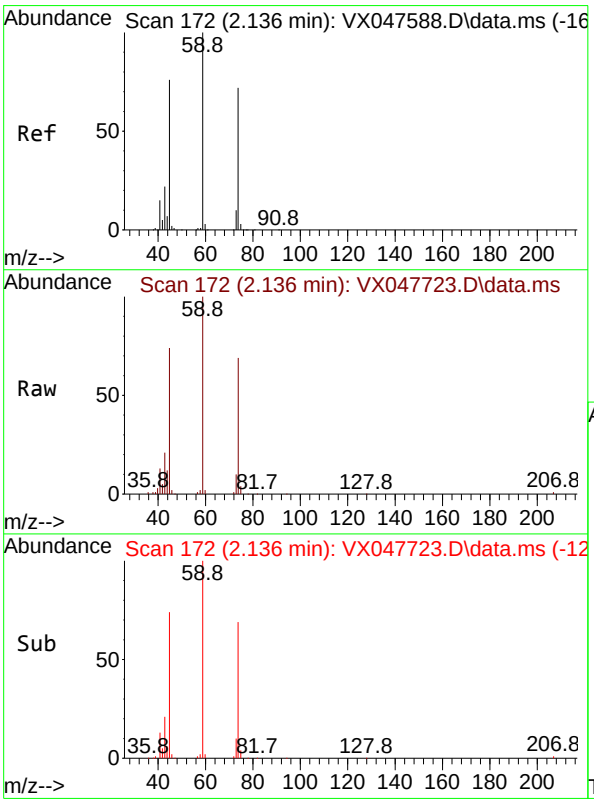
#7
Trichlorofluoromethane
Concen: 16.642 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:101 Resp: 59843

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2

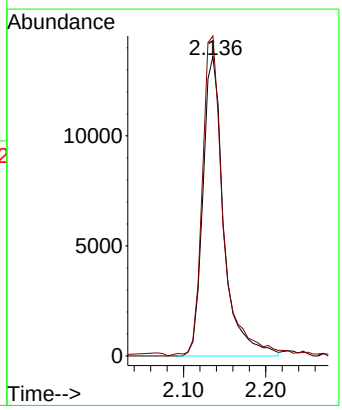


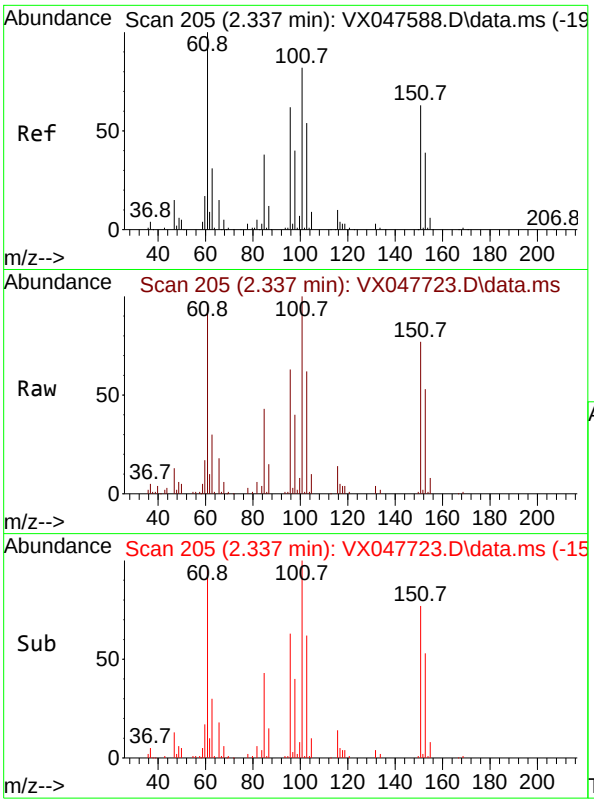


#8
Diethyl Ether
Concen: 16.330 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 74 Resp: 24021

Ion	Ratio	Lower	Upper
74	100		
45	108.1	52.3	156.8



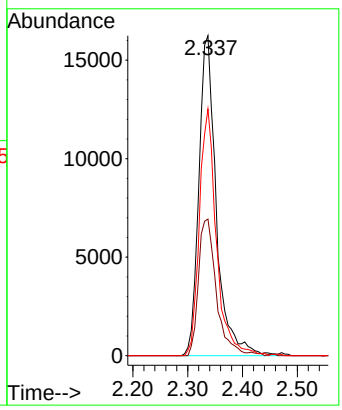


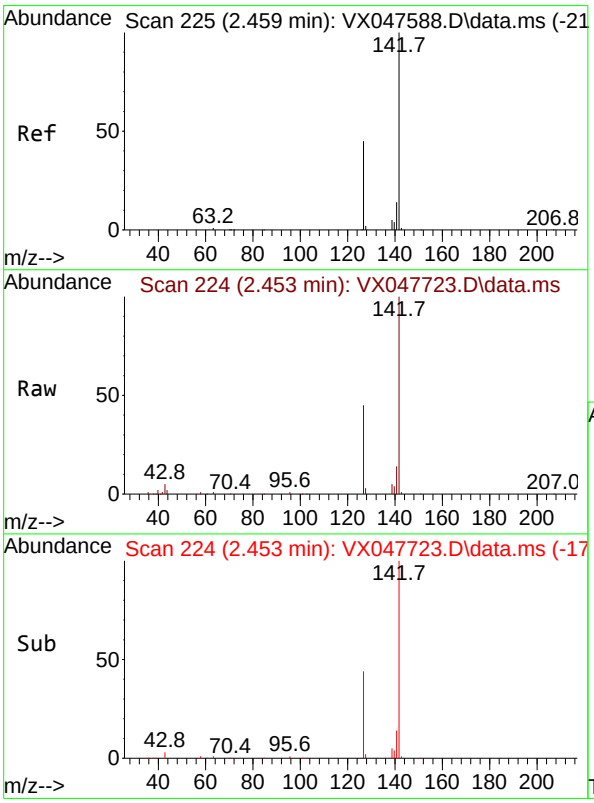
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.109 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:101 Resp: 35974

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	75.1	59.4	89.0

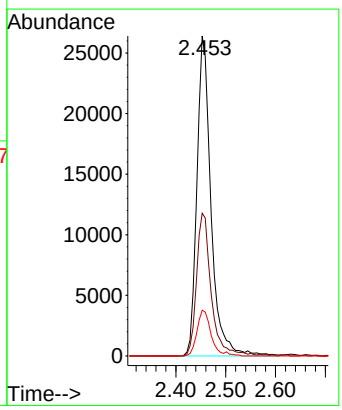


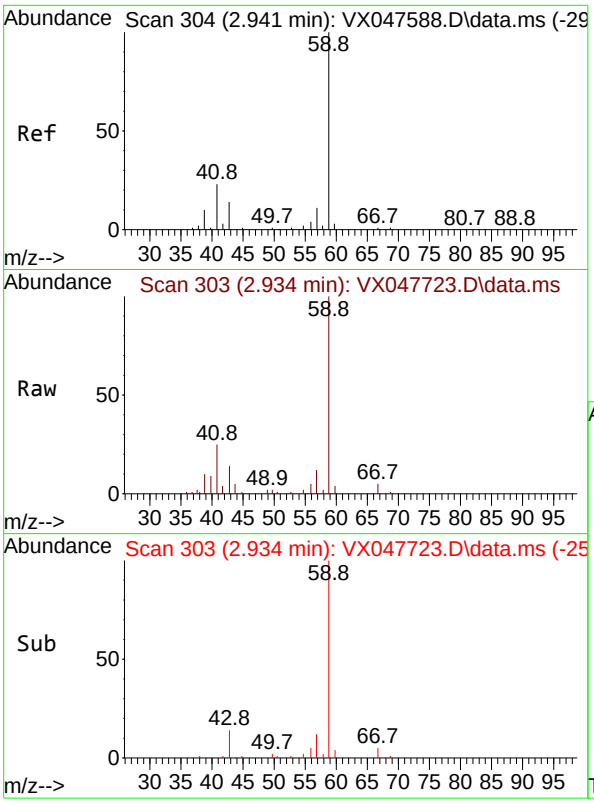


#10
Methyl Iodide
Concen: 15.841 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:142 Resp: 51945

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	14.3	11.4	17.0



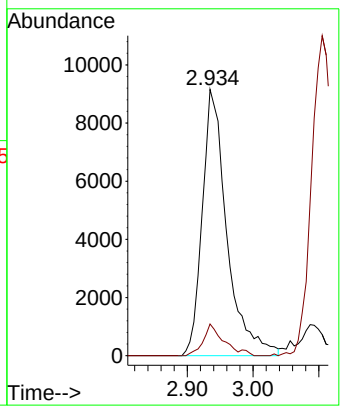


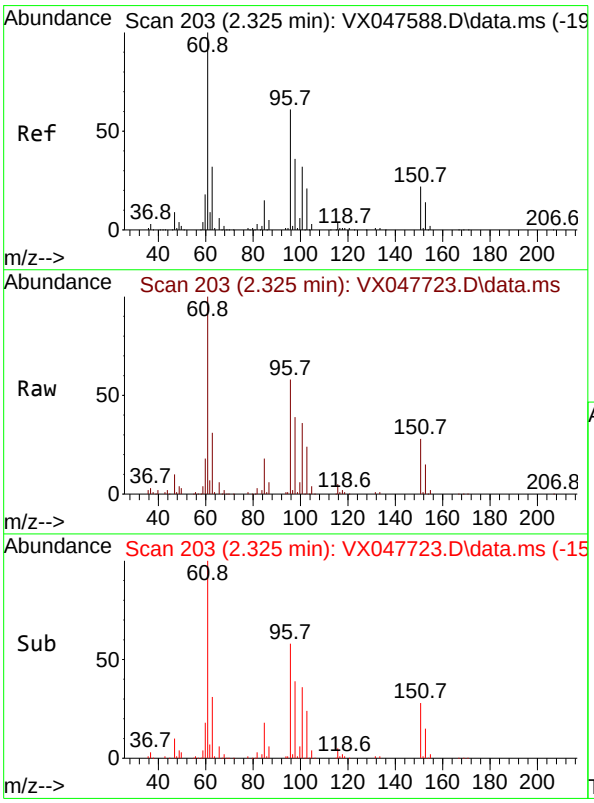
#11
Tert butyl alcohol
Concen: 74.010 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 59 Resp: 23851

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

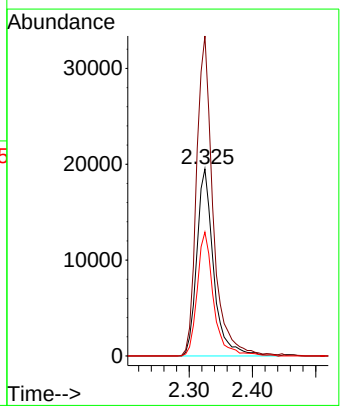


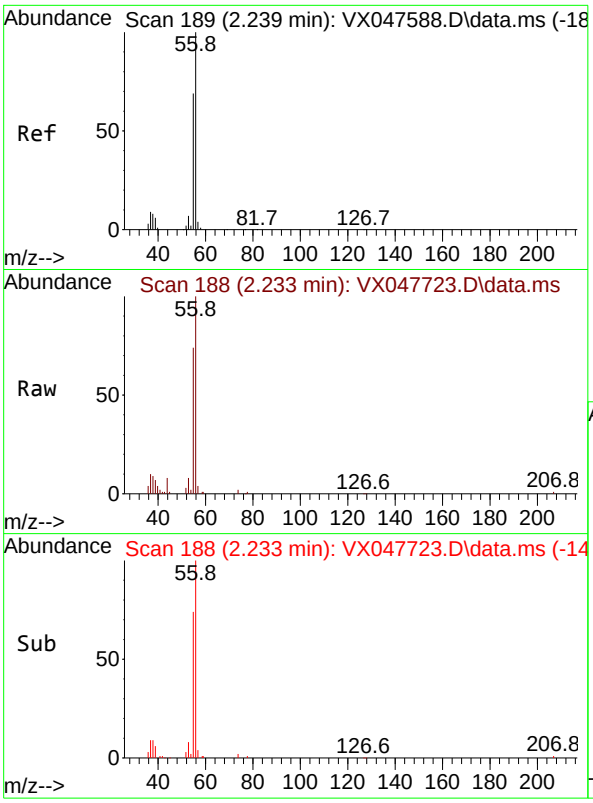


#12
1,1-Dichloroethene
Concen: 16.737 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 36148

Ion	Ratio	Lower	Upper
96	100		
61	171.1	131.0	196.6
98	66.2	47.7	71.5



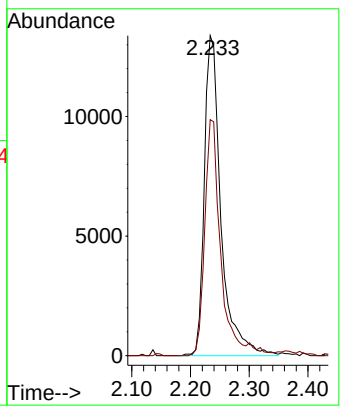


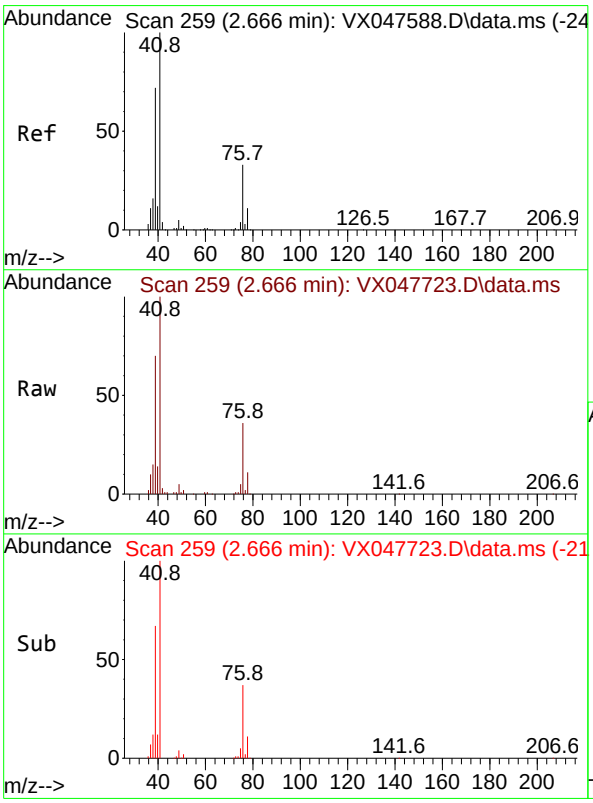
#13
Acrolein
Concen: 88.603 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 56 Resp: 26313

Ion	Ratio	Lower	Upper
56	100		
55	71.4	57.2	85.8

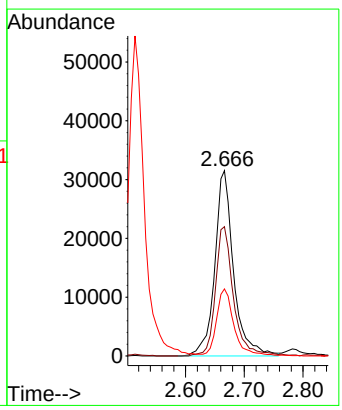


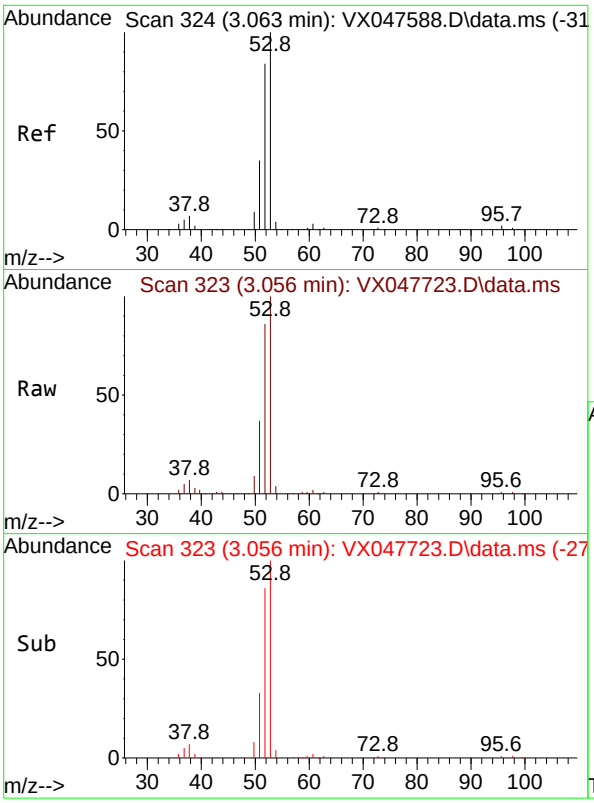


#14
Allyl chloride
Concen: 15.738 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 70142

Ion	Ratio	Lower	Upper
41	100		
39	67.1	54.7	82.1
76	33.8	25.7	38.5



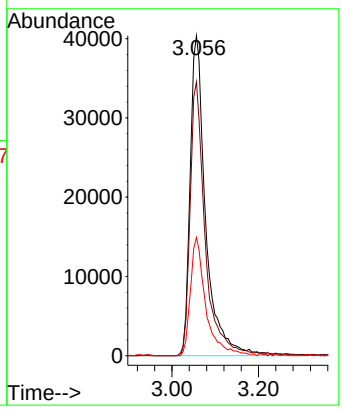


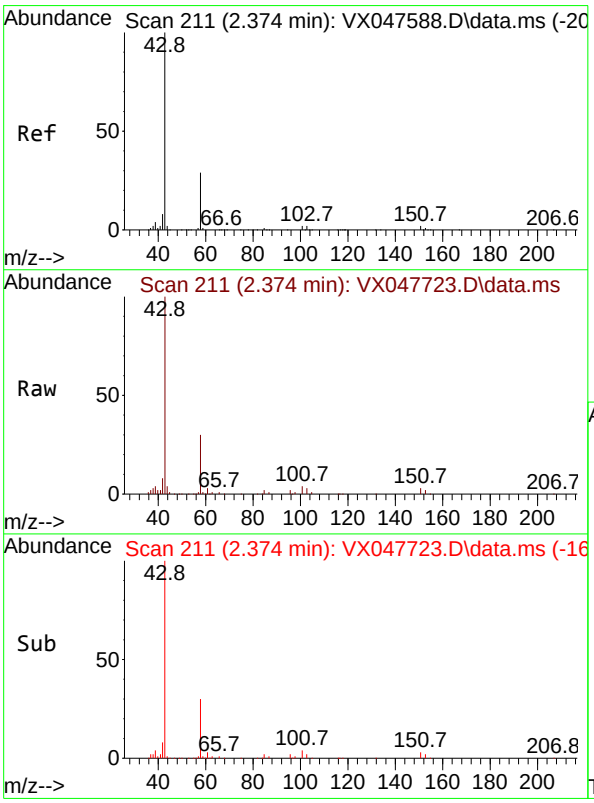
#15
Acrylonitrile
Concen: 84.401 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 53 Resp: 100750

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.7	29.5	44.3

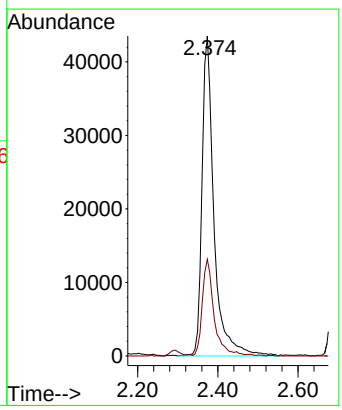


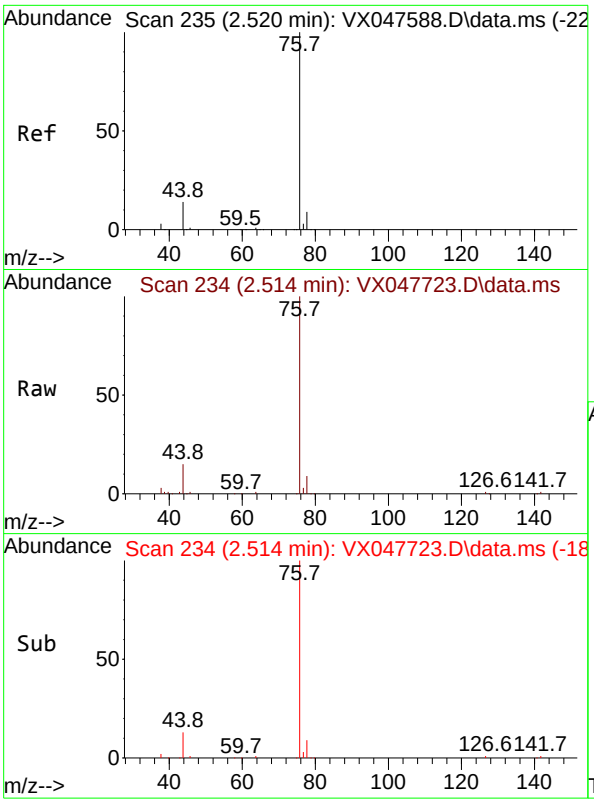


#16
Acetone
Concen: 71.706 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 90216

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.4	35.0



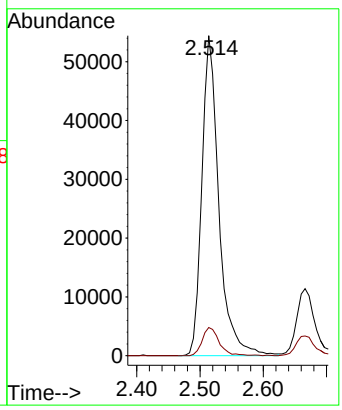


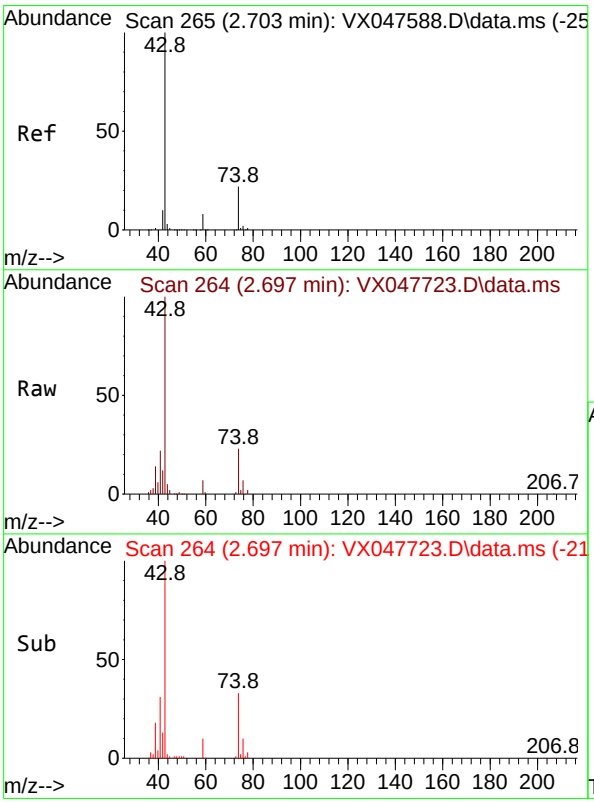
#17
Carbon Disulfide
Concen: 17.244 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 76 Resp: 101957

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

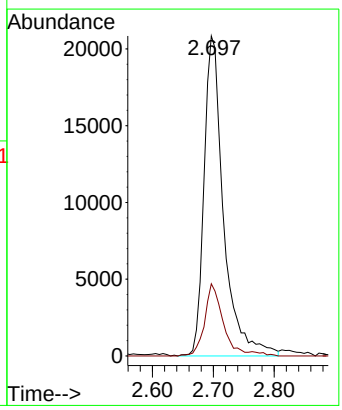


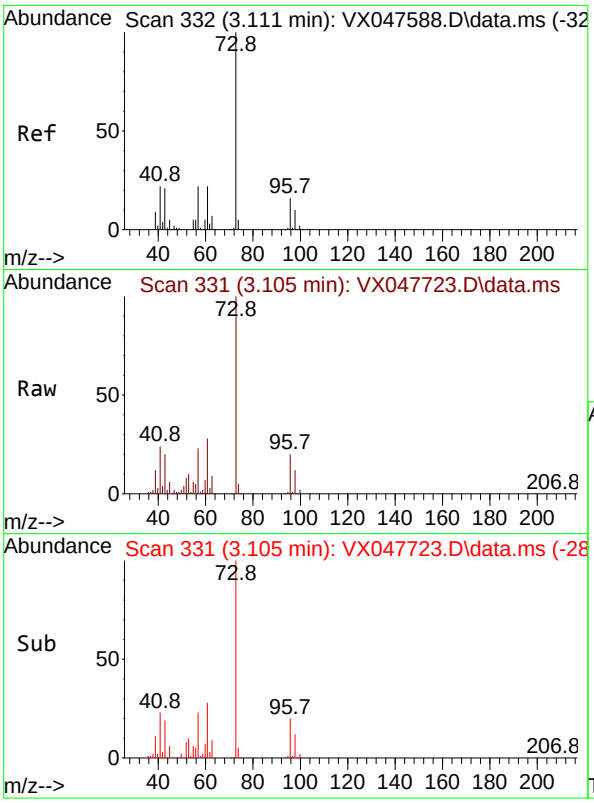


#18
Methyl Acetate
Concen: 16.621 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 46539

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.4	26.2



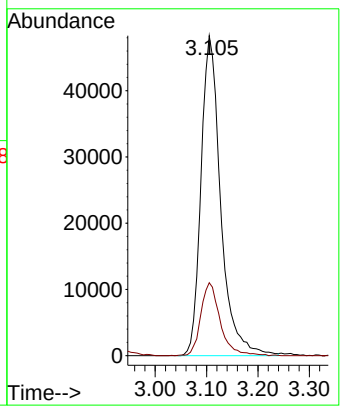


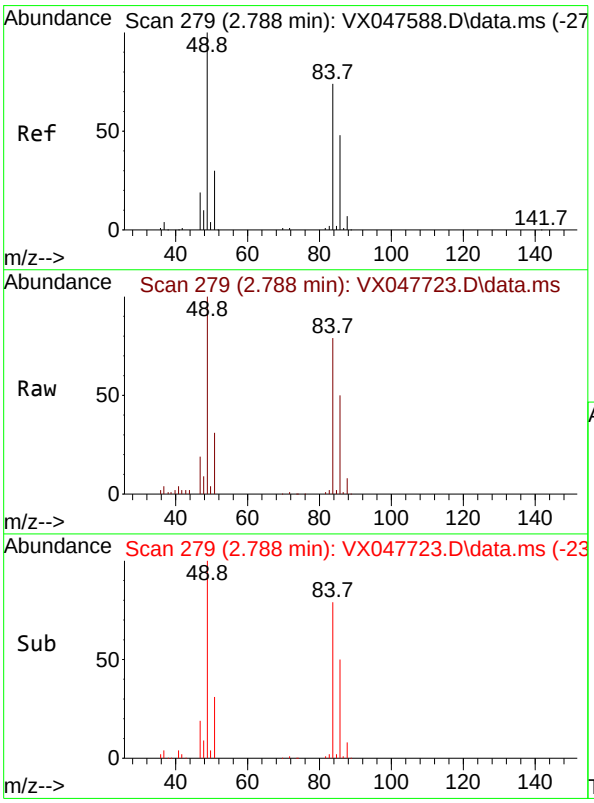
#19
Methyl tert-butyl Ether
Concen: 16.310 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 73 Resp: 128594

Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.4	26.2

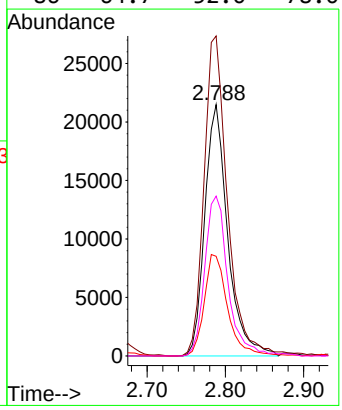


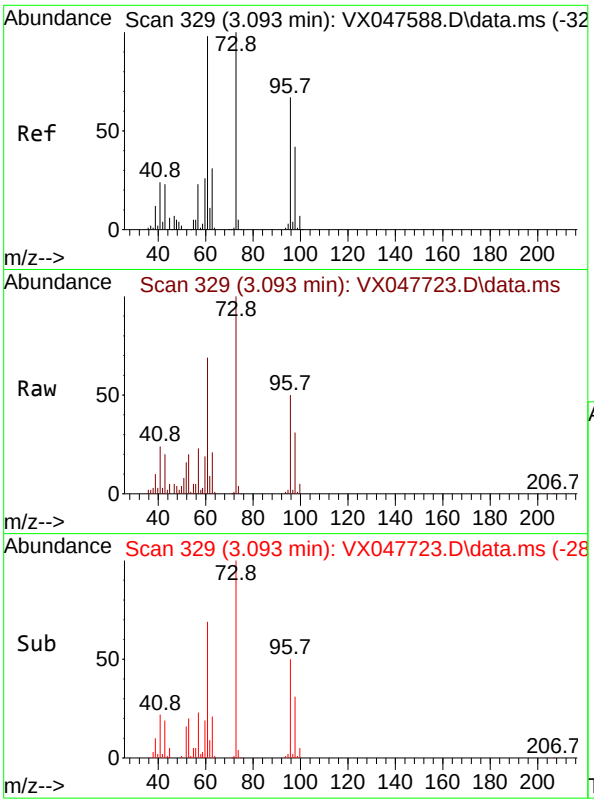


#20
Methylene Chloride
Concen: 16.413 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 84 Resp: 43710

Ion	Ratio	Lower	Upper
84	100		
49	127.3	108.6	162.8
51	39.7	32.6	48.8
86	64.7	52.0	78.0



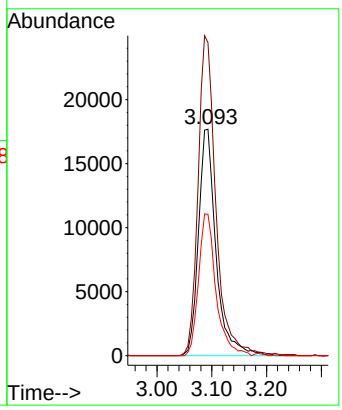


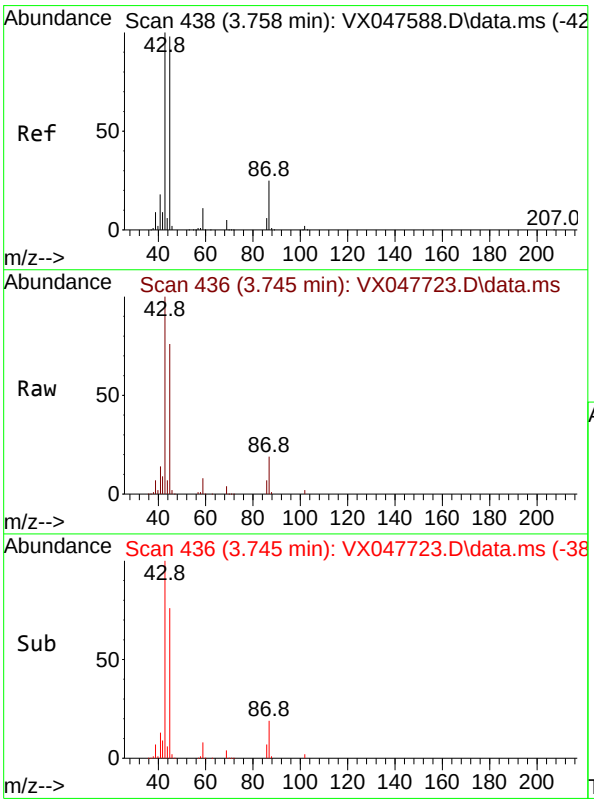
#21
trans-1,2-Dichloroethene
Concen: 16.950 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 96 Resp: 39414

Ion	Ratio	Lower	Upper
96	100		
61	138.3	116.2	174.2
98	62.5	49.3	73.9

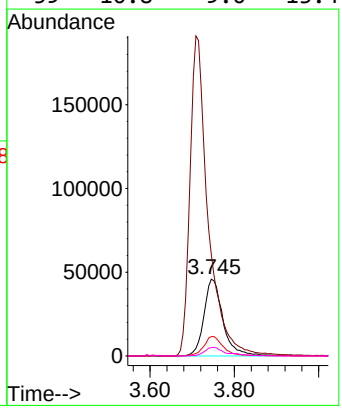


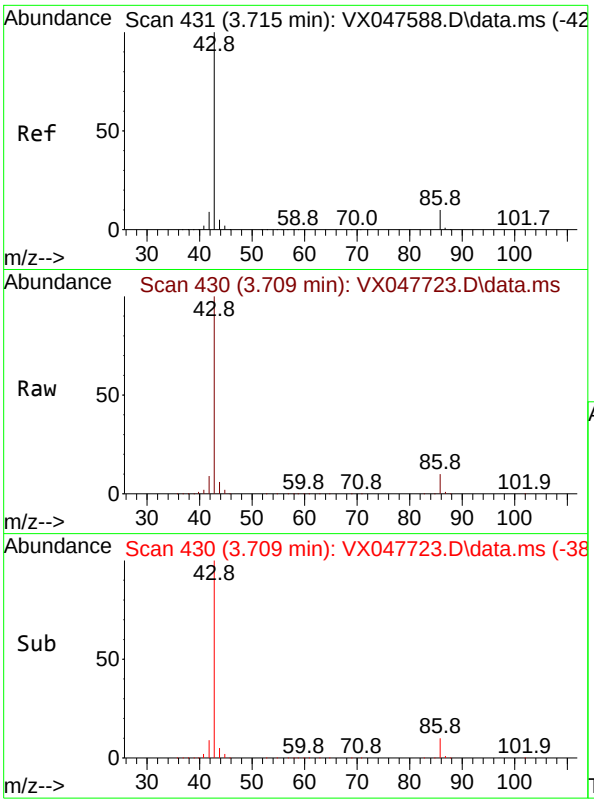


#22
Diisopropyl ether
Concen: 16.712 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 45 Resp: 144354

Ion	Ratio	Lower	Upper
45	100		
43	130.4	81.0	121.4#
87	25.2	20.3	30.5
59	10.8	9.0	13.4



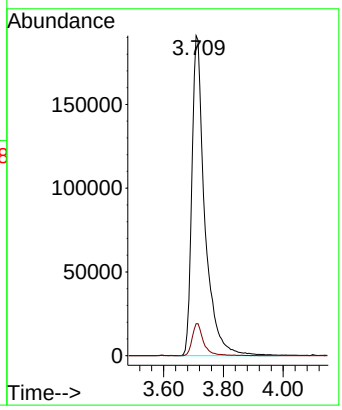


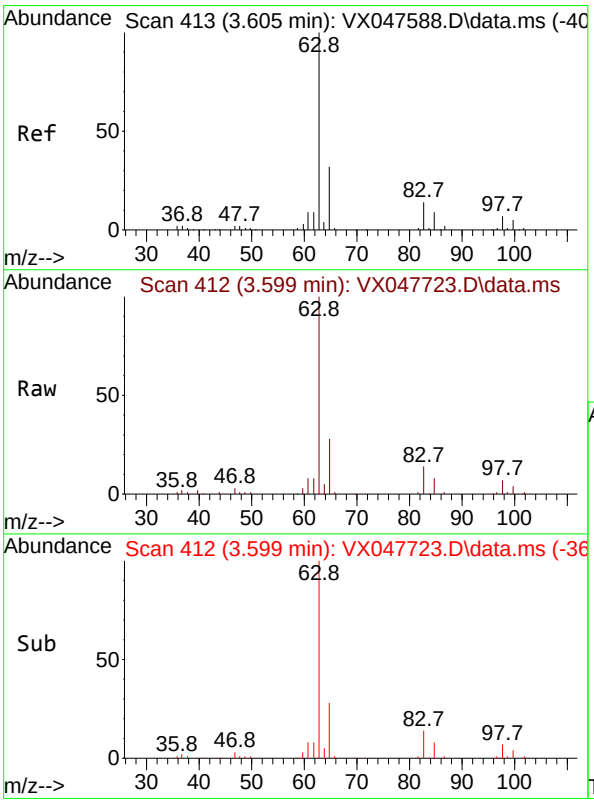
#23
Vinyl Acetate
Concen: 83.195 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 575126

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

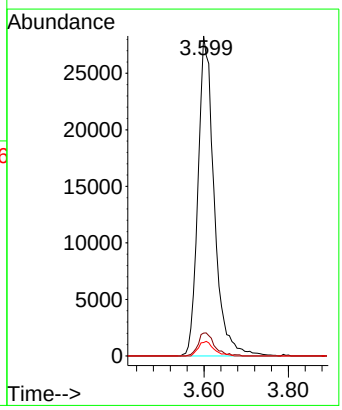


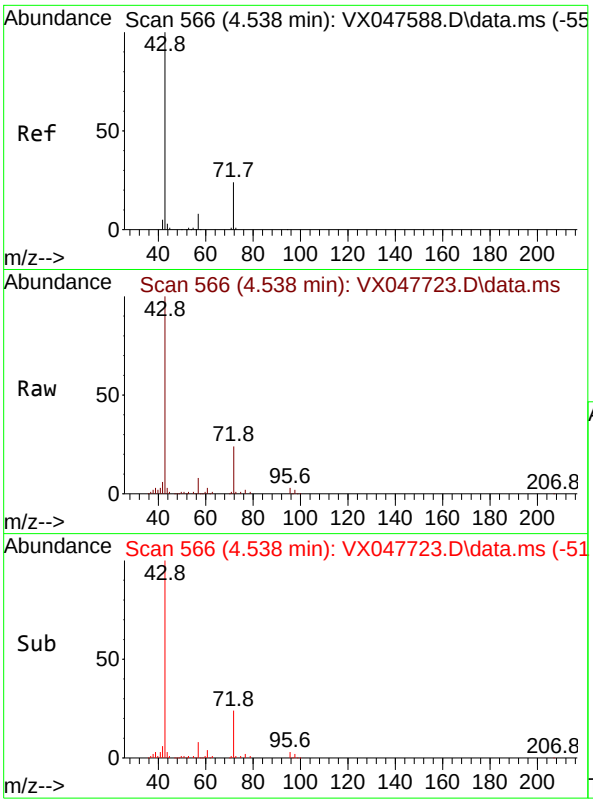


#24
1,1-Dichloroethane
Concen: 16.495 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 75728

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.8	11.2
100	4.2	2.3	6.9



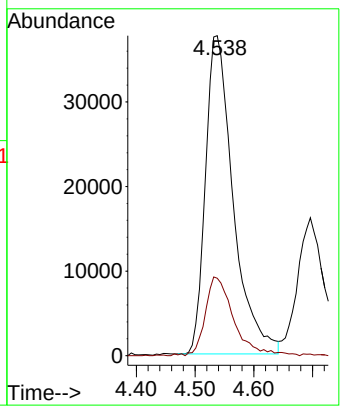


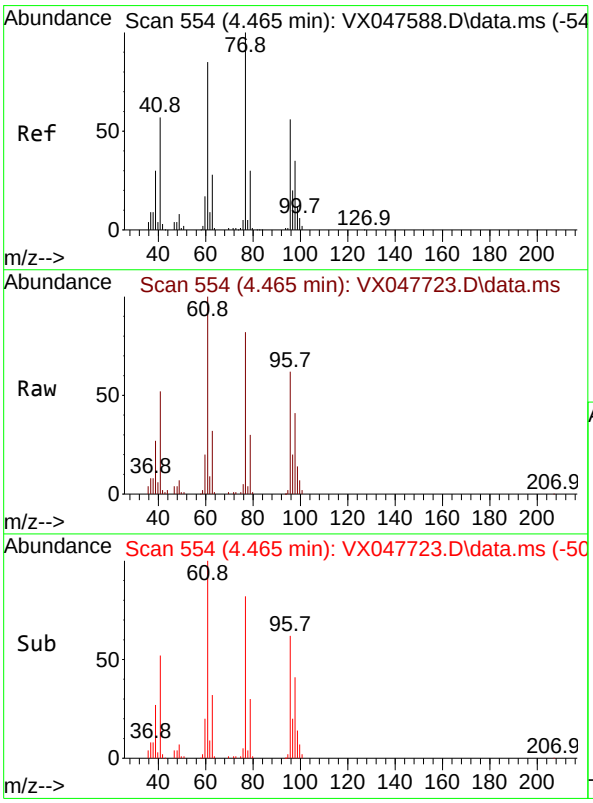
#25
2-Butanone
Concen: 78.705 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 123517

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1

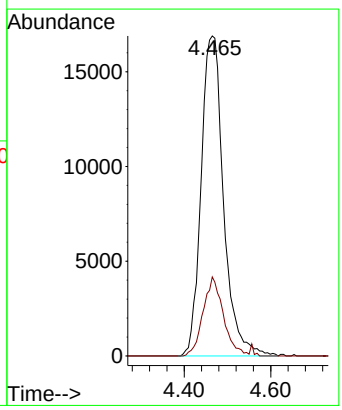


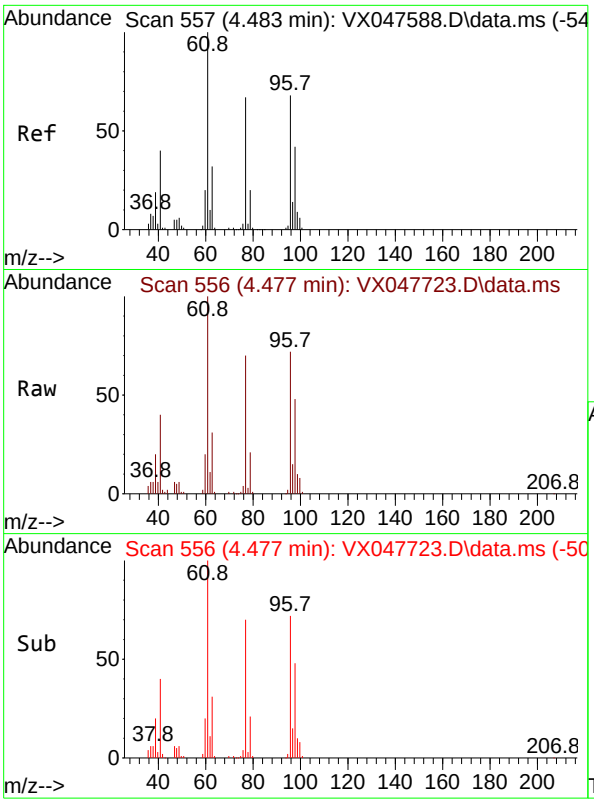


#26
2,2-Dichloropropane
Concen: 15.910 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 77 Resp: 60715

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7



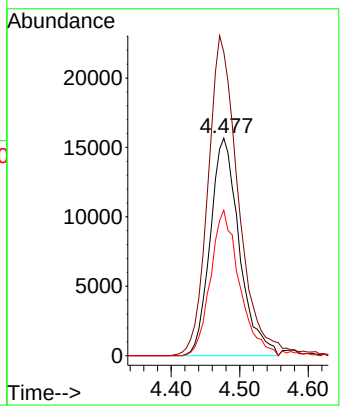


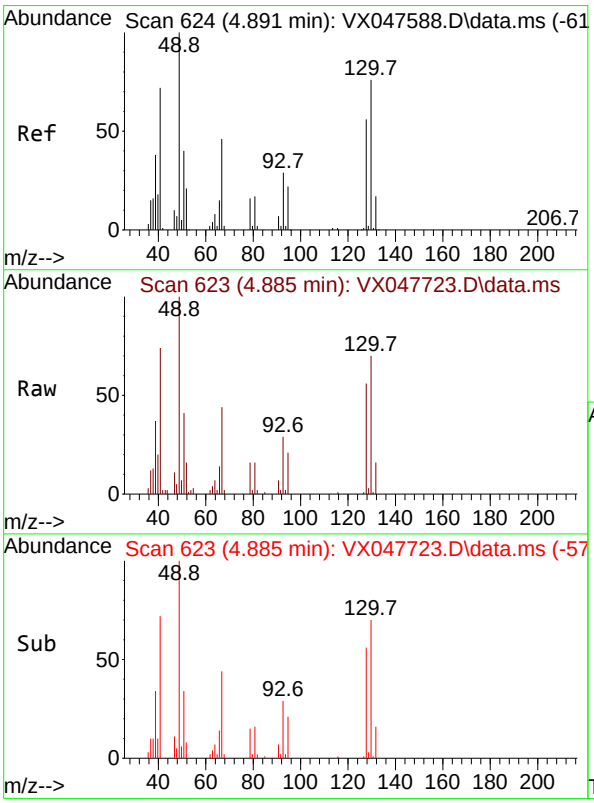
#27
cis-1,2-Dichloroethene
Concen: 16.177 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 96 Resp: 46069

Ion	Ratio	Lower	Upper
96	100		
61	155.1	0.0	303.2
98	66.4	0.0	127.8

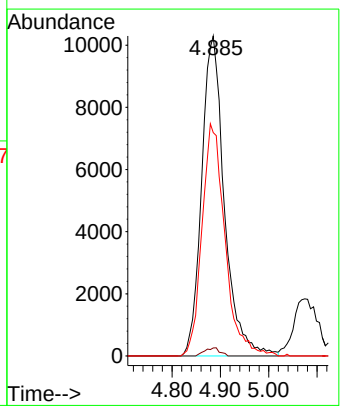


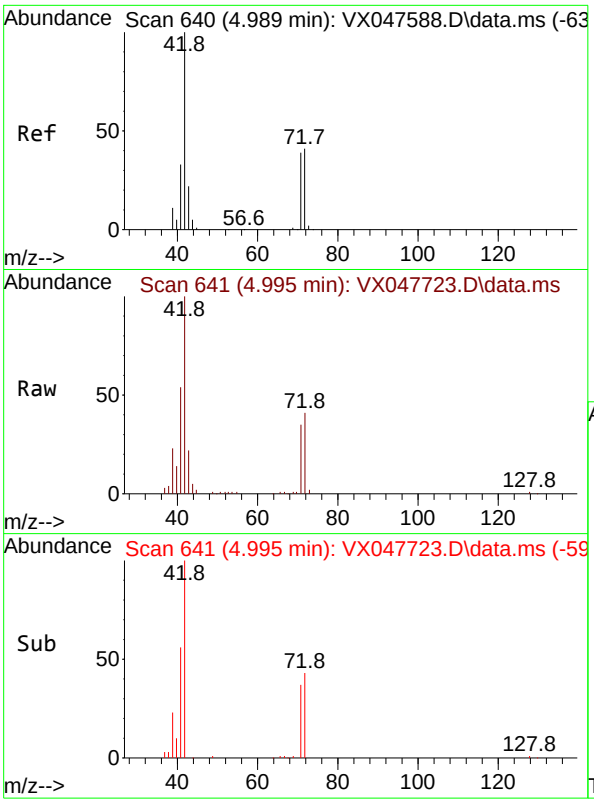


#28
Bromochloromethane
Concen: 16.807 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 49 Resp: 33685

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	73.4	57.8	86.8



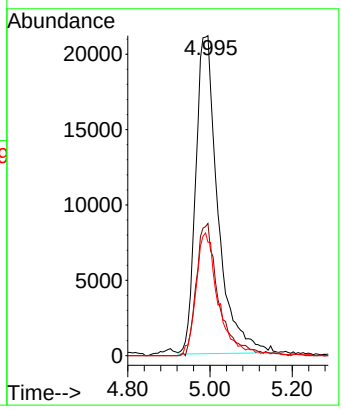


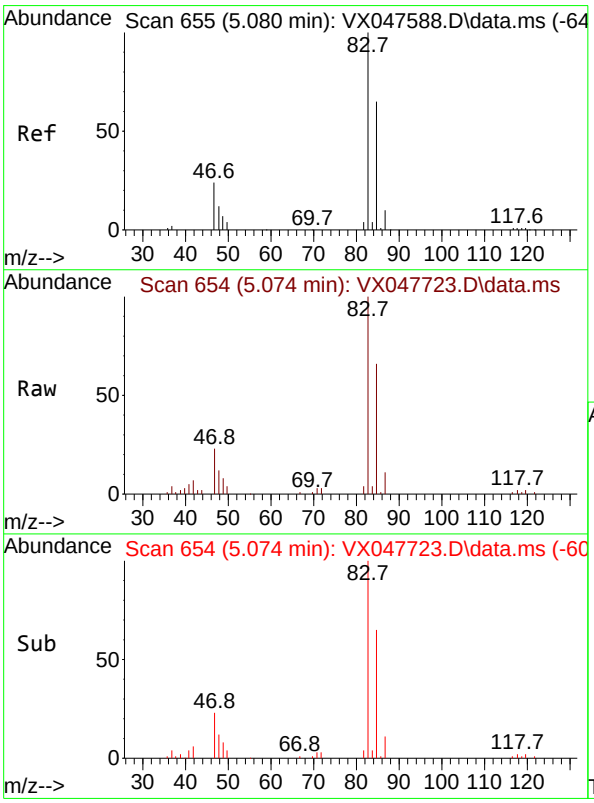
#29
Tetrahydrofuran
Concen: 83.826 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 42 Resp: 79140

Ion	Ratio	Lower	Upper
42	100		
72	41.4	34.2	51.2
71	38.8	31.9	47.9

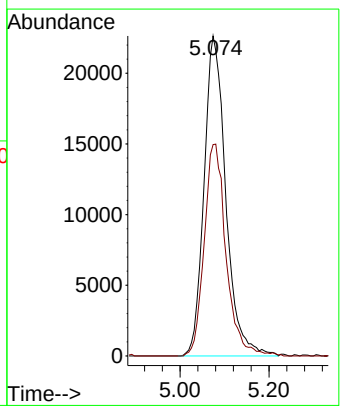


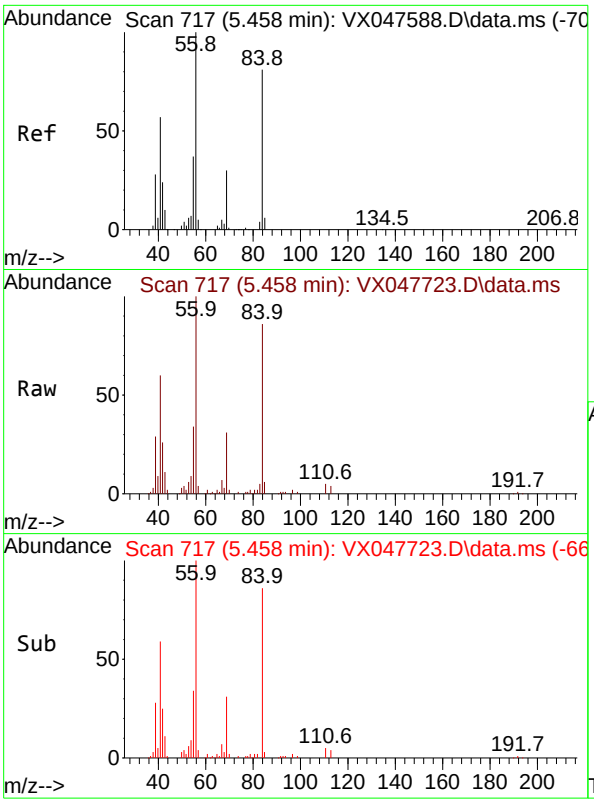


#30
Chloroform
Concen: 16.618 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 77095

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6



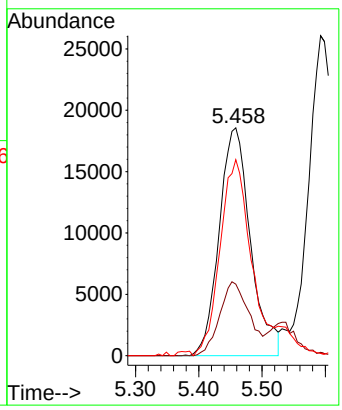


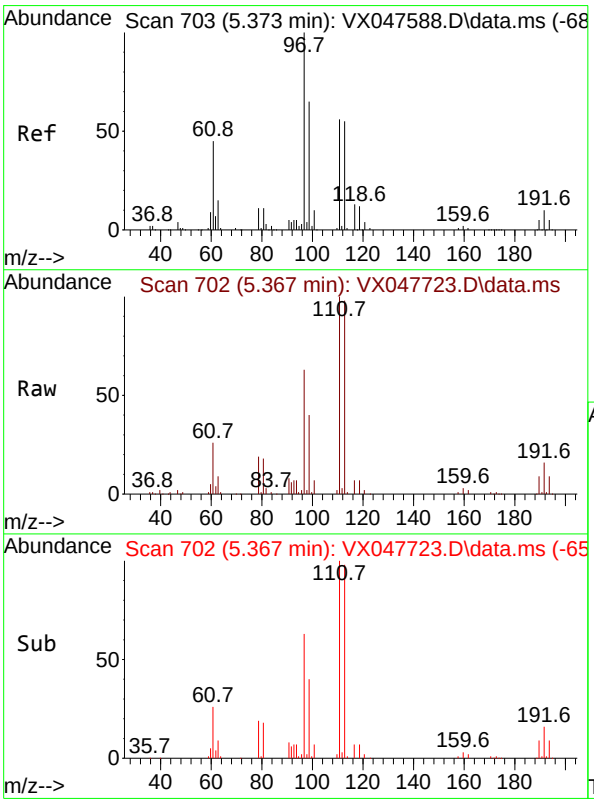
#31
Cyclohexane
Concen: 16.688 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 56 Resp: 63808

Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.8	35.8
84	84.5	64.6	97.0

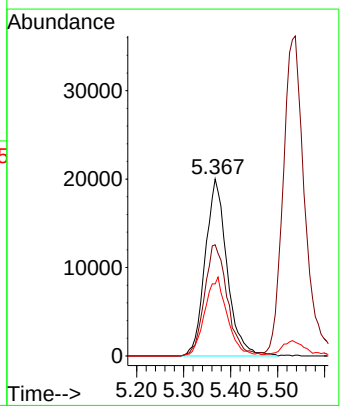


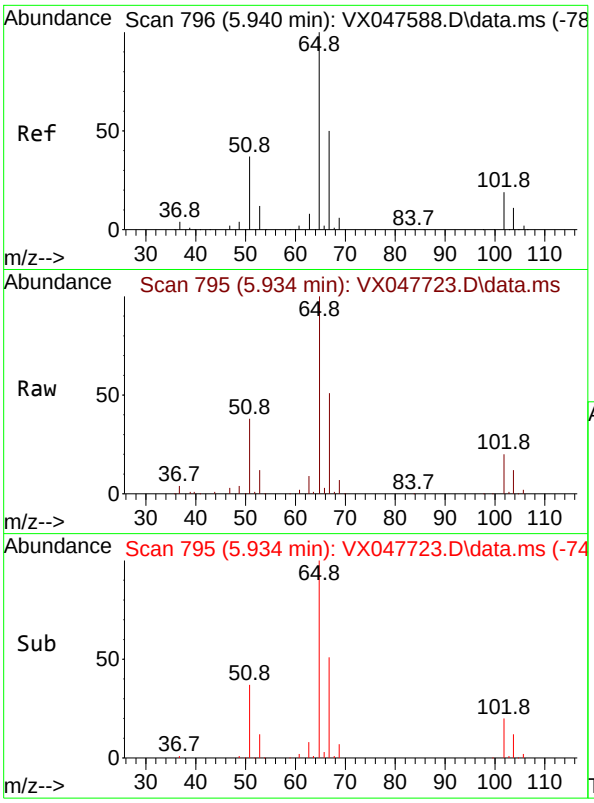


#32
1,1,1-Trichloroethane
Concen: 16.421 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 97 Resp: 64618

Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.6	76.0
61	45.9	35.8	53.8



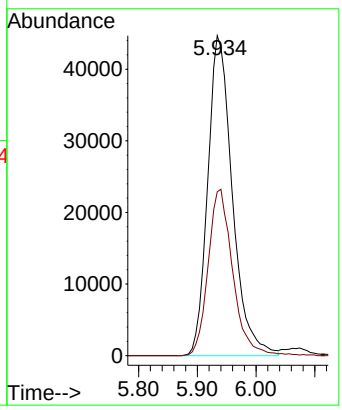


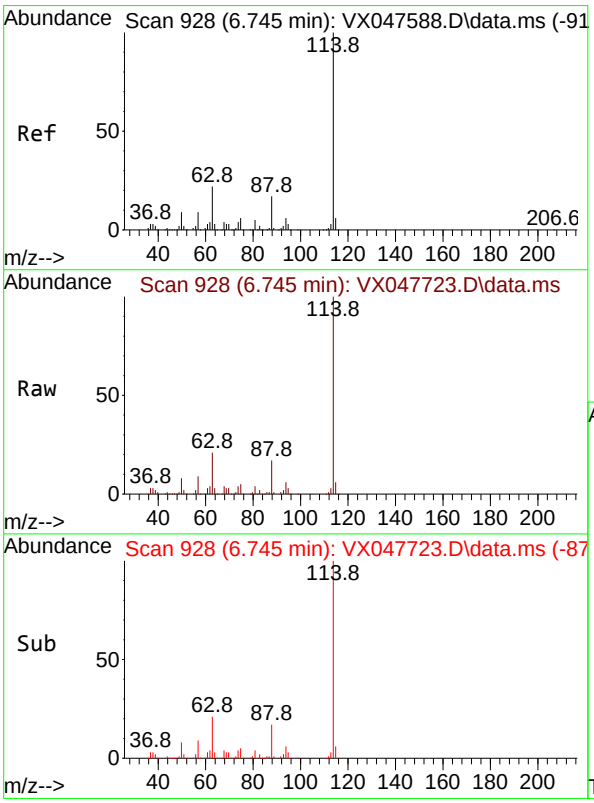
#33
1,2-Dichloroethane-d4
Concen: 44.983 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 65 Resp: 130163

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

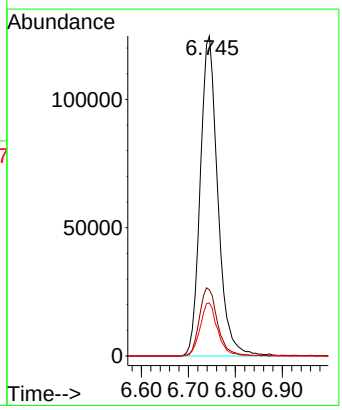


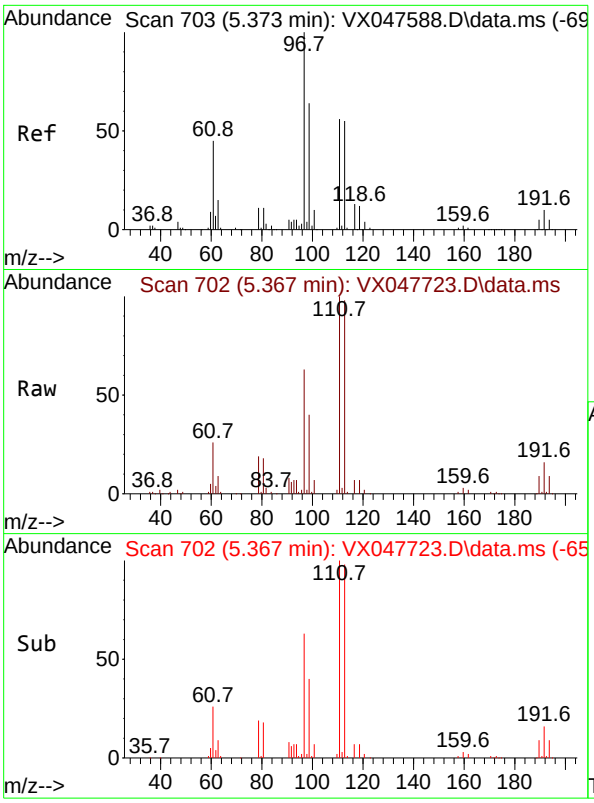


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:114 Resp: 322664

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	16.5	0.0	34.2



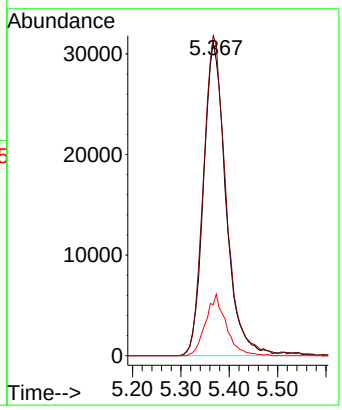


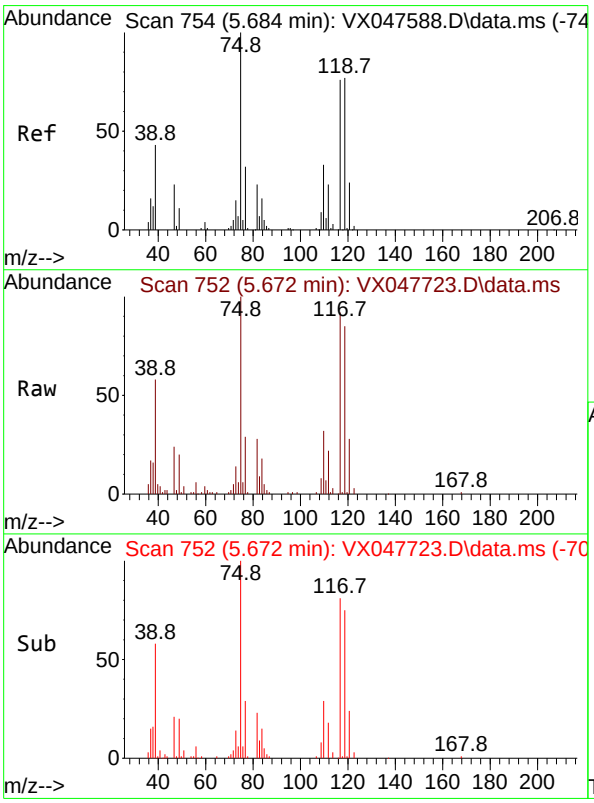
#35
Dibromofluoromethane
Concen: 46.149 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:113 Resp: 99865

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	18.0	14.2	21.4

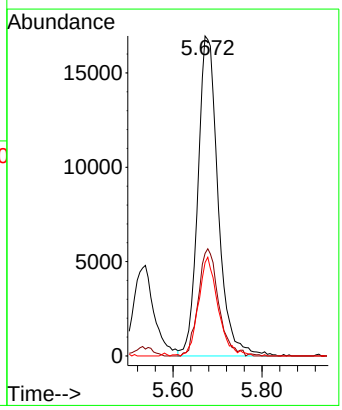


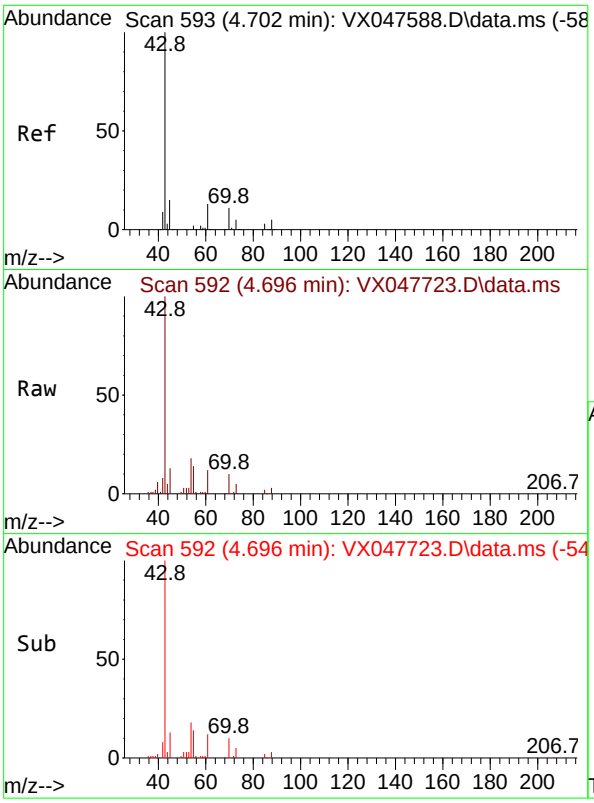


#36
1,1-Dichloropropene
Concen: 16.949 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 53594

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.7	50.1
77	29.8	24.3	36.5



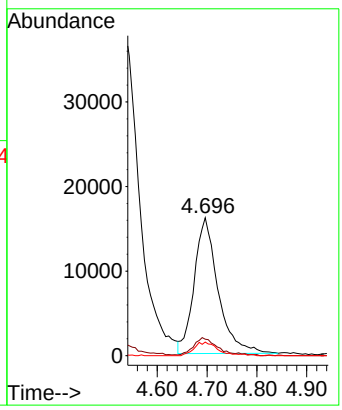


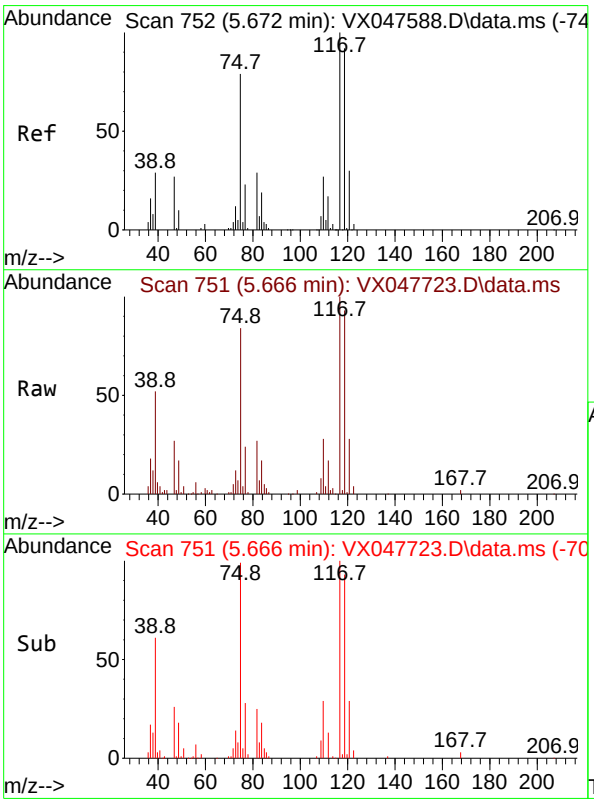
#37
Ethyl Acetate
Concen: 15.743 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 53300

Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	10.0	7.9	11.9

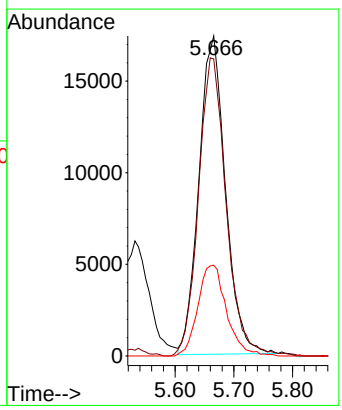


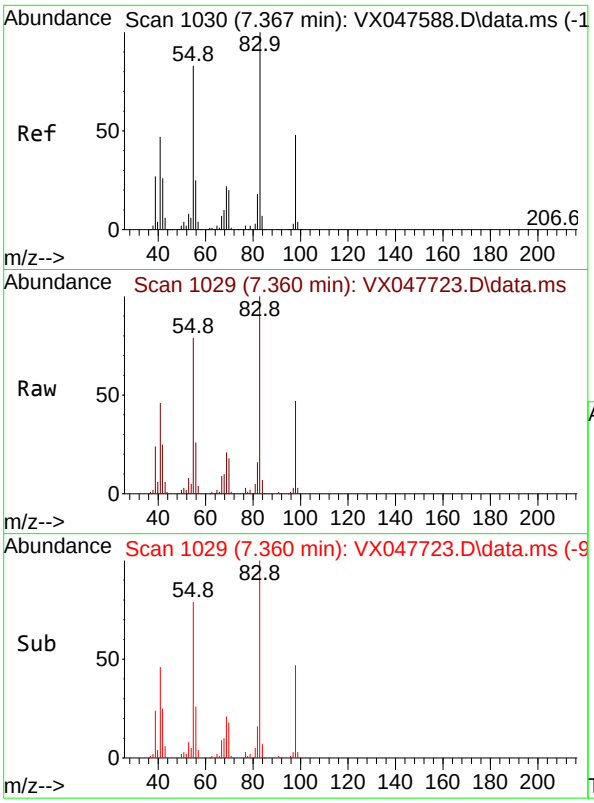


#38
Carbon Tetrachloride
Concen: 15.922 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 54702

Ion	Ratio	Lower	Upper
117	100		
119	92.9	73.4	110.2
121	28.6	23.8	35.6



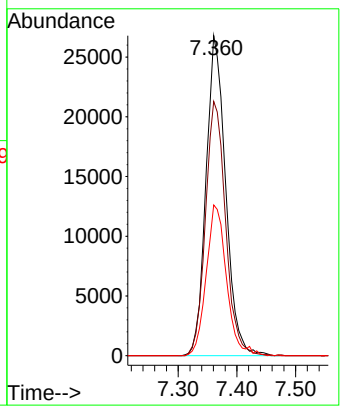


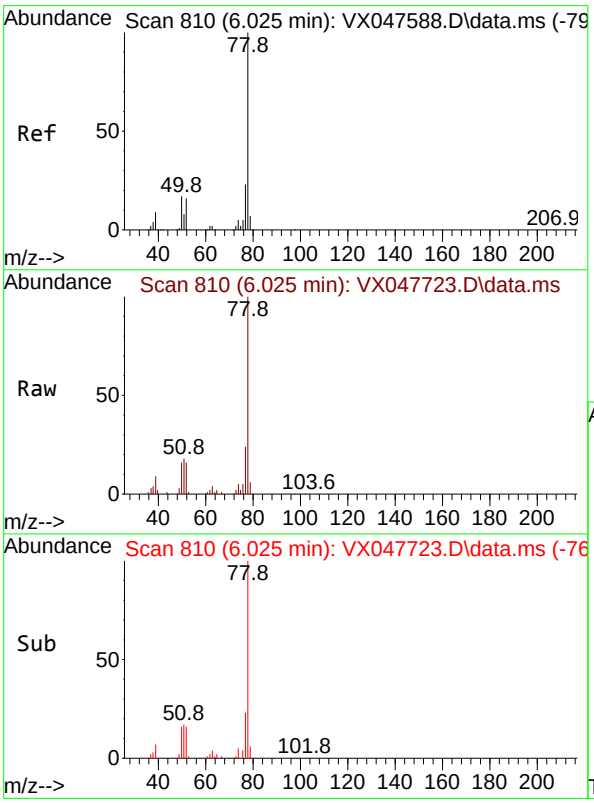
#39
Methylcyclohexane
Concen: 17.344 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 83 Resp: 62254

Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.4	99.6
98	47.1	38.1	57.1

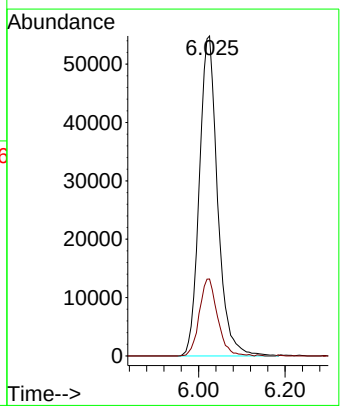


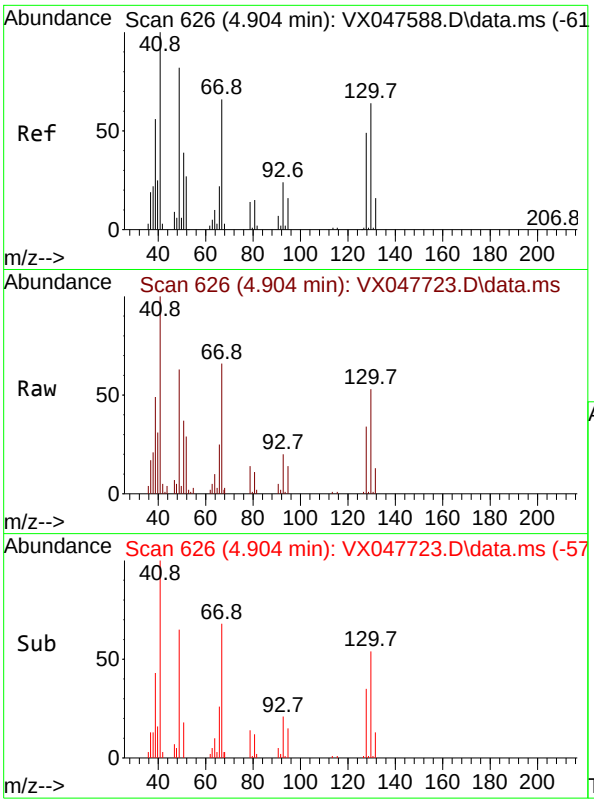


#40
Benzene
Concen: 16.697 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 78 Resp: 160358

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2



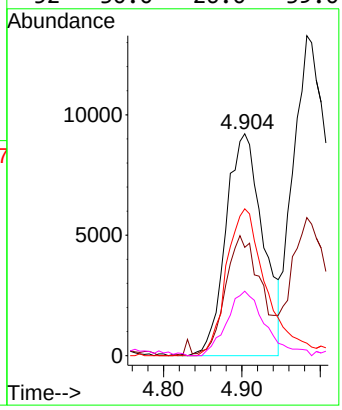


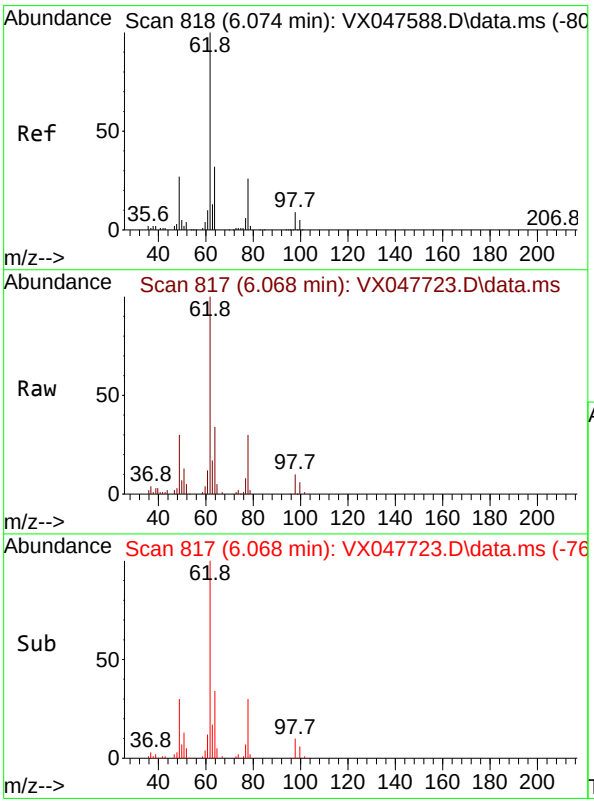
#41
Methacrylonitrile
Concen: 17.365 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 41 Resp: 30351

Ion	Ratio	Lower	Upper
41	100		
39	50.0	43.3	64.9
67	70.6	58.6	87.8
52	30.0	26.0	39.0

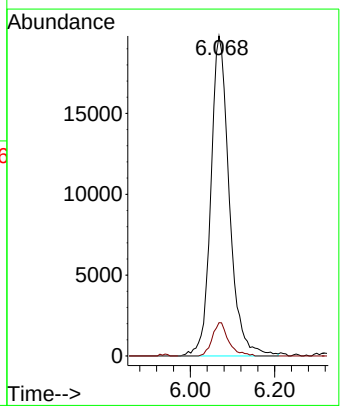


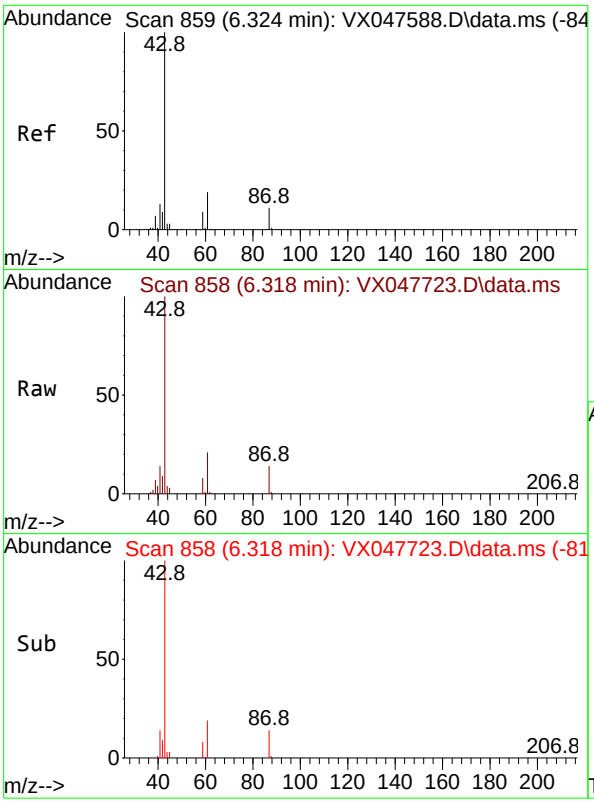


#42
1,2-Dichloroethane
Concen: 16.455 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 60128

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0



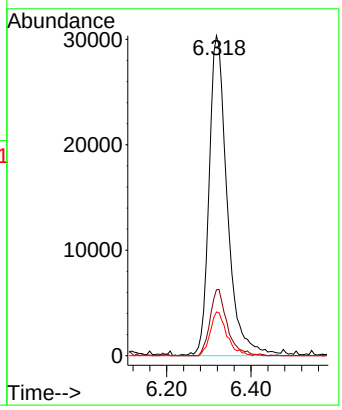


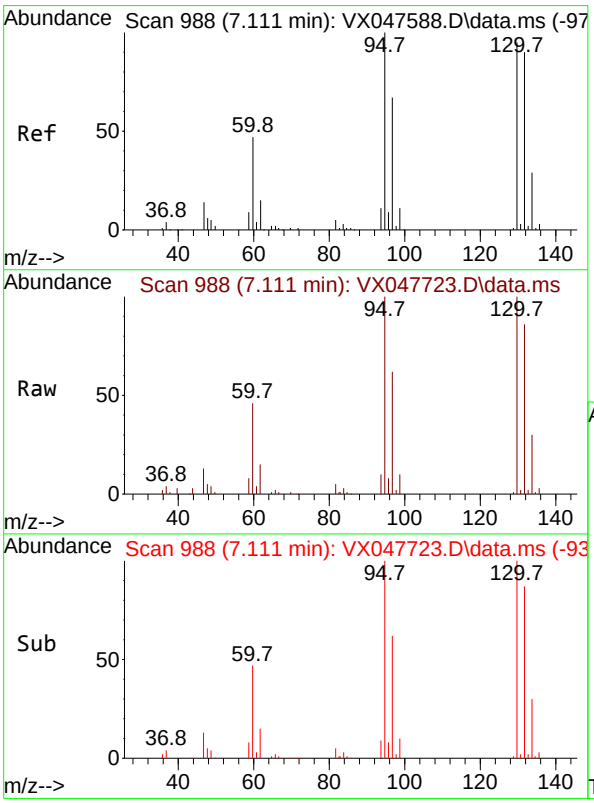
#43
Isopropyl Acetate
Concen: 16.367 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 90880

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.5	9.6	14.4

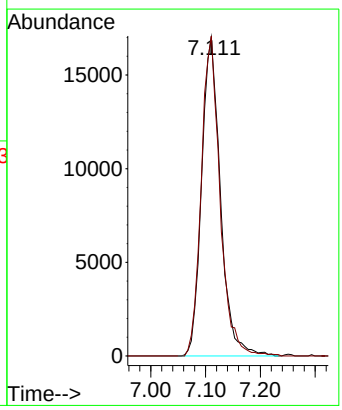


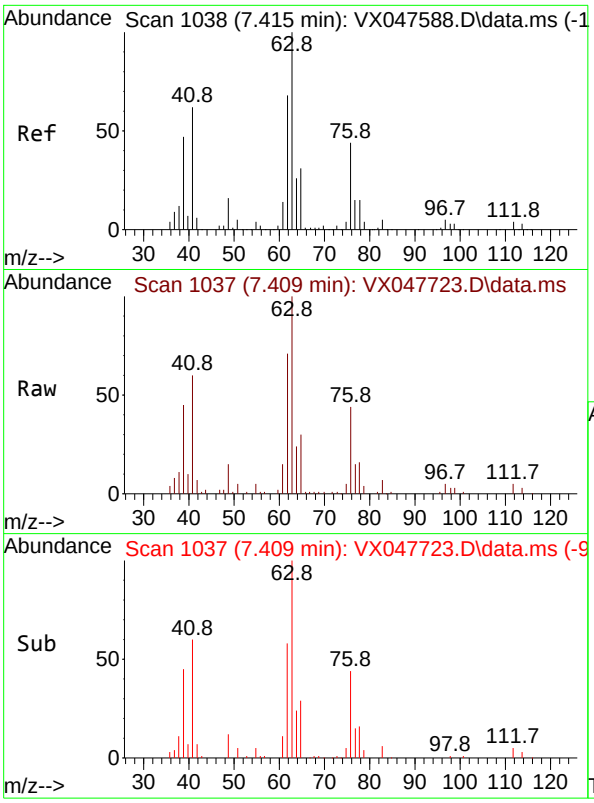


#44
Trichloroethene
Concen: 17.464 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:130 Resp: 40550

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	210.8



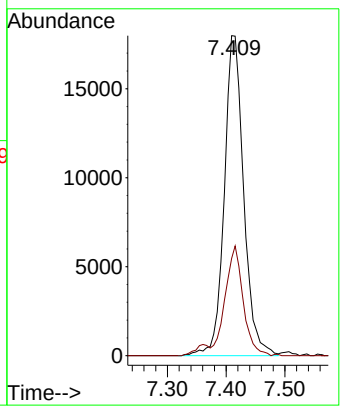


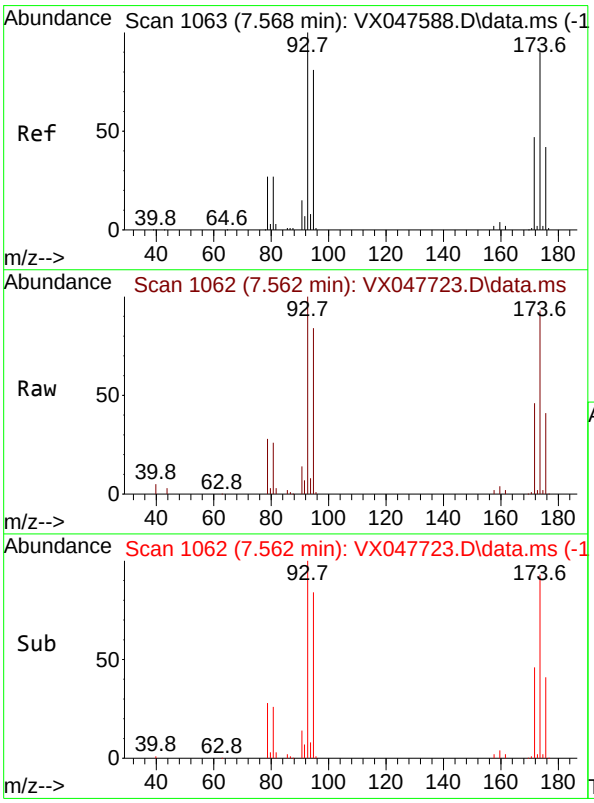
#45
1,2-Dichloropropane
Concen: 16.811 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 63 Resp: 41341

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.7	37.1

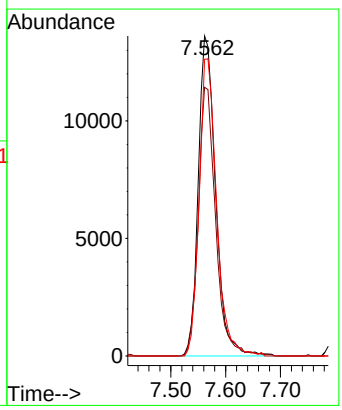


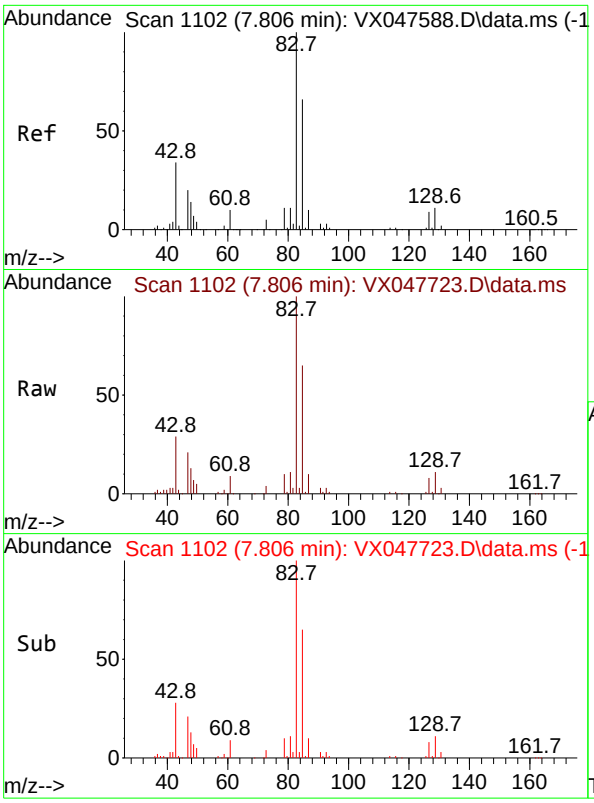


#46
Dibromomethane
Concen: 16.746 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 93 Resp: 29969

Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.0	97.6
174	93.4	71.6	107.4



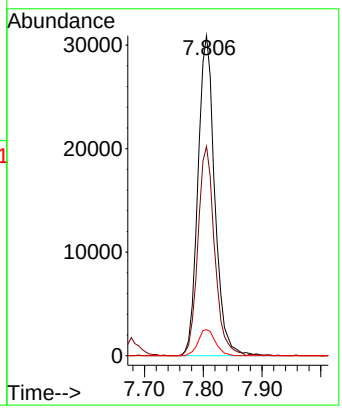


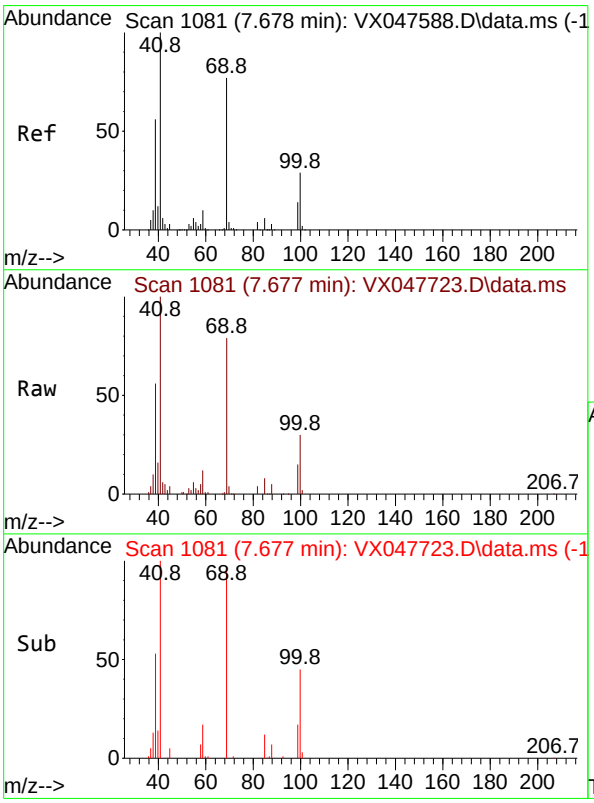
#47
Bromodichloromethane
Concen: 16.577 ug/l
RT: 7.806 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 83 Resp: 61218

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.5	78.7
127	8.2	6.9	10.3

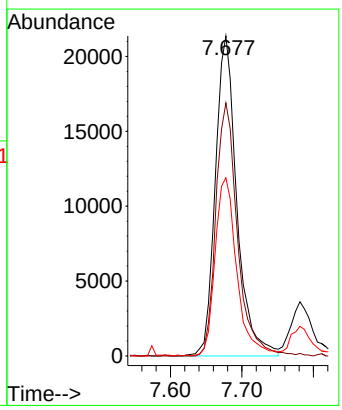


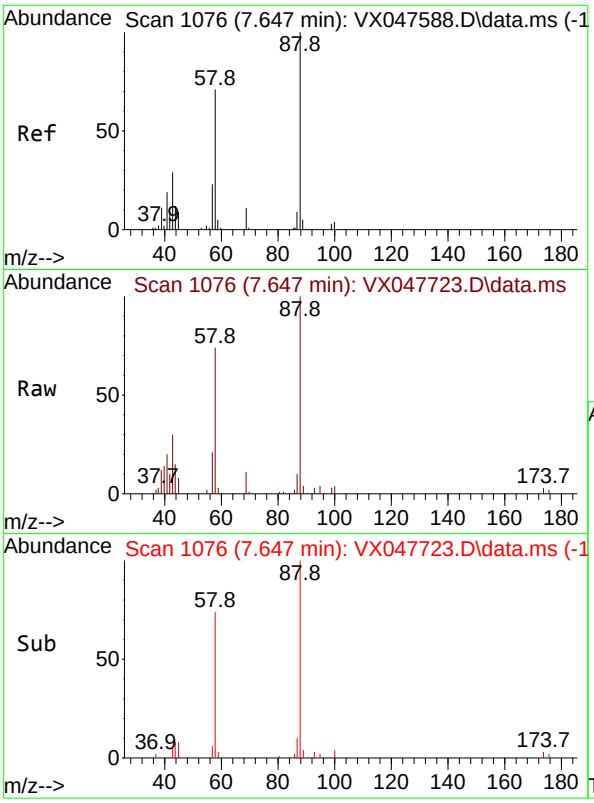


#48
Methyl methacrylate
Concen: 16.166 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 44713

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	56.3	45.8	68.6



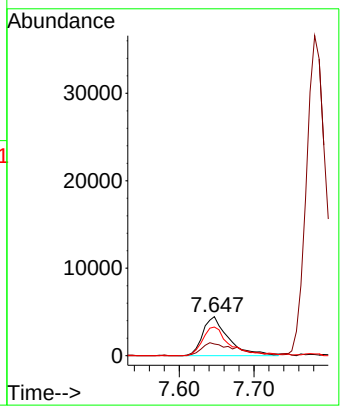


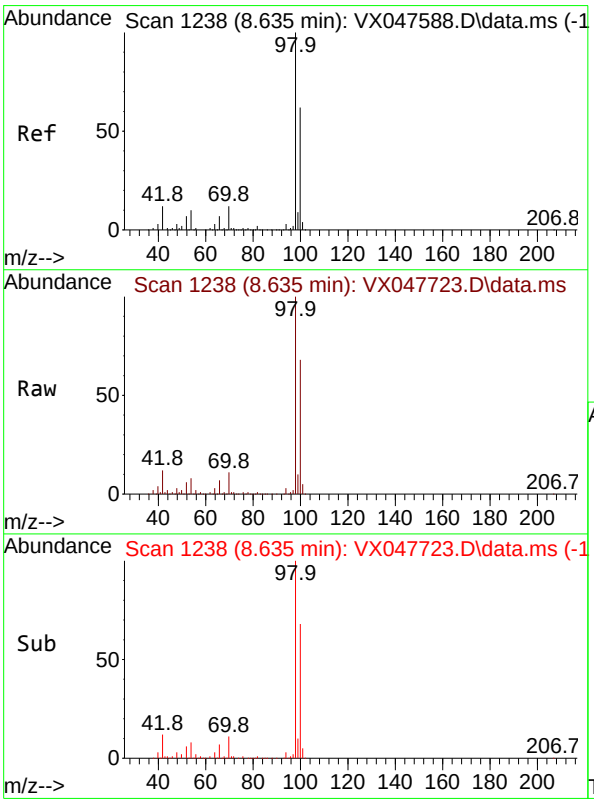
#49
1,4-Dioxane
Concen: 382.549 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 88 Resp: 10693

Ion	Ratio	Lower	Upper
88	100		
43	45.0	30.2	45.2
58	76.6	59.5	89.3

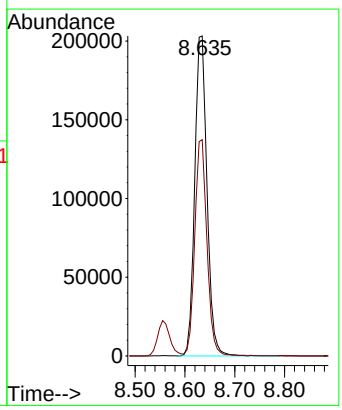


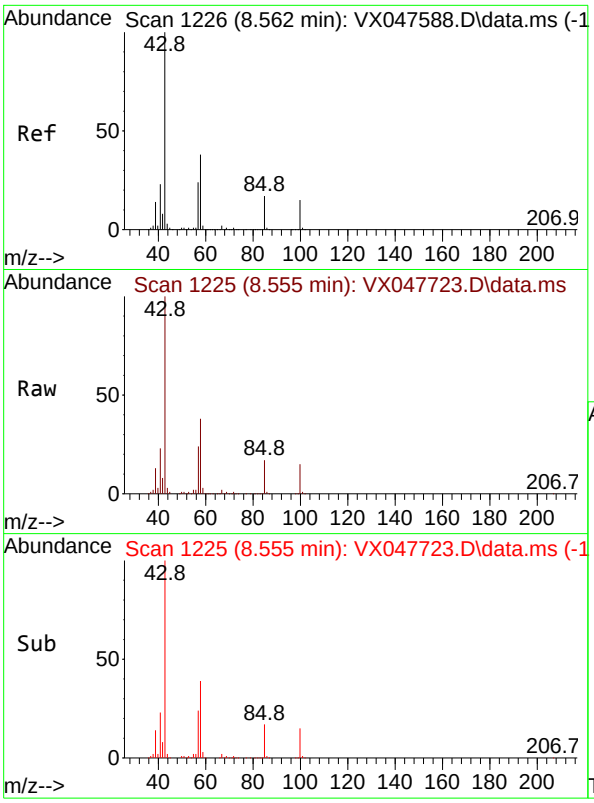


#50
Toluene-d8
Concen: 46.366 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 98 Resp: 347178

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.0	79.4



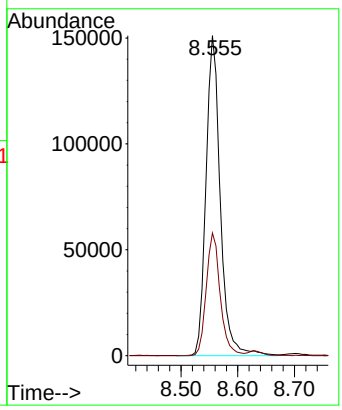


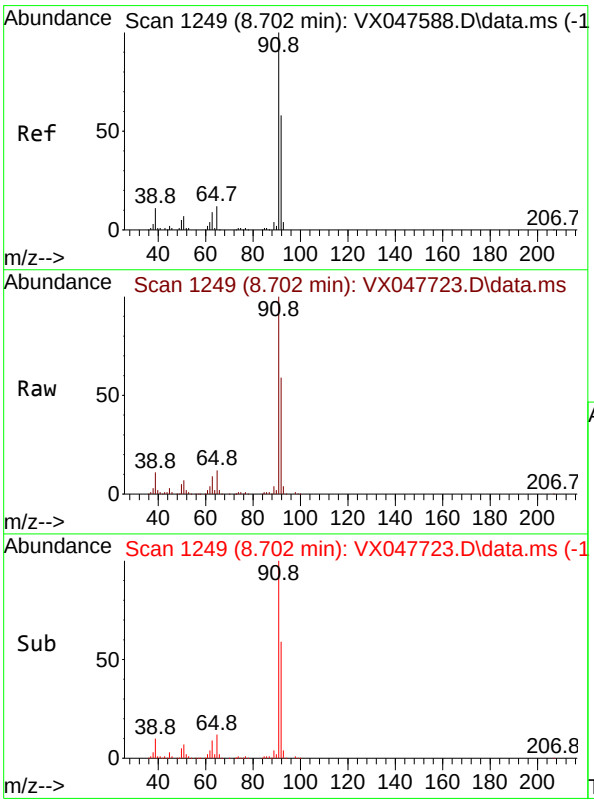
#51
4-Methyl-2-Pentanone
Concen: 85.968 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 264665

Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.3	45.5

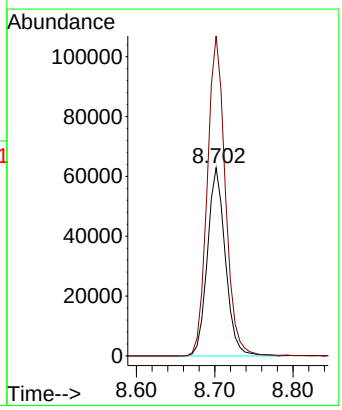


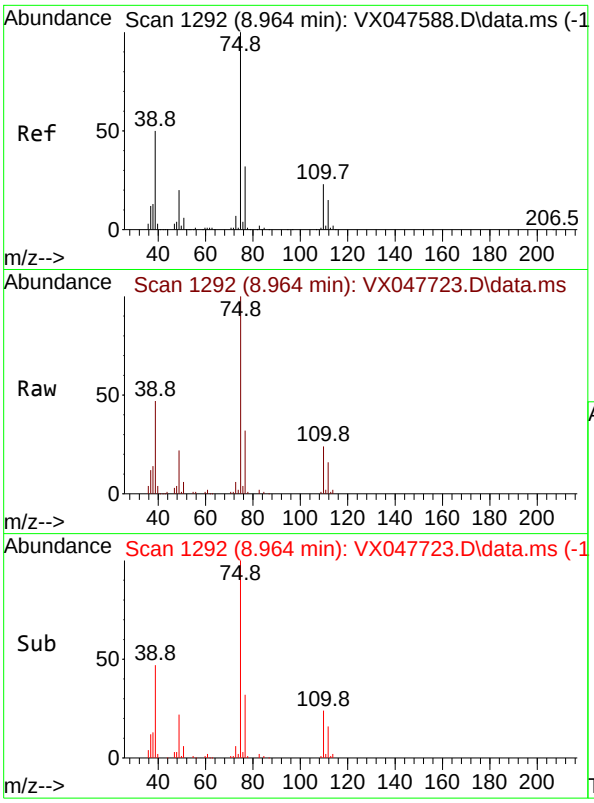


#52
Toluene
Concen: 16.863 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 92 Resp: 99779

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.1	205.7



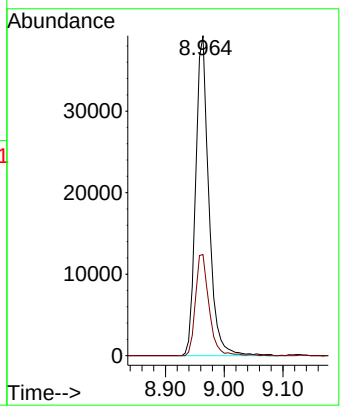


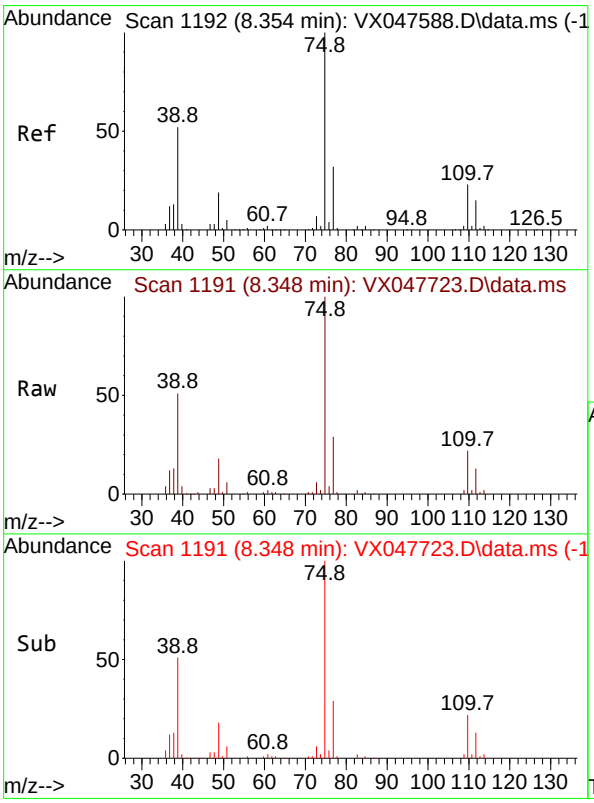
#53
t-1,3-Dichloropropene
Concen: 16.298 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 75 Resp: 61393

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

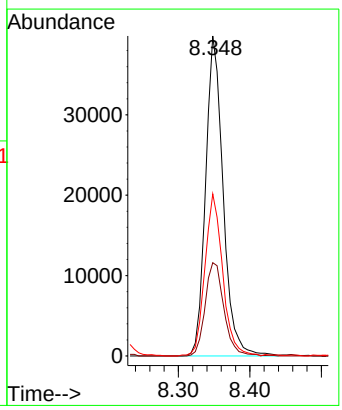


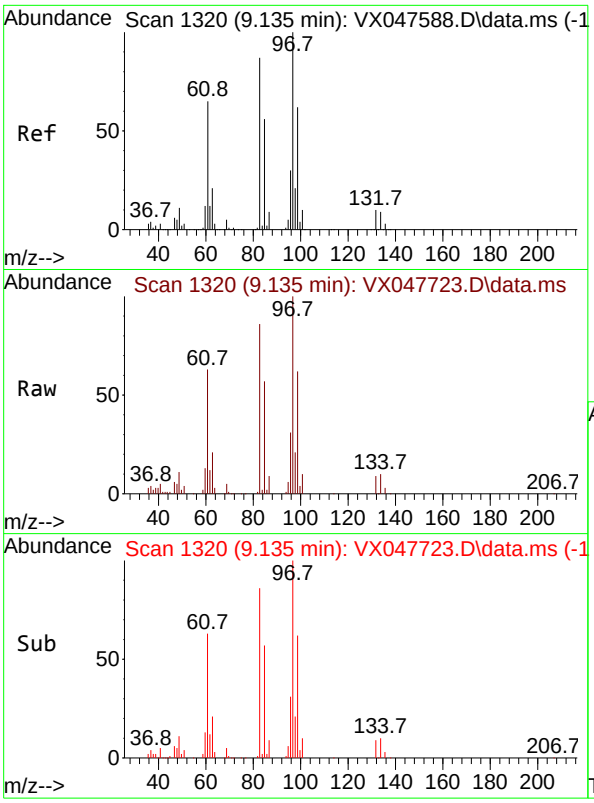


#54
cis-1,3-Dichloropropene
Concen: 16.810 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 67677

Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.8	38.6
39	50.6	41.4	62.2



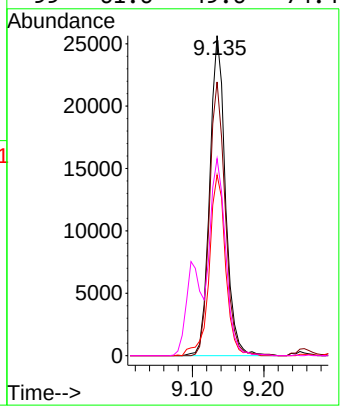


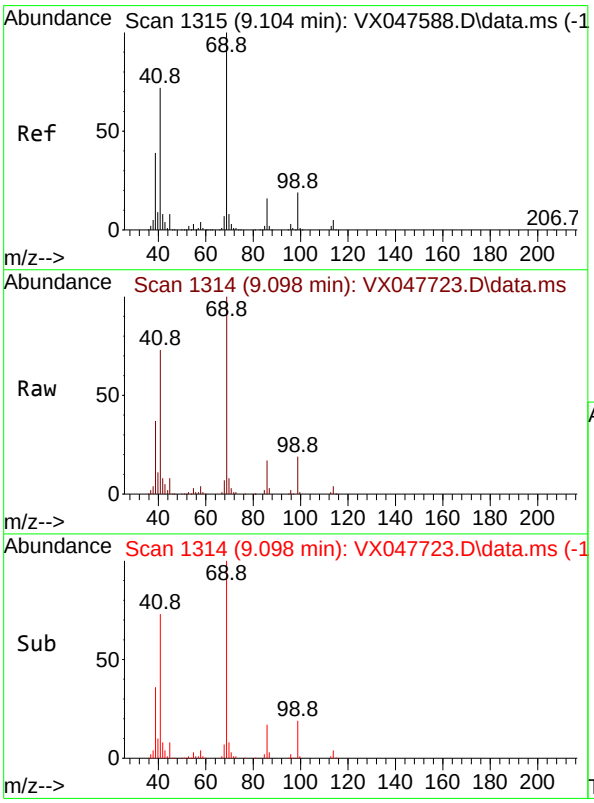
#55
1,1,2-Trichloroethane
Concen: 17.151 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 97 Resp: 39130

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	56.5	45.0	67.6
99	61.6	49.6	74.4

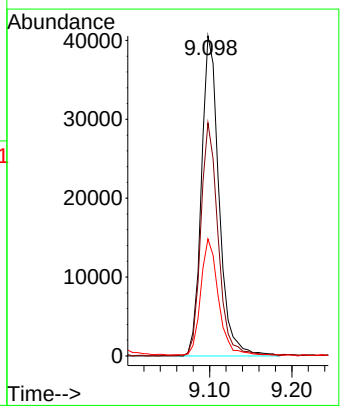


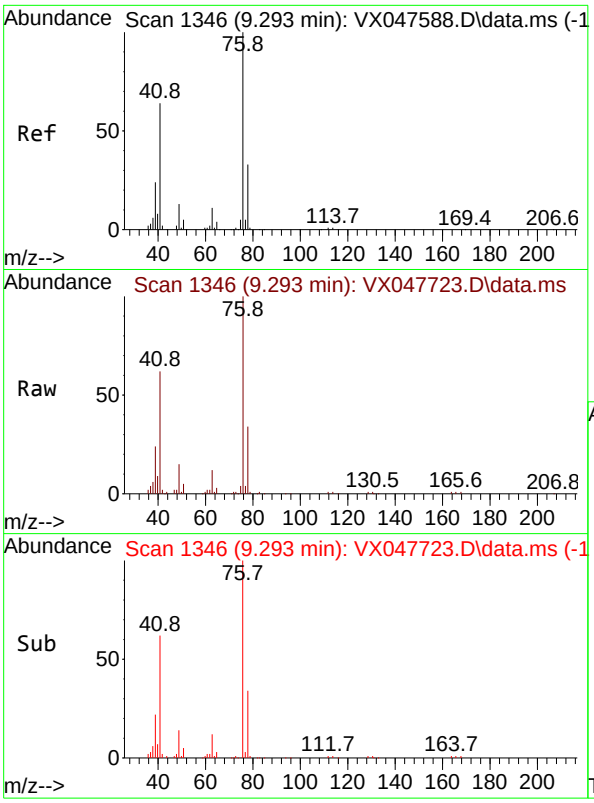


#56
Ethyl methacrylate
Concen: 16.859 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 69 Resp: 60408

Ion	Ratio	Lower	Upper
69	100		
41	71.2	58.6	87.8
39	37.8	31.5	47.3



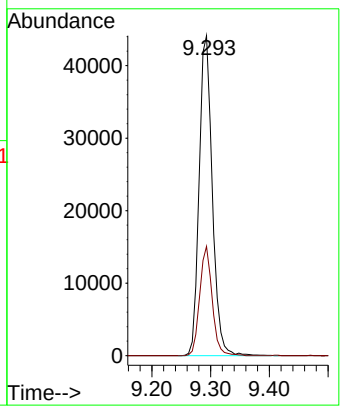


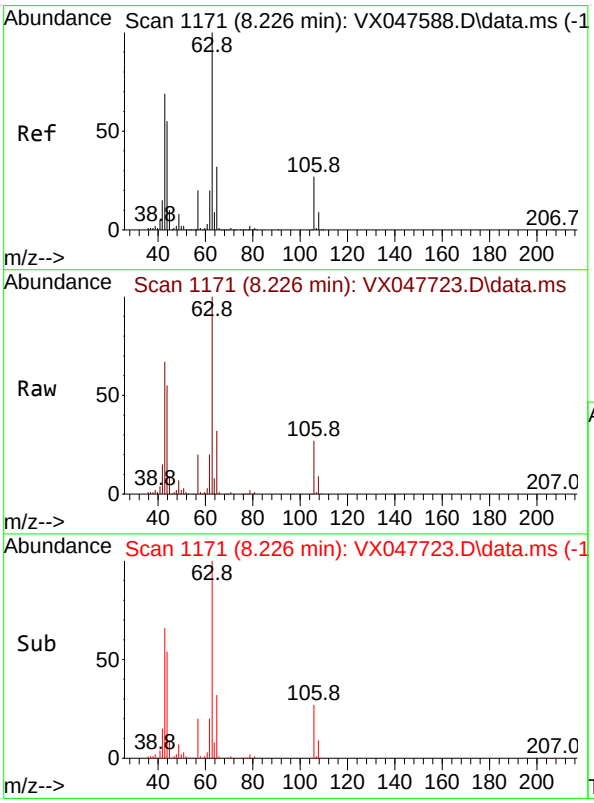
#57
1,3-Dichloropropane
Concen: 17.525 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 76 Resp: 68685

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4

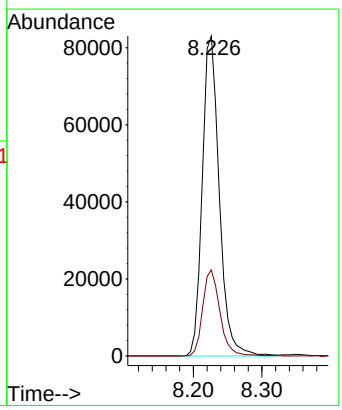


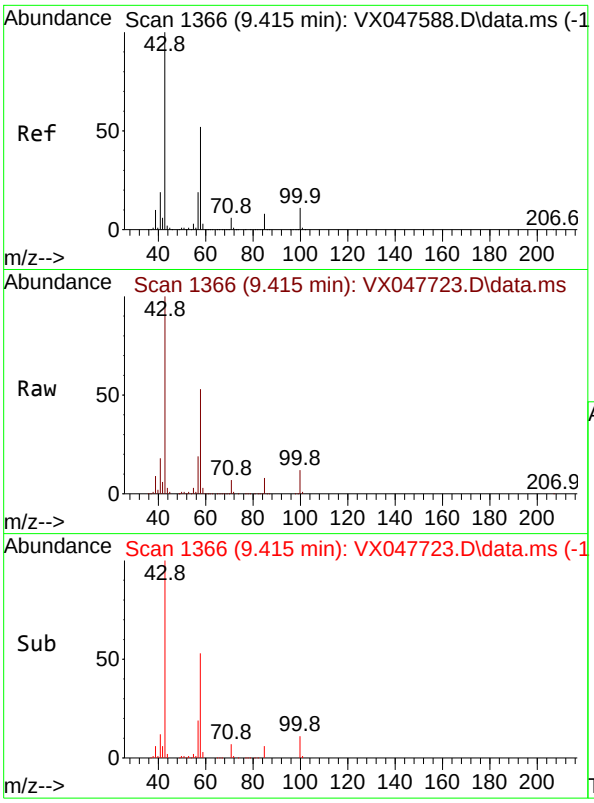


#58
2-Chloroethyl Vinyl ether
Concen: 91.195 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 143660

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9



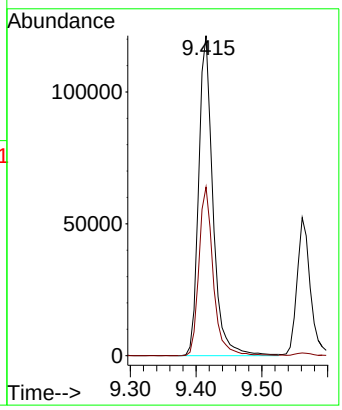


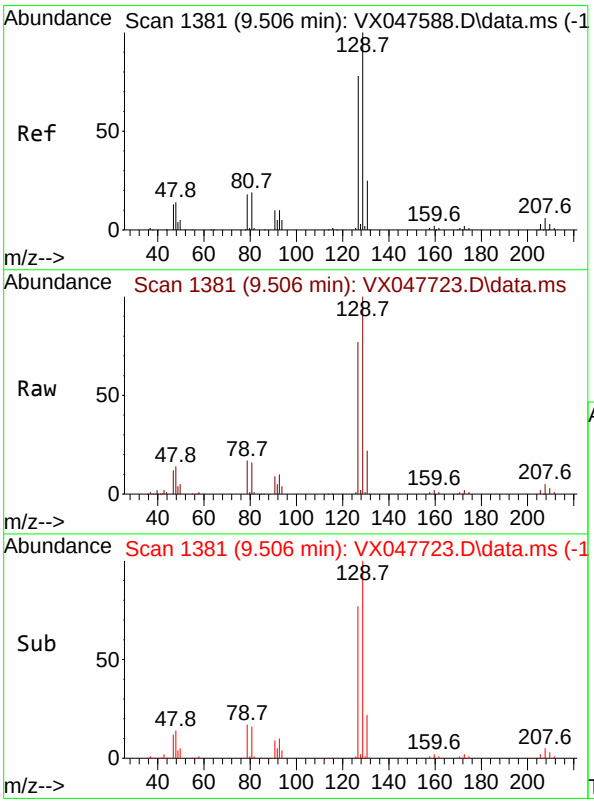
#59
2-Hexanone
Concen: 83.000 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 183521

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2

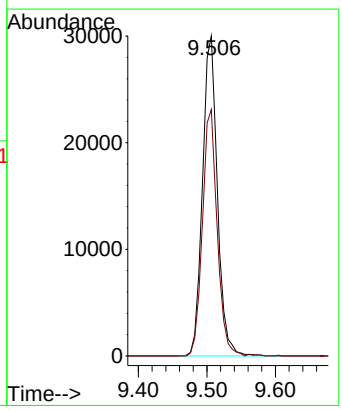


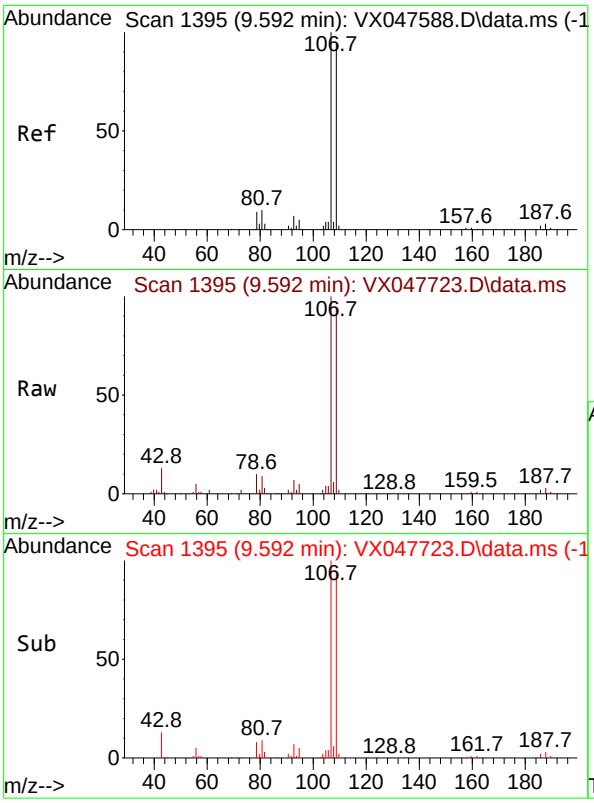


#60
Dibromochloromethane
Concen: 17.249 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:129 Resp: 45346

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.4	115.2



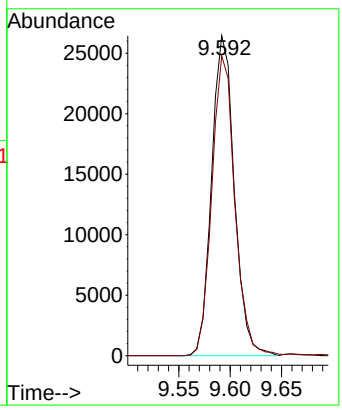


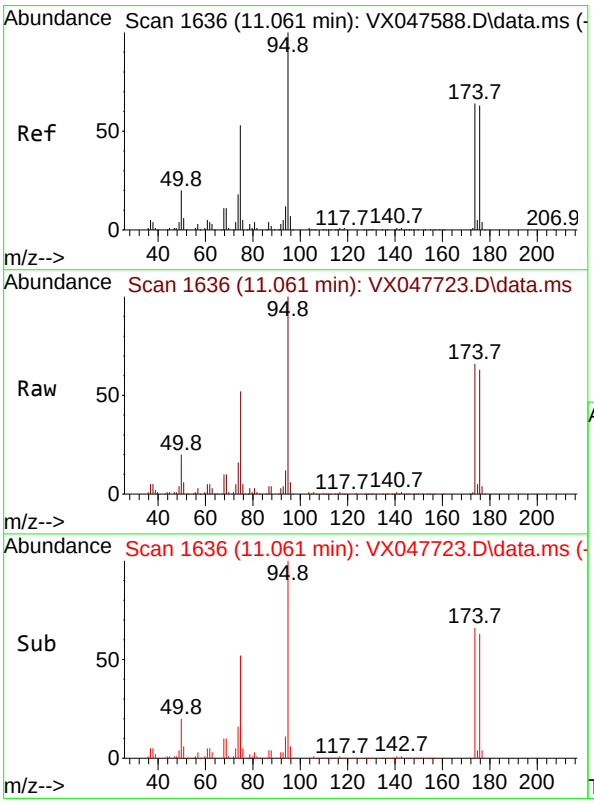
#61
1,2-Dibromoethane
Concen: 17.435 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:107 Resp: 40518

Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.3	112.9

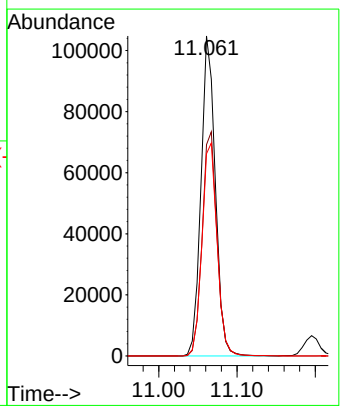


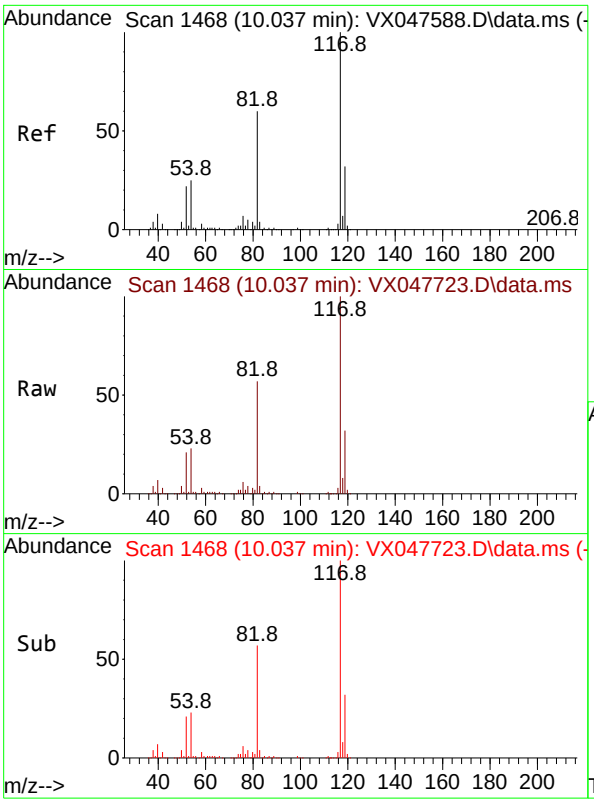


#62
4-Bromofluorobenzene
Concen: 46.772 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 95 Resp: 132914

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.6
176	70.0	0.0	138.4



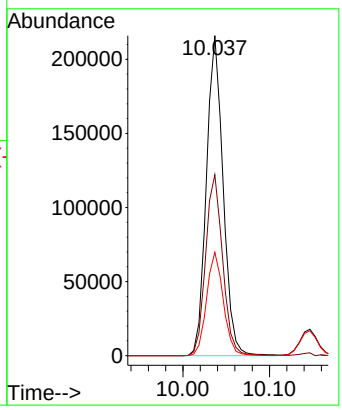


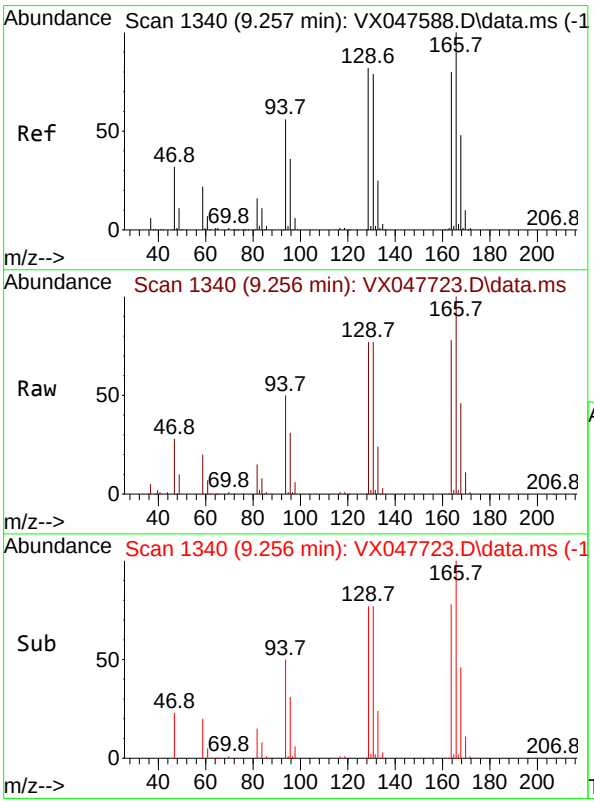
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:117 Resp: 289792

Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.8	71.6
119	32.3	25.2	37.8

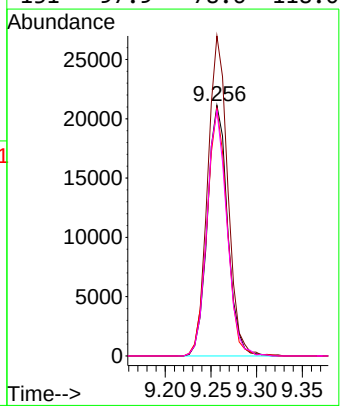


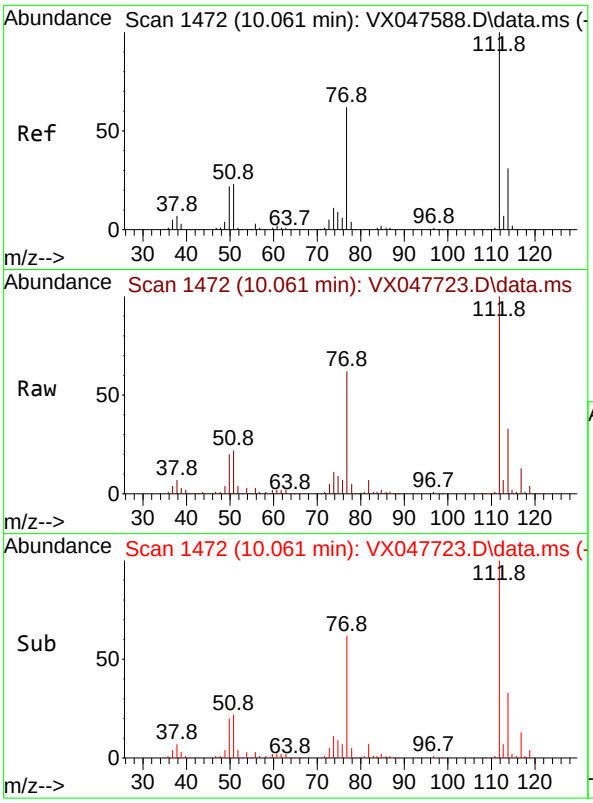


#64
Tetrachloroethene
Concen: 17.136 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:164 Resp: 32372

Ion	Ratio	Lower	Upper
164	100		
166	127.7	100.2	150.2
129	98.8	81.8	122.6
131	97.9	78.6	118.0



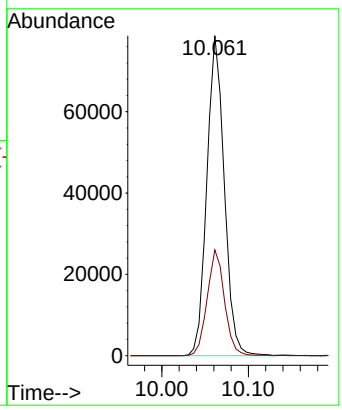


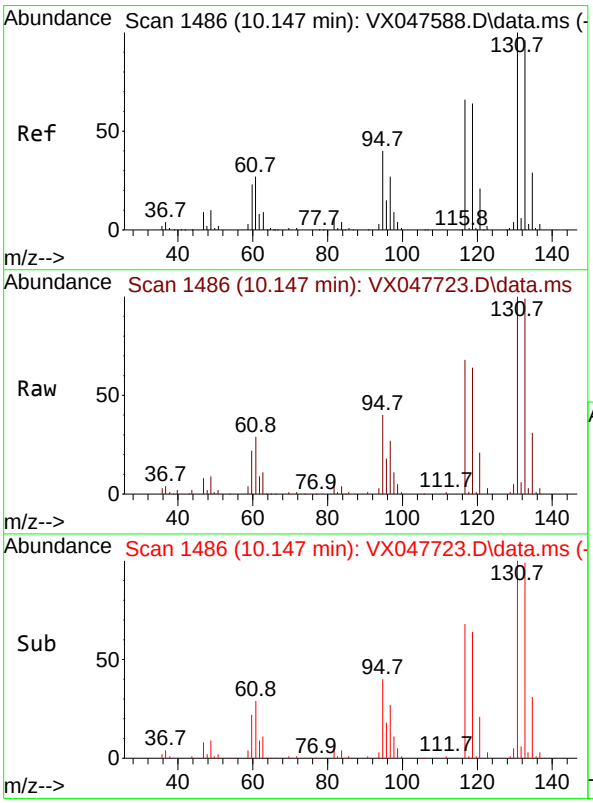
#65
Chlorobenzene
Concen: 16.694 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:112 Resp: 109903

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.1	37.7

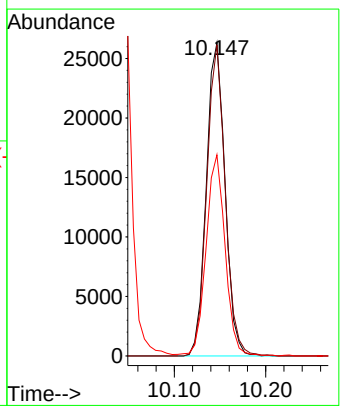


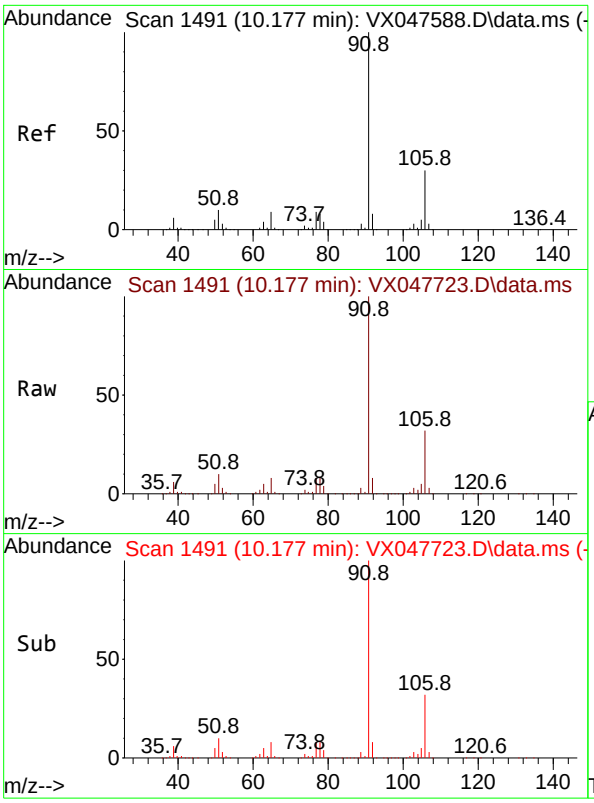


#66
1,1,1,2-Tetrachloroethane
Concen: 16.455 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:131 Resp: 37383

Ion	Ratio	Lower	Upper
131	100		
133	97.8	47.3	142.0
119	65.4	32.0	96.0



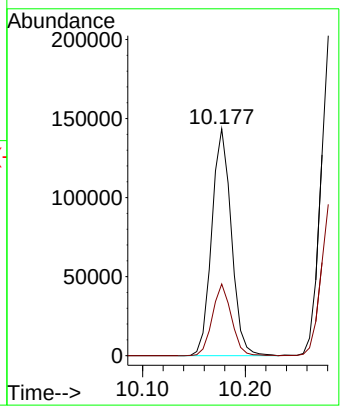


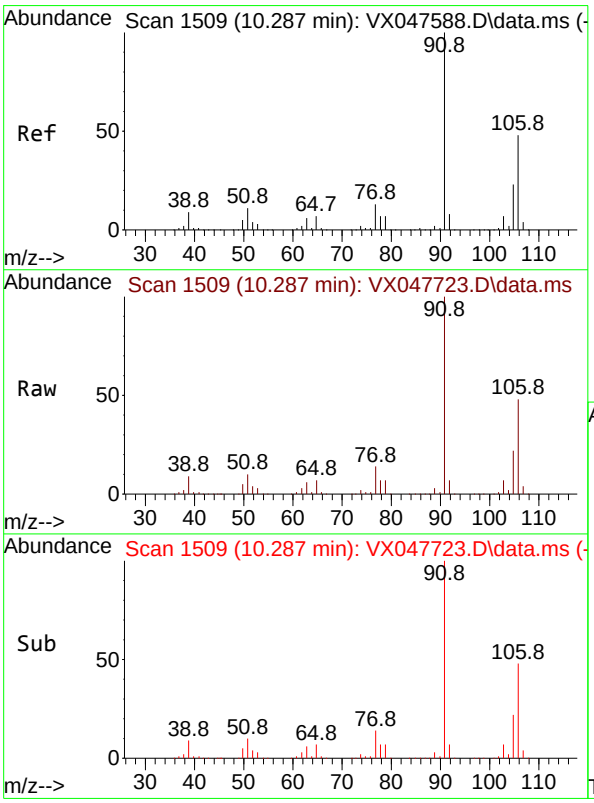
#67
Ethyl Benzene
Concen: 16.684 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 91 Resp: 189524

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.3	36.5

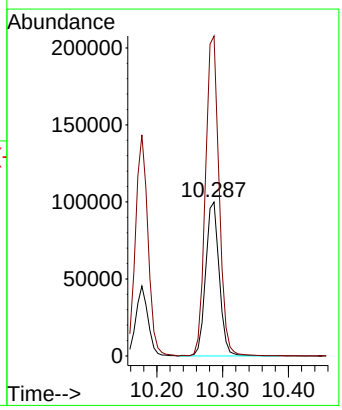


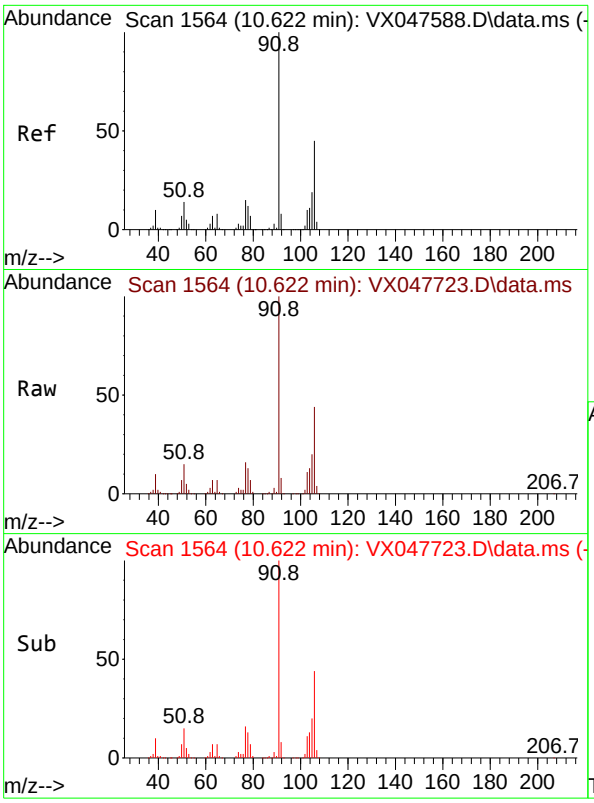


#68
m/p-Xylenes
Concen: 33.927 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:106 Resp: 143444

Ion	Ratio	Lower	Upper
106	100		
91	209.1	167.8	251.8



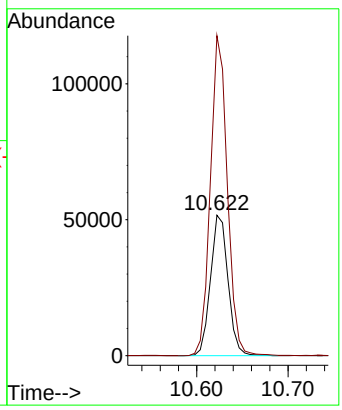


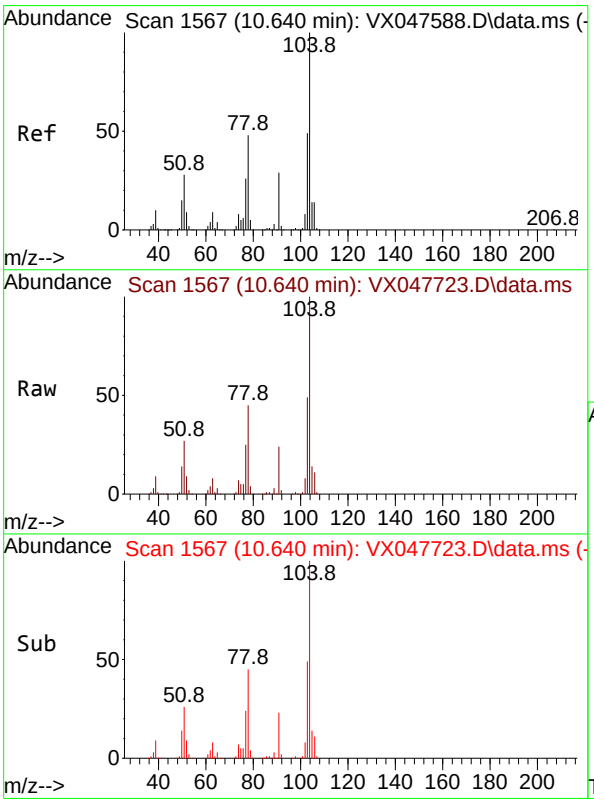
#69
o-Xylene
Concen: 16.861 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:106 Resp: 68954

Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4

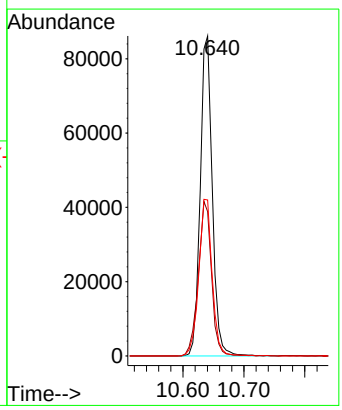


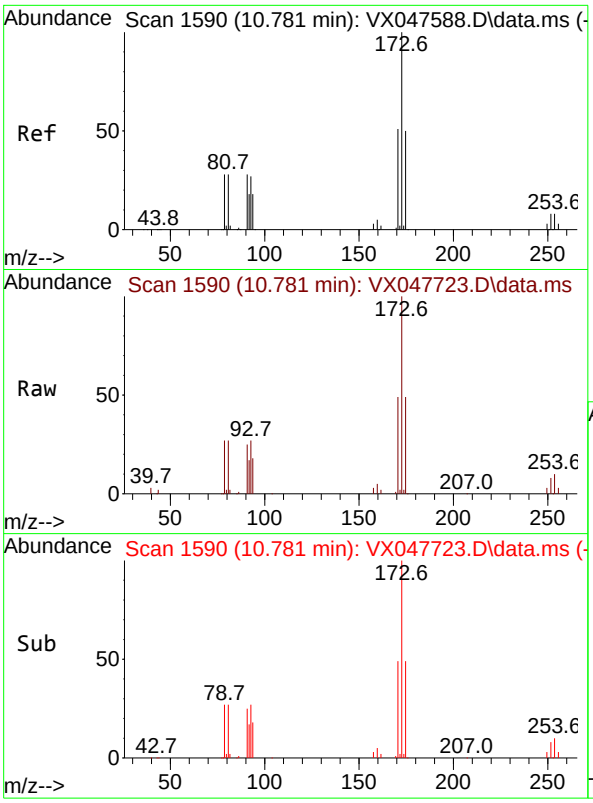


#70
Styrene
Concen: 16.552 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:104 Resp: 118603

Ion	Ratio	Lower	Upper
104	100		
78	53.0	43.1	64.7
103	54.4	43.1	64.7



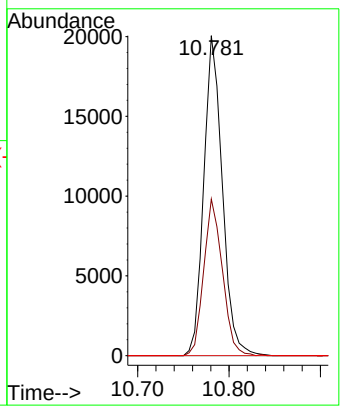


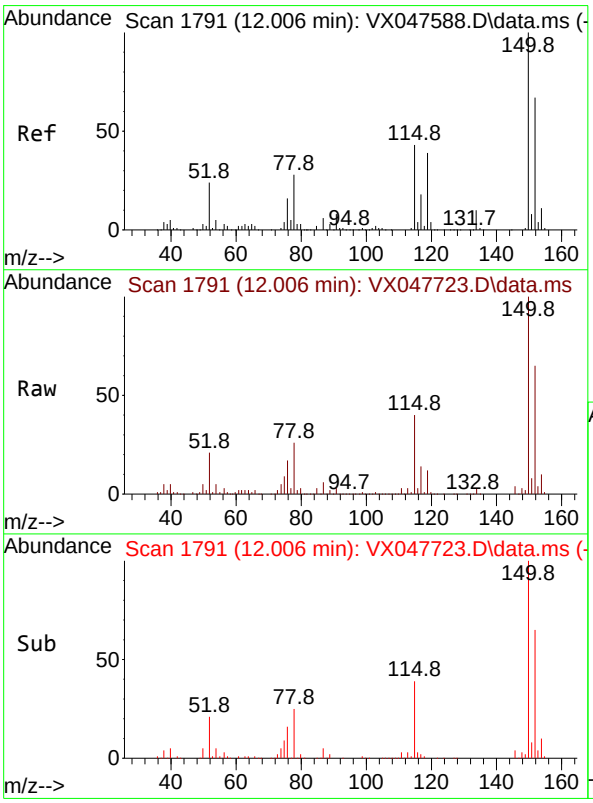
#71
Bromoform
Concen: 16.646 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:173 Resp: 28237

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.9	74.6
254	0.0	0.1	0.1#

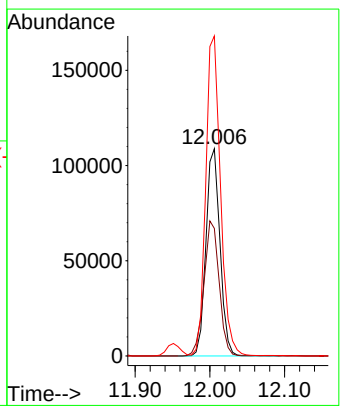


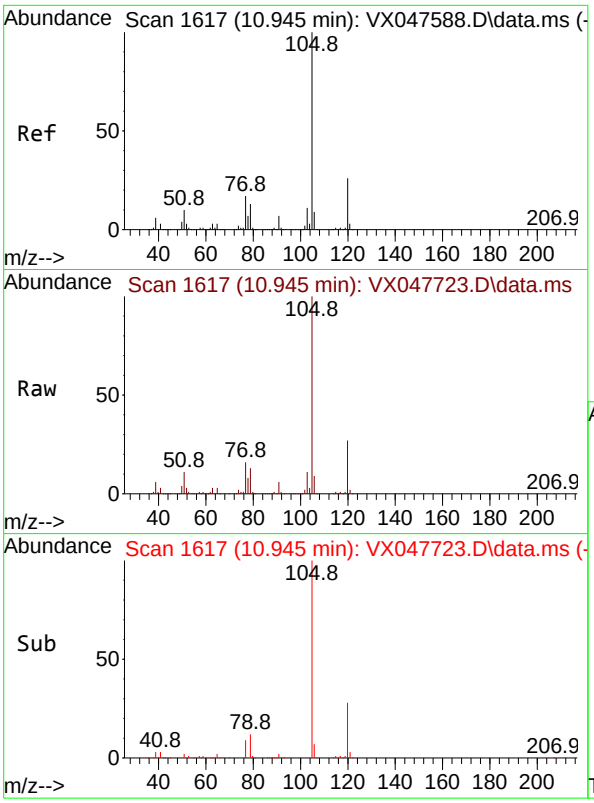


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:152 Resp: 141661

Ion	Ratio	Lower	Upper
152	100		
115	70.3	44.9	134.5
150	161.9	0.0	352.0



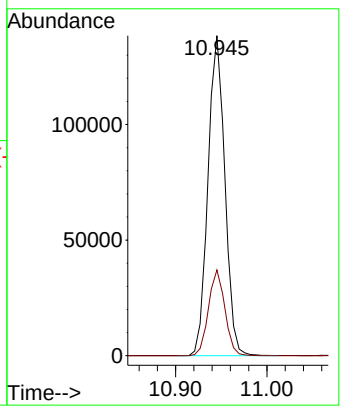


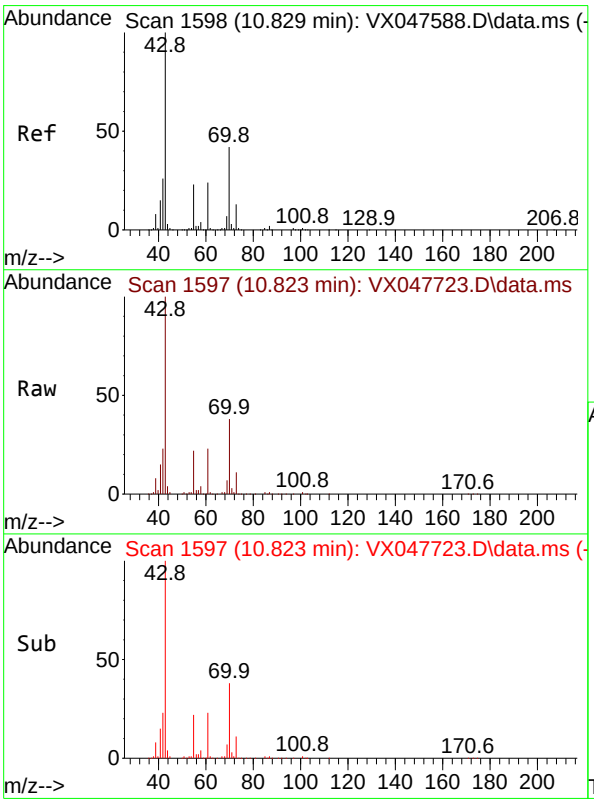
#73
Isopropylbenzene
Concen: 16.449 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:105 Resp: 177153

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

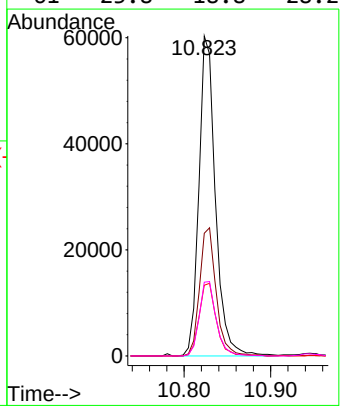


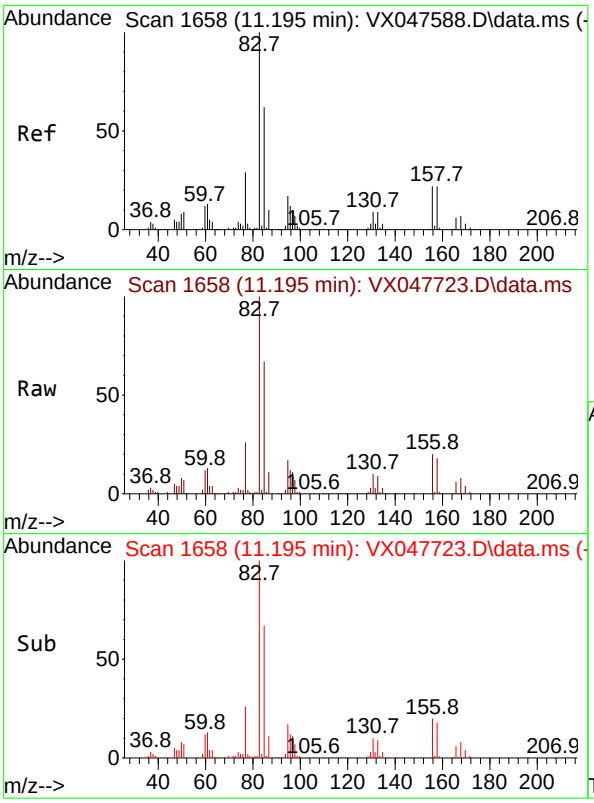


#74
N-amyl acetate
Concen: 16.296 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 80035

Ion	Ratio	Lower	Upper
43	100		
70	40.3	32.0	48.0
55	23.6	18.9	28.3
61	23.8	18.8	28.2



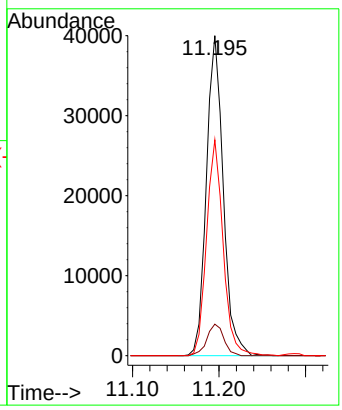


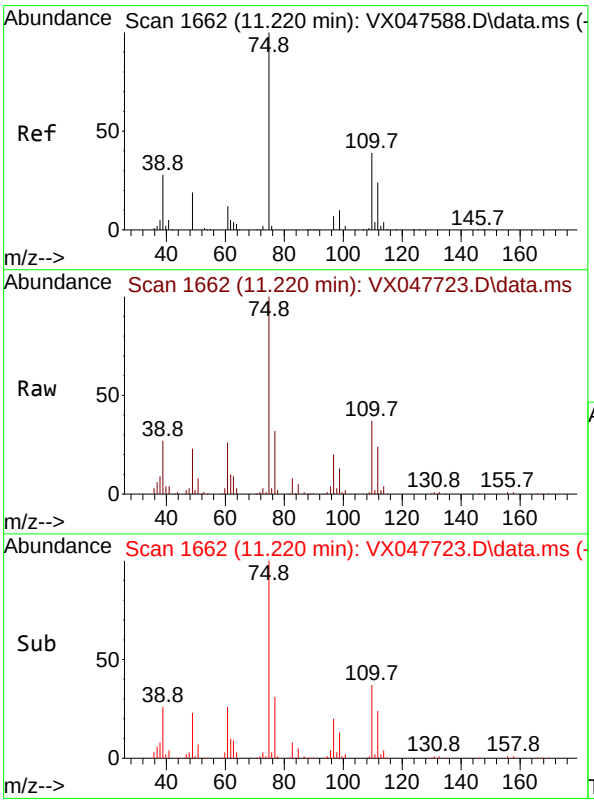
#75
1,1,2,2-Tetrachloroethane
Concen: 16.590 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 83 Resp: 54058

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	66.4	31.6	95.0

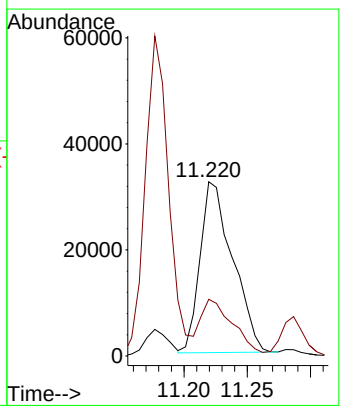


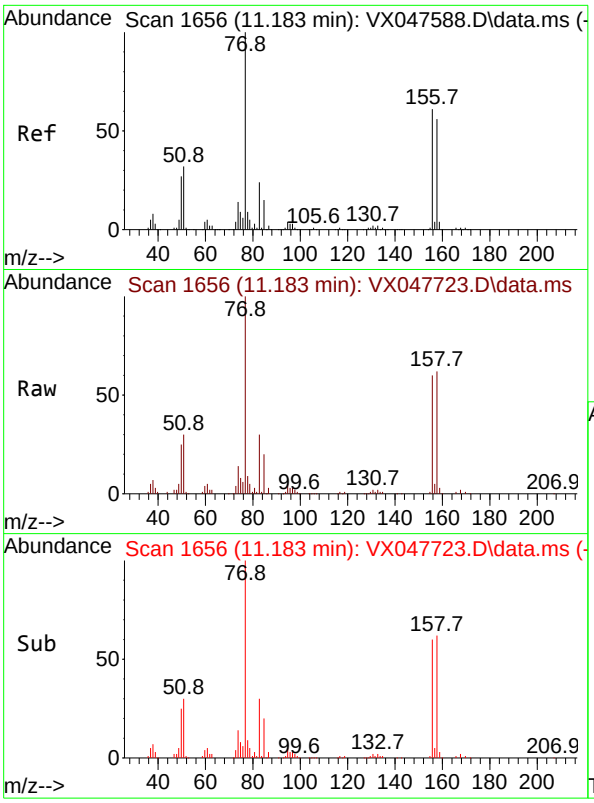


#76
1,2,3-Trichloropropane
Concen: 20.213 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 57976

Ion	Ratio	Lower	Upper
75	100		
77	32.3	18.8	56.4



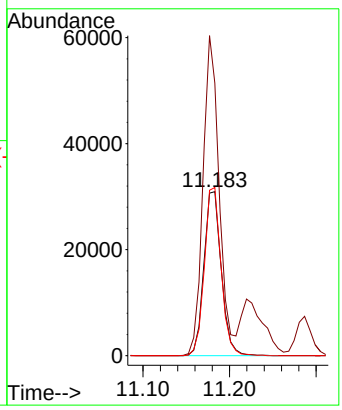


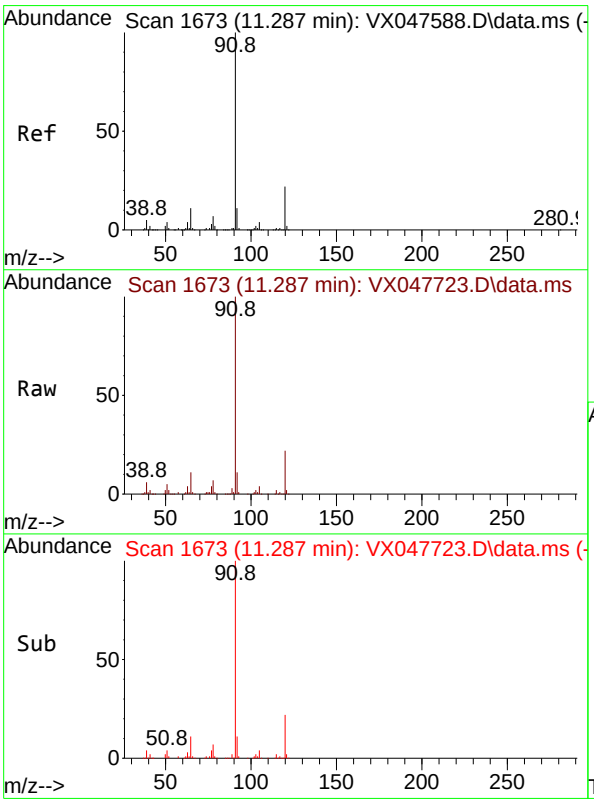
#77
Bromobenzene
Concen: 16.287 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:156 Resp: 43202

Ion	Ratio	Lower	Upper
156	100		
77	181.8	89.7	269.1
158	98.4	47.9	143.6

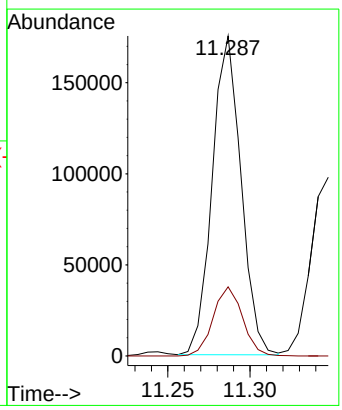


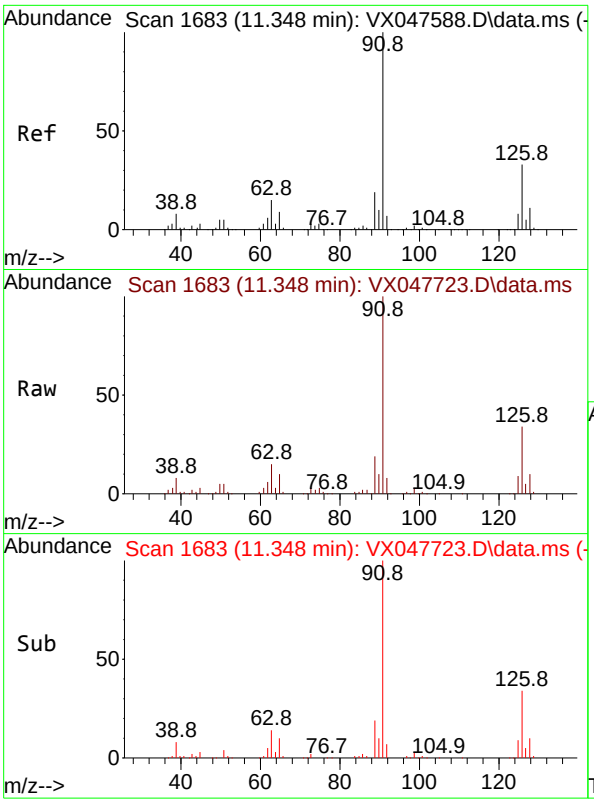


#78
n-propylbenzene
Concen: 16.736 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 213079

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1



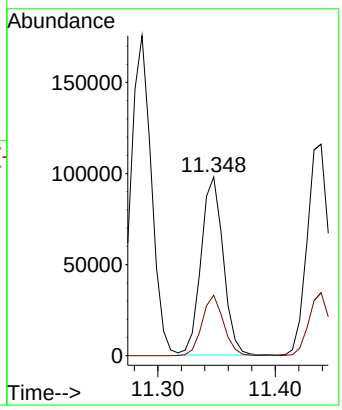


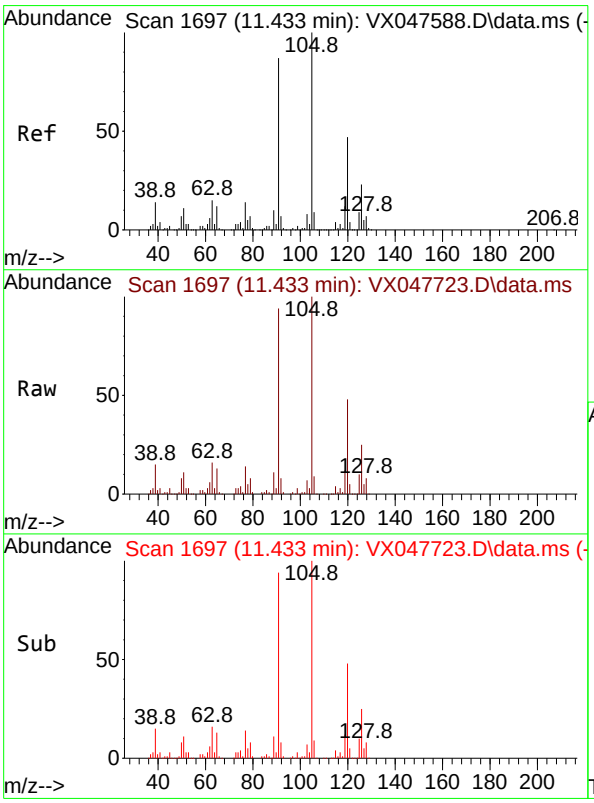
#79
2-Chlorotoluene
Concen: 16.446 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 91 Resp: 128239

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3

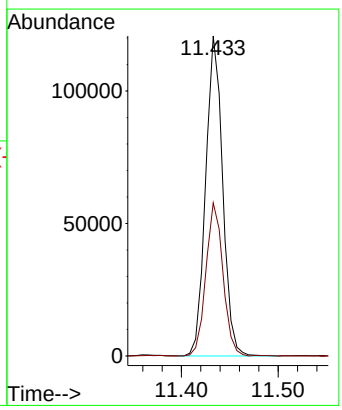


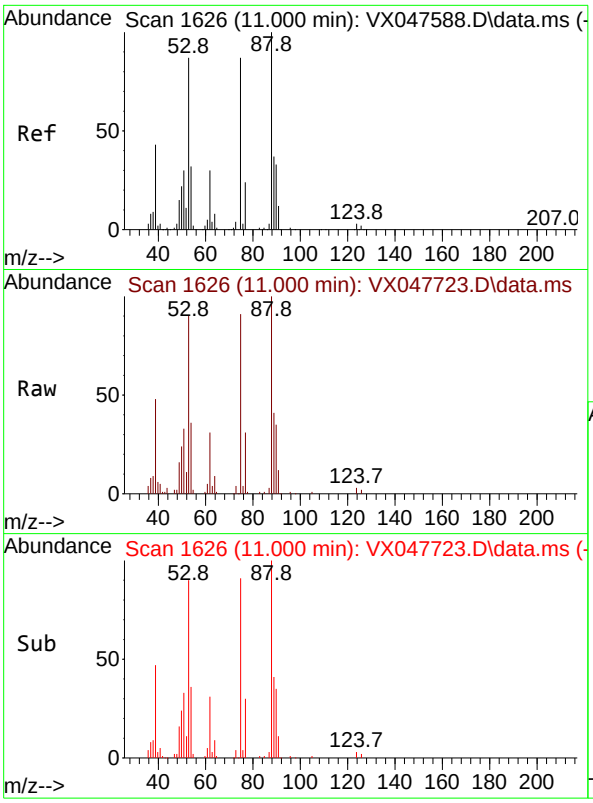


#80
1,3,5-Trimethylbenzene
Concen: 16.707 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 147832

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.6	70.8



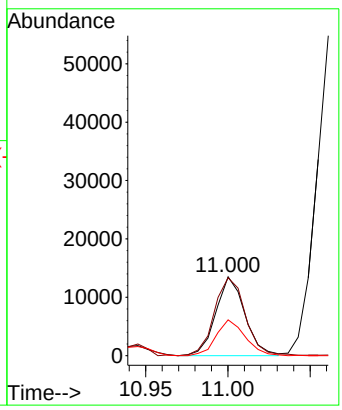


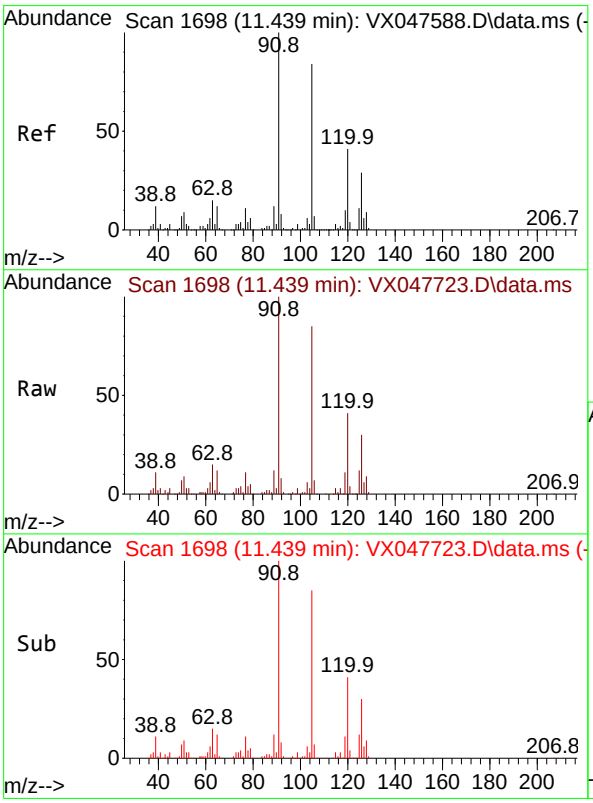
#81
trans-1,4-Dichloro-2-butene
Concen: 14.736 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 75 Resp: 16574

Ion	Ratio	Lower	Upper
75	100		
53	105.6	83.4	125.2
89	45.5	36.3	54.5

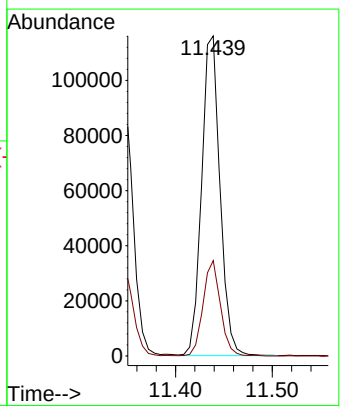


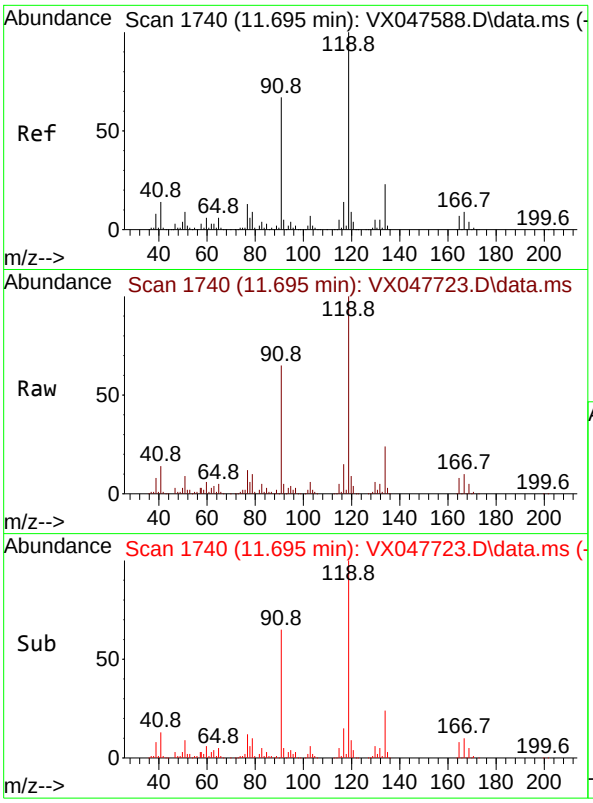


#82
4-Chlorotoluene
Concen: 16.677 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 153584

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6



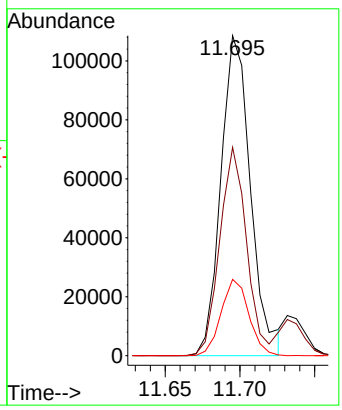


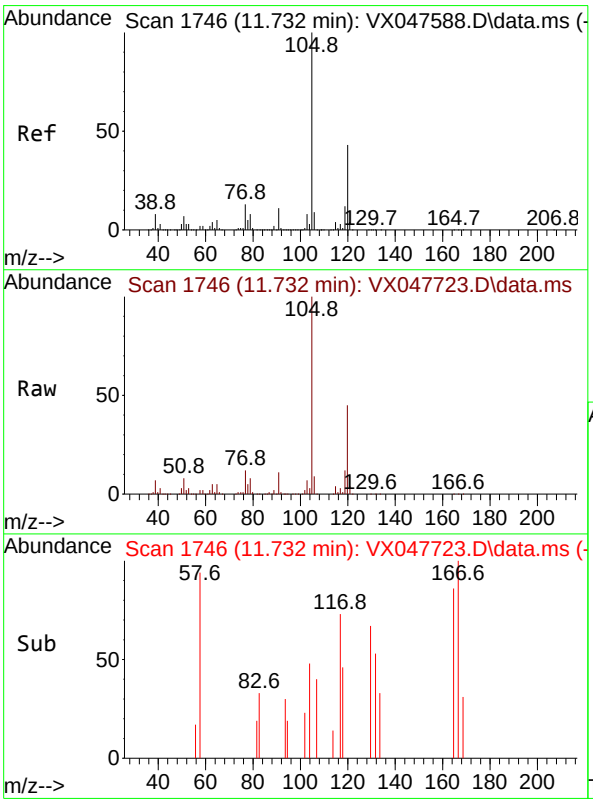
#83
tert-Butylbenzene
Concen: 16.497 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:119 Resp: 149430

Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.4	11.0	33.0

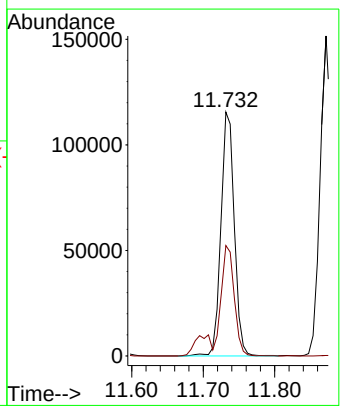


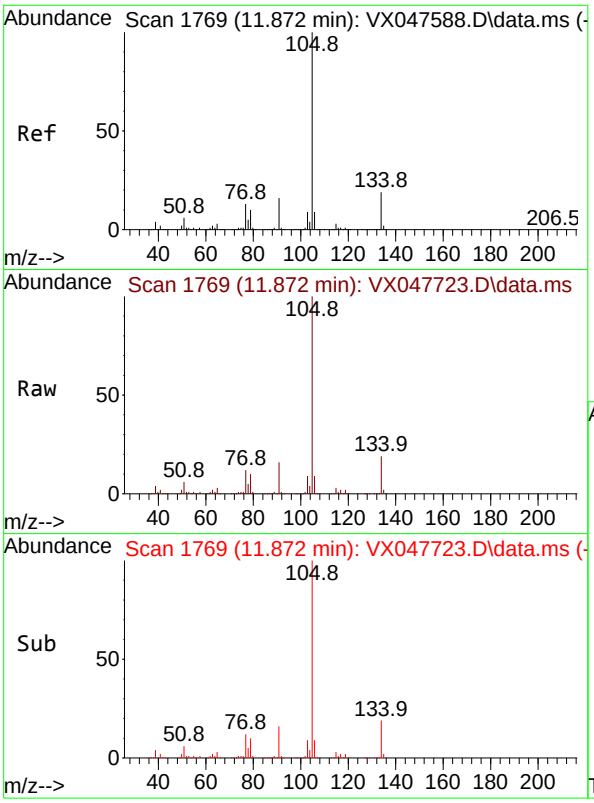


#84
1,2,4-Trimethylbenzene
Concen: 16.747 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 150232

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



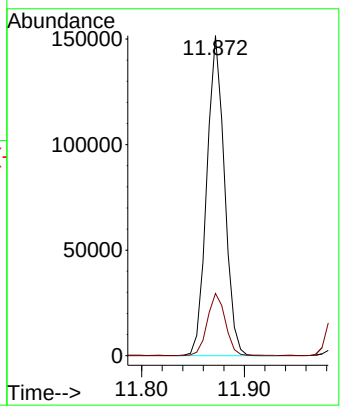


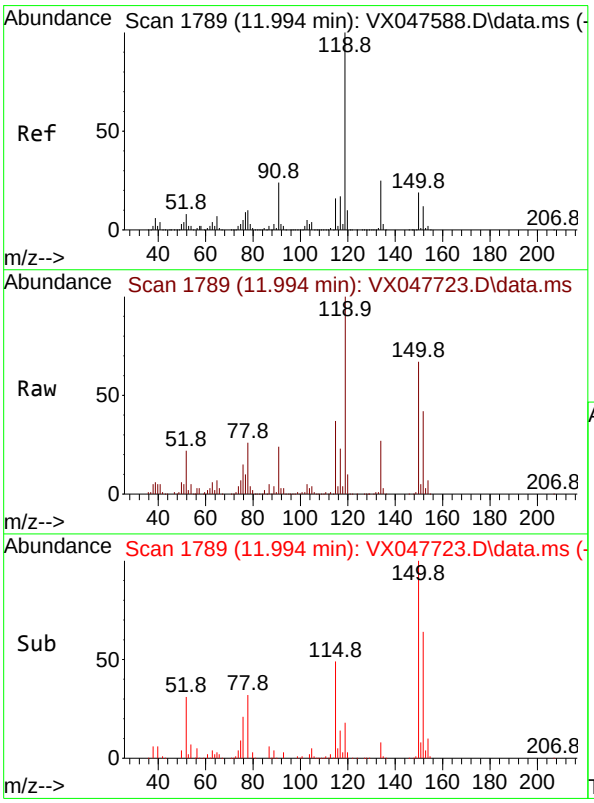
#85
sec-Butylbenzene
Concen: 16.825 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:105 Resp: 181026

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

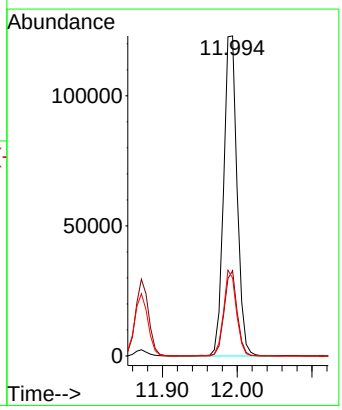


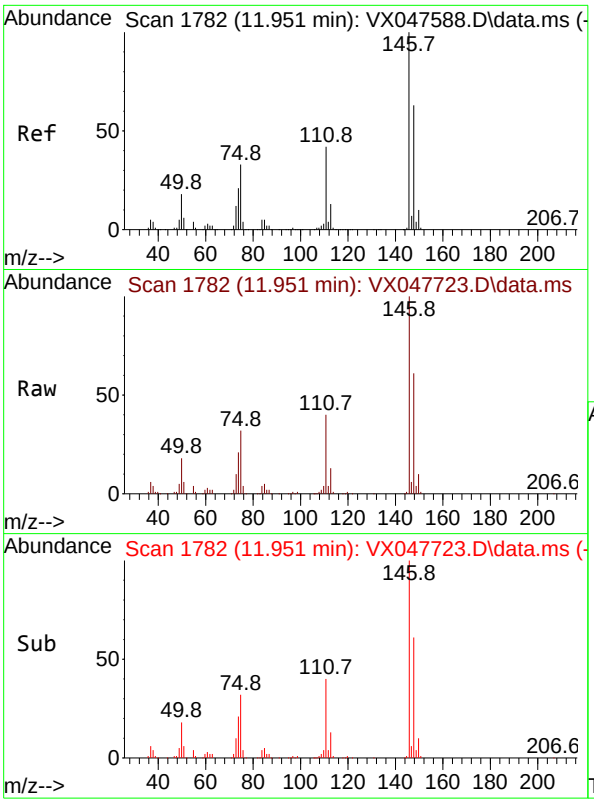


#86
p-Isopropyltoluene
Concen: 16.913 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:119 Resp: 154052

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	25.5	12.6	37.6



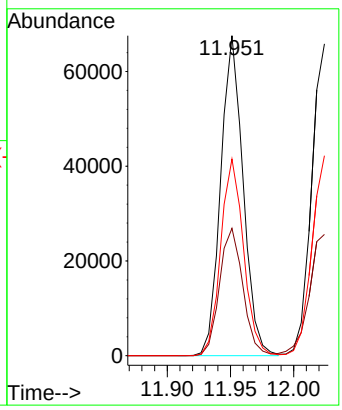


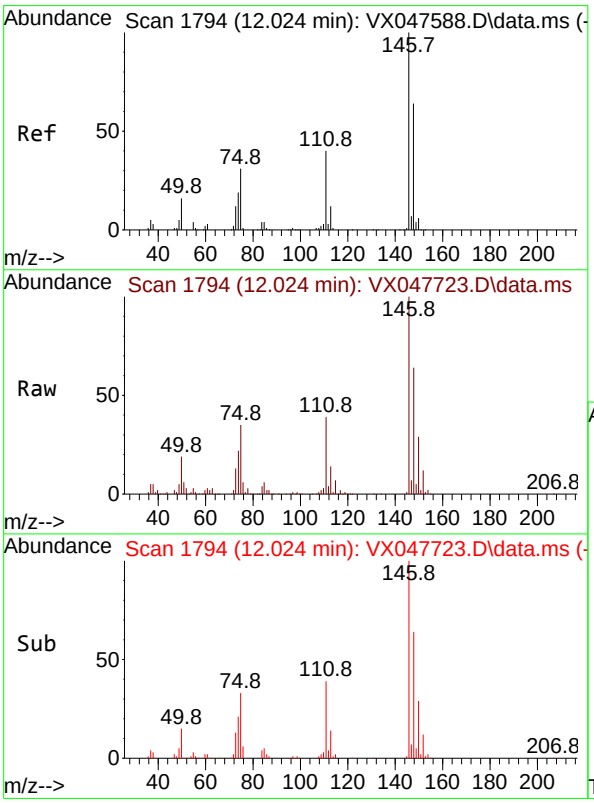
#87
1,3-Dichlorobenzene
Concen: 16.875 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:146 Resp: 83142

Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.5	64.5
148	62.7	32.0	96.0

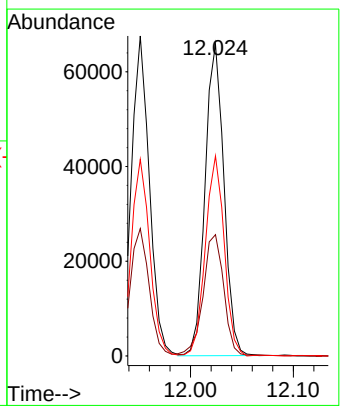


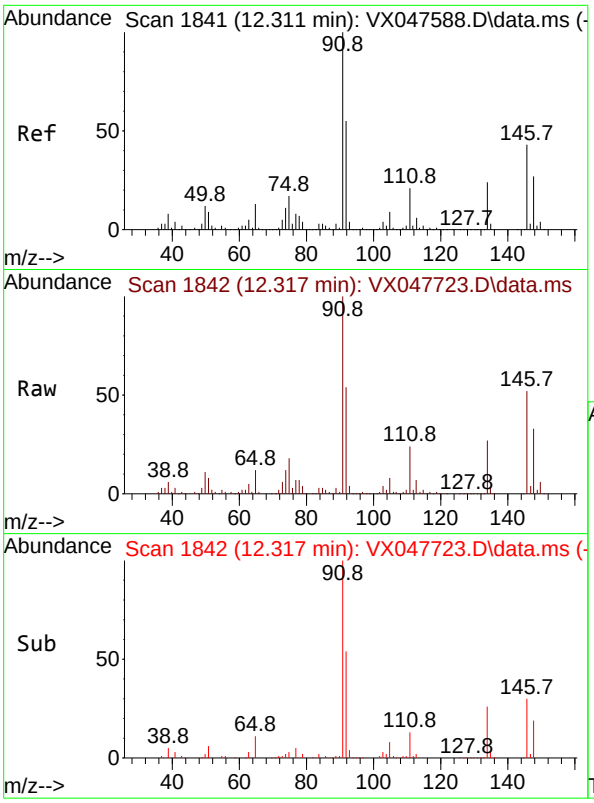


#88
1,4-Dichlorobenzene
Concen: 16.605 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 83968

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.8	62.4
148	63.9	31.7	95.1



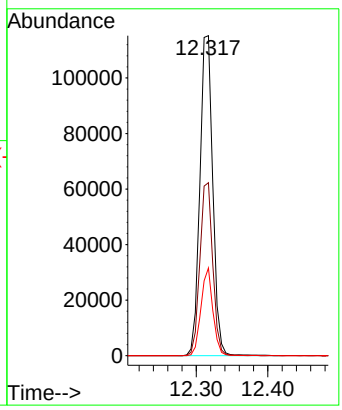


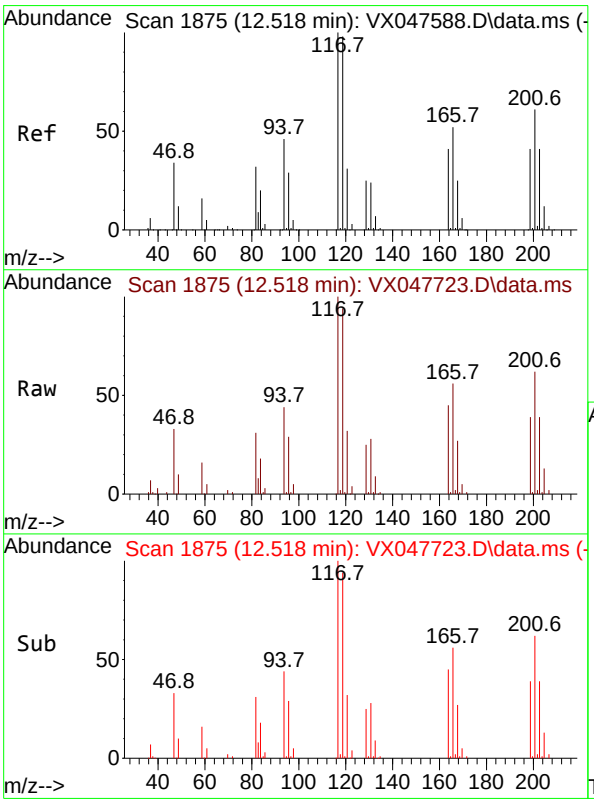
#89
n-Butylbenzene
Concen: 17.140 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 91 Resp: 144464

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.6	82.7
134	25.2	12.6	37.8

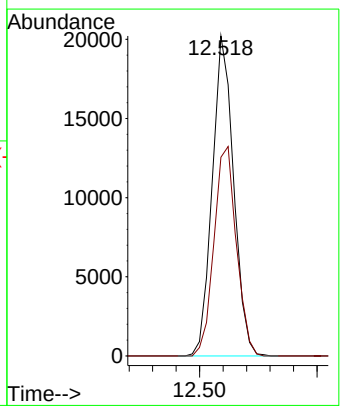


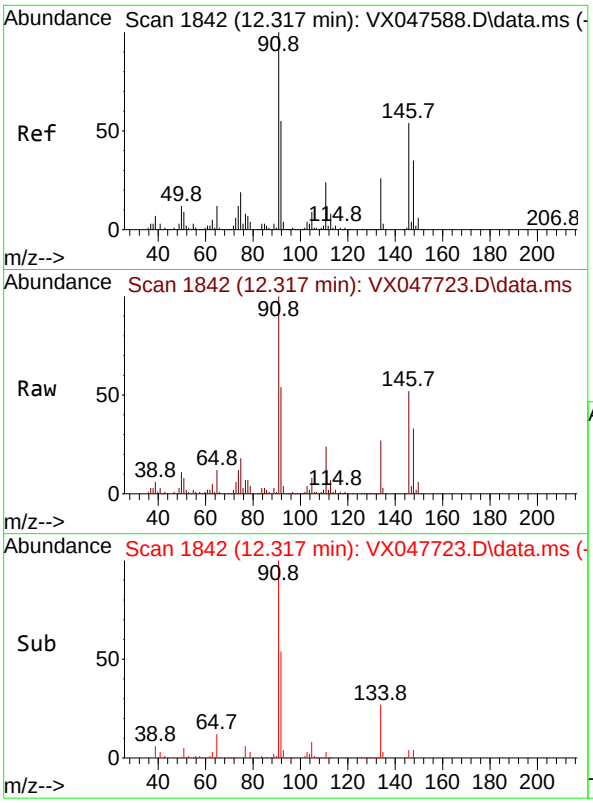


#90
Hexachloroethane
Concen: 15.981 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 25557

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5



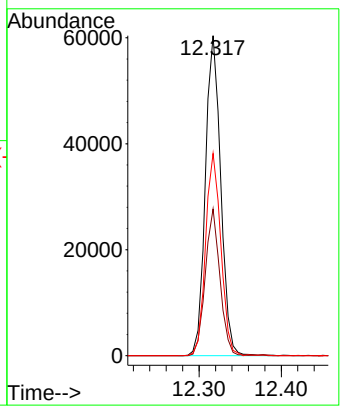


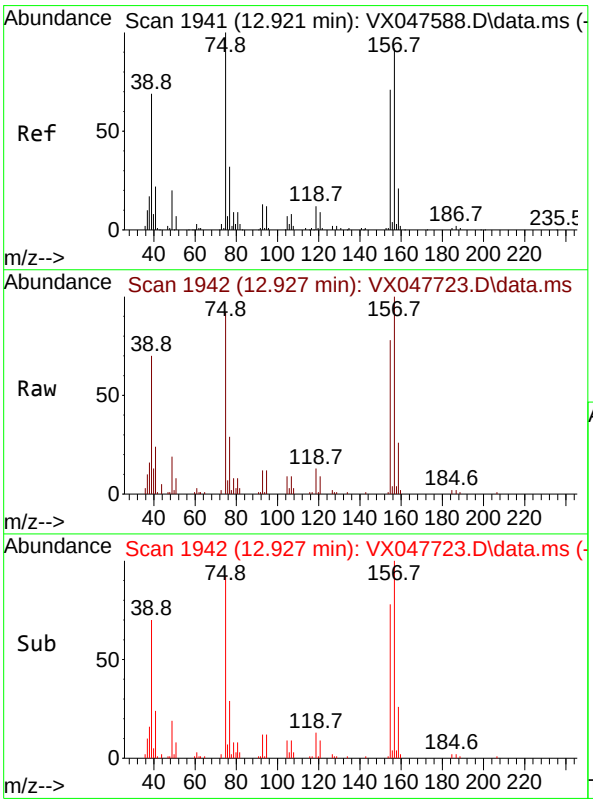
#91
1,2-Dichlorobenzene
Concen: 16.683 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:146 Resp: 78309

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	62.9	31.8	95.4

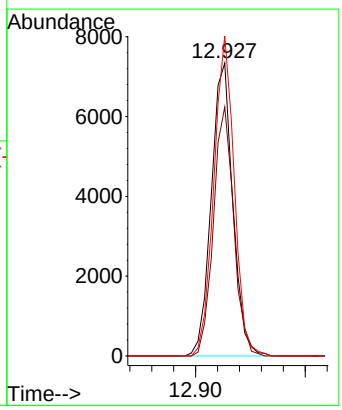


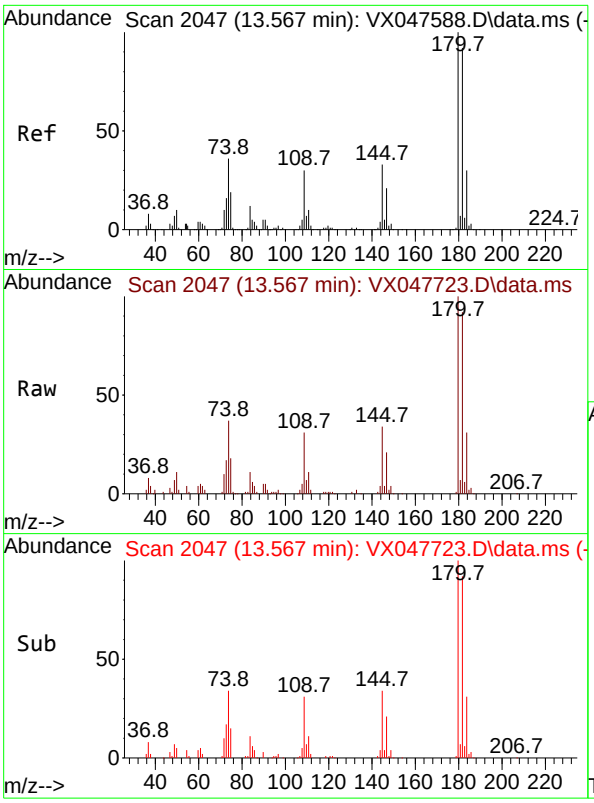


#92
1,2-Dibromo-3-Chloropropane
Concen: 15.194 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 10024

Ion	Ratio	Lower	Upper
75	100		
155	79.9	37.7	113.1
157	103.6	49.8	149.4



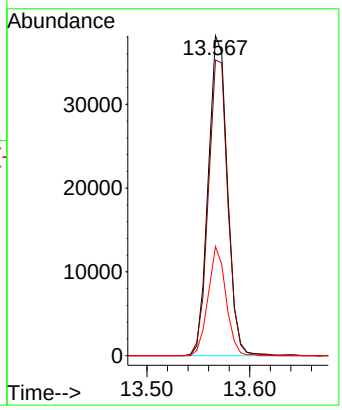


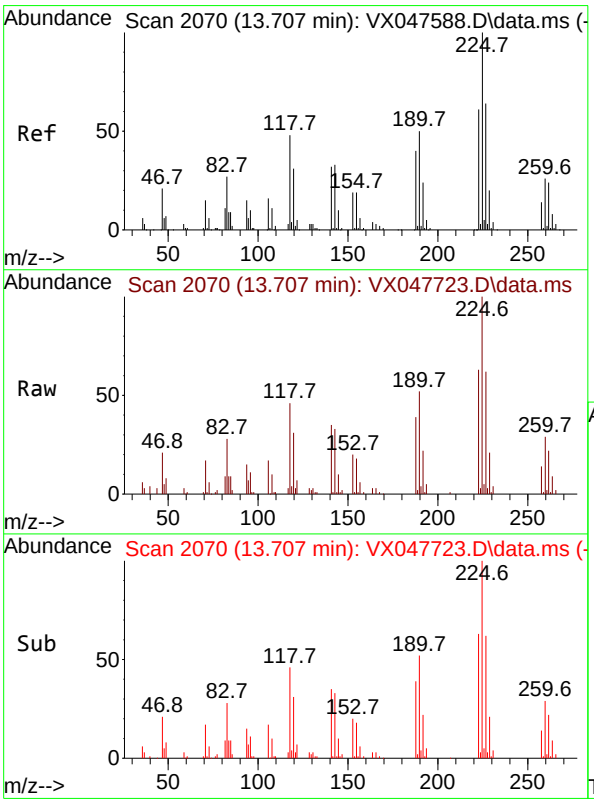
#93
1,2,4-Trichlorobenzene
Concen: 16.182 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:180 Resp: 49366

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.6	139.8
145	31.9	16.4	49.1

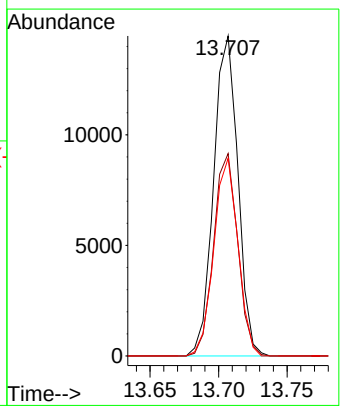


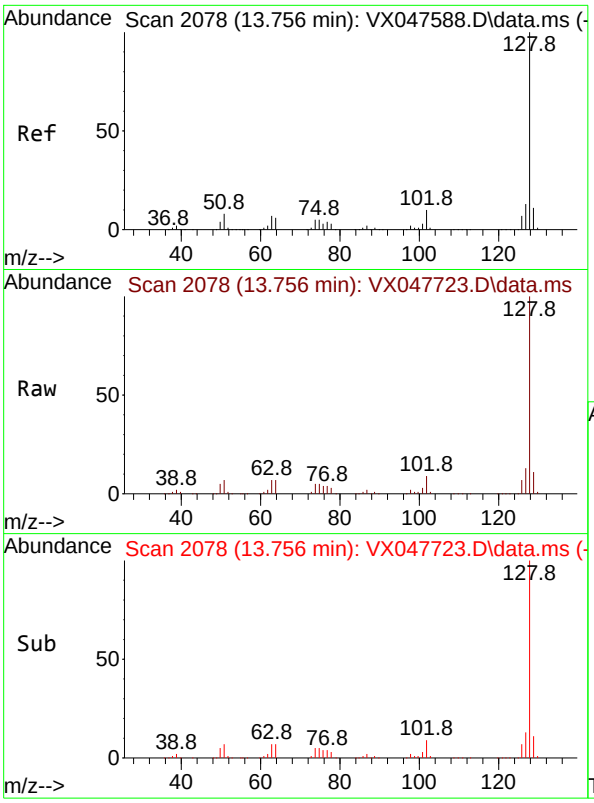


#94
Hexachlorobutadiene
Concen: 17.165 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:225 Resp: 17786

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.7	95.1
227	61.4	32.0	96.0



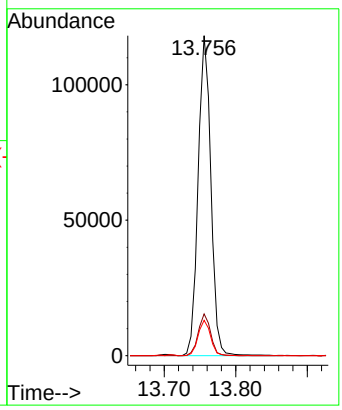


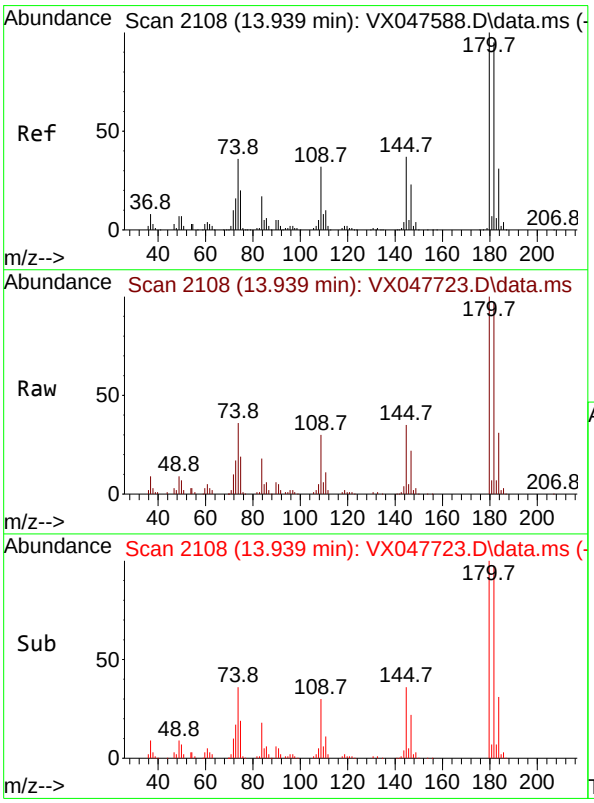
#95
Naphthalene
Concen: 15.742 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:128 Resp: 146235

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

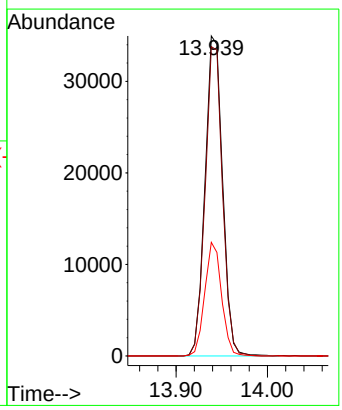




#96
1,2,3-Trichlorobenzene
Concen: 16.373 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:180 Resp: 46461

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.6	142.8
145	34.1	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	149304	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270355	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	243306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	119961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	116606	49.065	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.140%			
35) Dibromofluoromethane	5.379	113	90861	50.112	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.220%			
50) Toluene-d8	8.634	98	307967	49.087	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.180%			
62) 4-Bromofluorobenzene	11.061	95	117402	49.307	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	94404	61.061	ug/l	97
3) Chloromethane	1.300	50	117058	57.609	ug/l	98
4) Vinyl Chloride	1.380	62	115926	58.282	ug/l	100
5) Bromomethane	1.617	94	74054	58.713	ug/l	99
6) Chloroethane	1.697	64	75449	56.753	ug/l	97
7) Trichlorofluoromethane	1.898	101	163767	55.451	ug/l	99
8) Diethyl Ether	2.136	74	65417	54.148	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	95418	55.254	ug/l	99
10) Methyl Iodide	2.459	142	145088	53.870	ug/l	100
11) Tert butyl alcohol	2.946	59	61154	231.046	ug/l	100
12) 1,1-Dichloroethene	2.325	96	98052	55.275	ug/l	96
13) Acrolein	2.239	56	68714	281.718	ug/l	98
14) Allyl chloride	2.666	41	185829	50.766	ug/l	97
15) Acrylonitrile	3.062	53	282724	288.375	ug/l	99
16) Acetone	2.373	43	220076	212.978	ug/l	100
17) Carbon Disulfide	2.520	76	272927	56.202	ug/l	99
18) Methyl Acetate	2.703	43	130811	56.883	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	349001	53.896	ug/l	99
20) Methylene Chloride	2.794	84	119000	54.405	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	106771	55.907	ug/l	99
22) Diisopropyl ether	3.757	45	386641	54.502	ug/l	98
23) Vinyl Acetate	3.715	43	1566296	275.867	ug/l	100
24) 1,1-Dichloroethane	3.611	63	205496	54.500	ug/l	99
25) 2-Butanone	4.544	43	330135	256.128	ug/l	97
26) 2,2-Dichloropropane	4.471	77	130530	41.645	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	128773	55.058	ug/l	95
28) Bromochloromethane	4.891	49	86403	52.489	ug/l	99
29) Tetrahydrofuran	4.995	42	217984	281.124	ug/l	98
30) Chloroform	5.086	83	207673	54.504	ug/l	97
31) Cyclohexane	5.458	56	164278	52.311	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	171647	53.110	ug/l	99
36) 1,1-Dichloropropene	5.684	75	134570	50.792	ug/l	99
37) Ethyl Acetate	4.702	43	146380	51.600	ug/l	99
38) Carbon Tetrachloride	5.672	117	141128	49.026	ug/l	93
39) Methylcyclohexane	7.366	83	153808	51.142	ug/l	99
40) Benzene	6.025	78	428760	53.282	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	79236	54.104	ug/l		98
42) 1,2-Dichloroethane	6.074	62	157471	51.431	ug/l		98
43) Isopropyl Acetate	6.324	43	243453	52.327	ug/l		99
44) Trichloroethene	7.110	130	104230	53.576	ug/l		94
45) 1,2-Dichloropropane	7.415	63	110894	53.818	ug/l		99
46) Dibromomethane	7.568	93	79627	53.104	ug/l		97
47) Bromodichloromethane	7.805	83	164232	53.077	ug/l		96
48) Methyl methacrylate	7.677	41	121164	52.283	ug/l		98
49) 1,4-Dioxane	7.647	88	28012	1196.046	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	703728	272.809	ug/l		100
52) Toluene	8.702	92	263320	53.113	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	159381	50.499	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	173466	51.421	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	104553	54.692	ug/l		98
56) Ethyl methacrylate	9.104	69	163467	54.448	ug/l		96
57) 1,3-Dichloropropane	9.293	76	179171	54.560	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	360369	251.172	ug/l		100
59) 2-Hexanone	9.415	43	483347	260.895	ug/l		99
60) Dibromochloromethane	9.506	129	119117	54.078	ug/l		99
61) 1,2-Dibromoethane	9.592	107	106971	54.937	ug/l		100
64) Tetrachloroethene	9.262	164	82104	51.765	ug/l		96
65) Chlorobenzene	10.061	112	288305	52.159	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	98820	51.810	ug/l		98
67) Ethyl Benzene	10.177	91	491426	51.527	ug/l		99
68) m/p-Xylenes	10.287	106	367469	103.518	ug/l		99
69) o-Xylene	10.628	106	180297	52.511	ug/l		98
70) Styrene	10.640	104	317529	52.779	ug/l		99
71) Bromoform	10.780	173	74197	52.097	ug/l	#	100
73) Isopropylbenzene	10.945	105	453473	49.722	ug/l		99
74) N-amyl acetate	10.829	43	210798	50.685	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	143186	51.892	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	157182	64.715	ug/l		89
77) Bromobenzene	11.183	156	112329	50.007	ug/l		98
78) n-propylbenzene	11.286	91	533484	49.483	ug/l		99
79) 2-Chlorotoluene	11.347	91	324017	49.069	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	370433	49.437	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	44224	46.433	ug/l		97
82) 4-Chlorotoluene	11.439	91	386898	49.610	ug/l		99
83) tert-Butylbenzene	11.695	119	373585	48.704	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	376730	49.591	ug/l		100
85) sec-Butylbenzene	11.872	105	445326	48.878	ug/l		100
86) p-Isopropyltoluene	11.994	119	373936	48.479	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	205631	49.286	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	207463	48.449	ug/l		98
89) n-Butylbenzene	12.317	91	345737	48.442	ug/l		98
90) Hexachloroethane	12.518	117	65317	48.232	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	198557	49.953	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27323	48.908	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	123384	47.762	ug/l		98
94) Hexachlorobutadiene	13.707	225	39729	45.277	ug/l		99
95) Naphthalene	13.756	128	389975	49.575	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	118608	49.357	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

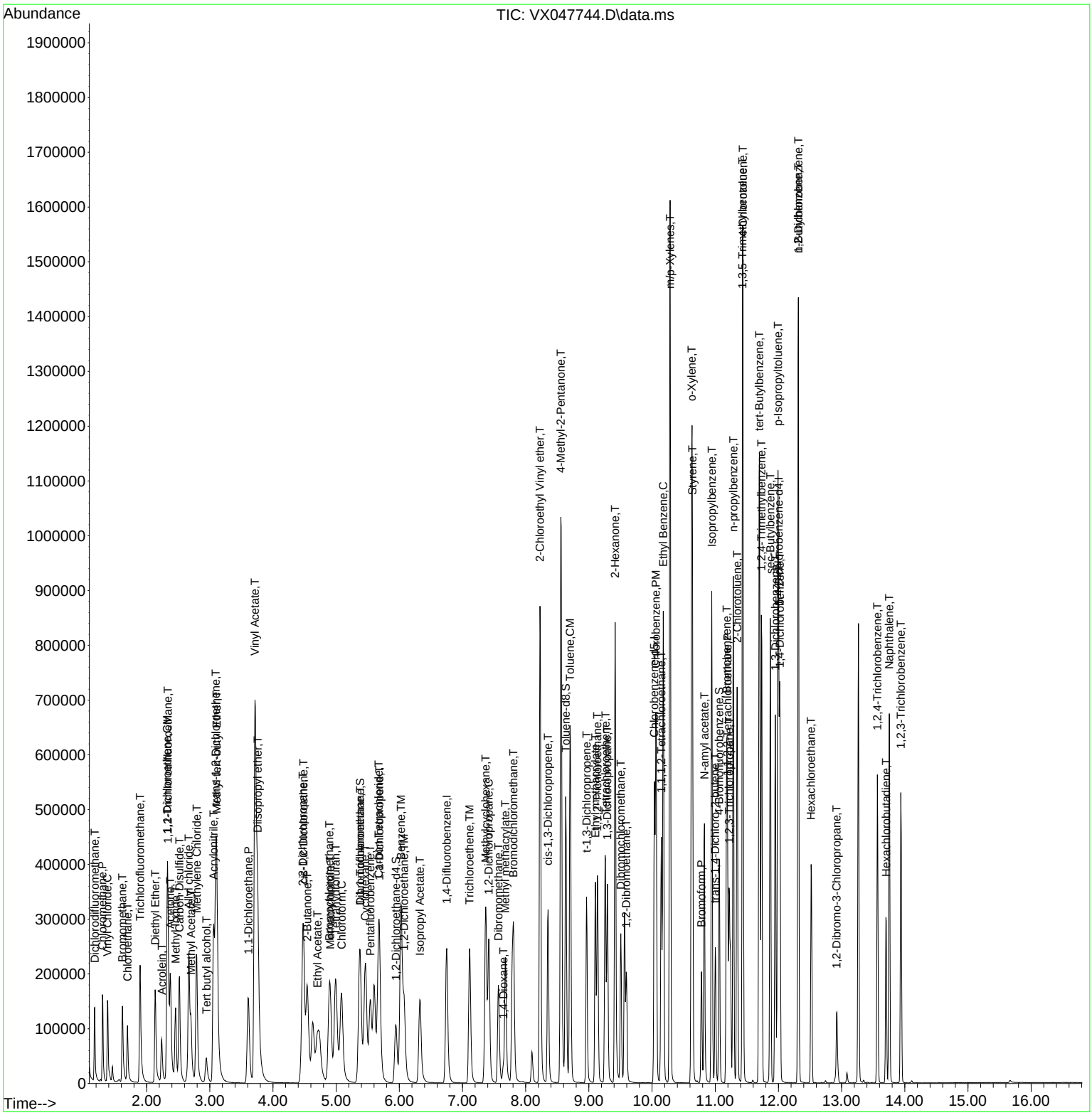
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

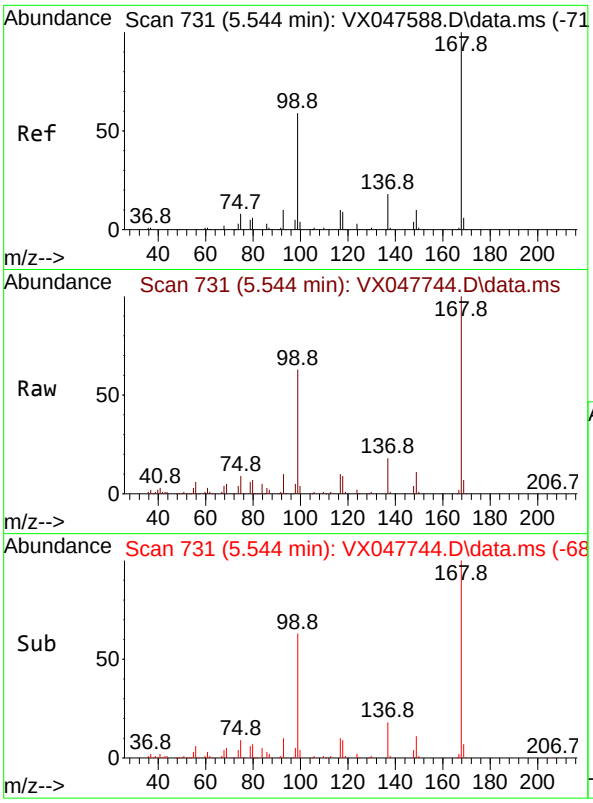
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



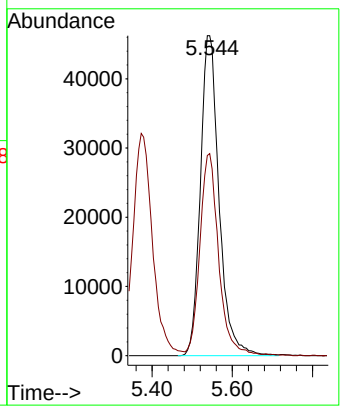


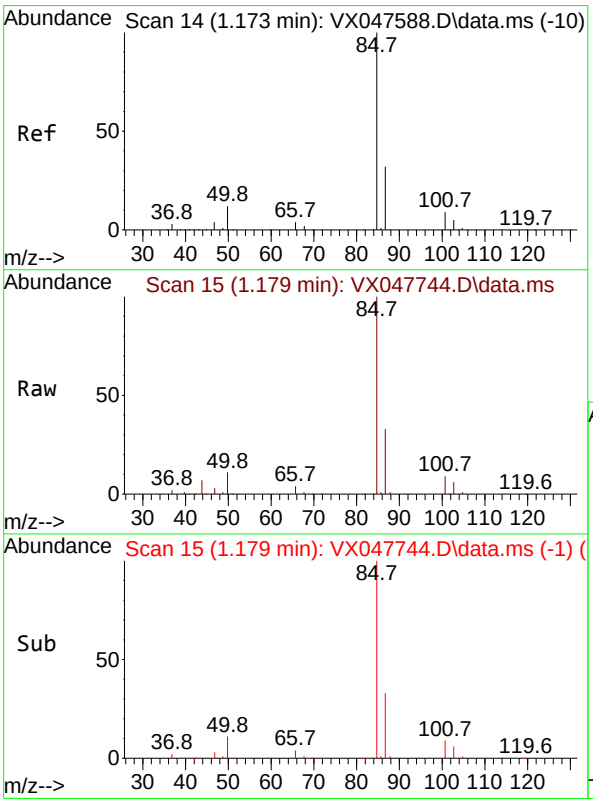
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 149304

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2

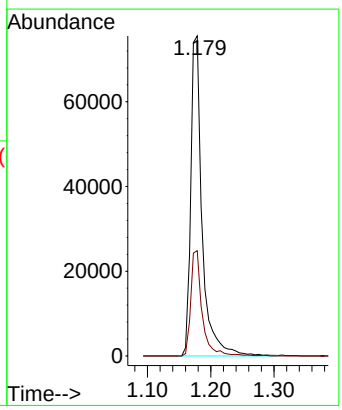


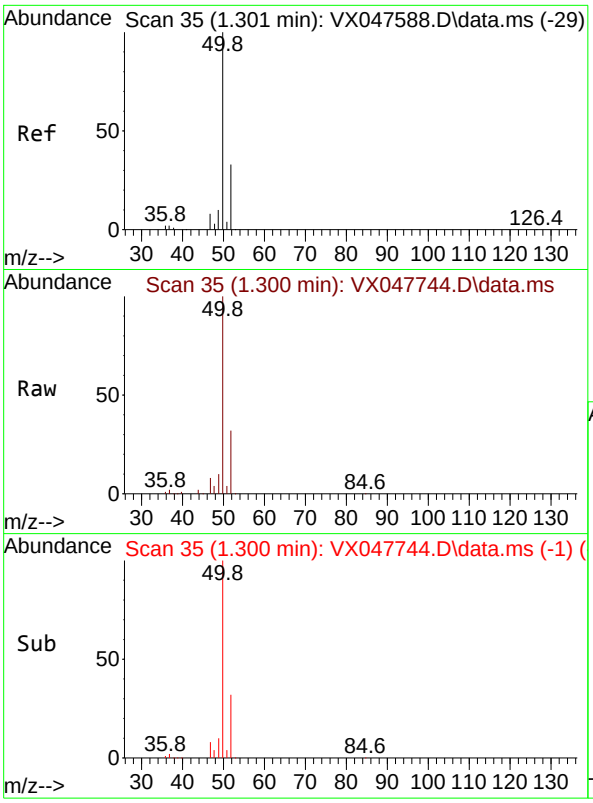


#2
Dichlorodifluoromethane
Concen: 61.061 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 85 Resp: 94404

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



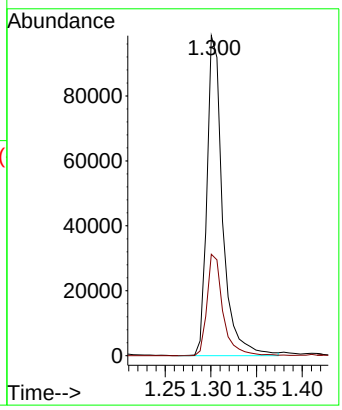


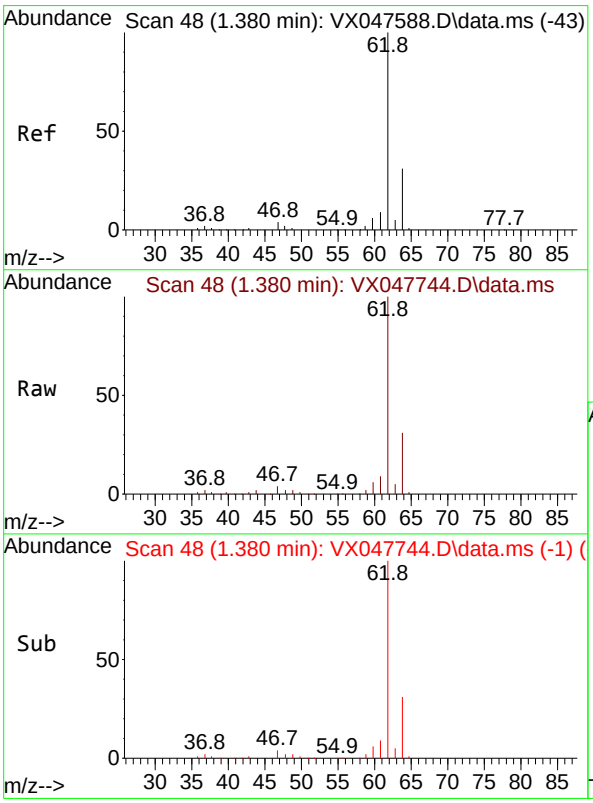
#3
Chloromethane
Concen: 57.609 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 117058

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.1	39.1

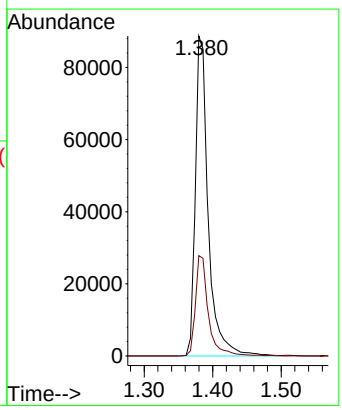


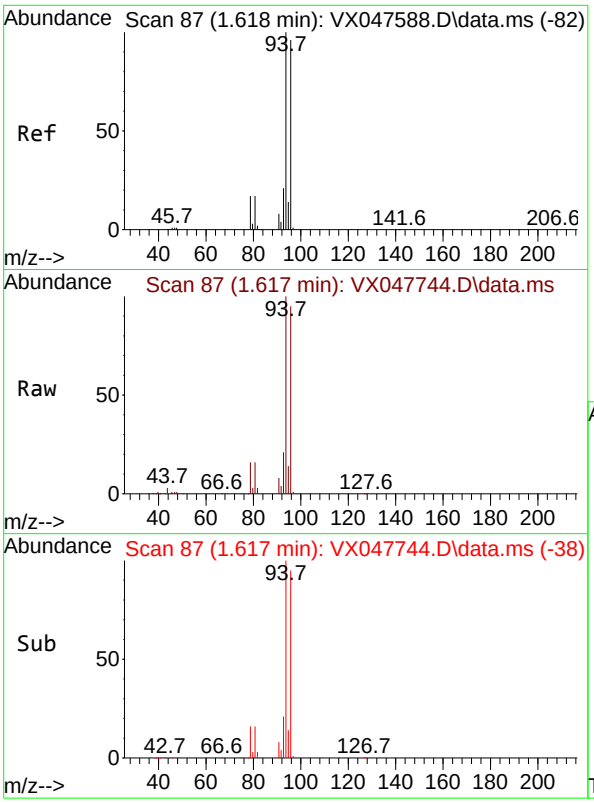


#4
Vinyl Chloride
Concen: 58.282 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 115926

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.9	37.3



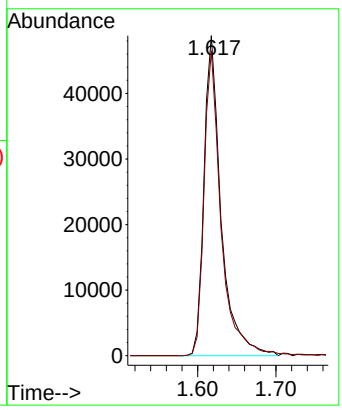


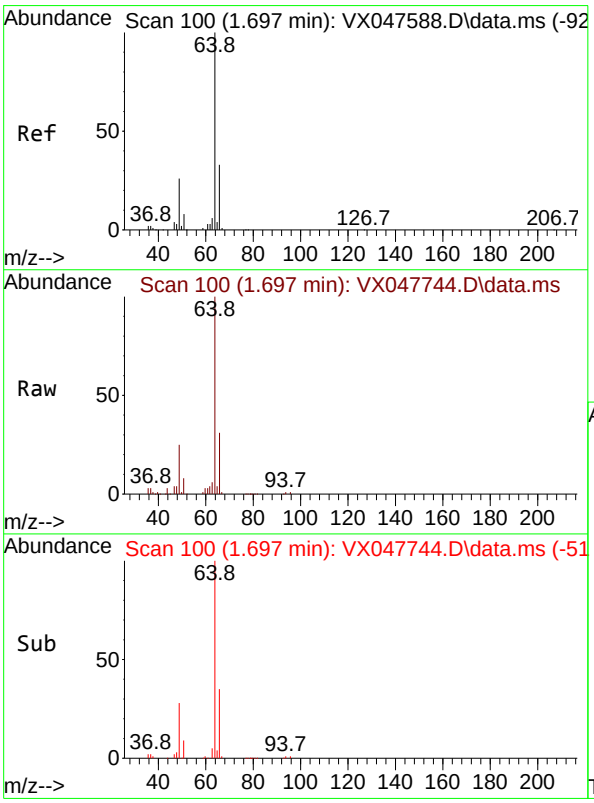
#5
Bromomethane
Concen: 58.713 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 74054

Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0

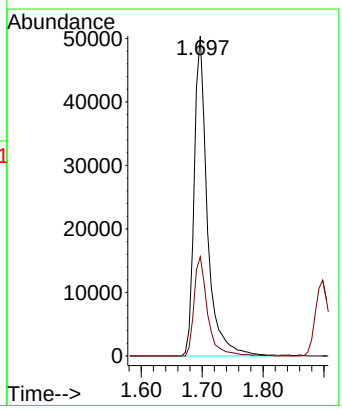


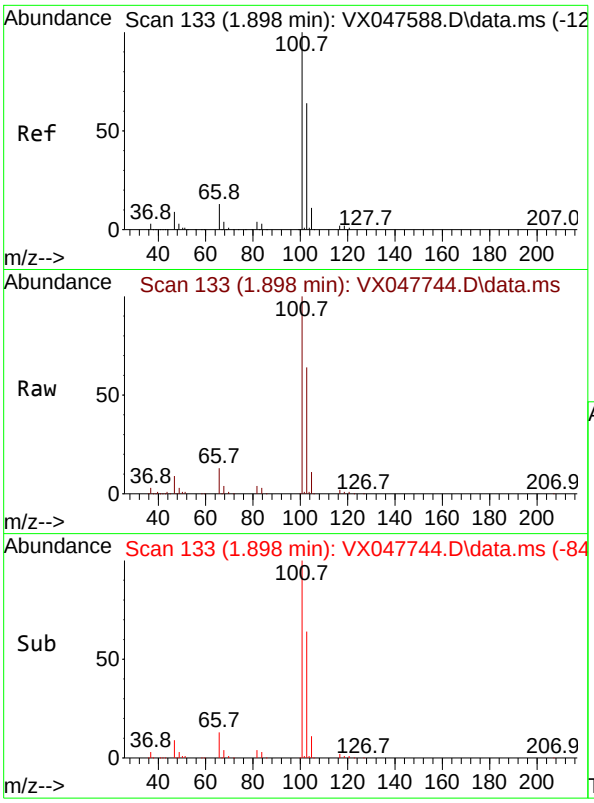


#6
Chloroethane
Concen: 56.753 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 64 Resp: 75449

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1



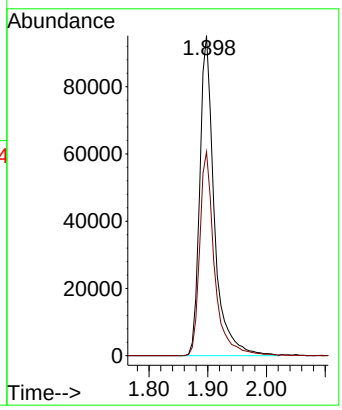


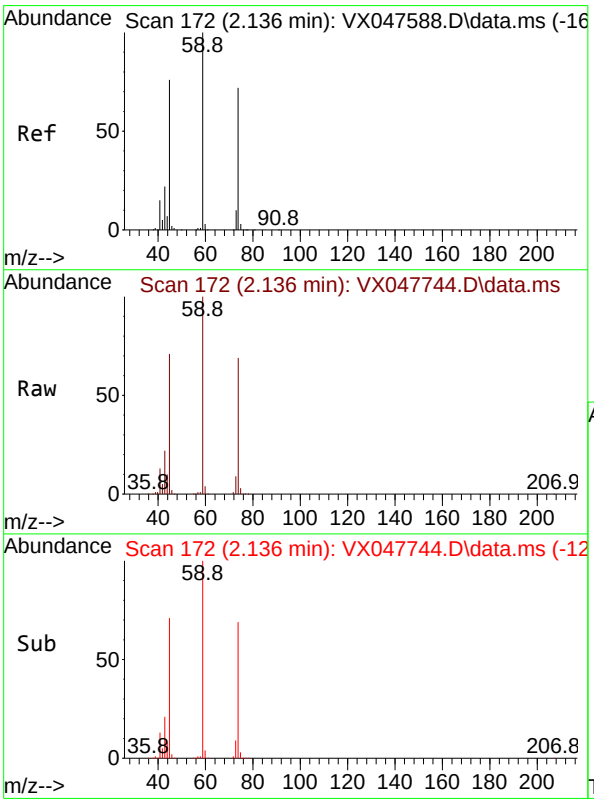
#7
Trichlorofluoromethane
Concen: 55.451 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 163767

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.4	77.2

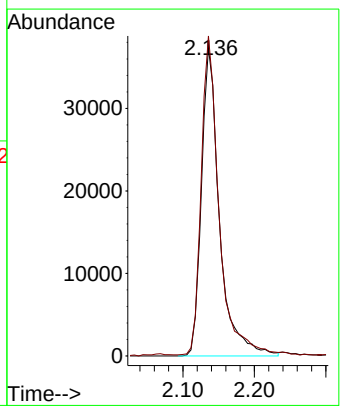


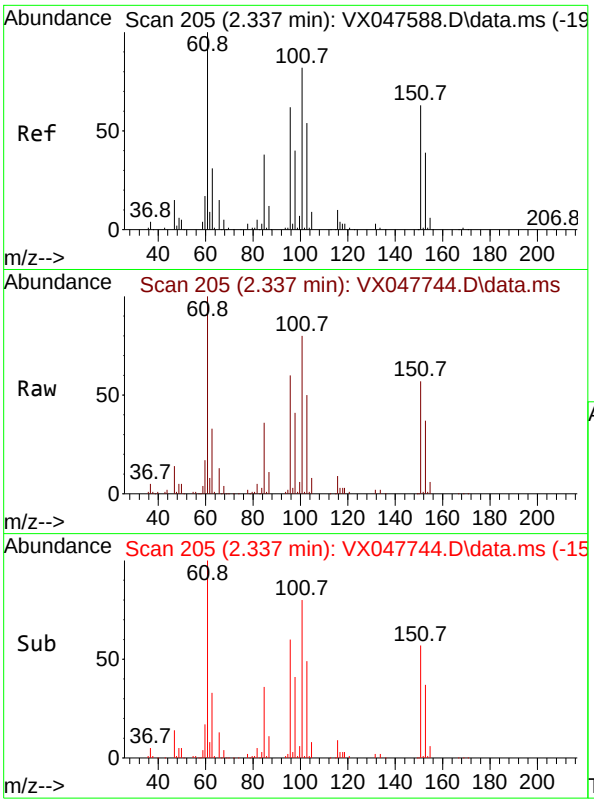


#8
Diethyl Ether
Concen: 54.148 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 74 Resp: 65417

Ion	Ratio	Lower	Upper
74	100		
45	102.9	52.3	156.8



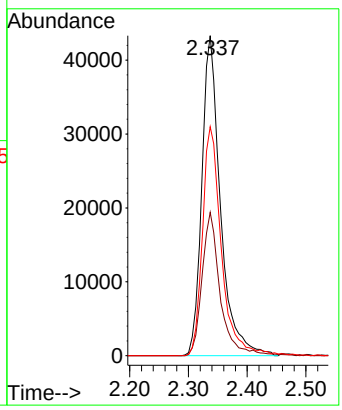


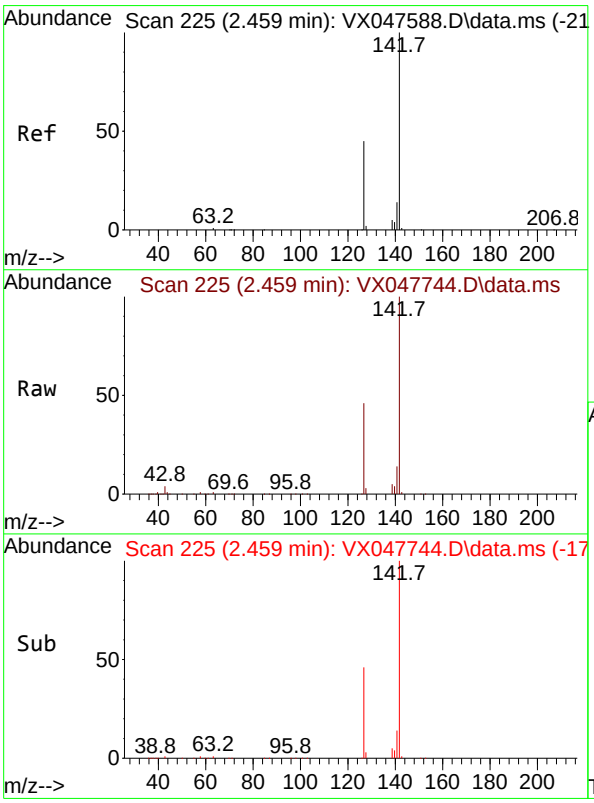
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.254 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 95418

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.5	53.3
151	73.2	59.4	89.0

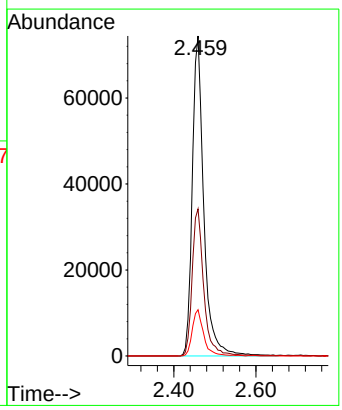


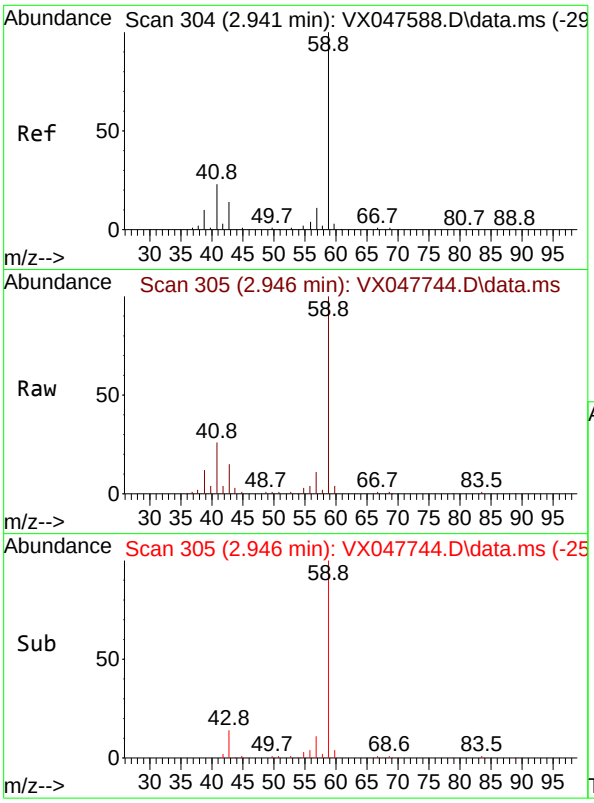


#10
Methyl Iodide
Concen: 53.870 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:142 Resp: 145088

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.3	11.4	17.0



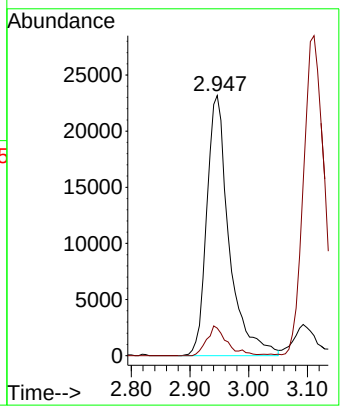


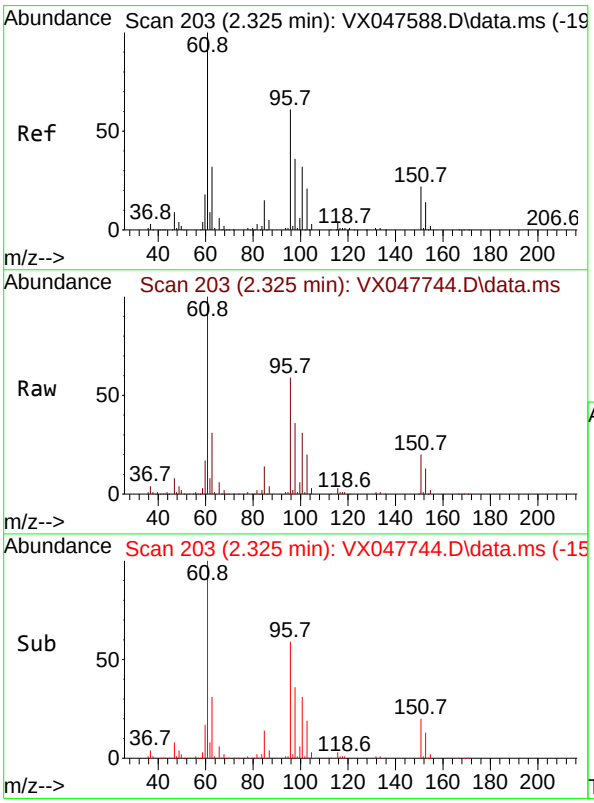
#11
Tert butyl alcohol
Concen: 231.046 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 61154

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

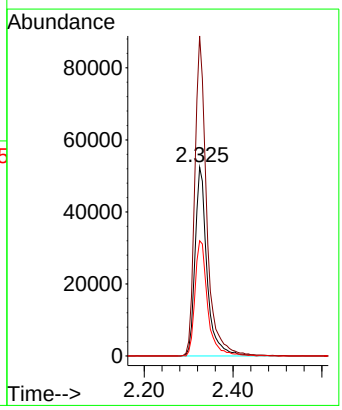


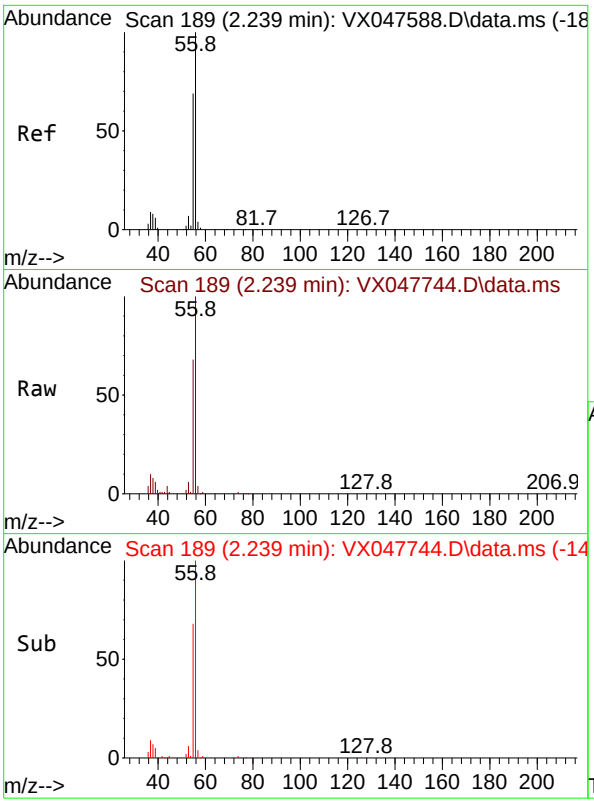


#12
1,1-Dichloroethene
Concen: 55.275 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 98052

Ion	Ratio	Lower	Upper
96	100		
61	169.5	131.0	196.6
98	61.1	47.7	71.5



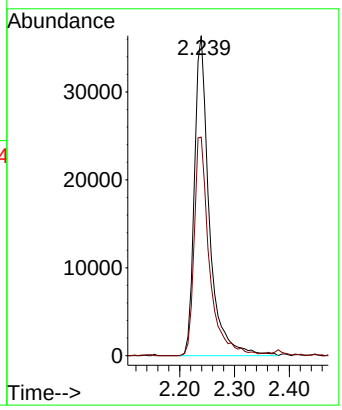


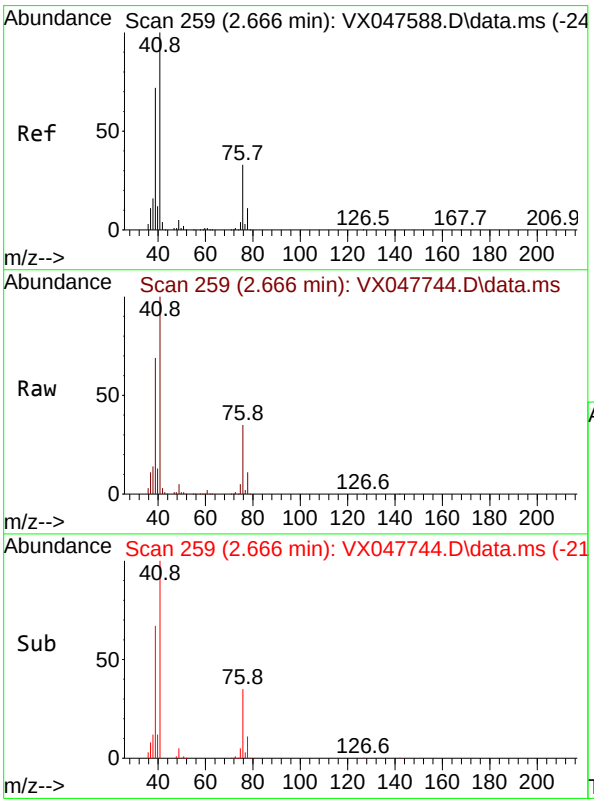
#13
Acrolein
Concen: 281.718 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 68714

Ion	Ratio	Lower	Upper
56	100		
55	69.9	57.2	85.8

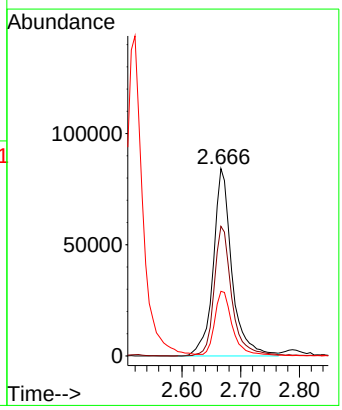


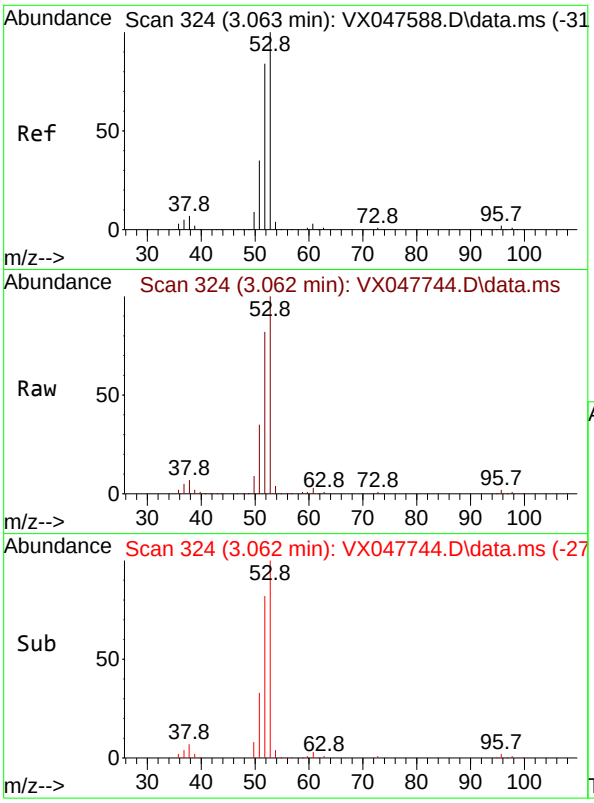


#14
Allyl chloride
Concen: 50.766 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 185829

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	33.1	25.7	38.5



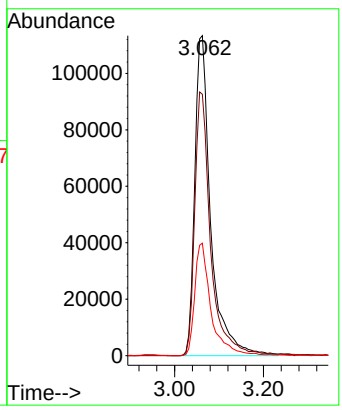


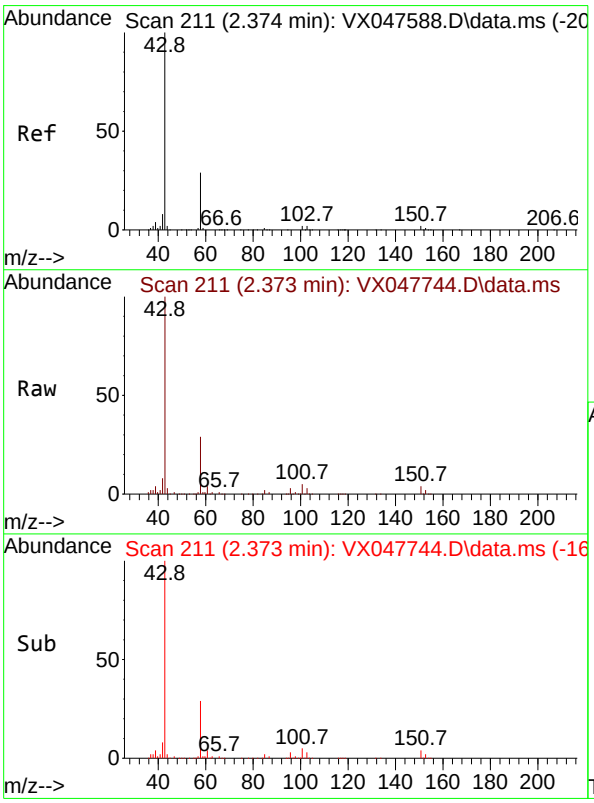
#15
Acrylonitrile
Concen: 288.375 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 282724

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	36.3	29.5	44.3

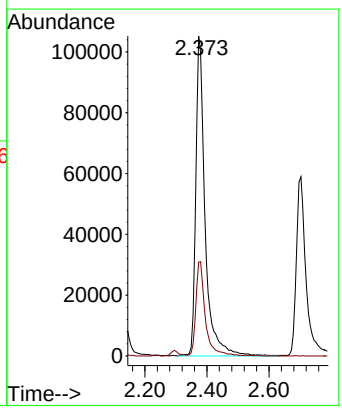


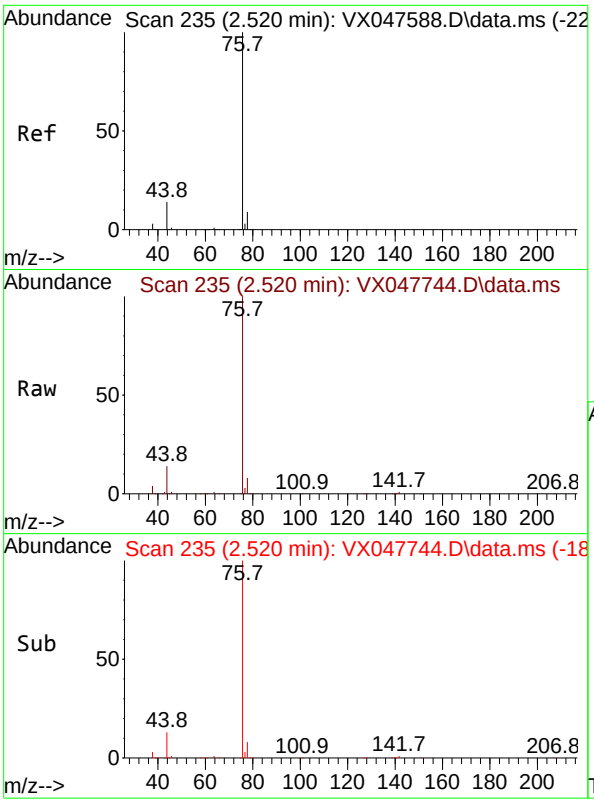


#16
Acetone
Concen: 212.978 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 220076

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0



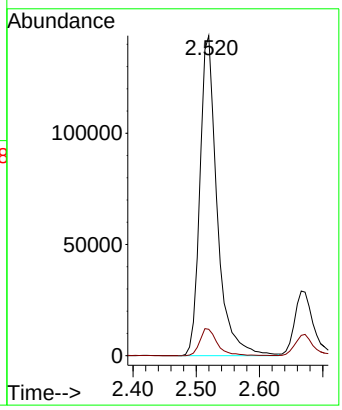


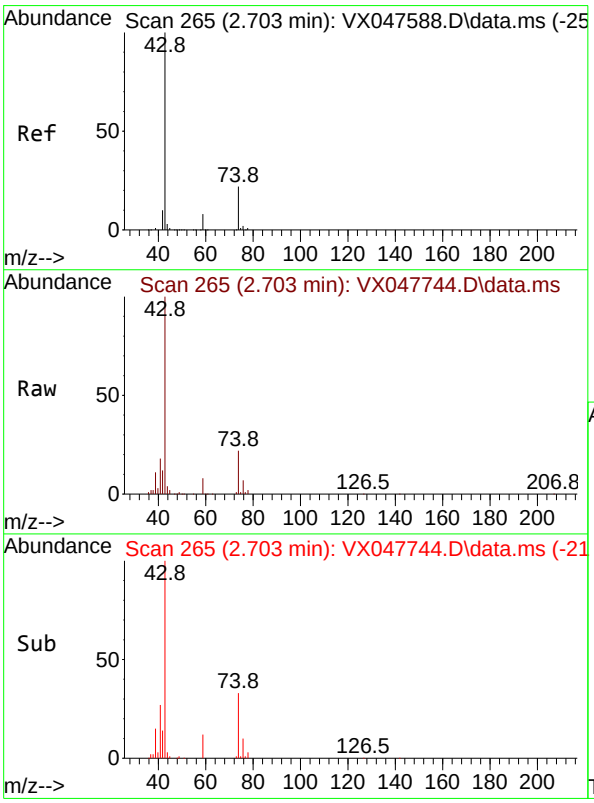
#17
Carbon Disulfide
Concen: 56.202 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 272927

Ion	Ratio	Lower	Upper
76	100		
78	8.3	6.8	10.2

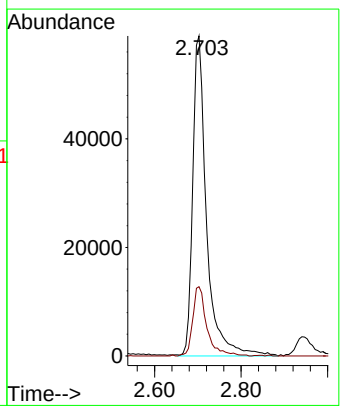


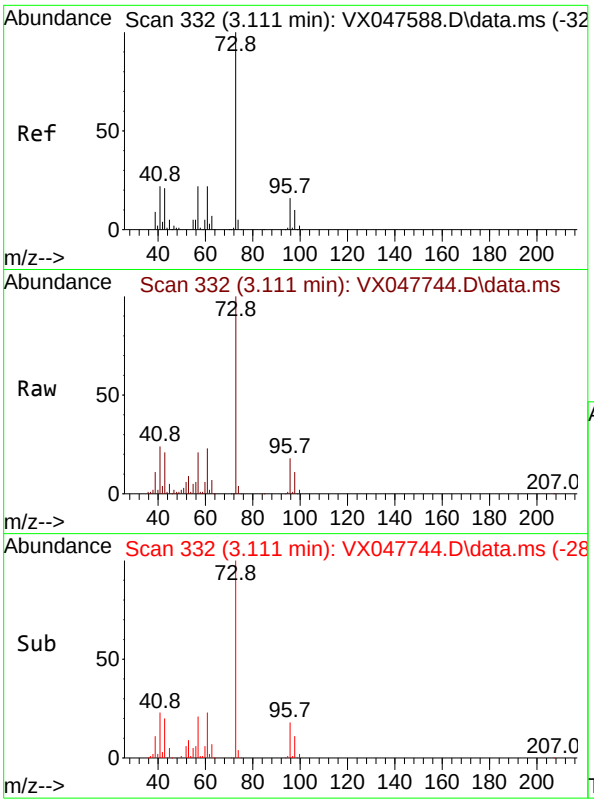


#18
Methyl Acetate
Concen: 56.883 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 130811

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



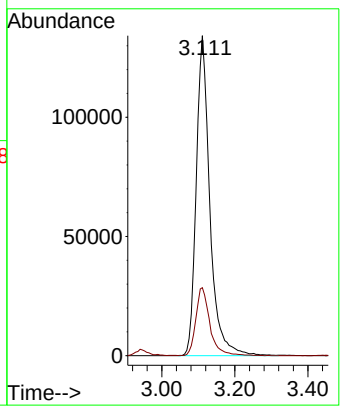


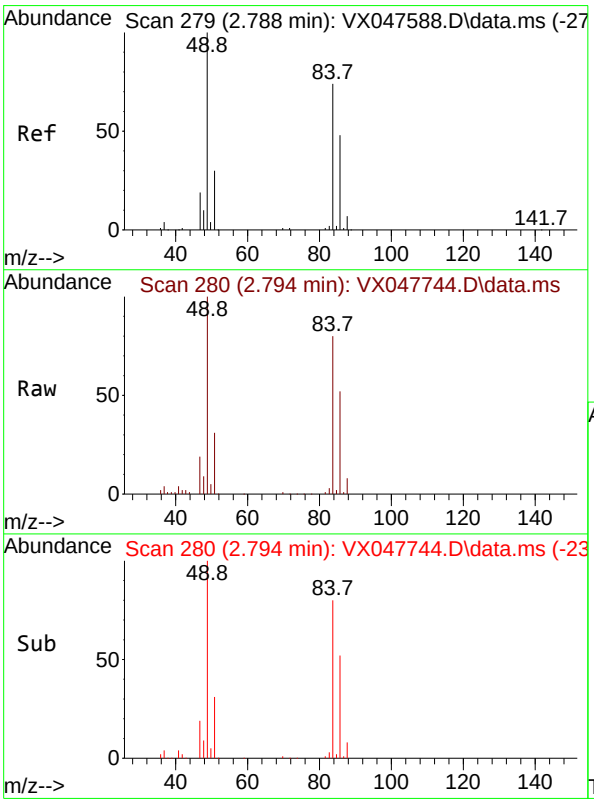
#19
Methyl tert-butyl Ether
Concen: 53.896 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 349001

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.4	26.2

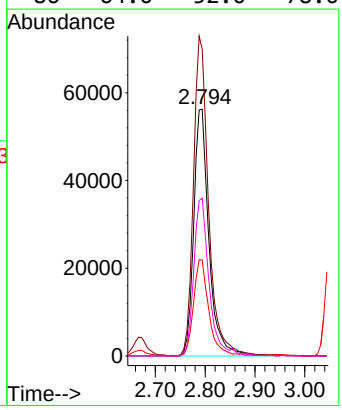


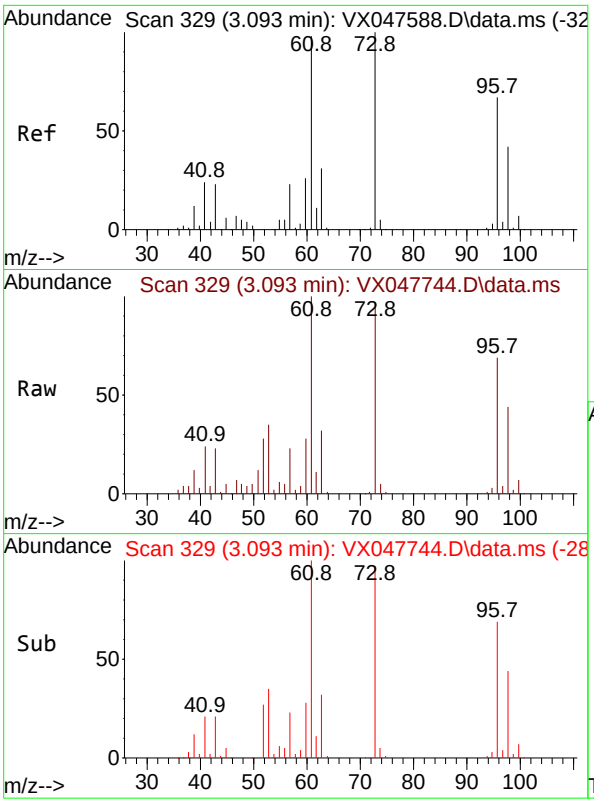


#20
Methylene Chloride
Concen: 54.405 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 84 Resp: 119000

Ion	Ratio	Lower	Upper
84	100		
49	124.1	108.6	162.8
51	38.9	32.6	48.8
86	64.0	52.0	78.0



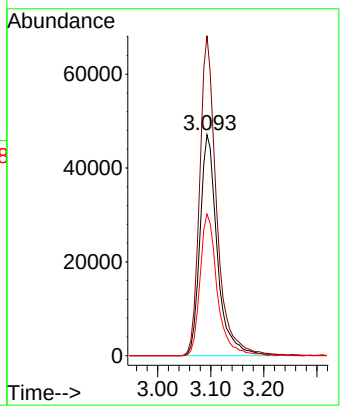


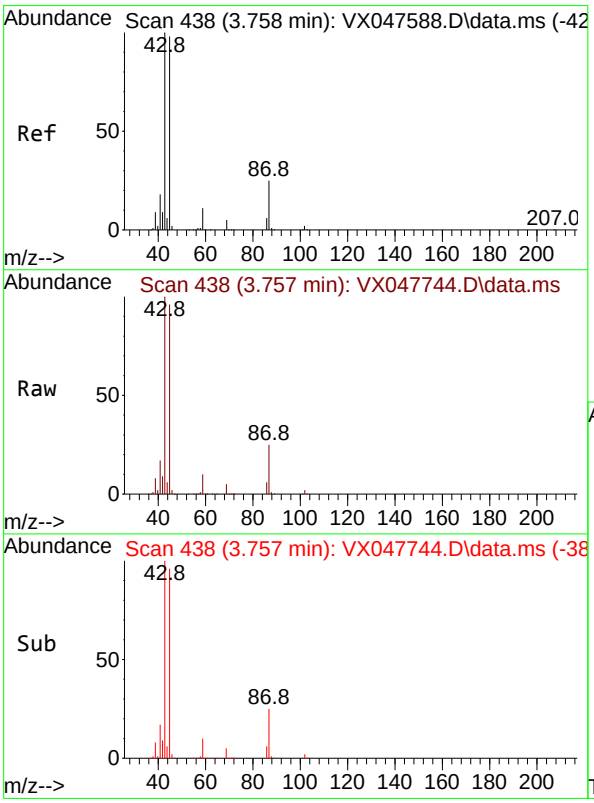
#21
trans-1,2-Dichloroethene
Concen: 55.907 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 106771

Ion	Ratio	Lower	Upper
96	100		
61	144.8	116.2	174.2
98	64.1	49.3	73.9

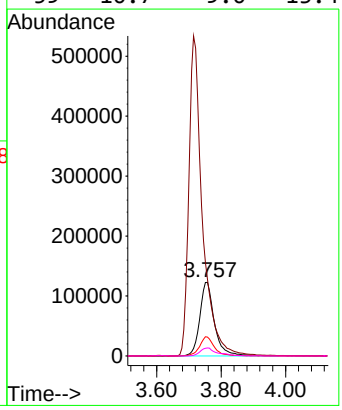


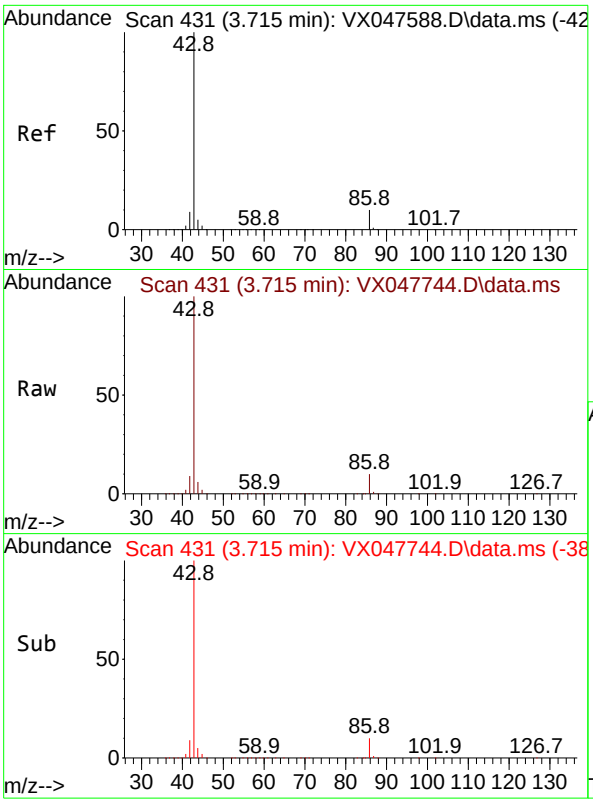


#22
Diisopropyl ether
Concen: 54.502 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 45 Resp: 386641

Ion	Ratio	Lower	Upper
45	100		
43	103.5	81.0	121.4
87	25.6	20.3	30.5
59	10.7	9.0	13.4



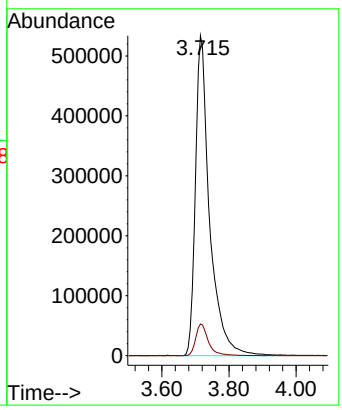


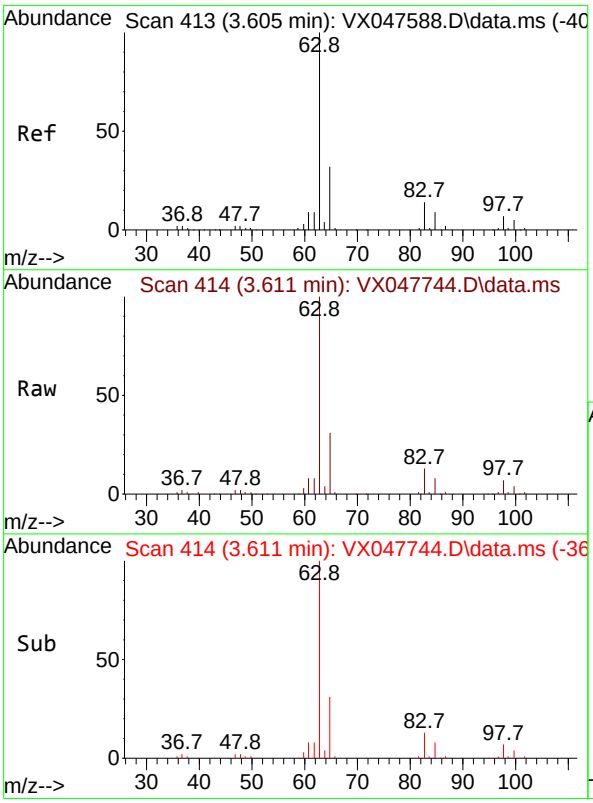
#23
Vinyl Acetate
Concen: 275.867 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1566296

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

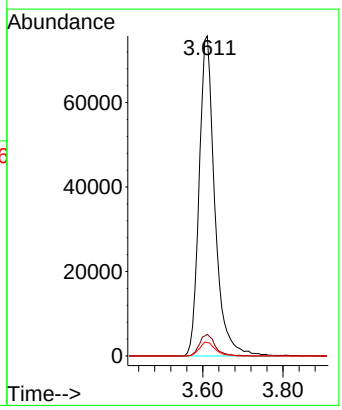


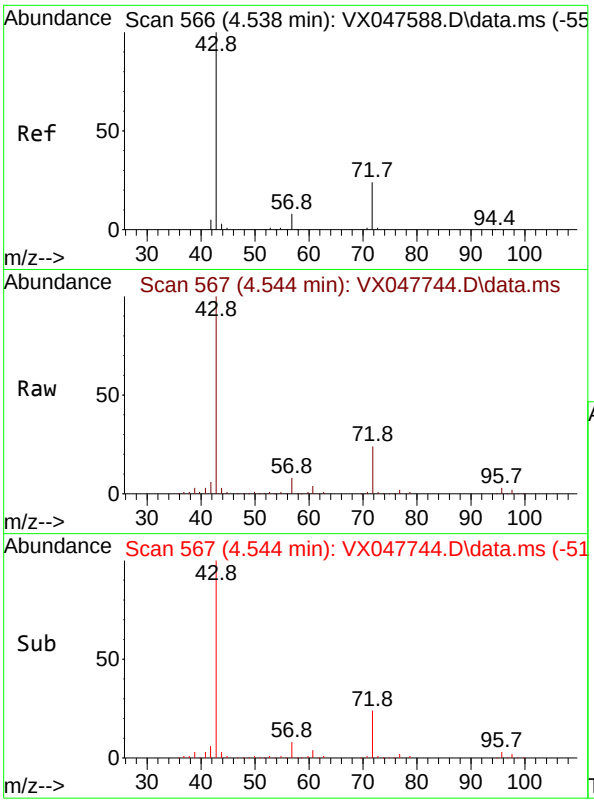


#24
1,1-Dichloroethane
Concen: 54.500 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 205496

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.2	2.3	6.9



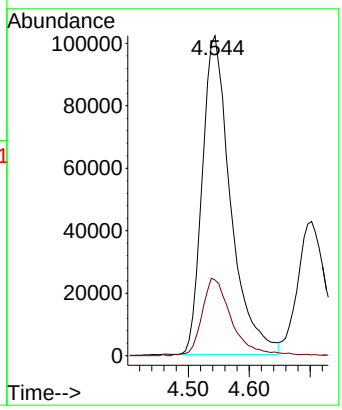


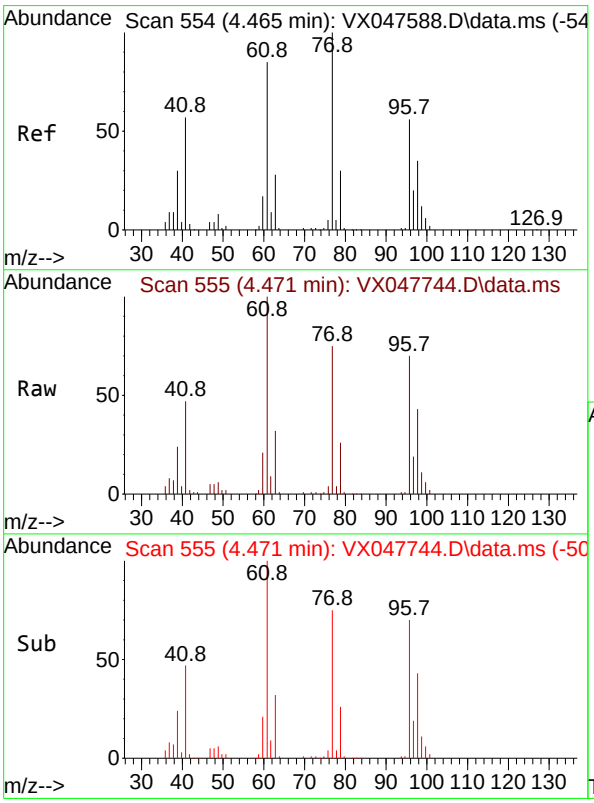
#25
2-Butanone
Concen: 256.128 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 330135

Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.1	30.1

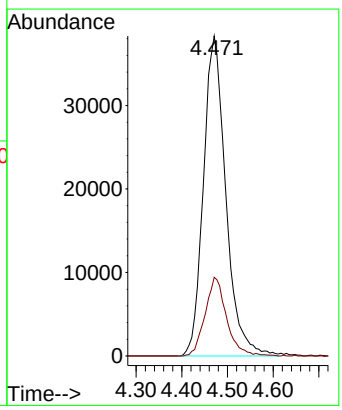


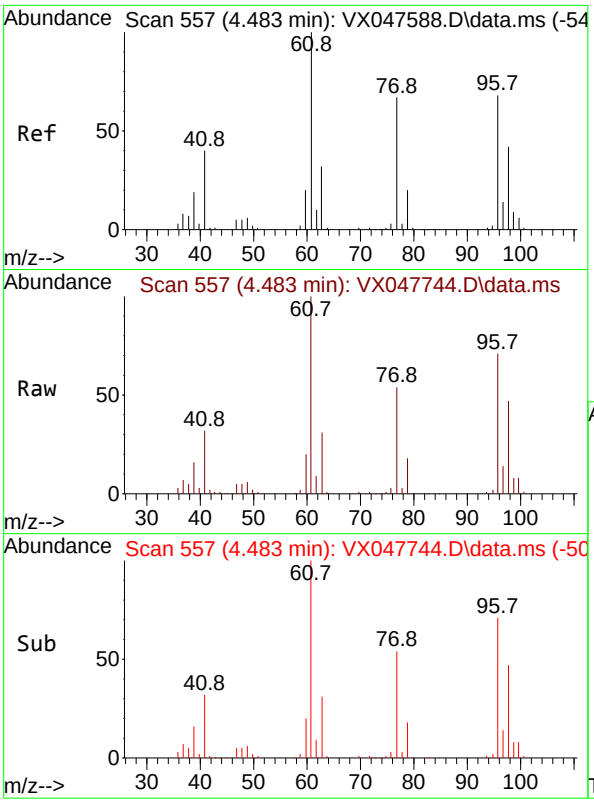


#26
2,2-Dichloropropane
Concen: 41.645 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 77 Resp: 130530

Ion	Ratio	Lower	Upper
77	100		
97	23.5	10.9	32.7



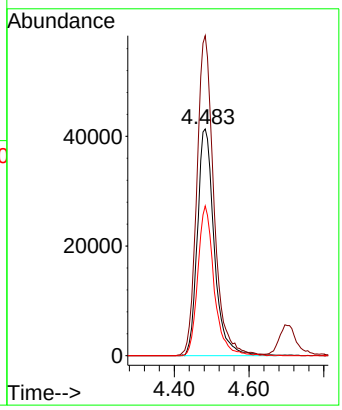


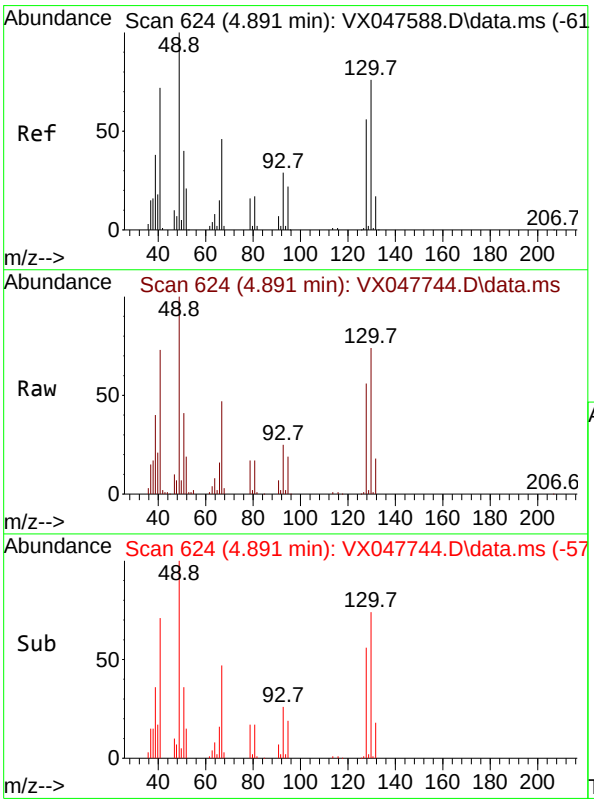
#27
cis-1,2-Dichloroethene
Concen: 55.058 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 128773

Ion	Ratio	Lower	Upper
96	100		
61	143.3	0.0	303.2
98	64.2	0.0	127.8

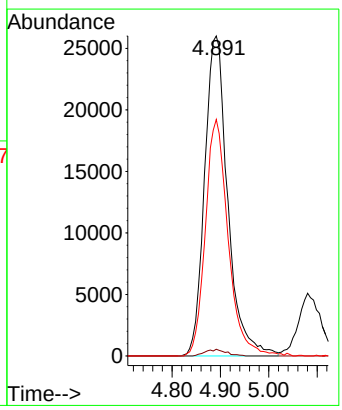


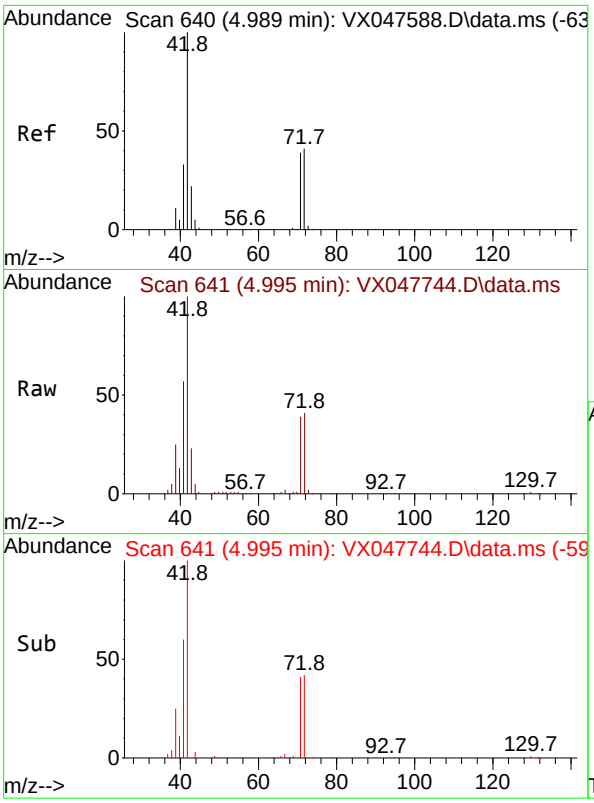


#28
Bromochloromethane
Concen: 52.489 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 49 Resp: 86403

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8



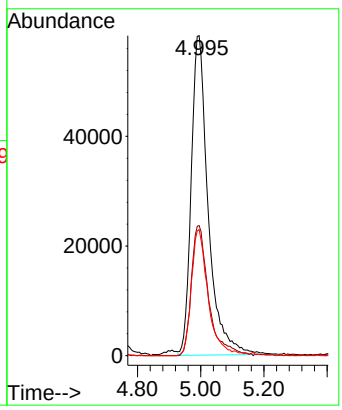


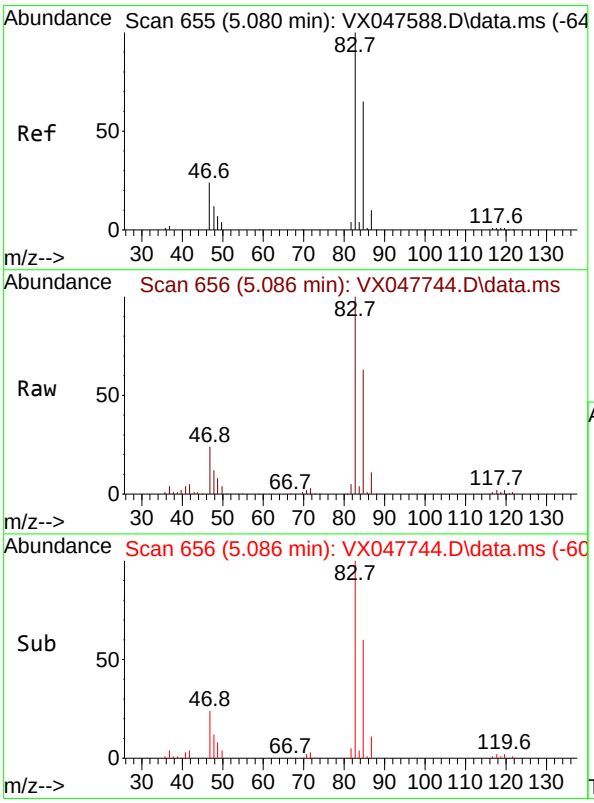
#29
Tetrahydrofuran
Concen: 281.124 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 217984

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	39.0	31.9	47.9

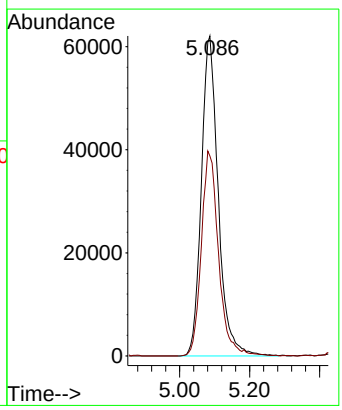


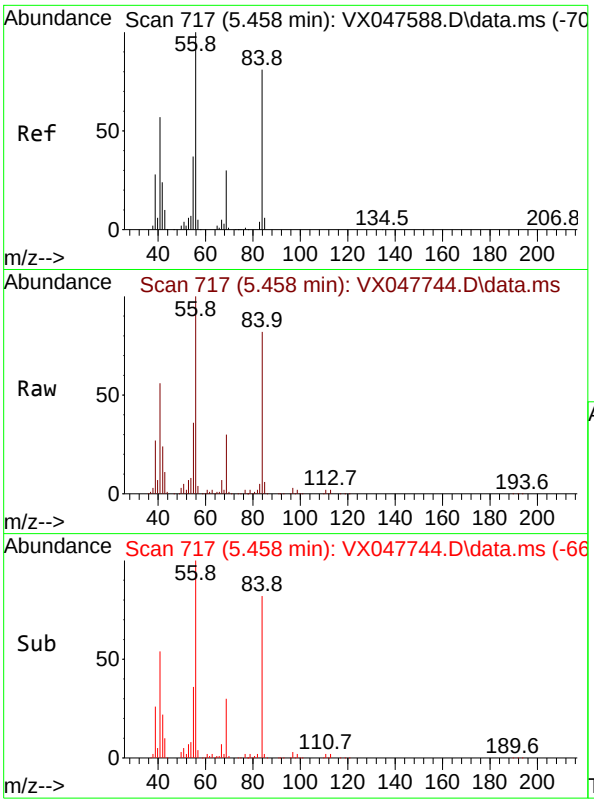


#30
Chloroform
Concen: 54.504 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 207673

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.6



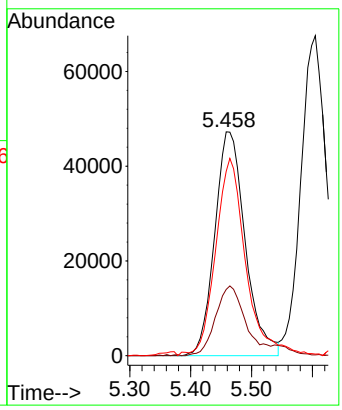


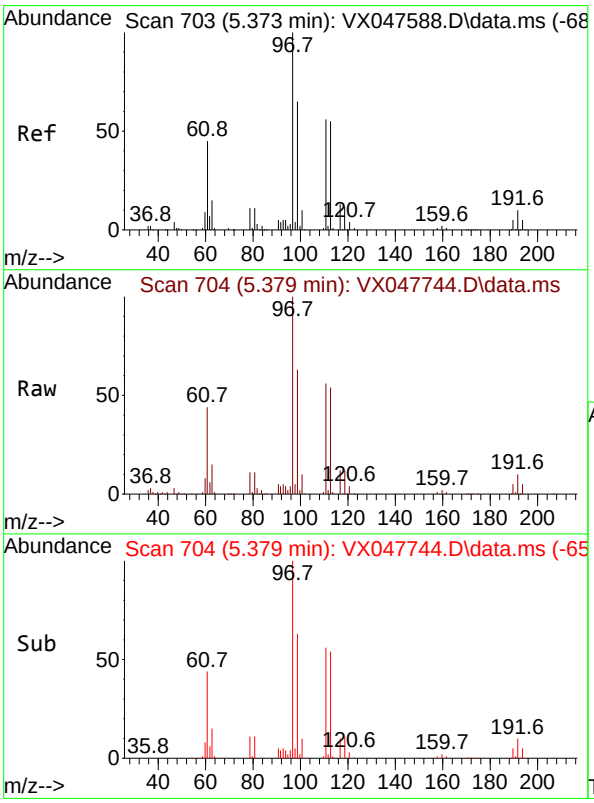
#31
Cyclohexane
Concen: 52.311 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 164278

Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.8	35.8
84	82.3	64.6	97.0

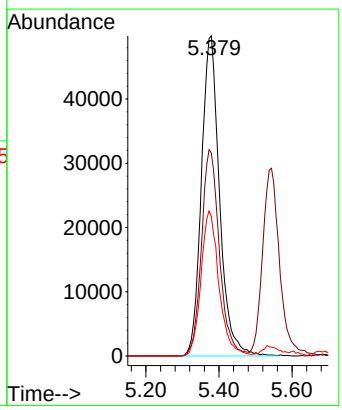


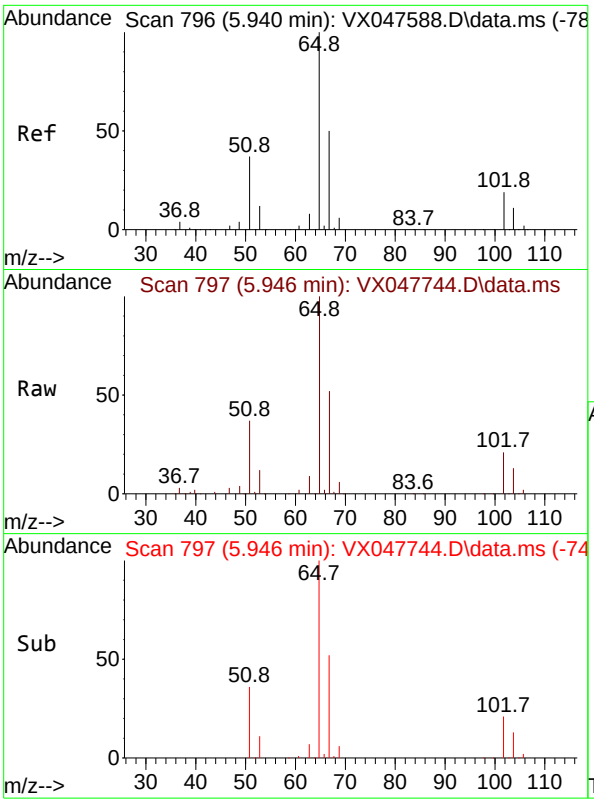


#32
1,1,1-Trichloroethane
Concen: 53.110 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 97 Resp: 171647

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	45.0	35.8	53.8



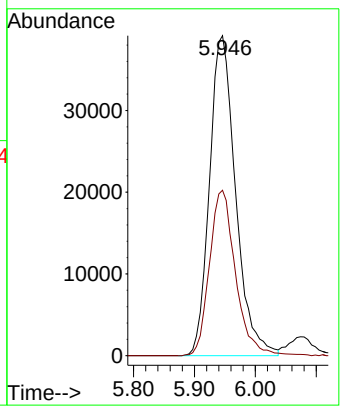


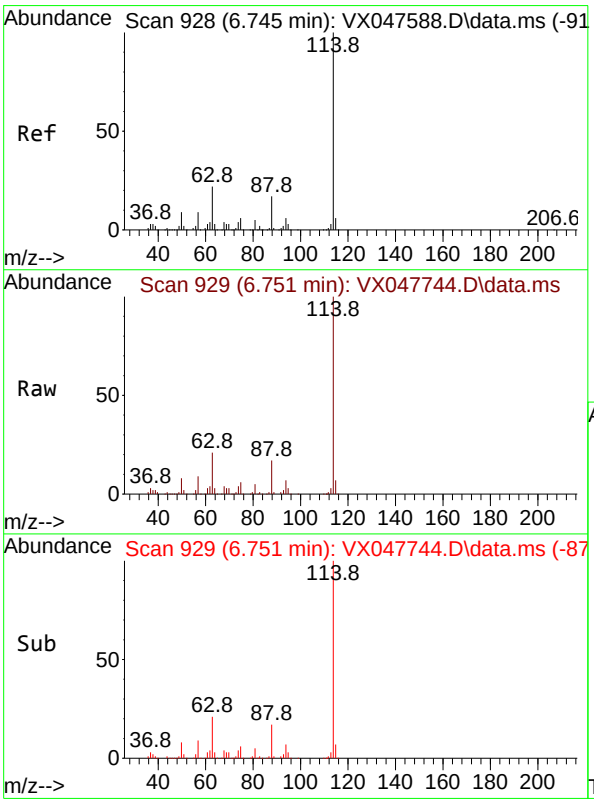
#33
1,2-Dichloroethane-d4
Concen: 49.065 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 116606

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.0

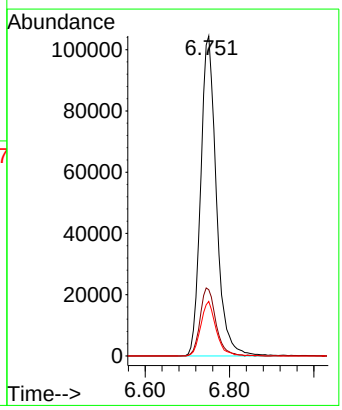


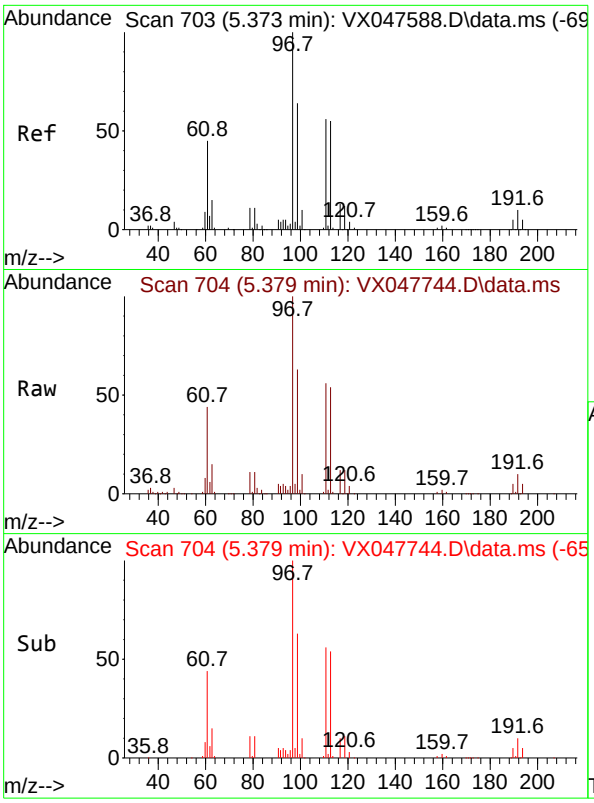


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:114 Resp: 270355

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	17.1	0.0	34.2



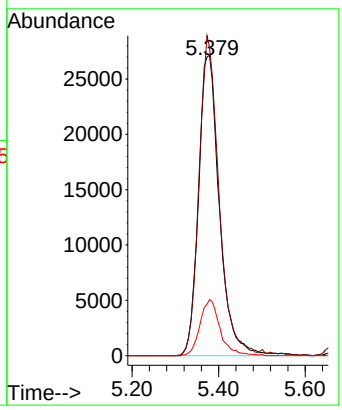


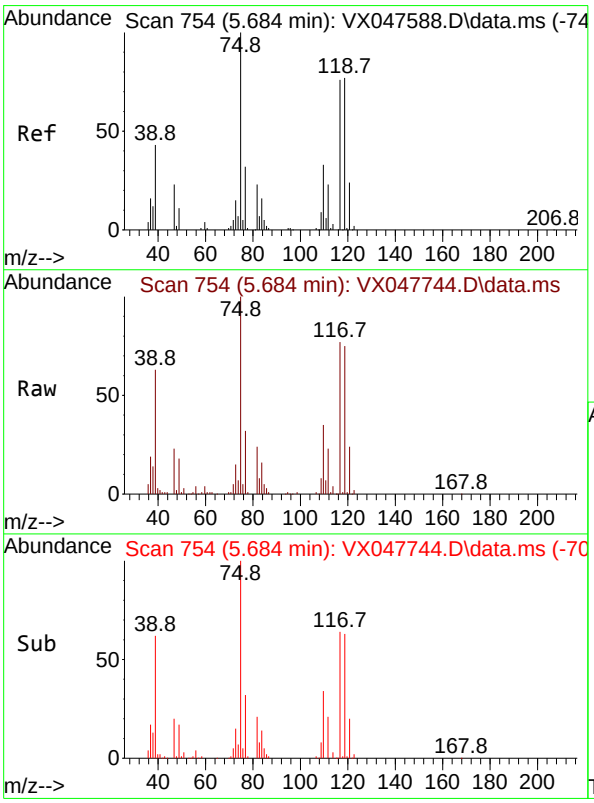
#35
Dibromofluoromethane
Concen: 50.112 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 90861

Ion	Ratio	Lower	Upper
113	100		
111	101.7	80.9	121.3
192	18.0	14.2	21.4

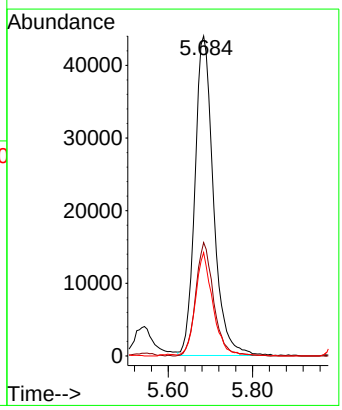


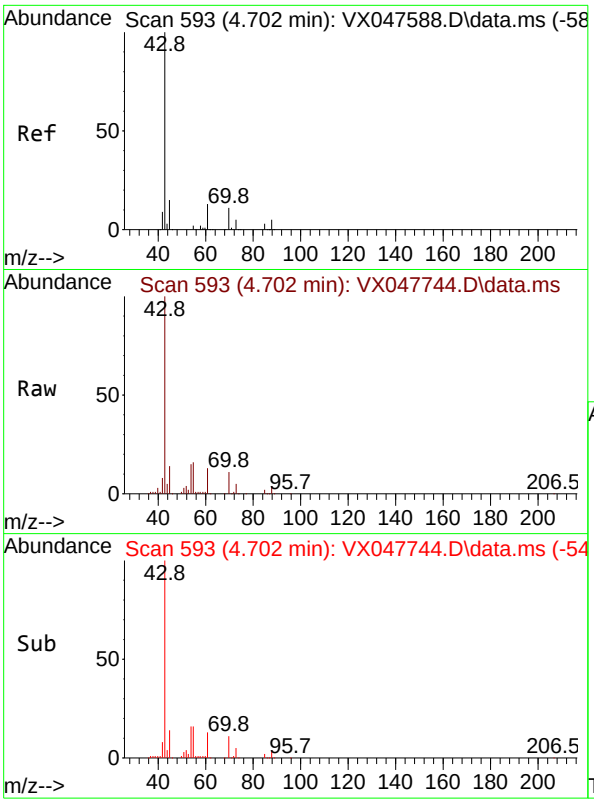


#36
1,1-Dichloropropene
Concen: 50.792 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 134570

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5



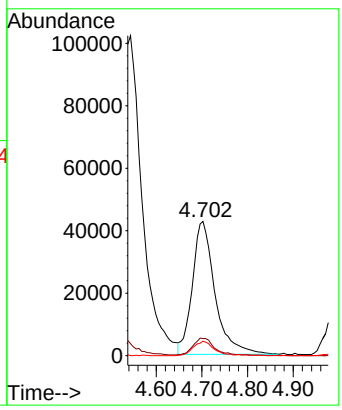


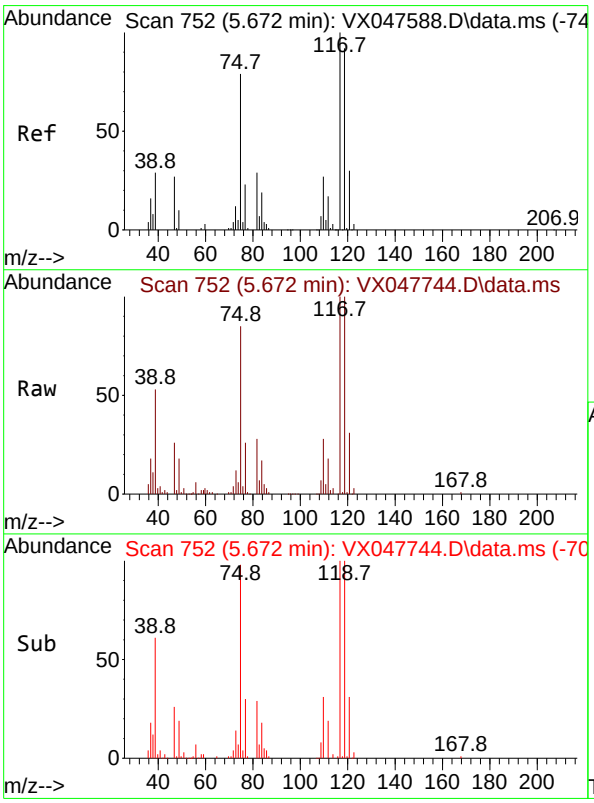
#37
Ethyl Acetate
Concen: 51.600 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 146380

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.7	7.9	11.9

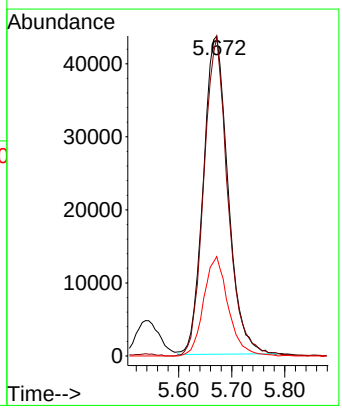


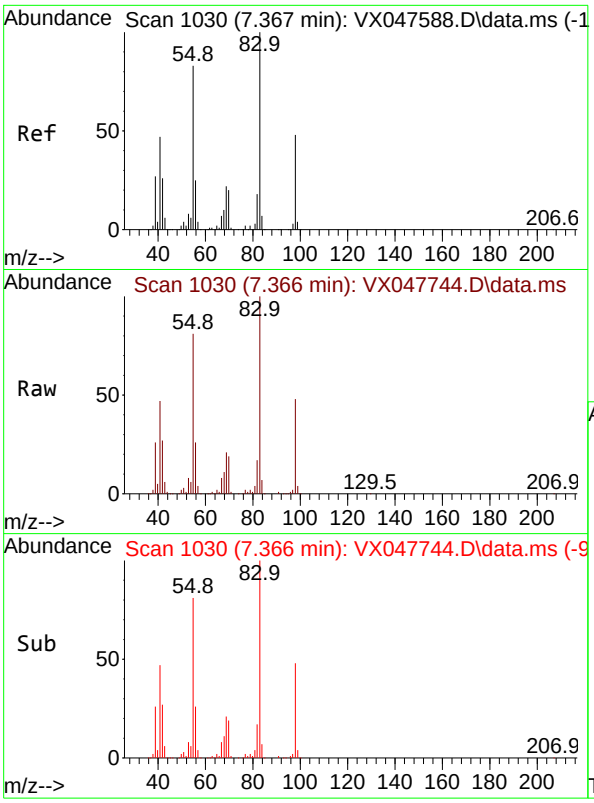


#38
Carbon Tetrachloride
Concen: 49.026 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 141128

Ion	Ratio	Lower	Upper
117	100		
119	100.0	73.4	110.2
121	31.2	23.8	35.6



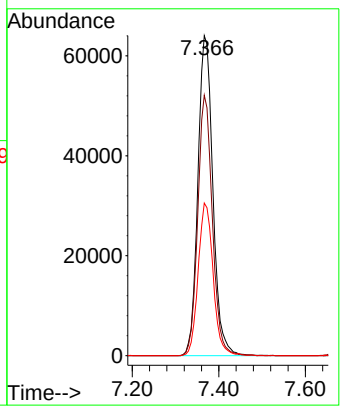


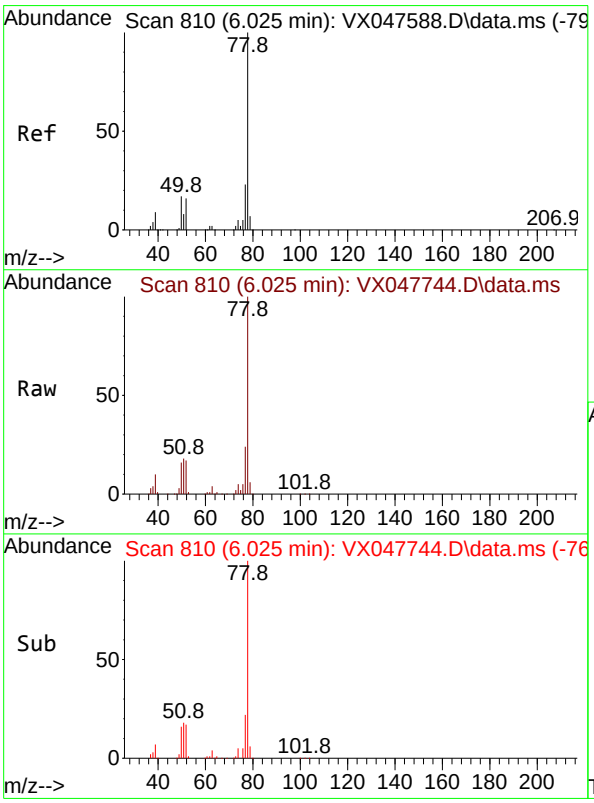
#39
Methylcyclohexane
Concen: 51.142 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 153808

Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	47.7	38.1	57.1

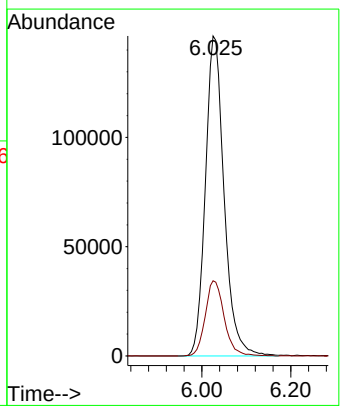


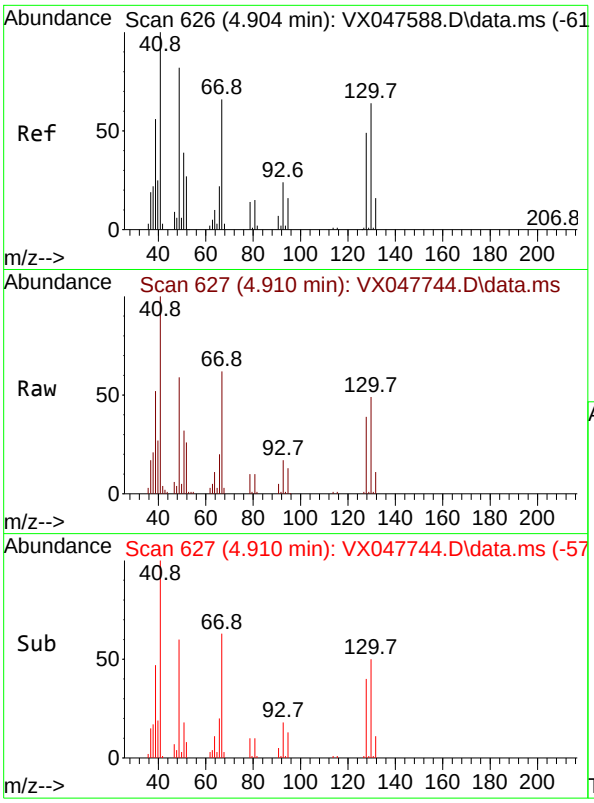


#40
Benzene
Concen: 53.282 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 78 Resp: 428760

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



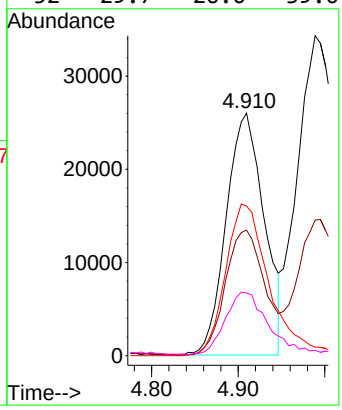


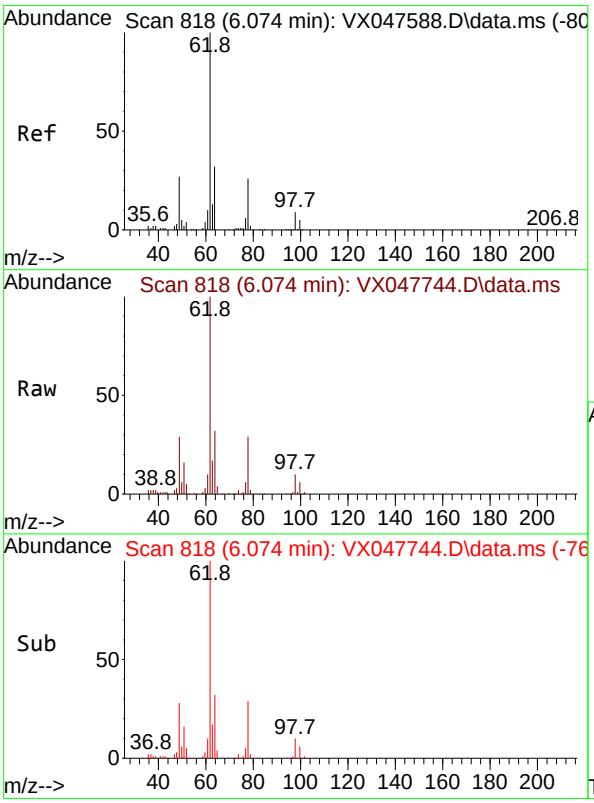
#41
Methacrylonitrile
Concen: 54.104 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 79236

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	71.6	58.6	87.8
52	29.7	26.0	39.0

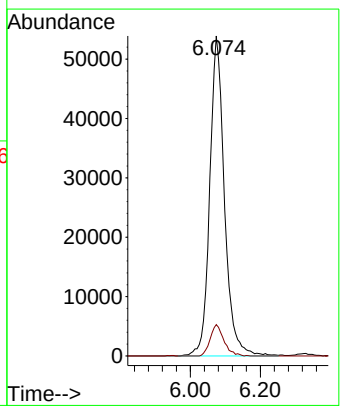


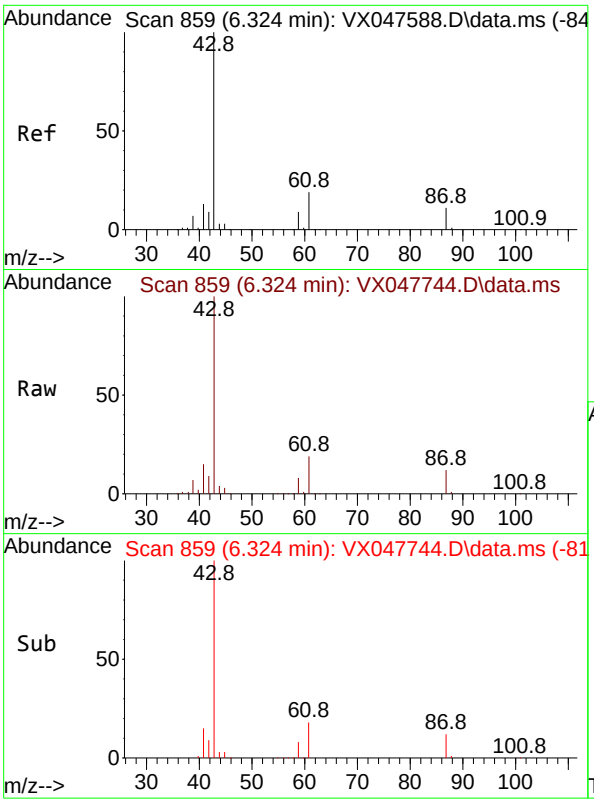


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 157471

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0



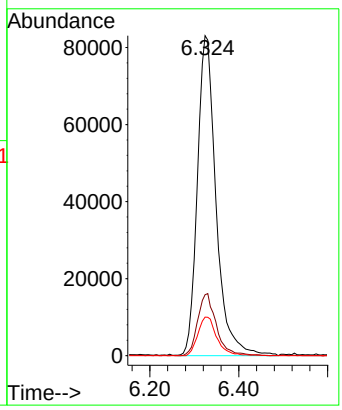


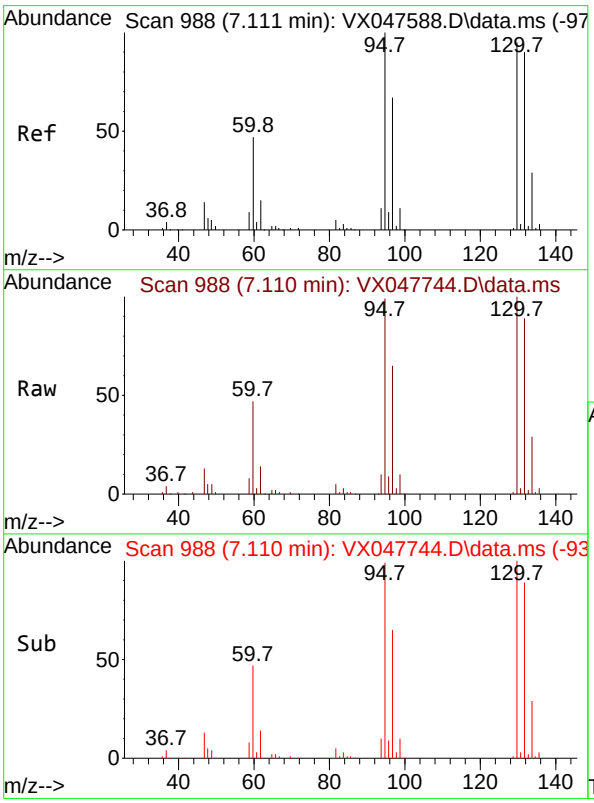
#43
Isopropyl Acetate
Concen: 52.327 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 243453

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.2	9.6	14.4

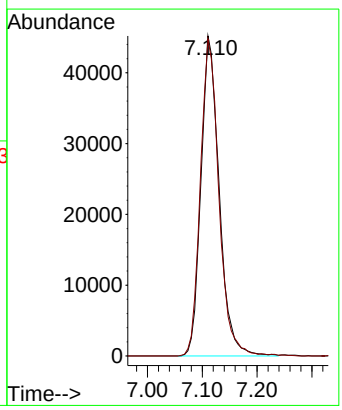


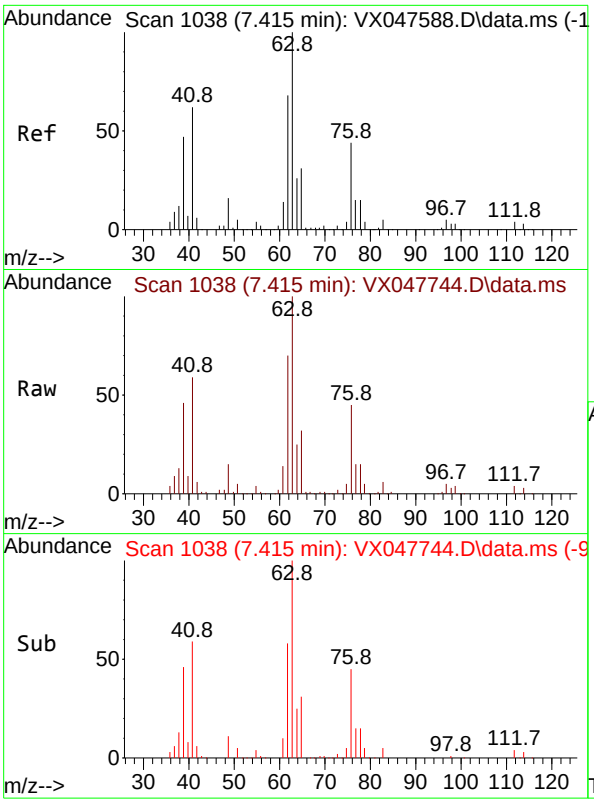


#44
Trichloroethene
Concen: 53.576 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:130 Resp: 104230

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	210.8



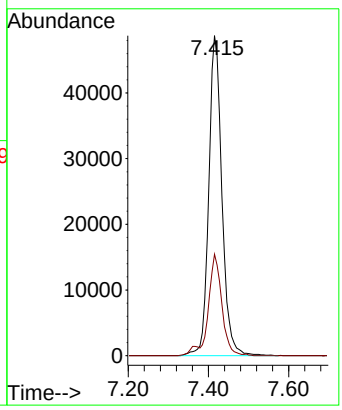


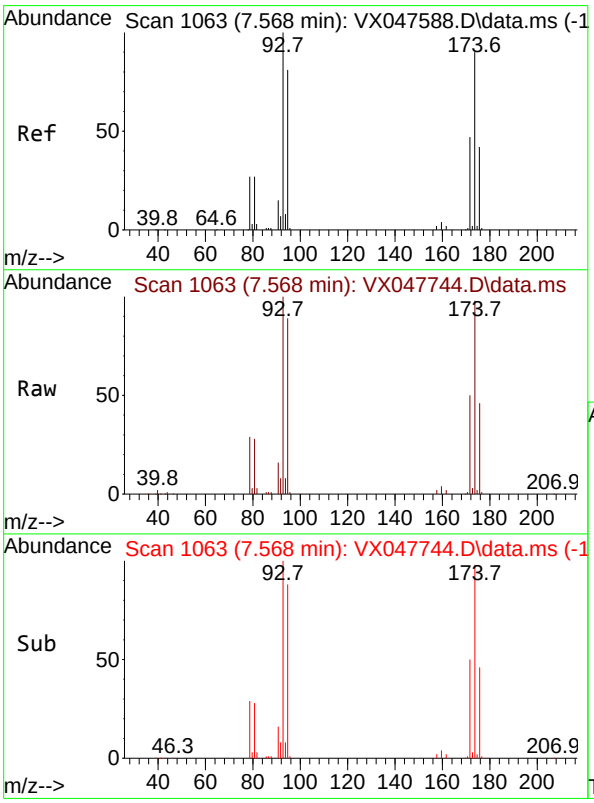
#45
1,2-Dichloropropane
Concen: 53.818 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 110894

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.7	37.1

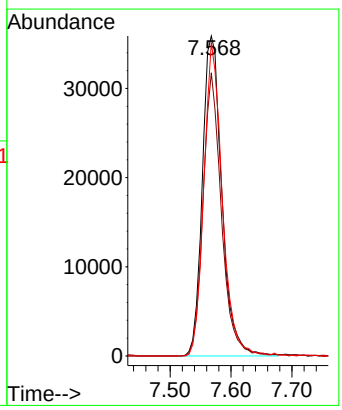


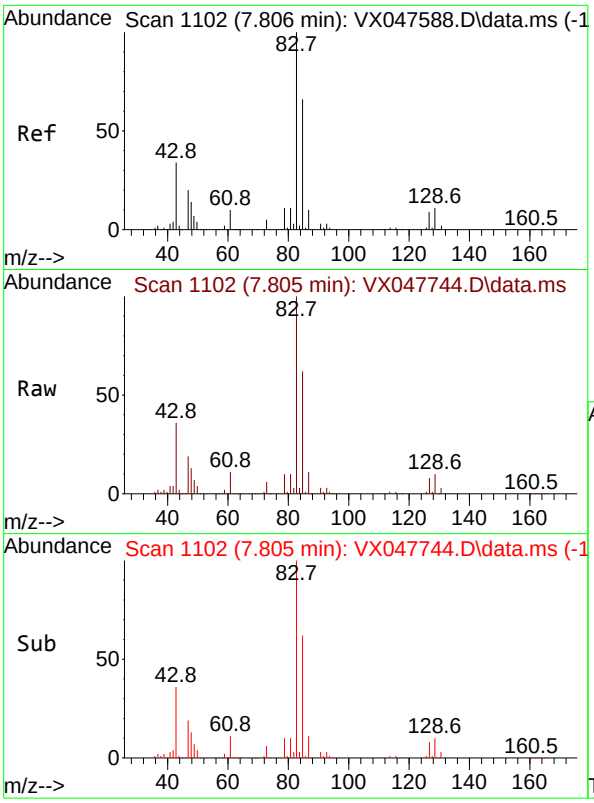


#46
Dibromomethane
Concen: 53.104 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 93 Resp: 79627

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.0	97.6
174	92.5	71.6	107.4



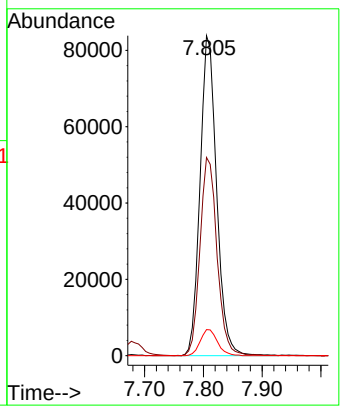


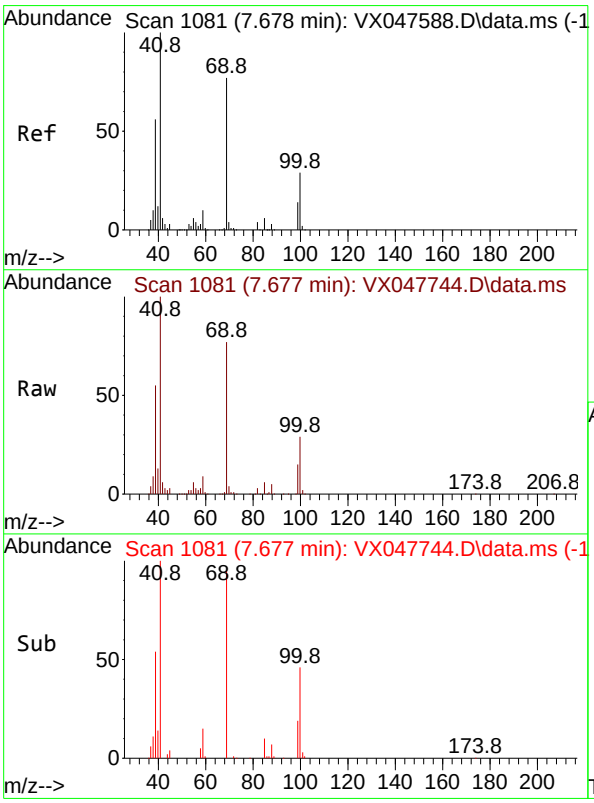
#47
Bromodichloromethane
Concen: 53.077 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 164232

Ion	Ratio	Lower	Upper
83	100		
85	61.8	52.5	78.7
127	8.1	6.9	10.3

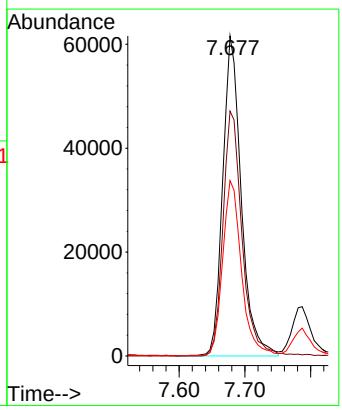


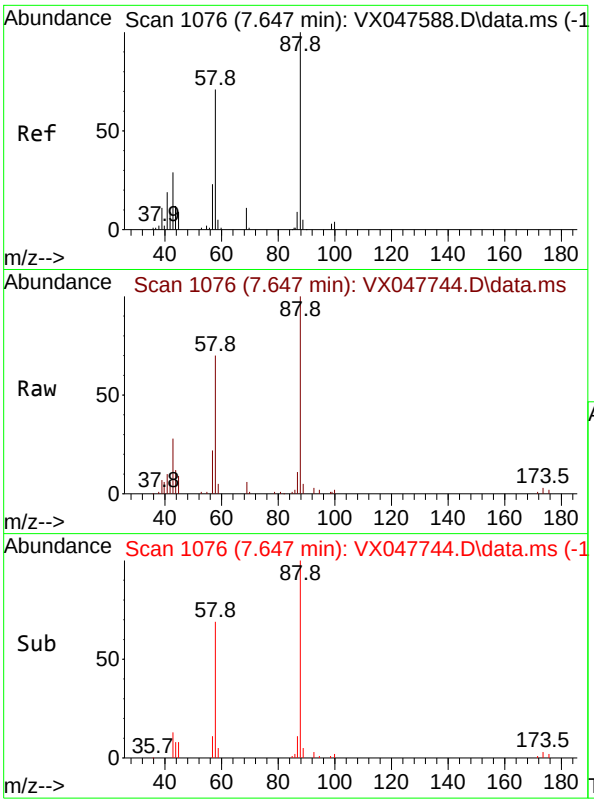


#48
Methyl methacrylate
Concen: 52.283 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 121164

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.7	45.8	68.6



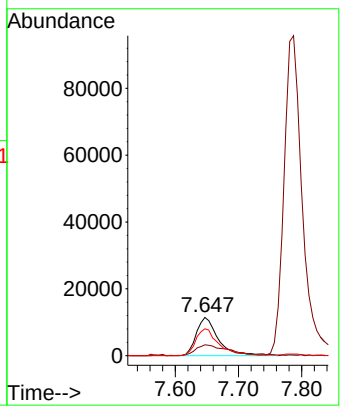


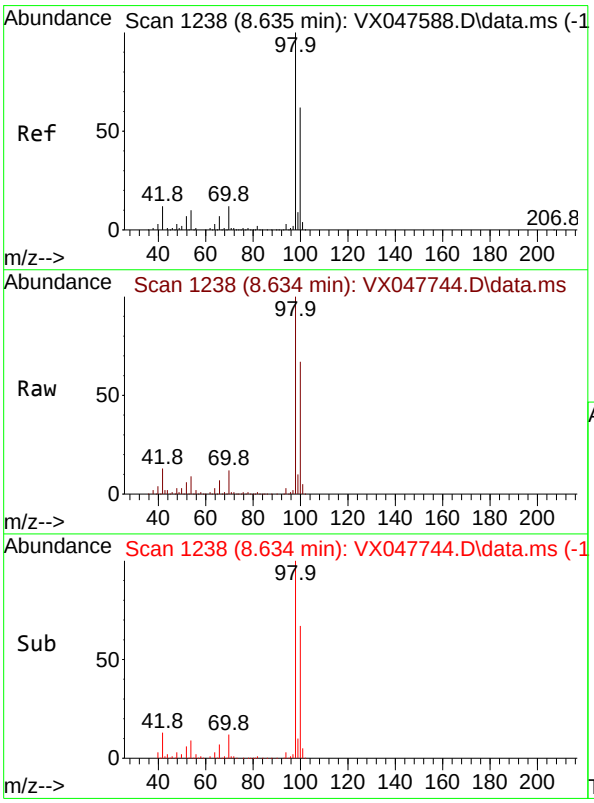
#49
1,4-Dioxane
Concen: 1196.046 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 28012

Ion	Ratio	Lower	Upper
88	100		
43	39.5	30.2	45.2
58	74.0	59.5	89.3

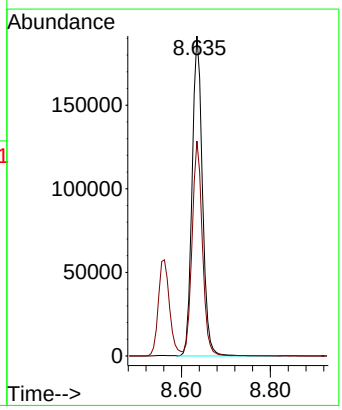


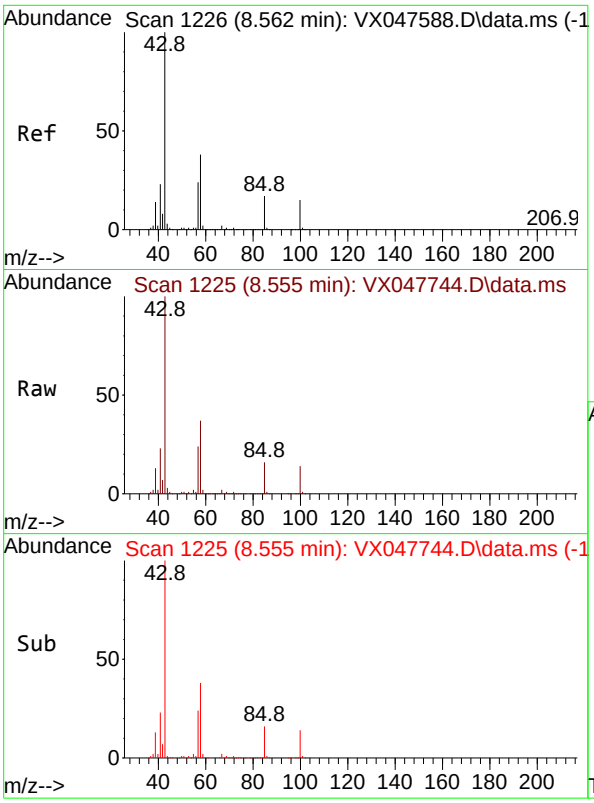


#50
Toluene-d8
Concen: 49.087 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 98 Resp: 307967

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4



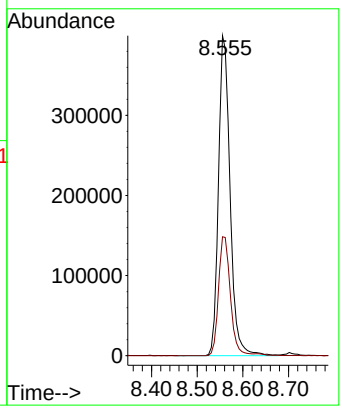


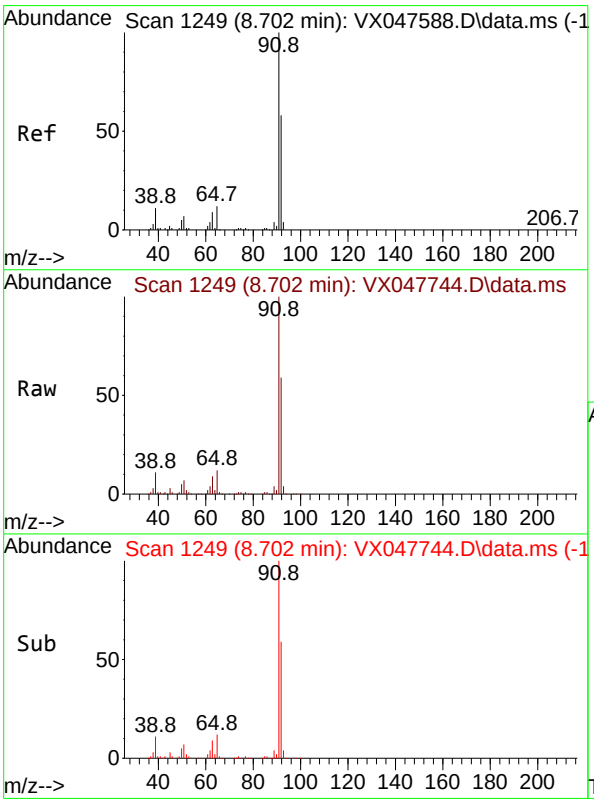
#51
4-Methyl-2-Pentanone
Concen: 272.809 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 703728

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

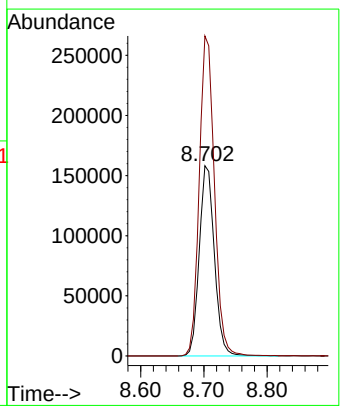


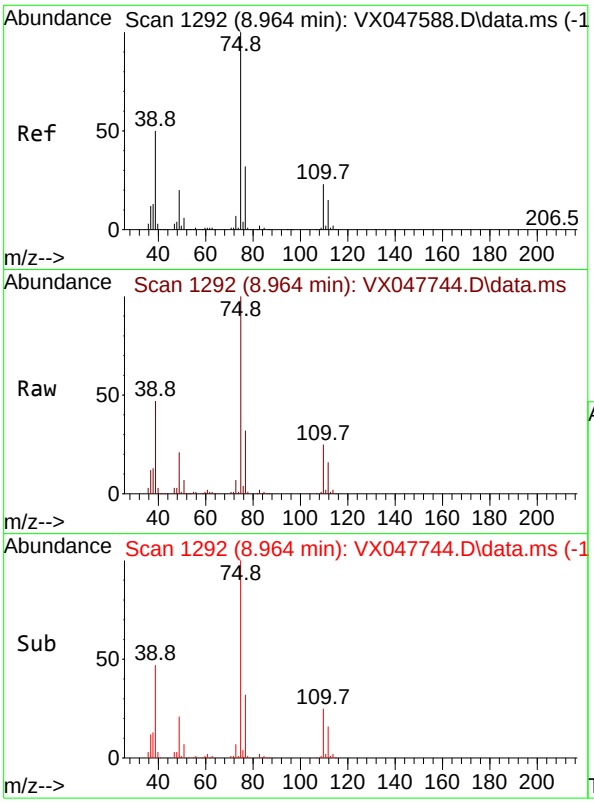


#52
Toluene
Concen: 53.113 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 92 Resp: 263320

Ion	Ratio	Lower	Upper
92	100		
91	169.0	137.1	205.7



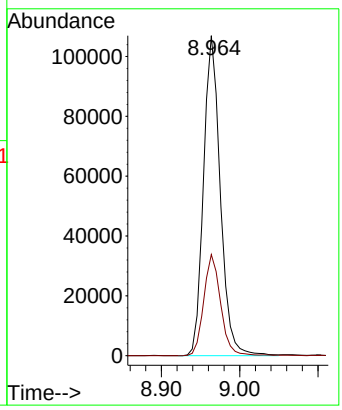


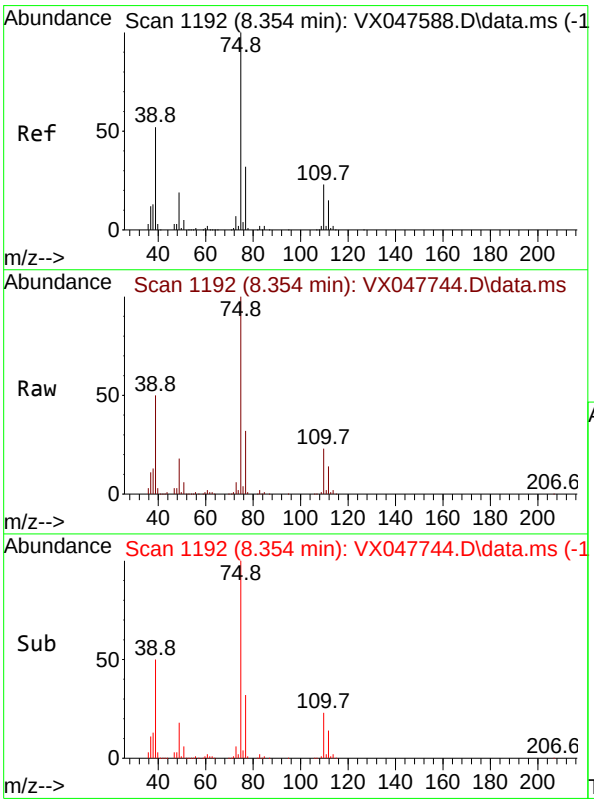
#53
t-1,3-Dichloropropene
Concen: 50.499 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 159381

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

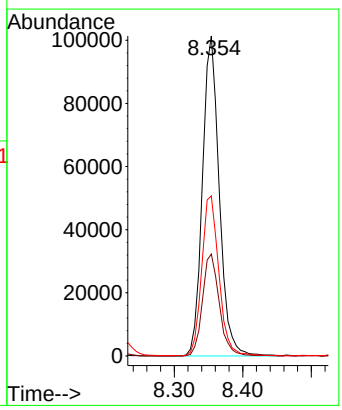


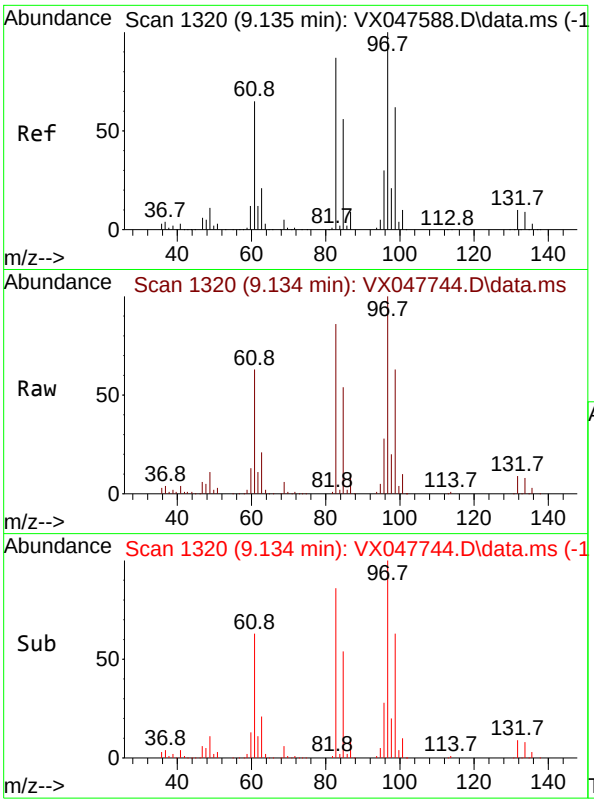


#54
cis-1,3-Dichloropropene
Concen: 51.421 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 173466

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	49.8	41.4	62.2



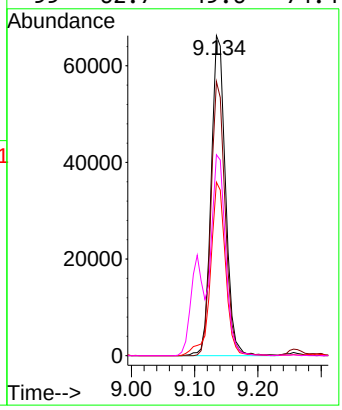


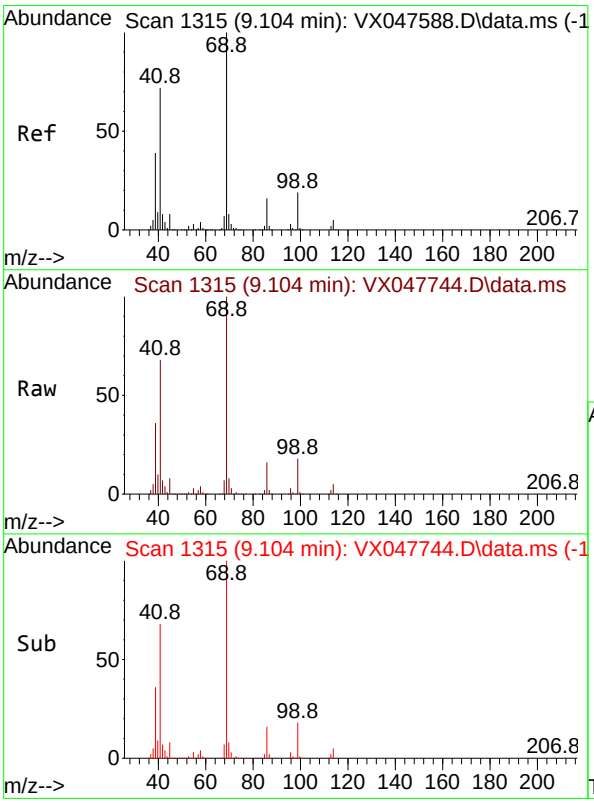
#55
1,1,2-Trichloroethane
Concen: 54.692 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 104553

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	54.2	45.0	67.6
99	62.7	49.6	74.4

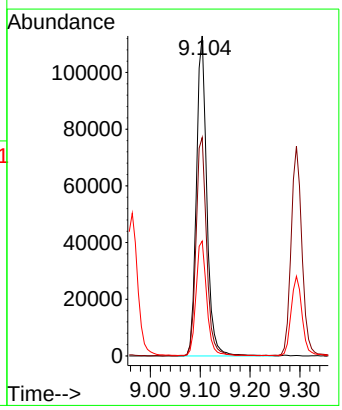


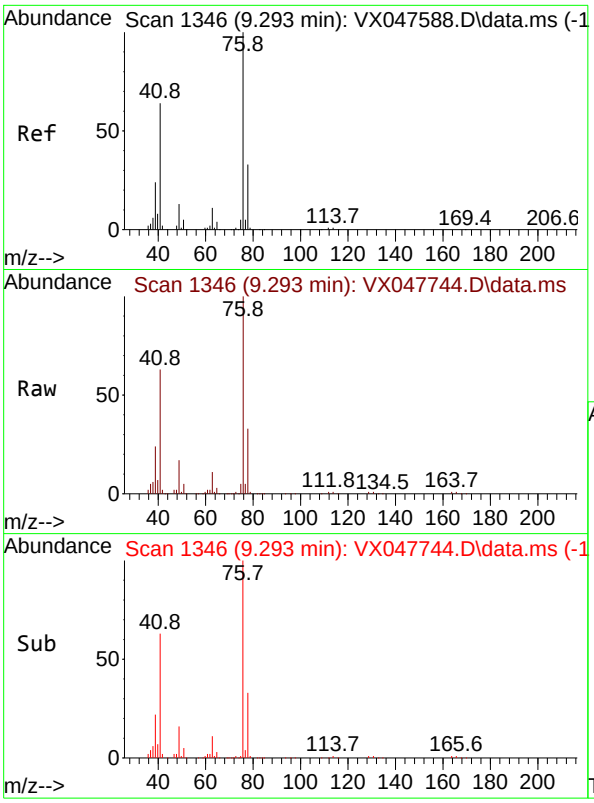


#56
Ethyl methacrylate
Concen: 54.448 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 69 Resp: 163467

Ion	Ratio	Lower	Upper
69	100		
41	69.6	58.6	87.8
39	36.6	31.5	47.3



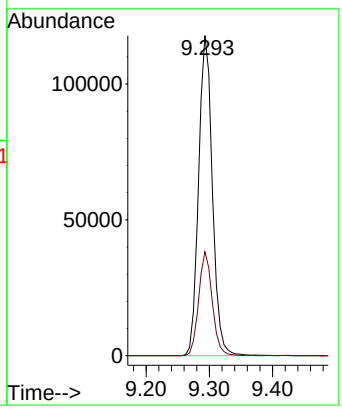


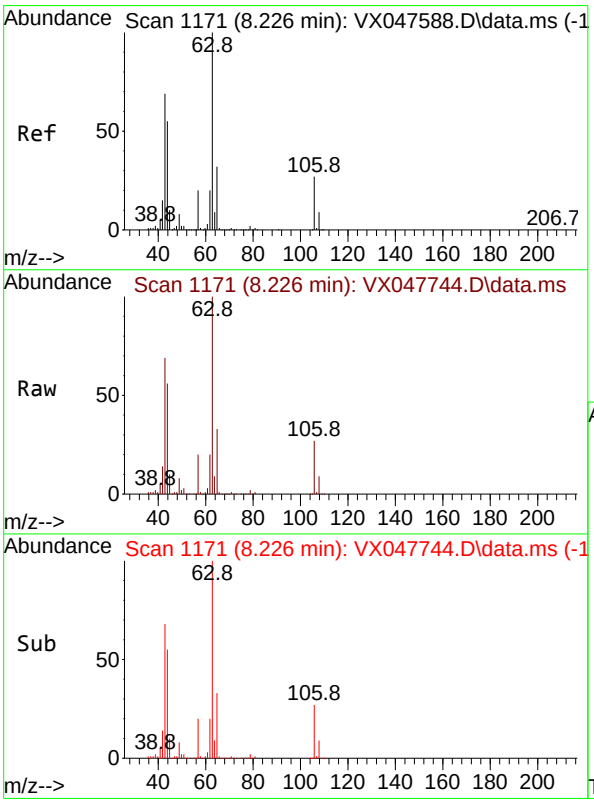
#57
1,3-Dichloropropane
Concen: 54.560 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 179171

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4

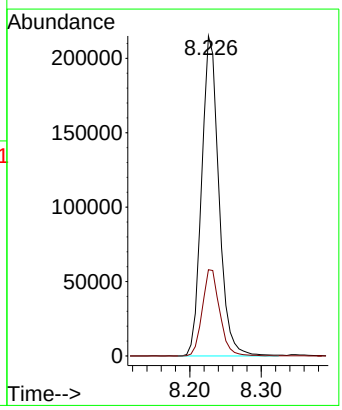


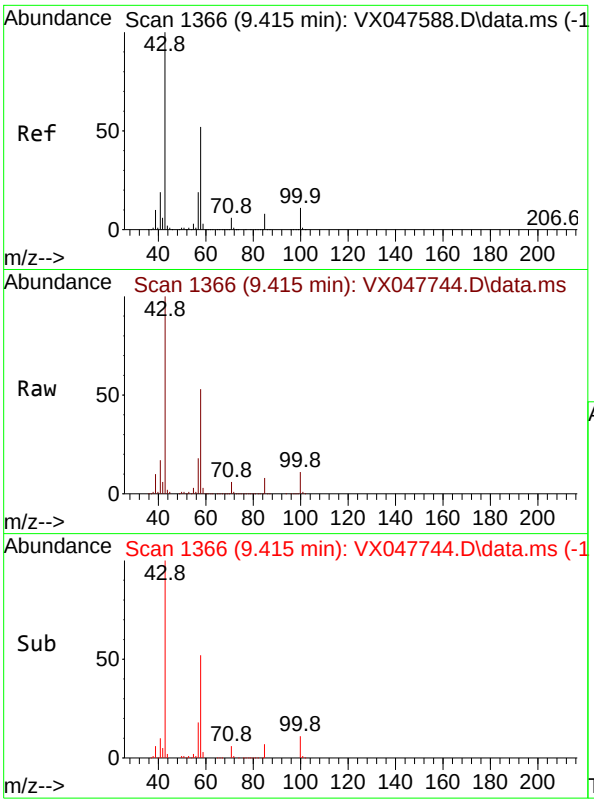


#58
2-Chloroethyl Vinyl ether
Concen: 251.172 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 360369

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9



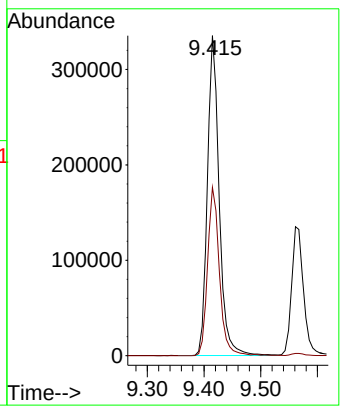


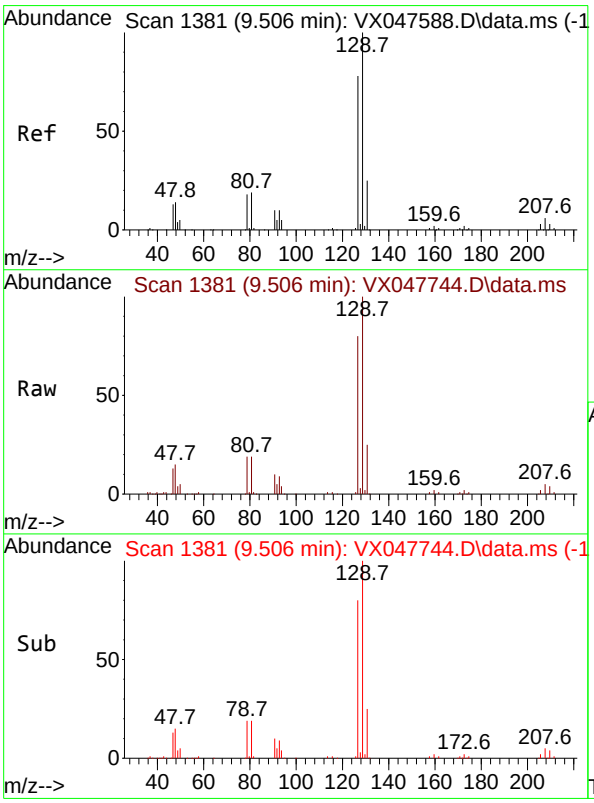
#59
2-Hexanone
Concen: 260.895 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 483347

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2

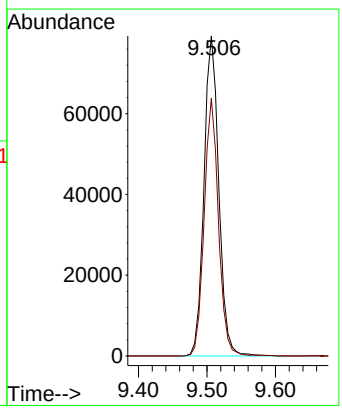


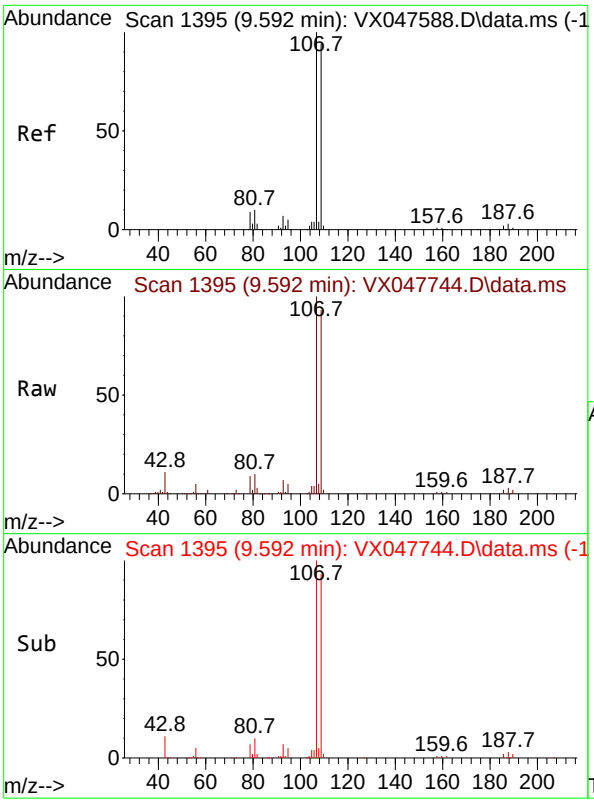


#60
Dibromochloromethane
Concen: 54.078 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:129 Resp: 119117

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.4	115.2



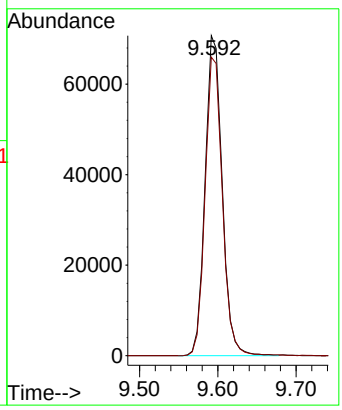


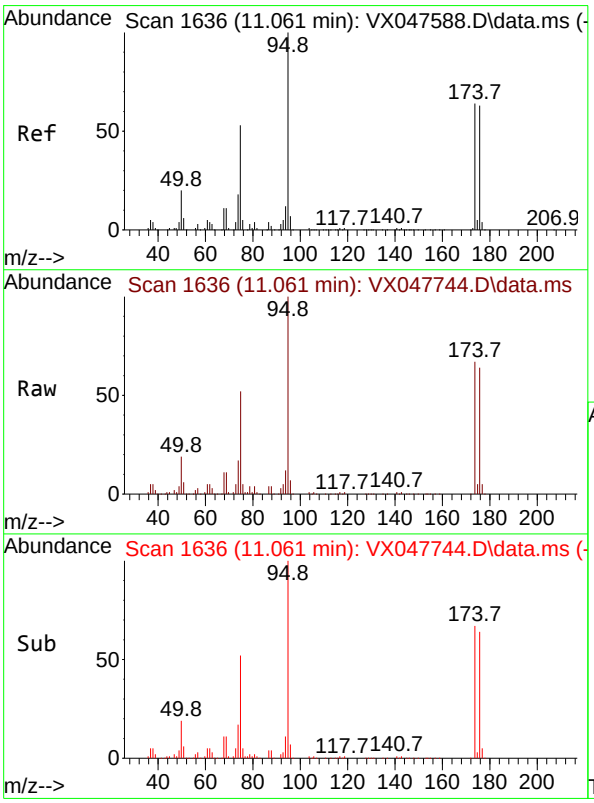
#61
1,2-Dibromoethane
Concen: 54.937 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 106971

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.3	112.9

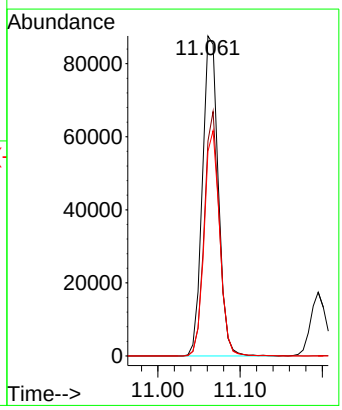


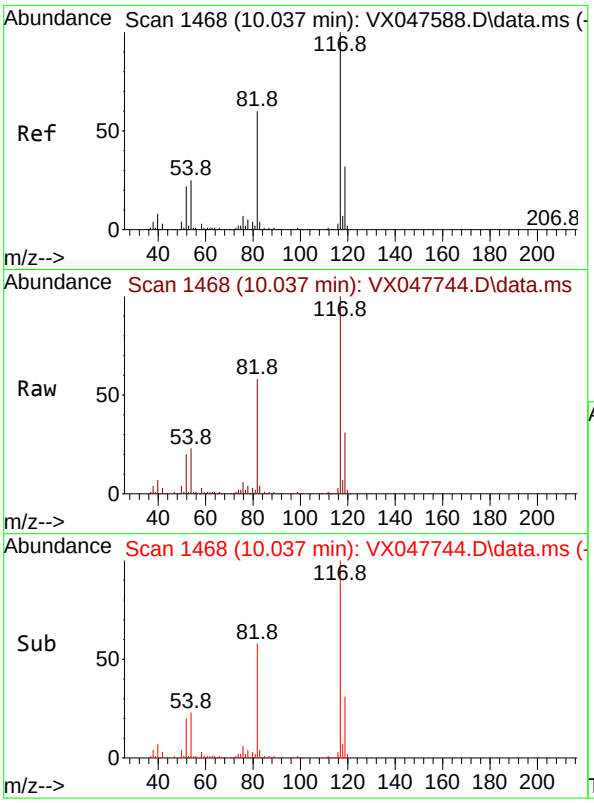


#62
4-Bromofluorobenzene
Concen: 49.307 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 95 Resp: 117402

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	69.0	0.0	138.4



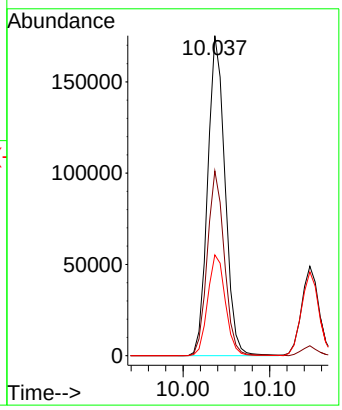


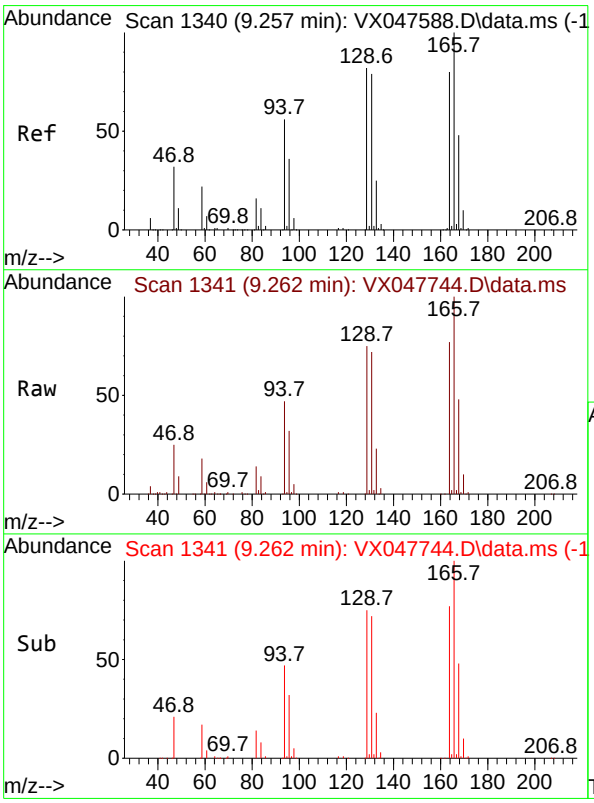
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 243306

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.5	25.2	37.8

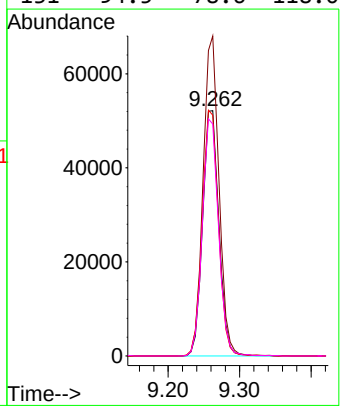


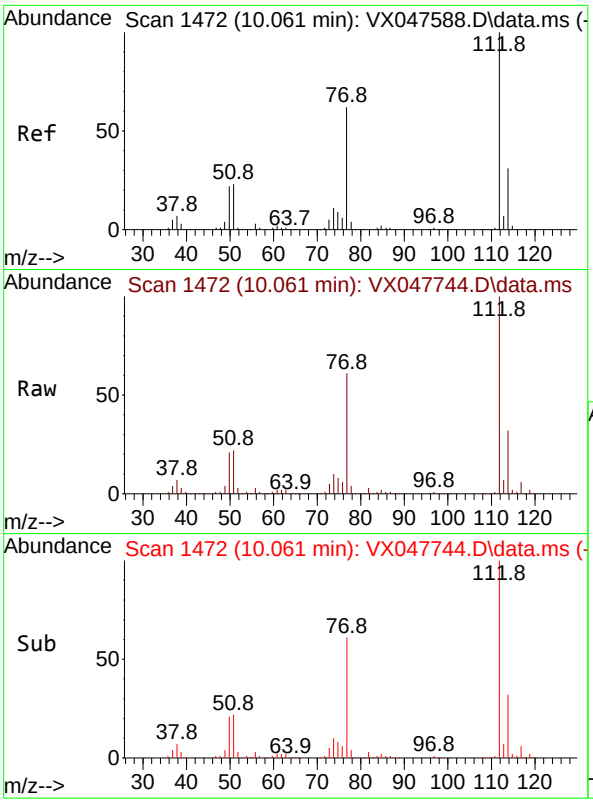


#64
Tetrachloroethene
Concen: 51.765 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:164 Resp: 82104

Ion	Ratio	Lower	Upper
164	100		
166	130.4	100.2	150.2
129	98.1	81.8	122.6
131	94.5	78.6	118.0



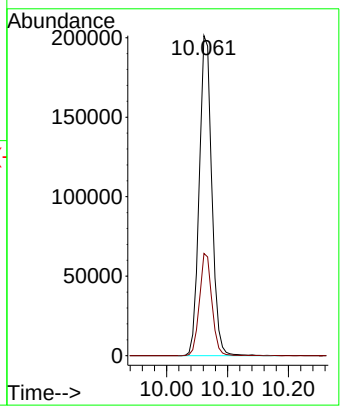


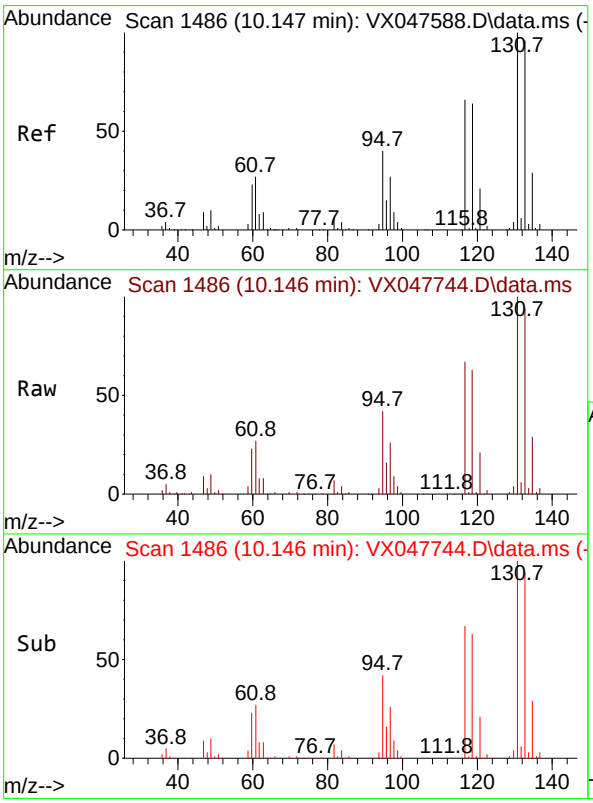
#65
Chlorobenzene
Concen: 52.159 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 288305

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7

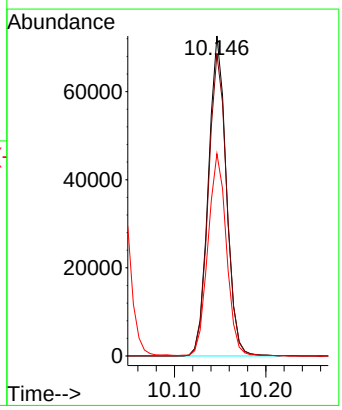


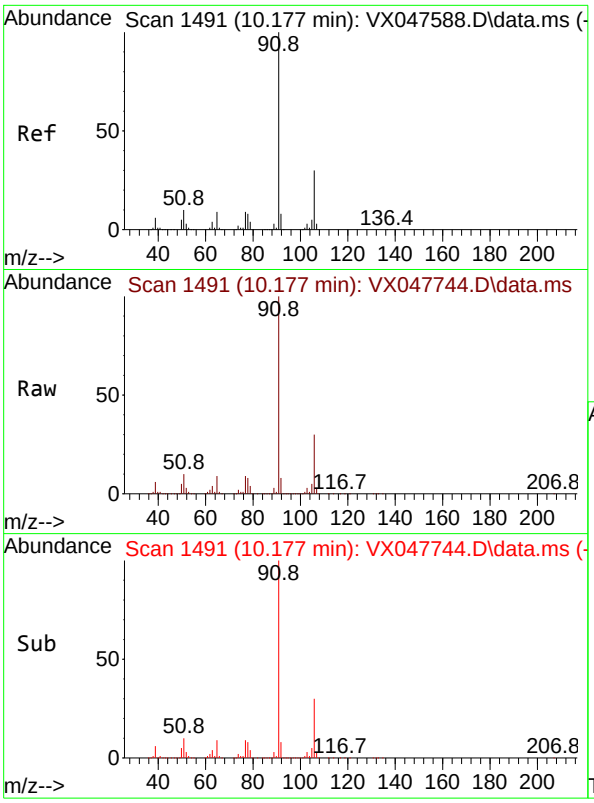


#66
1,1,1,2-Tetrachloroethane
Concen: 51.810 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:131 Resp: 98820

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	65.2	32.0	96.0



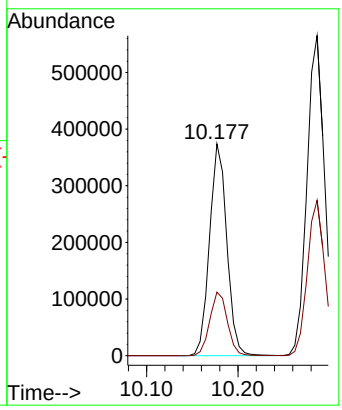


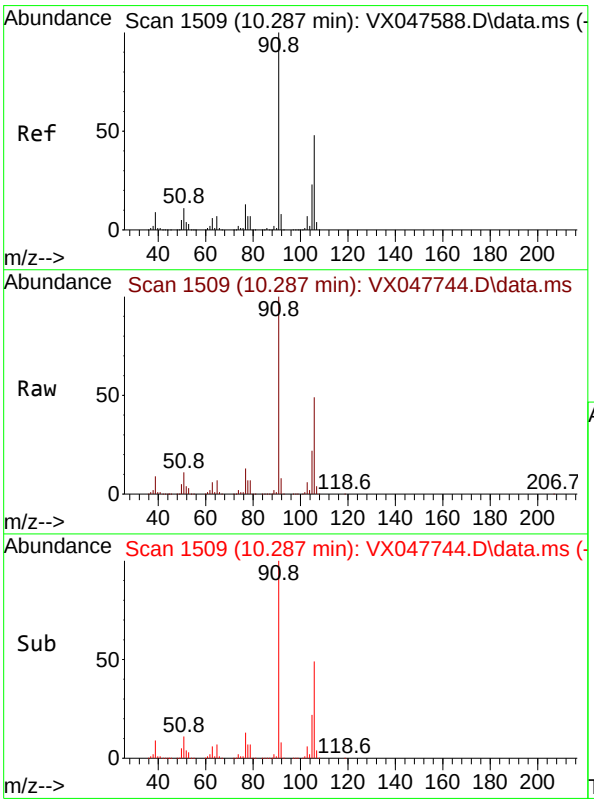
#67
Ethyl Benzene
Concen: 51.527 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 491426

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

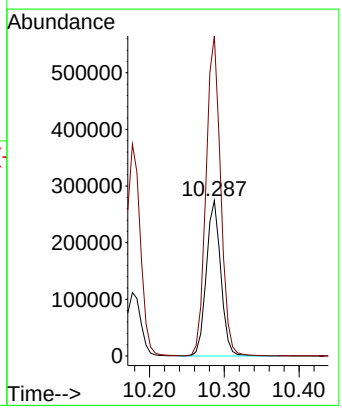


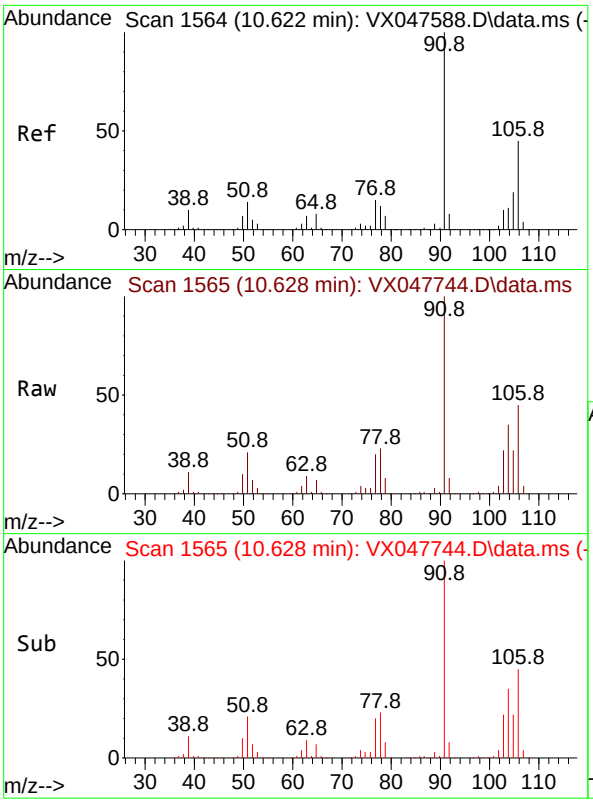


#68
m/p-Xylenes
Concen: 103.518 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:106 Resp: 367469

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.8	251.8



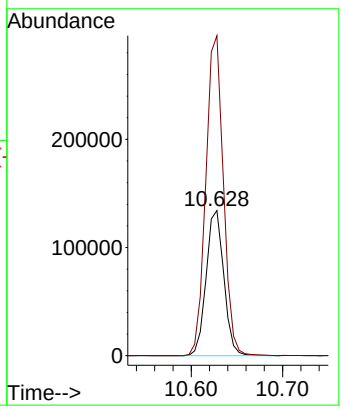


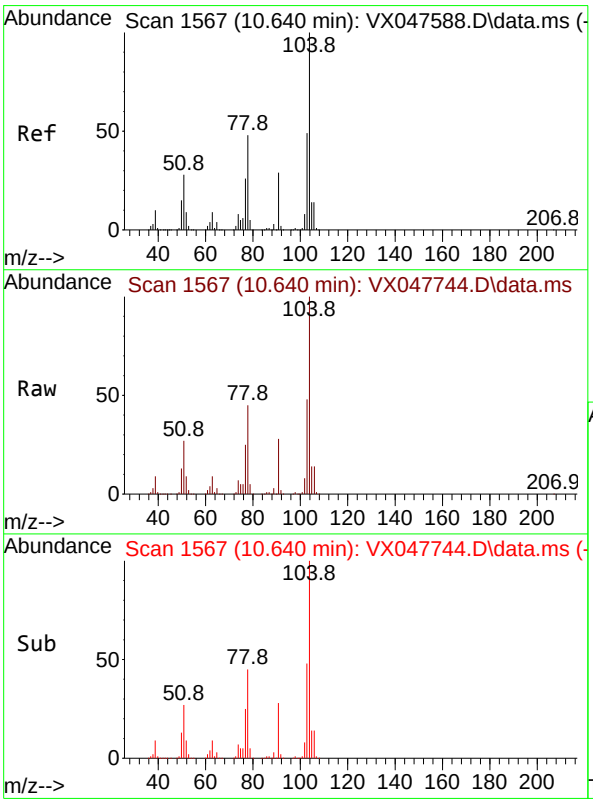
#69
o-Xylene
Concen: 52.511 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 180297

Ion	Ratio	Lower	Upper
106	100		
91	219.4	111.1	333.4

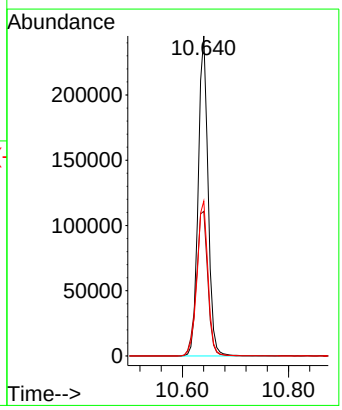


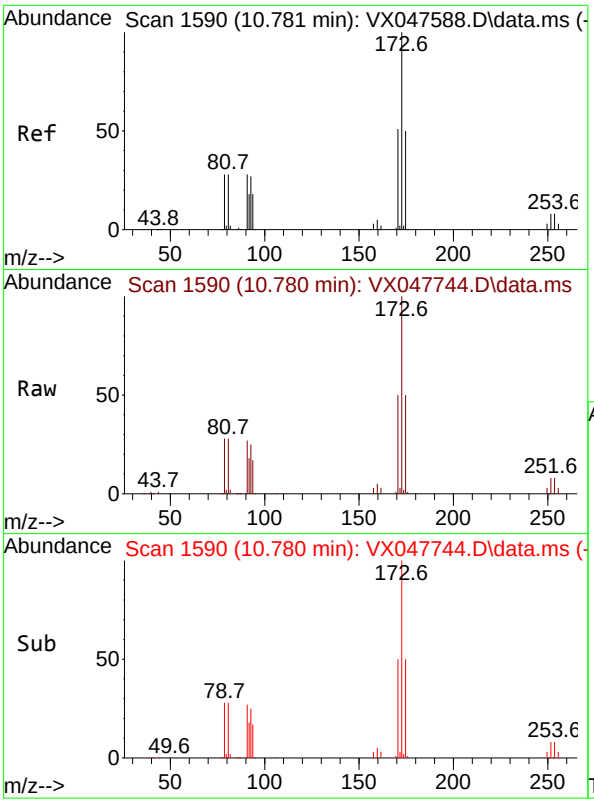


#70
Styrene
Concen: 52.779 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:104 Resp: 317529

Ion	Ratio	Lower	Upper
104	100		
78	52.2	43.1	64.7
103	53.6	43.1	64.7



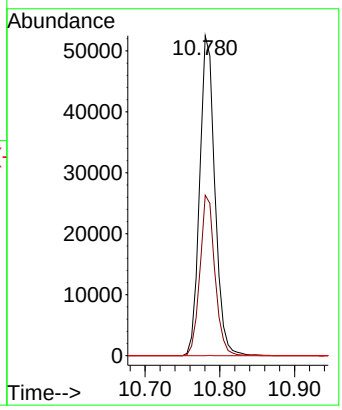


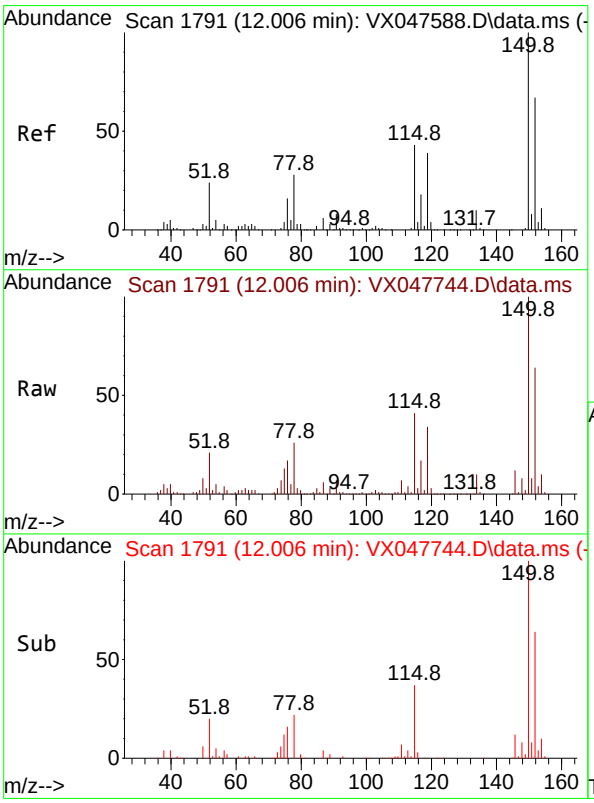
#71
Bromoform
Concen: 52.097 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 74197

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1#

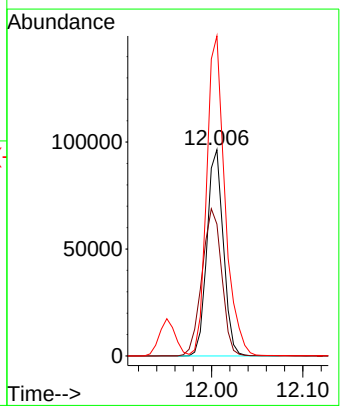


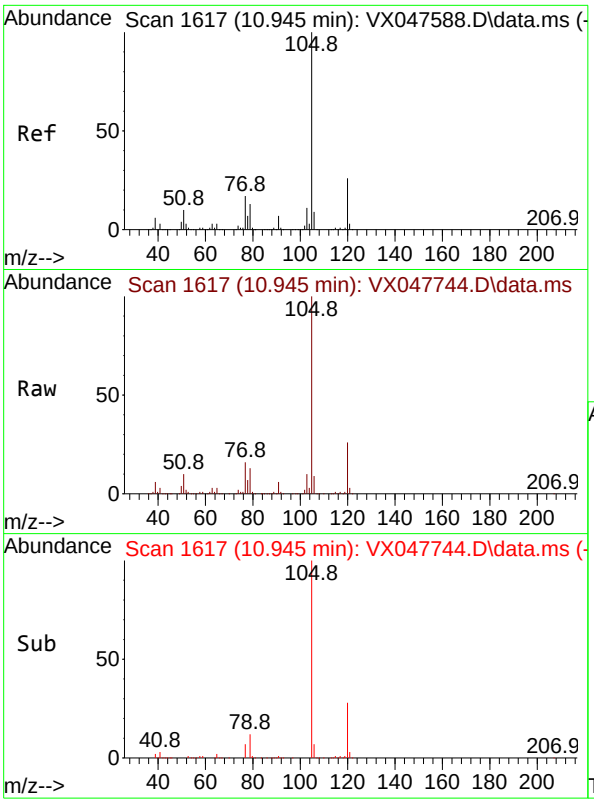


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:152 Resp: 119961

Ion	Ratio	Lower	Upper
152	100		
115	86.2	44.9	134.5
150	173.4	0.0	352.0



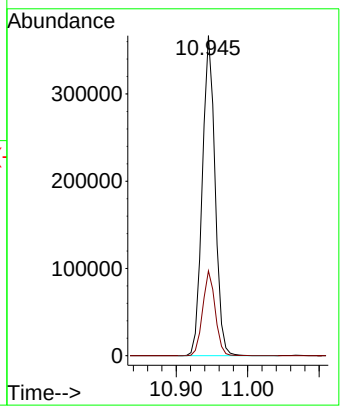


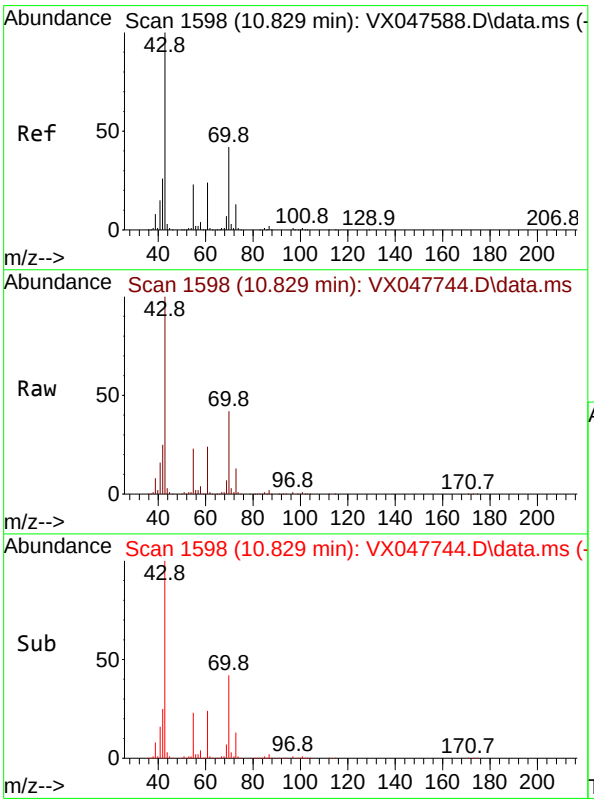
#73
Isopropylbenzene
Concen: 49.722 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 453473

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

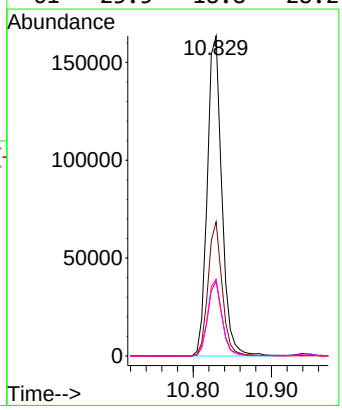


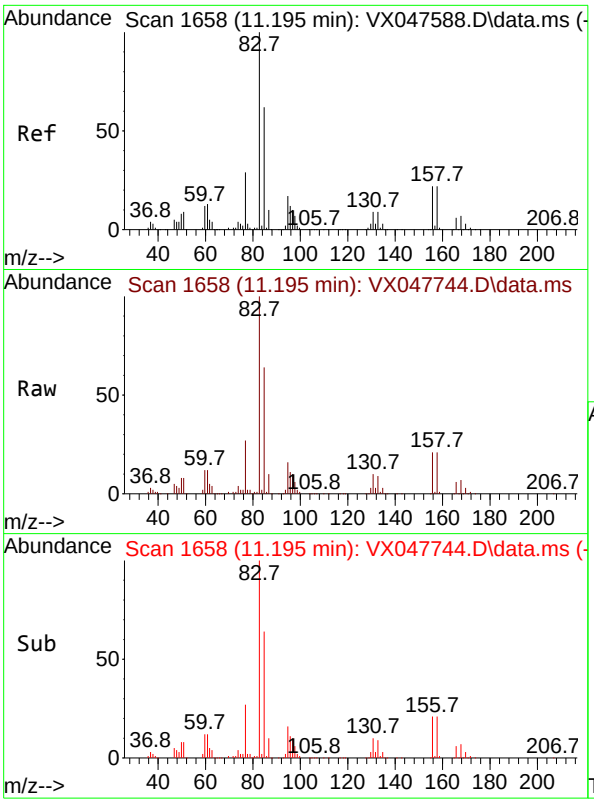


#74
N-amyl acetate
Concen: 50.685 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 210798

Ion	Ratio	Lower	Upper
43	100		
70	40.7	32.0	48.0
55	23.3	18.9	28.3
61	23.5	18.8	28.2



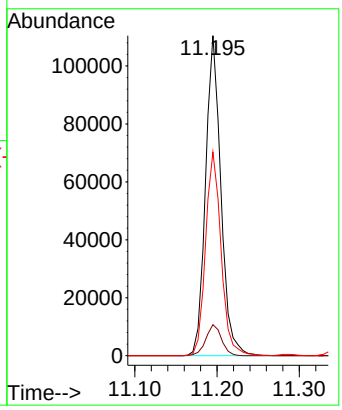


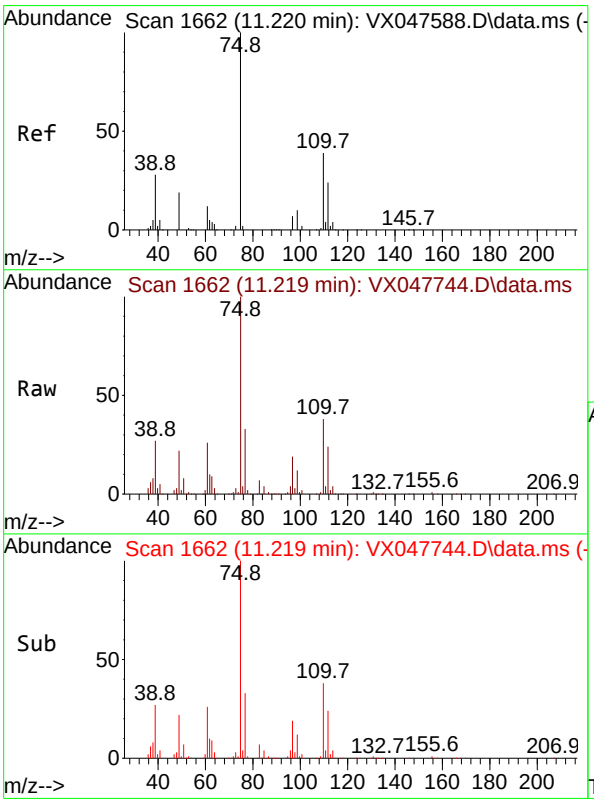
#75
1,1,2,2-Tetrachloroethane
Concen: 51.892 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 143186

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.3	31.6	95.0

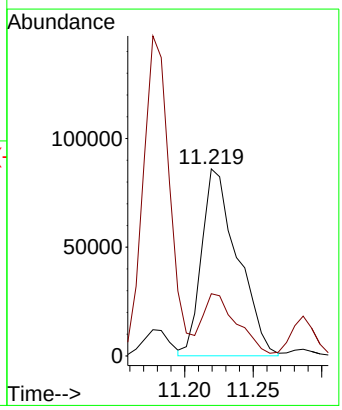


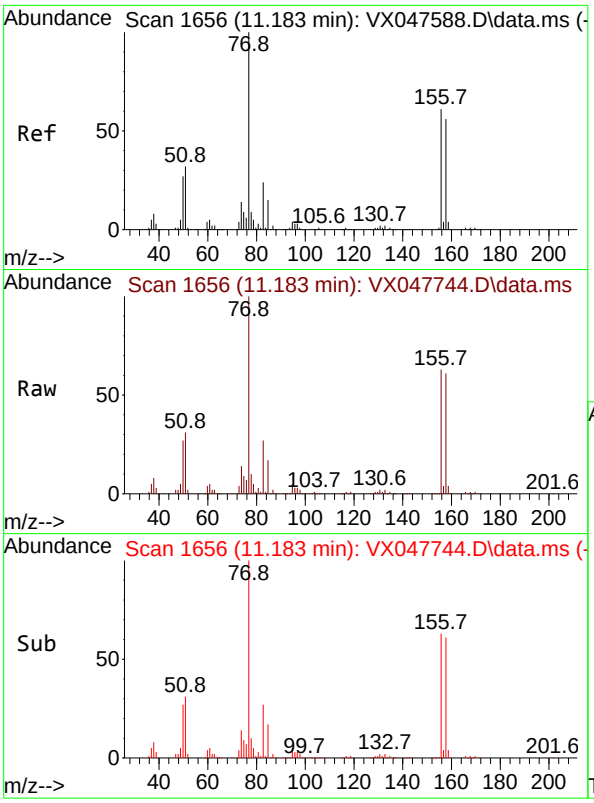


#76
1,2,3-Trichloropropane
Concen: 64.715 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 157182

Ion	Ratio	Lower	Upper
75	100		
77	31.1	18.8	56.4



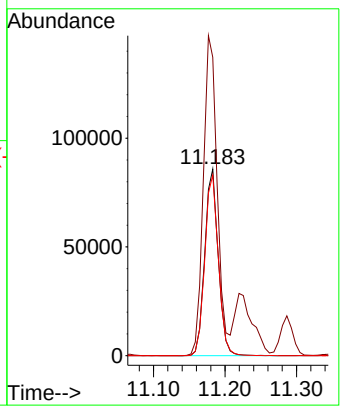


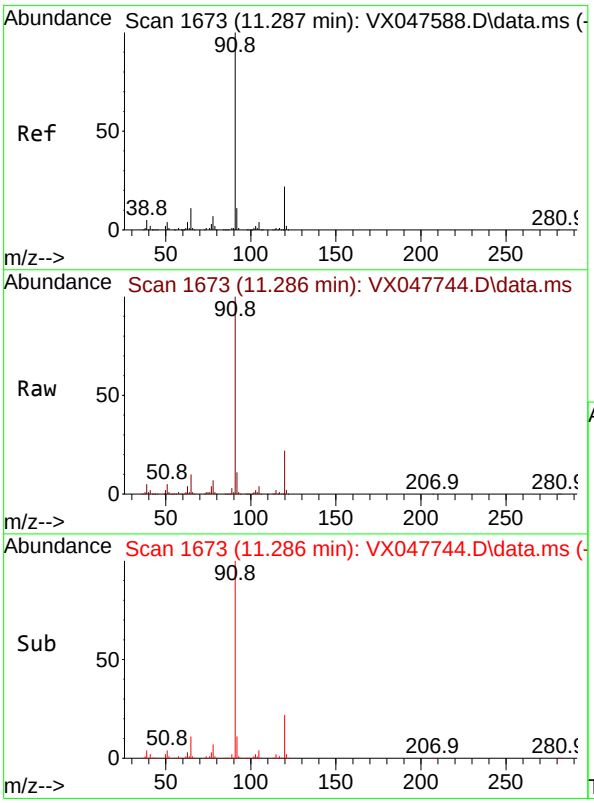
#77
Bromobenzene
Concen: 50.007 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 112329

Ion	Ratio	Lower	Upper
156	100		
77	177.2	89.7	269.1
158	97.8	47.9	143.6

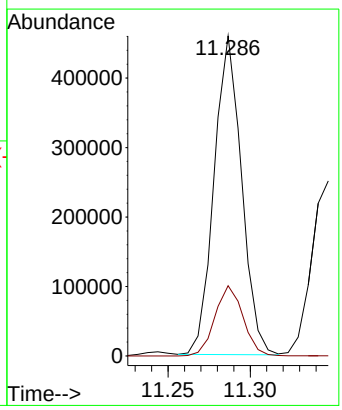


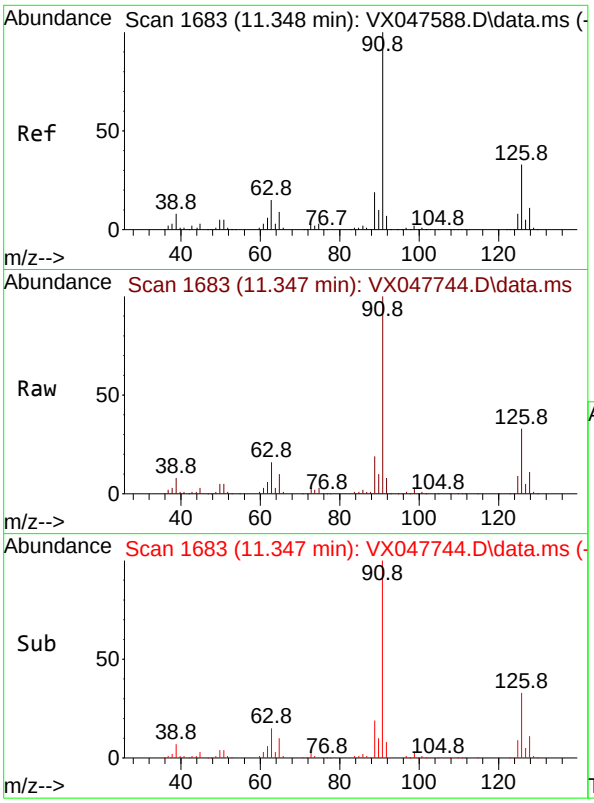


#78
n-propylbenzene
Concen: 49.483 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 533484

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1



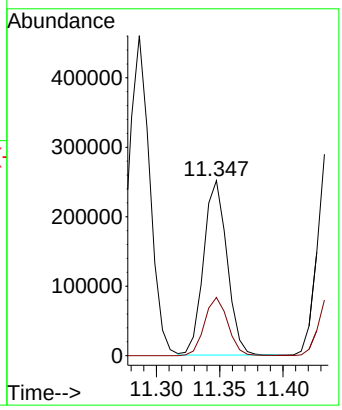


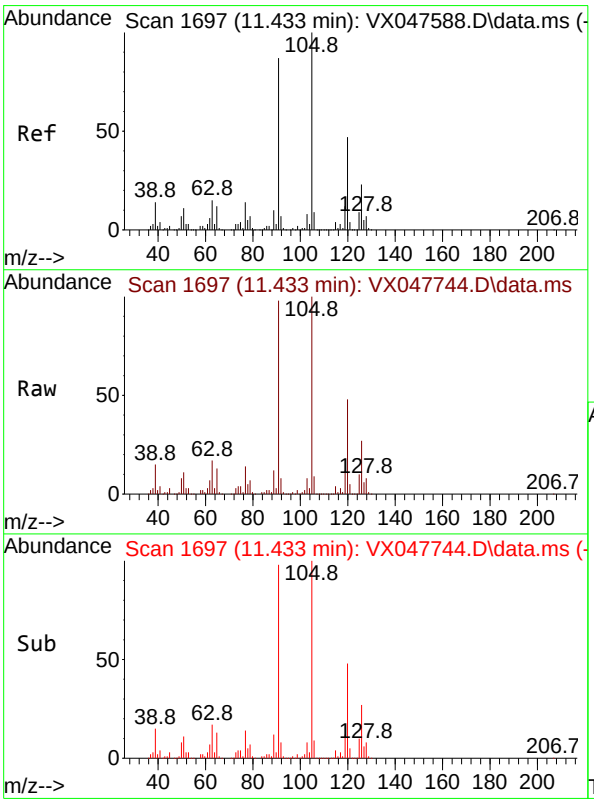
#79
2-Chlorotoluene
Concen: 49.069 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 324017

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.3

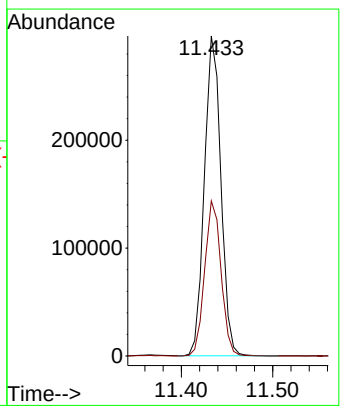


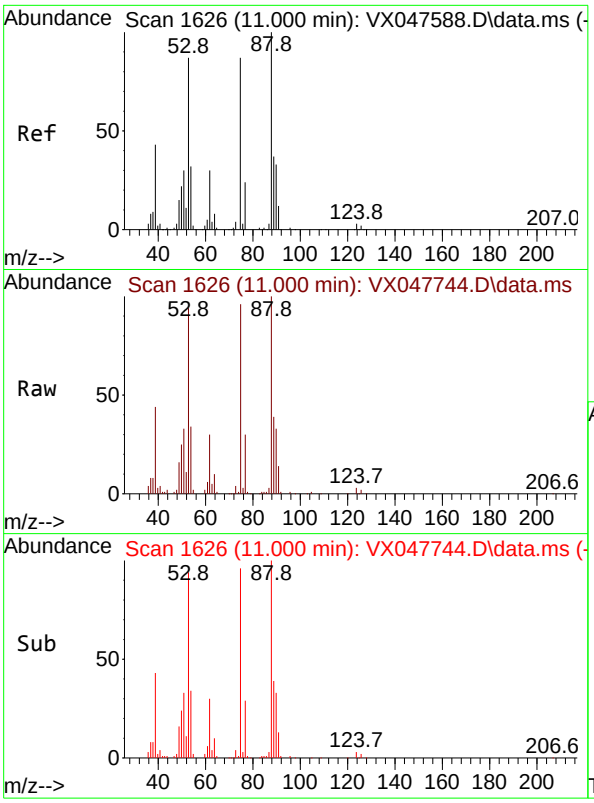


#80
1,3,5-Trimethylbenzene
Concen: 49.437 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 370433

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.6	70.8



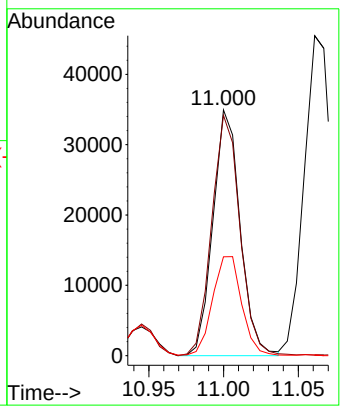


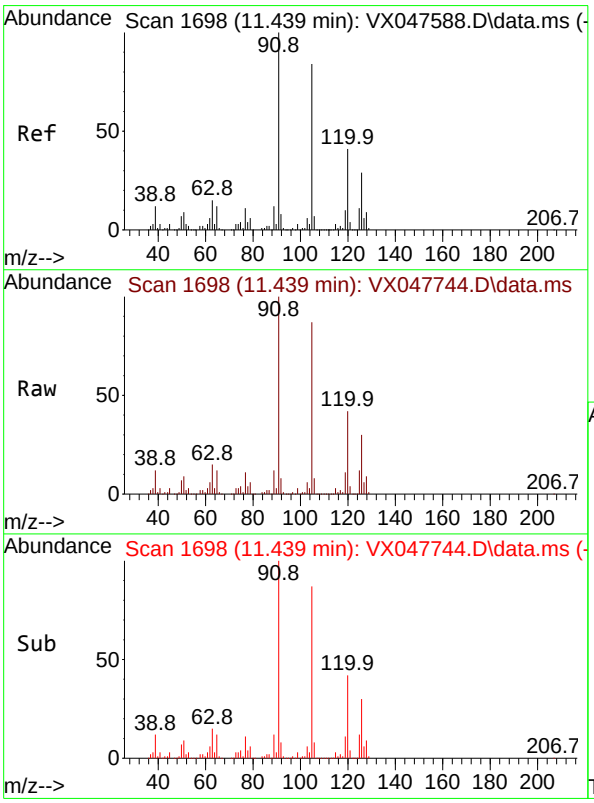
#81
trans-1,4-Dichloro-2-butene
Concen: 46.433 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 44224

Ion	Ratio	Lower	Upper
75	100		
53	101.6	83.4	125.2
89	42.9	36.3	54.5

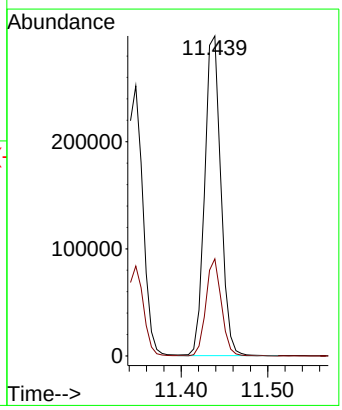


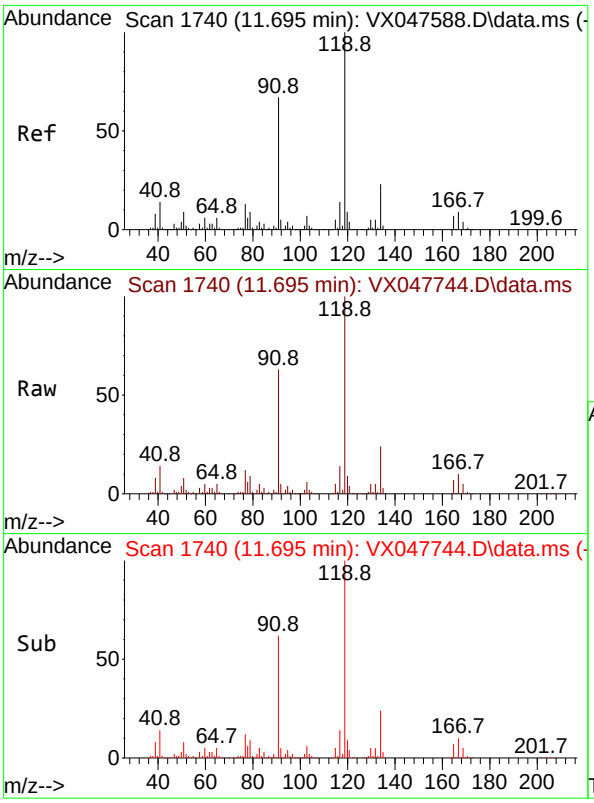


#82
4-Chlorotoluene
Concen: 49.610 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 386898

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.2	42.6



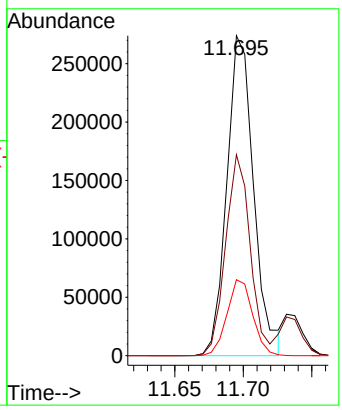


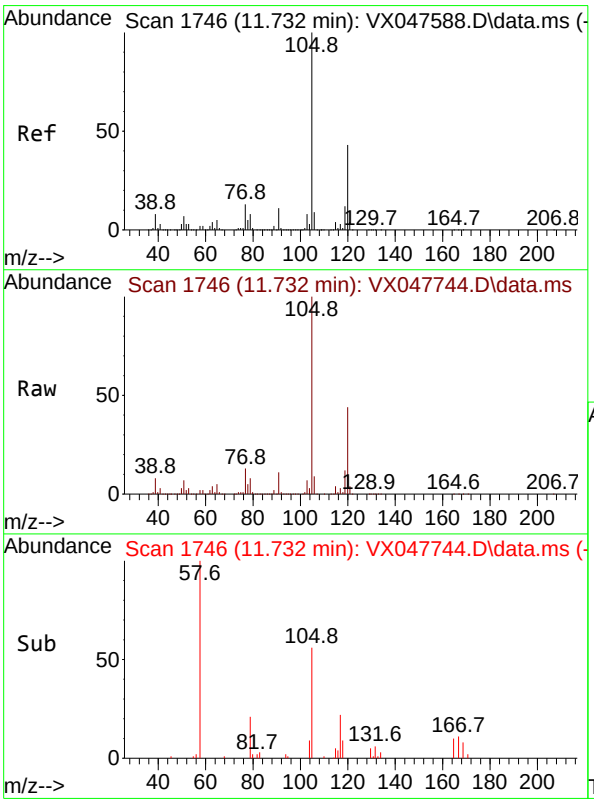
#83
tert-Butylbenzene
Concen: 48.704 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 373585

Ion	Ratio	Lower	Upper
119	100		
91	57.7	29.6	88.8
134	22.8	11.0	33.0

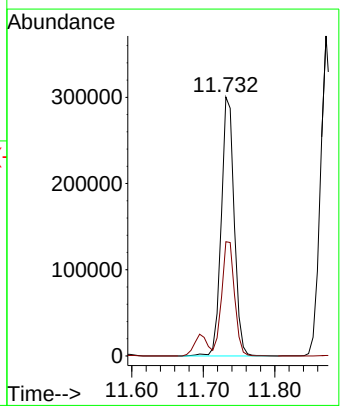


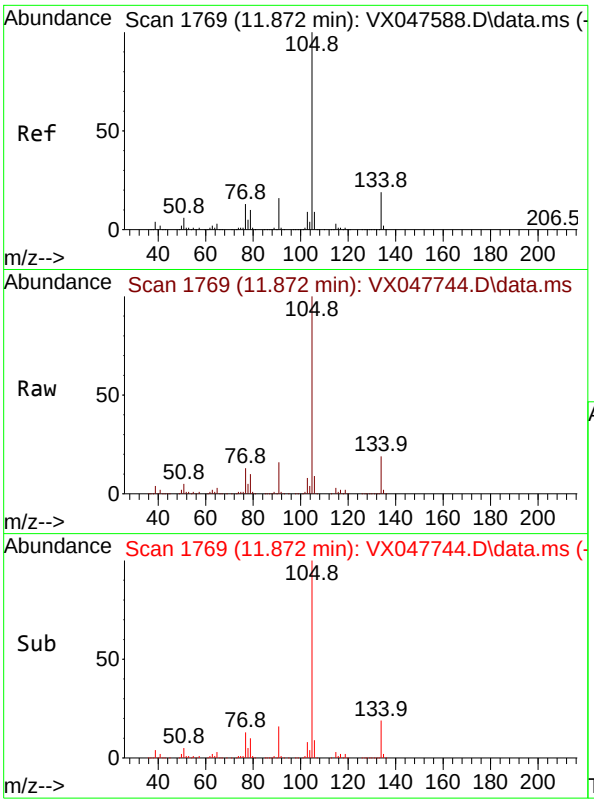


#84
1,2,4-Trimethylbenzene
Concen: 49.591 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 376730

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1



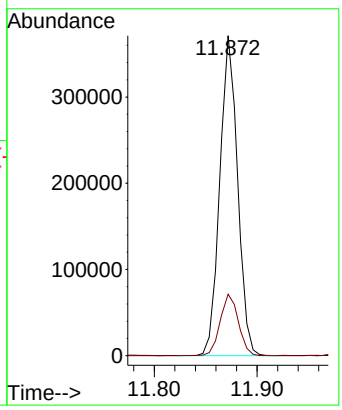


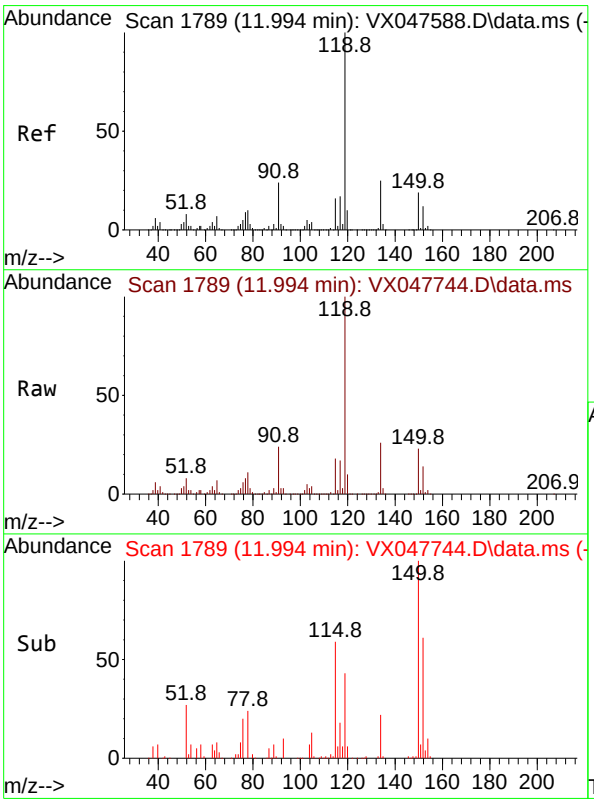
#85
sec-Butylbenzene
Concen: 48.878 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 445326

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

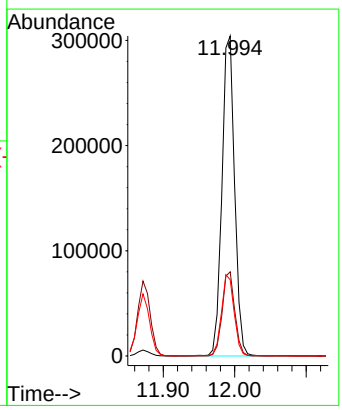


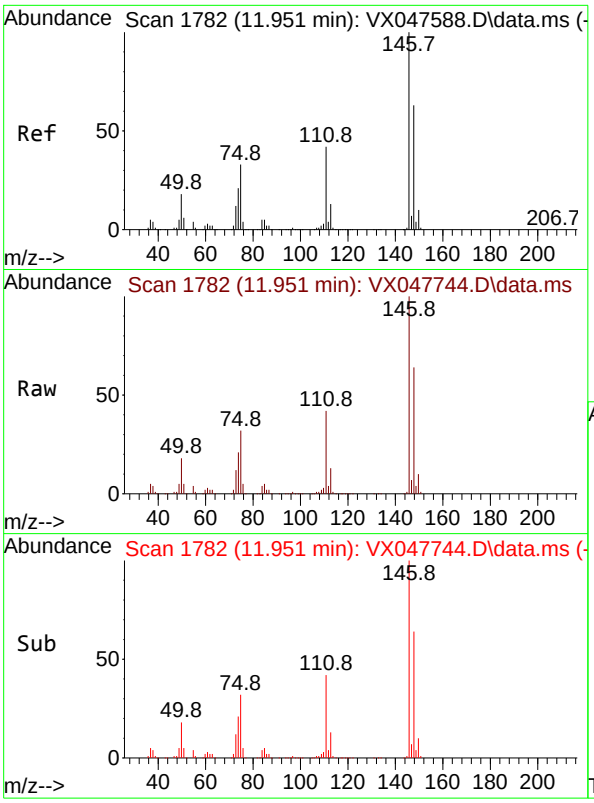


#86
p-Isopropyltoluene
Concen: 48.479 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:119 Resp: 373936

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.3	12.6	37.6



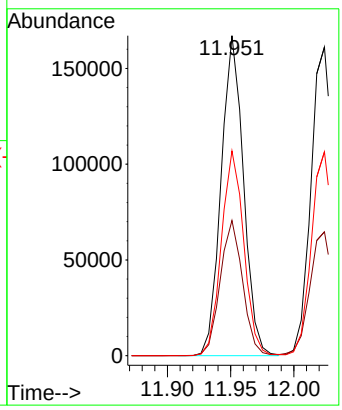


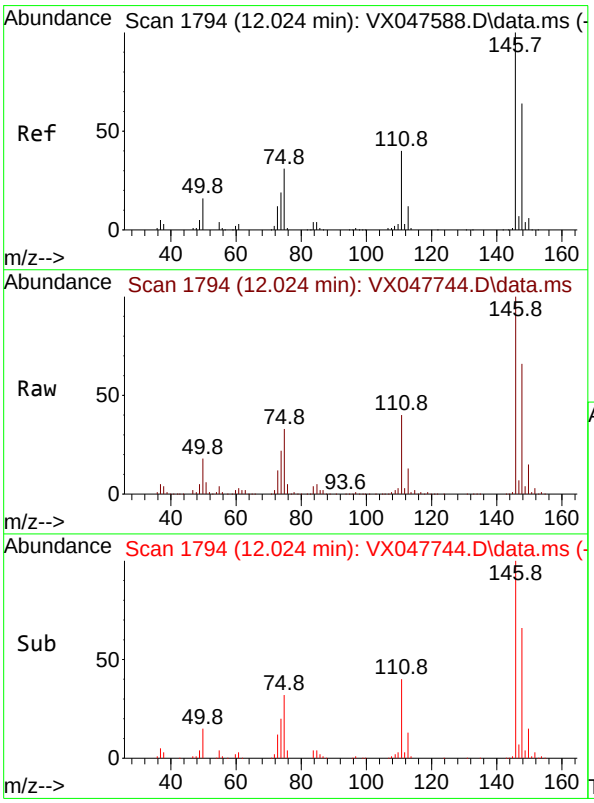
#87
1,3-Dichlorobenzene
Concen: 49.286 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 205631

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	64.2	32.0	96.0

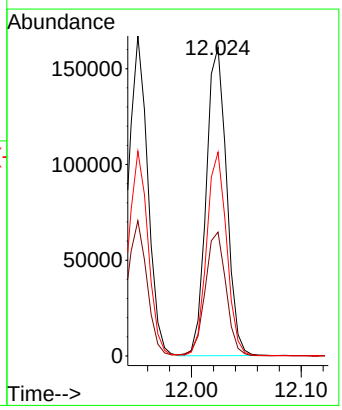


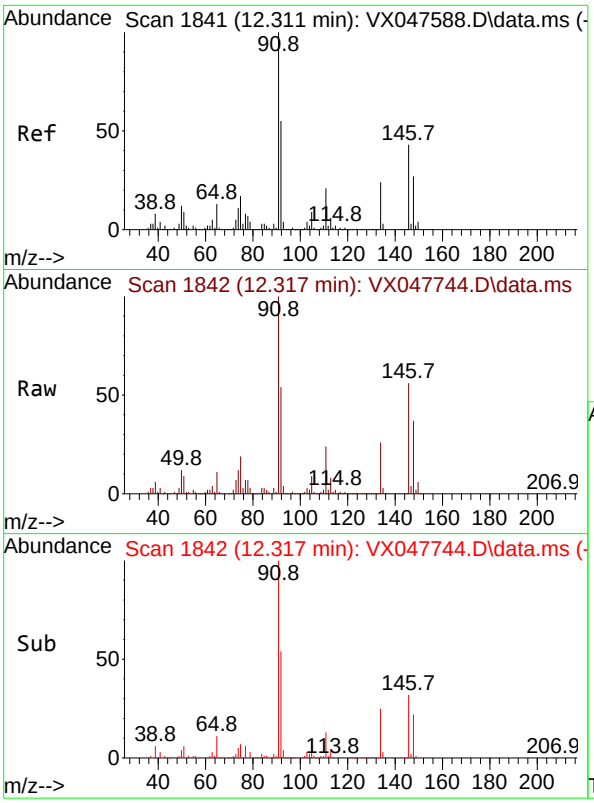


#88
1,4-Dichlorobenzene
Concen: 48.449 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:146 Resp: 207463

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.4
148	65.1	31.7	95.1



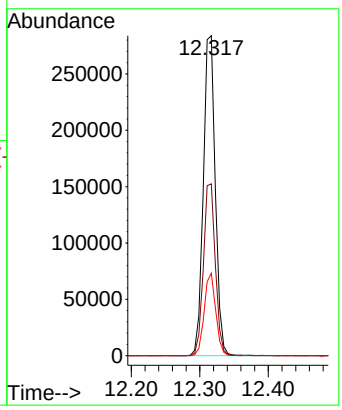


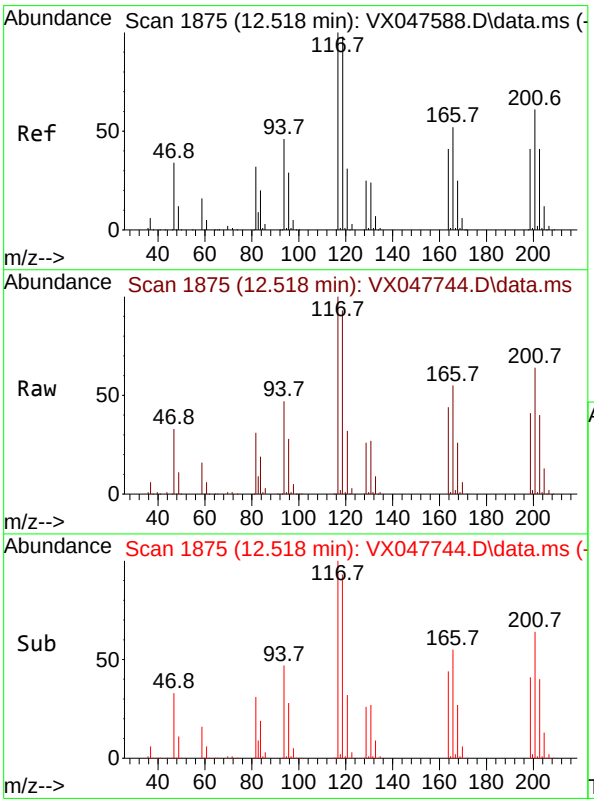
#89
n-Butylbenzene
Concen: 48.442 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 345737

Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.6	82.7
134	24.8	12.6	37.8

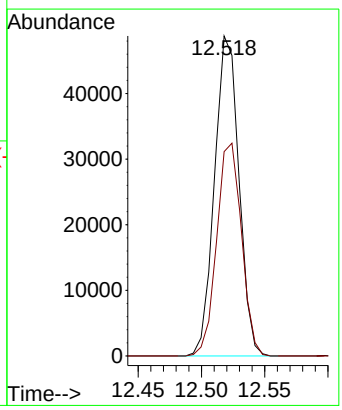


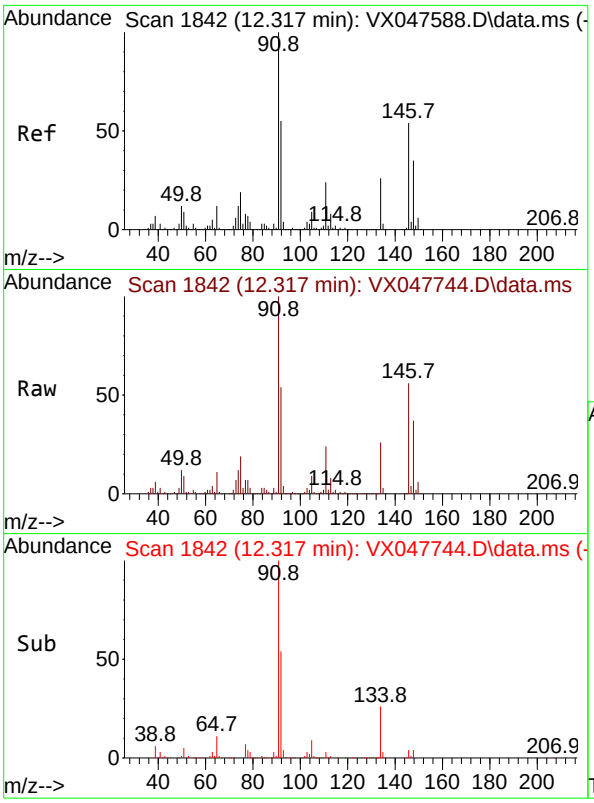


#90
Hexachloroethane
Concen: 48.232 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 65317

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5



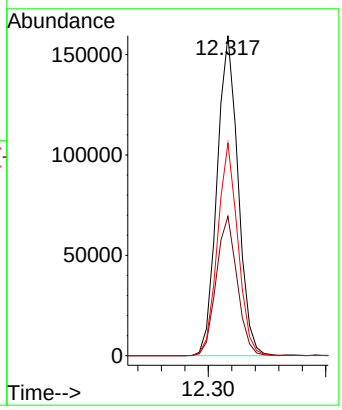


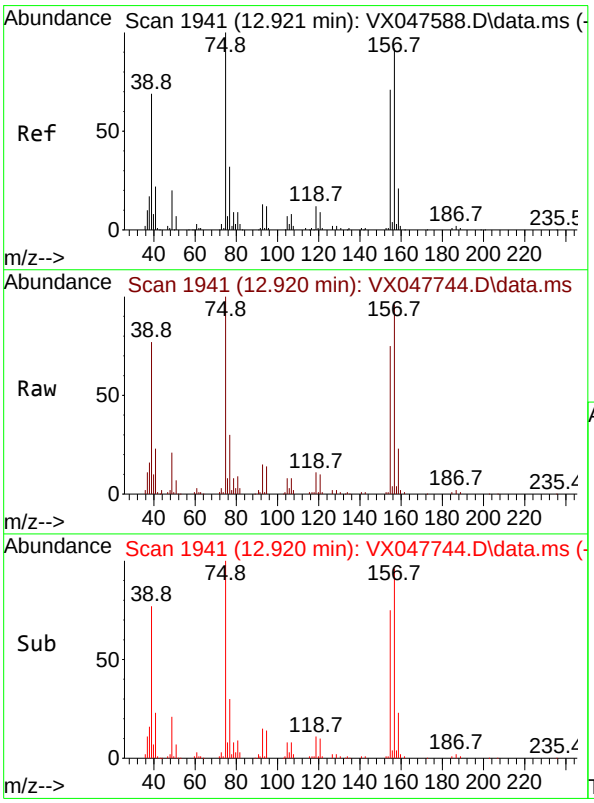
#91
1,2-Dichlorobenzene
Concen: 49.953 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 198557

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	64.3	31.8	95.4

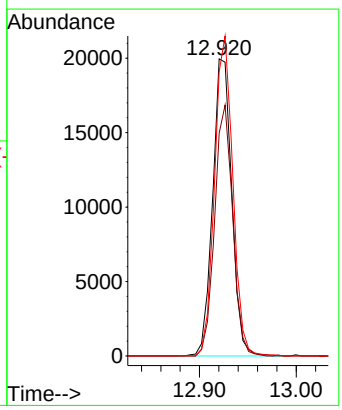


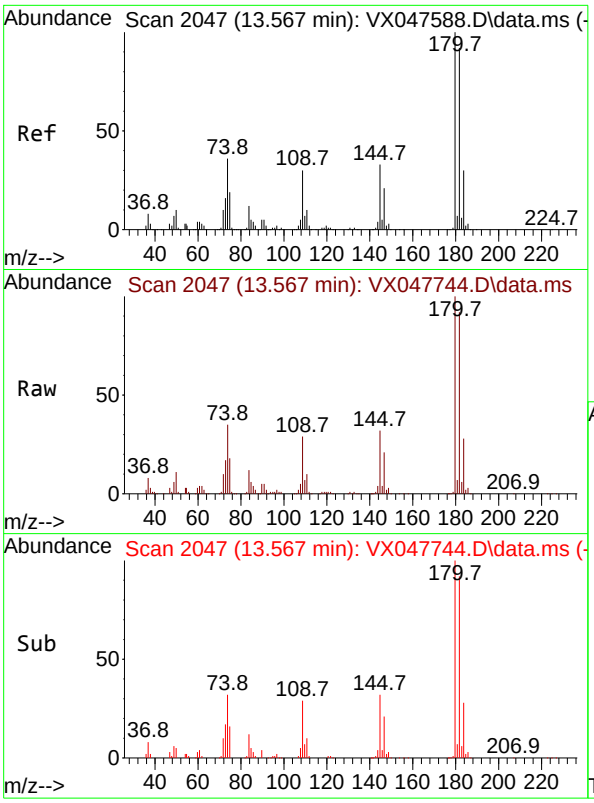


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.908 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 27323

Ion	Ratio	Lower	Upper
75	100		
155	79.8	37.7	113.1
157	103.2	49.8	149.4



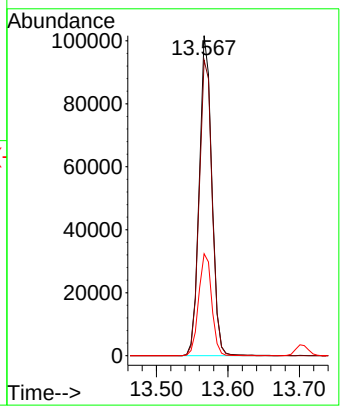


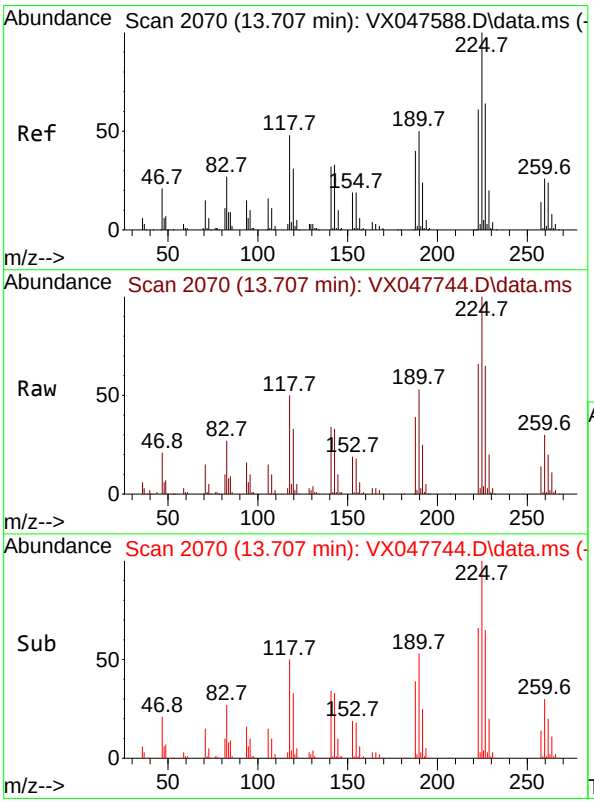
#93
1,2,4-Trichlorobenzene
Concen: 47.762 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 123384

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.6	139.8
145	33.1	16.4	49.1

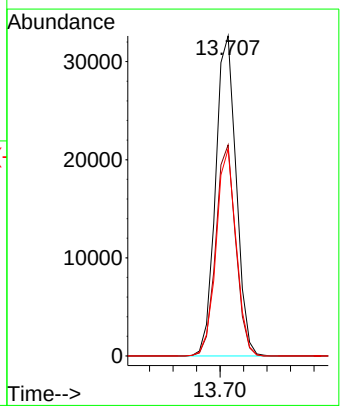


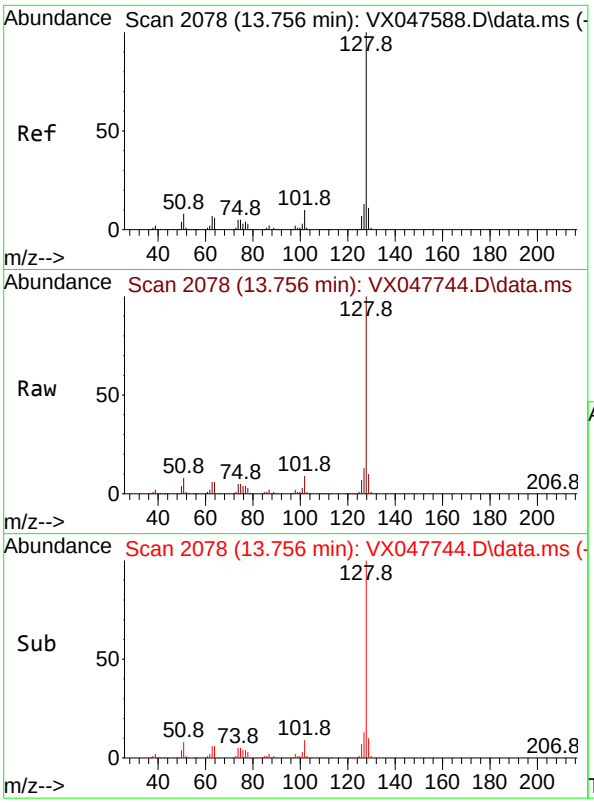


#94
Hexachlorobutadiene
Concen: 45.277 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:225 Resp: 39729

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	62.7	32.0	96.0



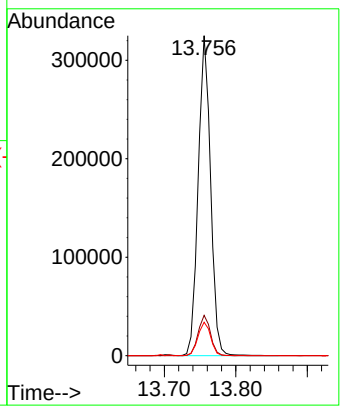


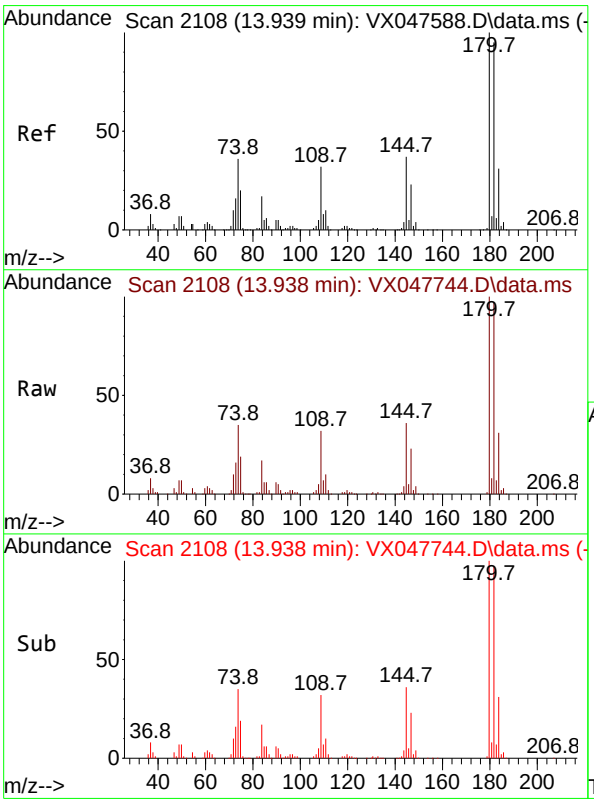
#95
Naphthalene
Concen: 49.575 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 389975

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

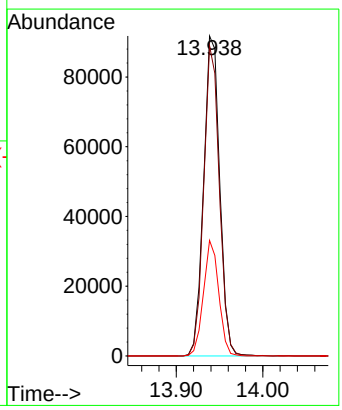




#96
1,2,3-Trichlorobenzene
Concen: 49.357 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:180 Resp: 118608

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.6	142.8
145	34.3	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	166745	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	290663	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	252770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	121948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	143883	54.210	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.420%			
35) Dibromofluoromethane	5.361	113	115620	59.312	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 118.620%			
50) Toluene-d8	8.629	98	385188	57.106	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 114.220%#			
62) 4-Bromofluorobenzene	11.061	95	143339	55.994	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	112040	64.888	ug/l	100
3) Chloromethane	1.301	50	130600	57.550	ug/l	100
4) Vinyl Chloride	1.380	62	131626	59.253	ug/l	99
5) Bromomethane	1.612	94	78027	55.392	ug/l	100
6) Chloroethane	1.691	64	81956	55.200	ug/l	99
7) Trichlorofluoromethane	1.892	101	183574	55.656	ug/l	98
8) Diethyl Ether	2.136	74	71840	53.244	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	109156	56.598	ug/l	98
10) Methyl Iodide	2.453	142	159713	53.098	ug/l	100
11) Tert butyl alcohol	2.941	59	74645	252.518	ug/l	99
12) 1,1-Dichloroethene	2.319	96	110500	55.777	ug/l	95
13) Acrolein	2.233	56	76283	280.037	ug/l	97
14) Allyl chloride	2.660	41	201882	49.383	ug/l	97
15) Acrylonitrile	3.050	53	308364	281.629	ug/l	99
16) Acetone	2.374	43	248054	214.945	ug/l	97
17) Carbon Disulfide	2.514	76	299474	55.218	ug/l	98
18) Methyl Acetate	2.697	43	144662	56.326	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	375666	51.946	ug/l	100
20) Methylene Chloride	2.788	84	128569	52.632	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	115848	54.315	ug/l	98
22) Diisopropyl ether	3.745	45	417196	52.658	ug/l	88
23) Vinyl Acetate	3.709	43	1676763	264.433	ug/l	100
24) 1,1-Dichloroethane	3.599	63	224981	53.426	ug/l	100
25) 2-Butanone	4.532	43	365129	253.647	ug/l	98
26) 2,2-Dichloropropane	4.459	77	121706	34.769	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	135871	52.016	ug/l	95
28) Bromochloromethane	4.879	49	104808	57.010	ug/l	98
29) Tetrahydrofuran	4.983	42	236130	272.674	ug/l	99
30) Chloroform	5.068	83	221493	52.050	ug/l	97
31) Cyclohexane	5.452	56	179654	51.224	ug/l	96
32) 1,1,1-Trichloroethane	5.361	97	187296	51.890	ug/l	100
36) 1,1-Dichloropropene	5.672	75	146503	51.432	ug/l	99
37) Ethyl Acetate	4.690	43	157558	51.660	ug/l	99
38) Carbon Tetrachloride	5.660	117	160891	51.986	ug/l	97
39) Methylcyclohexane	7.361	83	167414	51.777	ug/l	99
40) Benzene	6.019	78	460455	53.223	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	87766	55.742	ug/l		97
42) 1,2-Dichloroethane	6.068	62	165276	50.209	ug/l		98
43) Isopropyl Acetate	6.318	43	257745	51.528	ug/l		99
44) Trichloroethene	7.104	130	112394	53.736	ug/l		99
45) 1,2-Dichloropropane	7.409	63	116449	52.565	ug/l		100
46) Dibromomethane	7.562	93	84502	52.418	ug/l		98
47) Bromodichloromethane	7.799	83	172703	51.915	ug/l		99
48) Methyl methacrylate	7.671	41	129497	51.974	ug/l		98
49) 1,4-Dioxane	7.641	88	32904	1306.764	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	749272	270.171	ug/l		100
52) Toluene	8.702	92	276160	51.811	ug/l		99
53) t-1,3-Dichloropropene	8.958	75	163001	48.037	ug/l		97
54) cis-1,3-Dichloropropene	8.348	75	178505	49.218	ug/l		96
55) 1,1,2-Trichloroethane	9.135	97	107258	52.187	ug/l		98
56) Ethyl methacrylate	9.098	69	169567	52.534	ug/l		97
57) 1,3-Dichloropropane	9.287	76	186062	52.699	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	436211	280.568	ug/l		100
59) 2-Hexanone	9.415	43	518114	260.122	ug/l		98
60) Dibromochloromethane	9.500	129	125404	52.954	ug/l		99
61) 1,2-Dibromoethane	9.592	107	111139	53.090	ug/l		100
64) Tetrachloroethene	9.257	164	87453	53.073	ug/l		97
65) Chlorobenzene	10.061	112	297945	51.885	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	104386	52.679	ug/l		100
67) Ethyl Benzene	10.177	91	516414	52.120	ug/l		100
68) m/p-Xylenes	10.287	106	390979	106.017	ug/l		98
69) o-Xylene	10.622	106	187203	52.481	ug/l		99
70) Styrene	10.634	104	330686	52.908	ug/l		98
71) Bromoform	10.781	173	80138	54.161	ug/l	#	96
73) Isopropylbenzene	10.945	105	481526	51.938	ug/l		100
74) N-amyl acetate	10.823	43	221168	52.312	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	149789	53.400	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	160130	64.854	ug/l		92
77) Bromobenzene	11.183	156	116706	51.110	ug/l		97
78) n-propylbenzene	11.287	91	563194	51.387	ug/l		99
79) 2-Chlorotoluene	11.348	91	341925	50.938	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	385950	50.669	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.000	75	42739	44.142	ug/l		98
82) 4-Chlorotoluene	11.439	91	398881	50.313	ug/l		99
83) tert-Butylbenzene	11.695	119	397171	50.936	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	394508	51.085	ug/l		99
85) sec-Butylbenzene	11.872	105	471850	50.945	ug/l		100
86) p-Isopropyltoluene	11.988	119	397440	50.687	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	214686	50.618	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	218086	50.100	ug/l		99
89) n-Butylbenzene	12.311	91	359706	49.578	ug/l		99
90) Hexachloroethane	12.518	117	70601	51.284	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	208091	51.499	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28554	50.279	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	129844	49.444	ug/l		100
94) Hexachlorobutadiene	13.707	225	42478	47.621	ug/l		99
95) Naphthalene	13.756	128	410203	51.297	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	124328	50.895	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

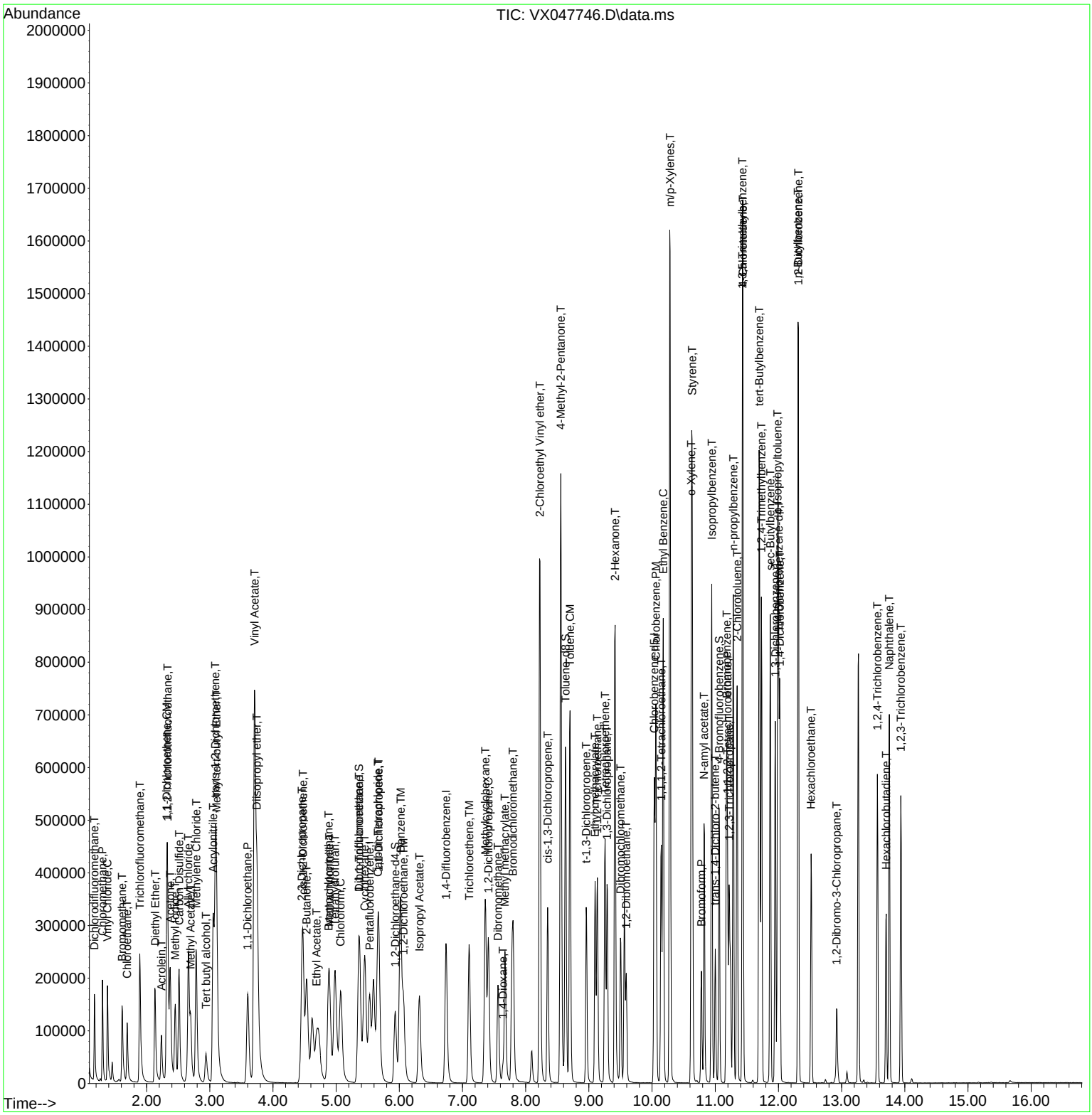
(#) = qualifier out of range (m) = manual integration (+) = signals summed

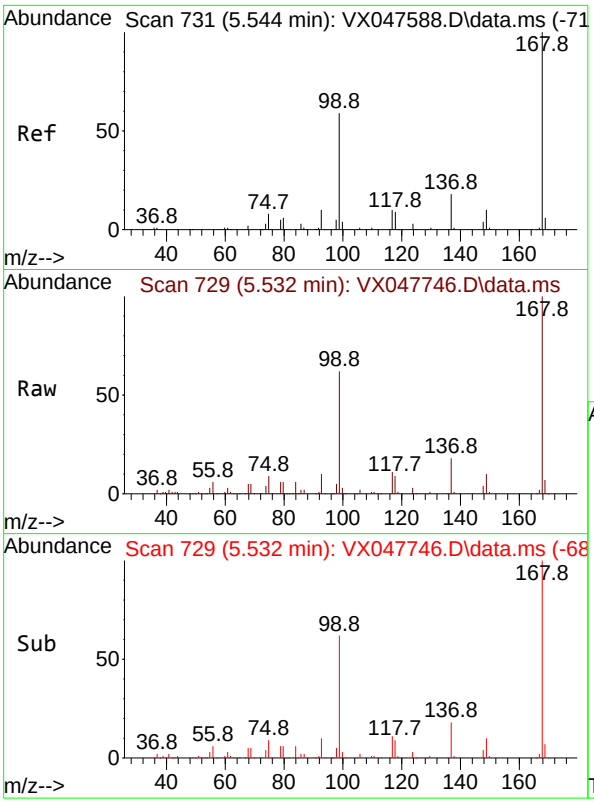
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



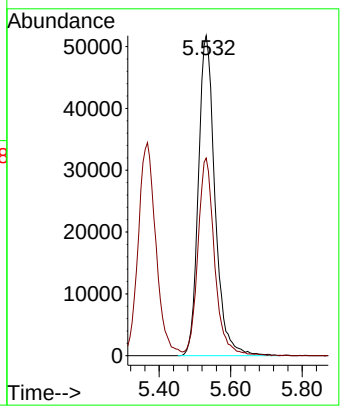


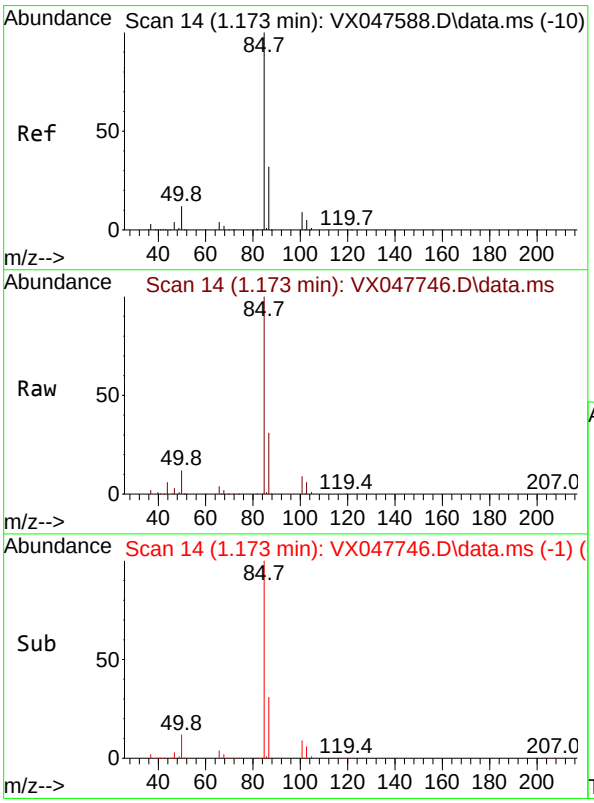
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 166745

Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2

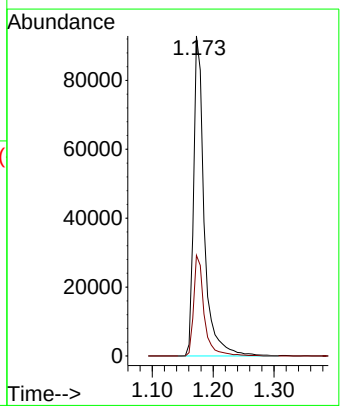


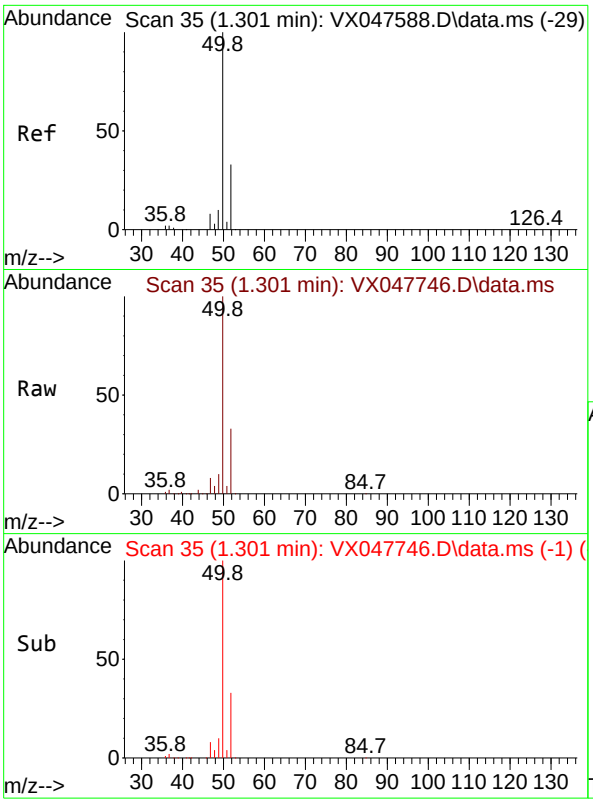


#2
Dichlorodifluoromethane
Concen: 64.888 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 85 Resp: 112040

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3



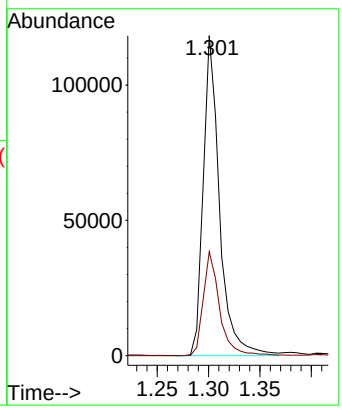


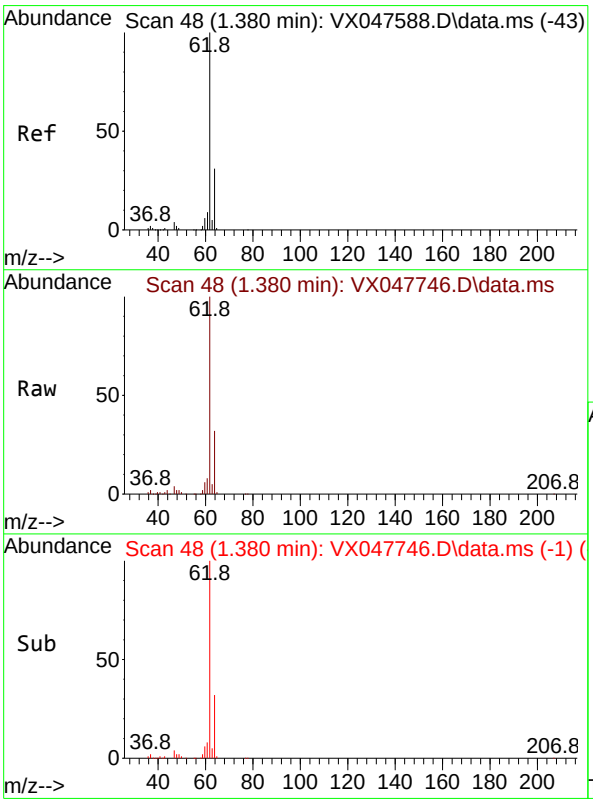
#3
Chloromethane
Concen: 57.550 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 130600

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1

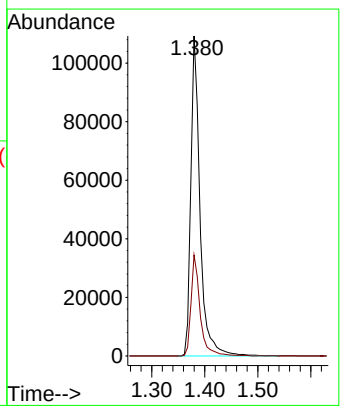


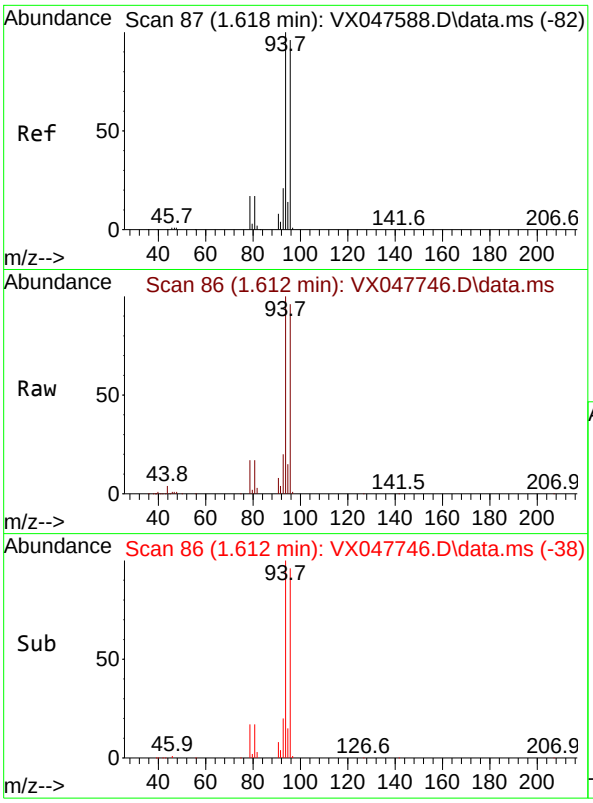


#4
Vinyl Chloride
Concen: 59.253 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 131626

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3



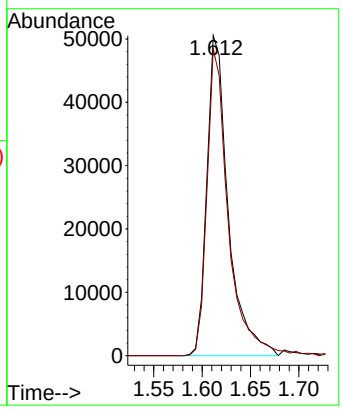


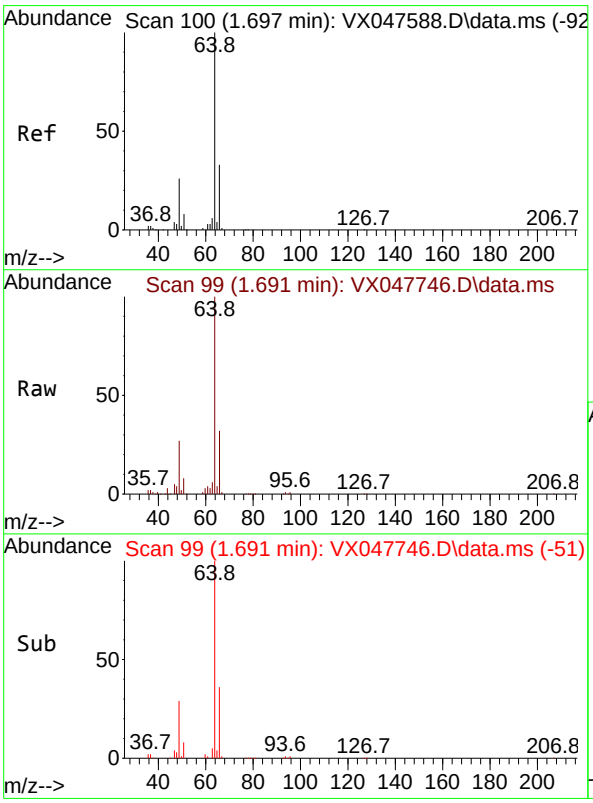
#5
Bromomethane
Concen: 55.392 ug/l
RT: 1.612 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 78027

Ion	Ratio	Lower	Upper
94	100		
96	95.9	76.6	115.0

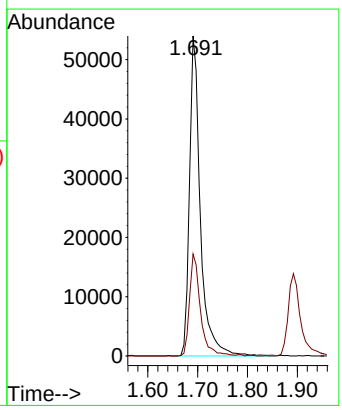


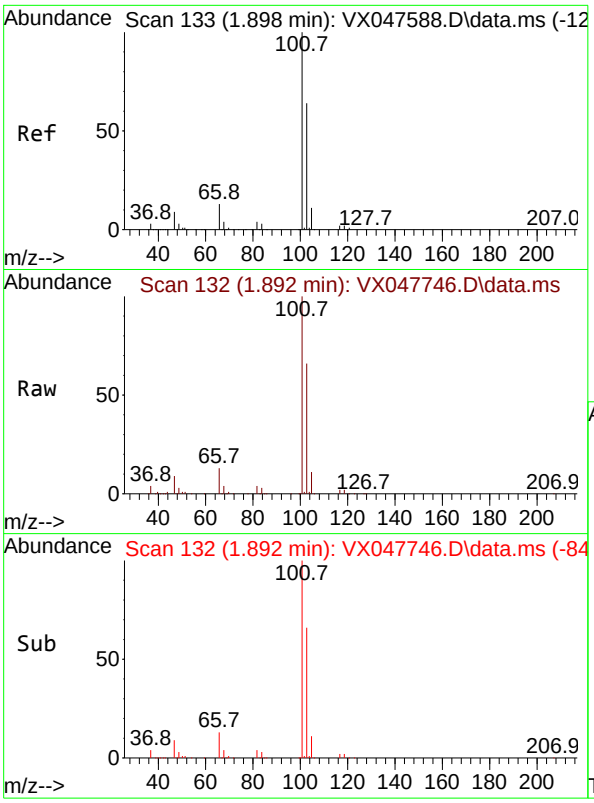


#6
Chloroethane
Concen: 55.200 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 64 Resp: 81956

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1



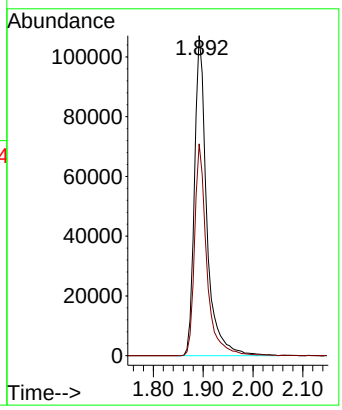


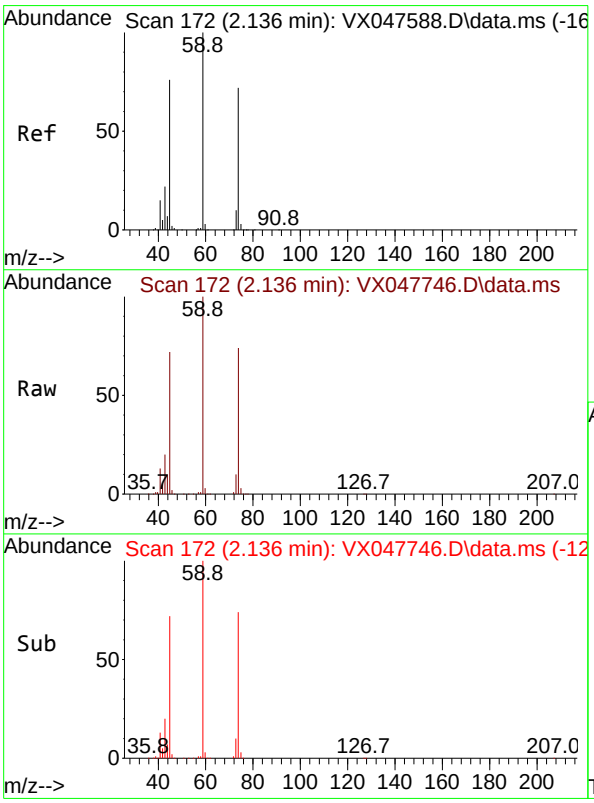
#7
Trichlorofluoromethane
Concen: 55.656 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 183574

Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.4	77.2

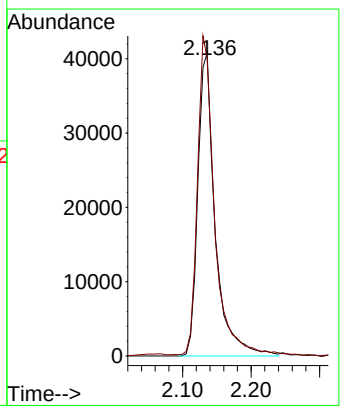


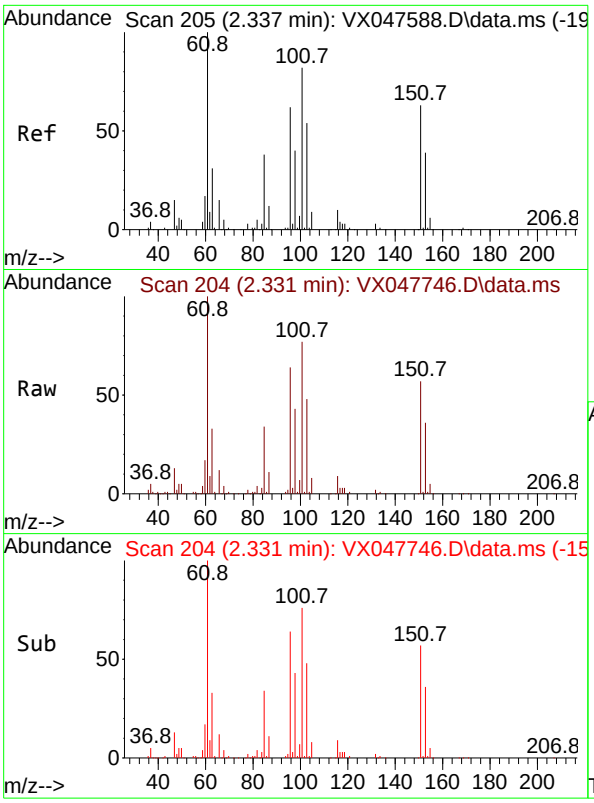


#8
Diethyl Ether
Concen: 53.244 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 74 Resp: 71840

Ion	Ratio	Lower	Upper
74	100		
45	105.8	52.3	156.8



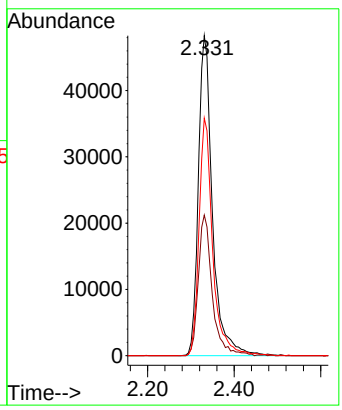


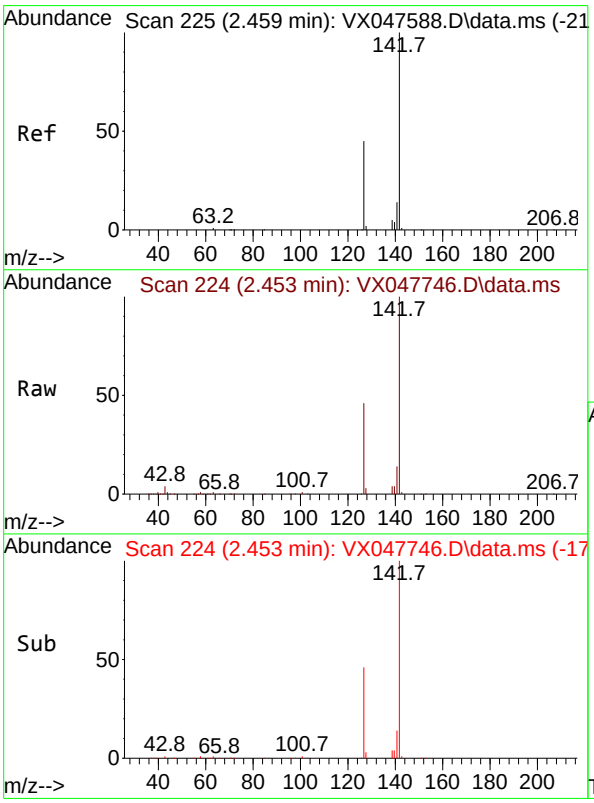
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.598 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 109156

Ion	Ratio	Lower	Upper
101	100		
85	43.4	35.5	53.3
151	72.1	59.4	89.0

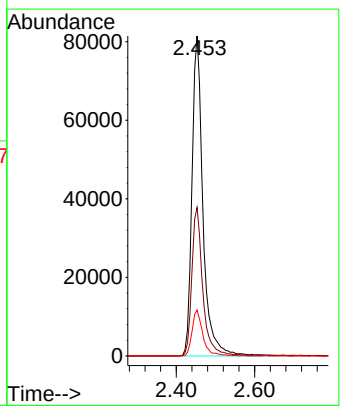


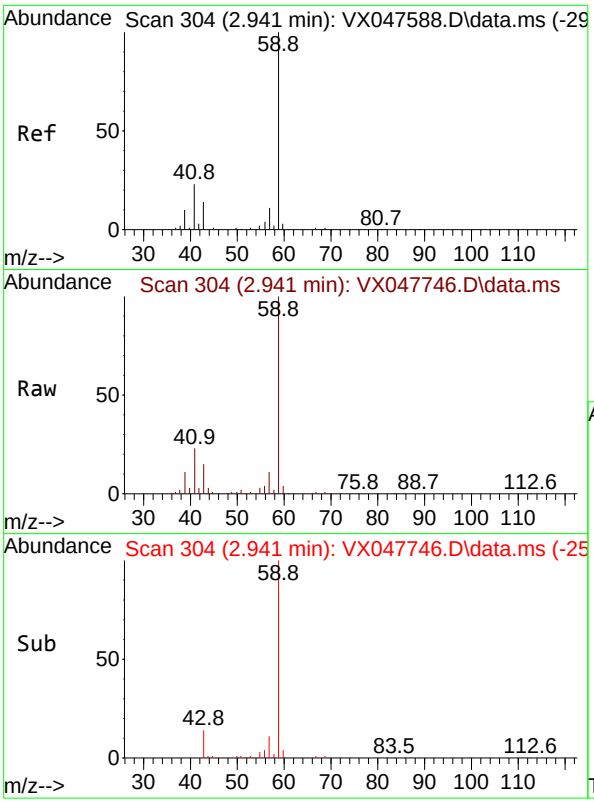


#10
Methyl Iodide
Concen: 53.098 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:142 Resp: 159713

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.1	11.4	17.0



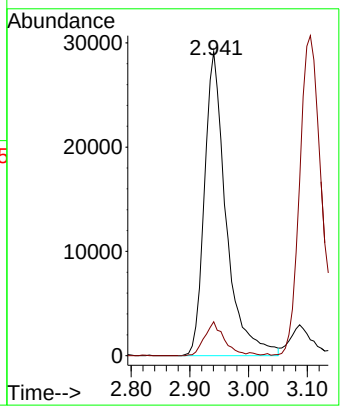


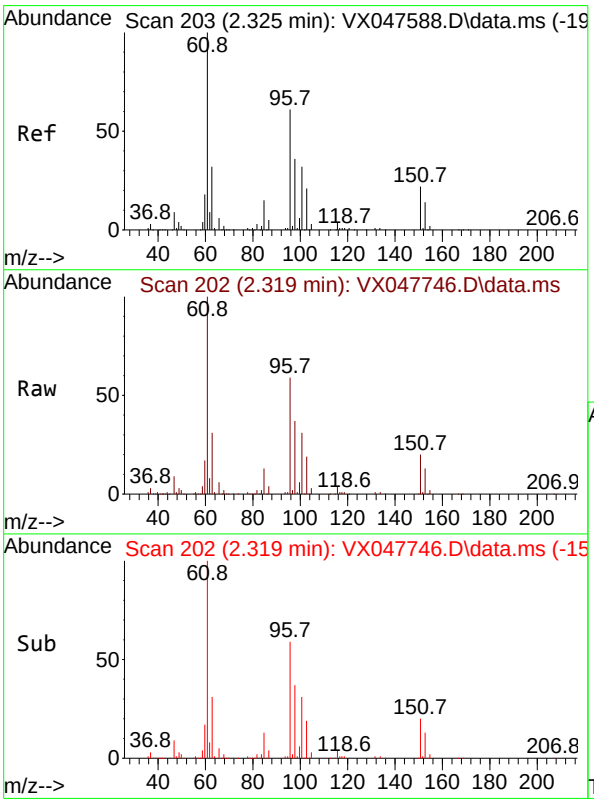
#11
Tert butyl alcohol
Concen: 252.518 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 74645

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

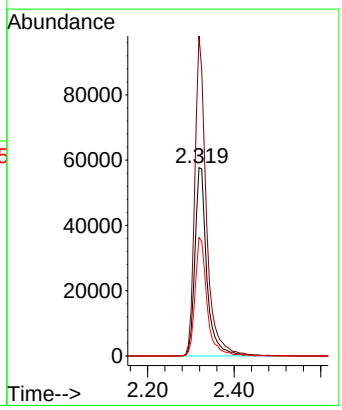


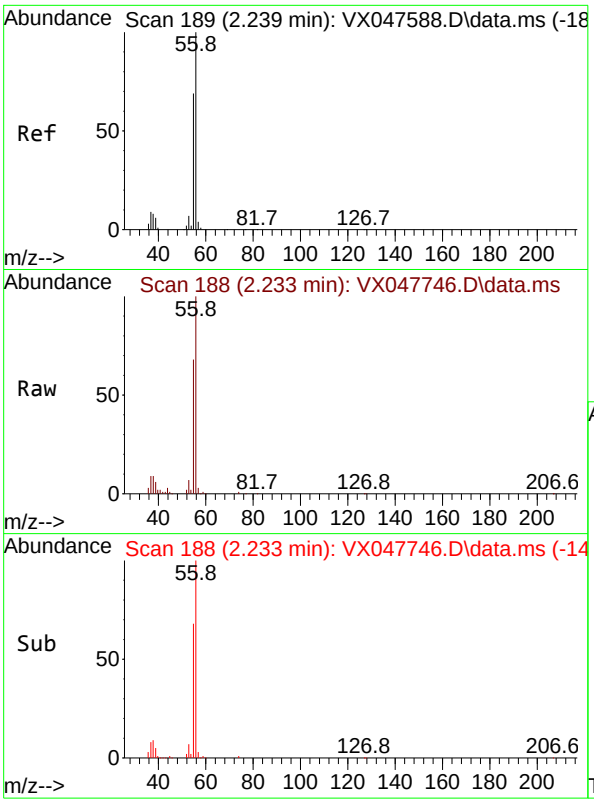


#12
1,1-Dichloroethene
Concen: 55.777 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 110500

Ion	Ratio	Lower	Upper
96	100		
61	169.9	131.0	196.6
98	62.9	47.7	71.5



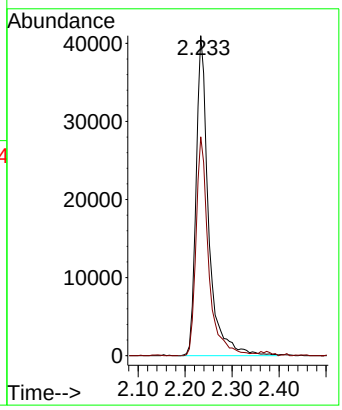


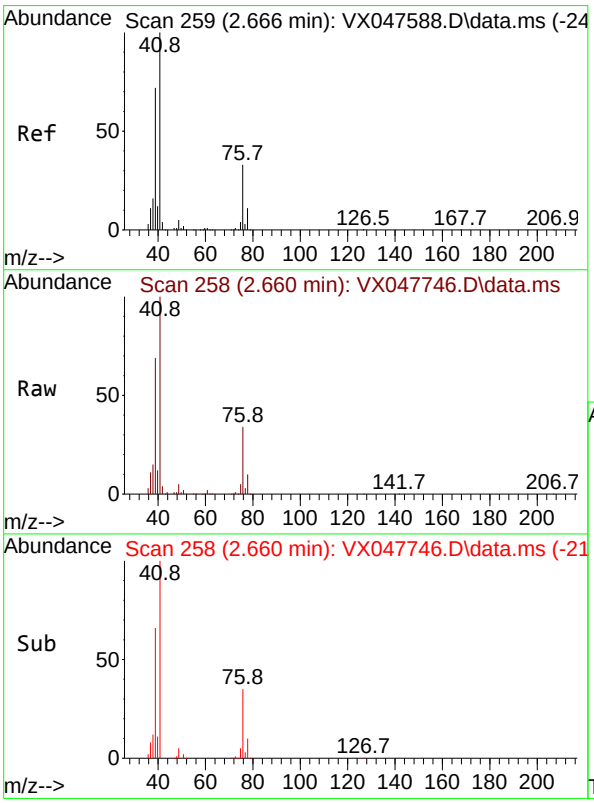
#13
Acrolein
Concen: 280.037 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 76283

Ion	Ratio	Lower	Upper
56	100		
55	68.8	57.2	85.8

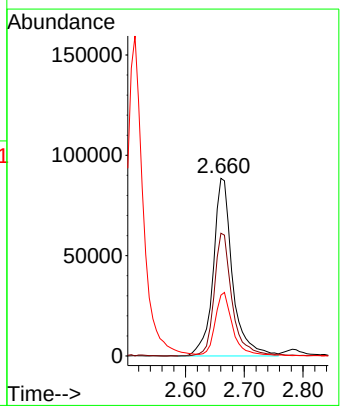


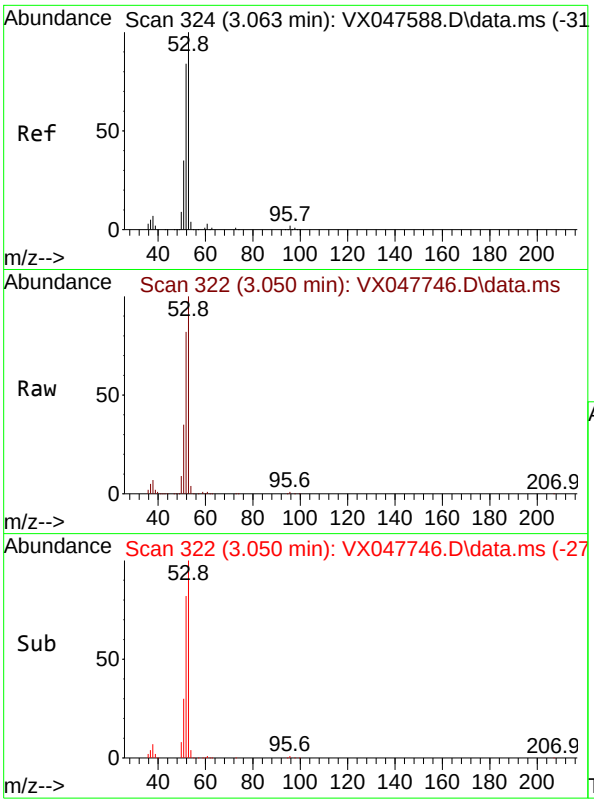


#14
Allyl chloride
Concen: 49.383 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 201882

Ion	Ratio	Lower	Upper
41	100		
39	64.8	54.7	82.1
76	32.5	25.7	38.5



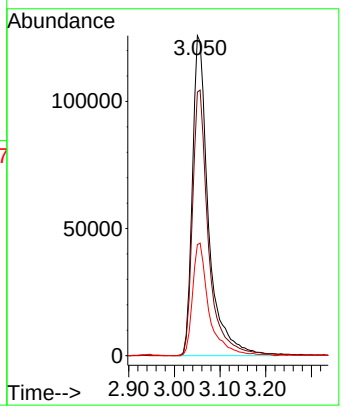


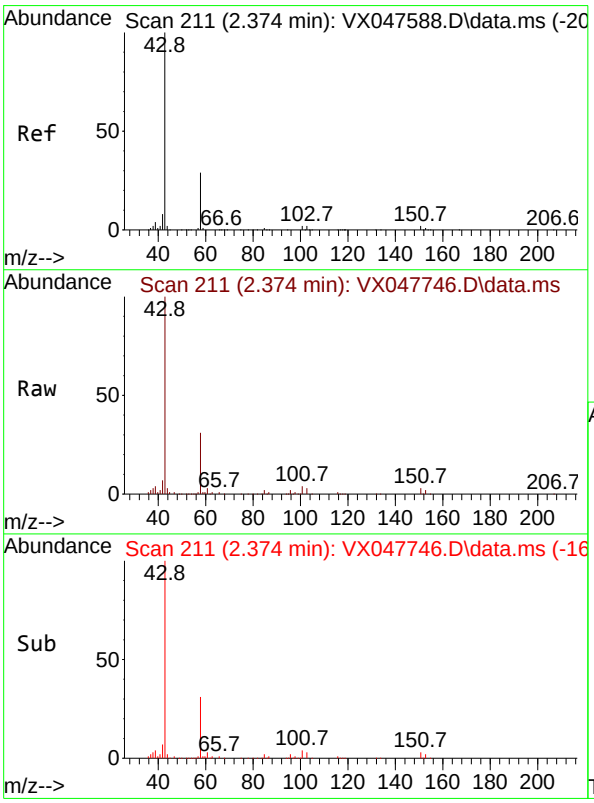
#15
Acrylonitrile
Concen: 281.629 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 308364

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.0	29.5	44.3

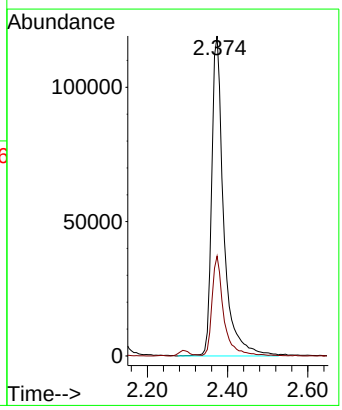


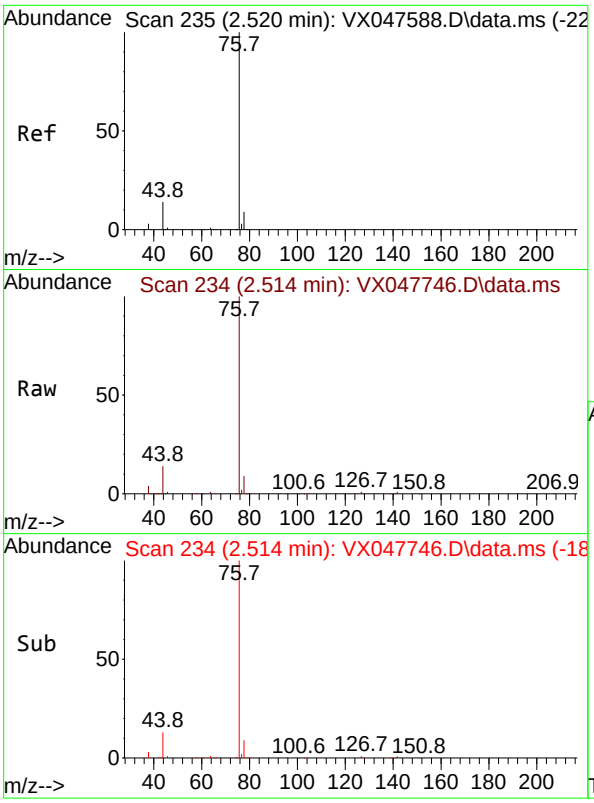


#16
Acetone
Concen: 214.945 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 248054

Ion	Ratio	Lower	Upper
43	100		
58	31.1	23.4	35.0



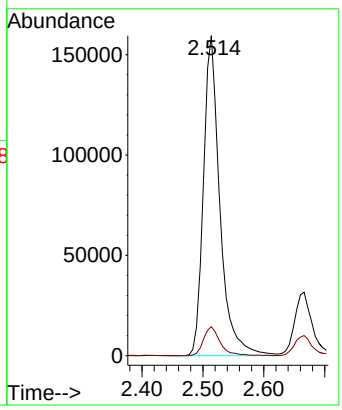


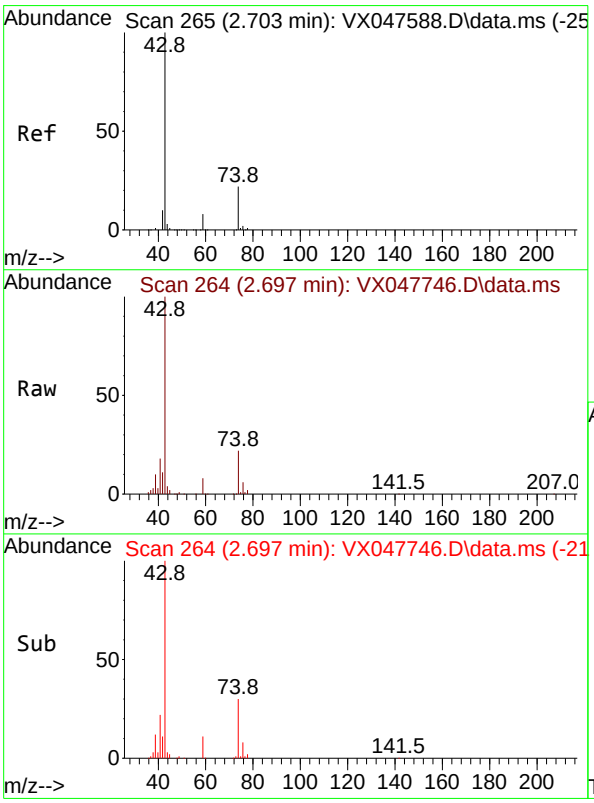
#17
Carbon Disulfide
Concen: 55.218 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 299474

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2

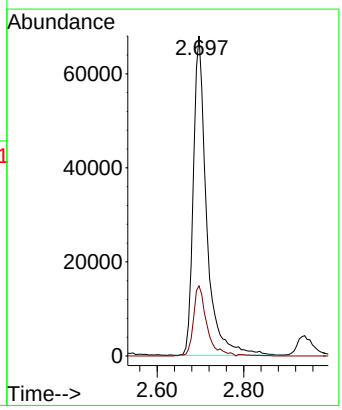


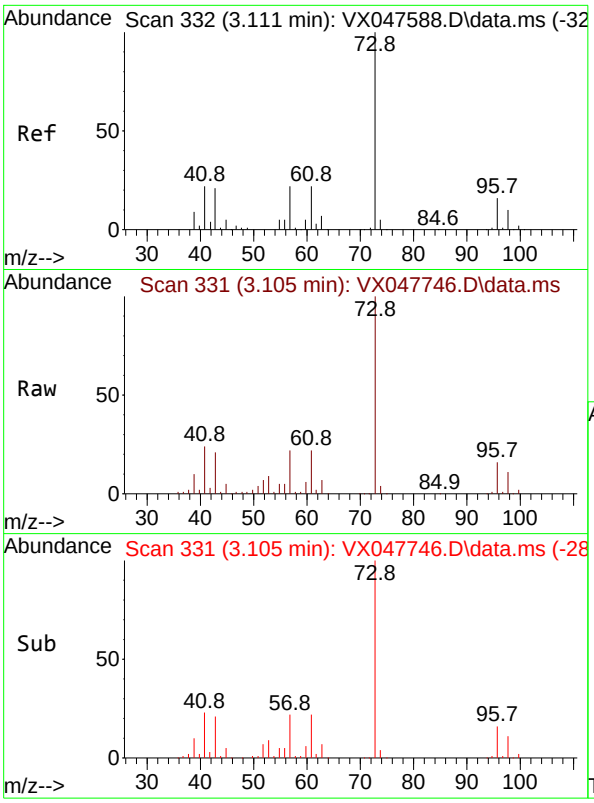


#18
Methyl Acetate
Concen: 56.326 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 144662

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



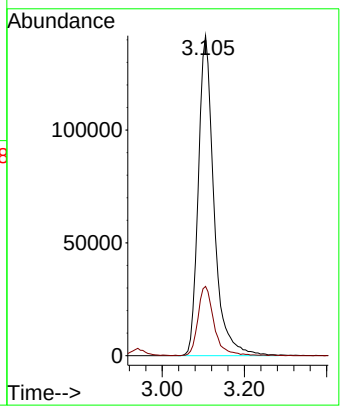


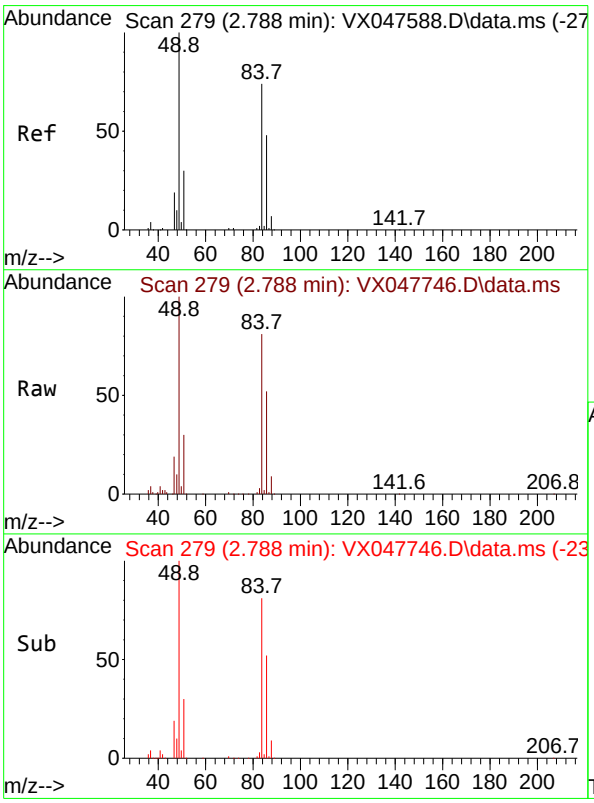
#19
Methyl tert-butyl Ether
Concen: 51.946 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 375666

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2

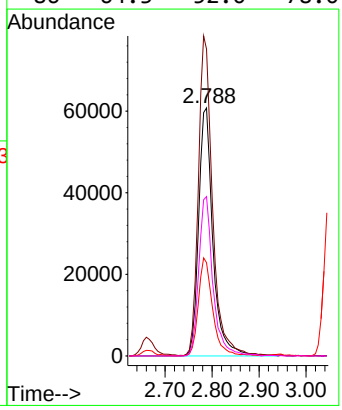


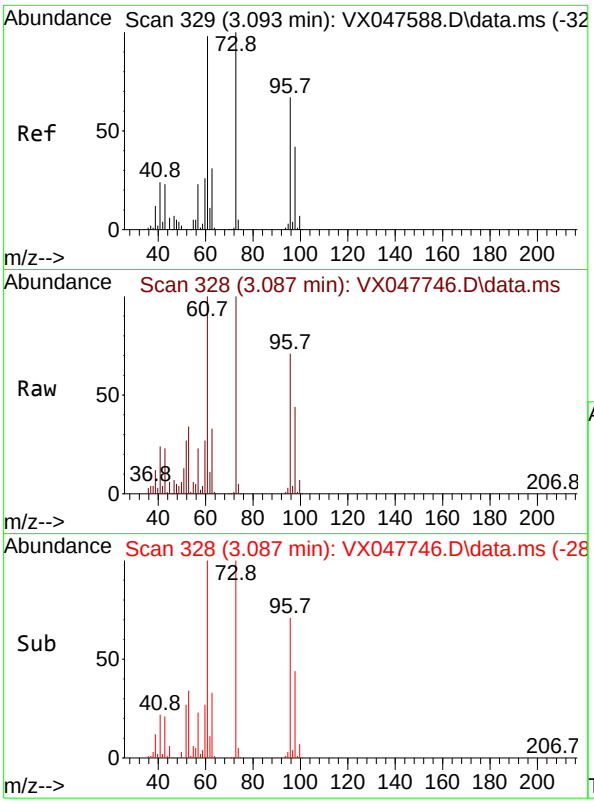


#20
Methylene Chloride
Concen: 52.632 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 84 Resp: 128569

Ion	Ratio	Lower	Upper
84	100		
49	123.6	108.6	162.8
51	37.5	32.6	48.8
86	64.3	52.0	78.0



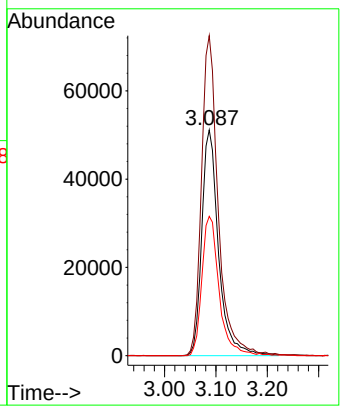


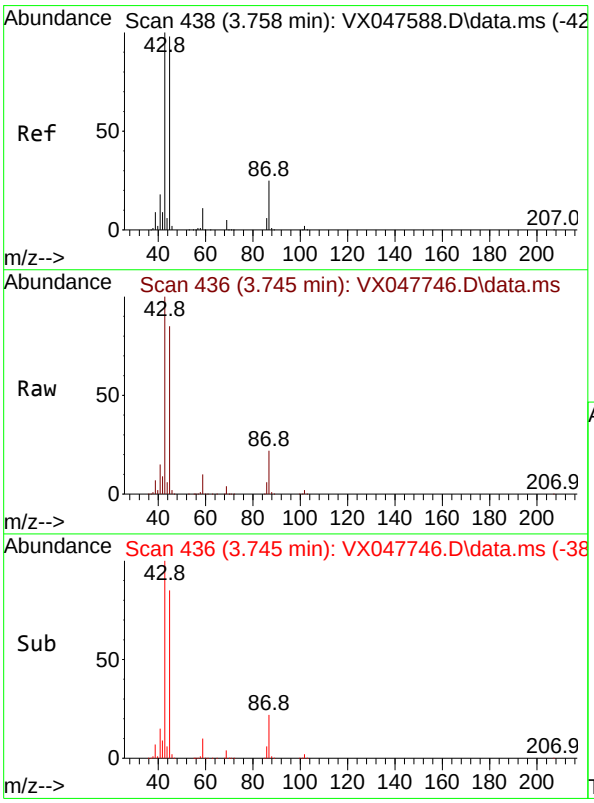
#21
trans-1,2-Dichloroethene
Concen: 54.315 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 115848

Ion	Ratio	Lower	Upper
96	100		
61	141.7	116.2	174.2
98	61.7	49.3	73.9

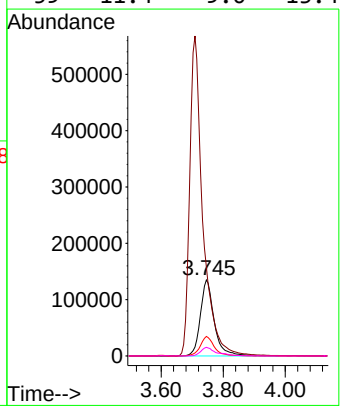


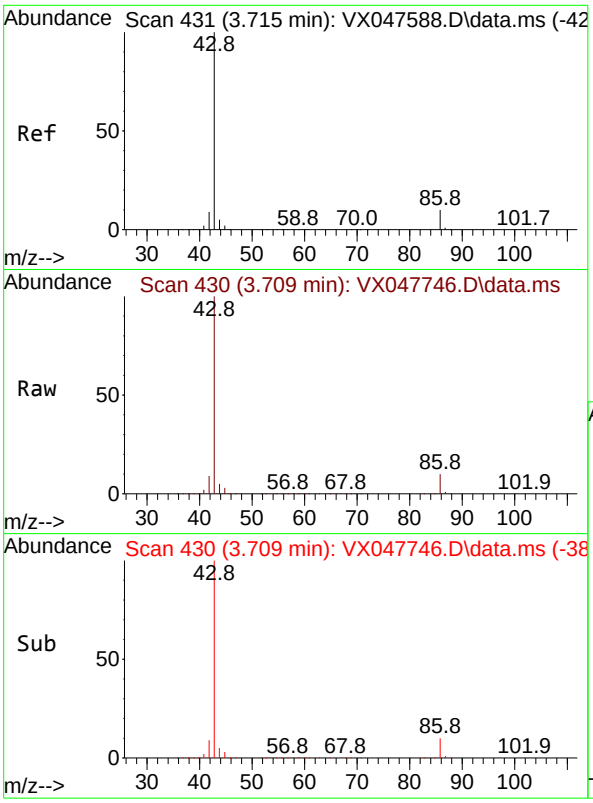


#22
Diisopropyl ether
Concen: 52.658 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 45 Resp: 417196

Ion	Ratio	Lower	Upper
45	100		
43	116.9	81.0	121.4
87	25.7	20.3	30.5
59	11.4	9.0	13.4



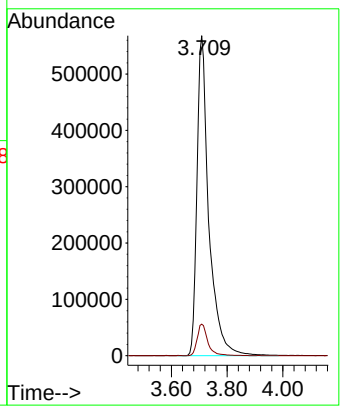


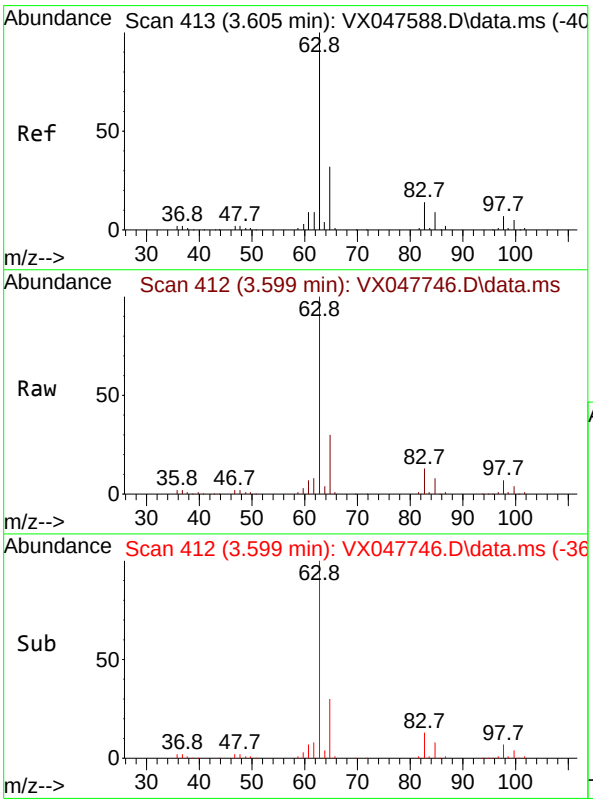
#23
Vinyl Acetate
Concen: 264.433 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1676763

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

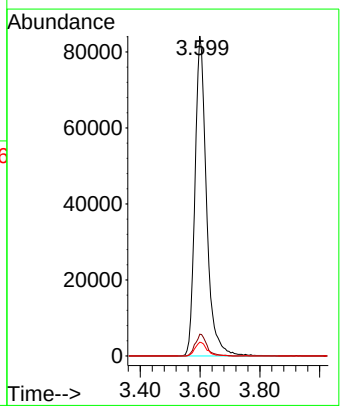


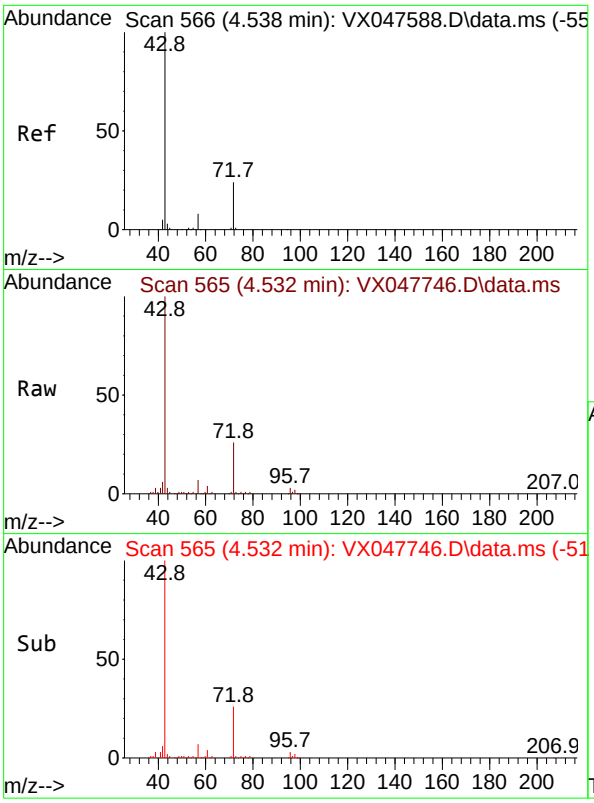


#24
1,1-Dichloroethane
Concen: 53.426 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 224981

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.4	2.3	6.9



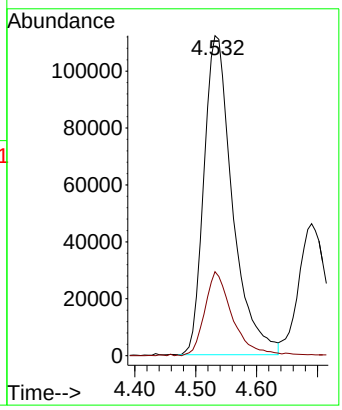


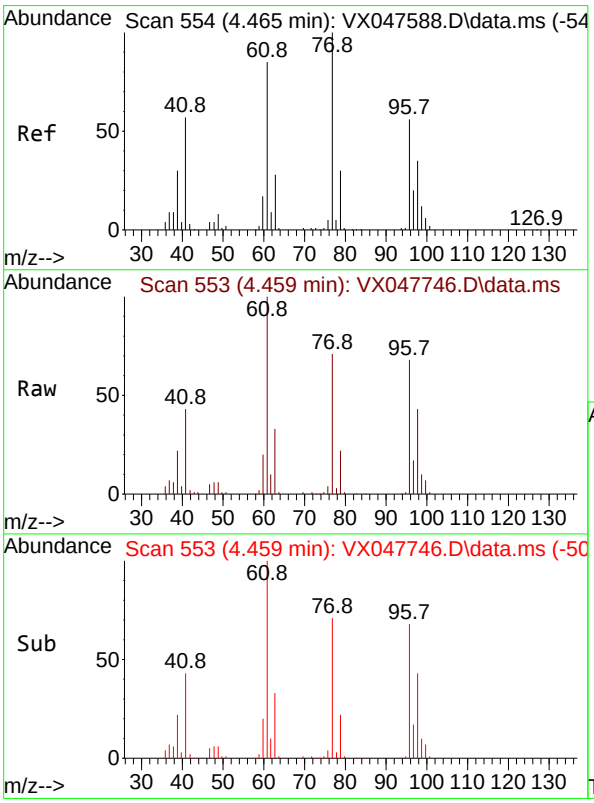
#25
2-Butanone
Concen: 253.647 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 365129

Ion	Ratio	Lower	Upper
43	100		
72	26.1	20.1	30.1

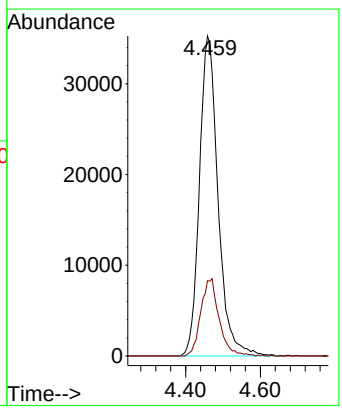


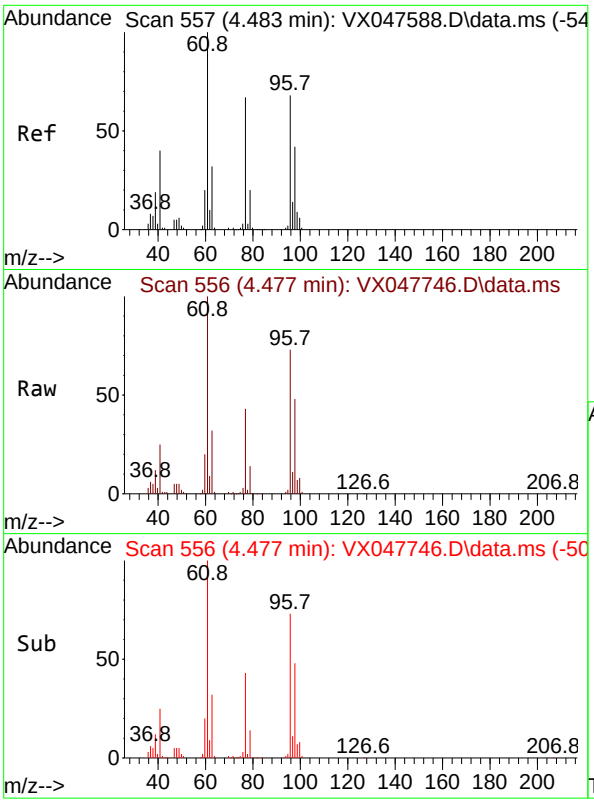


#26
2,2-Dichloropropane
Concen: 34.769 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 77 Resp: 121706

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7



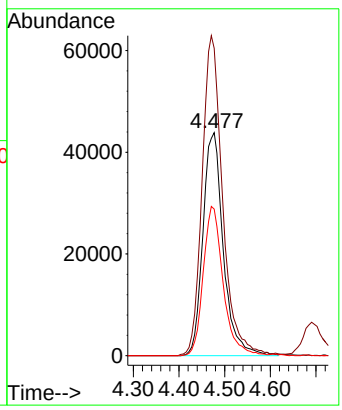


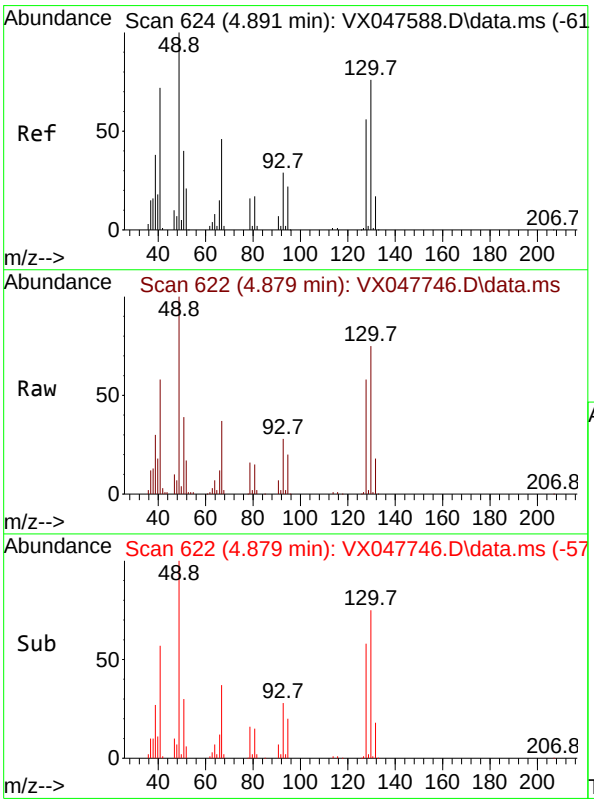
#27
cis-1,2-Dichloroethene
Concen: 52.016 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 135871

Ion	Ratio	Lower	Upper
96	100		
61	144.0	0.0	303.2
98	65.3	0.0	127.8

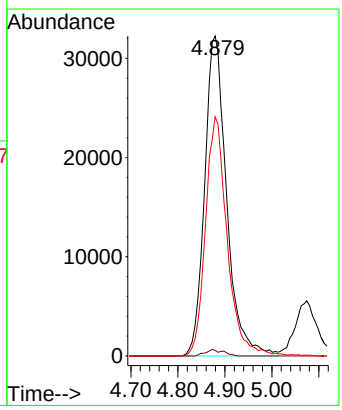


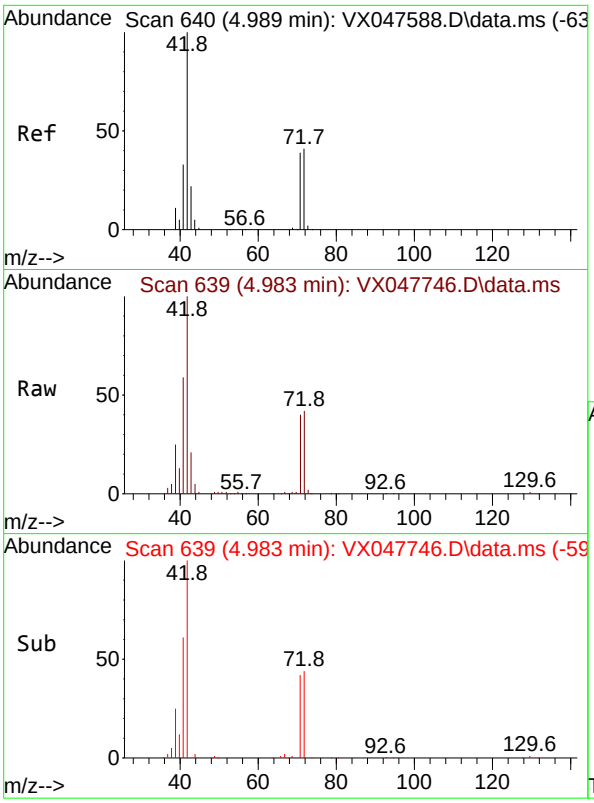


#28
Bromochloromethane
Concen: 57.010 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 49 Resp: 104808

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	73.8	57.8	86.8



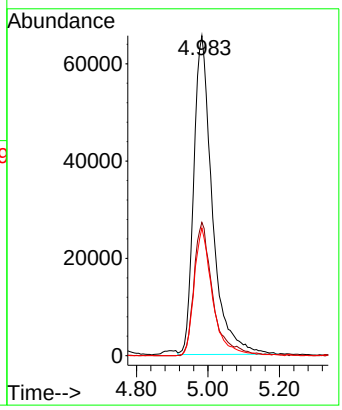


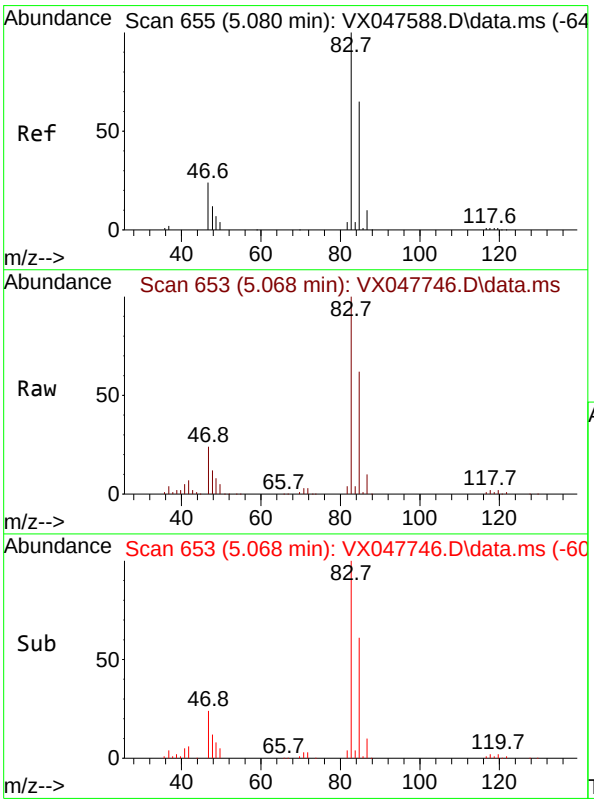
#29
Tetrahydrofuran
Concen: 272.674 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 236130

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.6	31.9	47.9

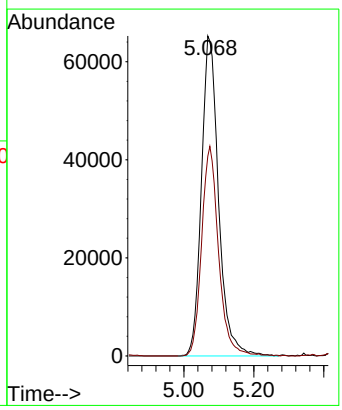


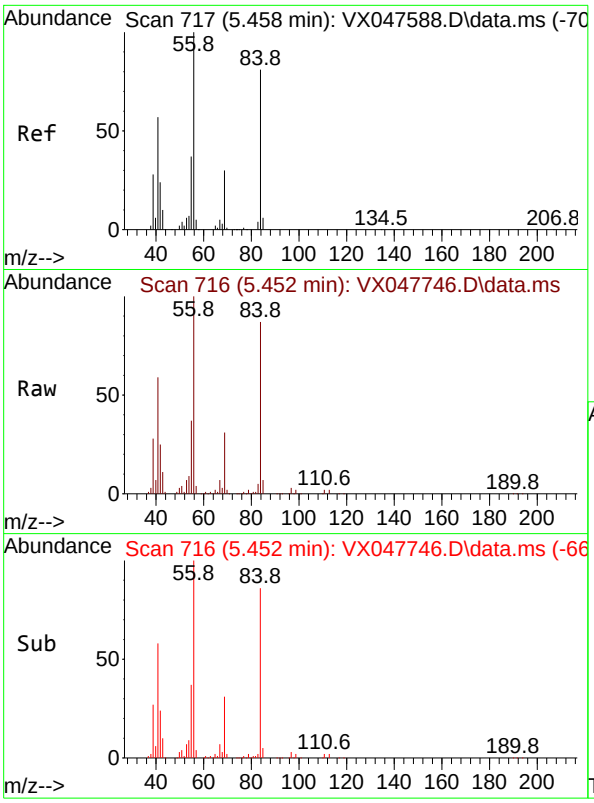


#30
Chloroform
Concen: 52.050 ug/l
RT: 5.068 min Scan# 653
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 221493

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.8	77.6



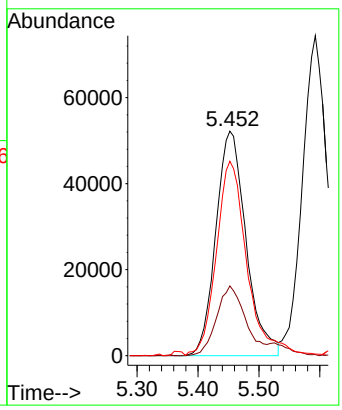


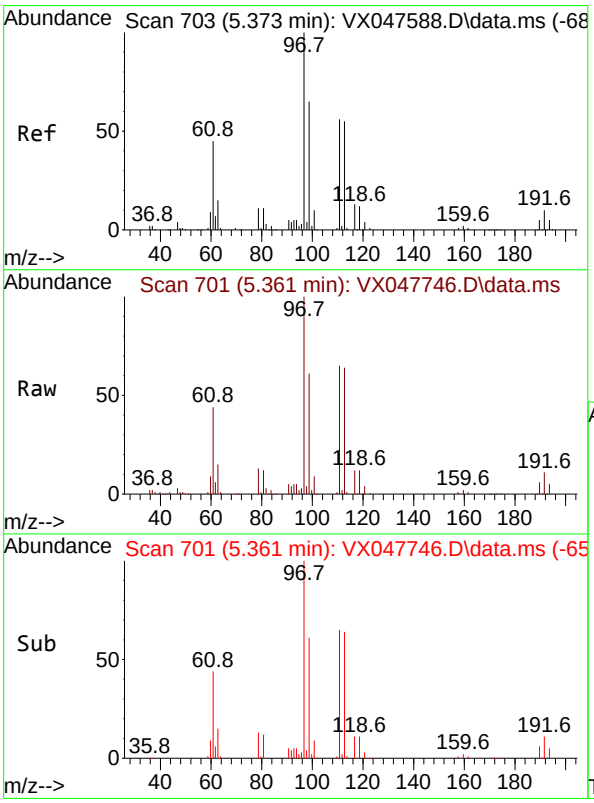
#31
Cyclohexane
Concen: 51.224 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 179654

Ion	Ratio	Lower	Upper
56	100		
69	30.8	23.8	35.8
84	84.7	64.6	97.0

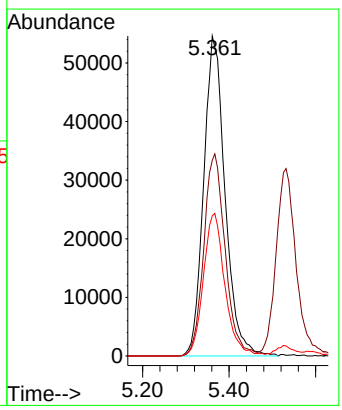


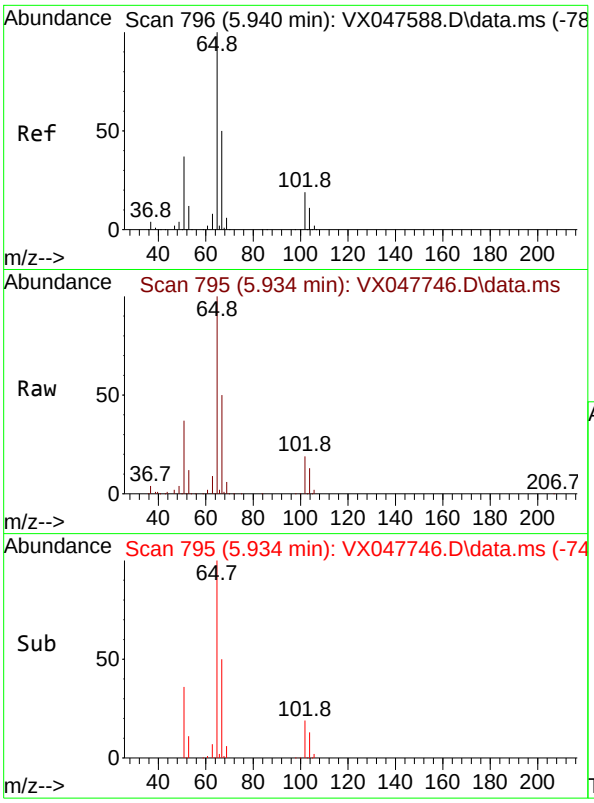


#32
1,1,1-Trichloroethane
Concen: 51.890 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 97 Resp: 187296

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	44.8	35.8	53.8



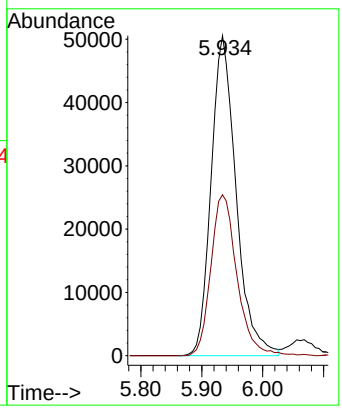


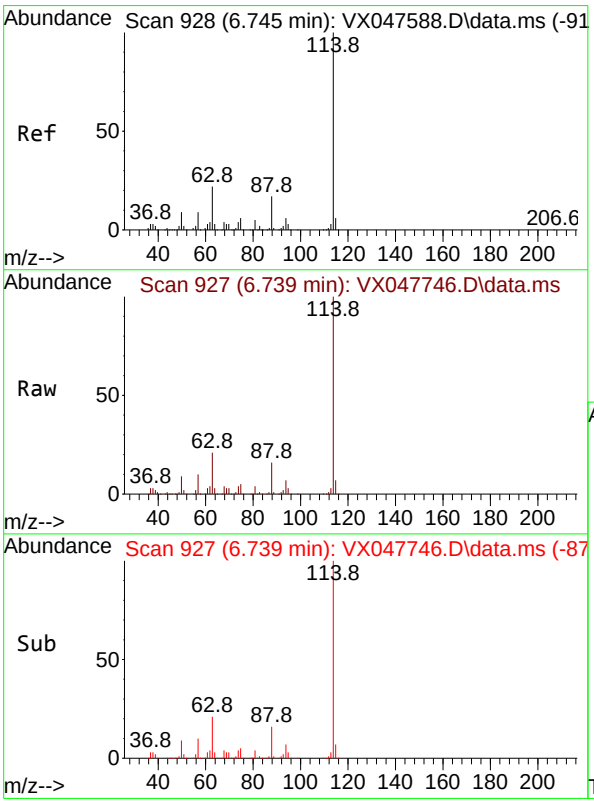
#33
1,2-Dichloroethane-d4
Concen: 54.210 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 143883

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0

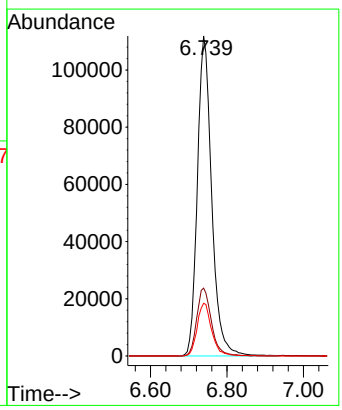


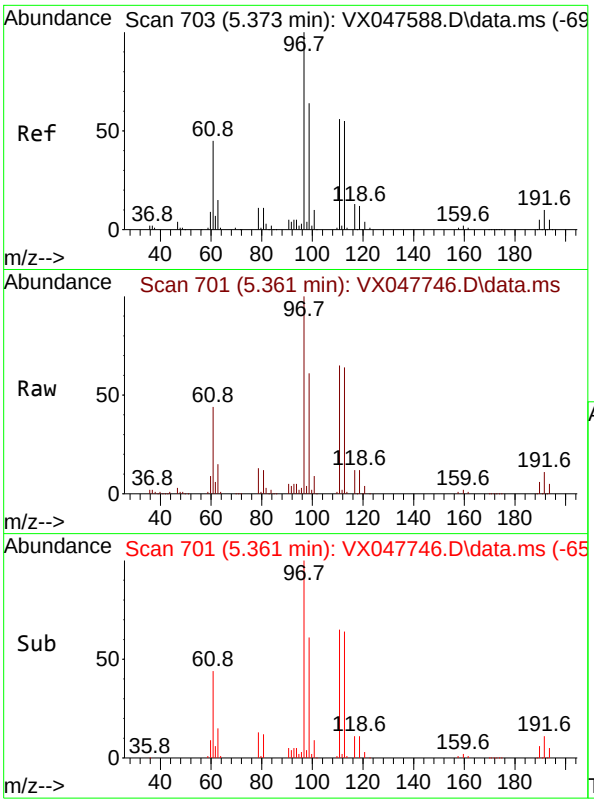


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:114 Resp: 290663

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.4	0.0	34.2



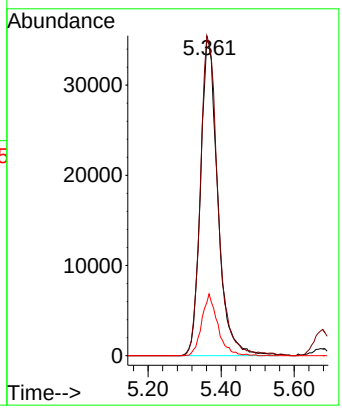


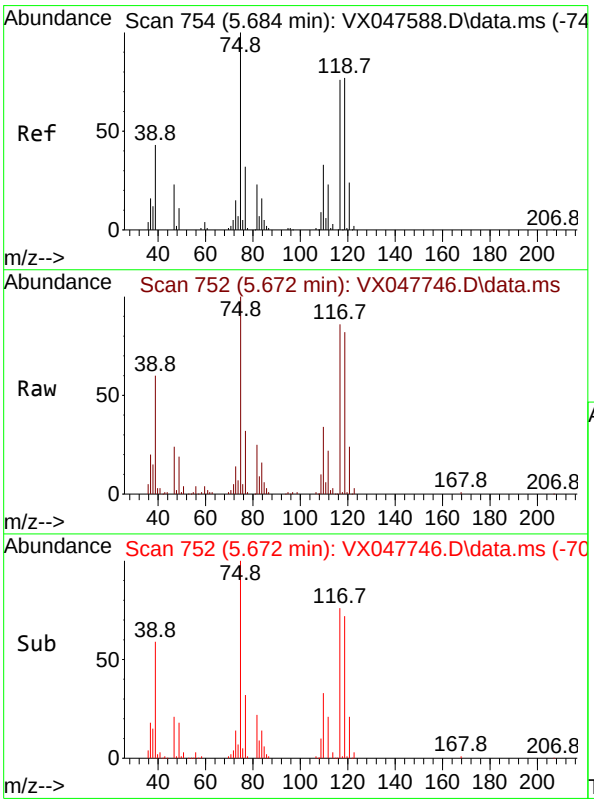
#35
Dibromofluoromethane
Concen: 59.312 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 115620

Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.9	121.3
192	17.9	14.2	21.4

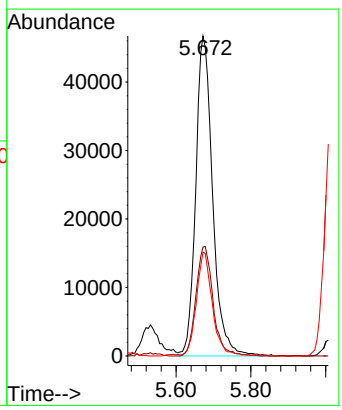


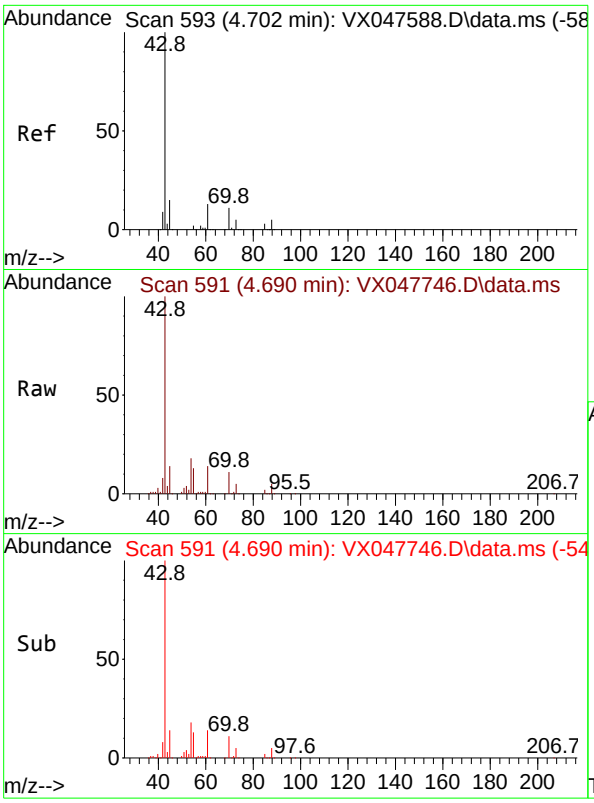


#36
1,1-Dichloropropene
Concen: 51.432 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 146503

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5



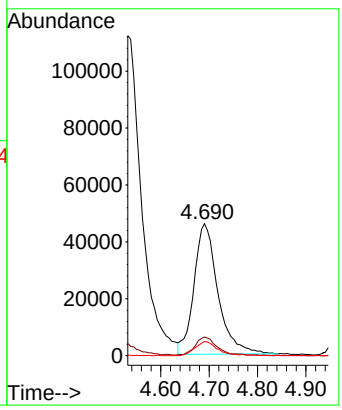


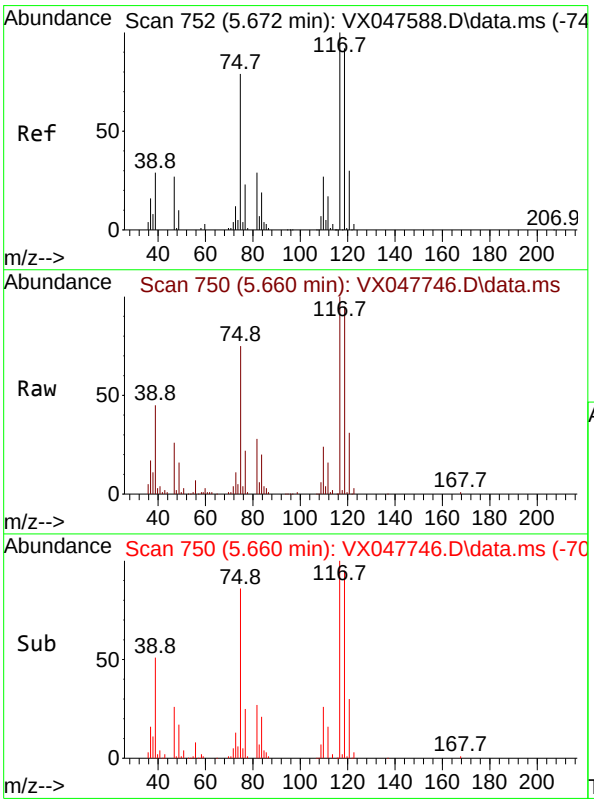
#37
Ethyl Acetate
Concen: 51.660 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 157558

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.8	14.8
70	10.4	7.9	11.9

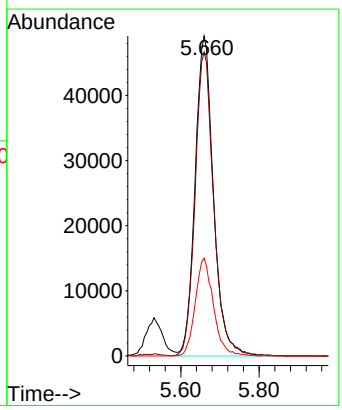


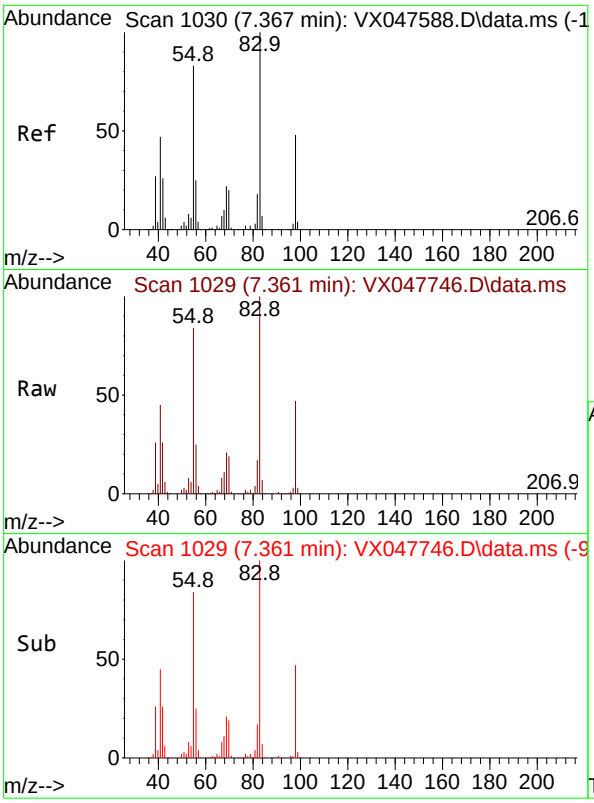


#38
Carbon Tetrachloride
Concen: 51.986 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 160891

Ion	Ratio	Lower	Upper
117	100		
119	94.8	73.4	110.2
121	30.6	23.8	35.6



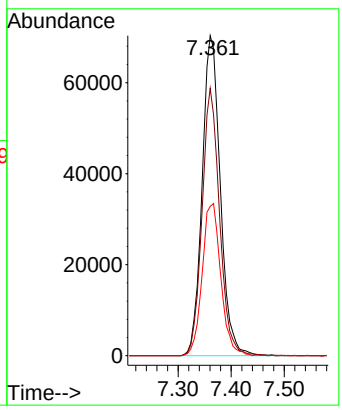


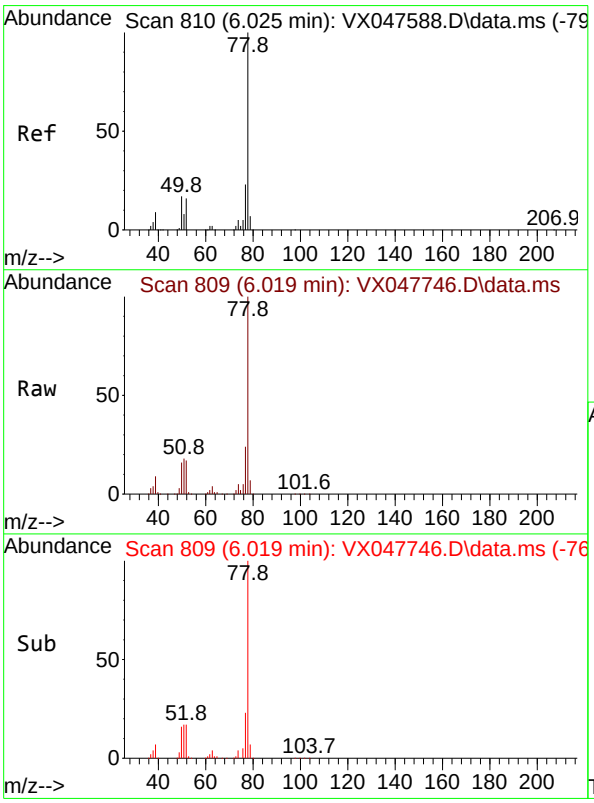
#39
Methylcyclohexane
Concen: 51.777 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 167414

Ion	Ratio	Lower	Upper
83	100		
55	83.5	66.4	99.6
98	46.6	38.1	57.1

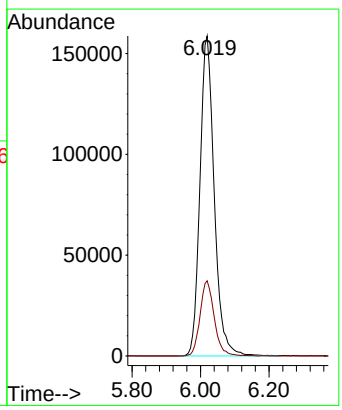


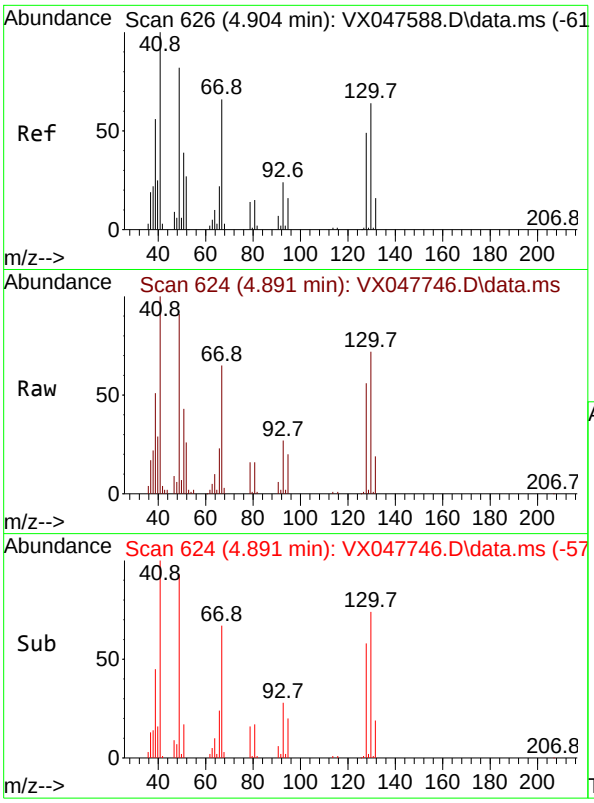


#40
Benzene
Concen: 53.223 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 78 Resp: 460455

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



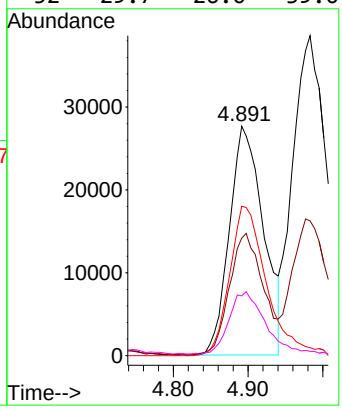


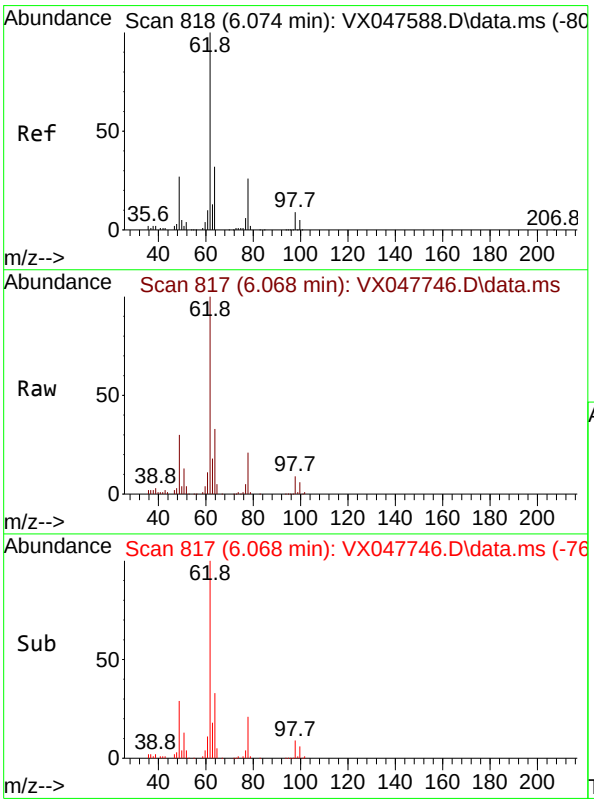
#41
Methacrylonitrile
Concen: 55.742 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 87766

Ion	Ratio	Lower	Upper
41	100		
39	53.4	43.3	64.9
67	70.6	58.6	87.8
52	29.7	26.0	39.0

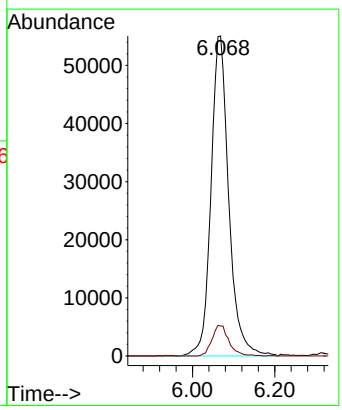


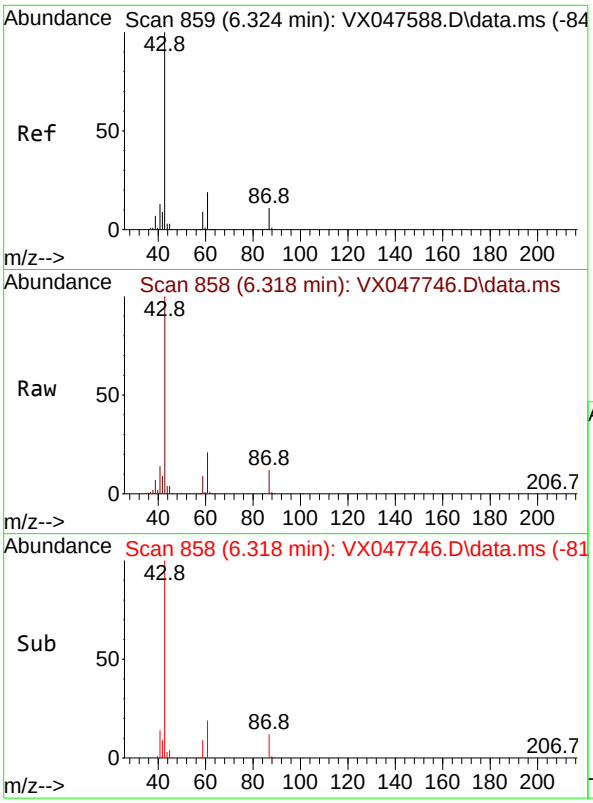


#42
1,2-Dichloroethane
Concen: 50.209 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 165276

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0



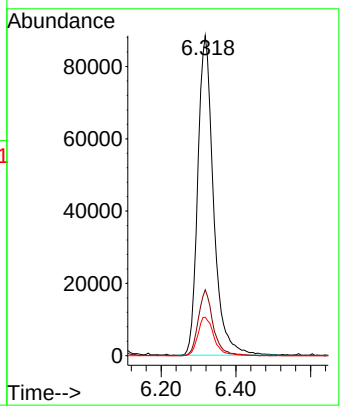


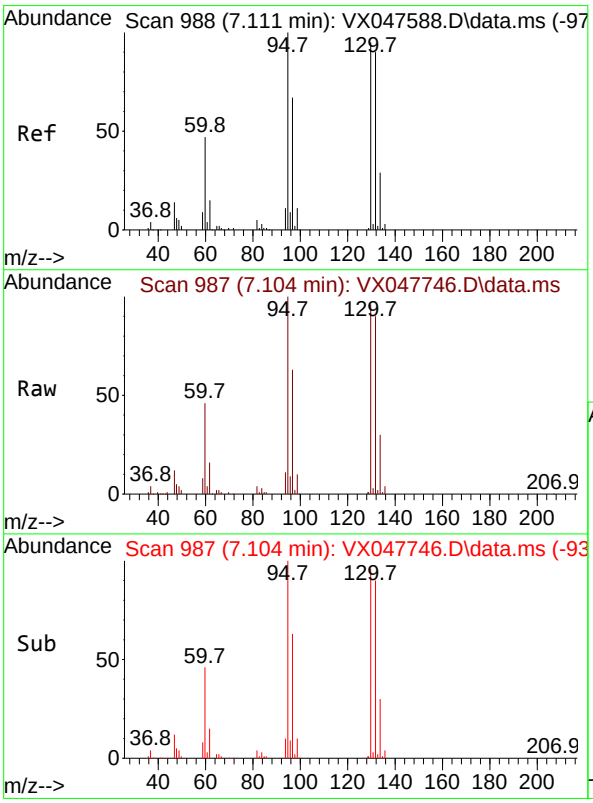
#43
Isopropyl Acetate
Concen: 51.528 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 257745

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.2	22.8
87	12.4	9.6	14.4

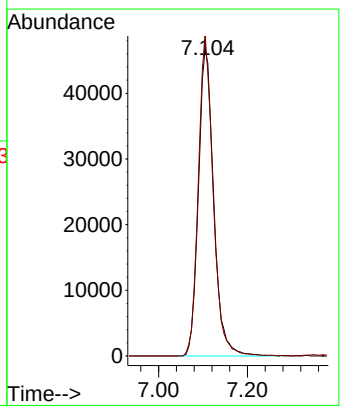


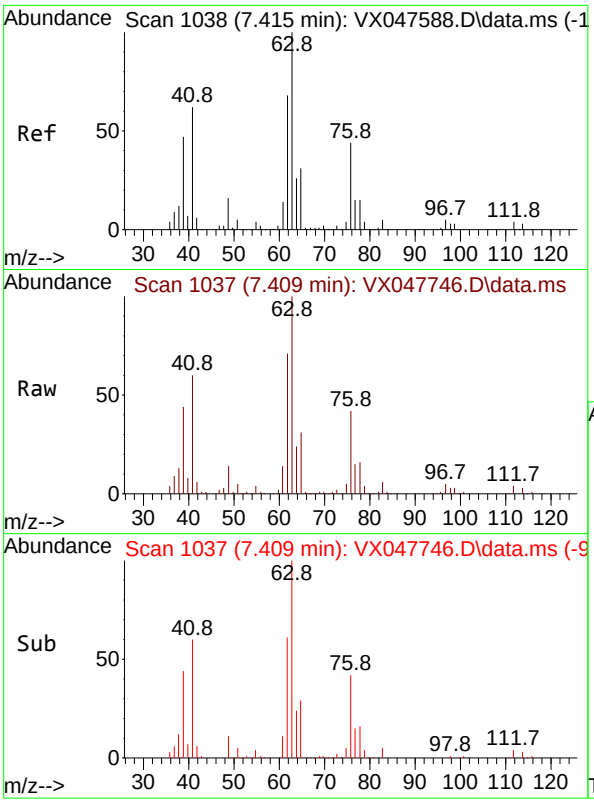


#44
Trichloroethene
Concen: 53.736 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:130 Resp: 112394

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	210.8



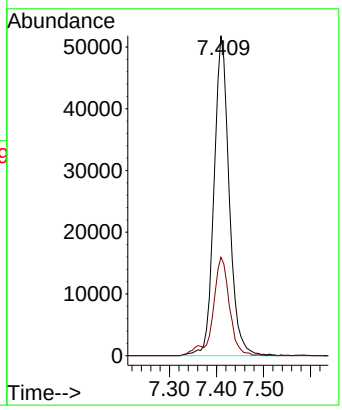


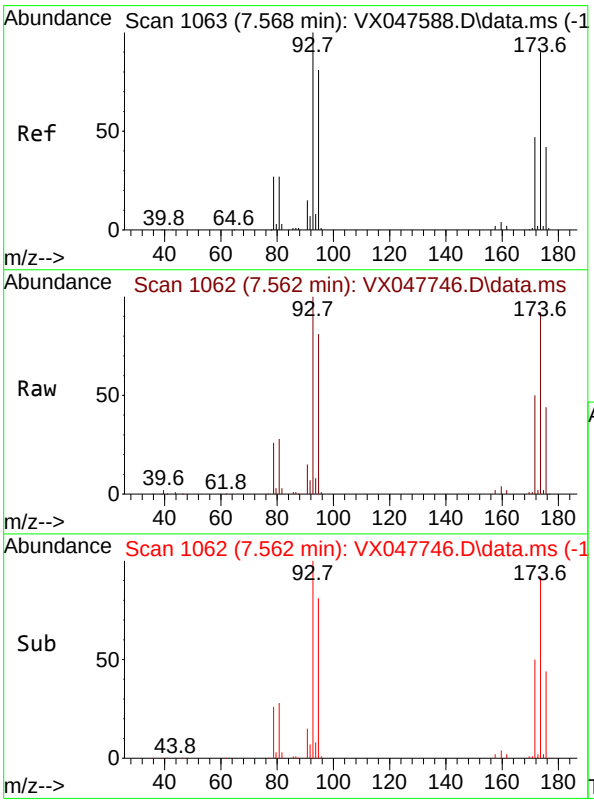
#45
1,2-Dichloropropane
Concen: 52.565 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 116449

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

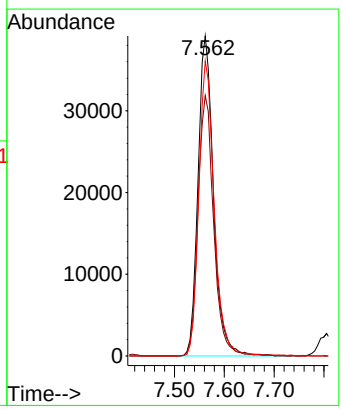


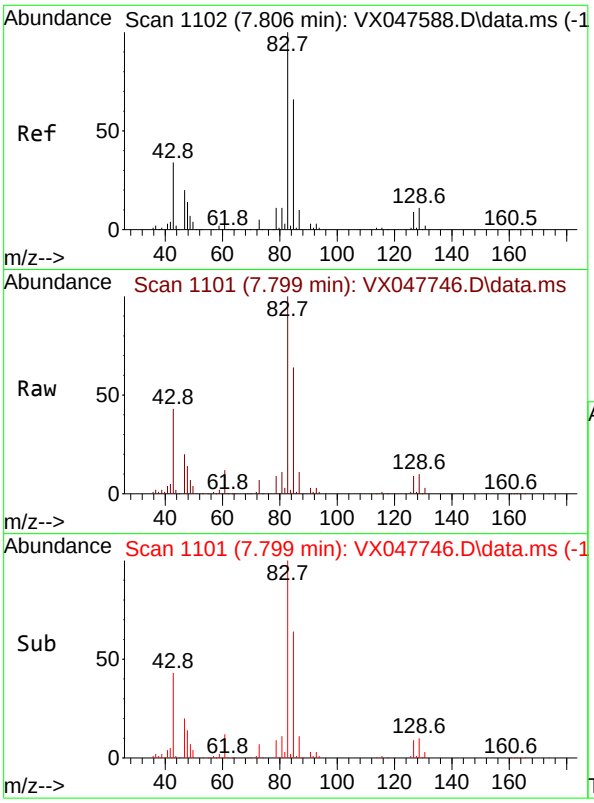


#46
Dibromomethane
Concen: 52.418 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 93 Resp: 84502

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.0	97.6
174	91.4	71.6	107.4



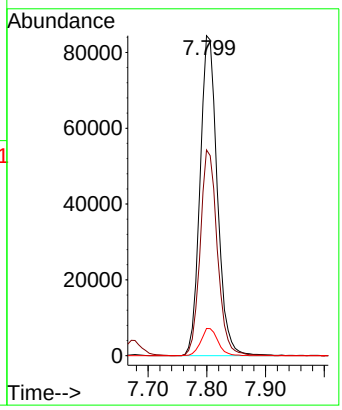


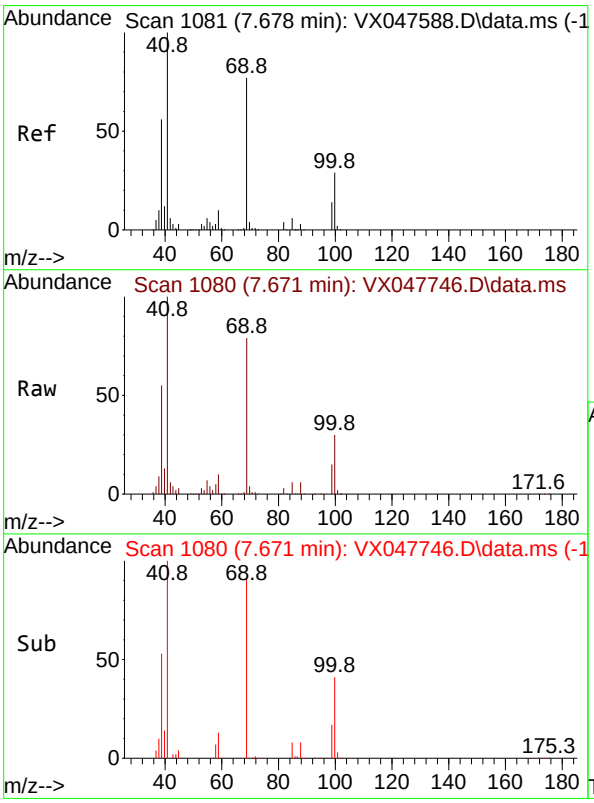
#47
Bromodichloromethane
Concen: 51.915 ug/l
RT: 7.799 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 172703

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
127	8.5	6.9	10.3

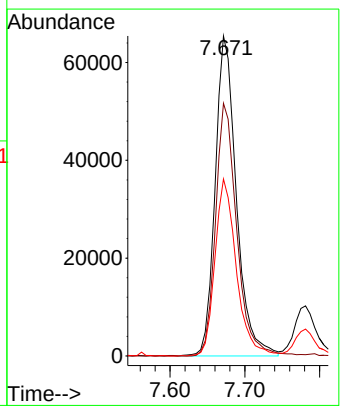


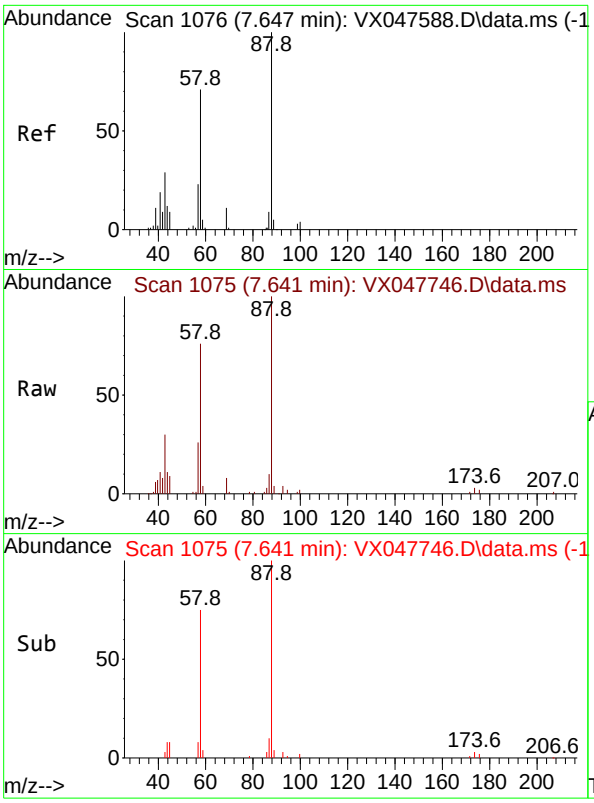


#48
Methyl methacrylate
Concen: 51.974 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 129497

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.9	45.8	68.6



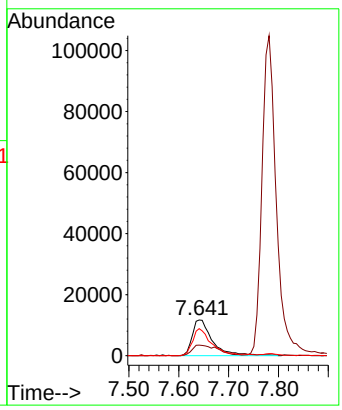


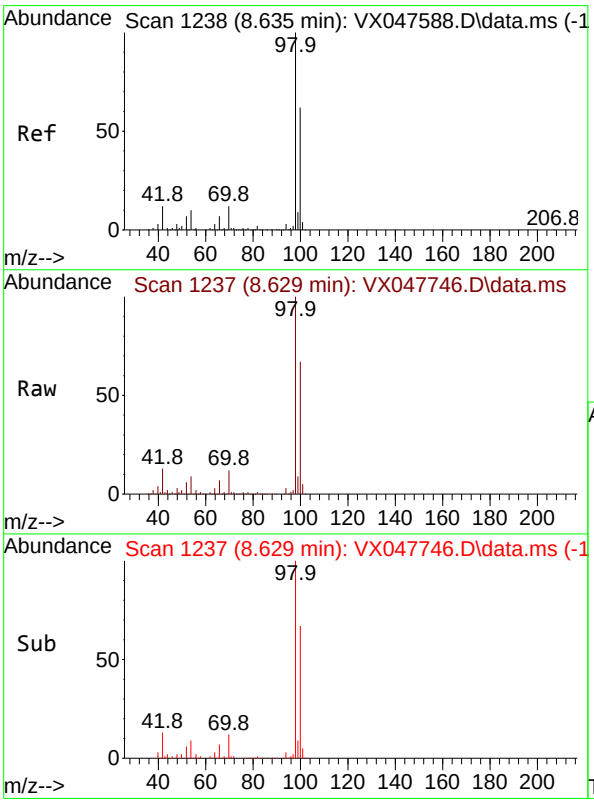
#49
1,4-Dioxane
Concen: 1306.764 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 32904

Ion	Ratio	Lower	Upper
88	100		
43	38.2	30.2	45.2
58	73.3	59.5	89.3

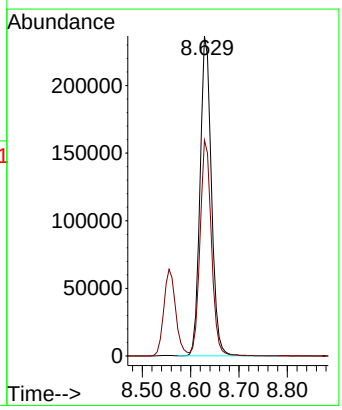


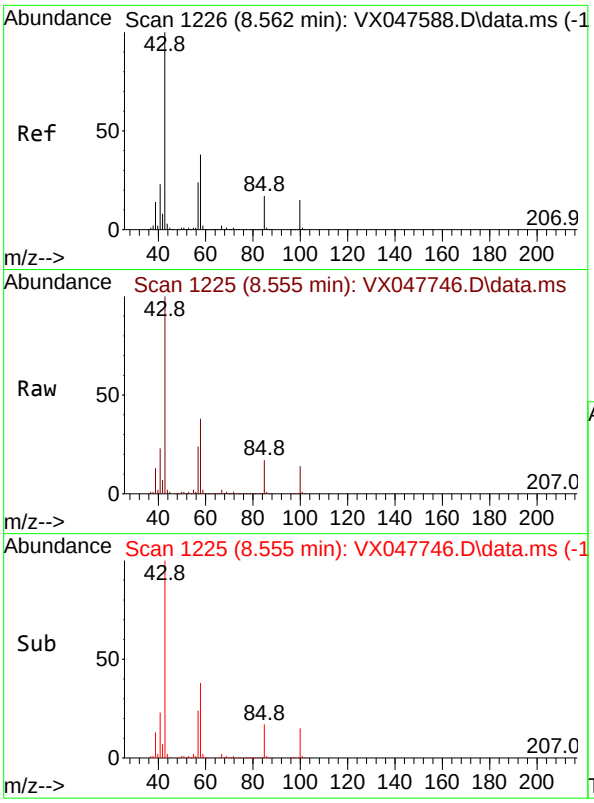


#50
Toluene-d8
Concen: 57.106 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 98 Resp: 385188

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4



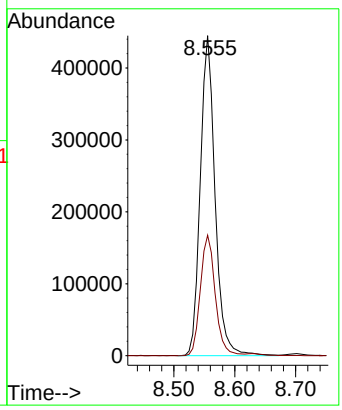


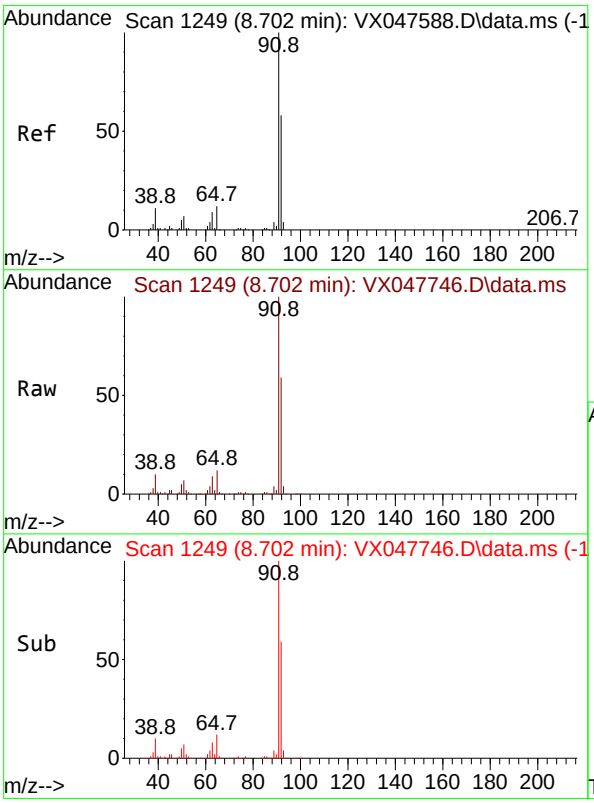
#51
4-Methyl-2-Pentanone
Concen: 270.171 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 749272

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

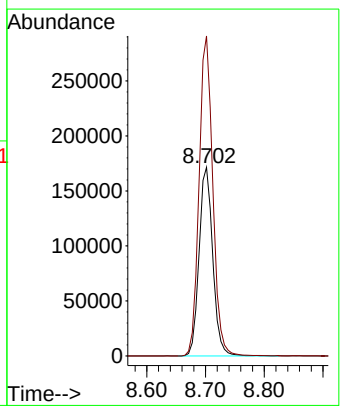


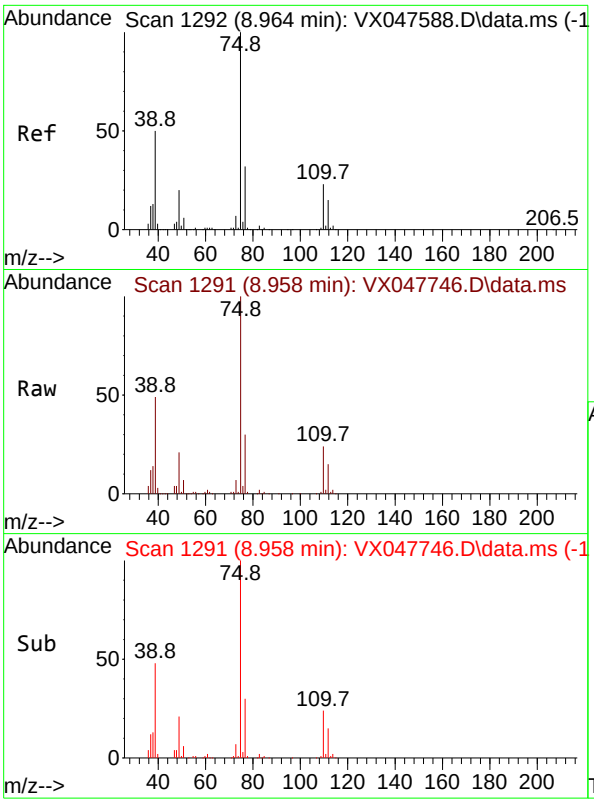


#52
Toluene
Concen: 51.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 92 Resp: 276160

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7



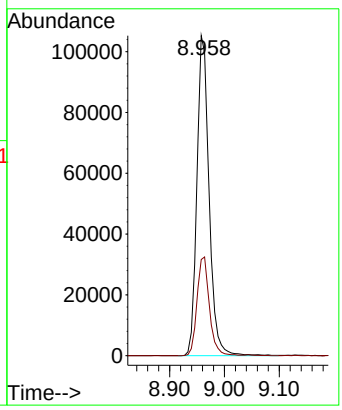


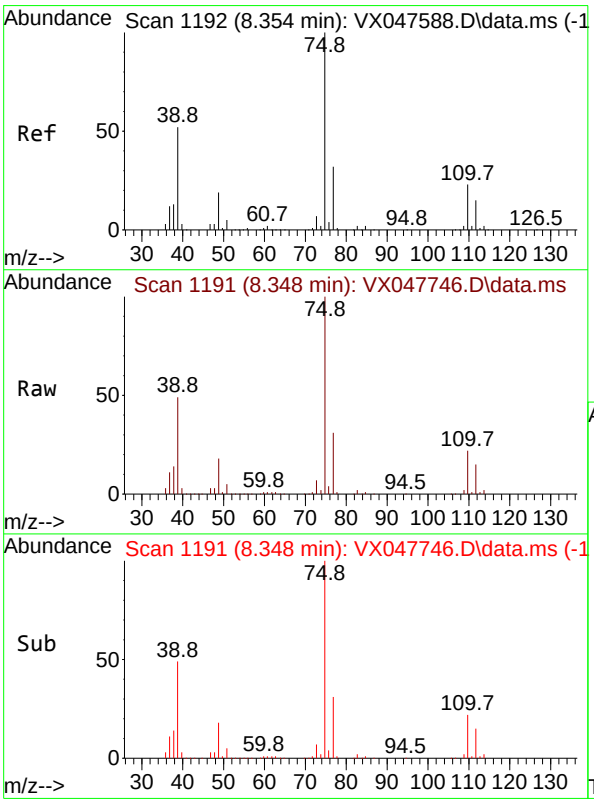
#53
t-1,3-Dichloropropene
Concen: 48.037 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 163001

Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.4	38.2

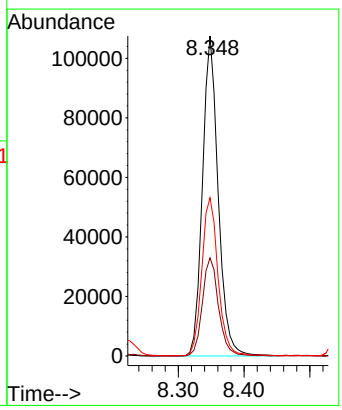


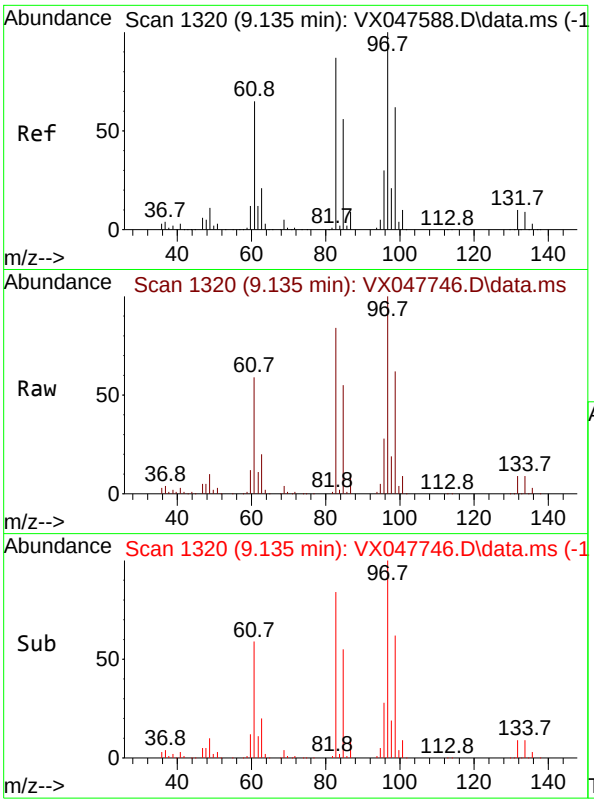


#54
cis-1,3-Dichloropropene
Concen: 49.218 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 178505

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.6
39	48.9	41.4	62.2



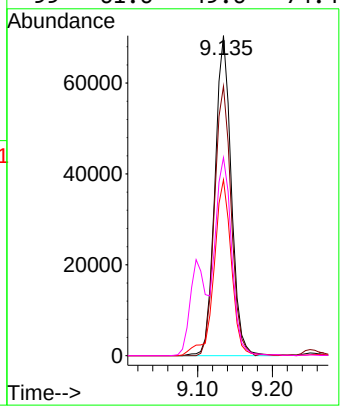


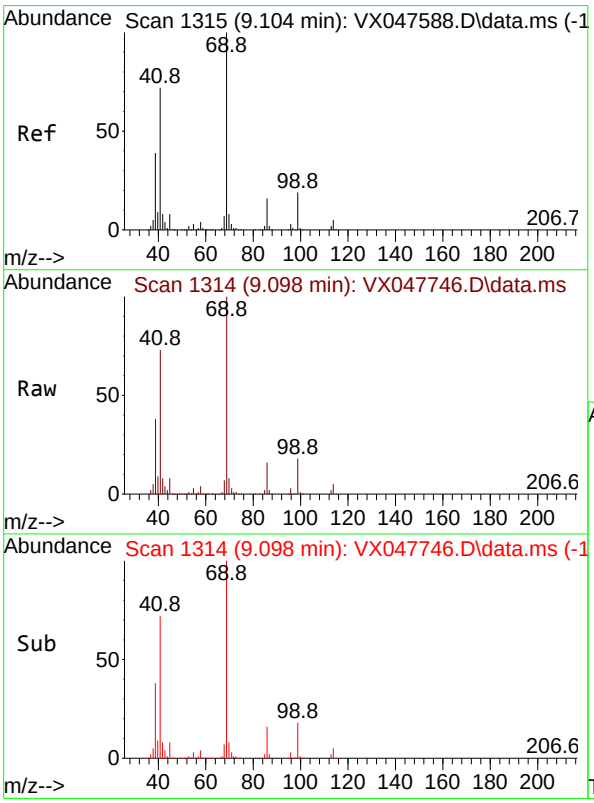
#55
1,1,2-Trichloroethane
Concen: 52.187 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 107258

Ion	Ratio	Lower	Upper
97	100		
83	84.2	69.6	104.4
85	55.0	45.0	67.6
99	61.6	49.6	74.4

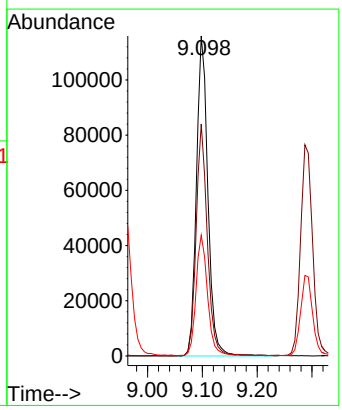


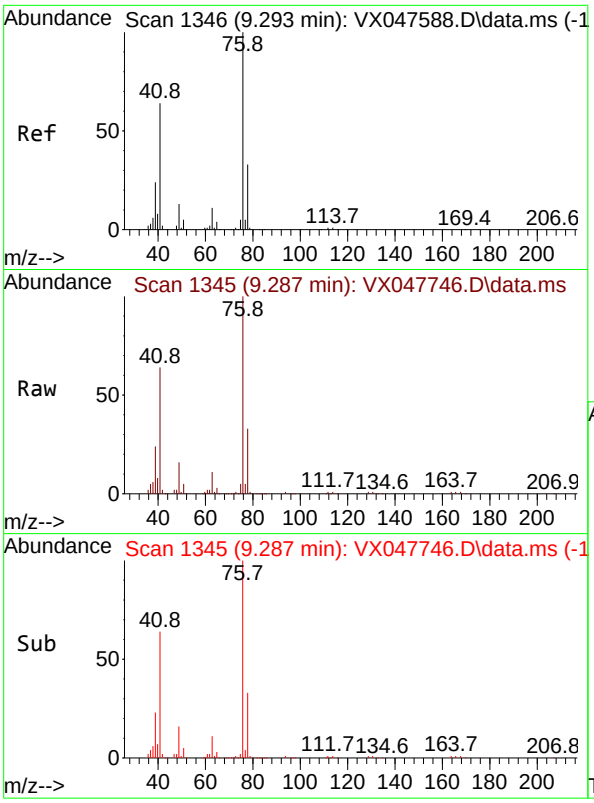


#56
Ethyl methacrylate
Concen: 52.534 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 69 Resp: 169567

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.8	31.5	47.3



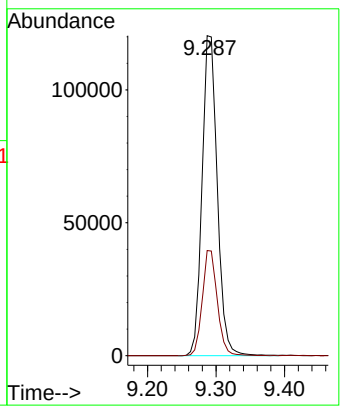


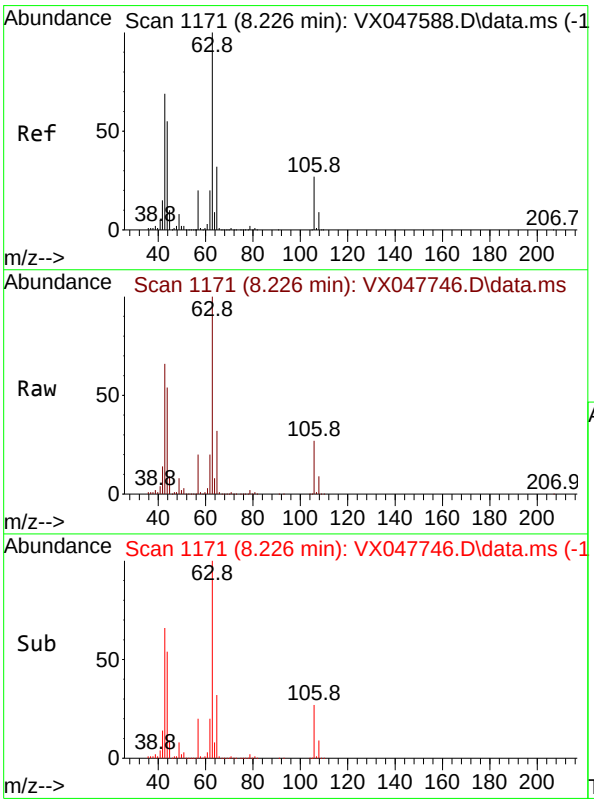
#57
1,3-Dichloropropane
Concen: 52.699 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 186062

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4

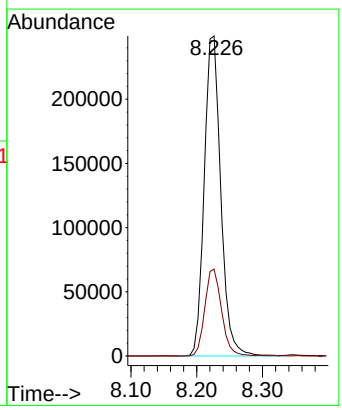


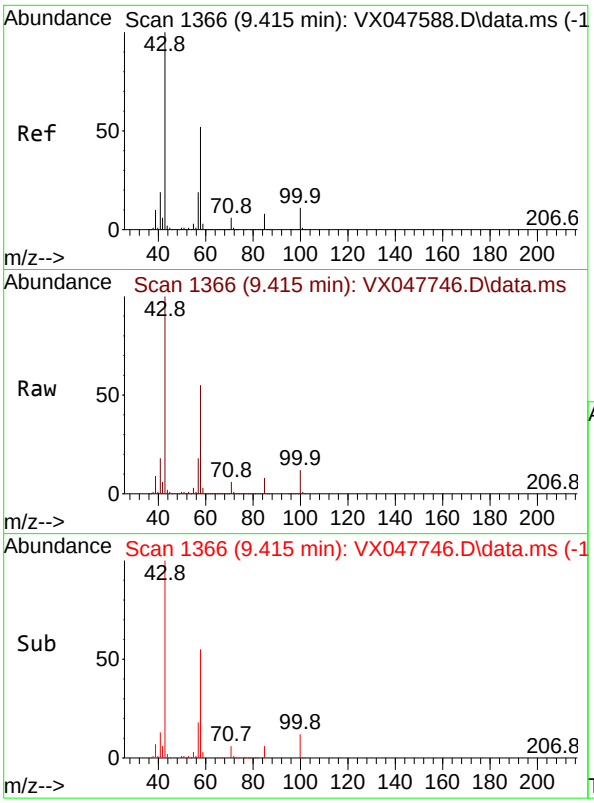


#58
2-Chloroethyl Vinyl ether
Concen: 280.568 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 436211

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



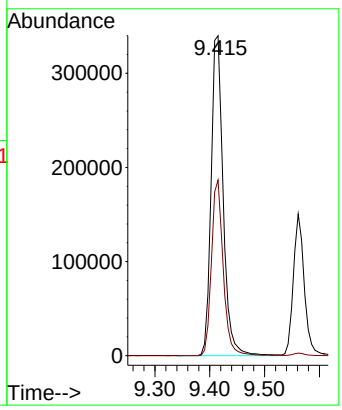


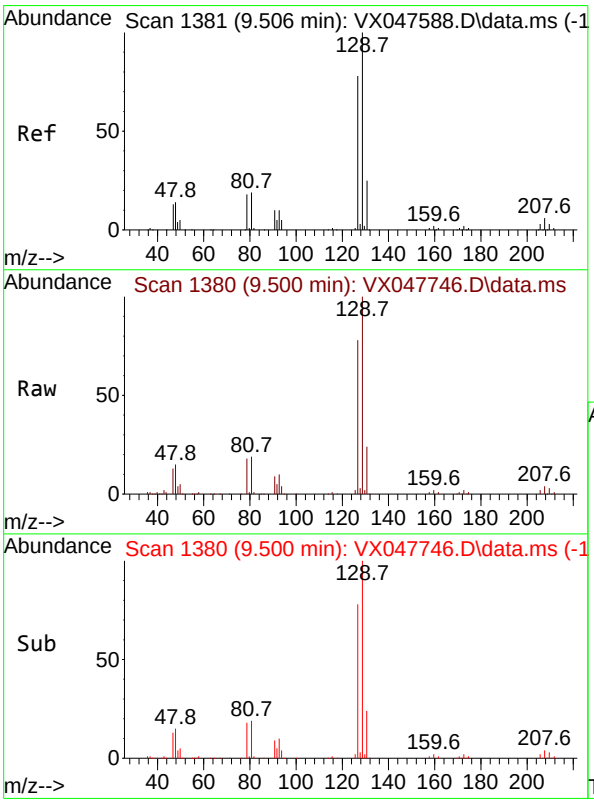
#59
2-Hexanone
Concen: 260.122 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 518114

Ion	Ratio	Lower	Upper
43	100		
58	53.4	26.1	78.2

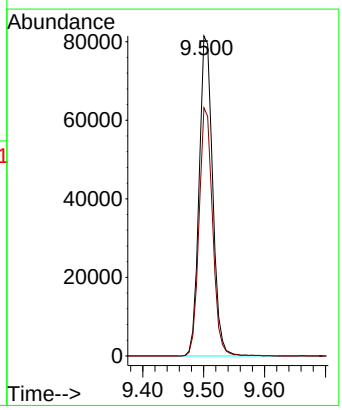


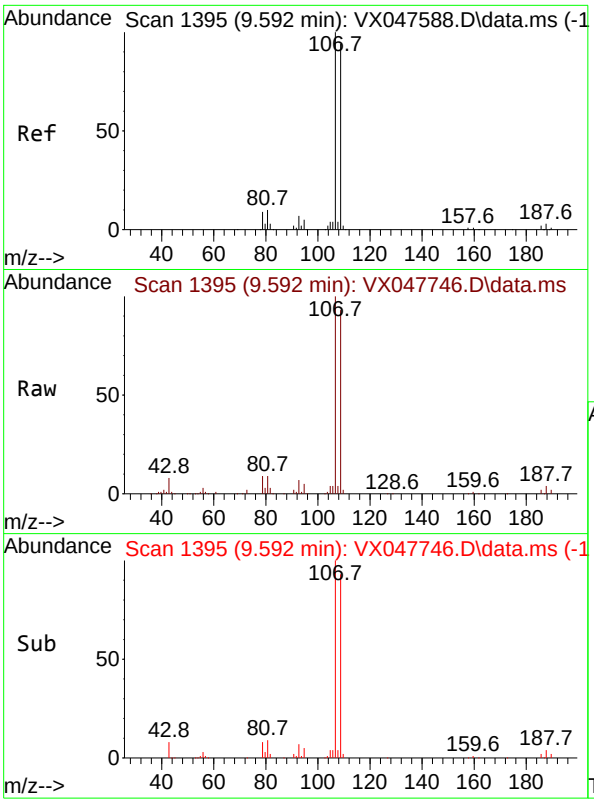


#60
Dibromochloromethane
Concen: 52.954 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:129 Resp: 125404

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2



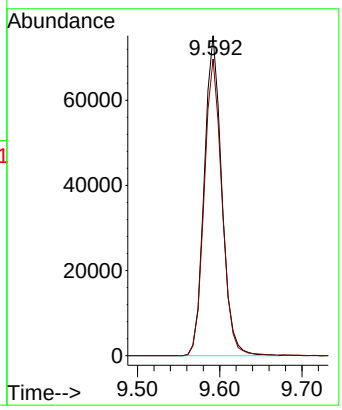


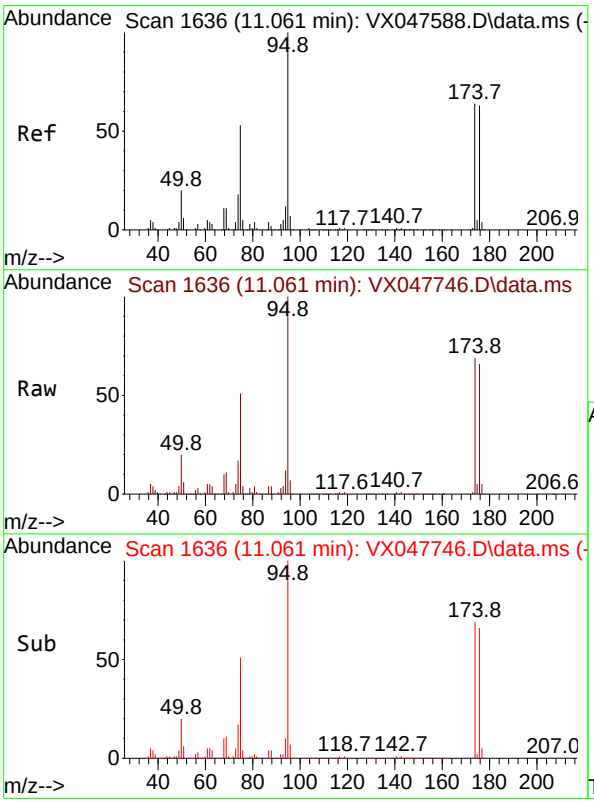
#61
1,2-Dibromoethane
Concen: 53.090 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 111139

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9

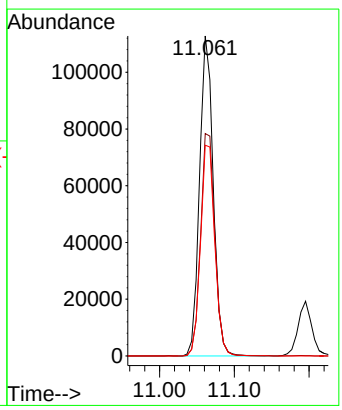


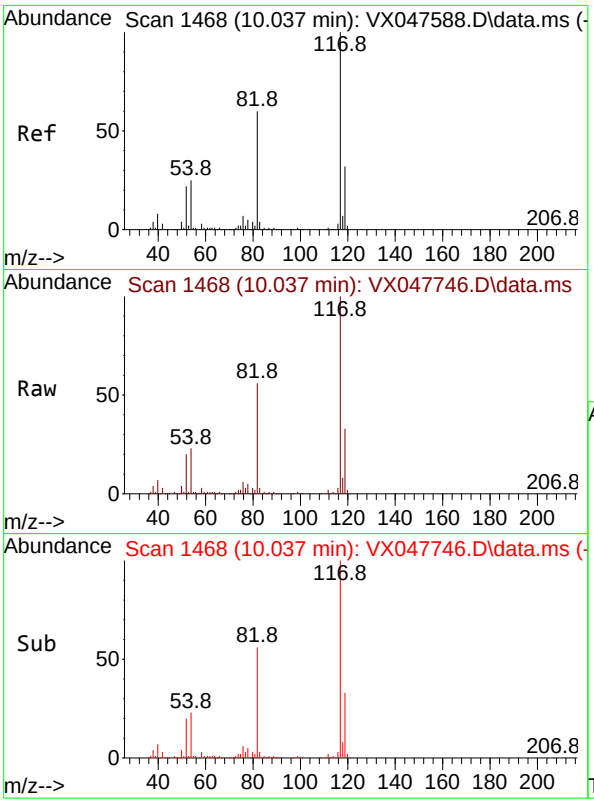


#62
4-Bromofluorobenzene
Concen: 55.994 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 95 Resp: 143339

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	141.6
176	69.0	0.0	138.4



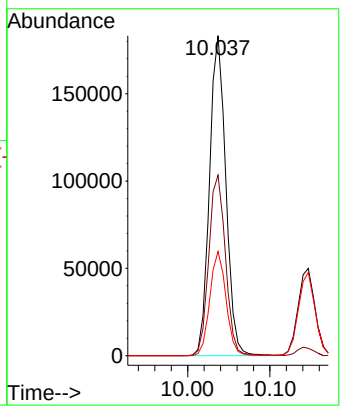


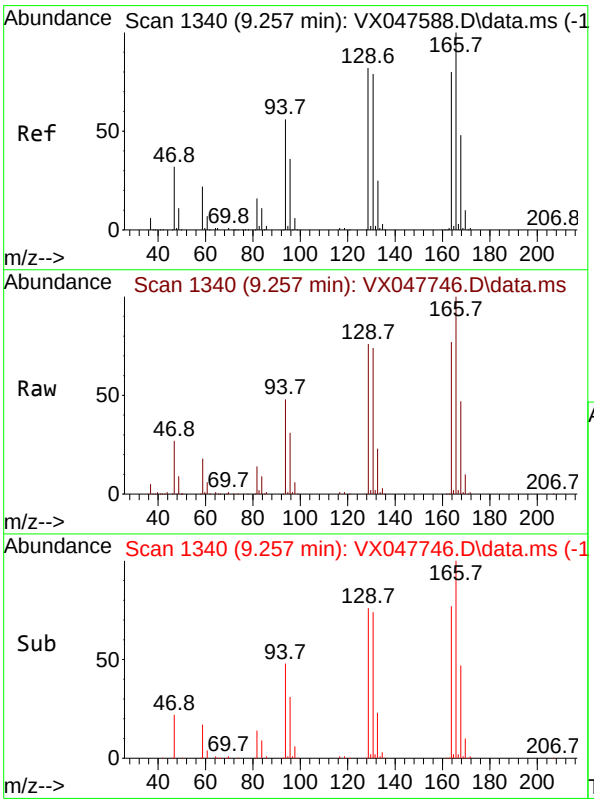
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 252770

Ion	Ratio	Lower	Upper
117	100		
82	56.4	47.8	71.6
119	32.6	25.2	37.8

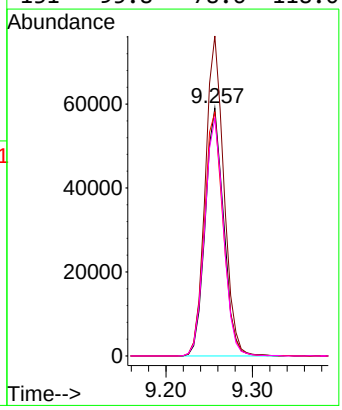


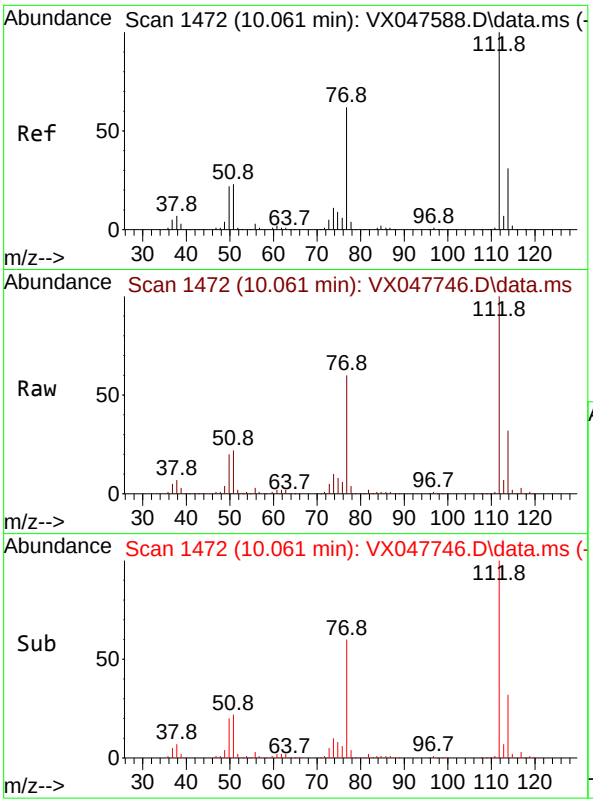


#64
Tetrachloroethene
Concen: 53.073 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:164 Resp: 87453

Ion	Ratio	Lower	Upper
164	100		
166	129.1	100.2	150.2
129	98.3	81.8	122.6
131	95.8	78.6	118.0



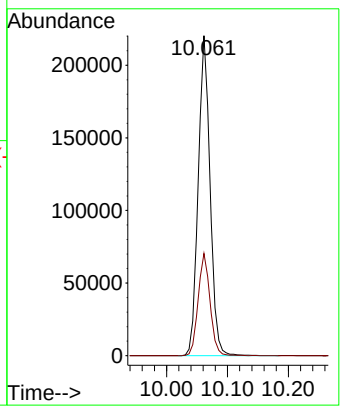


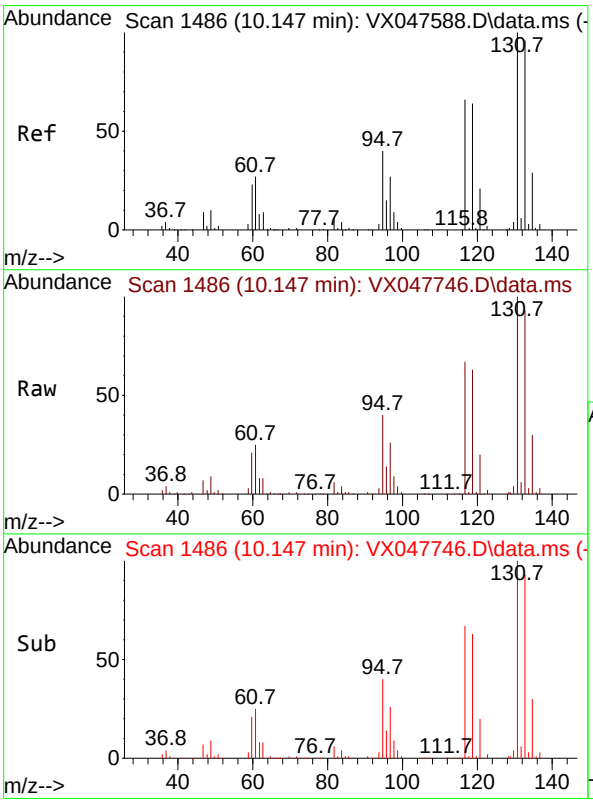
#65
Chlorobenzene
Concen: 51.885 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 297945

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7

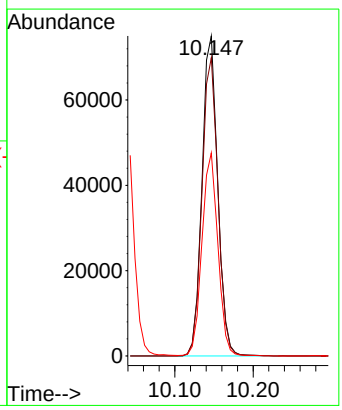


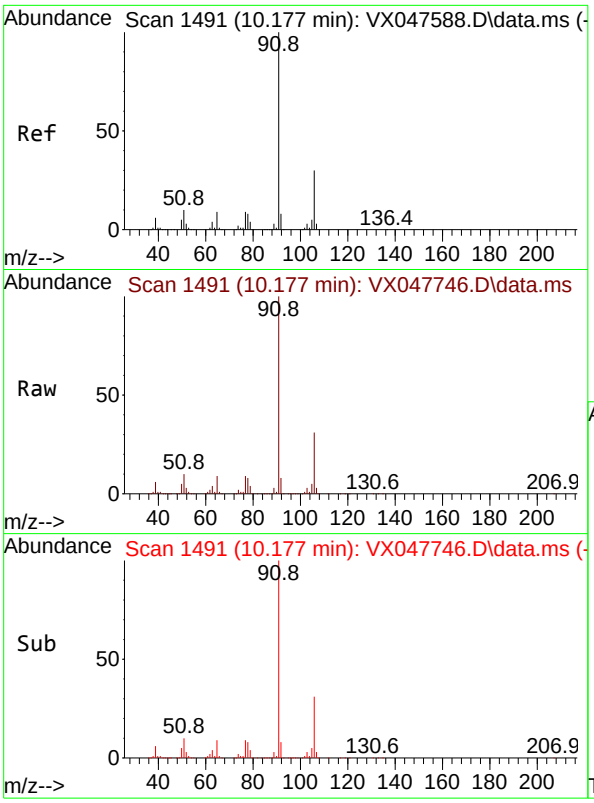


#66
1,1,1,2-Tetrachloroethane
Concen: 52.679 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:131 Resp: 104386

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	64.4	32.0	96.0



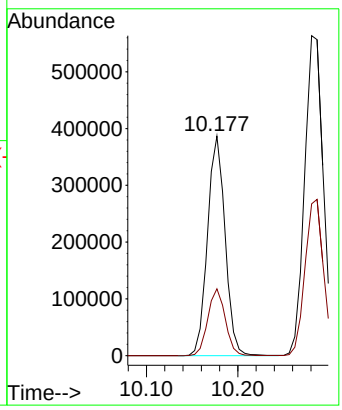


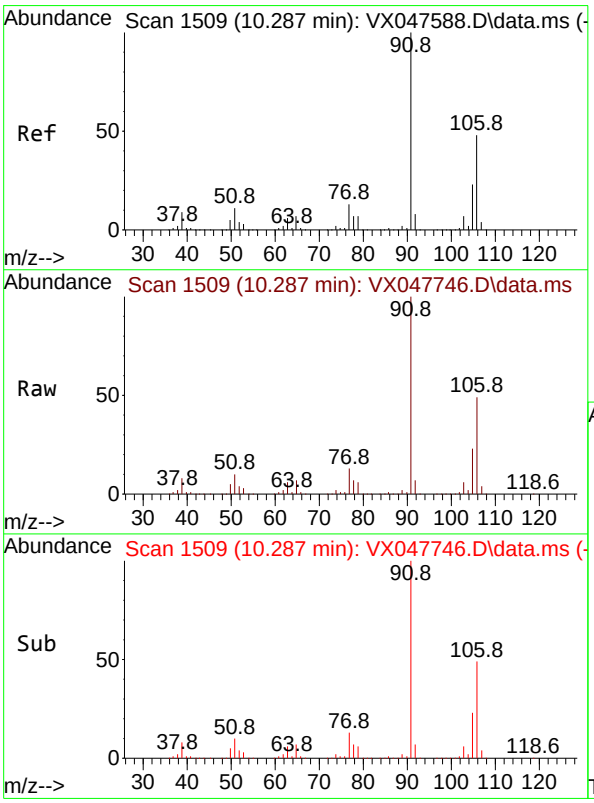
#67
Ethyl Benzene
Concen: 52.120 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 516414

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

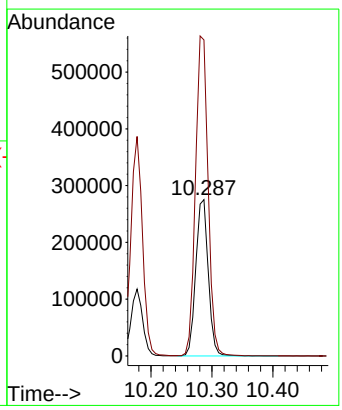


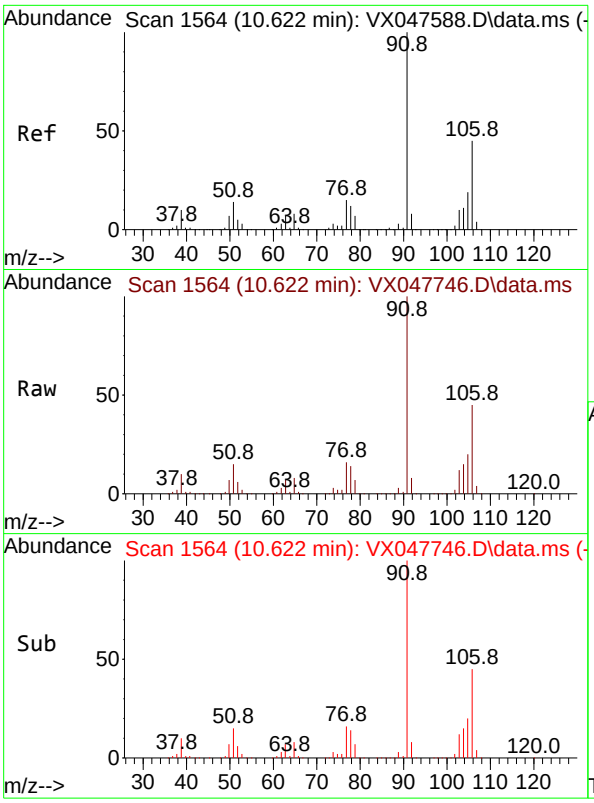


#68
m/p-Xylenes
Concen: 106.017 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:106 Resp: 390979

Ion	Ratio	Lower	Upper
106	100		
91	206.2	167.8	251.8



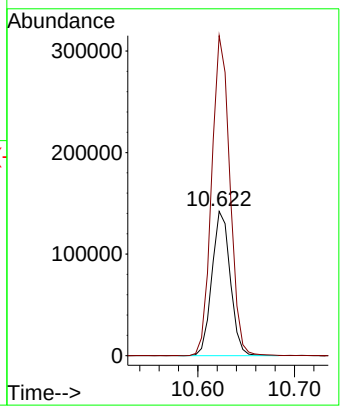


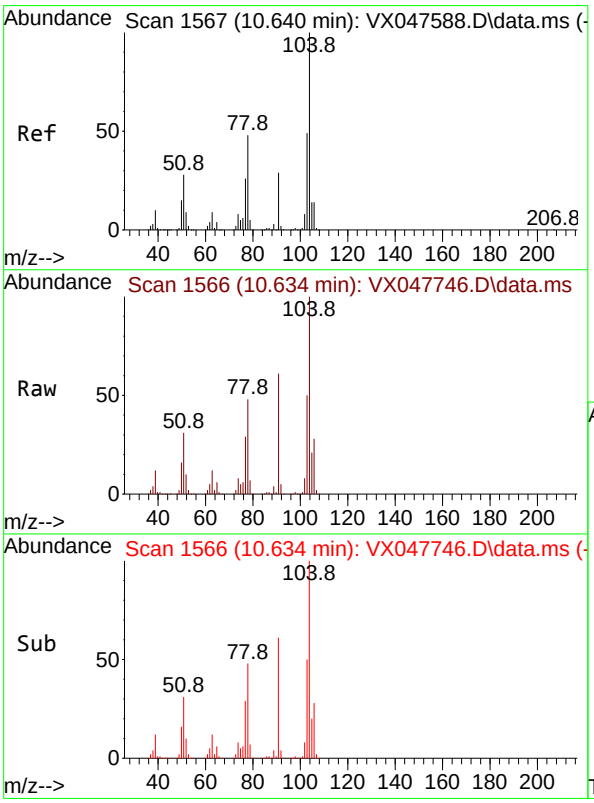
#69
o-Xylene
Concen: 52.481 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 187203

Ion	Ratio	Lower	Upper
106	100		
91	220.0	111.1	333.4

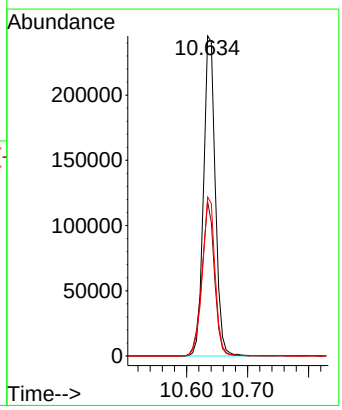


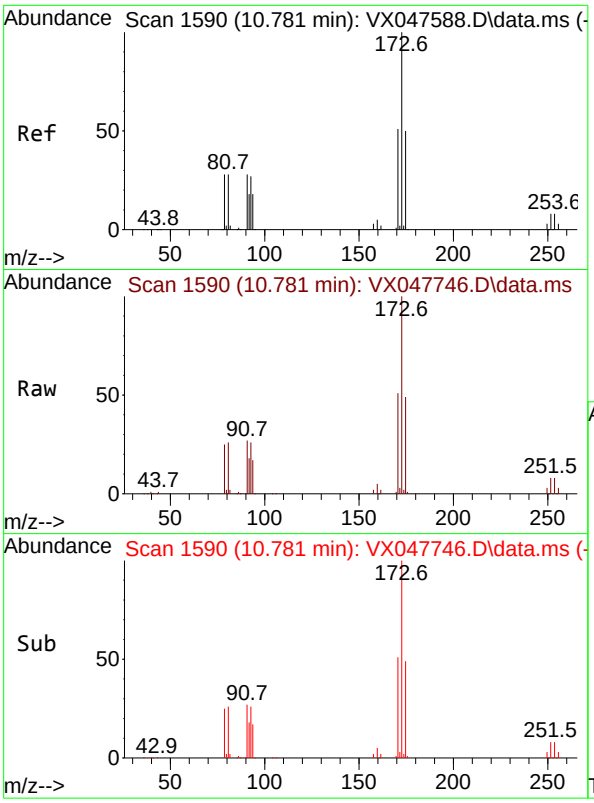


#70
Styrene
Concen: 52.908 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:104 Resp: 330686

Ion	Ratio	Lower	Upper
104	100		
78	51.2	43.1	64.7
103	53.7	43.1	64.7



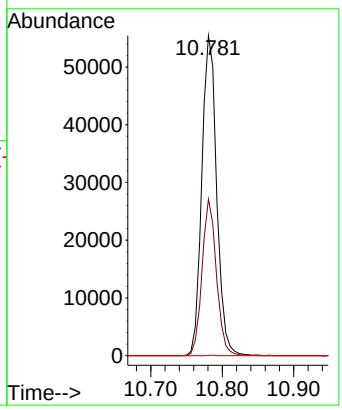


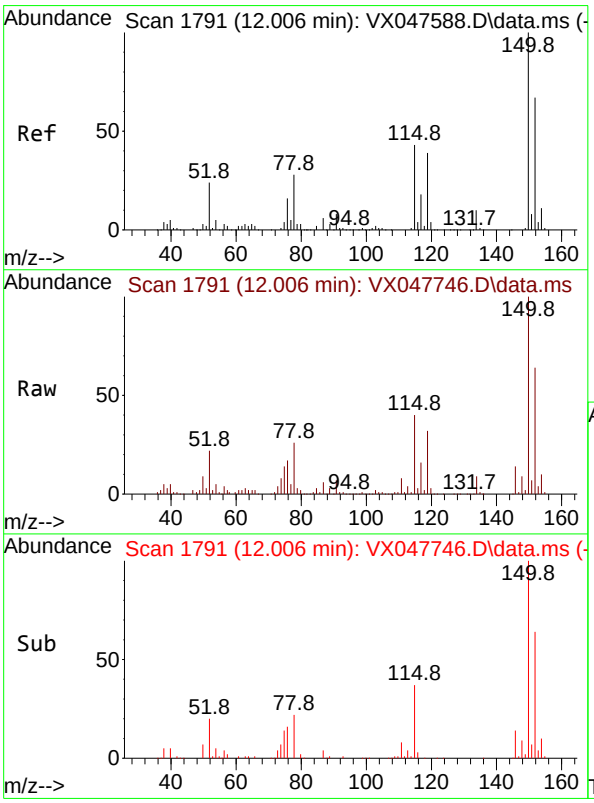
#71
Bromoform
Concen: 54.161 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 80138

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.9	74.6
254	0.1	0.1	0.1#

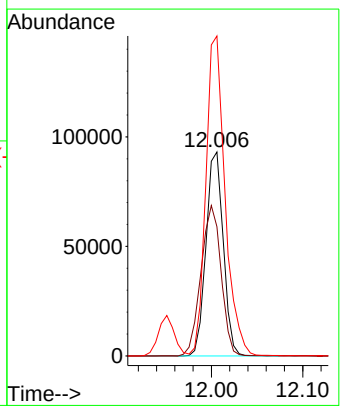


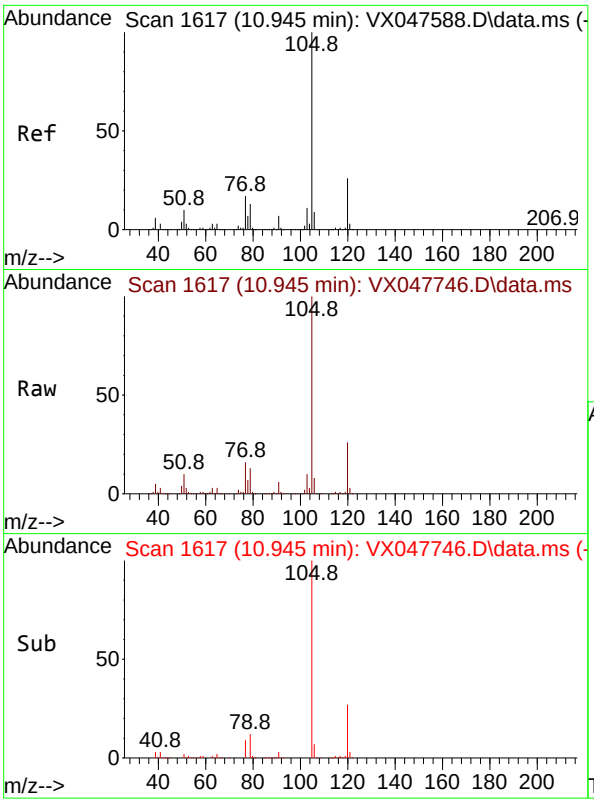


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:152 Resp: 121948

Ion	Ratio	Lower	Upper
152	100		
115	86.0	44.9	134.5
150	173.9	0.0	352.0



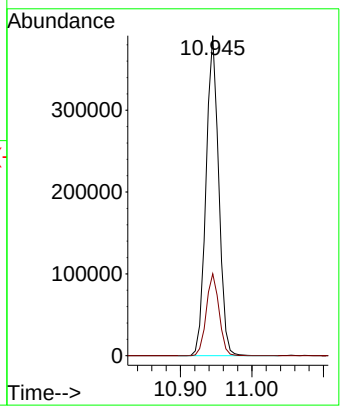


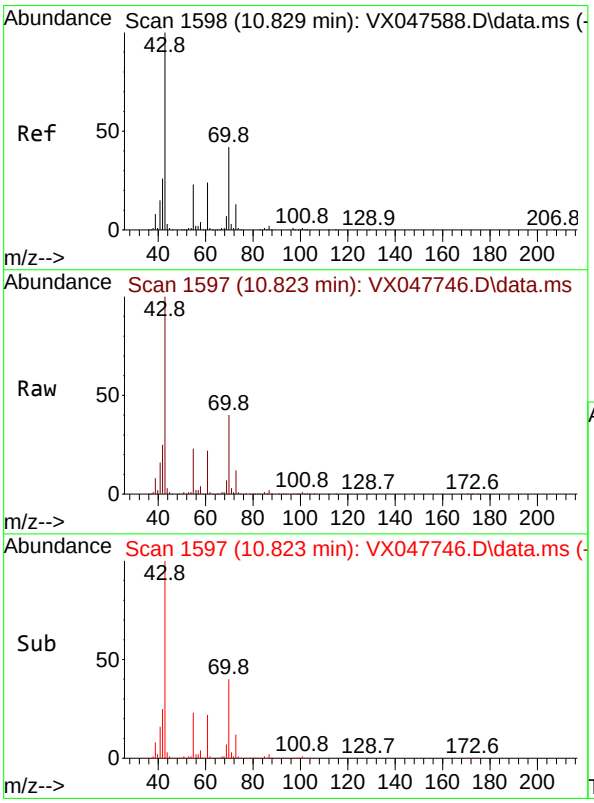
#73
Isopropylbenzene
Concen: 51.938 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 481526

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

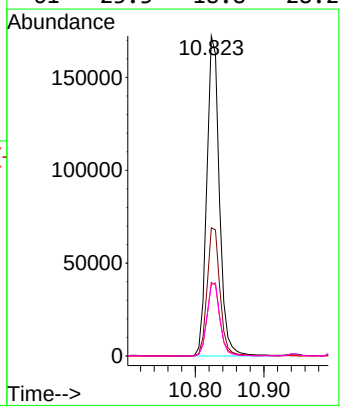


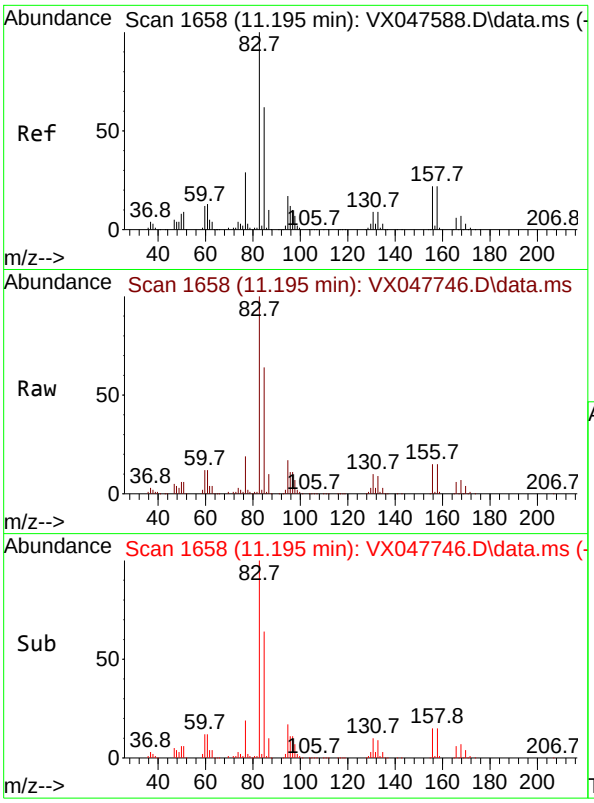


#74
N-amyl acetate
Concen: 52.312 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 221168

Ion	Ratio	Lower	Upper
43	100		
70	40.9	32.0	48.0
55	23.6	18.9	28.3
61	23.3	18.8	28.2



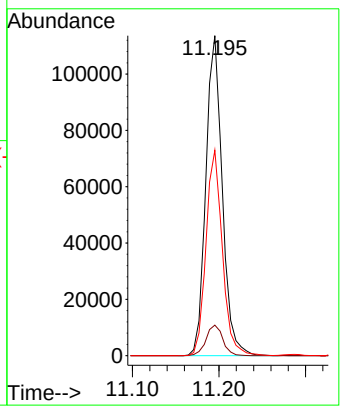


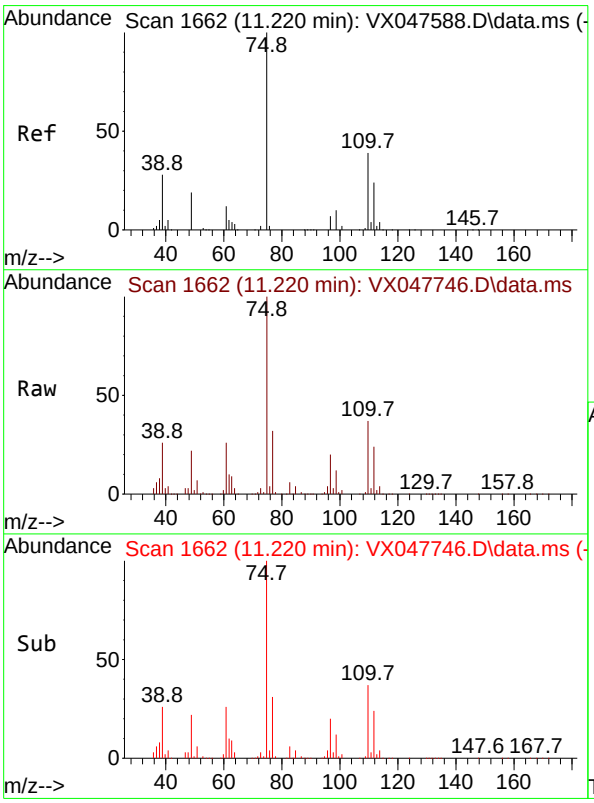
#75
1,1,2,2-Tetrachloroethane
Concen: 53.400 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 149789

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.0	31.6	95.0

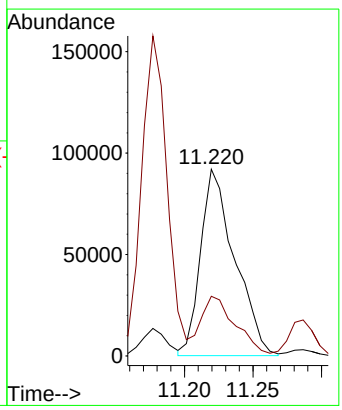


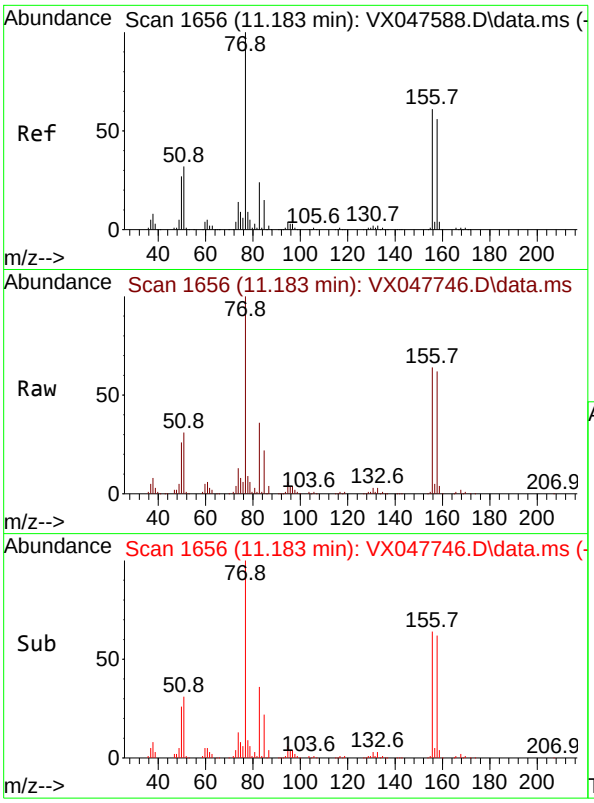


#76
1,2,3-Trichloropropane
Concen: 64.854 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 160130

Ion	Ratio	Lower	Upper
75	100		
77	32.8	18.8	56.4



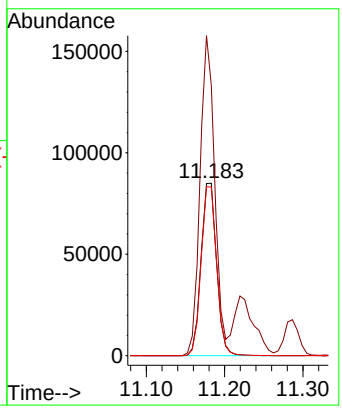


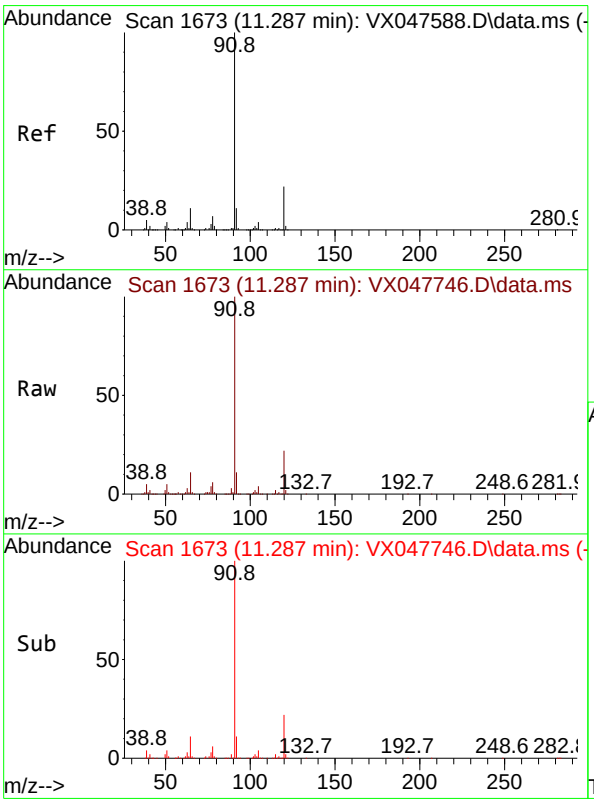
#77
Bromobenzene
Concen: 51.110 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 116706

Ion	Ratio	Lower	Upper
156	100		
77	174.8	89.7	269.1
158	98.2	47.9	143.6

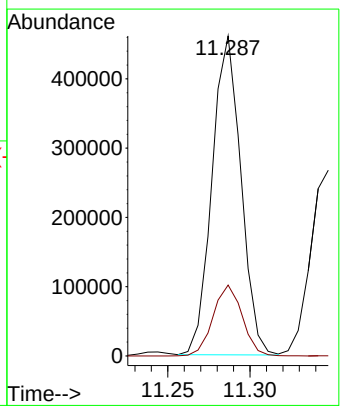


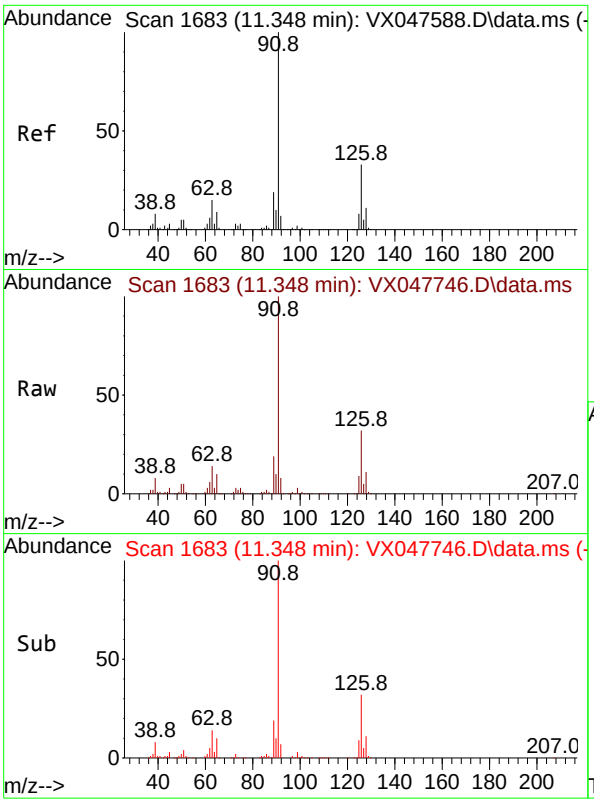


#78
n-propylbenzene
Concen: 51.387 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 563194

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



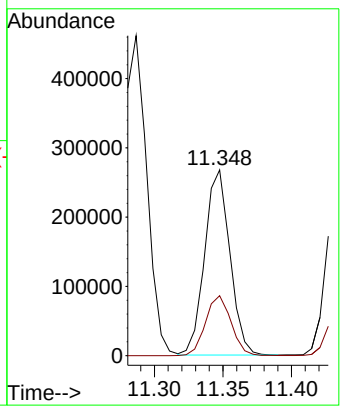


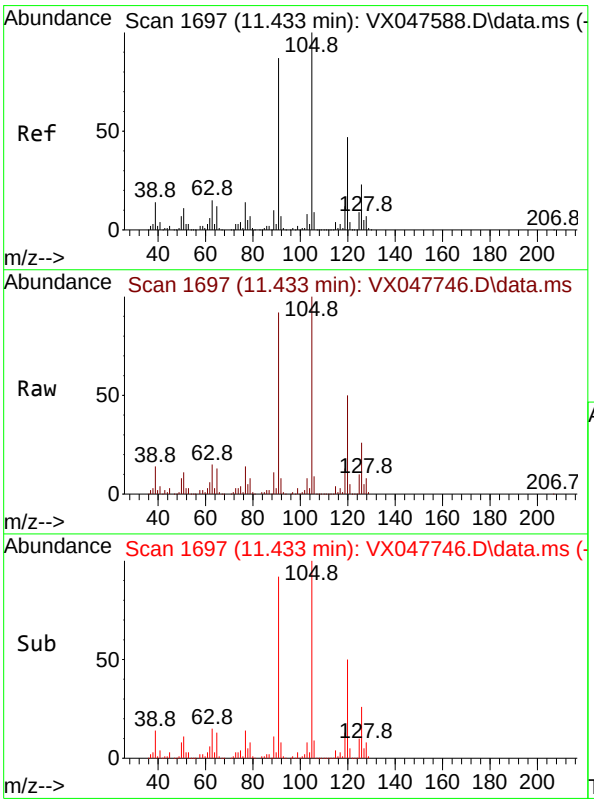
#79
2-Chlorotoluene
Concen: 50.938 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 341925

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3

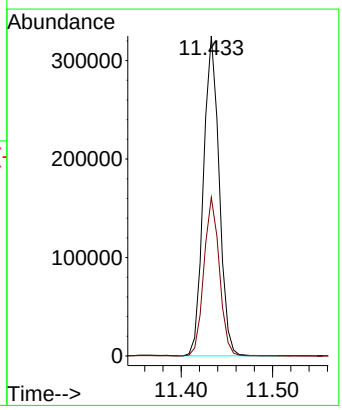


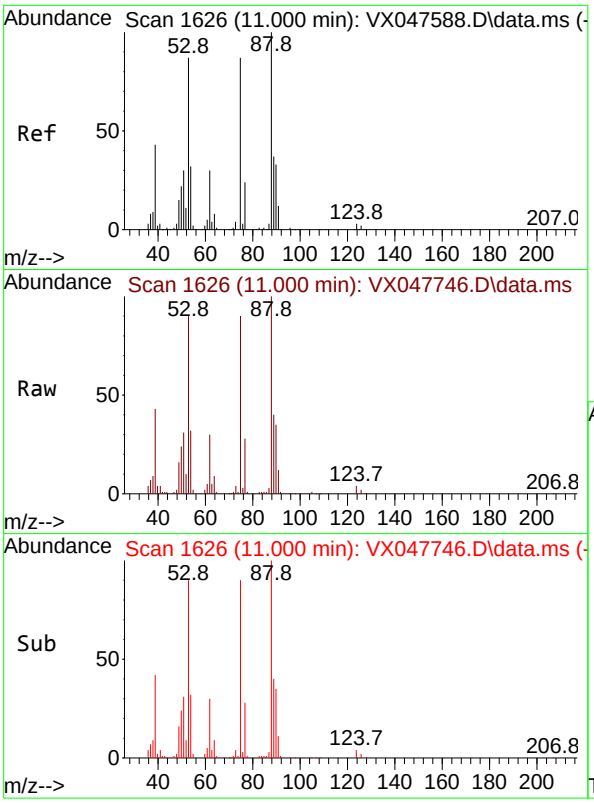


#80
1,3,5-Trimethylbenzene
Concen: 50.669 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 385950

Ion	Ratio	Lower	Upper
105	100		
120	49.0	23.6	70.8



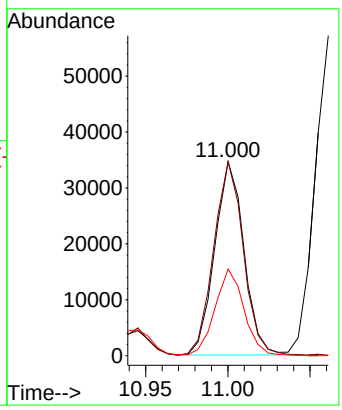


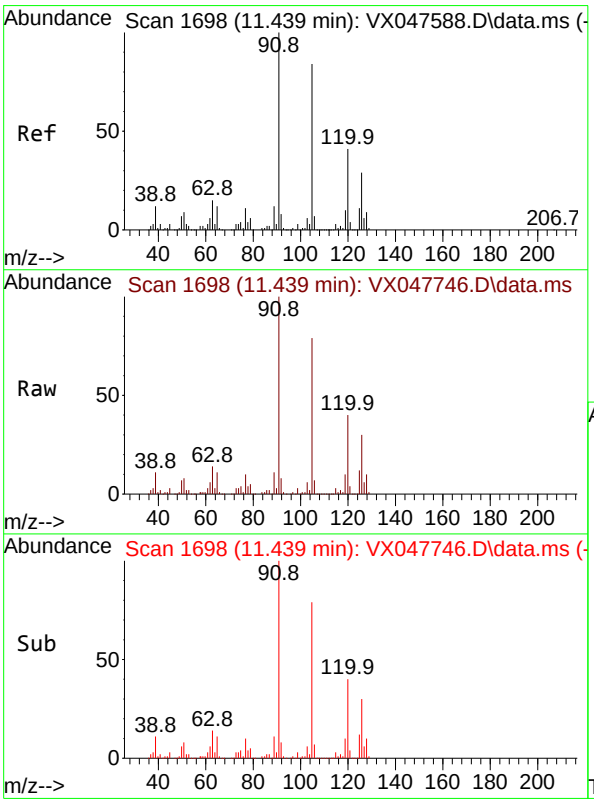
#81
trans-1,4-Dichloro-2-butene
Concen: 44.142 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 42739

Ion	Ratio	Lower	Upper
75	100		
53	101.7	83.4	125.2
89	44.8	36.3	54.5

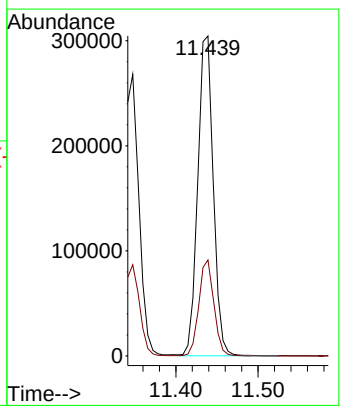


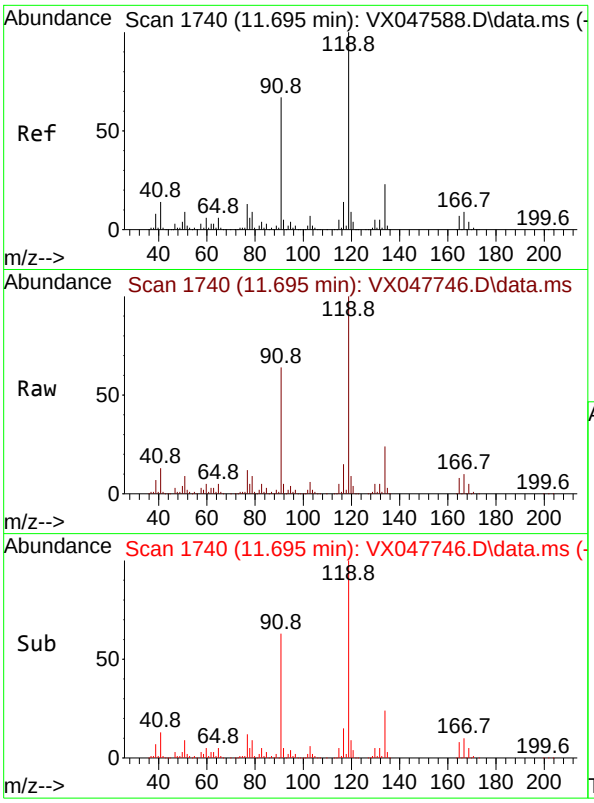


#82
4-Chlorotoluene
Concen: 50.313 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 398881

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6



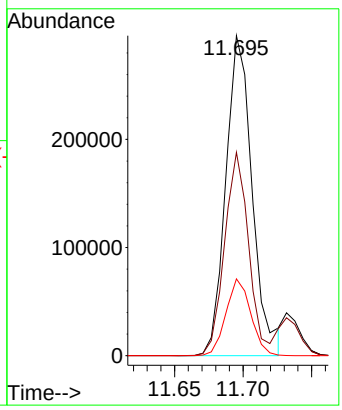


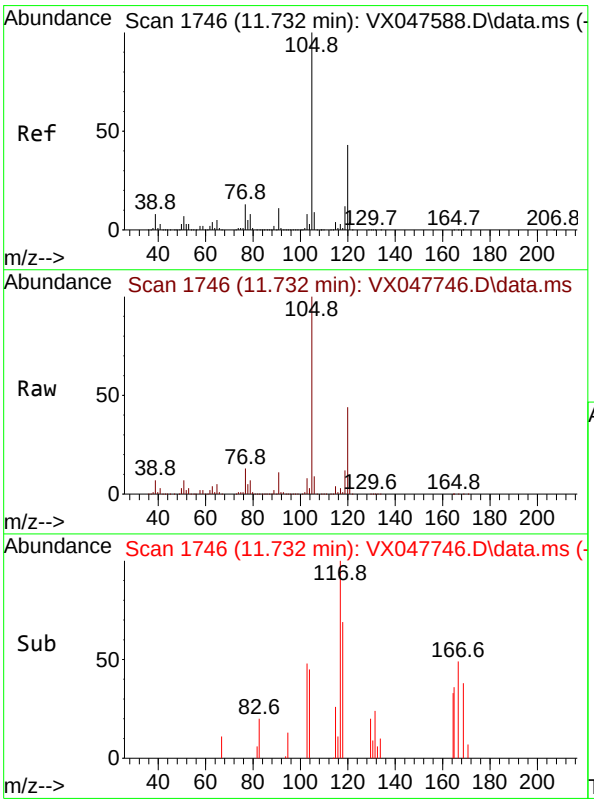
#83
tert-Butylbenzene
Concen: 50.936 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 397171

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.6	88.8
134	22.6	11.0	33.0

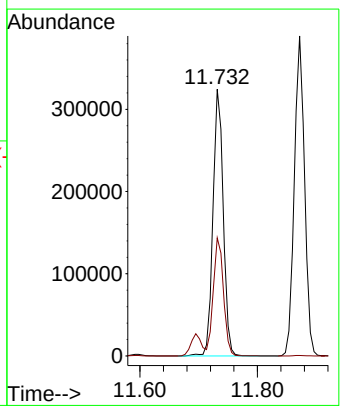


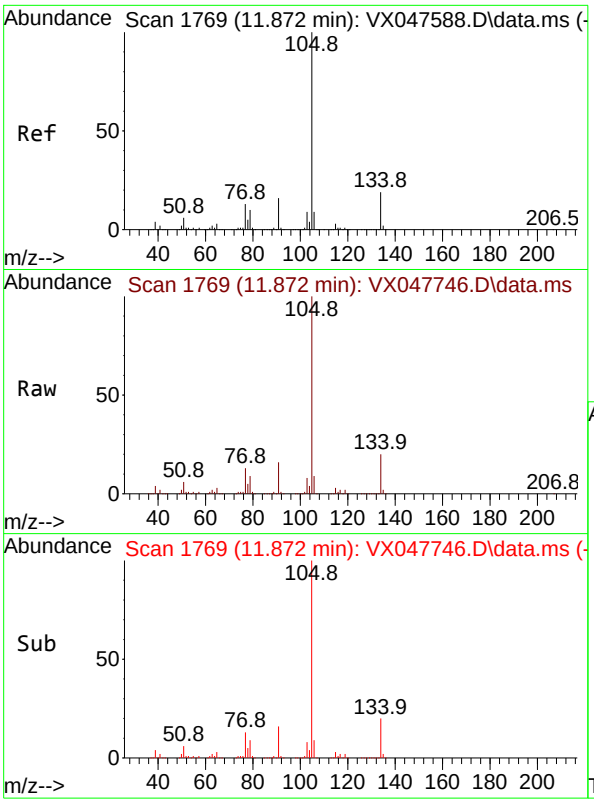


#84
1,2,4-Trimethylbenzene
Concen: 51.085 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 394508

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.1	66.1



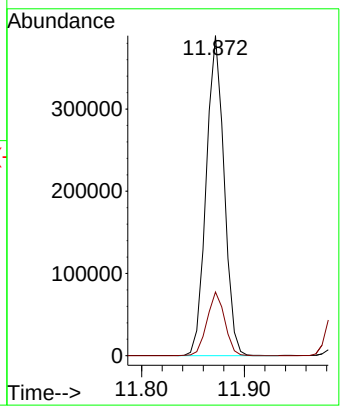


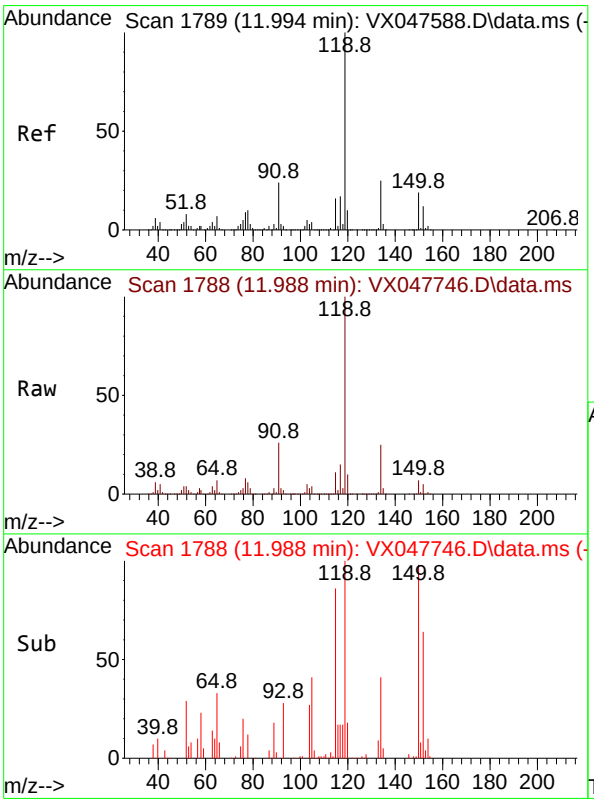
#85
sec-Butylbenzene
Concen: 50.945 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 471850

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

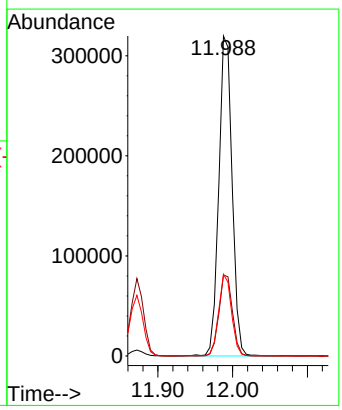


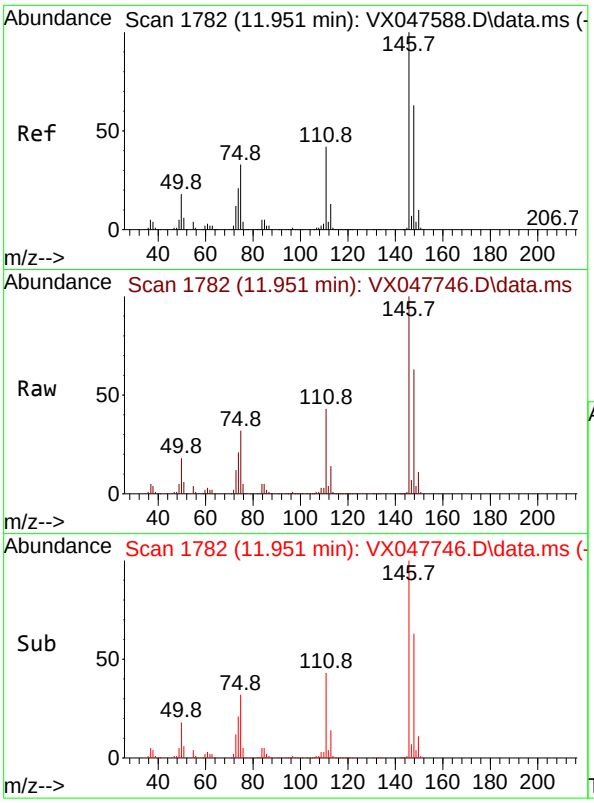


#86
p-Isopropyltoluene
Concen: 50.687 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:119 Resp: 397440

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	24.8	12.6	37.6



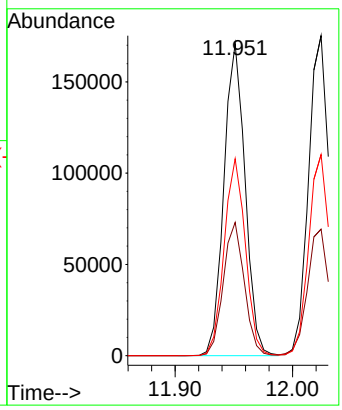


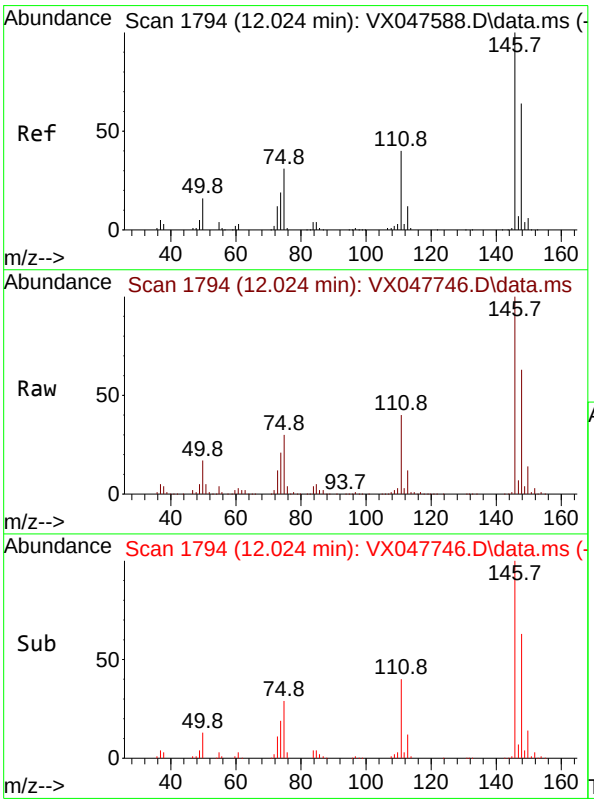
#87
1,3-Dichlorobenzene
Concen: 50.618 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 214686

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	63.2	32.0	96.0

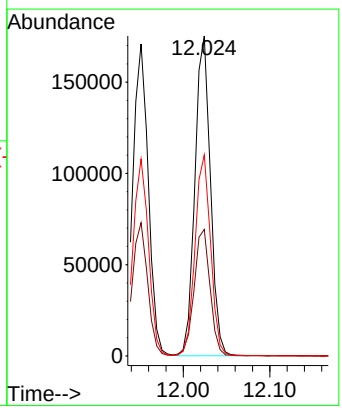


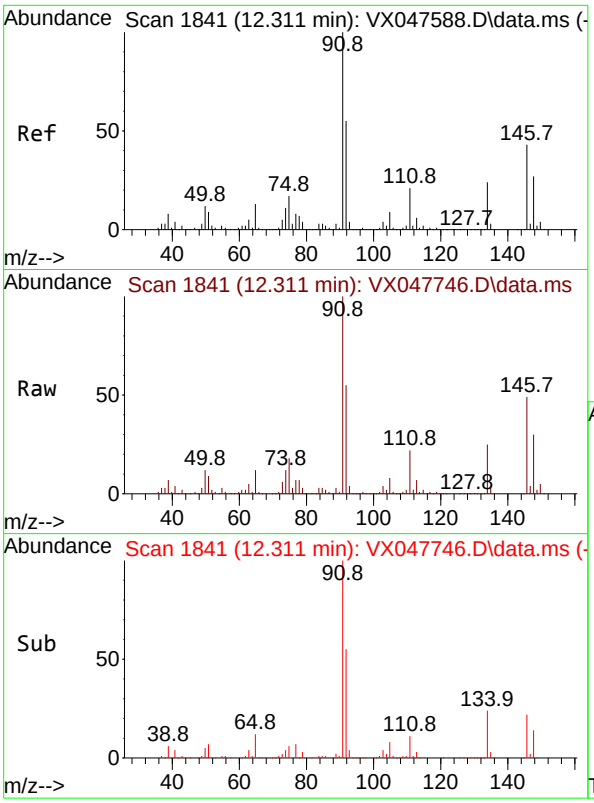


#88
1,4-Dichlorobenzene
Concen: 50.100 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 218086

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.8	62.4
148	63.3	31.7	95.1



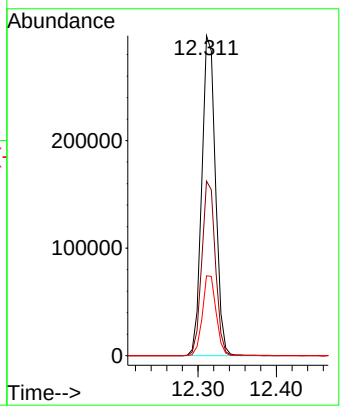


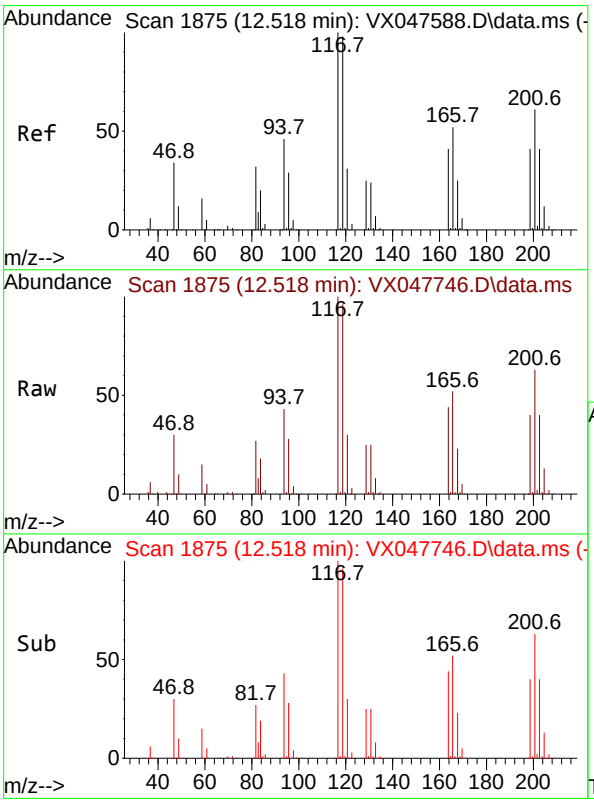
#89
n-Butylbenzene
Concen: 49.578 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 359706

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8

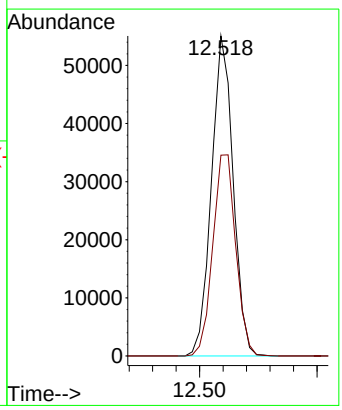


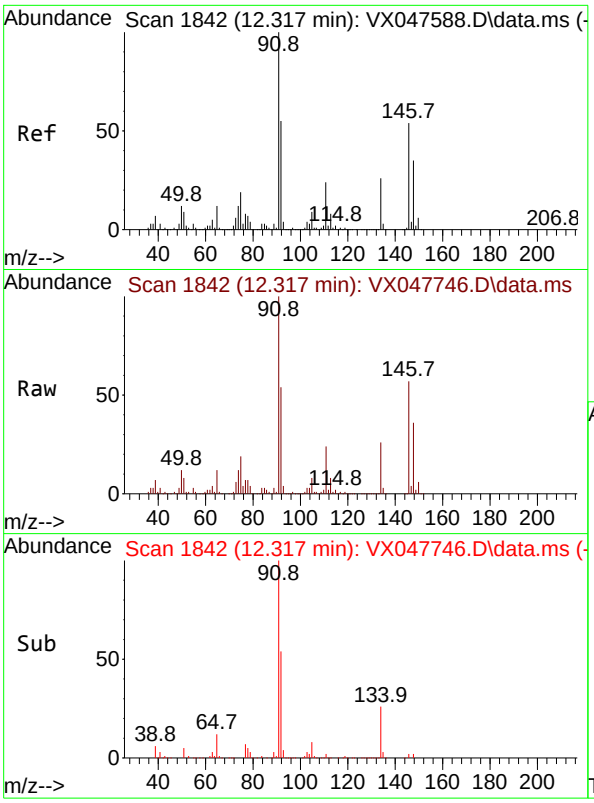


#90
Hexachloroethane
Concen: 51.284 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 70601

Ion	Ratio	Lower	Upper
117	100		
201	66.7	34.2	102.5



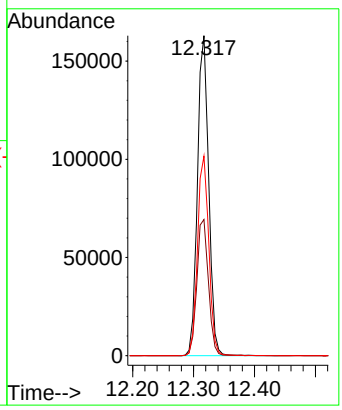


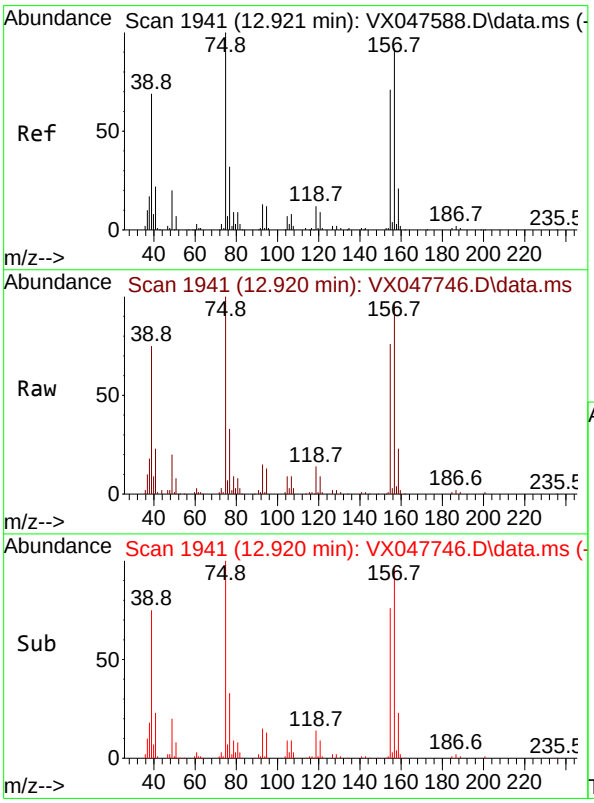
#91
1,2-Dichlorobenzene
Concen: 51.499 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 208091

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	62.8	31.8	95.4

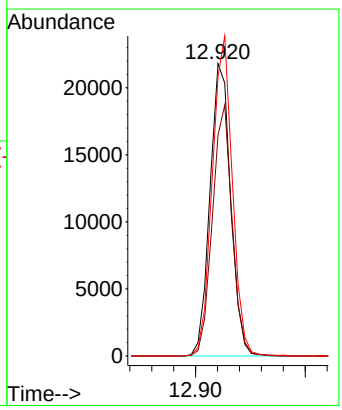


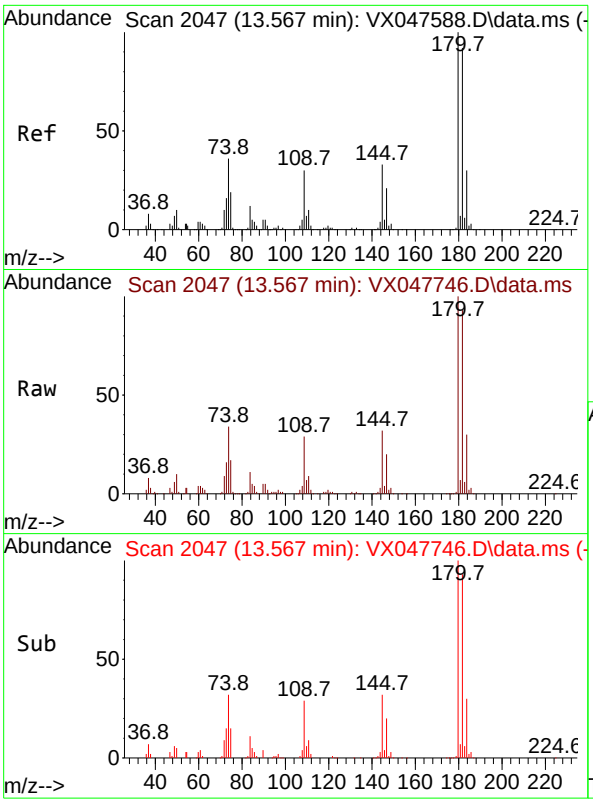


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.279 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 28554

Ion	Ratio	Lower	Upper
75	100		
155	82.0	37.7	113.1
157	106.4	49.8	149.4



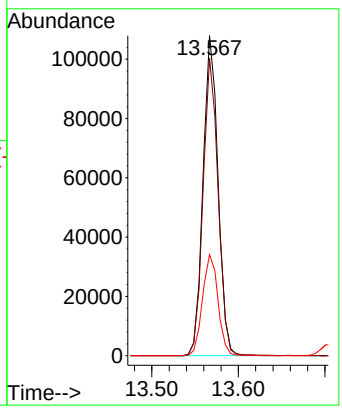


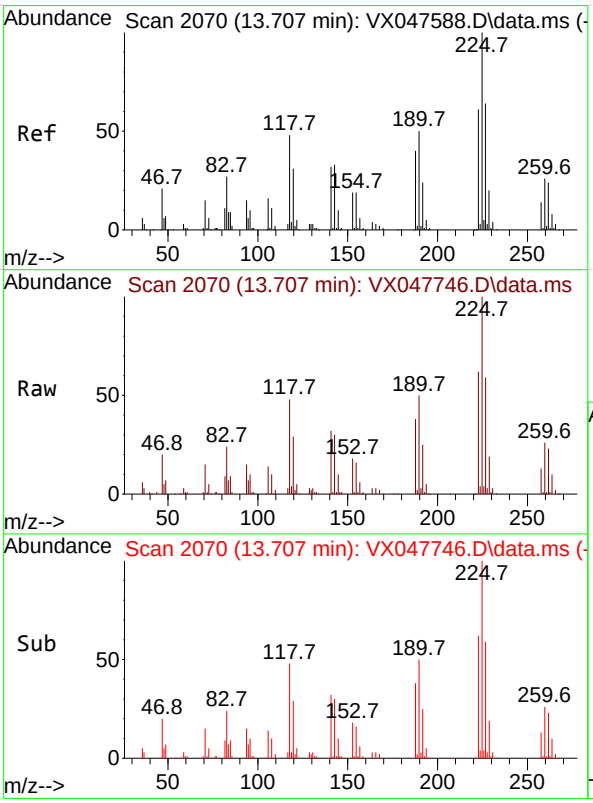
#93
1,2,4-Trichlorobenzene
Concen: 49.444 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 129844

Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	32.6	16.4	49.1

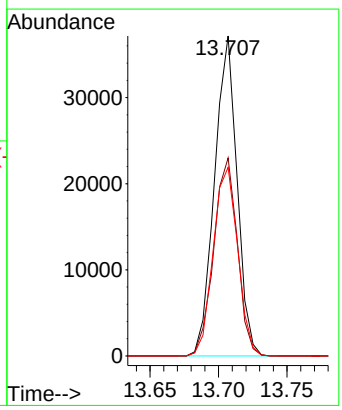


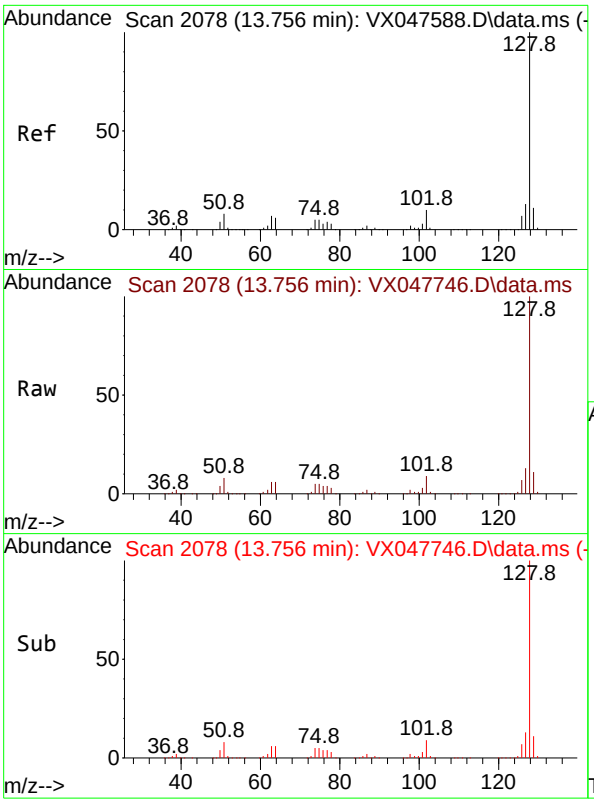


#94
Hexachlorobutadiene
Concen: 47.621 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:225 Resp: 42478

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.7	95.1
227	64.0	32.0	96.0



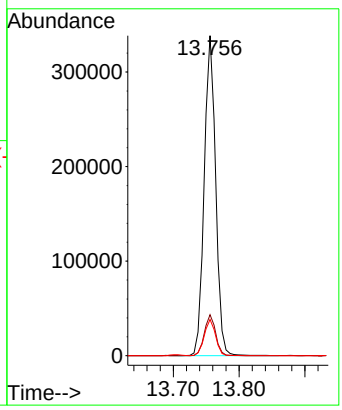


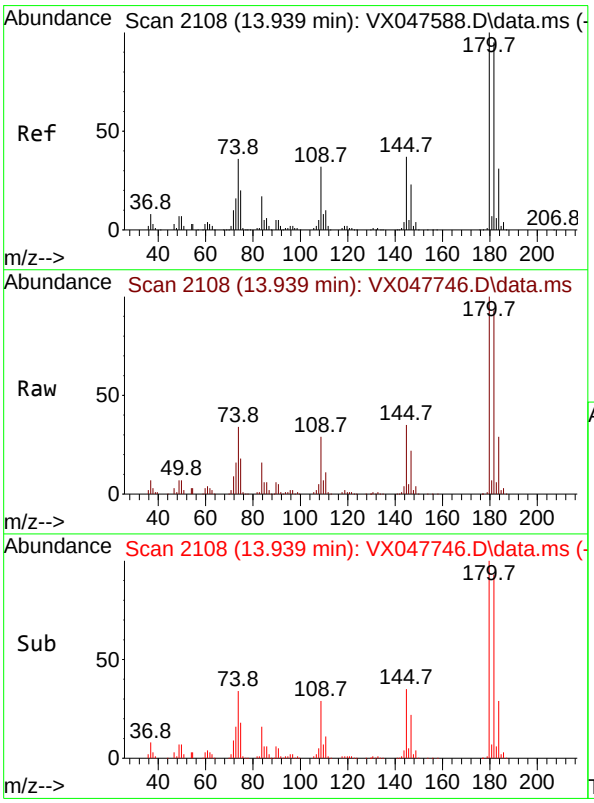
#95
Naphthalene
Concen: 51.297 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 410203

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.1	8.8	13.2

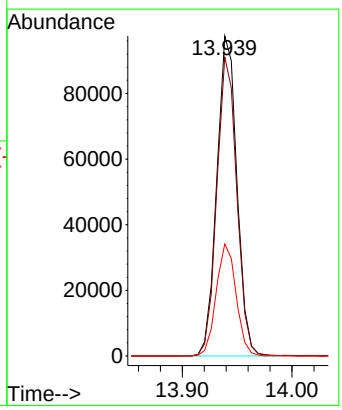




#96
1,2,3-Trichlorobenzene
Concen: 50.895 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:180 Resp: 124328

Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.6	142.8
145	34.6	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	156932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	284011	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	122385	48.994	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.980%			
35) Dibromofluoromethane	5.373	113	96590	50.711	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.420%			
50) Toluene-d8	8.635	98	333541	50.607	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.220%			
62) 4-Bromofluorobenzene	11.061	95	127747	51.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	38327	23.585	ug/l	98
3) Chloromethane	1.301	50	46331	21.693	ug/l	95
4) Vinyl Chloride	1.380	62	46862	22.415	ug/l	97
5) Bromomethane	1.618	94	31202	23.536	ug/l	96
6) Chloroethane	1.697	64	29347	21.002	ug/l	95
7) Trichlorofluoromethane	1.898	101	64984	20.934	ug/l	98
8) Diethyl Ether	2.136	74	25934	20.423	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	38130	21.007	ug/l	100
10) Methyl Iodide	2.459	142	56731	20.040	ug/l	99
11) Tert butyl alcohol	2.941	59	29775	107.025	ug/l	100
12) 1,1-Dichloroethene	2.325	96	39463	21.165	ug/l	99
13) Acrolein	2.239	56	25496	99.449	ug/l	99
14) Allyl chloride	2.666	41	72907	18.949	ug/l	97
15) Acrylonitrile	3.056	53	116513	113.065	ug/l	99
16) Acetone	2.374	43	95237	87.685	ug/l	100
17) Carbon Disulfide	2.514	76	106524	20.869	ug/l	99
18) Methyl Acetate	2.703	43	54144	22.400	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	140115	20.586	ug/l	100
20) Methylene Chloride	2.788	84	47681	20.740	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	42881	21.362	ug/l	94
22) Diisopropyl ether	3.751	45	155798	20.894	ug/l #	82
23) Vinyl Acetate	3.715	43	617433	103.461	ug/l	100
24) 1,1-Dichloroethane	3.605	63	83274	21.012	ug/l	100
25) 2-Butanone	4.544	43	144925	106.972	ug/l	96
26) 2,2-Dichloropropane	4.471	77	42968	13.043	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	51366	20.894	ug/l	95
28) Bromochloromethane	4.891	49	33021	19.085	ug/l	100
29) Tetrahydrofuran	4.989	42	93114	114.248	ug/l	99
30) Chloroform	5.087	83	85486	21.345	ug/l	96
31) Cyclohexane	5.464	56	69116	20.939	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	71907	21.168	ug/l	99
36) 1,1-Dichloropropene	5.678	75	56214	20.197	ug/l	98
37) Ethyl Acetate	4.702	43	63237	21.220	ug/l	100
38) Carbon Tetrachloride	5.666	117	59490	19.672	ug/l	96
39) Methylcyclohexane	7.367	83	63625	20.138	ug/l	94
40) Benzene	6.025	78	176451	20.873	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	33379	21.696	ug/l		99
42) 1,2-Dichloroethane	6.074	62	65506	20.366	ug/l		98
43) Isopropyl Acetate	6.330	43	102233	20.917	ug/l		99
44) Trichloroethene	7.117	130	43438	21.254	ug/l		88
45) 1,2-Dichloropropane	7.415	63	45508	21.024	ug/l		97
46) Dibromomethane	7.568	93	32646	20.725	ug/l		97
47) Bromodichloromethane	7.806	83	67223	20.681	ug/l		99
48) Methyl methacrylate	7.678	41	49967	20.524	ug/l		97
49) 1,4-Dioxane	7.653	88	12395	503.790	ug/l		98
51) 4-Methyl-2-Pentanone	8.561	43	310191	114.468	ug/l		100
52) Toluene	8.702	92	109881	21.098	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	62267	18.780	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	67811	19.135	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	43533	21.677	ug/l		98
56) Ethyl methacrylate	9.104	69	67219	21.313	ug/l		96
57) 1,3-Dichloropropane	9.293	76	74746	21.667	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	148860	105.735	ug/l		100
59) 2-Hexanone	9.415	43	217174	111.587	ug/l		99
60) Dibromochloromethane	9.506	129	48986	21.170	ug/l		99
61) 1,2-Dibromoethane	9.592	107	45047	22.022	ug/l		99
64) Tetrachloroethene	9.256	164	35498	21.442	ug/l		100
65) Chlorobenzene	10.061	112	119644	20.738	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	41811	21.001	ug/l		99
67) Ethyl Benzene	10.177	91	206630	20.757	ug/l		99
68) m/p-Xylenes	10.287	106	156597	42.264	ug/l		98
69) o-Xylene	10.622	106	75062	20.945	ug/l		99
70) Styrene	10.640	104	129679	20.651	ug/l		99
71) Bromoform	10.781	173	31001	20.854	ug/l	#	100
73) Isopropylbenzene	10.945	105	193342	20.548	ug/l		100
74) N-amyl acetate	10.829	43	88563	20.640	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	61446	21.584	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	66910	26.701	ug/l		90
77) Bromobenzene	11.183	156	48182	20.791	ug/l		97
78) n-propylbenzene	11.287	91	228489	20.542	ug/l		100
79) 2-Chlorotoluene	11.348	91	140664	20.647	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	160516	20.764	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	15843	16.123	ug/l		97
82) 4-Chlorotoluene	11.439	91	166032	20.635	ug/l		99
83) tert-Butylbenzene	11.695	119	160239	20.248	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	161967	20.665	ug/l		100
85) sec-Butylbenzene	11.872	105	196176	20.870	ug/l		99
86) p-Isopropyltoluene	11.994	119	161751	20.326	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	88665	20.598	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	90738	20.539	ug/l		99
89) n-Butylbenzene	12.311	91	148126	20.116	ug/l		98
90) Hexachloroethane	12.518	117	28222	20.199	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	84704	20.655	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	11756	20.397	ug/l		94
93) 1,2,4-Trichlorobenzene	13.567	180	52777	19.802	ug/l		99
94) Hexachlorobutadiene	13.707	225	18191	20.094	ug/l		98
95) Naphthalene	13.756	128	164732	20.298	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	51341	20.708	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

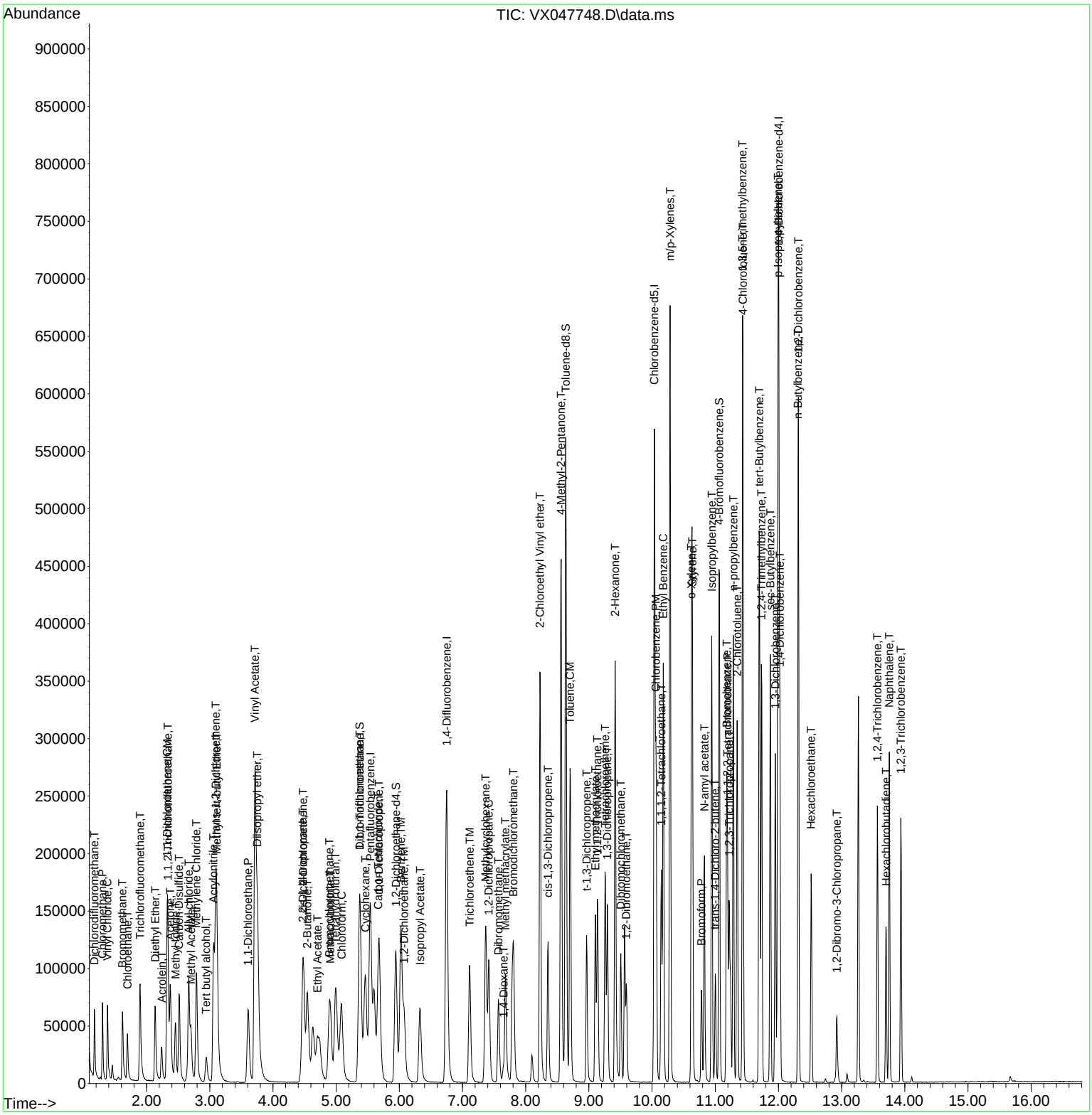
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

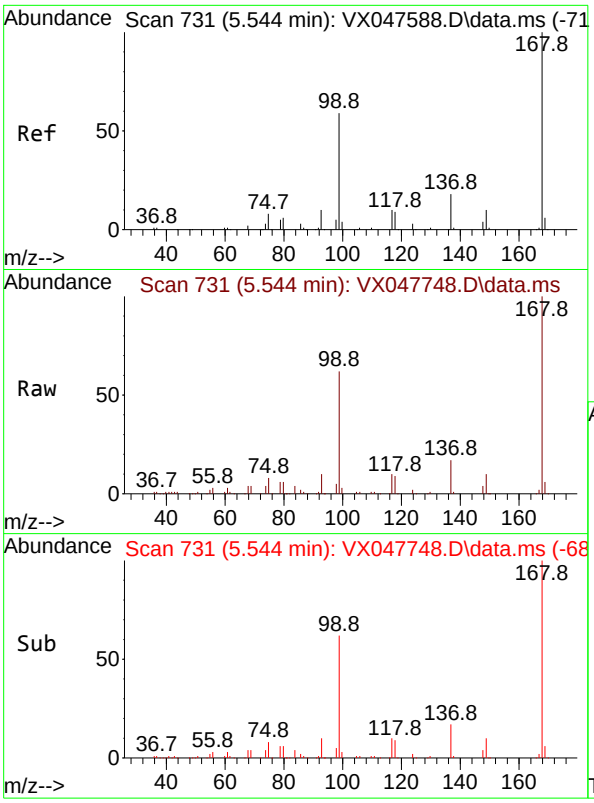
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



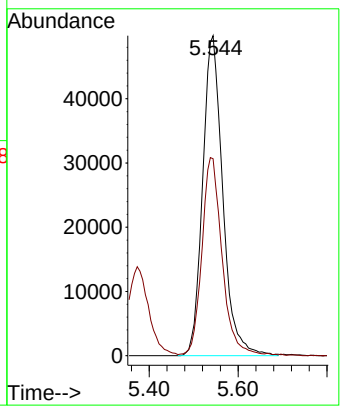


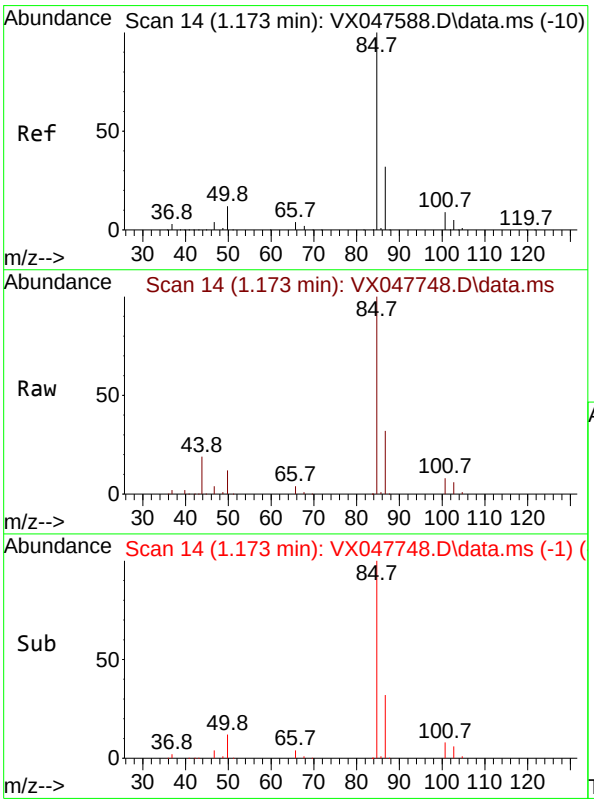
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:168 Resp: 156932

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2

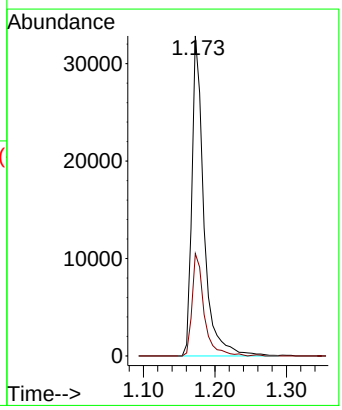


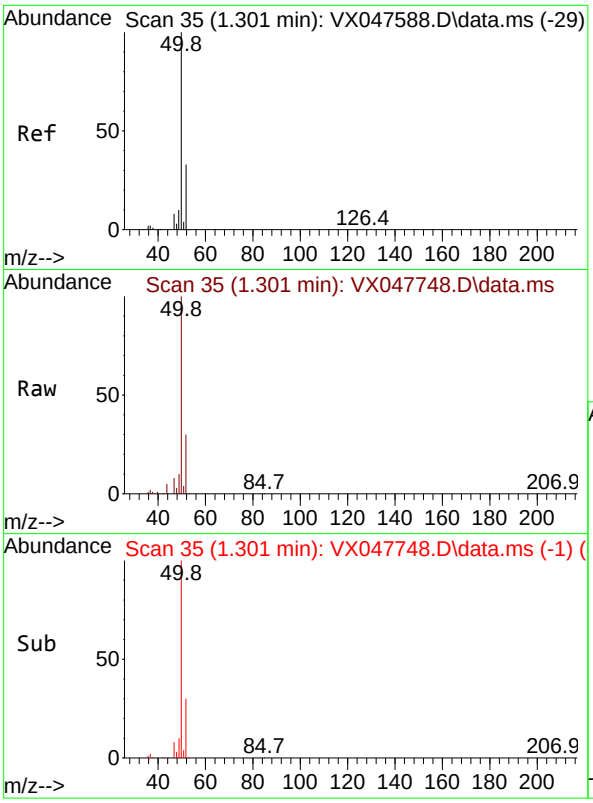


#2
Dichlorodifluoromethane
Concen: 23.585 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 85 Resp: 38327

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.8	47.3



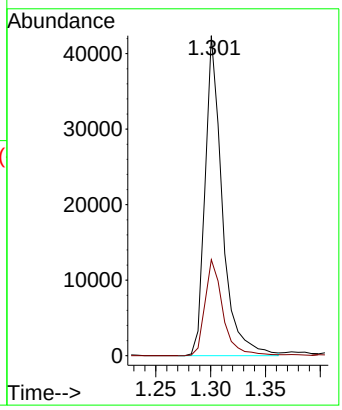


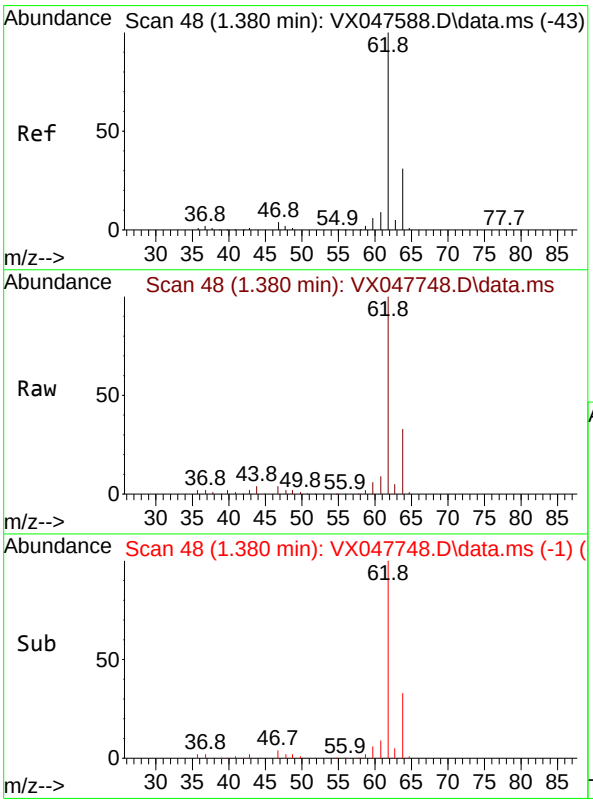
#3
Chloromethane
Concen: 21.693 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 50 Resp: 46331

Ion	Ratio	Lower	Upper
50	100		
52	30.0	26.1	39.1

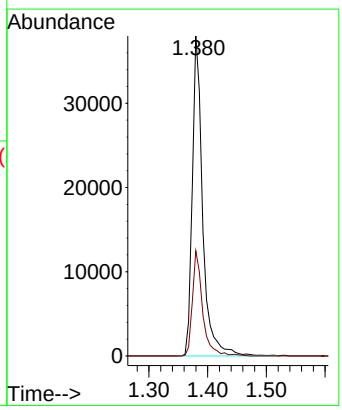


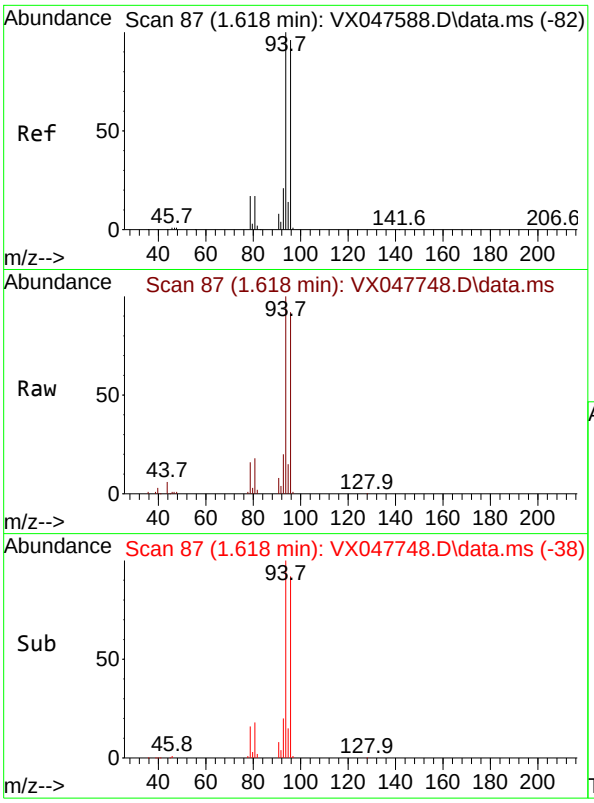


#4
Vinyl Chloride
Concen: 22.415 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 46862

Ion	Ratio	Lower	Upper
62	100		
64	32.9	24.9	37.3



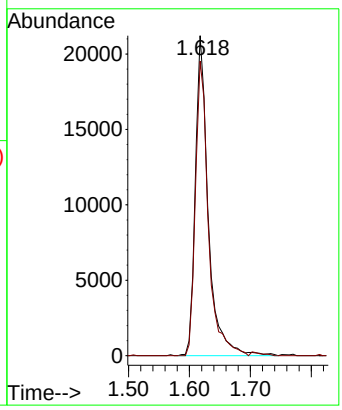


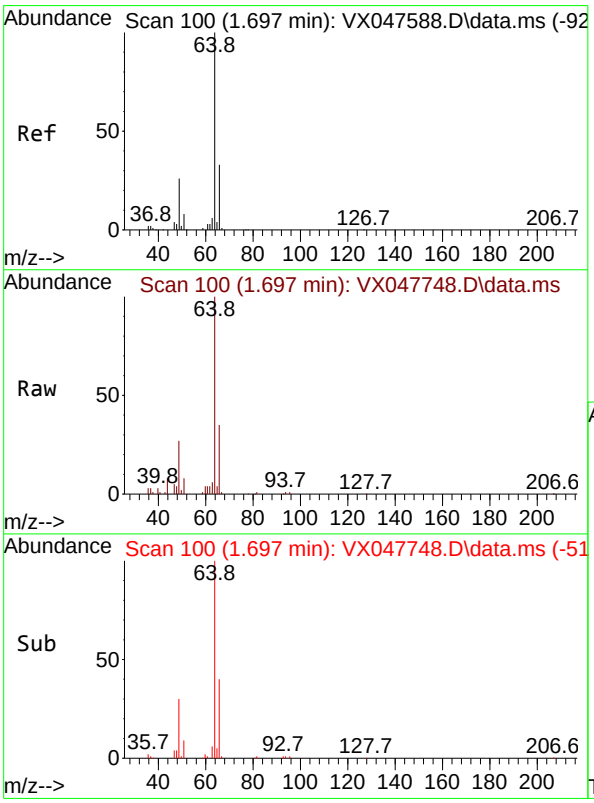
#5
Bromomethane
Concen: 23.536 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 94 Resp: 31202

Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.6	115.0

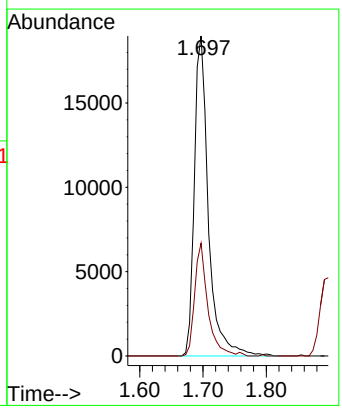


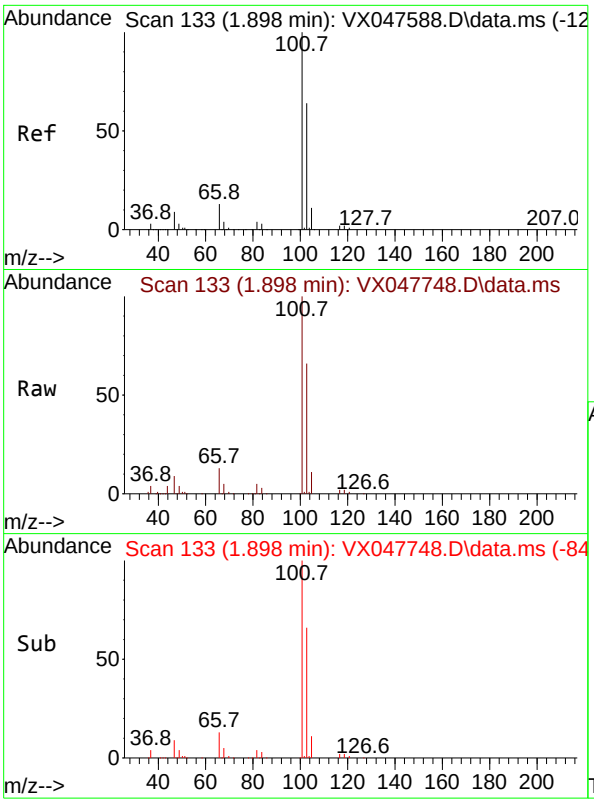


#6
Chloroethane
Concen: 21.002 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 64 Resp: 29347

Ion	Ratio	Lower	Upper
64	100		
66	35.2	26.1	39.1



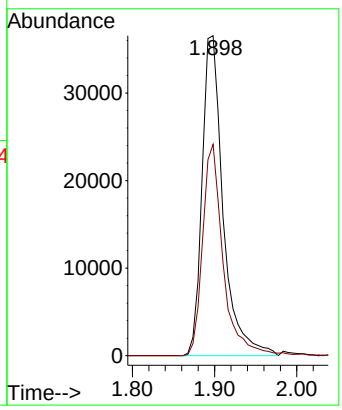


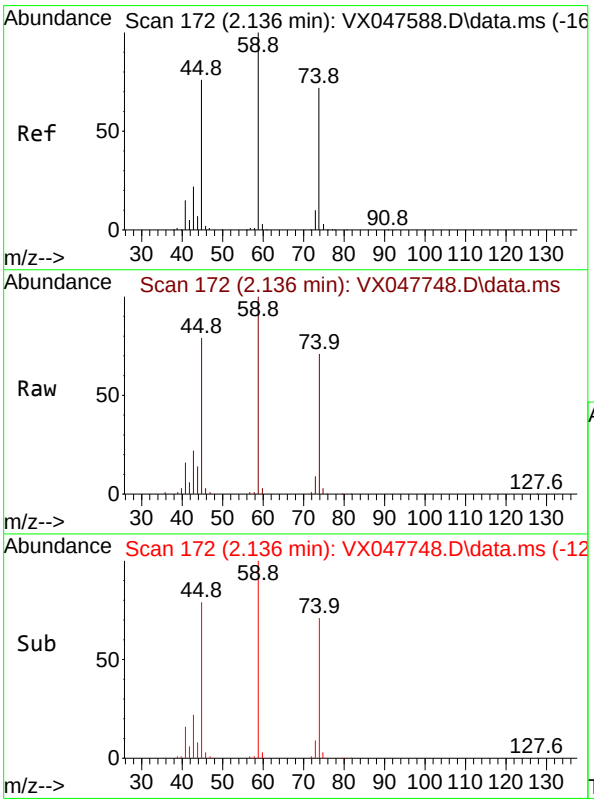
#7
Trichlorofluoromethane
Concen: 20.934 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:101 Resp: 64984

Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.4	77.2

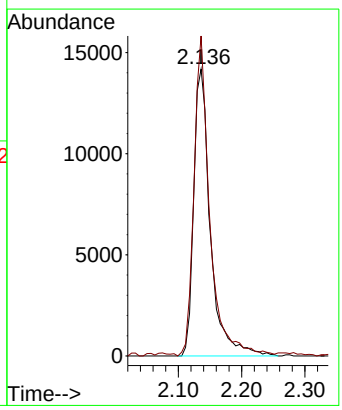


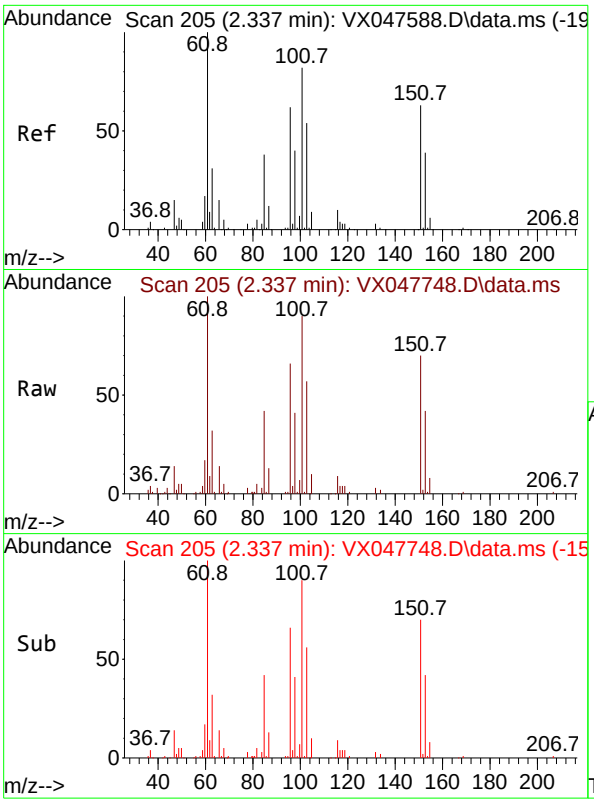


#8
Diethyl Ether
Concen: 20.423 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 74 Resp: 25934

Ion	Ratio	Lower	Upper
74	100		
45	106.7	52.3	156.8



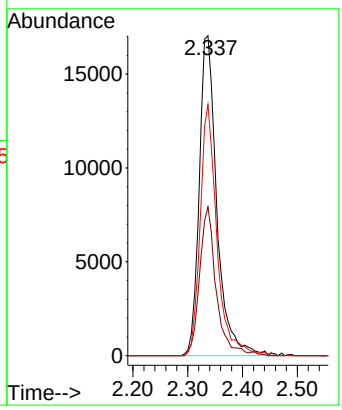


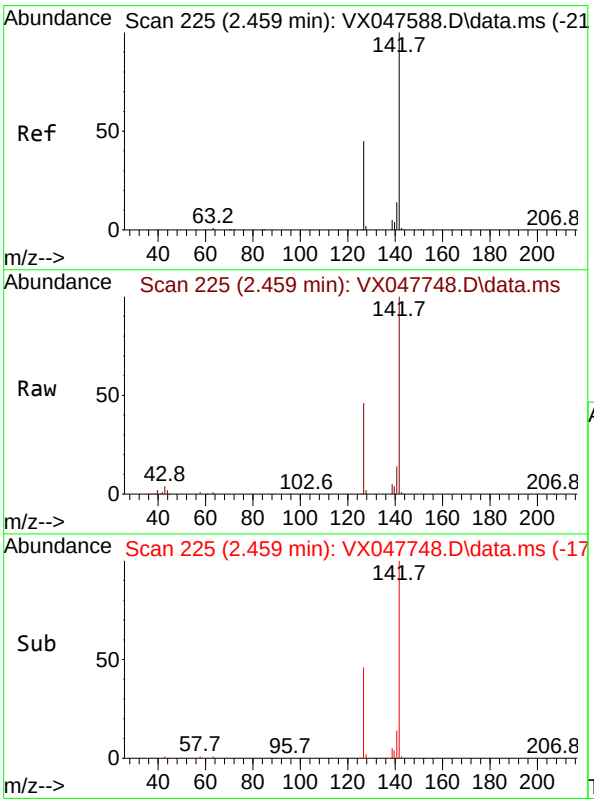
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.007 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:101 Resp: 38130

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.5	53.3
151	74.3	59.4	89.0

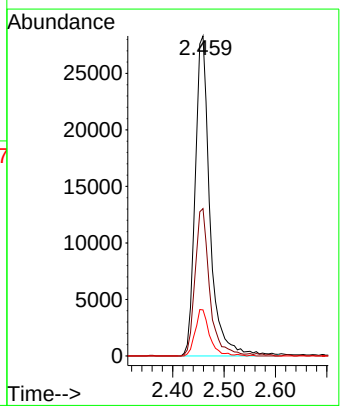


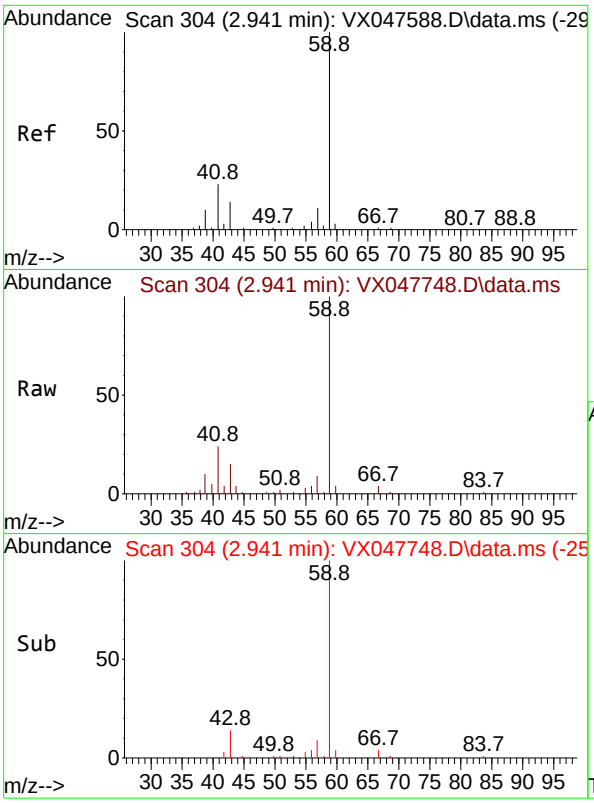


#10
Methyl Iodide
Concen: 20.040 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:142 Resp: 56731

Ion	Ratio	Lower	Upper
142	100		
127	45.4	37.2	55.8
141	13.9	11.4	17.0



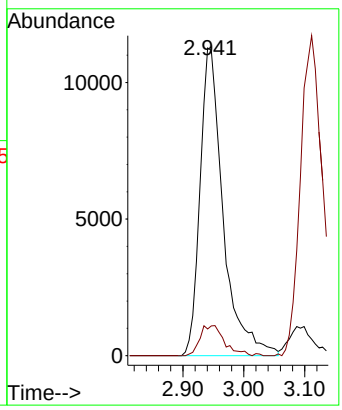


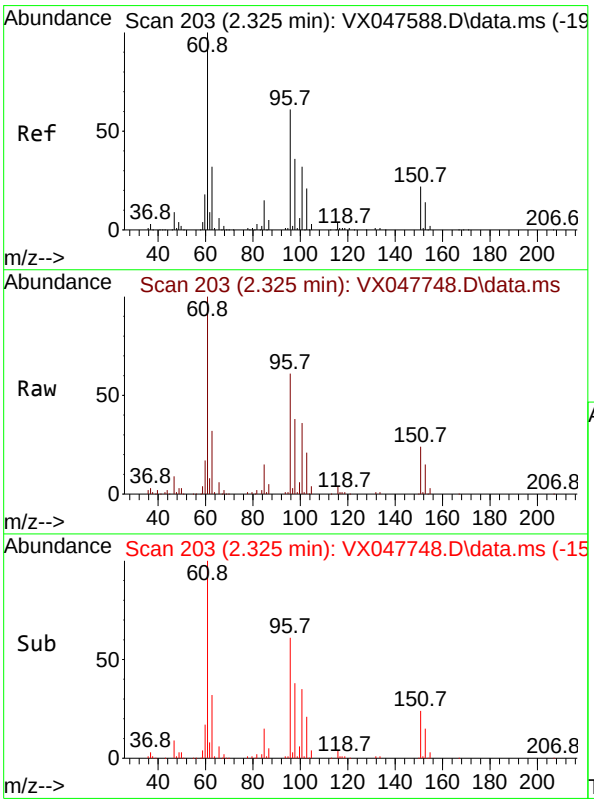
#11
Tert butyl alcohol
Concen: 107.025 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 59 Resp: 29775

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

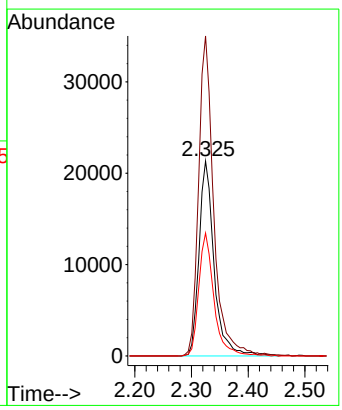


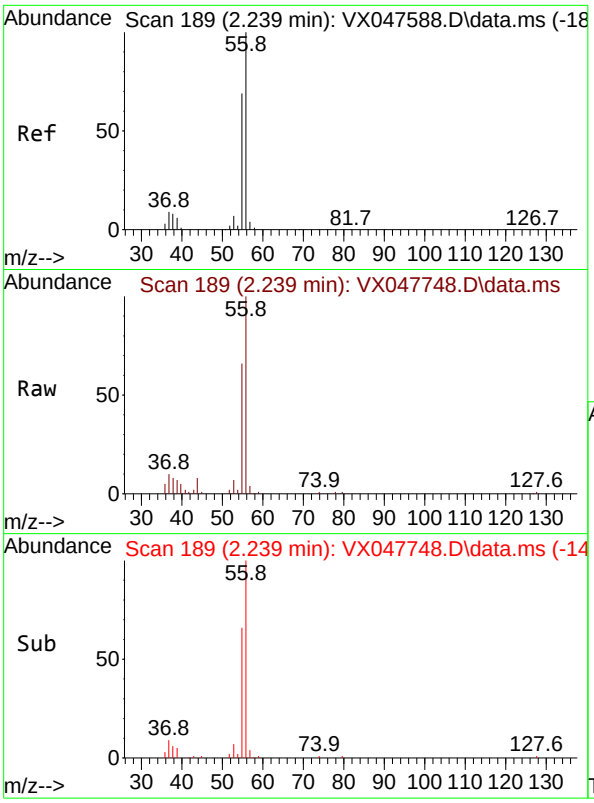


#12
1,1-Dichloroethene
Concen: 21.165 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 39463

Ion	Ratio	Lower	Upper
96	100		
61	164.2	131.0	196.6
98	63.1	47.7	71.5



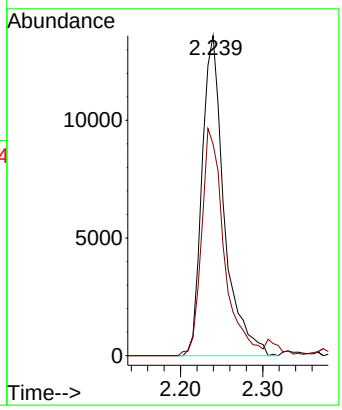


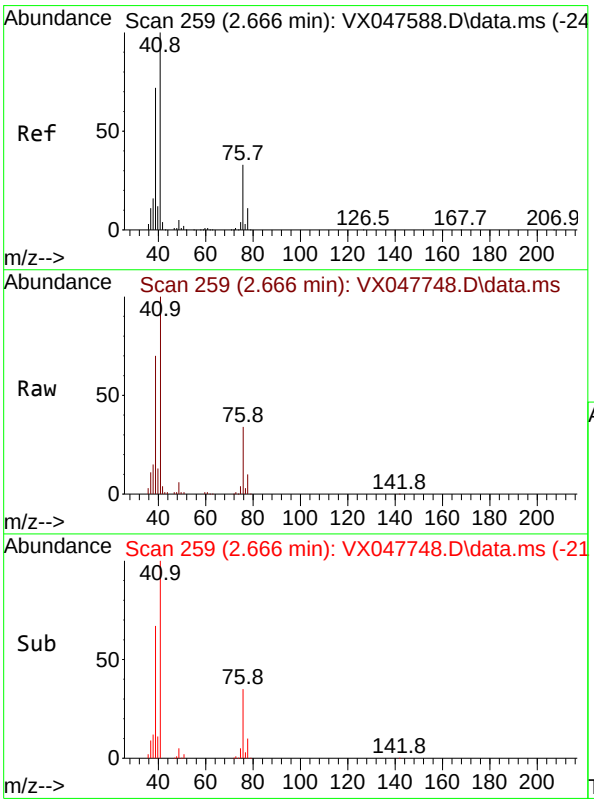
#13
Acrolein
Concen: 99.449 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 56 Resp: 25496

Ion	Ratio	Lower	Upper
56	100		
55	72.0	57.2	85.8

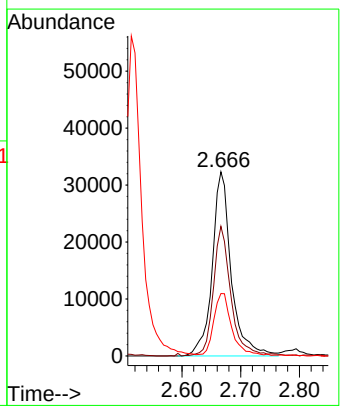


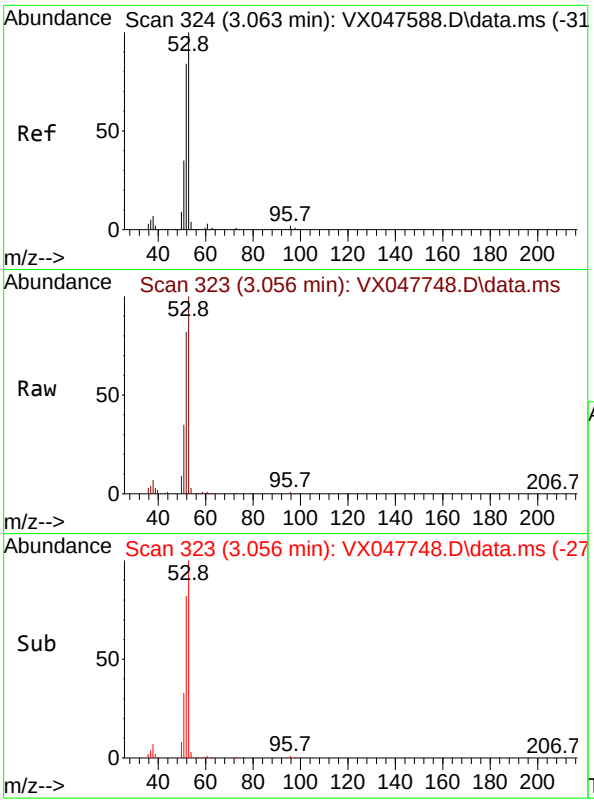


#14
Allyl chloride
Concen: 18.949 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 72907

Ion	Ratio	Lower	Upper
41	100		
39	65.0	54.7	82.1
76	31.9	25.7	38.5



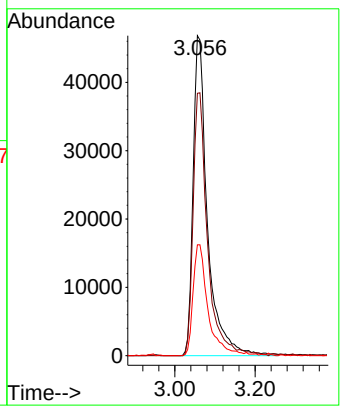


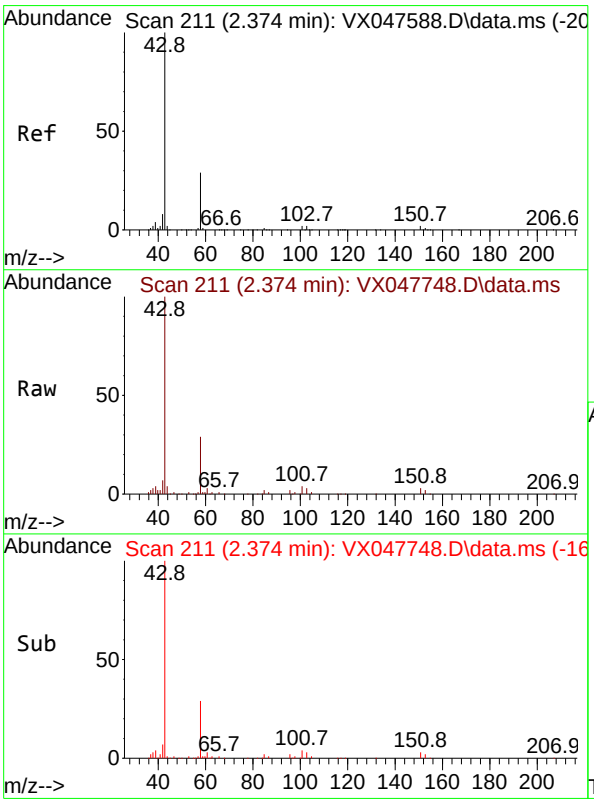
#15
Acrylonitrile
Concen: 113.065 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 53 Resp: 116513

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.4	99.6
51	36.5	29.5	44.3

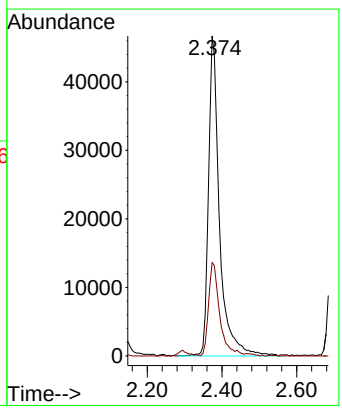


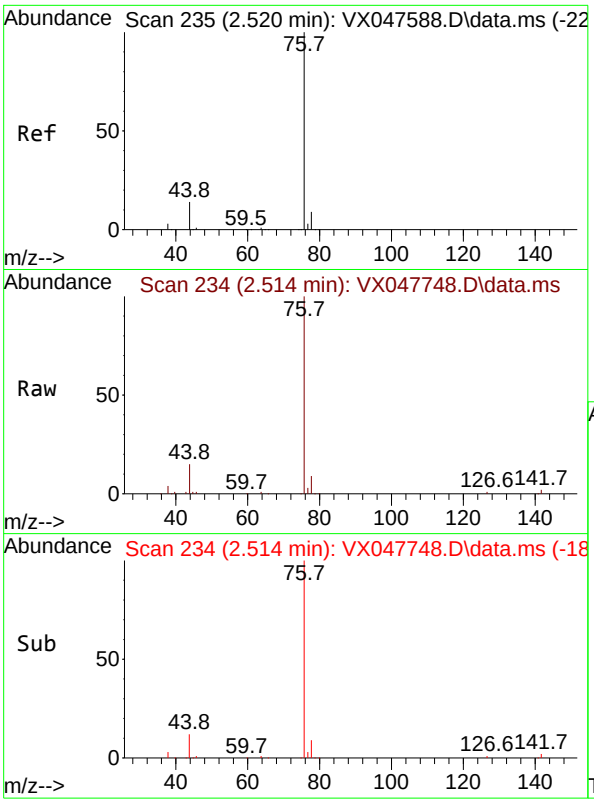


#16
Acetone
Concen: 87.685 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 95237

Ion	Ratio	Lower	Upper
43	100		
58	29.1	23.4	35.0



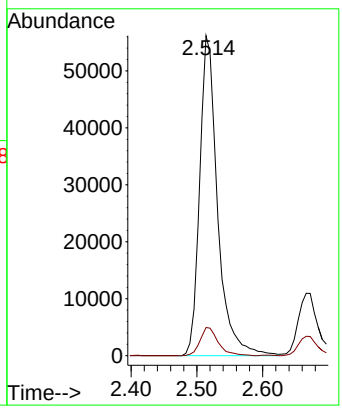


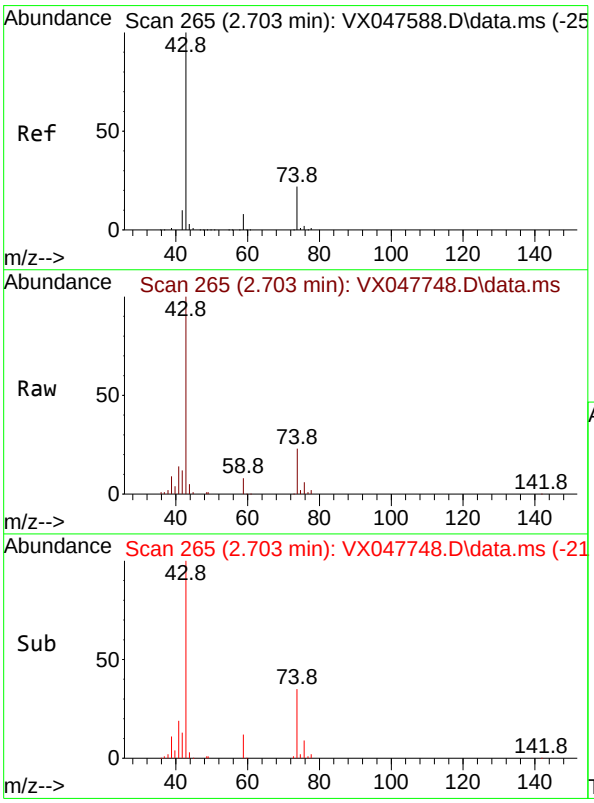
#17
Carbon Disulfide
Concen: 20.869 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 76 Resp: 106524

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2

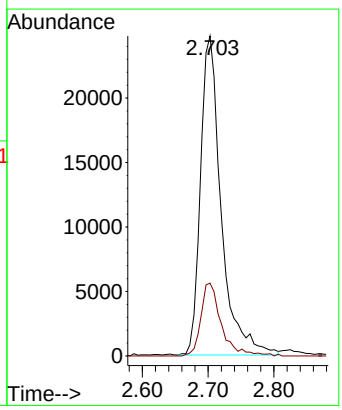


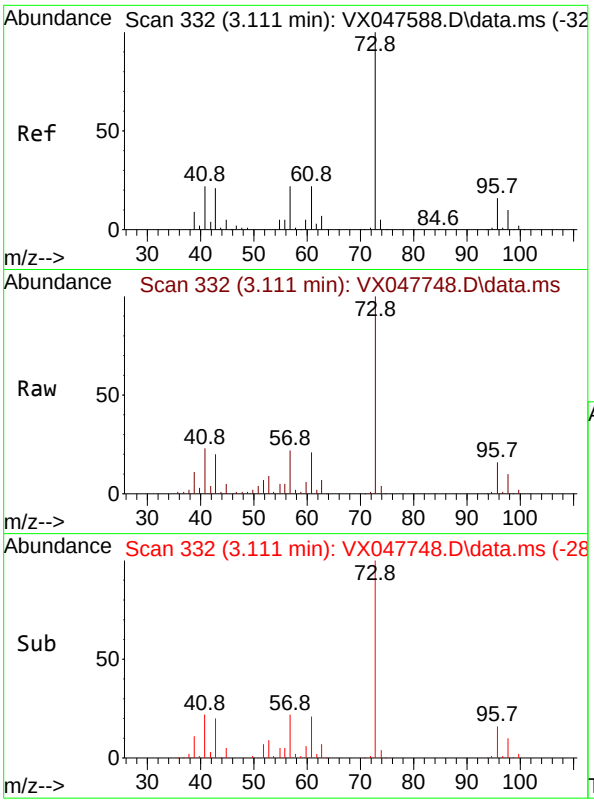


#18
Methyl Acetate
Concen: 22.400 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 54144

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.4	26.2



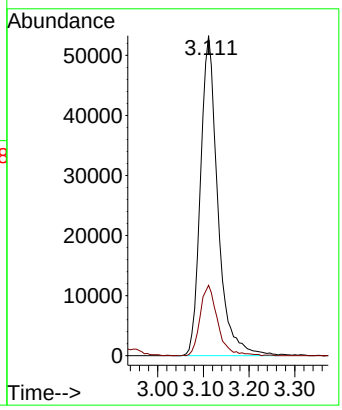


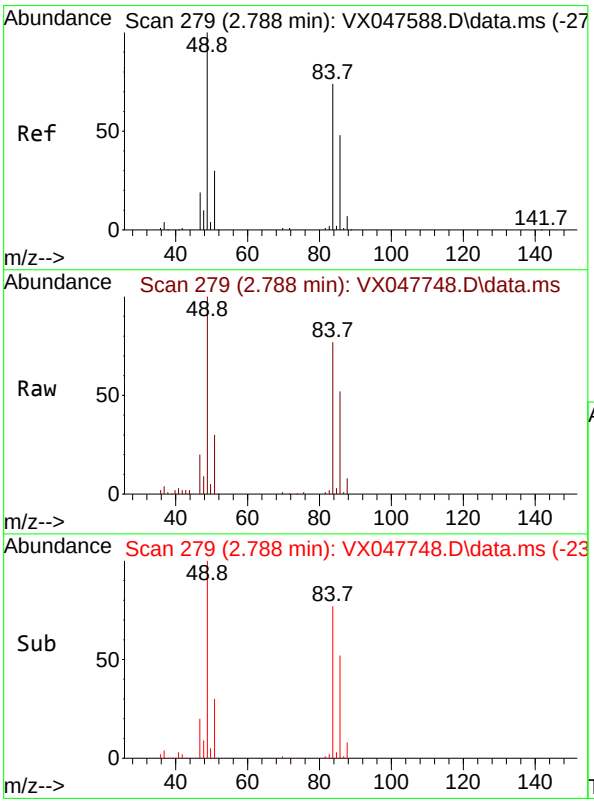
#19
Methyl tert-butyl Ether
Concen: 20.586 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 73 Resp: 140115

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2

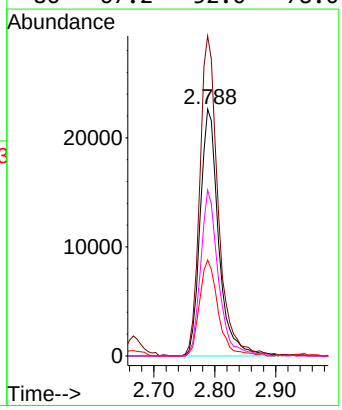


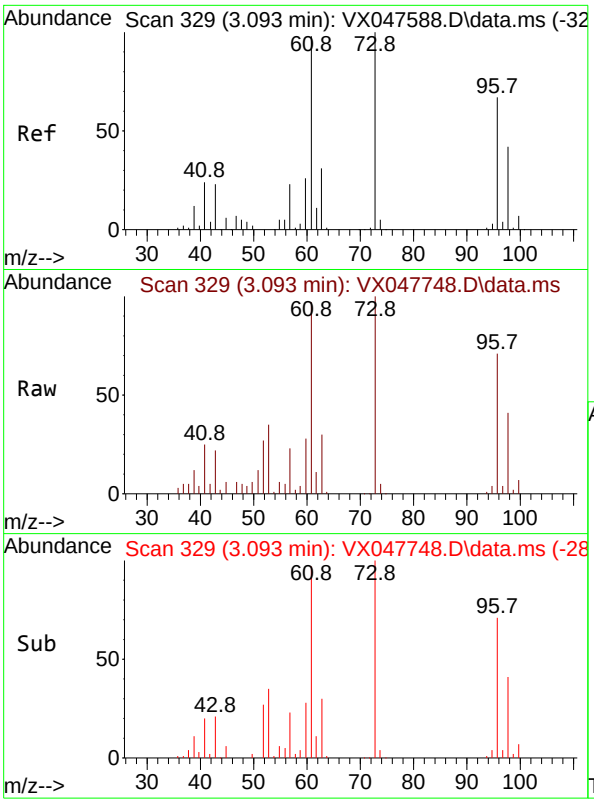


#20
Methylene Chloride
Concen: 20.740 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 84 Resp: 47681

Ion	Ratio	Lower	Upper
84	100		
49	129.6	108.6	162.8
51	38.9	32.6	48.8
86	67.2	52.0	78.0



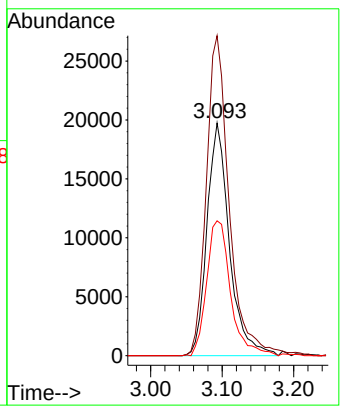


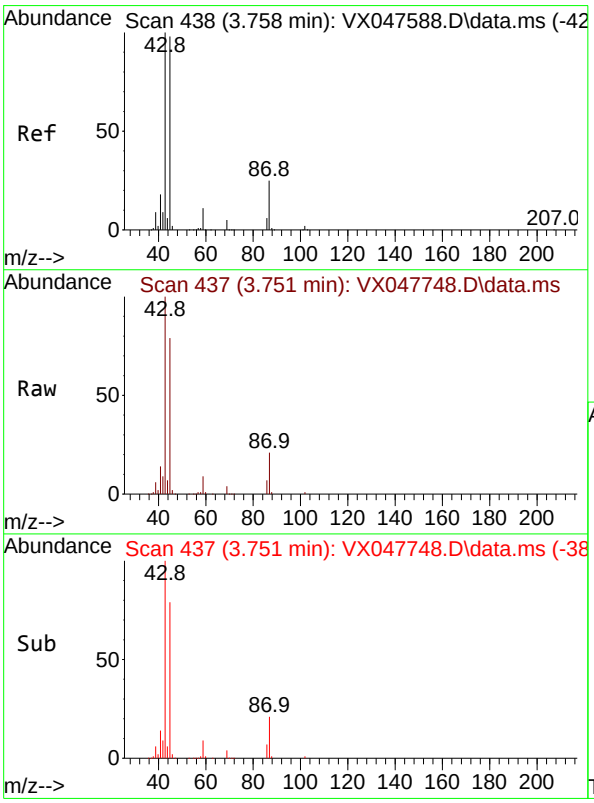
#21
trans-1,2-Dichloroethene
Concen: 21.362 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 96 Resp: 42881

Ion	Ratio	Lower	Upper
96	100		
61	137.6	116.2	174.2
98	58.0	49.3	73.9

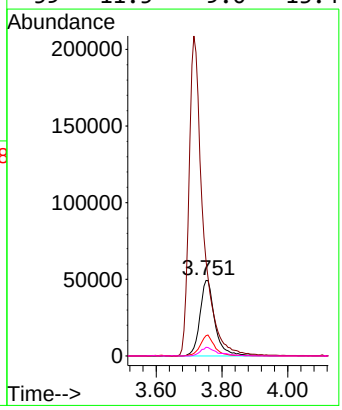


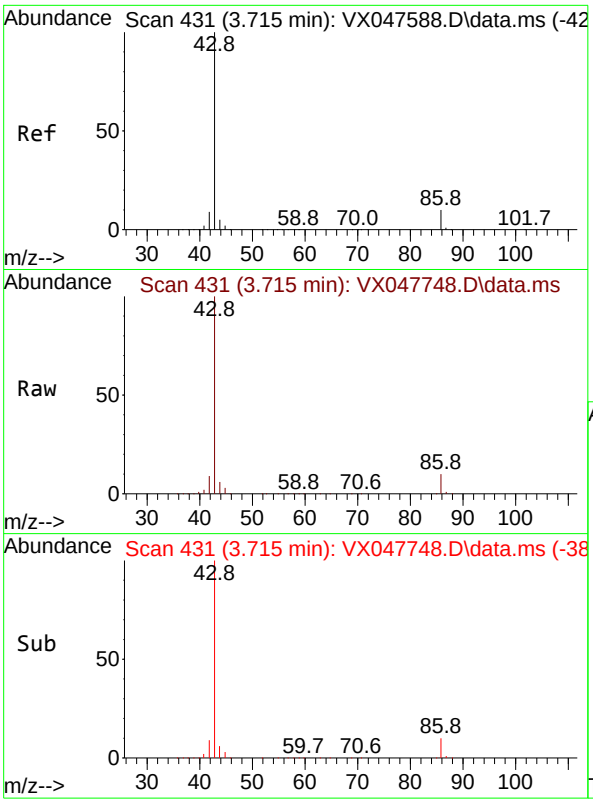


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 45 Resp: 155798

Ion	Ratio	Lower	Upper
45	100		
43	125.6	81.0	121.4#
87	26.9	20.3	30.5
59	11.5	9.0	13.4



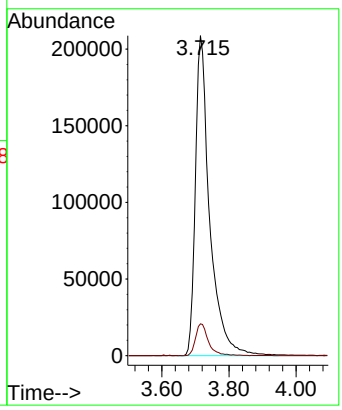


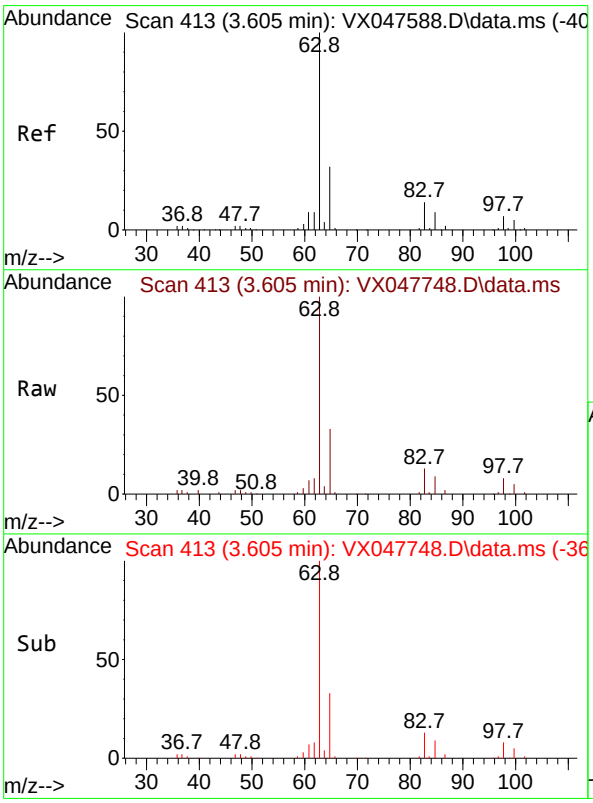
#23
Vinyl Acetate
Concen: 103.461 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 617433

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

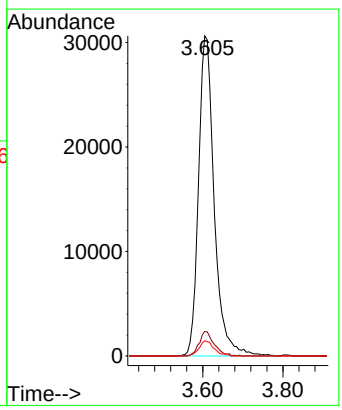


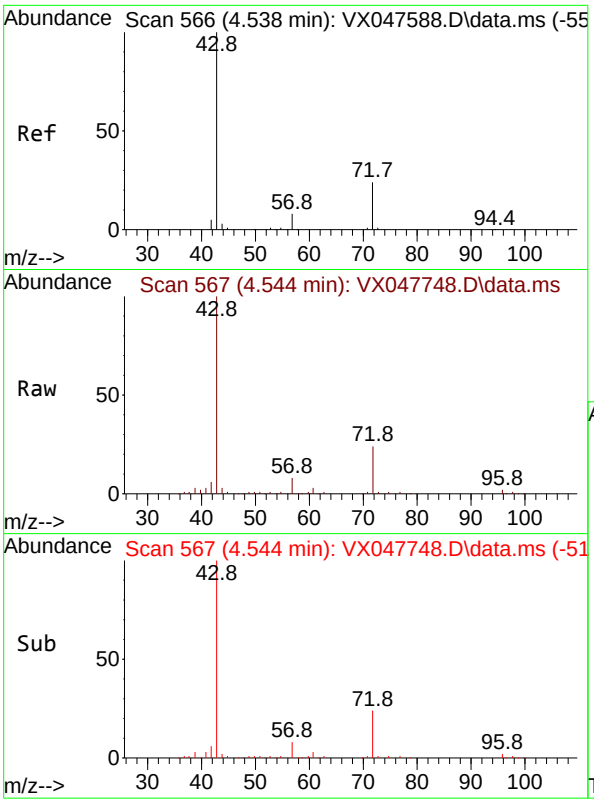


#24
1,1-Dichloroethane
Concen: 21.012 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 83274

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.8	11.2
100	4.8	2.3	6.9



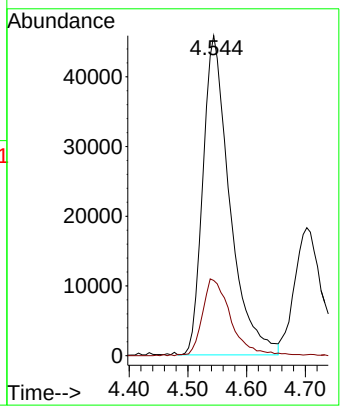


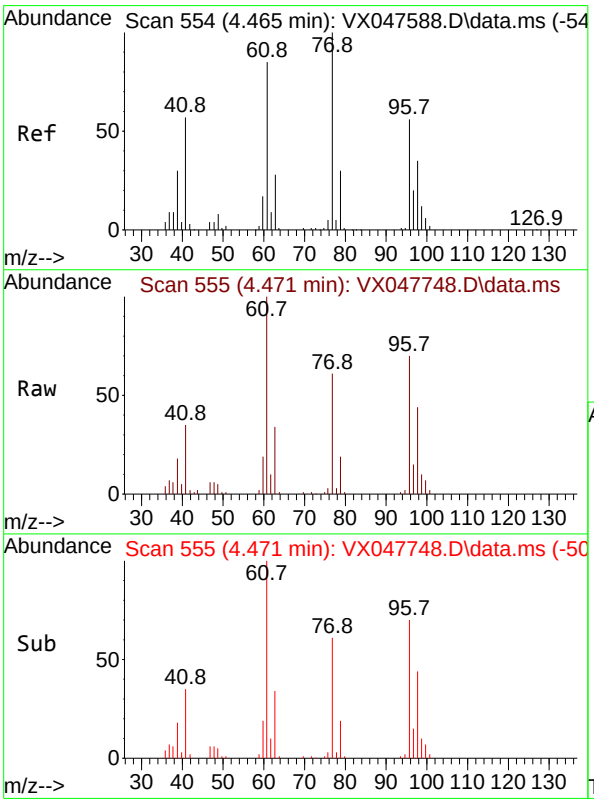
#25
2-Butanone
Concen: 106.972 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 144925

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.1	30.1

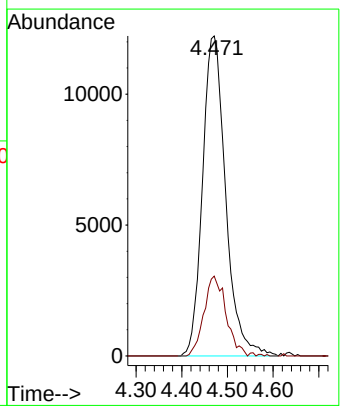


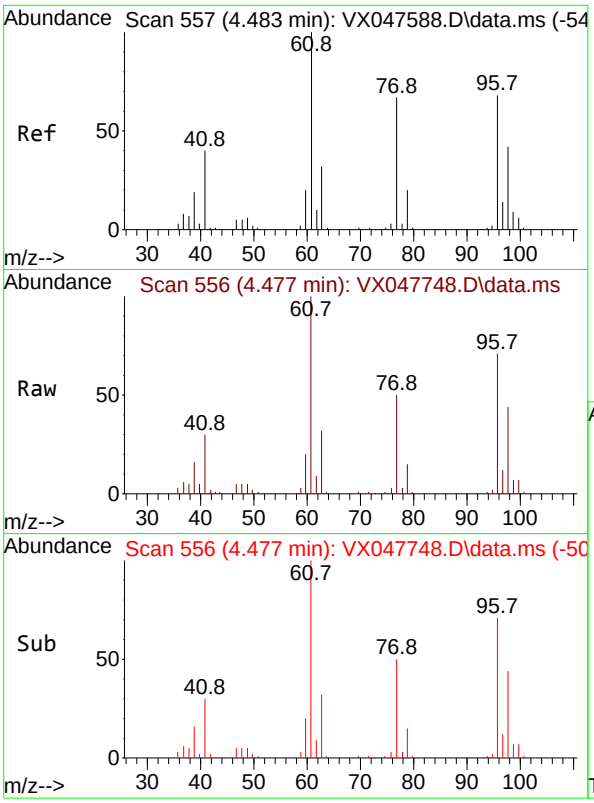


#26
2,2-Dichloropropane
Concen: 13.043 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 77 Resp: 42968

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7



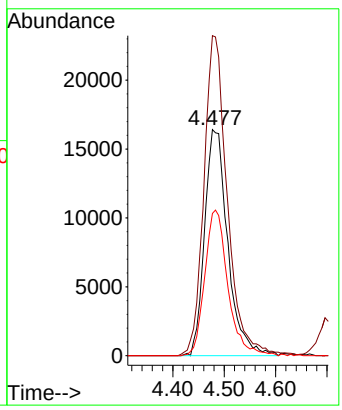


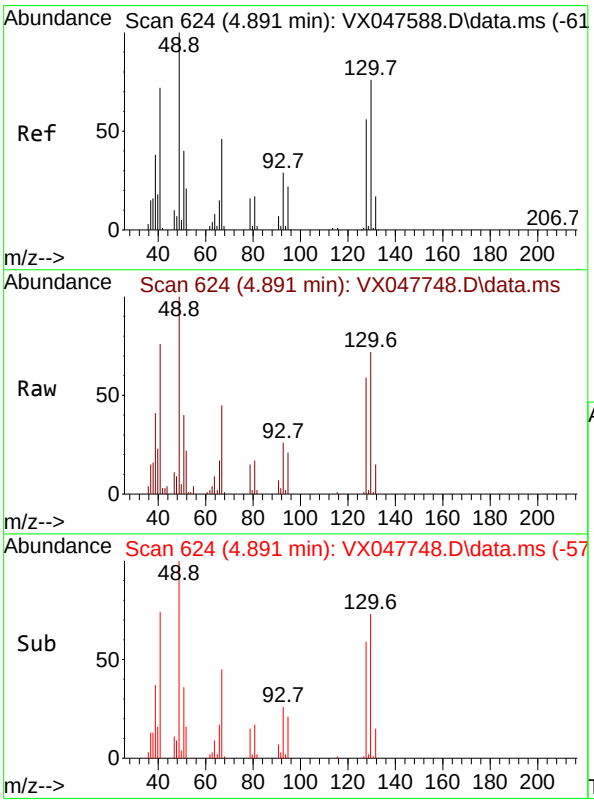
#27
cis-1,2-Dichloroethene
Concen: 20.894 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 96 Resp: 51366

Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	303.2
98	64.2	0.0	127.8

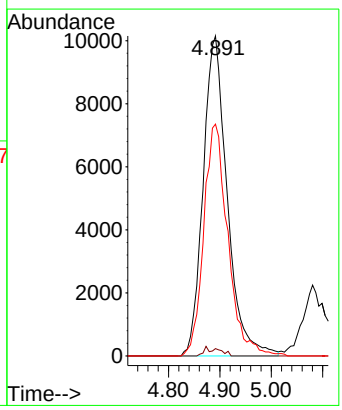


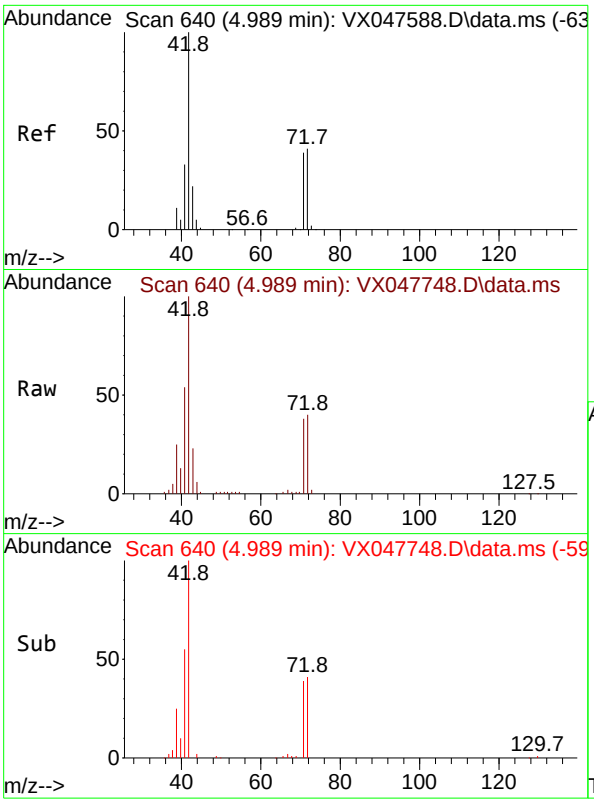


#28
Bromochloromethane
Concen: 19.085 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 49 Resp: 33021

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.2
130	72.6	57.8	86.8



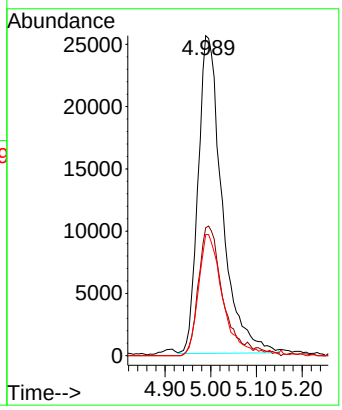


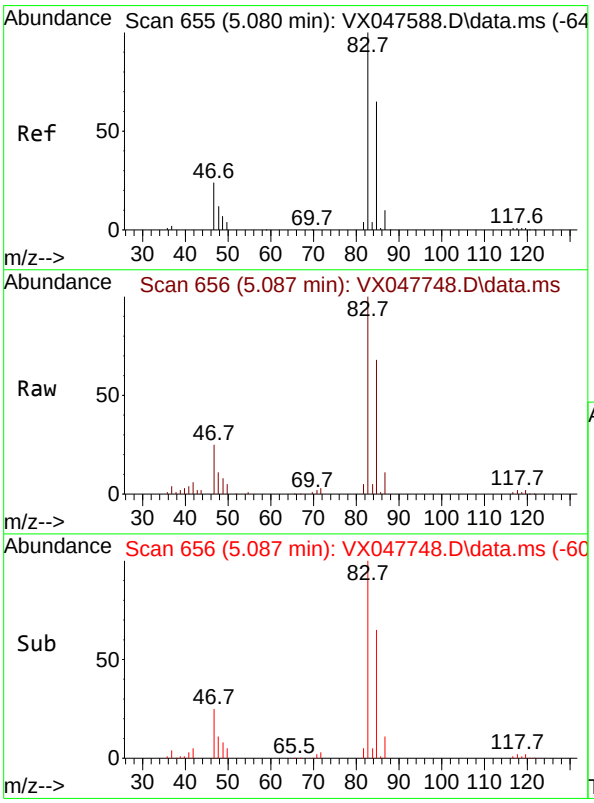
#29
Tetrahydrofuran
Concen: 114.248 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 42 Resp: 93114

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.0	31.9	47.9

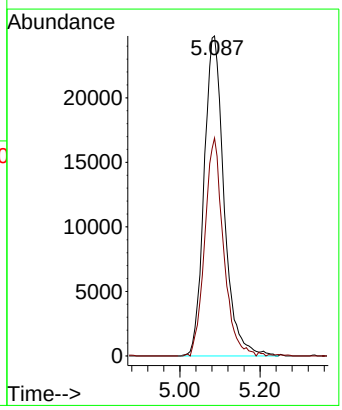


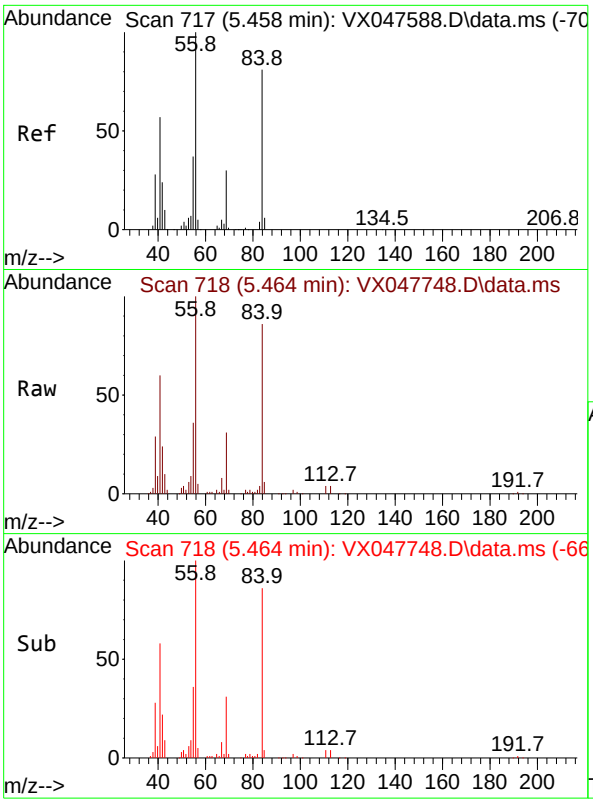


#30
Chloroform
Concen: 21.345 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 85486

Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.8	77.6



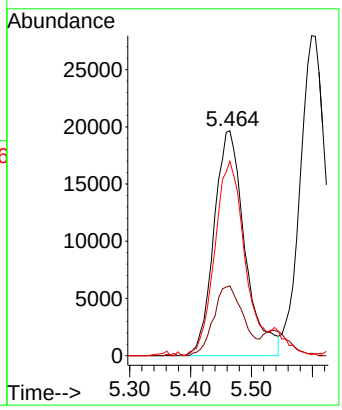


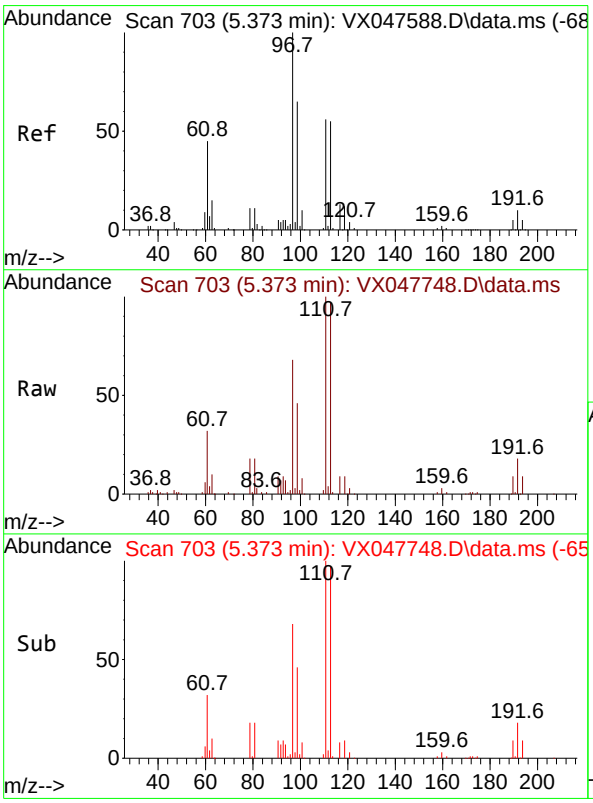
#31
Cyclohexane
Concen: 20.939 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 56 Resp: 69116

Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	84.6	64.6	97.0

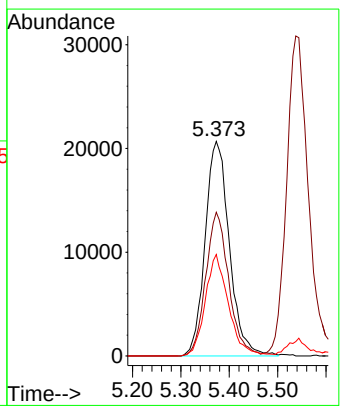


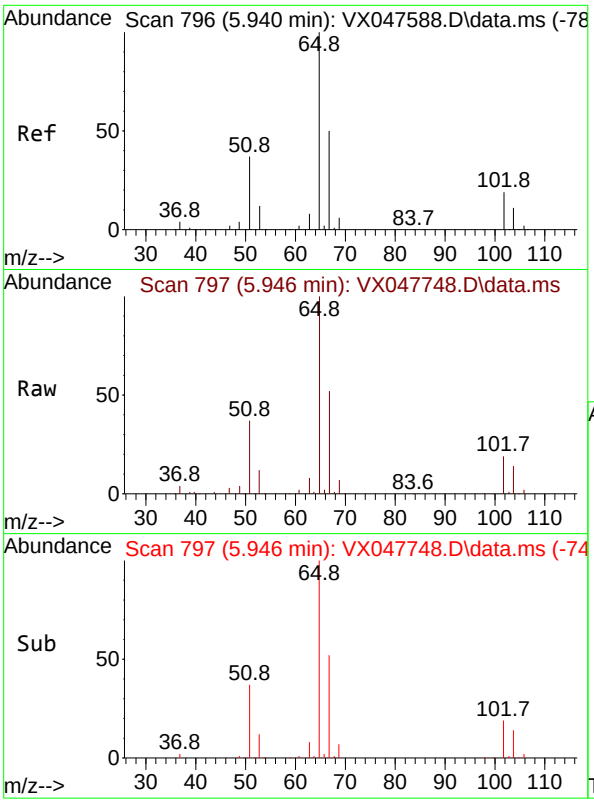


#32
1,1,1-Trichloroethane
Concen: 21.168 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 97 Resp: 71907

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	45.4	35.8	53.8



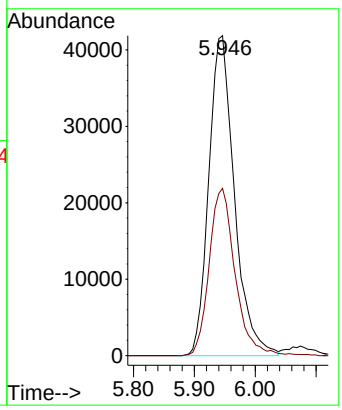


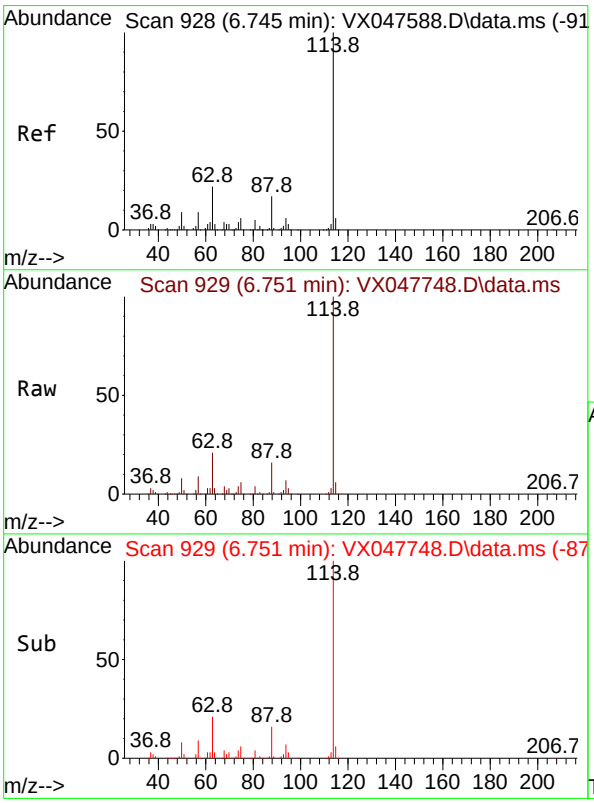
#33
1,2-Dichloroethane-d4
Concen: 48.994 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 65 Resp: 122385

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0

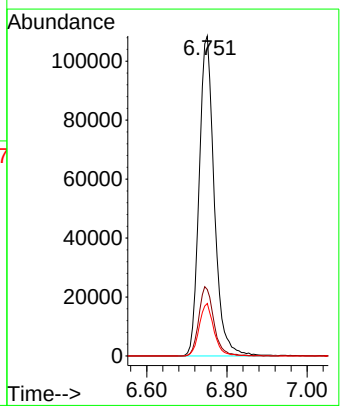


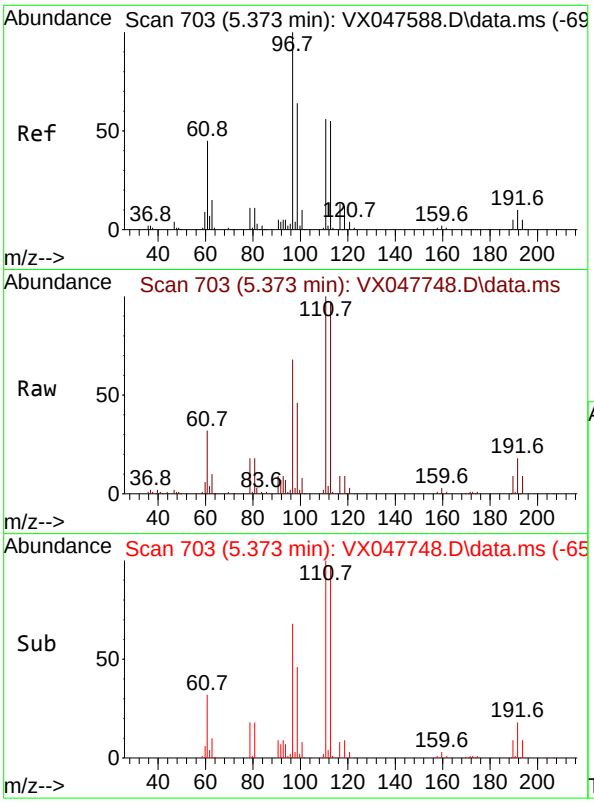


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:114 Resp: 284011

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	44.0
88	16.4	0.0	34.2



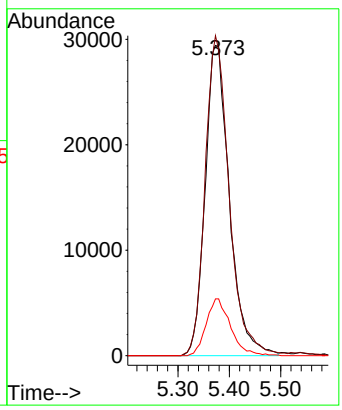


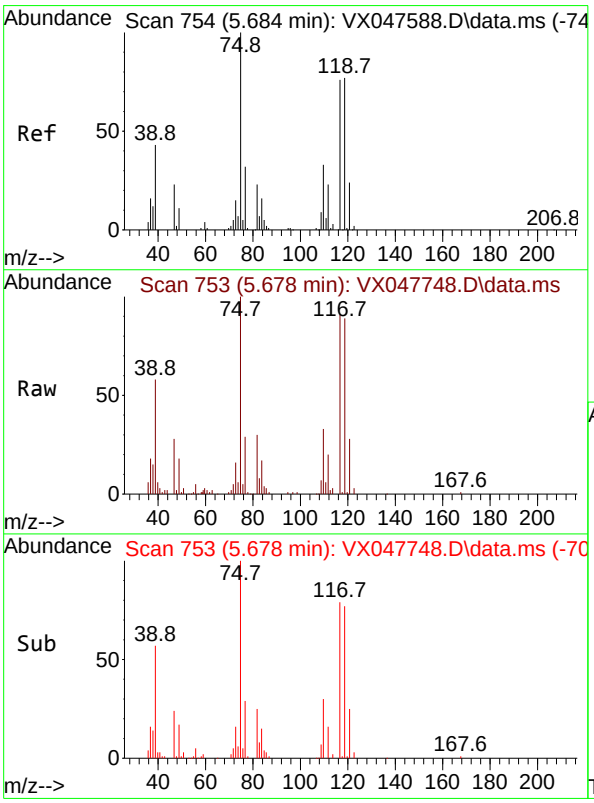
#35
Dibromofluoromethane
Concen: 50.711 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:113 Resp: 96590

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	18.4	14.2	21.4

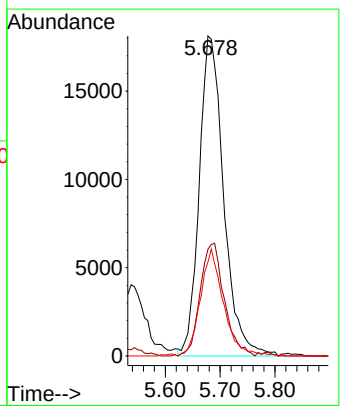


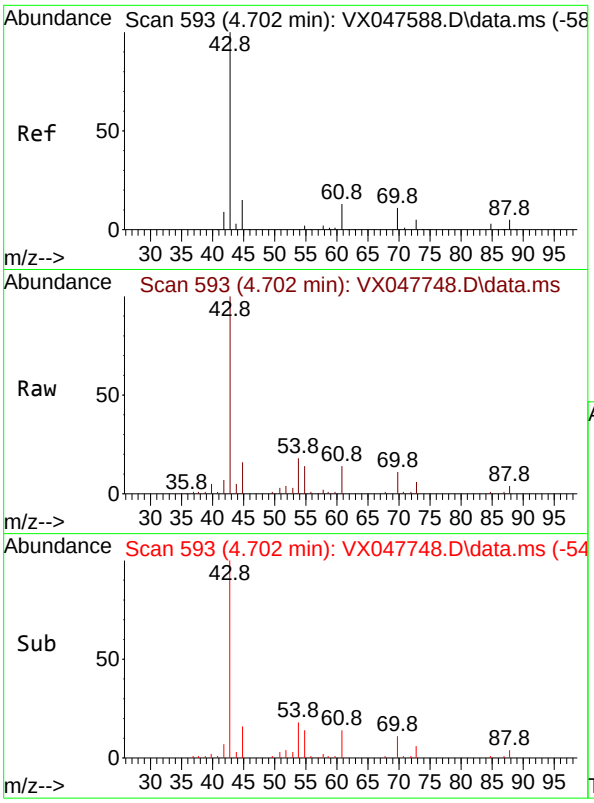


#36
1,1-Dichloropropene
Concen: 20.197 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 56214

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	31.5	24.3	36.5



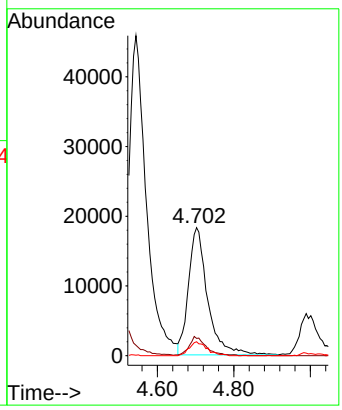


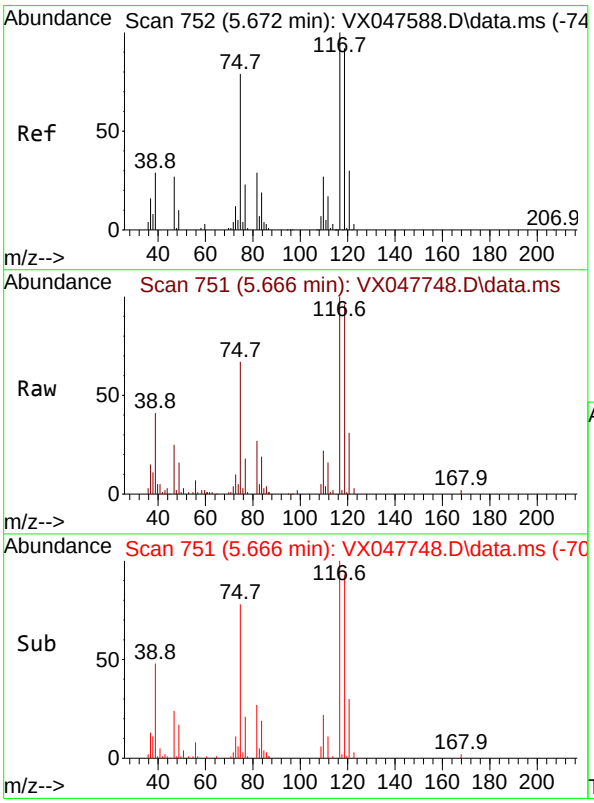
#37
Ethyl Acetate
Concen: 21.220 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 63237

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.2	7.9	11.9

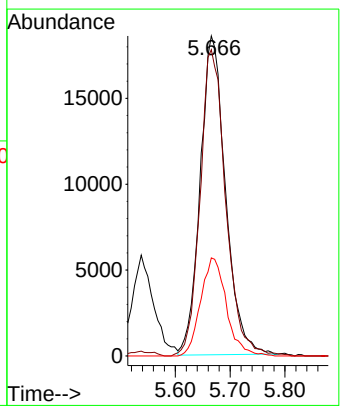


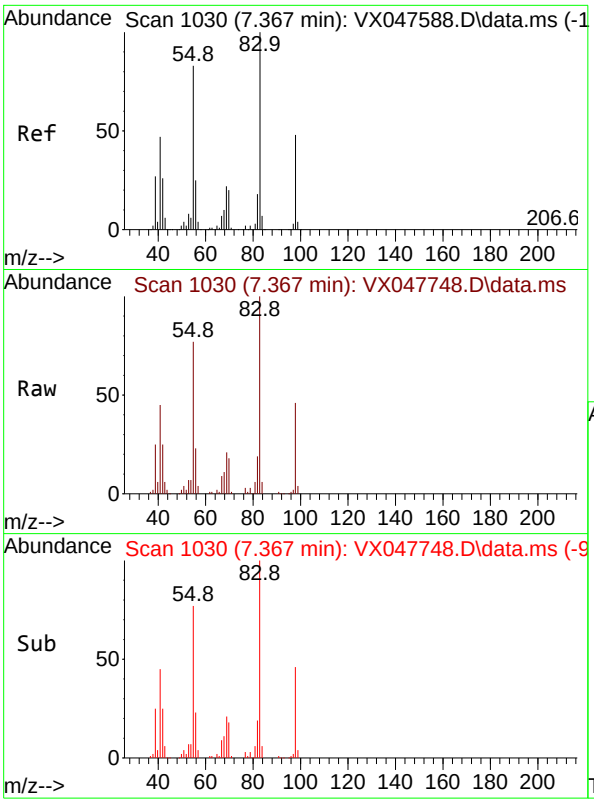


#38
Carbon Tetrachloride
Concen: 19.672 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 59490

Ion	Ratio	Lower	Upper
117	100		
119	95.6	73.4	110.2
121	30.8	23.8	35.6



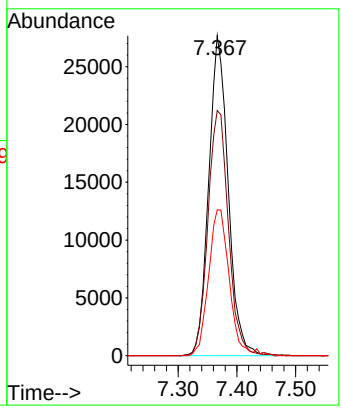


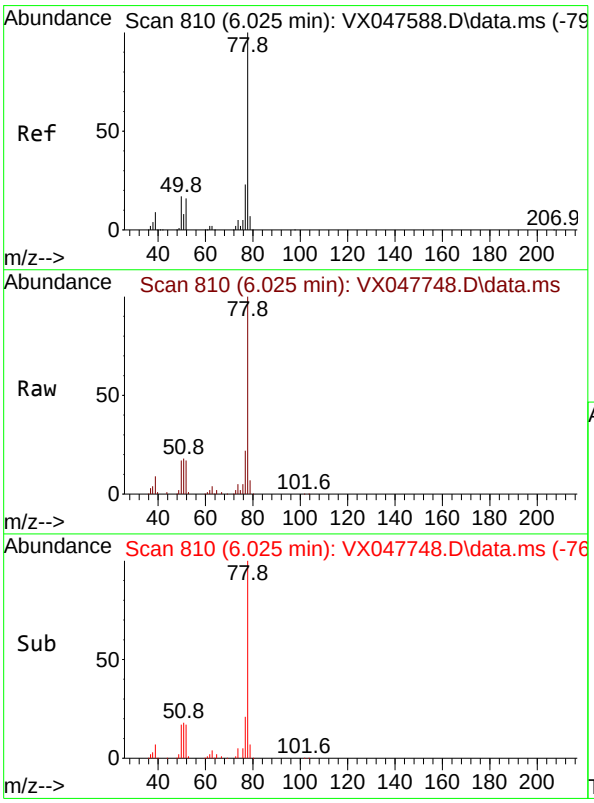
#39
Methylcyclohexane
Concen: 20.138 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 83 Resp: 63625

Ion	Ratio	Lower	Upper
83	100		
55	76.6	66.4	99.6
98	45.6	38.1	57.1

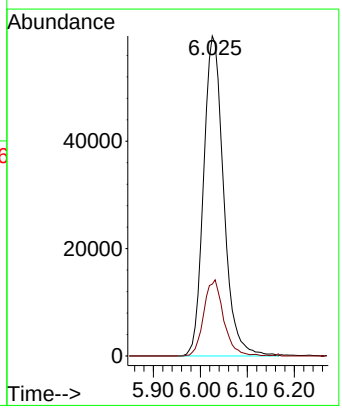


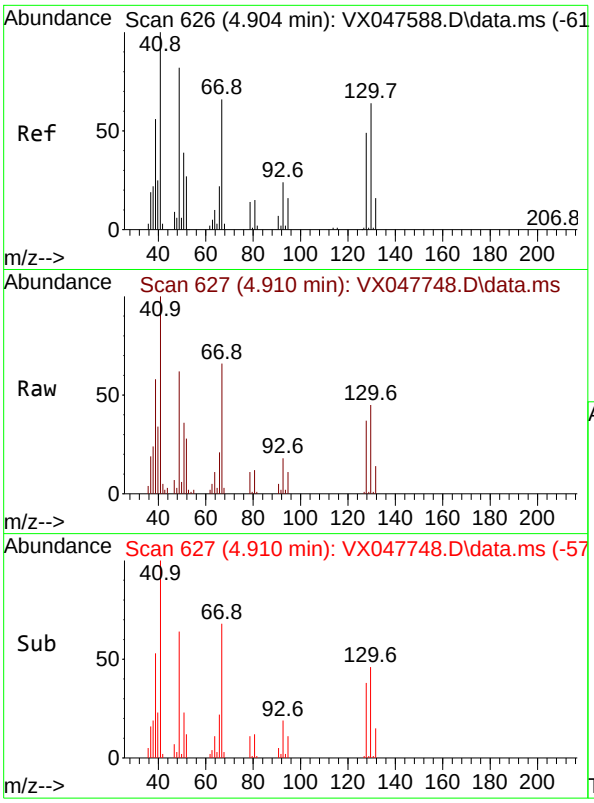


#40
Benzene
Concen: 20.873 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 78 Resp: 176451

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.8	28.2



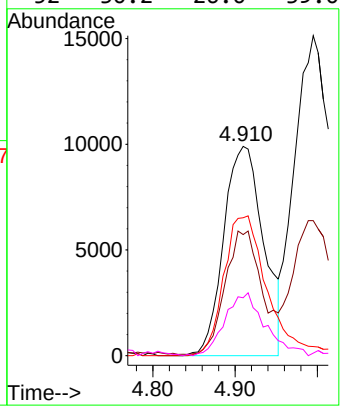


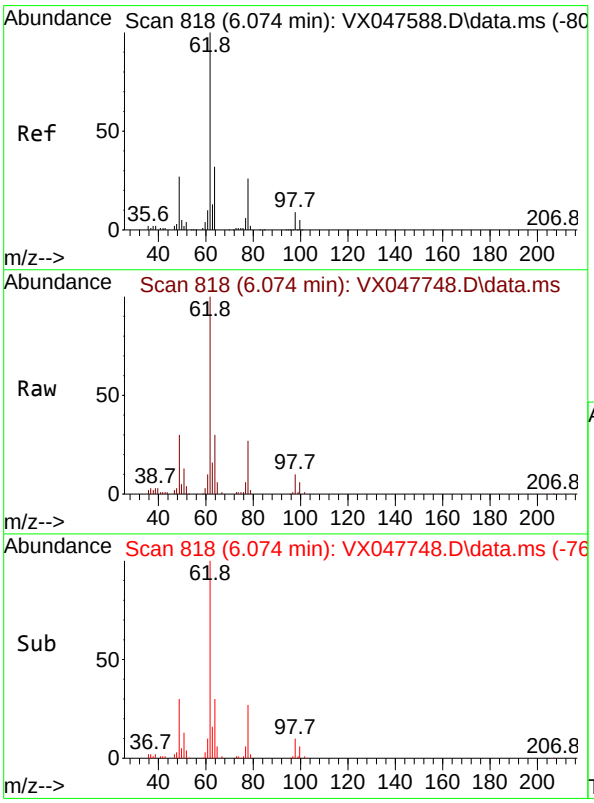
#41
Methacrylonitrile
Concen: 21.696 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 41 Resp: 33379

Ion	Ratio	Lower	Upper
41	100		
39	54.8	43.3	64.9
67	73.2	58.6	87.8
52	30.2	26.0	39.0

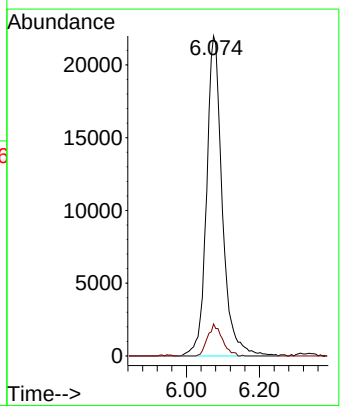


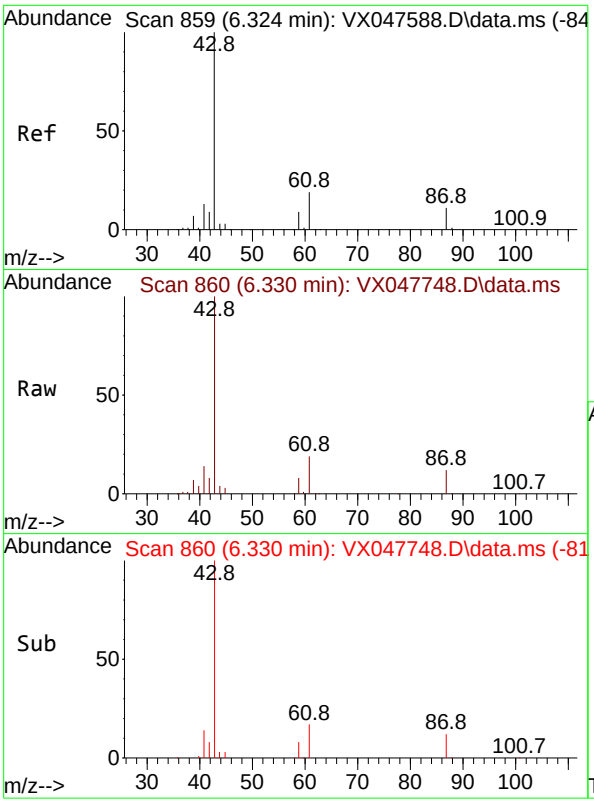


#42
1,2-Dichloroethane
Concen: 20.366 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 65506

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0



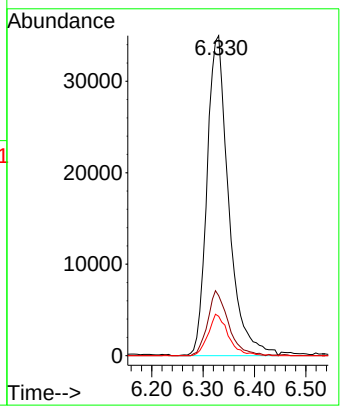


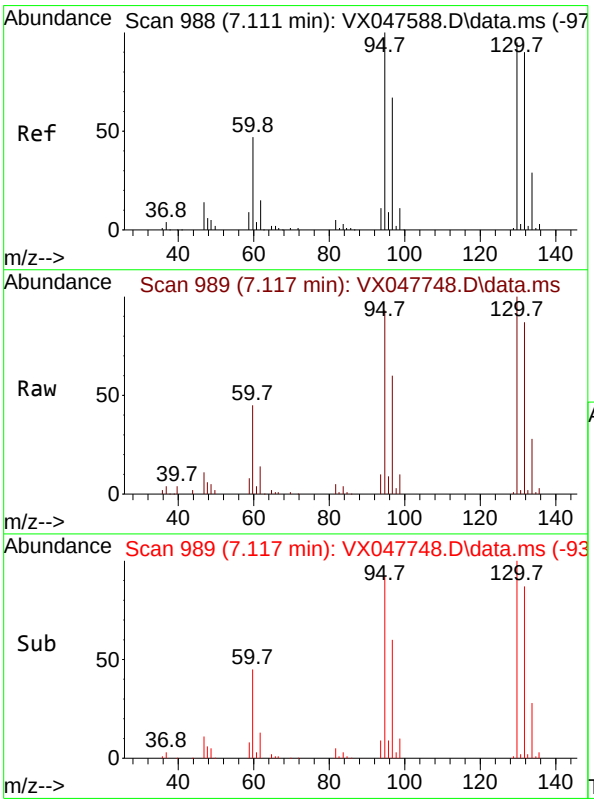
#43
Isopropyl Acetate
Concen: 20.917 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 102233

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.1	9.6	14.4

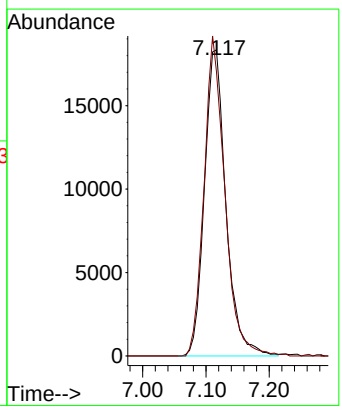


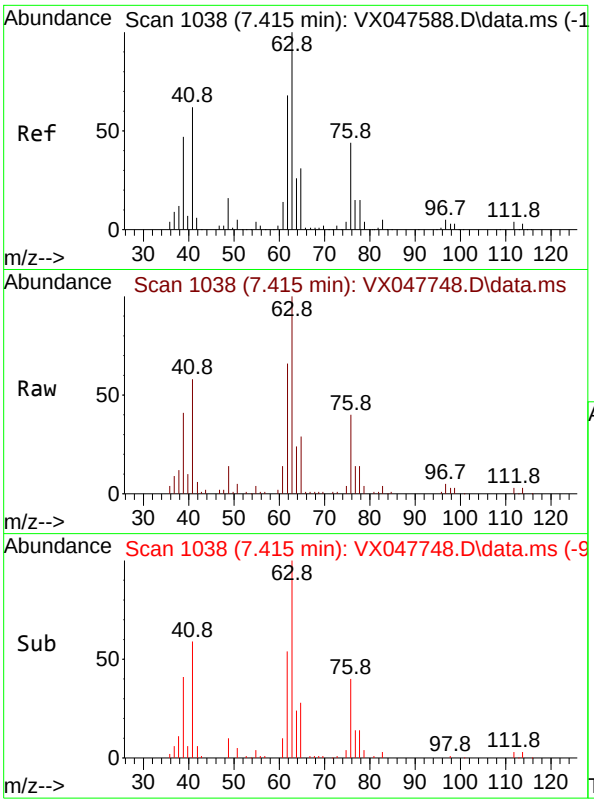


#44
Trichloroethene
Concen: 21.254 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:130 Resp: 43438

Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	210.8



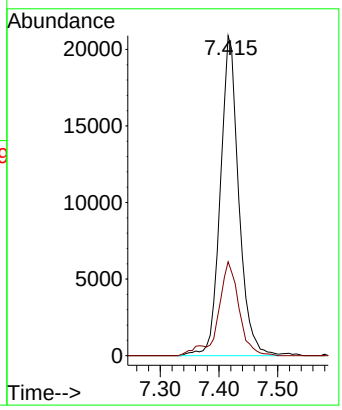


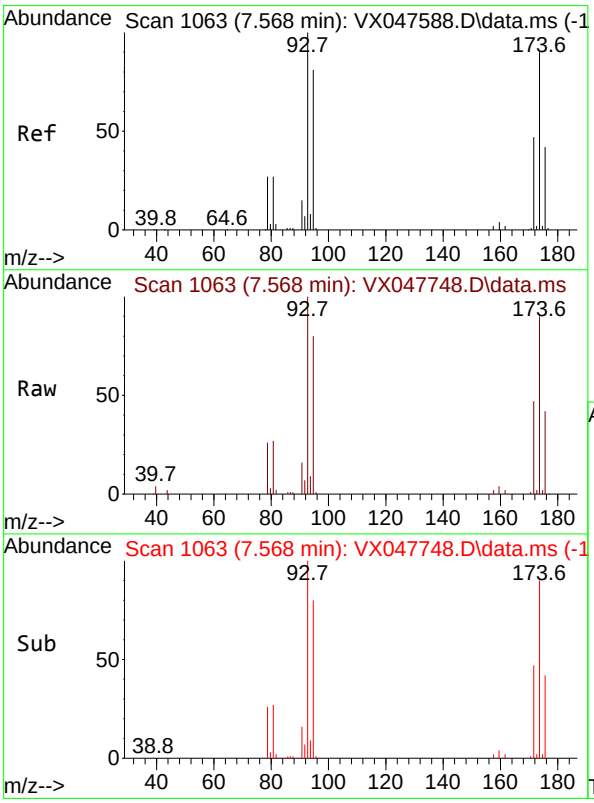
#45
1,2-Dichloropropane
Concen: 21.024 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 63 Resp: 45508

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1

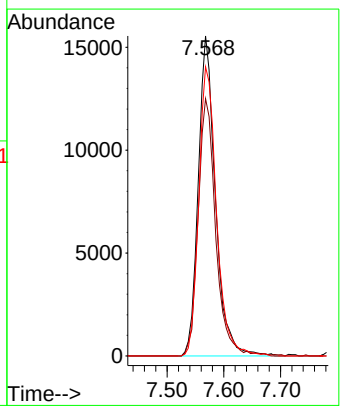


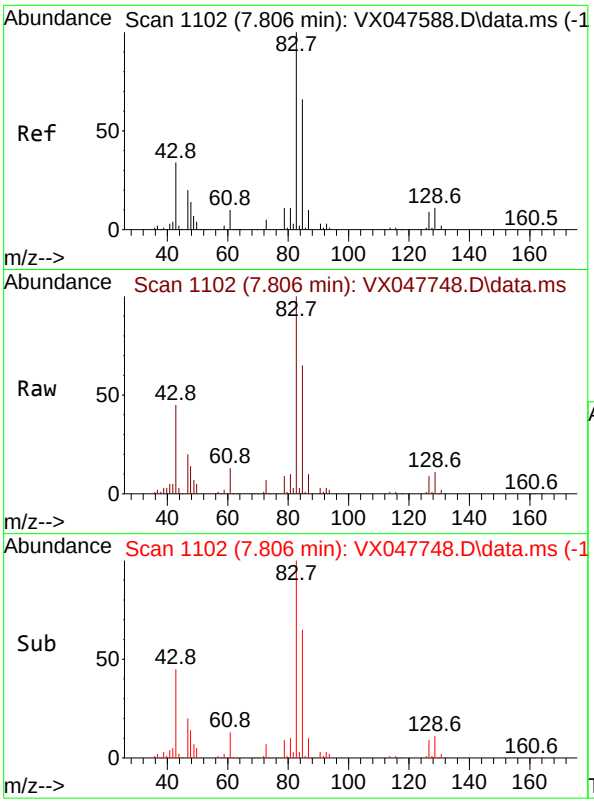


#46
Dibromomethane
Concen: 20.725 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 93 Resp: 32646

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	93.9	71.6	107.4



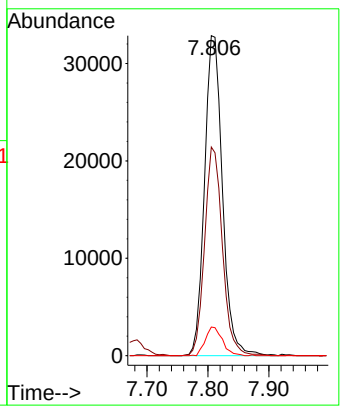


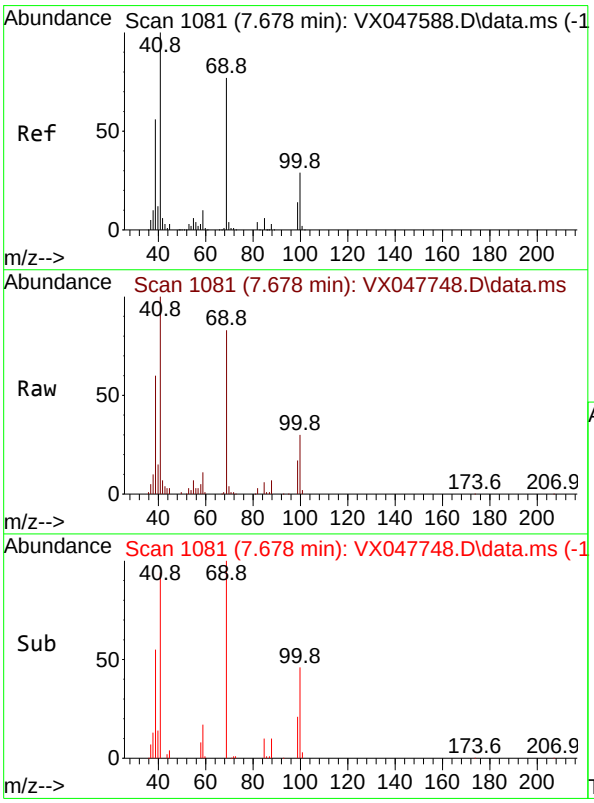
#47
Bromodichloromethane
Concen: 20.681 ug/l
RT: 7.806 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 83 Resp: 67223

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.5	78.7
127	8.9	6.9	10.3

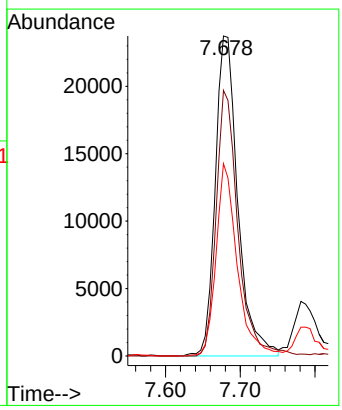


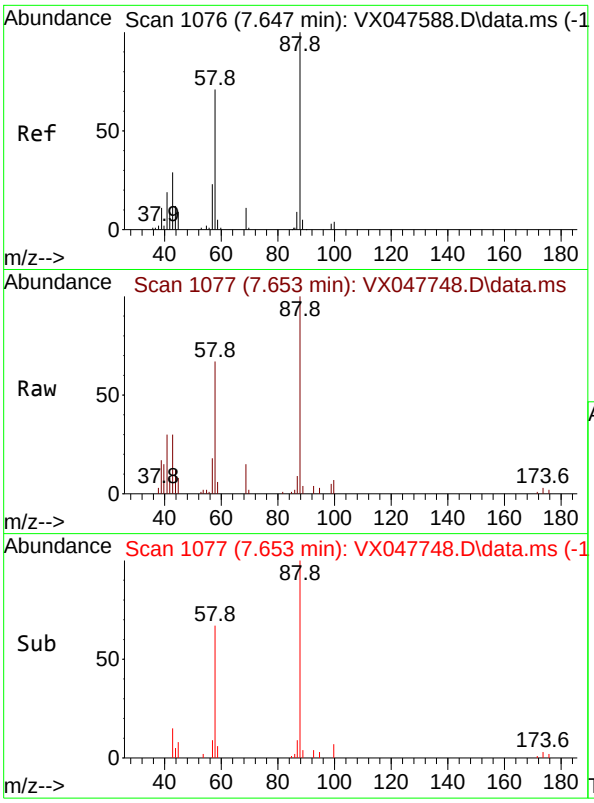


#48
Methyl methacrylate
Concen: 20.524 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 49967

Ion	Ratio	Lower	Upper
41	100		
69	80.1	61.4	92.2
39	56.5	45.8	68.6



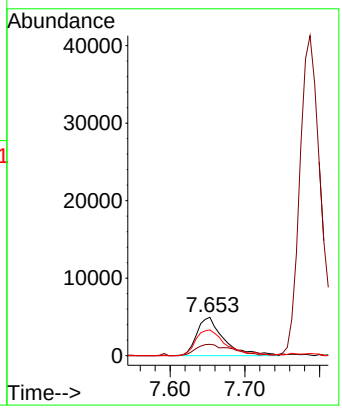


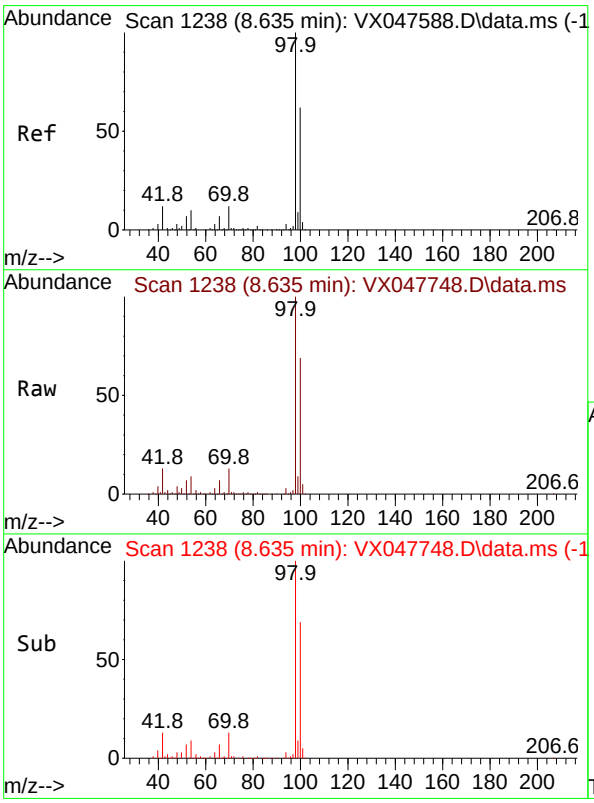
#49
1,4-Dioxane
Concen: 503.790 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 88 Resp: 12395

Ion	Ratio	Lower	Upper
88	100		
43	40.4	30.2	45.2
58	75.2	59.5	89.3

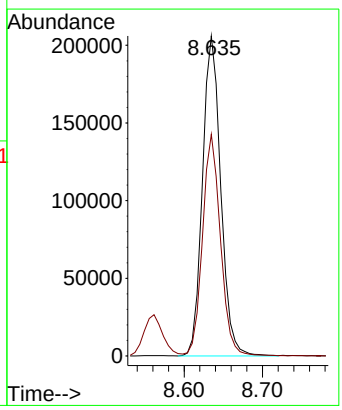


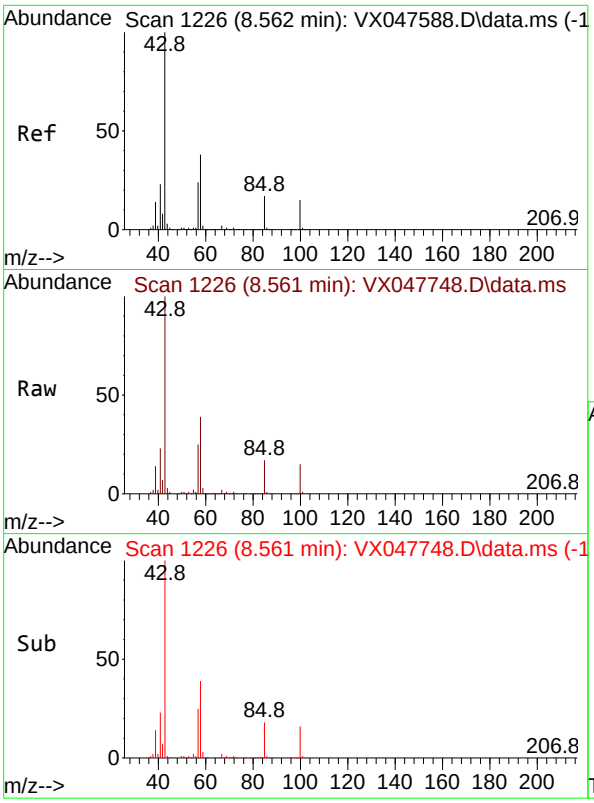


#50
Toluene-d8
Concen: 50.607 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 98 Resp: 333541

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4



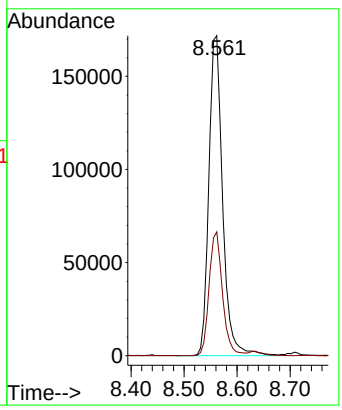


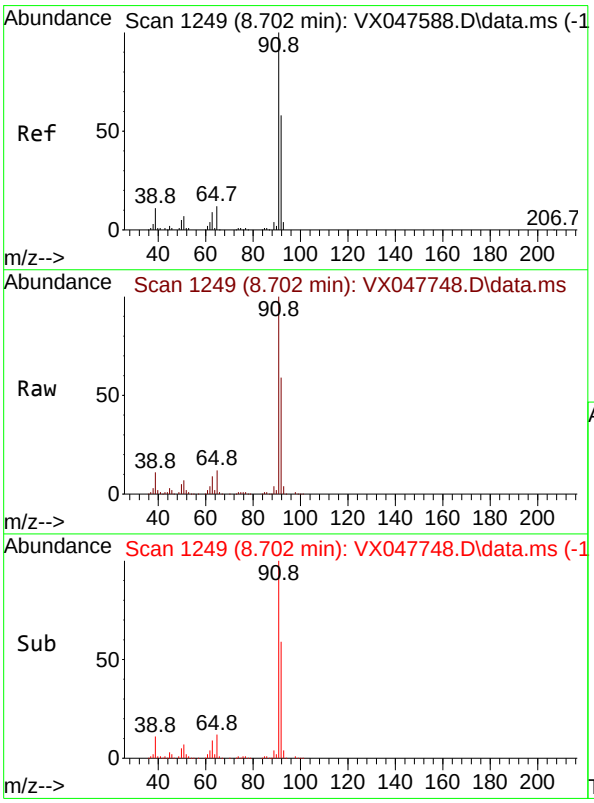
#51
4-Methyl-2-Pentanone
Concen: 114.468 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 310191

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

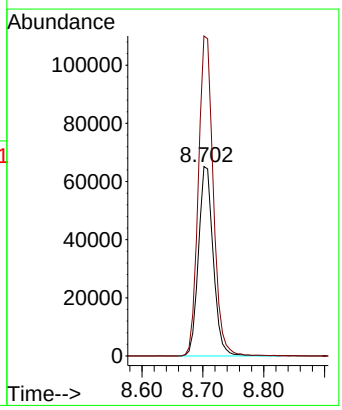


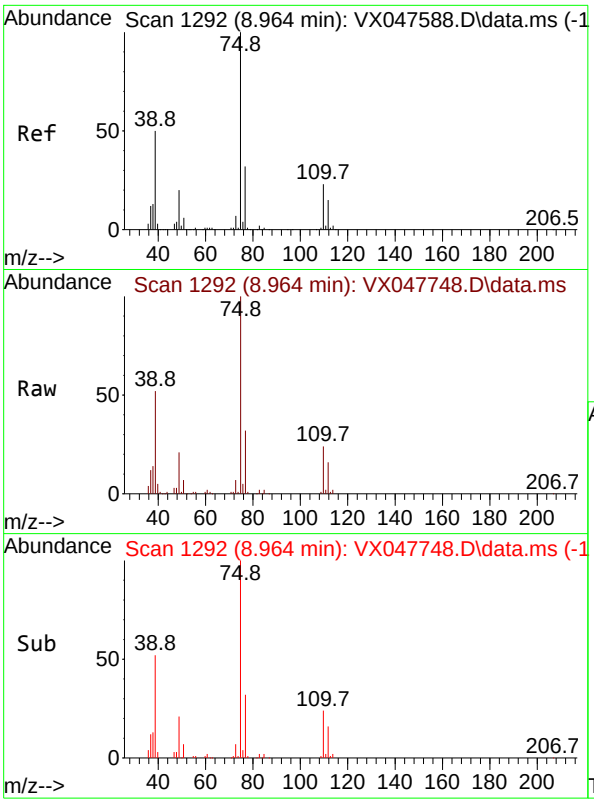


#52
Toluene
Concen: 21.098 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 92 Resp: 109881

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.1	205.7



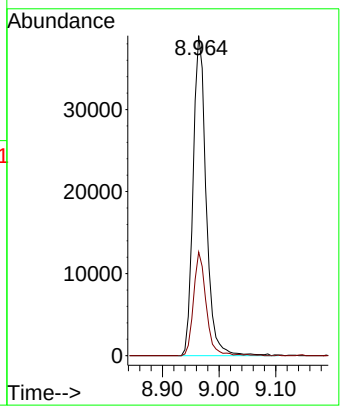


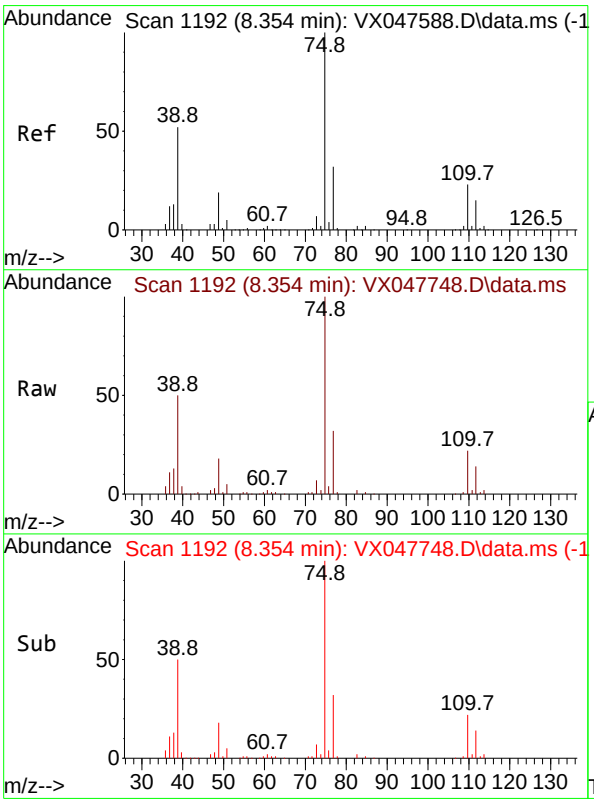
#53
t-1,3-Dichloropropene
Concen: 18.780 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 75 Resp: 62267

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.4	38.2

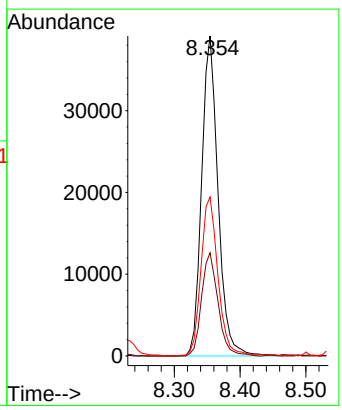


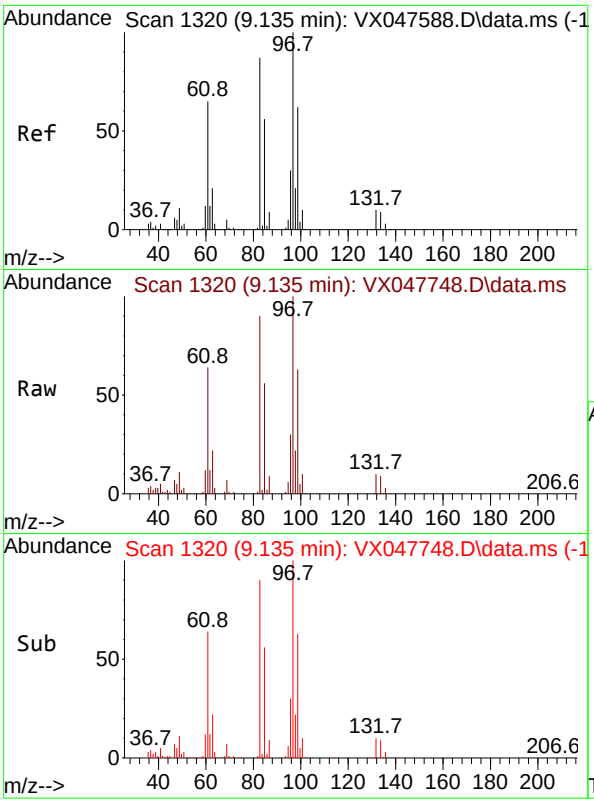


#54
cis-1,3-Dichloropropene
Concen: 19.135 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 67811

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	49.5	41.4	62.2



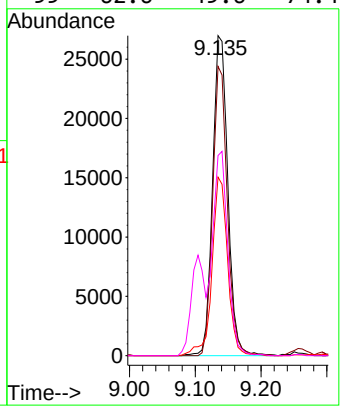


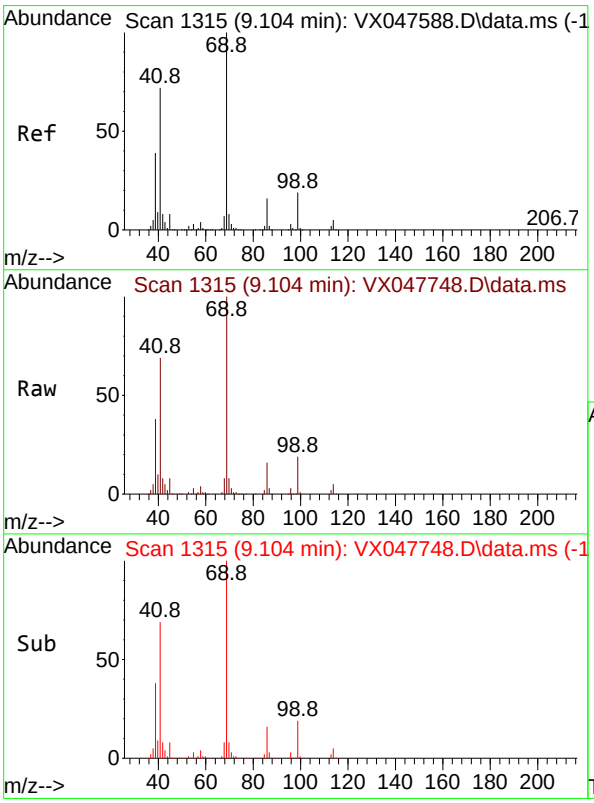
#55
1,1,2-Trichloroethane
Concen: 21.677 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 97 Resp: 43533

Ion	Ratio	Lower	Upper
97	100		
83	90.4	69.6	104.4
85	55.8	45.0	67.6
99	62.6	49.6	74.4

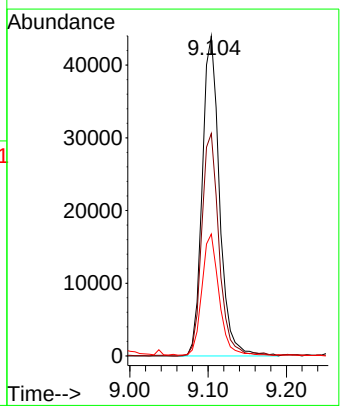


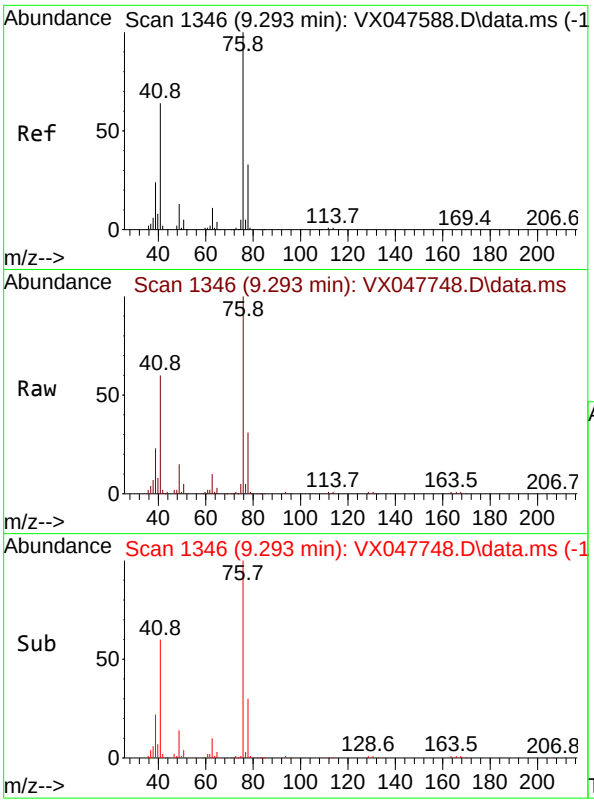


#56
Ethyl methacrylate
Concen: 21.313 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 69 Resp: 67219

Ion	Ratio	Lower	Upper
69	100		
41	69.3	58.6	87.8
39	37.7	31.5	47.3



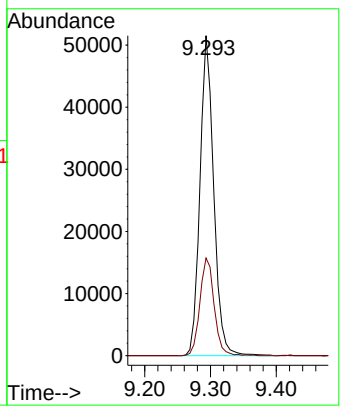


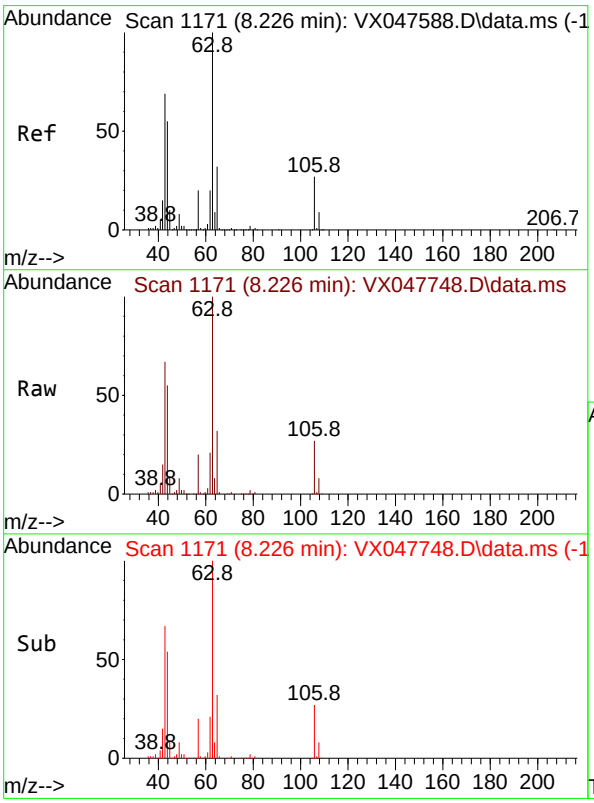
#57
1,3-Dichloropropane
Concen: 21.667 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 76 Resp: 74746

Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.4

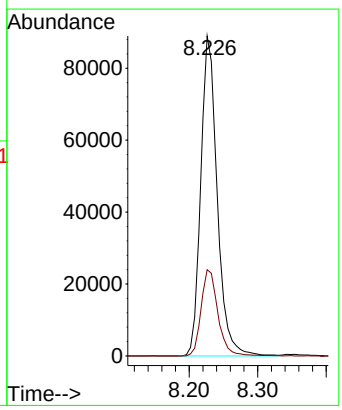


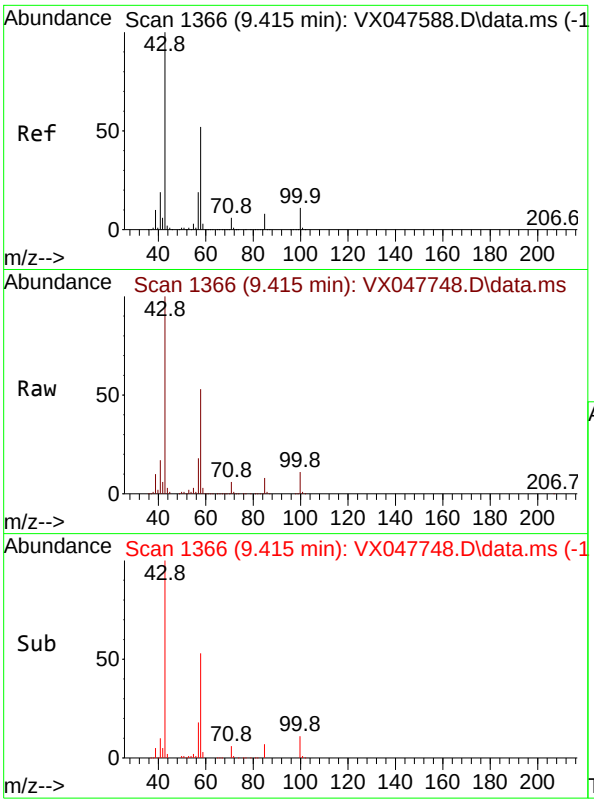


#58
2-Chloroethyl Vinyl ether
Concen: 105.735 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 148860

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



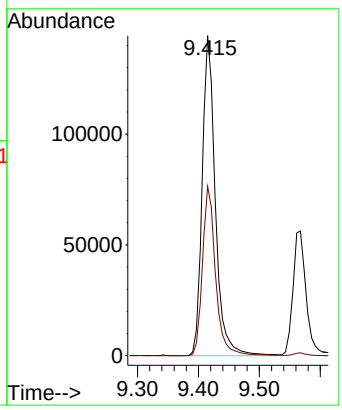


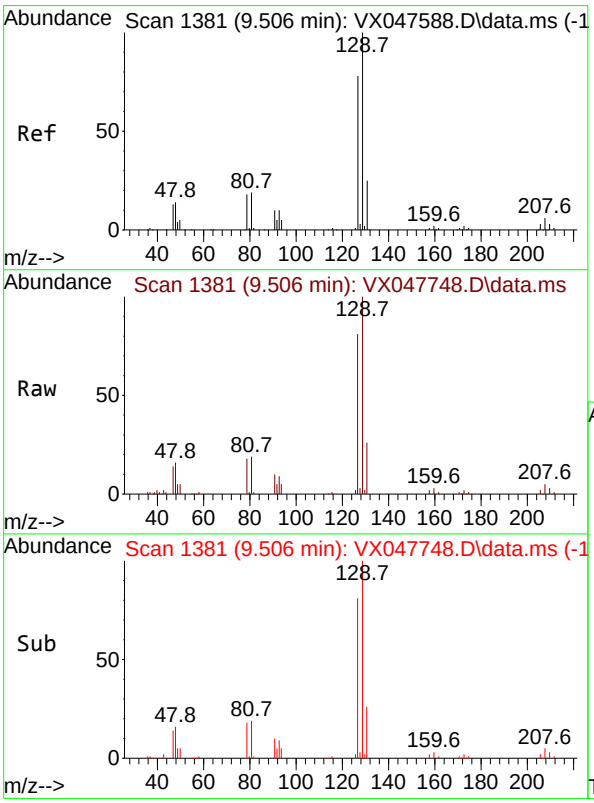
#59
2-Hexanone
Concen: 111.587 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 217174

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2

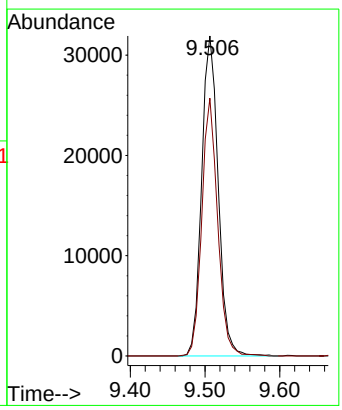


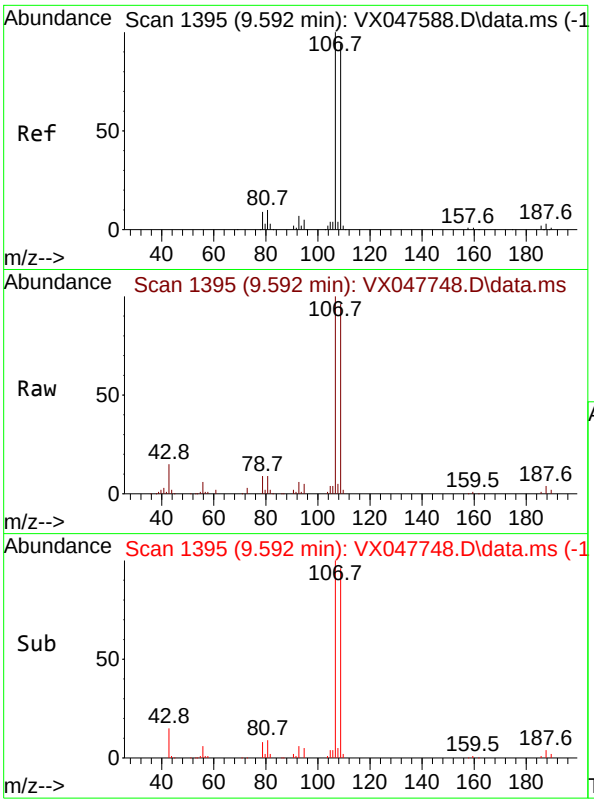


#60
Dibromochloromethane
Concen: 21.170 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:129 Resp: 48986

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.4	115.2



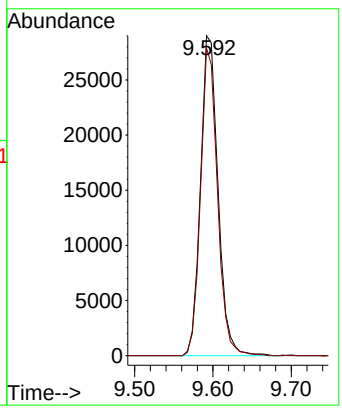


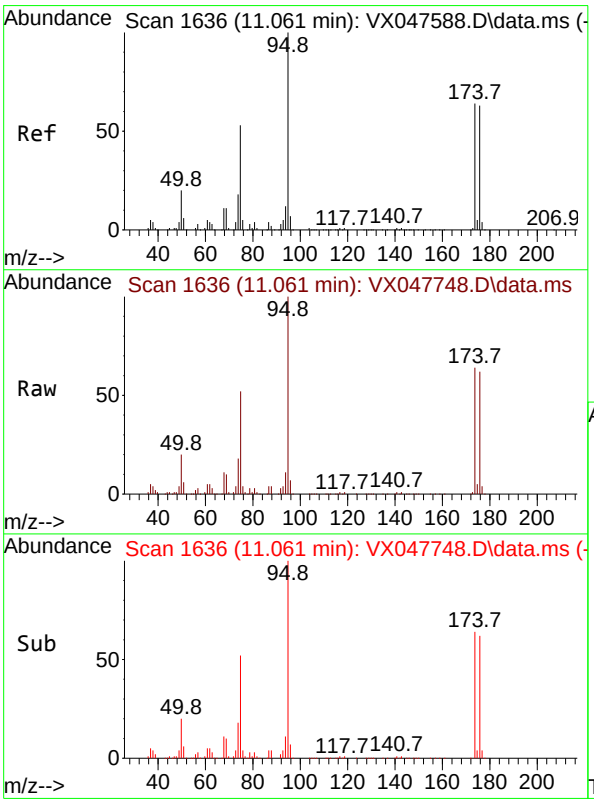
#61
1,2-Dibromoethane
Concen: 22.022 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:107 Resp: 45047

Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.3	112.9

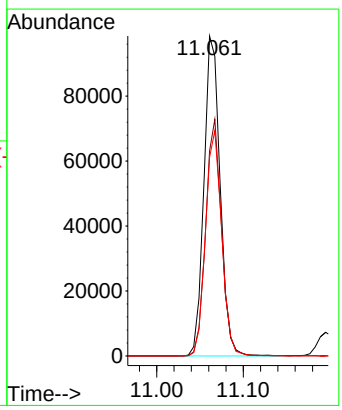


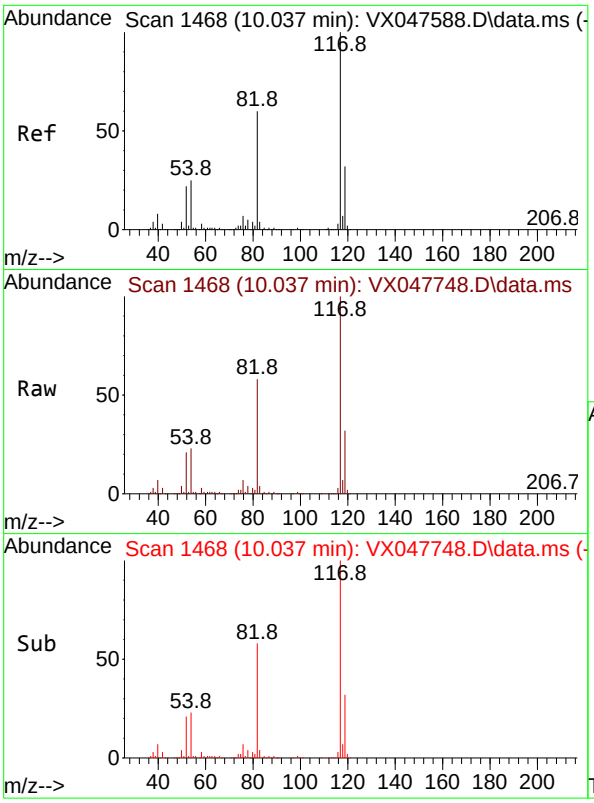


#62
4-Bromofluorobenzene
Concen: 51.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 95 Resp: 127747

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	70.7	0.0	138.4



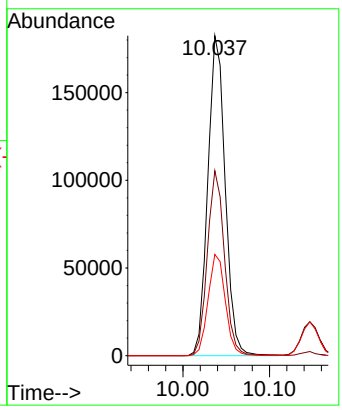


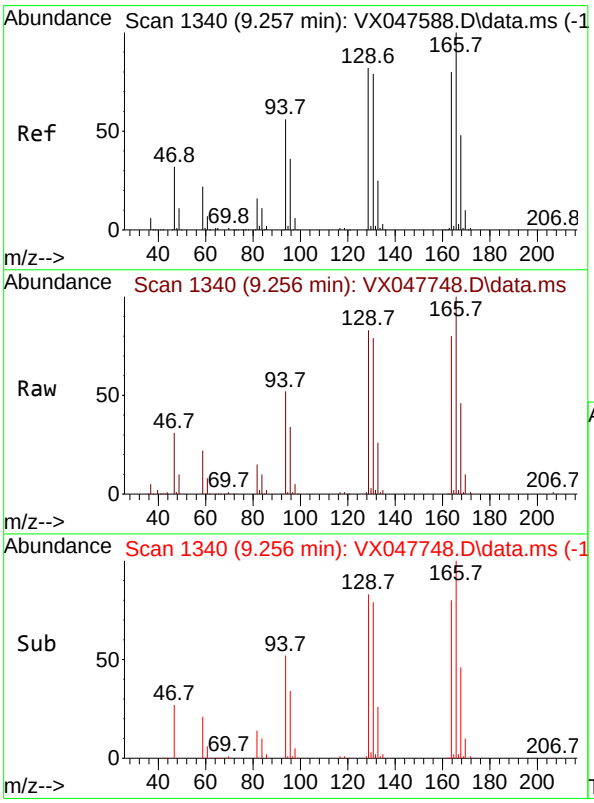
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:117 Resp: 253957

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.8	71.6
119	31.7	25.2	37.8

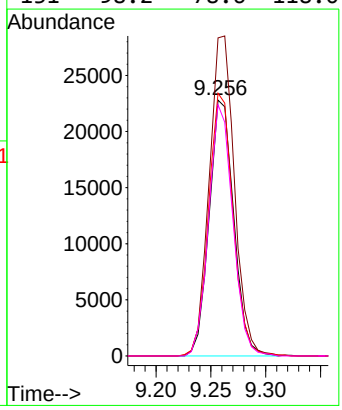


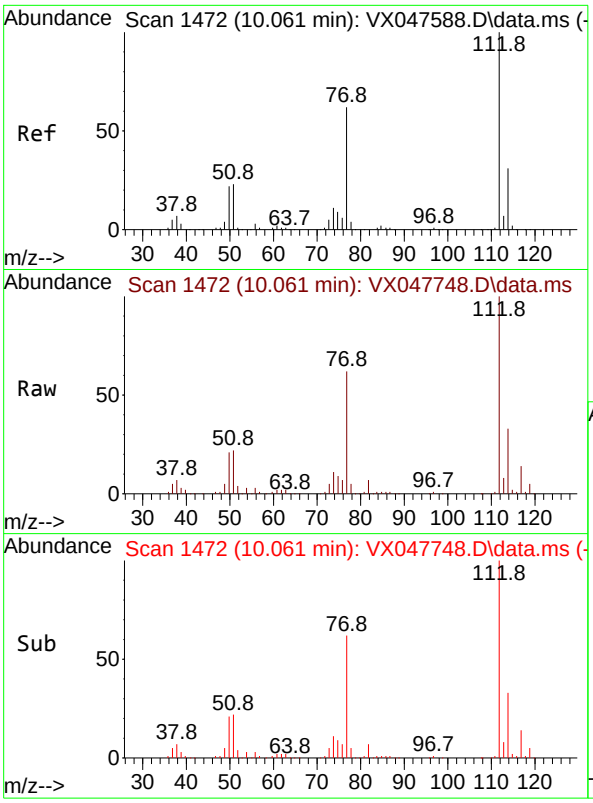


#64
Tetrachloroethene
Concen: 21.442 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:164 Resp: 35498

Ion	Ratio	Lower	Upper
164	100		
166	124.3	100.2	150.2
129	102.7	81.8	122.6
131	98.2	78.6	118.0



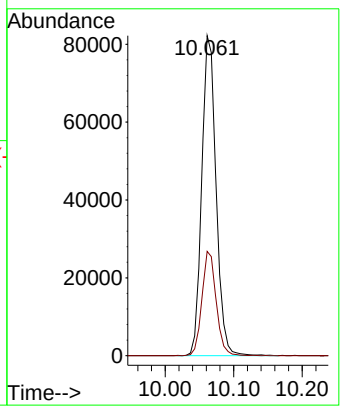


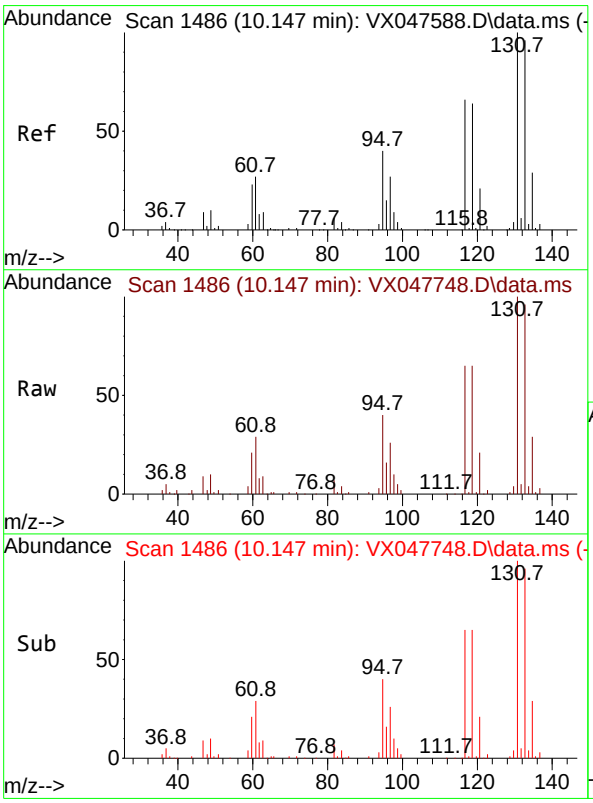
#65
Chlorobenzene
Concen: 20.738 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:112 Resp: 119644

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.1	37.7

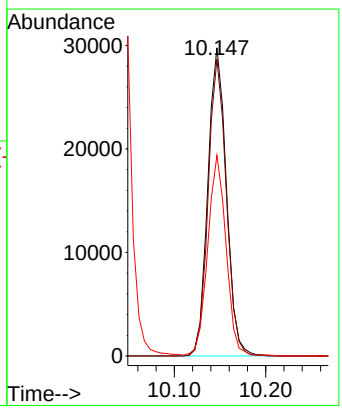


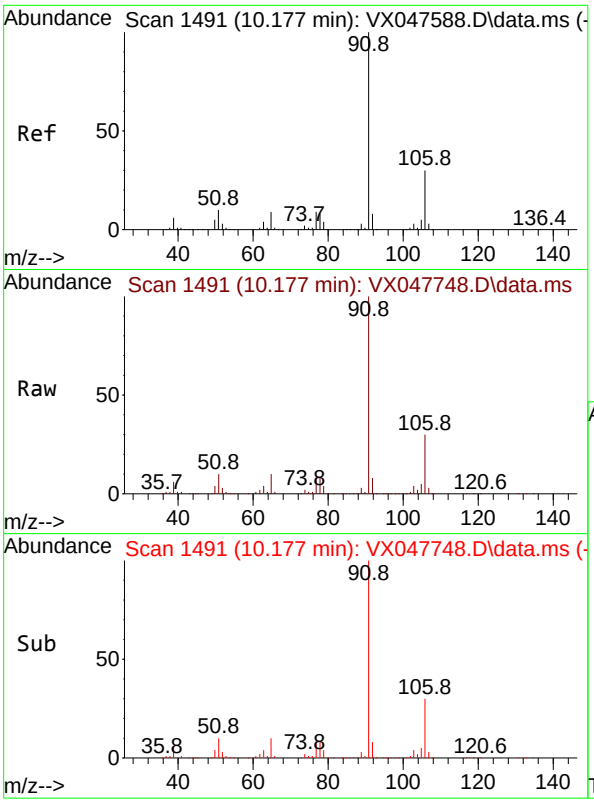


#66
1,1,1,2-Tetrachloroethane
Concen: 21.001 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:131 Resp: 41811

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.3	142.0
119	64.4	32.0	96.0



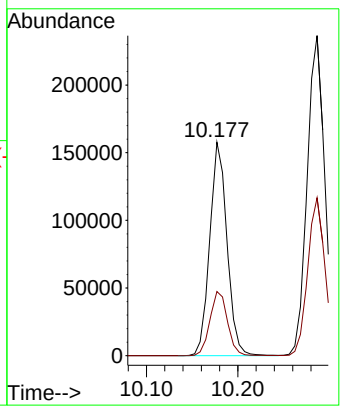


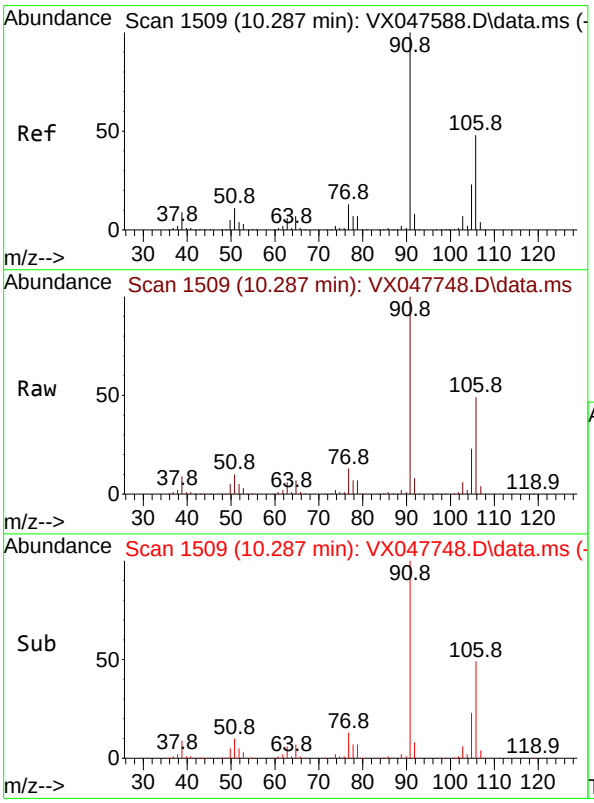
#67
Ethyl Benzene
Concen: 20.757 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 91 Resp: 206630

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

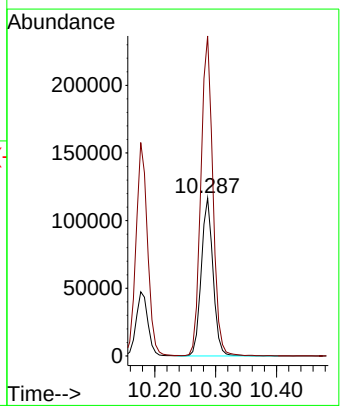


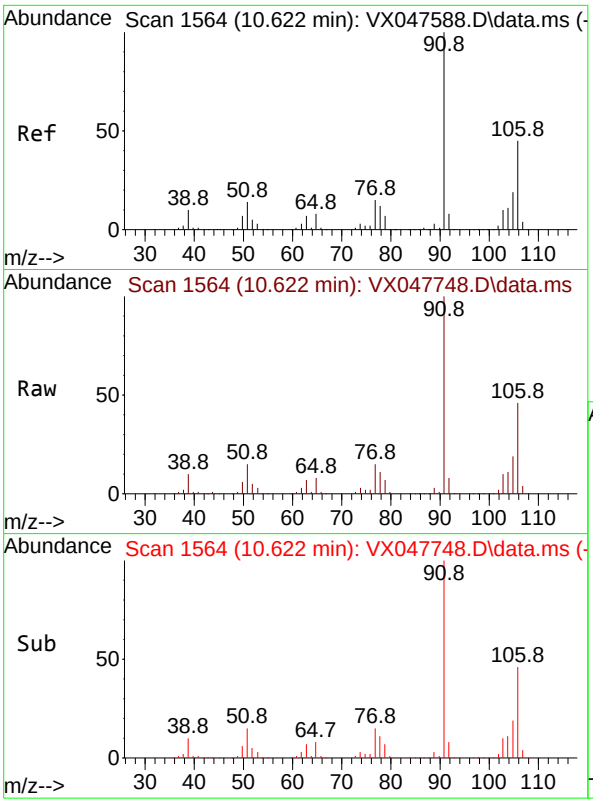


#68
m/p-Xylenes
Concen: 42.264 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:106 Resp: 156597

Ion	Ratio	Lower	Upper
106	100		
91	206.5	167.8	251.8



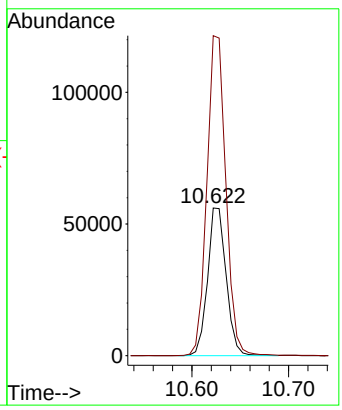


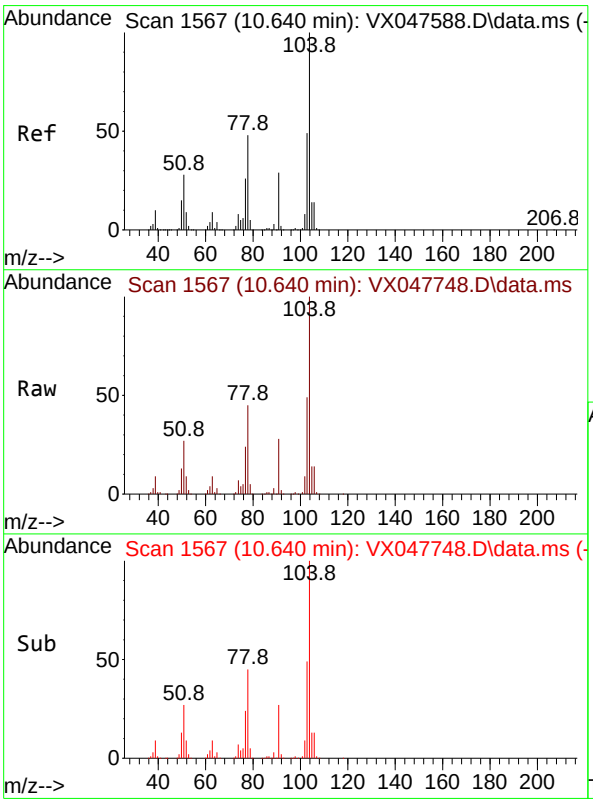
#69
o-Xylene
Concen: 20.945 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:106 Resp: 75062

Ion	Ratio	Lower	Upper
106	100		
91	221.1	111.1	333.4

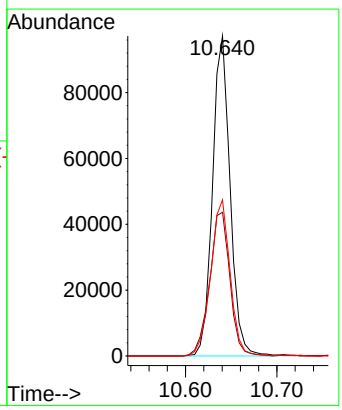


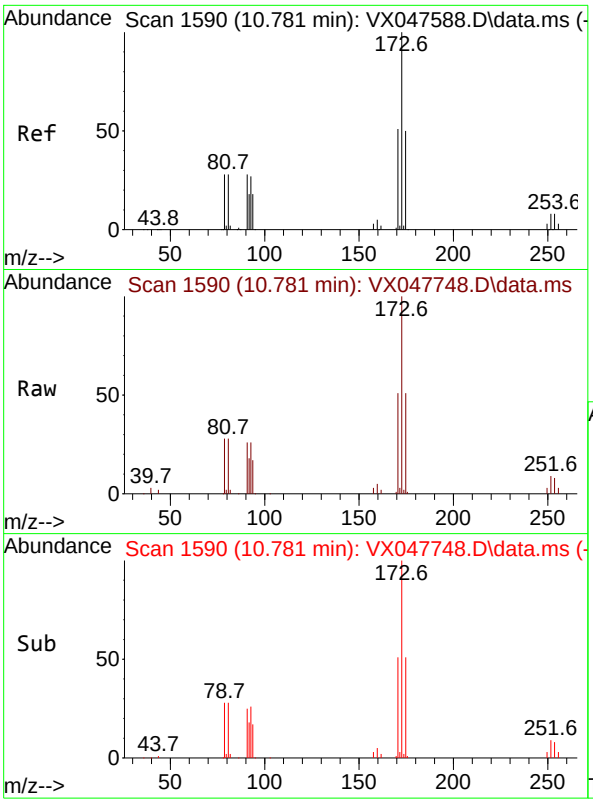


#70
Styrene
Concen: 20.651 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:104 Resp: 129679

Ion	Ratio	Lower	Upper
104	100		
78	51.9	43.1	64.7
103	53.9	43.1	64.7



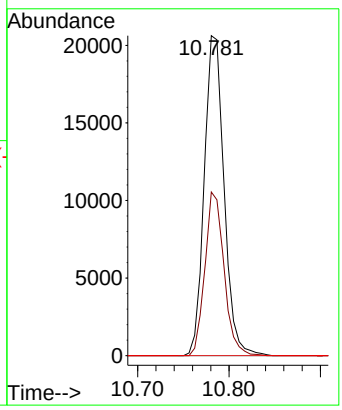


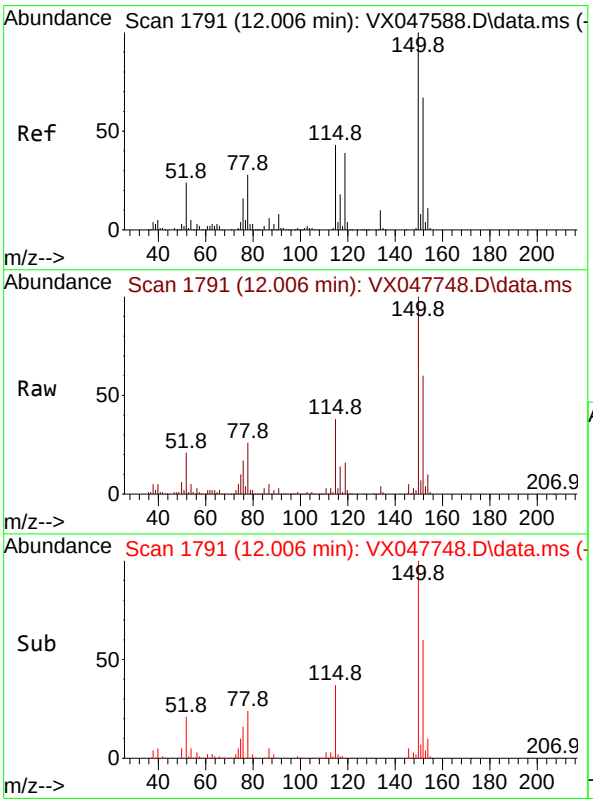
#71
Bromoform
Concen: 20.854 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:173 Resp: 31001

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1#

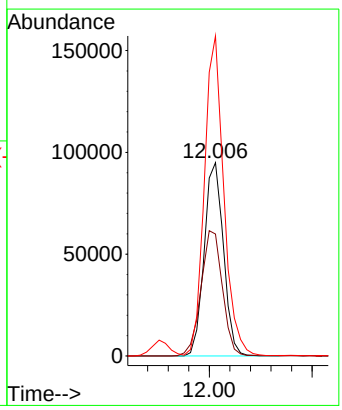


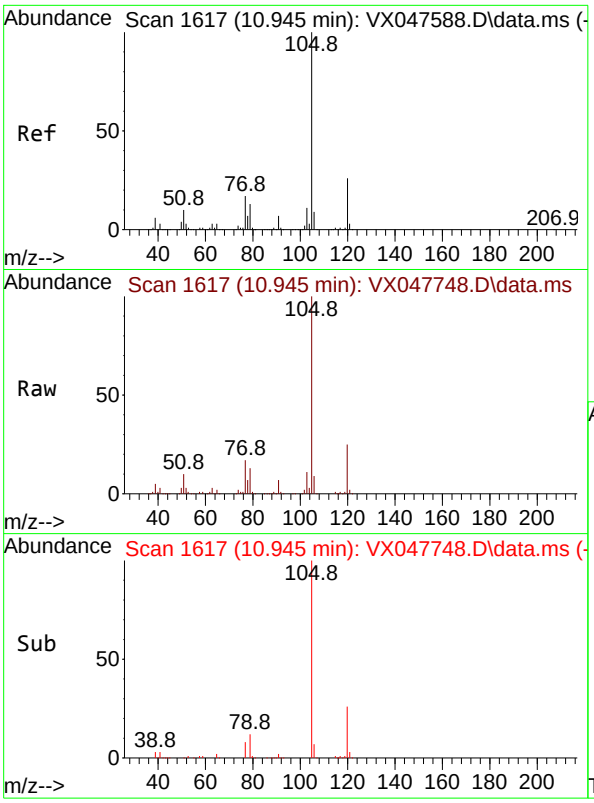


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:152 Resp: 123765

Ion	Ratio	Lower	Upper
152	100		
115	71.9	44.9	134.5
150	166.4	0.0	352.0



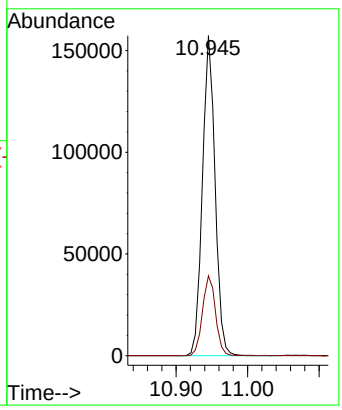


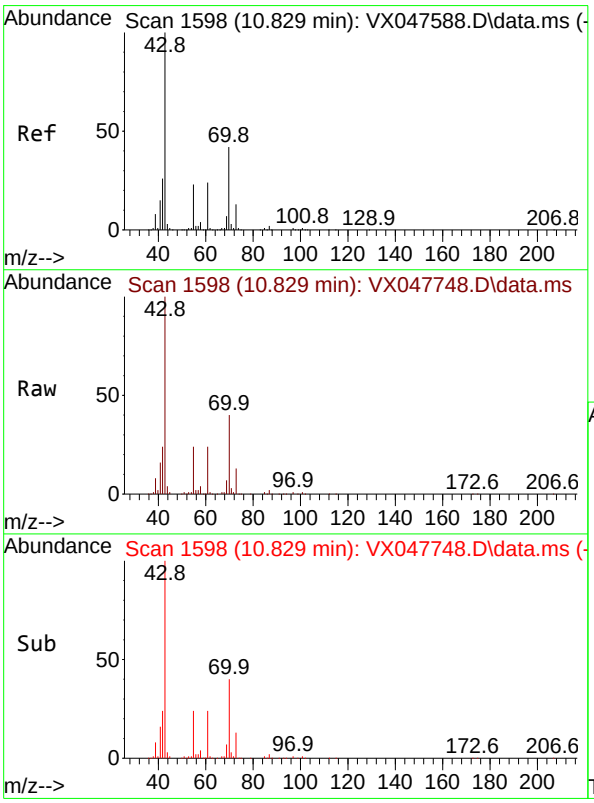
#73
Isopropylbenzene
Concen: 20.548 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:105 Resp: 193342

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

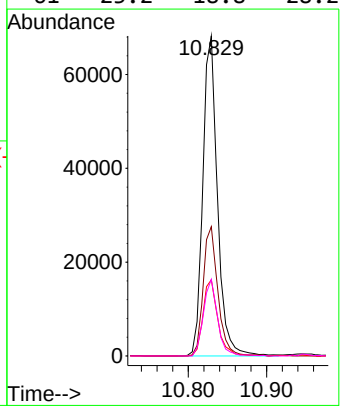


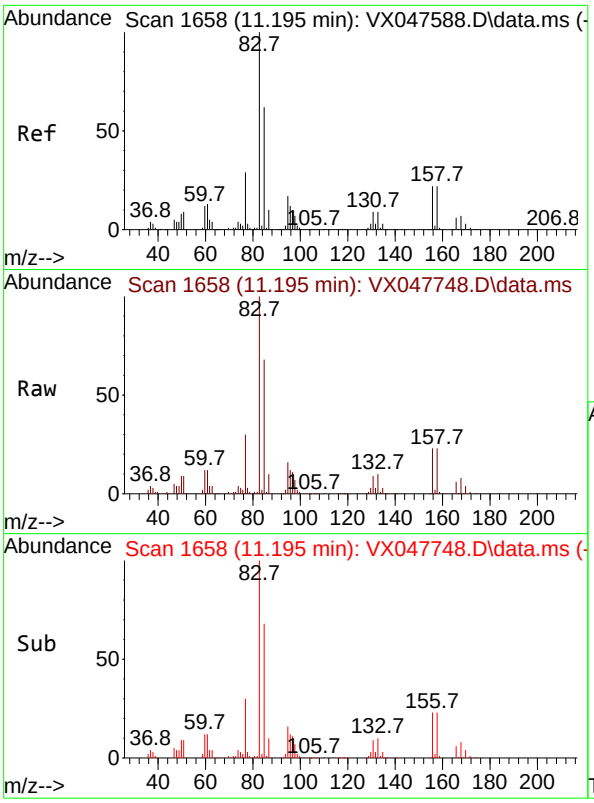


#74
N-amyl acetate
Concen: 20.640 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 88563

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	24.1	18.9	28.3
61	23.2	18.8	28.2



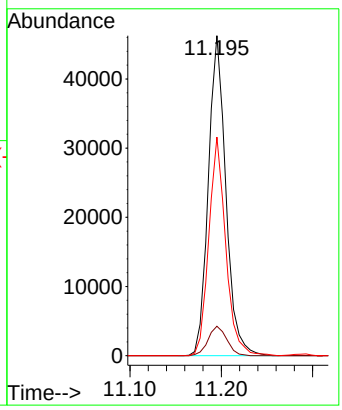


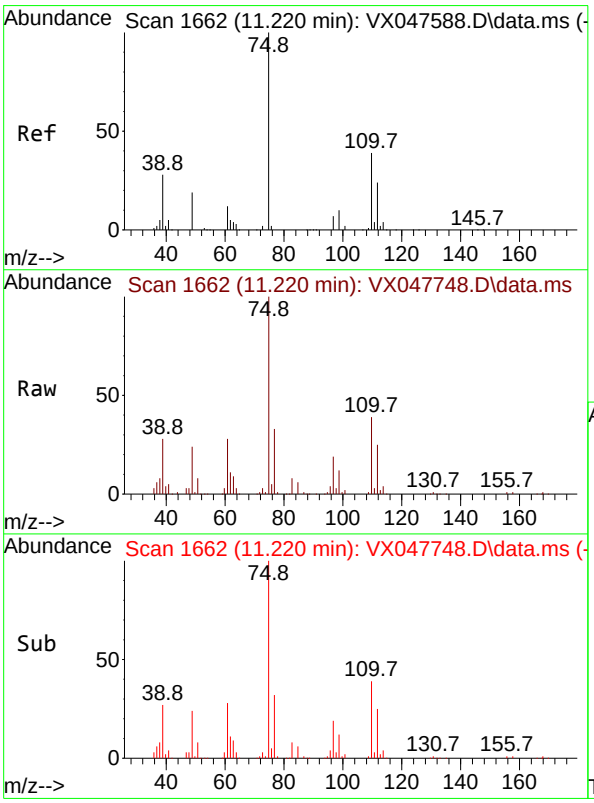
#75
1,1,2,2-Tetrachloroethane
Concen: 21.584 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 83 Resp: 61446

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	66.0	31.6	95.0

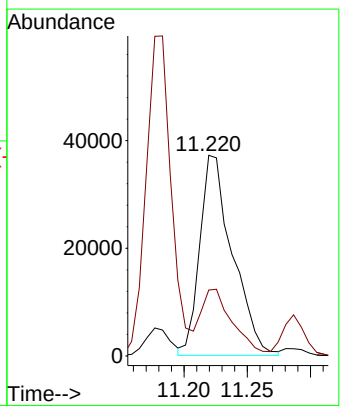


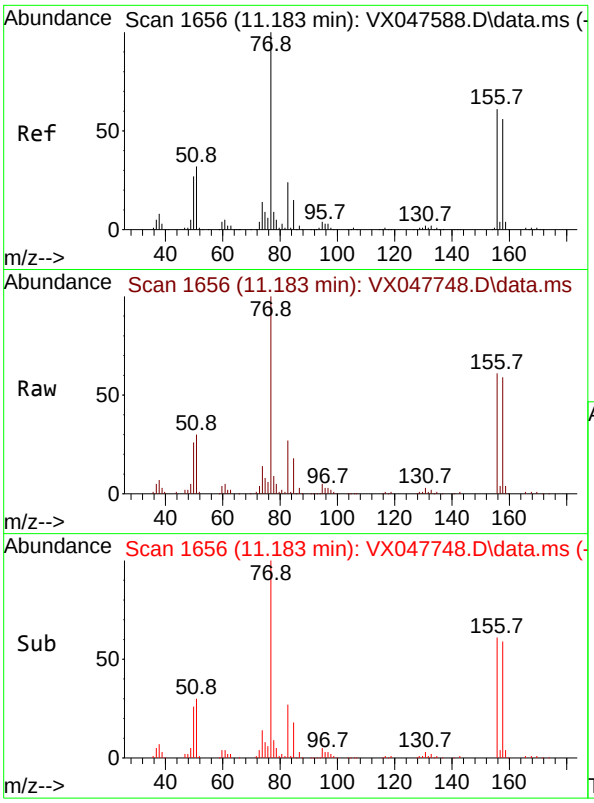


#76
1,2,3-Trichloropropane
Concen: 26.701 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 66910

Ion	Ratio	Lower	Upper
75	100		
77	31.9	18.8	56.4



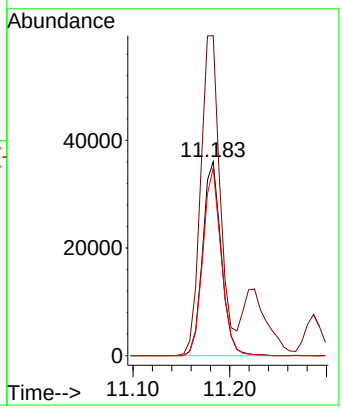


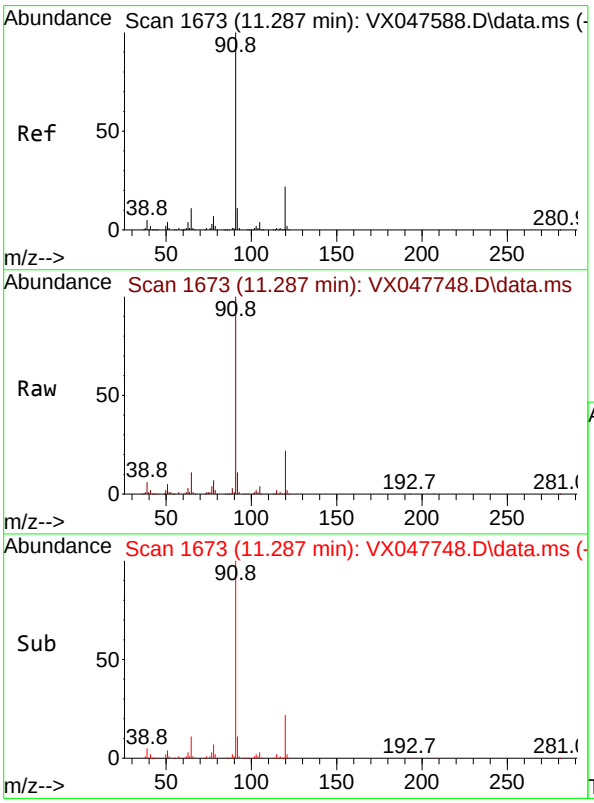
#77
Bromobenzene
Concen: 20.791 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:156 Resp: 48182

Ion	Ratio	Lower	Upper
156	100		
77	173.7	89.7	269.1
158	95.4	47.9	143.6

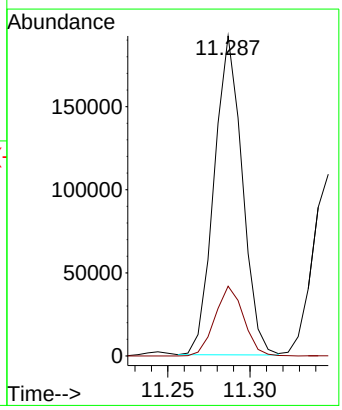


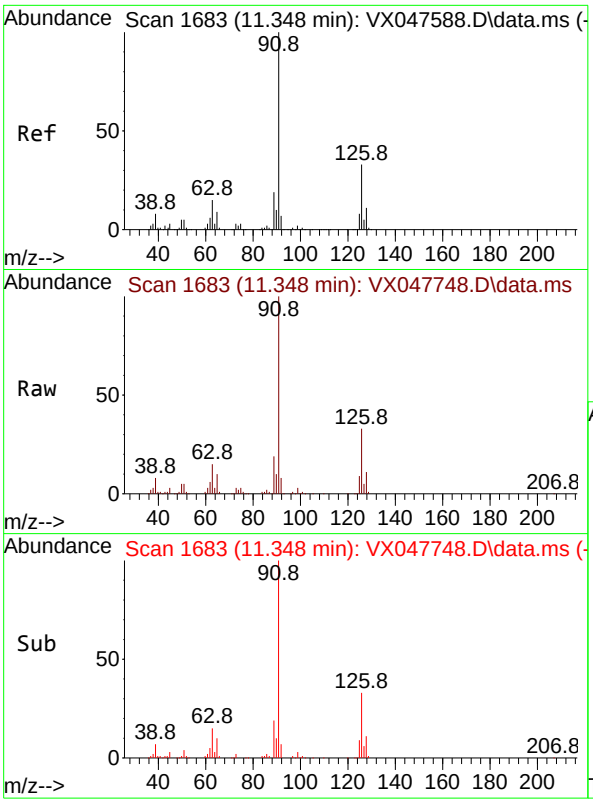


#78
n-propylbenzene
Concen: 20.542 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 228489

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1



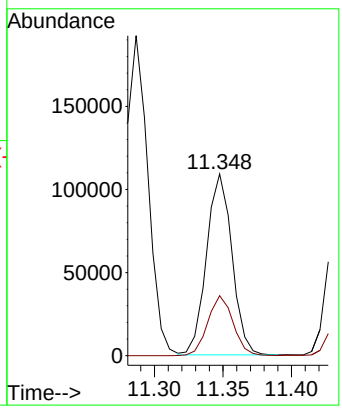


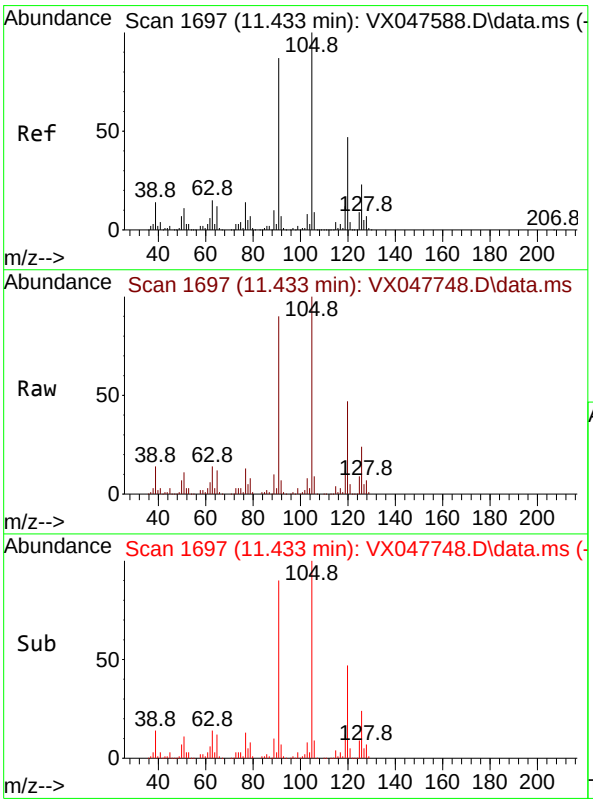
#79
2-Chlorotoluene
Concen: 20.647 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 91 Resp: 140664

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3

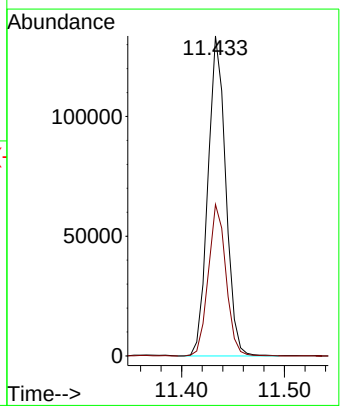


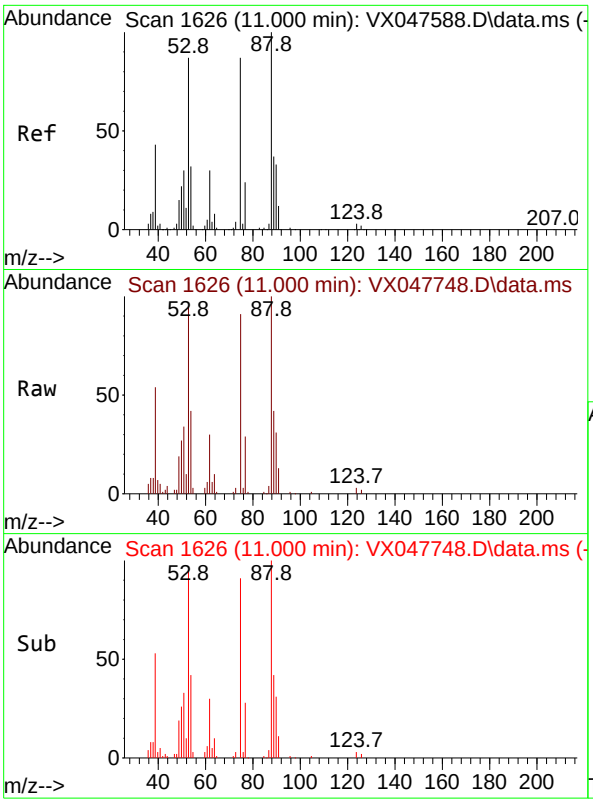


#80
1,3,5-Trimethylbenzene
Concen: 20.764 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 160516

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.6	70.8



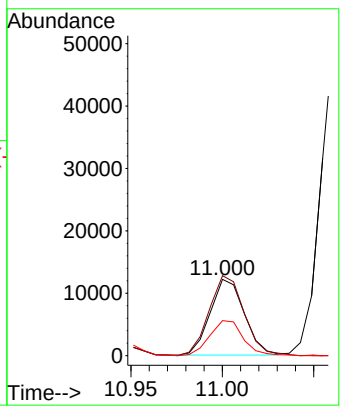


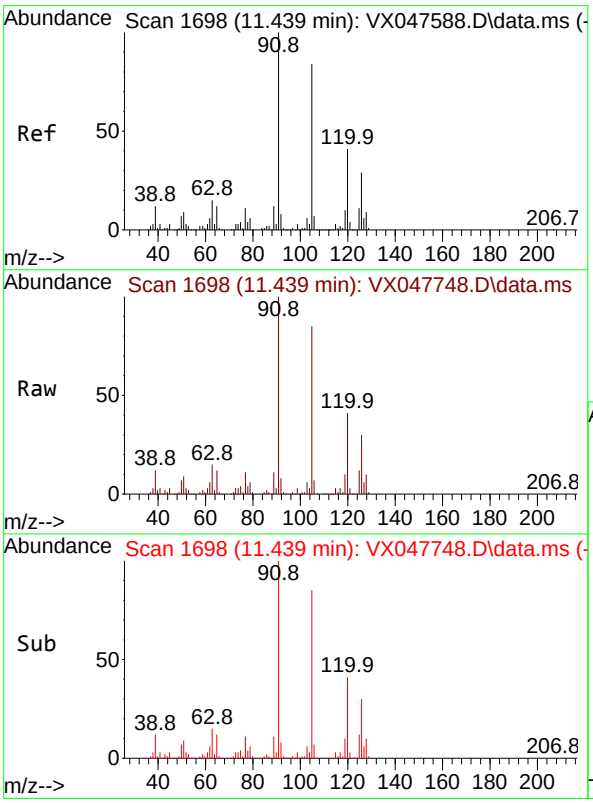
#81
trans-1,4-Dichloro-2-butene
Concen: 16.123 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 75 Resp: 15843

Ion	Ratio	Lower	Upper
75	100		
53	108.2	83.4	125.2
89	45.5	36.3	54.5

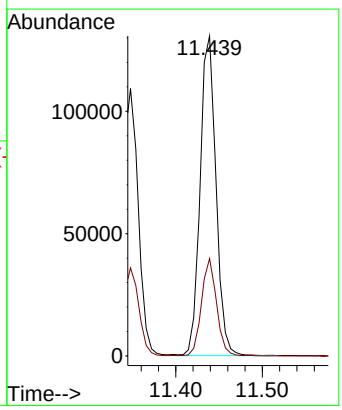


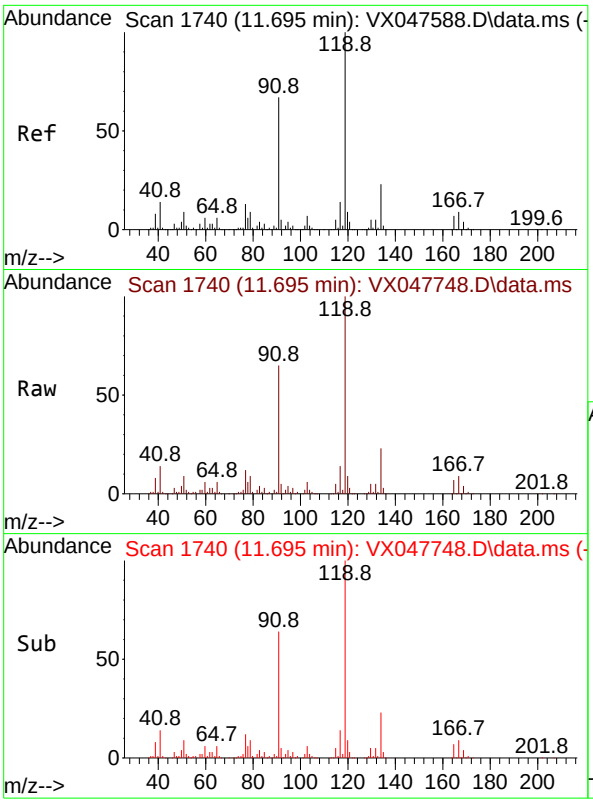


#82
4-Chlorotoluene
Concen: 20.635 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 166032

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.2	42.6



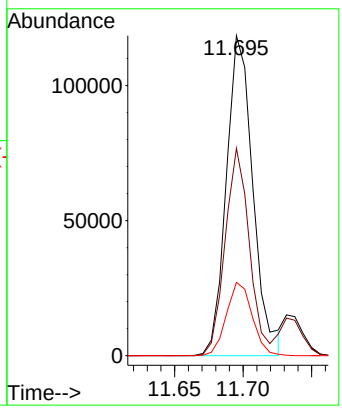


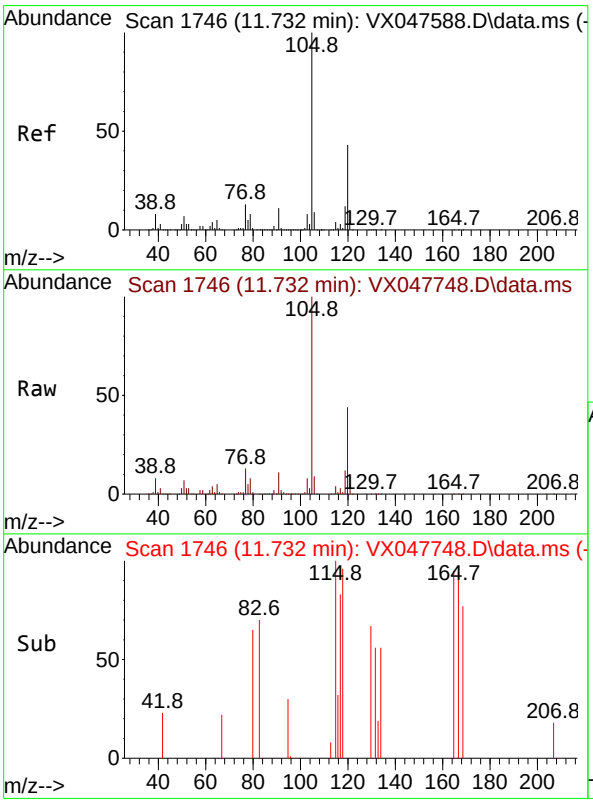
#83
tert-Butylbenzene
Concen: 20.248 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:119 Resp: 160239

Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.2	11.0	33.0

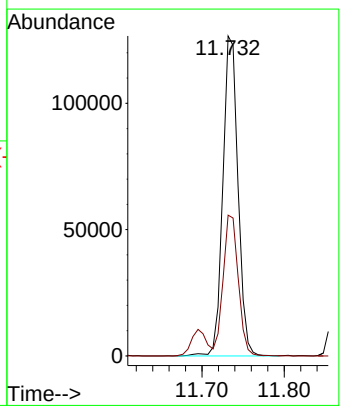


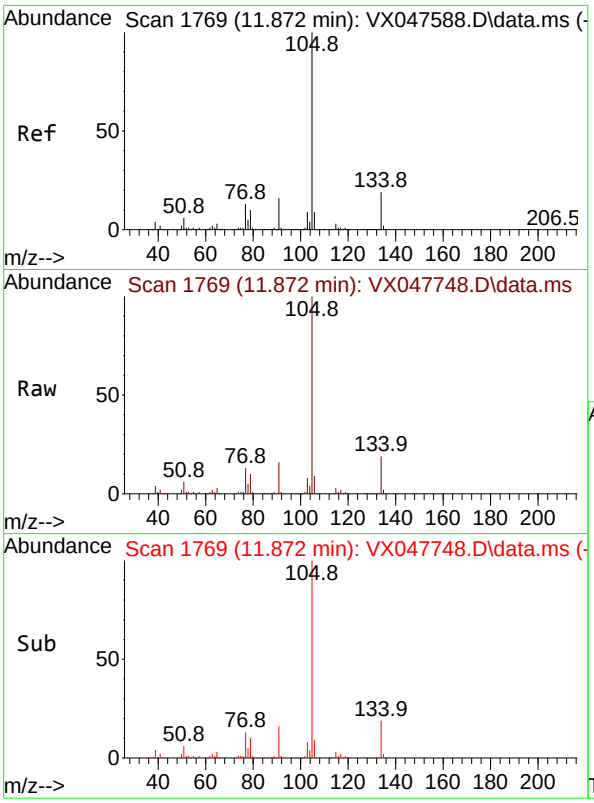


#84
1,2,4-Trimethylbenzene
Concen: 20.665 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 161967

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



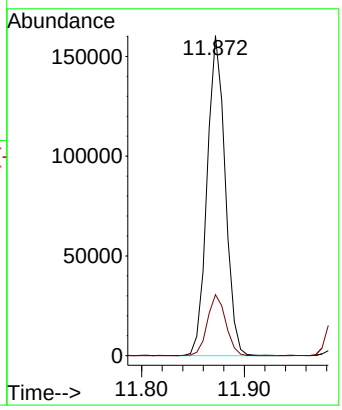


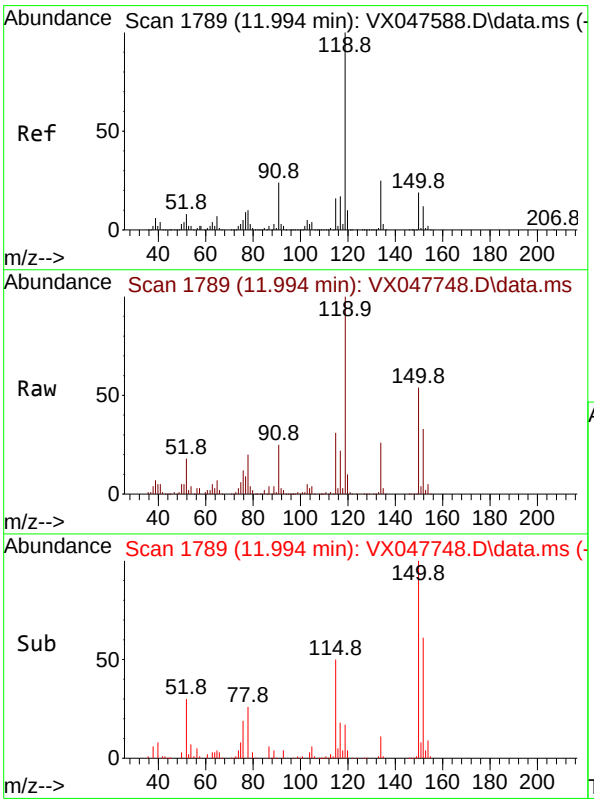
#85
sec-Butylbenzene
Concen: 20.870 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:105 Resp: 196176

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

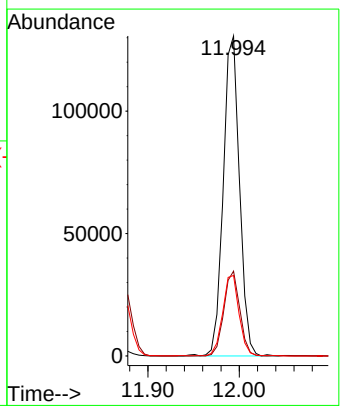


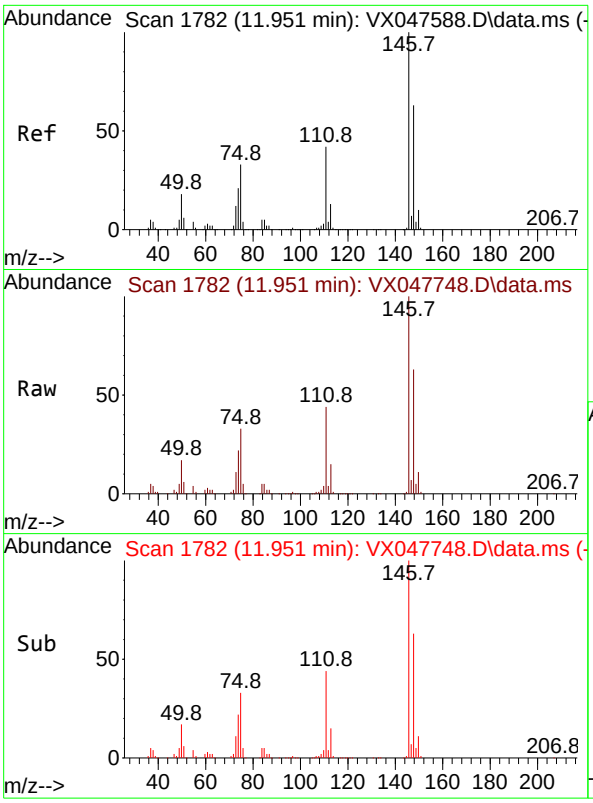


#86
p-Isopropyltoluene
Concen: 20.326 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:119 Resp: 161751

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	25.6	12.6	37.6



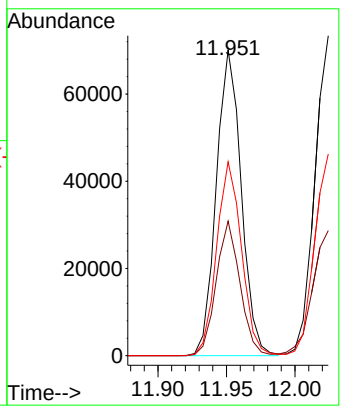


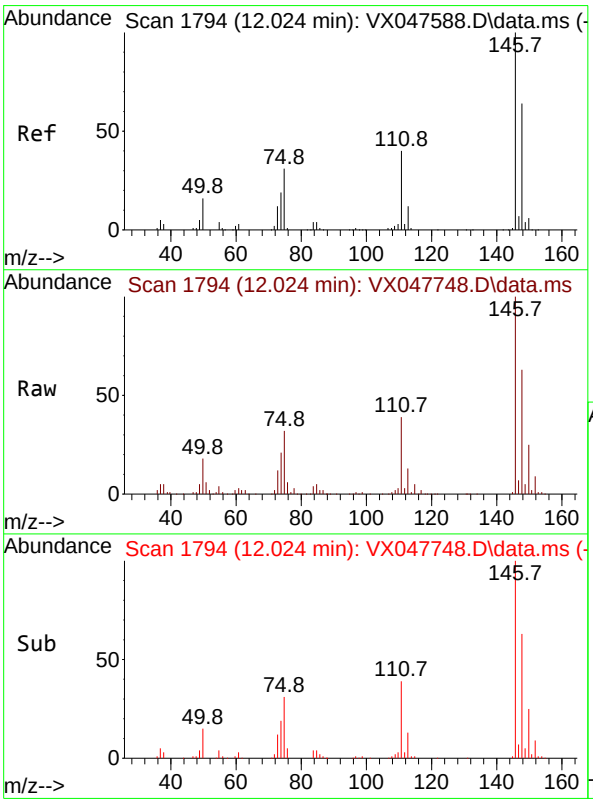
#87
1,3-Dichlorobenzene
Concen: 20.598 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:146 Resp: 88665

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.3	32.0	96.0

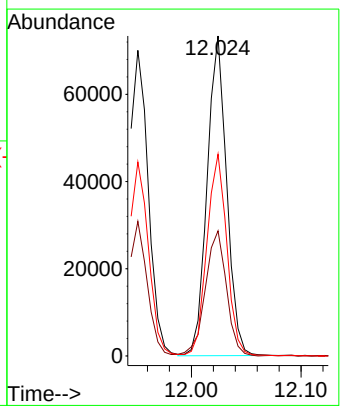


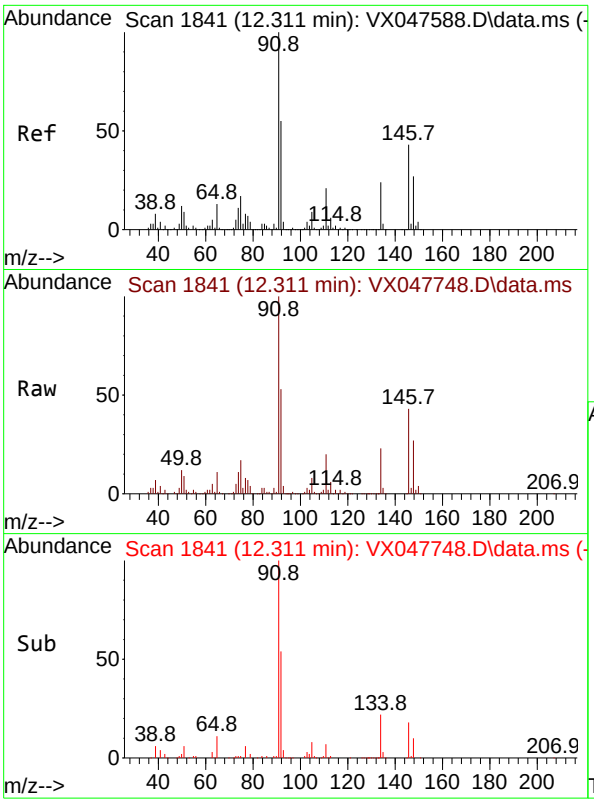


#88
1,4-Dichlorobenzene
Concen: 20.539 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 90738

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.3	31.7	95.1



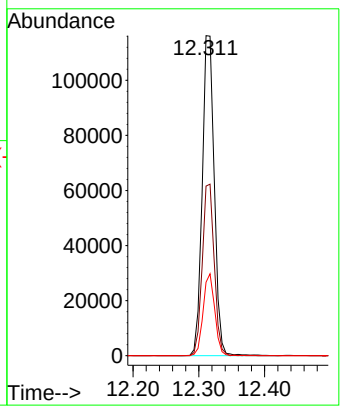


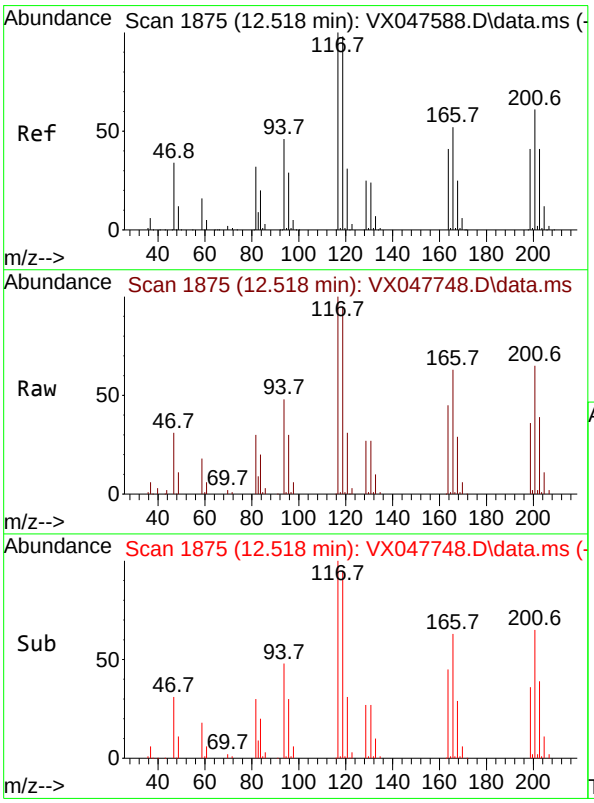
#89
n-Butylbenzene
Concen: 20.116 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 91 Resp: 148126

Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8

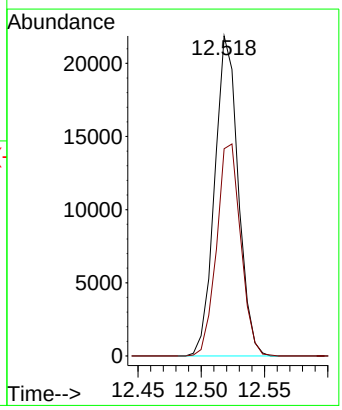


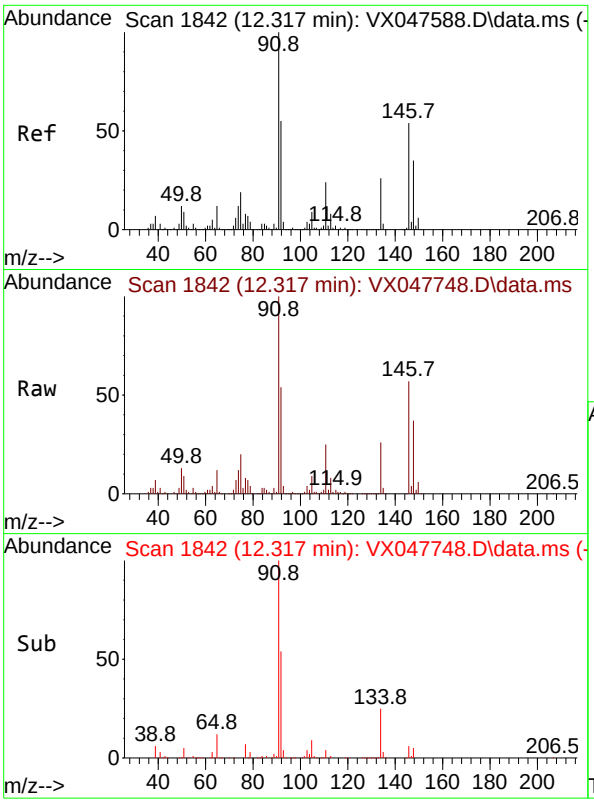


#90
Hexachloroethane
Concen: 20.199 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 28222

Ion	Ratio	Lower	Upper
117	100		
201	68.0	34.2	102.5



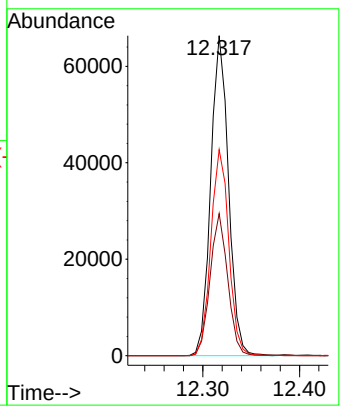


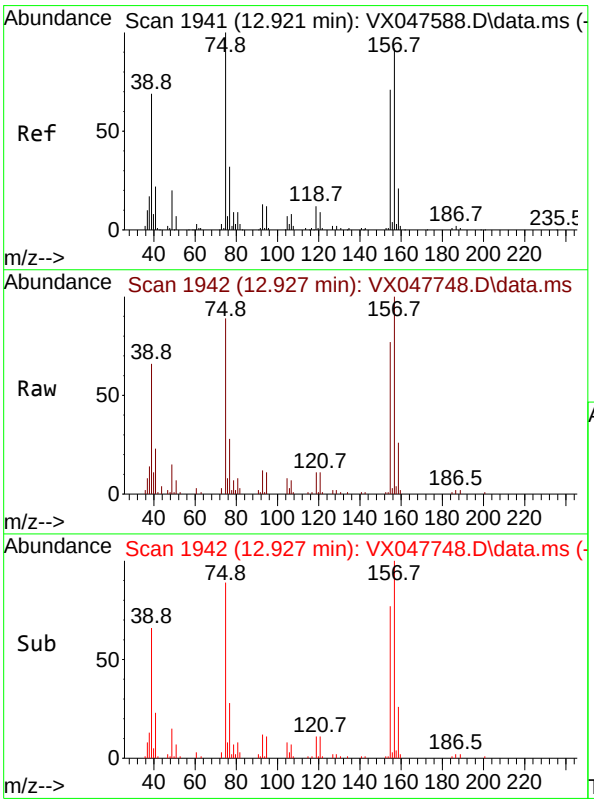
#91
1,2-Dichlorobenzene
Concen: 20.655 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:146 Resp: 84704

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.2	66.6
148	65.0	31.8	95.4

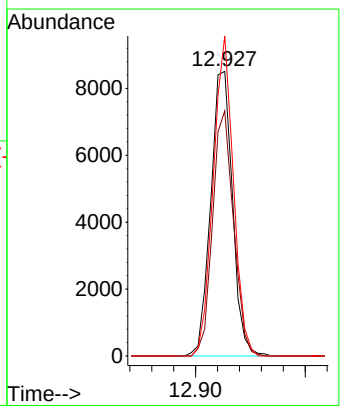


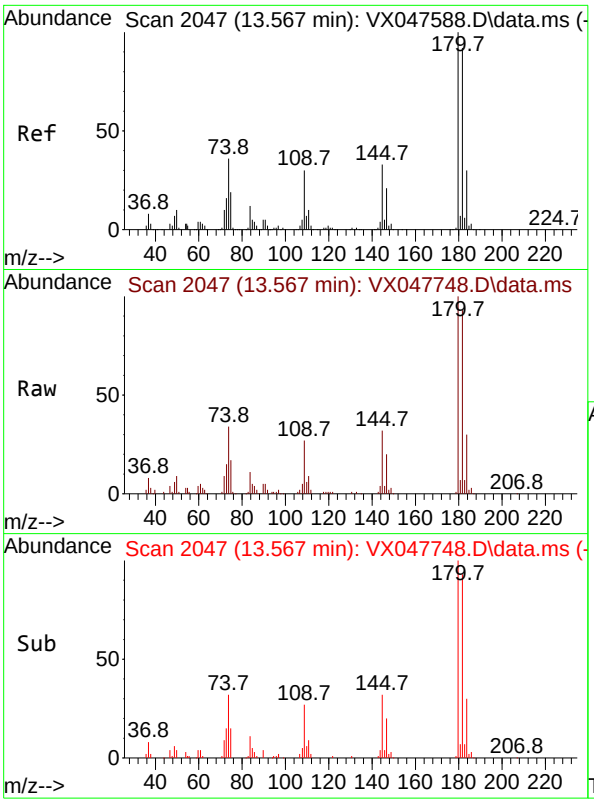


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.397 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 11756

Ion	Ratio	Lower	Upper
75	100		
155	82.8	37.7	113.1
157	104.0	49.8	149.4



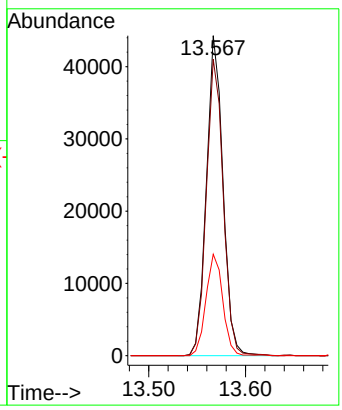


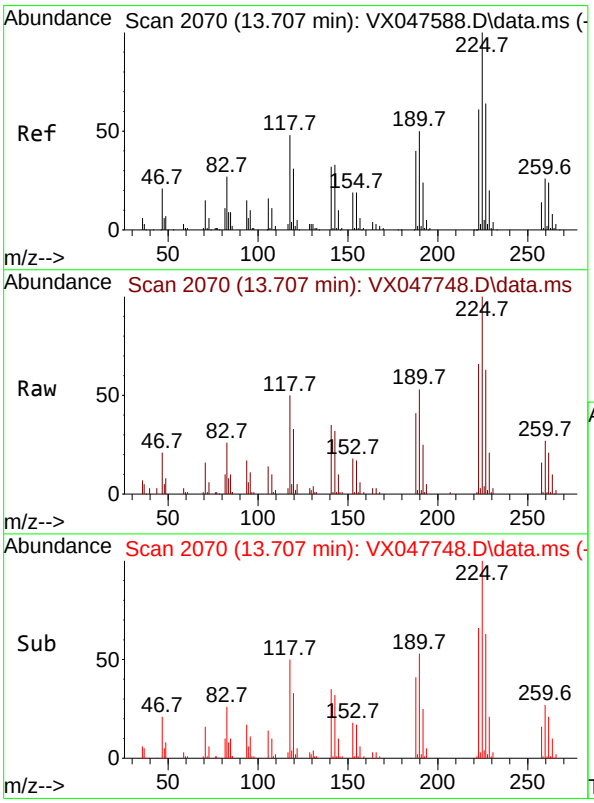
#93
1,2,4-Trichlorobenzene
Concen: 19.802 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:180 Resp: 52777

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.6	139.8
145	32.3	16.4	49.1

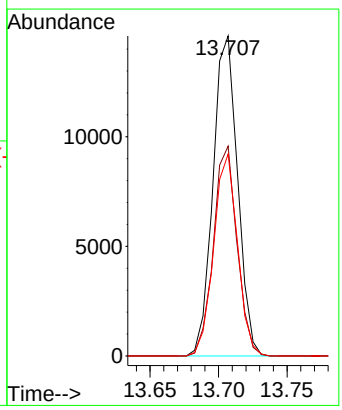


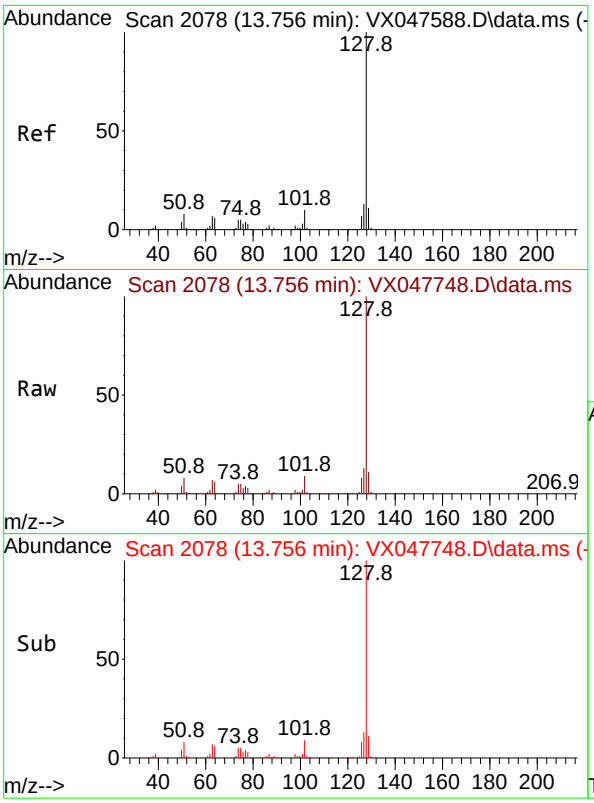


#94
Hexachlorobutadiene
Concen: 20.094 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:225 Resp: 18191

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.7	95.1
227	61.1	32.0	96.0



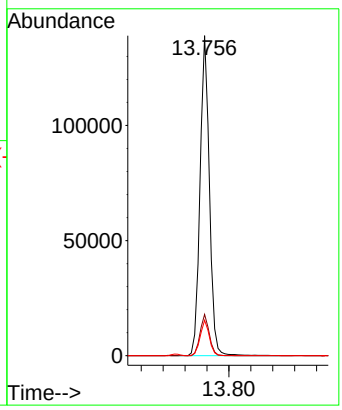


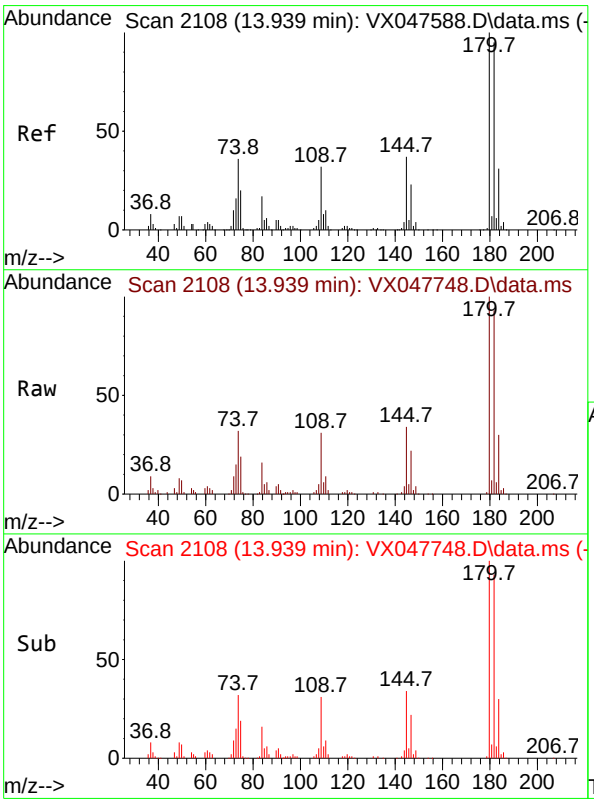
#95
Naphthalene
Concen: 20.298 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:128 Resp: 164732

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.7	8.8	13.2

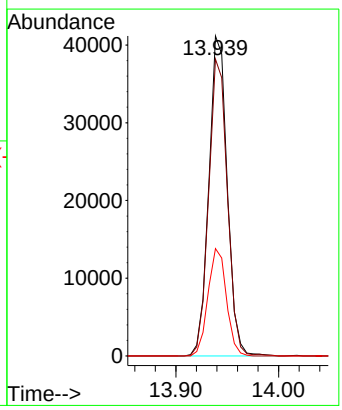




#96
1,2,3-Trichlorobenzene
Concen: 20.708 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:180 Resp: 51341

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.6	142.8
145	33.5	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	154222	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	281988	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	254297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	124629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	123608	50.353	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.700%			
35) Dibromofluoromethane	5.373	113	97017	51.300	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.600%			
50) Toluene-d8	8.634	98	341263	52.151	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 104.300%			
62) 4-Bromofluorobenzene	11.061	95	129425	52.114	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.220%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	31354	19.633	ug/l	97
3) Chloromethane	1.300	50	38808	18.490	ug/l	99
4) Vinyl Chloride	1.380	62	37889	18.441	ug/l	98
5) Bromomethane	1.617	94	25717	19.739	ug/l	95
6) Chloroethane	1.697	64	24132	17.573	ug/l	98
7) Trichlorofluoromethane	1.898	101	53751	17.620	ug/l	92
8) Diethyl Ether	2.136	74	20543	16.462	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.337	101	30800	17.267	ug/l	98
10) Methyl Iodide	2.459	142	46724	16.795	ug/l	100
11) Tert butyl alcohol	2.940	59	25276	92.450	ug/l	99
12) 1,1-Dichloroethene	2.325	96	32967	17.992	ug/l	96
13) Acrolein	2.239	56	22043	87.491	ug/l	98
14) Allyl chloride	2.666	41	61383	16.234	ug/l	97
15) Acrylonitrile	3.062	53	99171	97.927	ug/l	98
16) Acetone	2.380	43	80974	75.863	ug/l	99
17) Carbon Disulfide	2.520	76	90054	17.953	ug/l	99
18) Methyl Acetate	2.703	43	47143	19.846	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	116727	17.451	ug/l	99
20) Methylene Chloride	2.788	84	39914	17.666	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	35110	17.798	ug/l	98
22) Diisopropyl ether	3.757	45	128843	17.583	ug/l	99
23) Vinyl Acetate	3.715	43	514138	87.666	ug/l	99
24) 1,1-Dichloroethane	3.611	63	68705	17.640	ug/l	99
25) 2-Butanone	4.544	43	120923	90.824	ug/l	95
26) 2,2-Dichloropropane	4.471	77	34586	10.683	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	43152	17.862	ug/l	94
28) Bromochloromethane	4.891	49	36933	21.721	ug/l	97
29) Tetrahydrofuran	4.995	42	77415	96.655	ug/l	99
30) Chloroform	5.086	83	70538	17.922	ug/l	95
31) Cyclohexane	5.464	56	56532	17.427	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	59999	17.972	ug/l	99
36) 1,1-Dichloropropene	5.684	75	45756	16.558	ug/l	98
37) Ethyl Acetate	4.708	43	53875	18.208	ug/l	99
38) Carbon Tetrachloride	5.666	117	49639	16.532	ug/l	94
39) Methylcyclohexane	7.366	83	52216	16.646	ug/l	97
40) Benzene	6.025	78	148339	17.674	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	28598	18.722	ug/l		96
42) 1,2-Dichloroethane	6.074	62	53538	16.765	ug/l		98
43) Isopropyl Acetate	6.324	43	88000	18.134	ug/l		100
44) Trichloroethene	7.110	130	36283	17.881	ug/l		92
45) 1,2-Dichloropropane	7.415	63	38455	17.893	ug/l		94
46) Dibromomethane	7.568	93	28033	17.924	ug/l		99
47) Bromodichloromethane	7.811	83	56375	17.468	ug/l		94
48) Methyl methacrylate	7.683	41	41895	17.332	ug/l		97
49) 1,4-Dioxane	7.647	88	10914	446.778	ug/l		96
51) 4-Methyl-2-Pentanone	8.561	43	259334	96.387	ug/l		100
52) Toluene	8.708	92	91422	17.679	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	52789	16.036	ug/l		95
54) cis-1,3-Dichloropropene	8.354	75	56367	16.020	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	36370	18.240	ug/l		97
56) Ethyl methacrylate	9.104	69	56127	17.924	ug/l		97
57) 1,3-Dichloropropane	9.293	76	63358	18.497	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	150794	107.686	ug/l		100
59) 2-Hexanone	9.415	43	181591	93.973	ug/l		98
60) Dibromochloromethane	9.506	129	41641	18.125	ug/l		99
61) 1,2-Dibromoethane	9.598	107	38724	19.067	ug/l		100
64) Tetrachloroethene	9.262	164	30658	18.494	ug/l		93
65) Chlorobenzene	10.061	112	102193	17.689	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	34887	17.500	ug/l		99
67) Ethyl Benzene	10.177	91	171255	17.180	ug/l		99
68) m/p-Xylenes	10.287	106	130995	35.307	ug/l		99
69) o-Xylene	10.628	106	62705	17.473	ug/l		99
70) Styrene	10.640	104	110018	17.497	ug/l		98
71) Bromoform	10.780	173	26057	17.505	ug/l	#	100
73) Isopropylbenzene	10.945	105	160236	16.911	ug/l		99
74) N-amyl acetate	10.829	43	74935	17.343	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	53151	18.541	ug/l		99
76) 1,2,3-Trichloropropane	11.226	75	53748	21.300	ug/l		92
77) Bromobenzene	11.183	156	40990	17.565	ug/l		96
78) n-propylbenzene	11.286	91	188833	16.859	ug/l		99
79) 2-Chlorotoluene	11.347	91	115965	16.904	ug/l		97
80) 1,3,5-Trimethylbenzene	11.433	105	133906	17.201	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	13693	13.838	ug/l		99
82) 4-Chlorotoluene	11.439	91	138107	17.045	ug/l		99
83) tert-Butylbenzene	11.701	119	133788	16.789	ug/l		100
84) 1,2,4-Trimethylbenzene	11.738	105	133626	16.931	ug/l		97
85) sec-Butylbenzene	11.872	105	162042	17.119	ug/l		99
86) p-Isopropyltoluene	11.994	119	134959	16.841	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	75401	17.395	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	75954	17.073	ug/l		98
89) n-Butylbenzene	12.317	91	121947	16.446	ug/l		99
90) Hexachloroethane	12.518	117	22920	16.291	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	72271	17.501	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	10228	17.622	ug/l		97
93) 1,2,4-Trichlorobenzene	13.567	180	43903	16.358	ug/l		98
94) Hexachlorobutadiene	13.707	225	15848	17.385	ug/l		96
95) Naphthalene	13.756	128	138889	16.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.945	180	42676	17.094	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

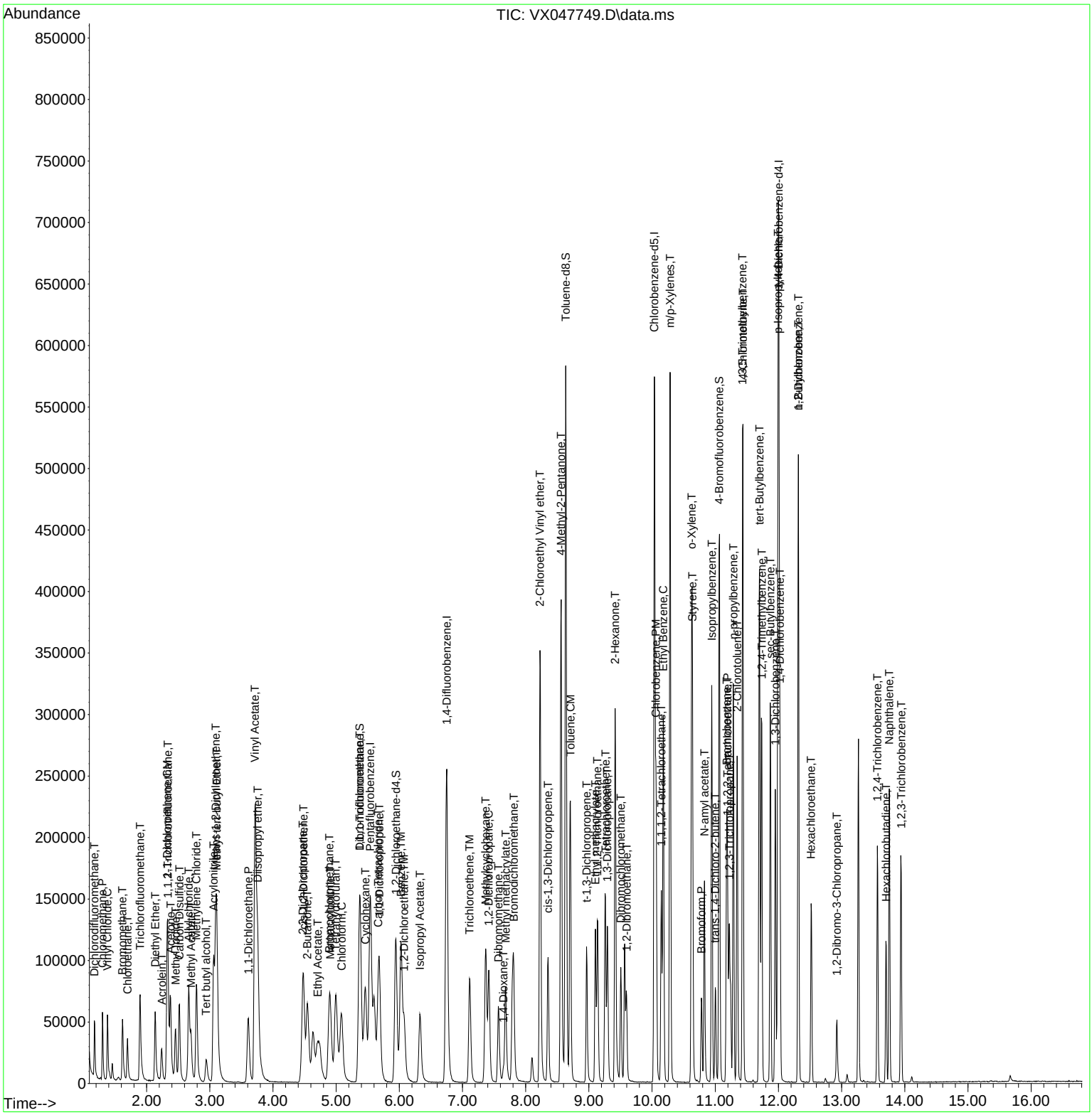
(#) = qualifier out of range (m) = manual integration (+) = signals summed

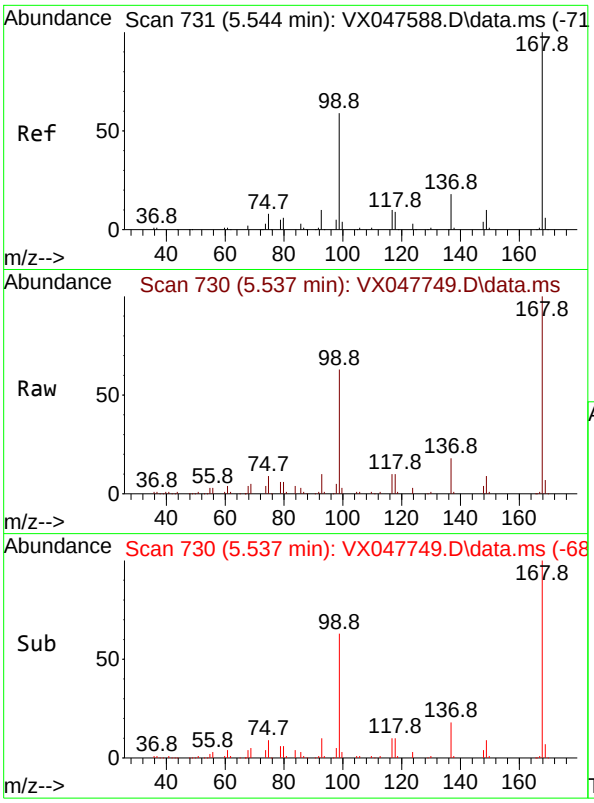
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047749.D
Acq On : 24 Sep 2025 04:14
Operator : JC/MD
Sample : VX0923WBSD03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Quant Time: Sep 24 05:33:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



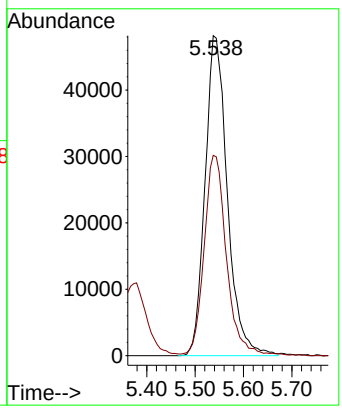


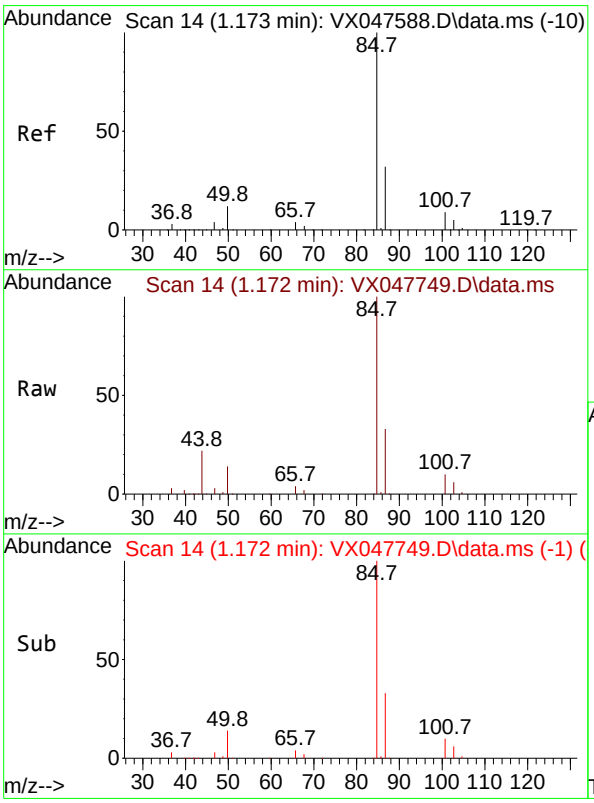
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:168 Resp: 154222

Ion	Ratio	Lower	Upper
168	100		
99	62.0	48.8	73.2

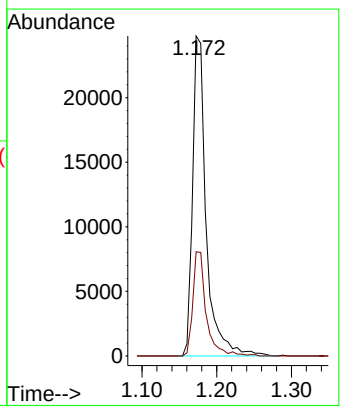


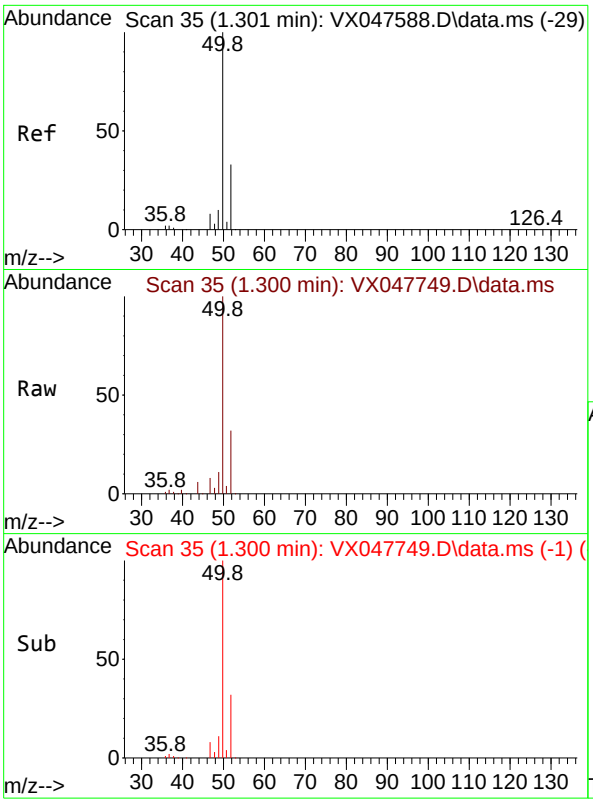


#2
Dichlorodifluoromethane
Concen: 19.633 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 85 Resp: 31354

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



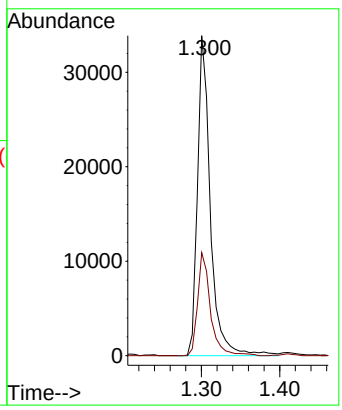


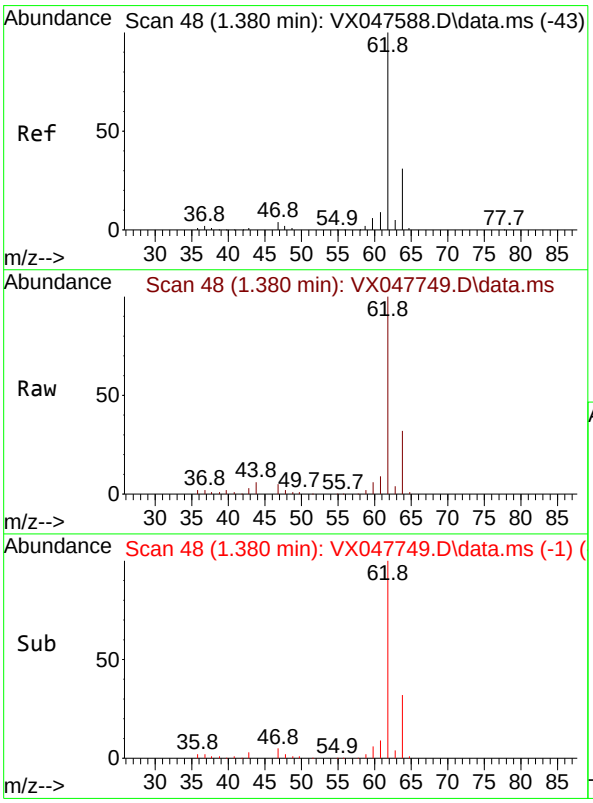
#3
Chloromethane
Concen: 18.490 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 50 Resp: 38808

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1

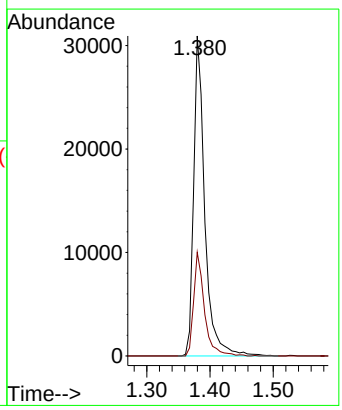


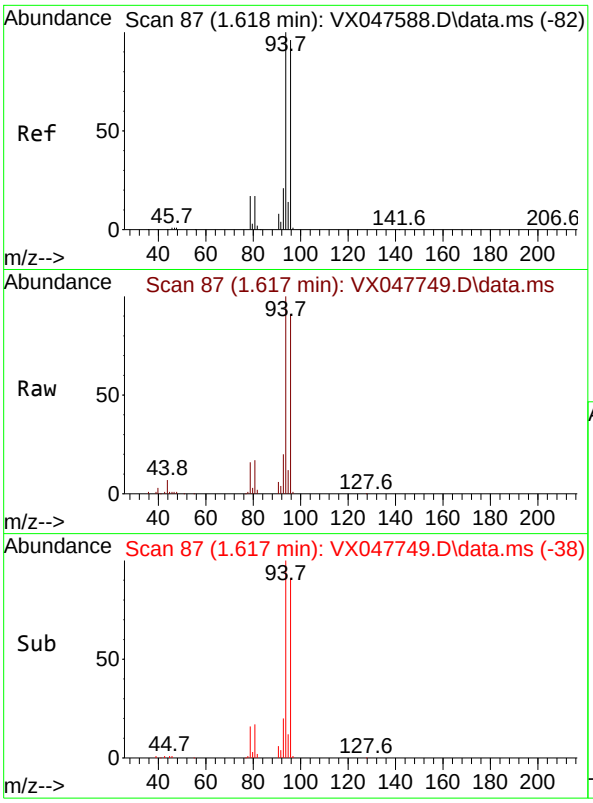


#4
Vinyl Chloride
Concen: 18.441 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 62 Resp: 37889

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.9	37.3



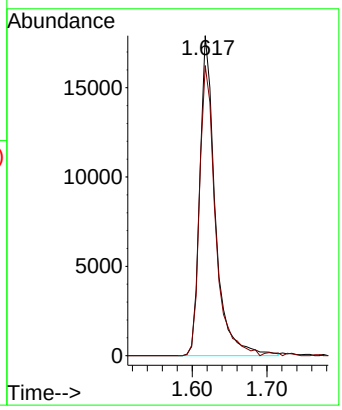


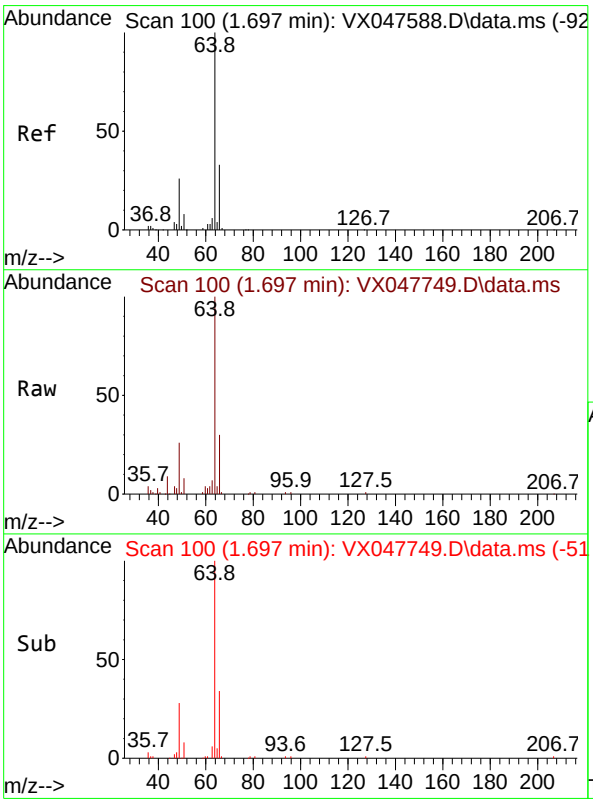
#5
Bromomethane
Concen: 19.739 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 94 Resp: 25717

Ion	Ratio	Lower	Upper
94	100		
96	90.7	76.6	115.0

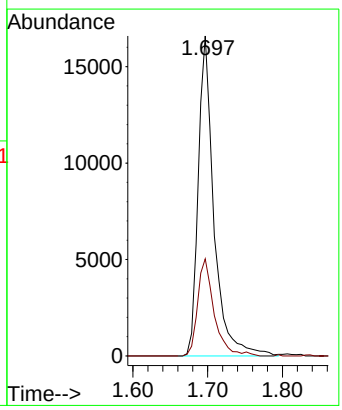


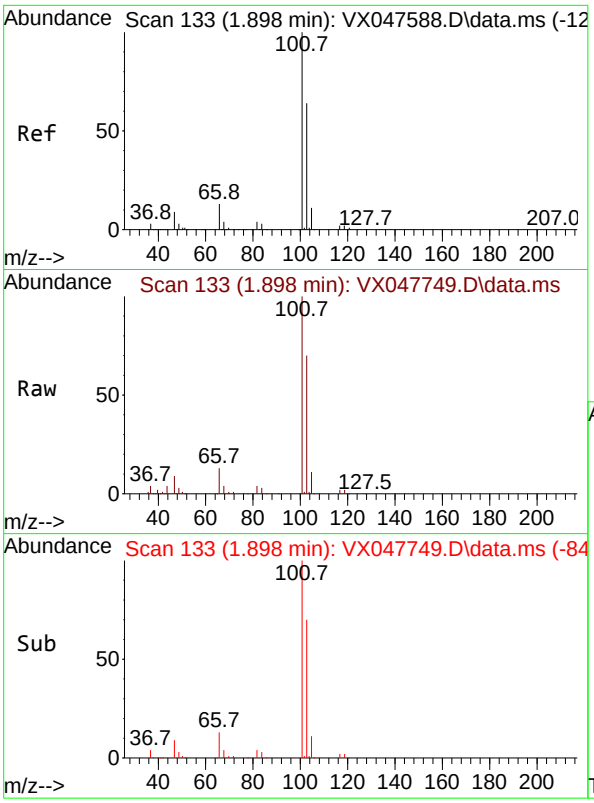


#6
Chloroethane
Concen: 17.573 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 64 Resp: 24132

Ion	Ratio	Lower	Upper
64	100		
66	31.3	26.1	39.1



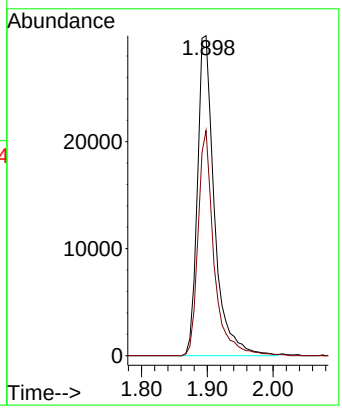


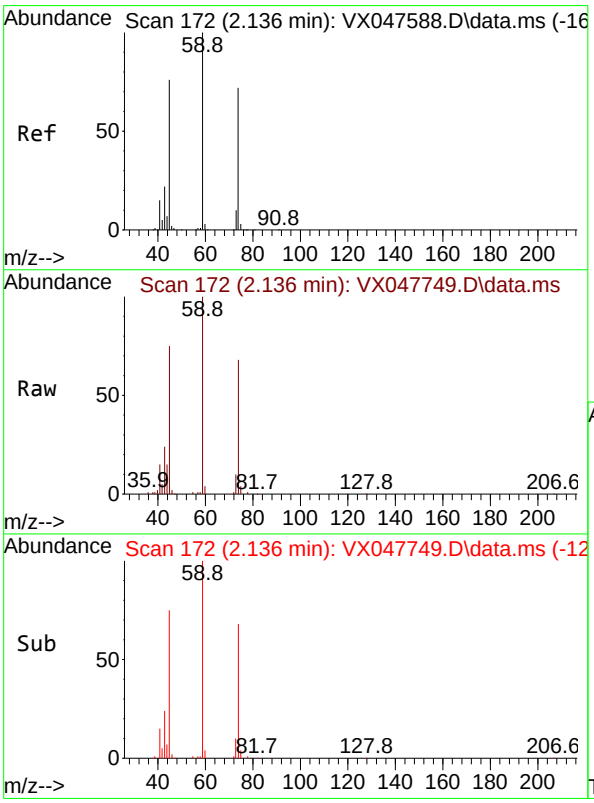
#7
Trichlorofluoromethane
Concen: 17.620 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:101 Resp: 53751

Ion	Ratio	Lower	Upper
101	100		
103	70.4	51.4	77.2

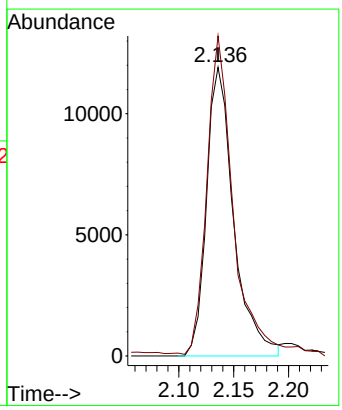


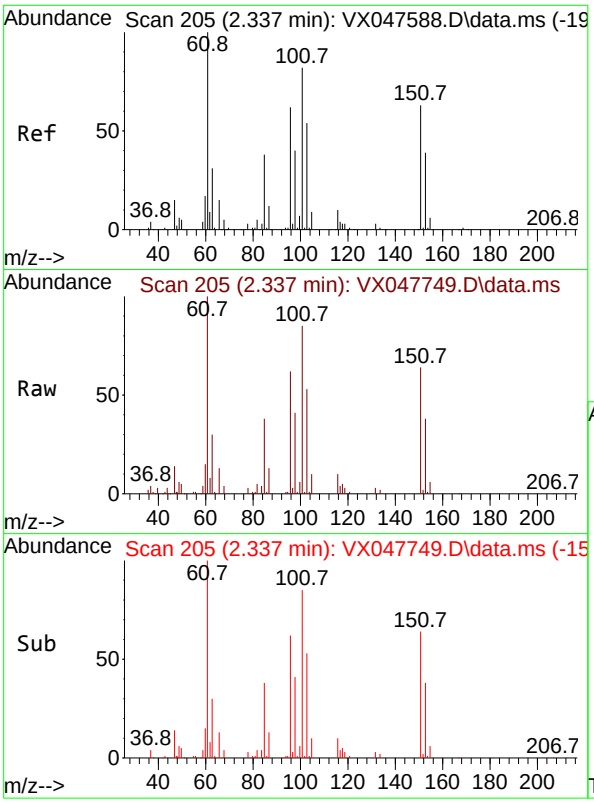


#8
Diethyl Ether
Concen: 16.462 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 74 Resp: 20543

Ion	Ratio	Lower	Upper
74	100		
45	110.1	52.3	156.8



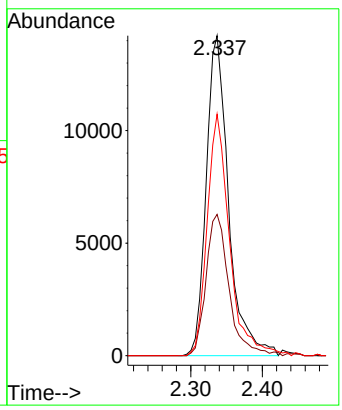


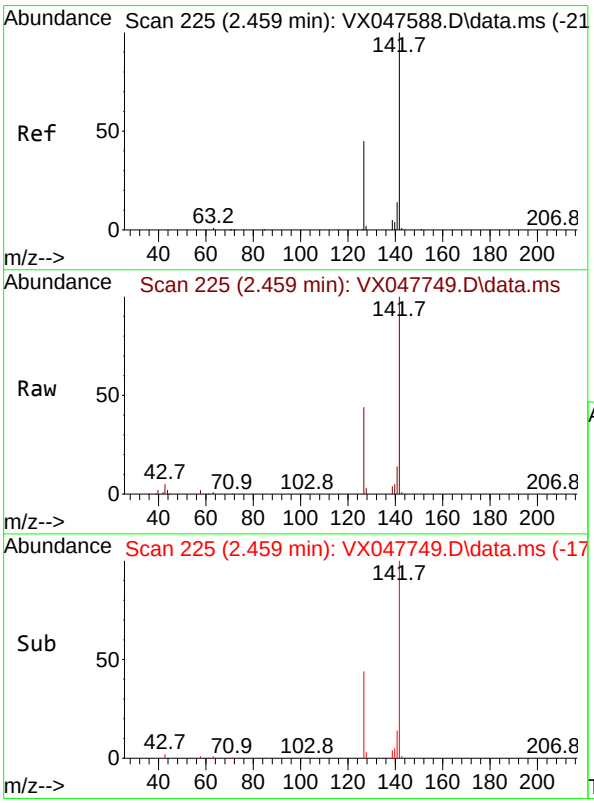
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.267 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:101 Resp: 30800

Ion	Ratio	Lower	Upper
101	100		
85	45.6	35.5	53.3
151	75.6	59.4	89.0

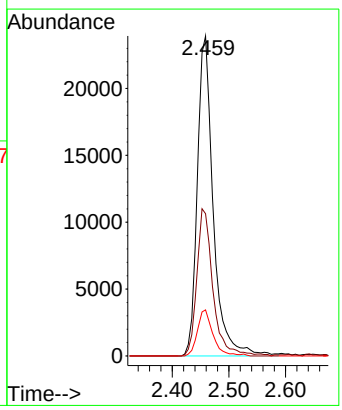


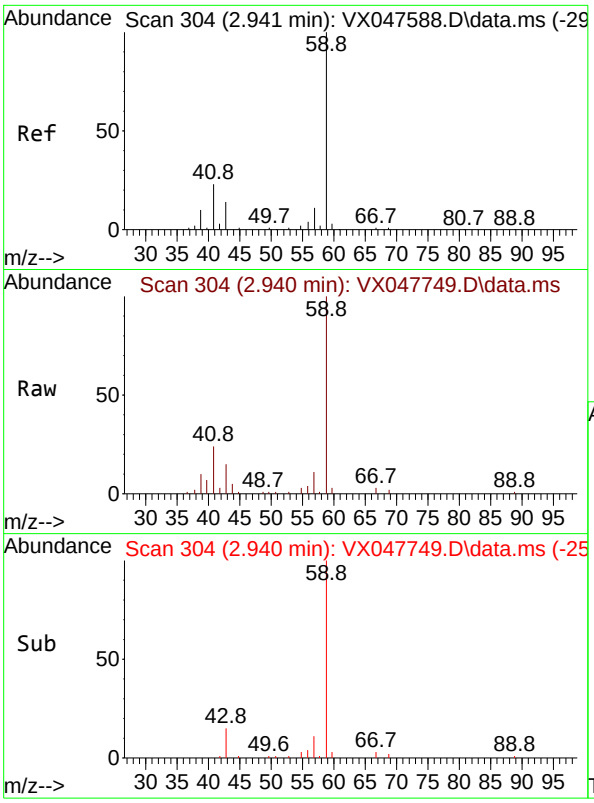


#10
Methyl Iodide
Concen: 16.795 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:142 Resp: 46724

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.1	11.4	17.0



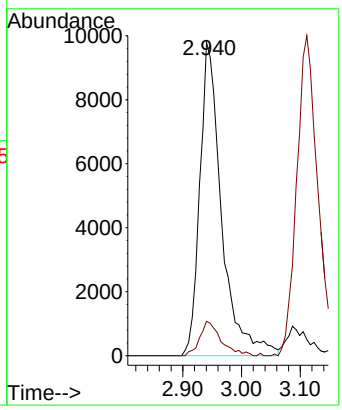


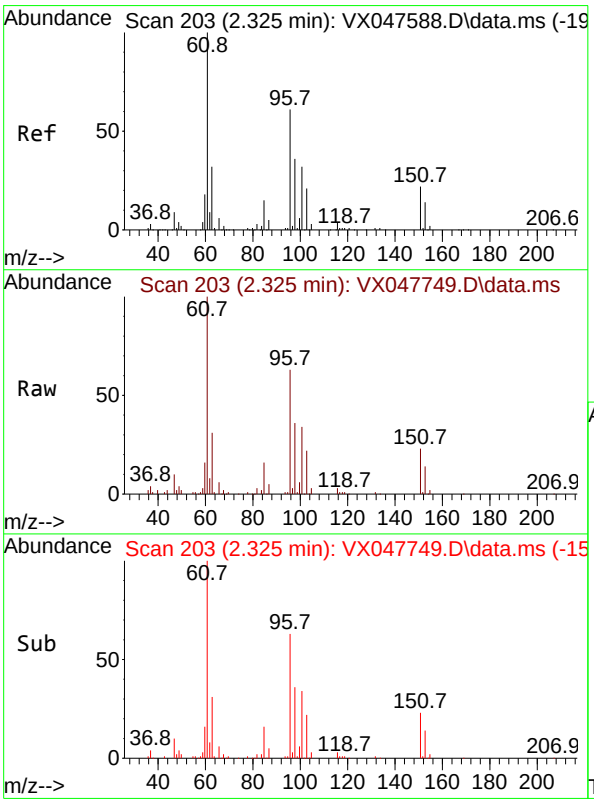
#11
Tert butyl alcohol
Concen: 92.450 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 59 Resp: 25276

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5

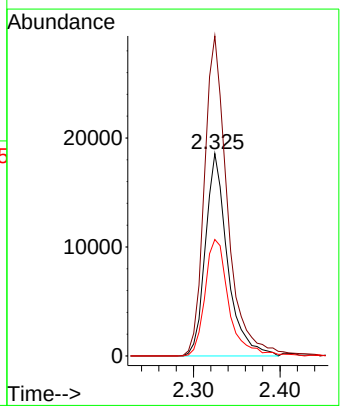


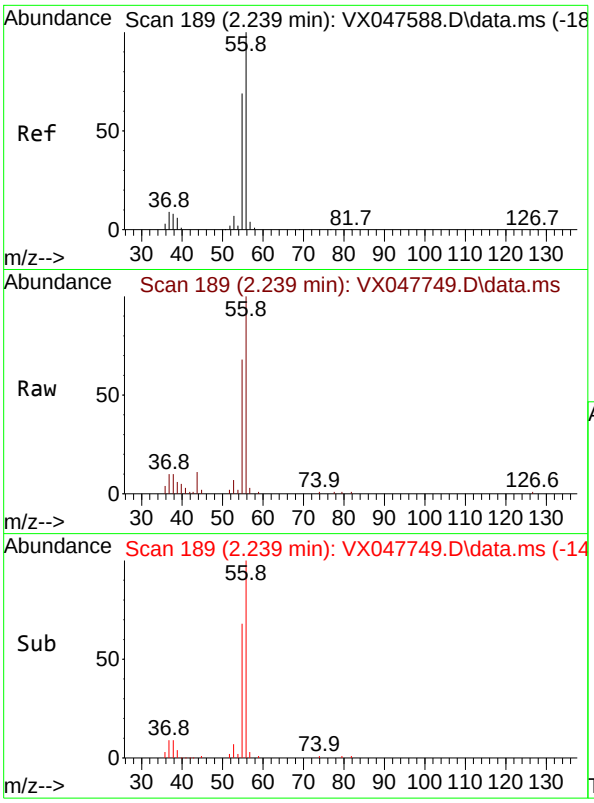


#12
1,1-Dichloroethene
Concen: 17.992 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 96 Resp: 32967

Ion	Ratio	Lower	Upper
96	100		
61	158.1	131.0	196.6
98	57.5	47.7	71.5



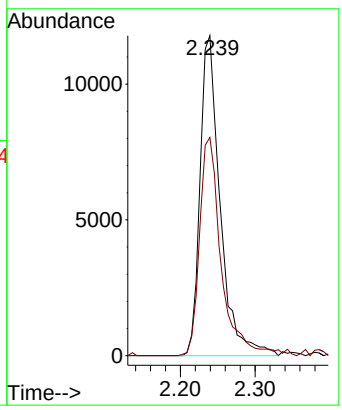


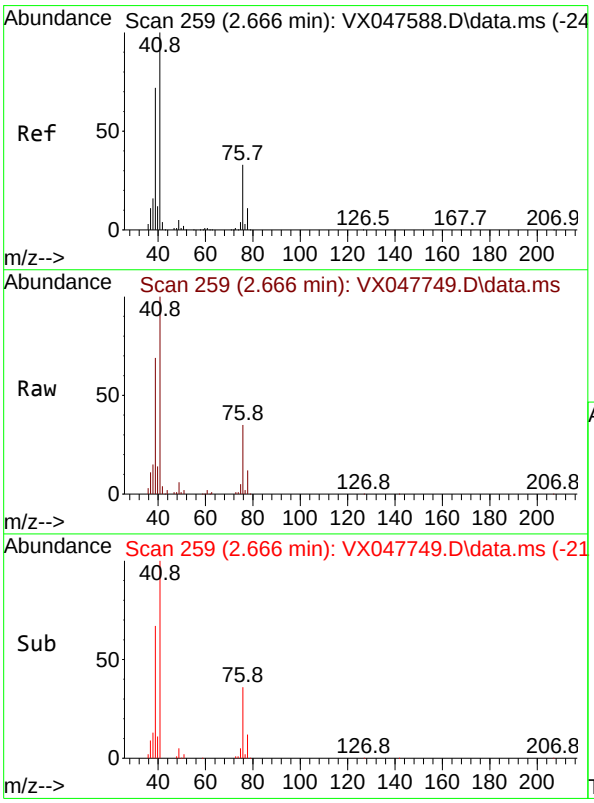
#13
Acrolein
Concen: 87.491 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 56 Resp: 22043

Ion	Ratio	Lower	Upper
56	100		
55	73.5	57.2	85.8

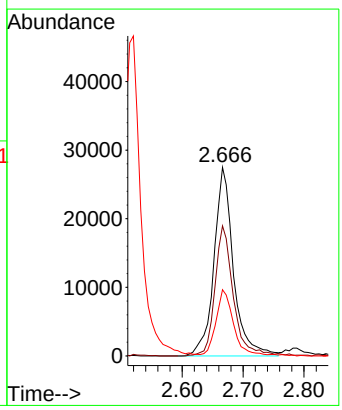


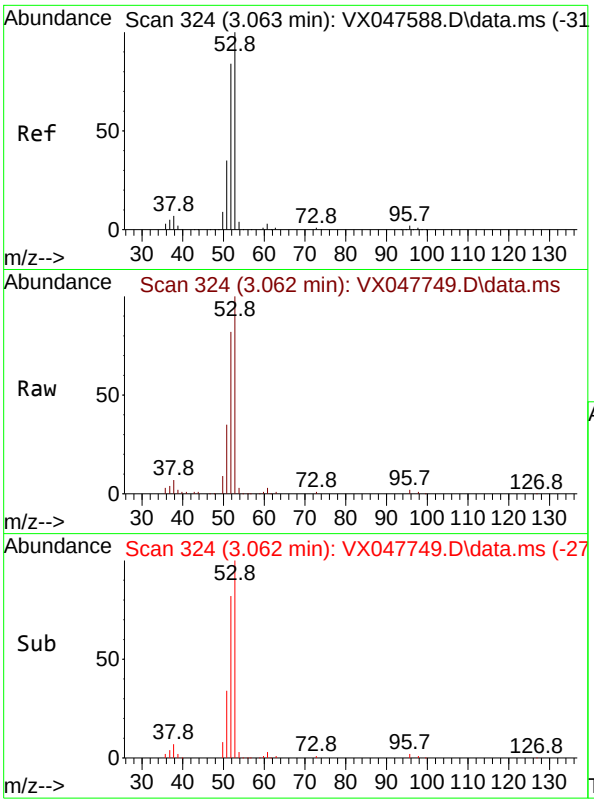


#14
Allyl chloride
Concen: 16.234 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 41 Resp: 61383

Ion	Ratio	Lower	Upper
41	100		
39	65.1	54.7	82.1
76	32.2	25.7	38.5



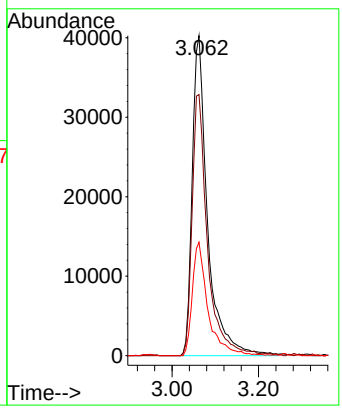


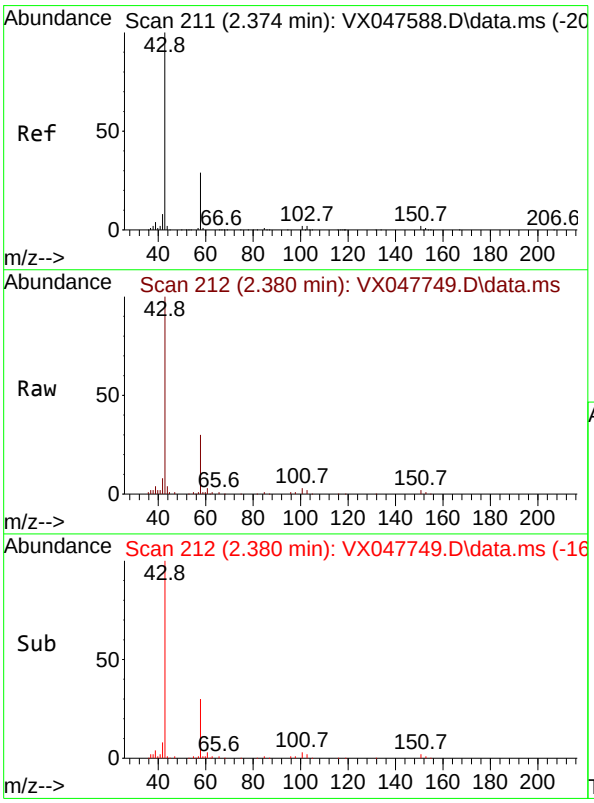
#15
Acrylonitrile
Concen: 97.927 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 53 Resp: 99171

Ion	Ratio	Lower	Upper
53	100		
52	81.3	66.4	99.6
51	36.2	29.5	44.3

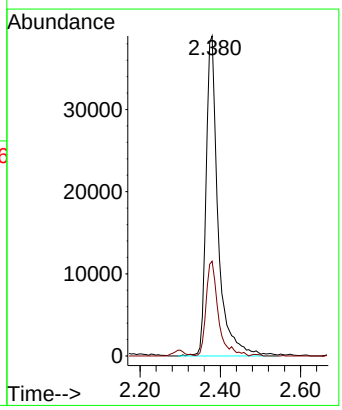


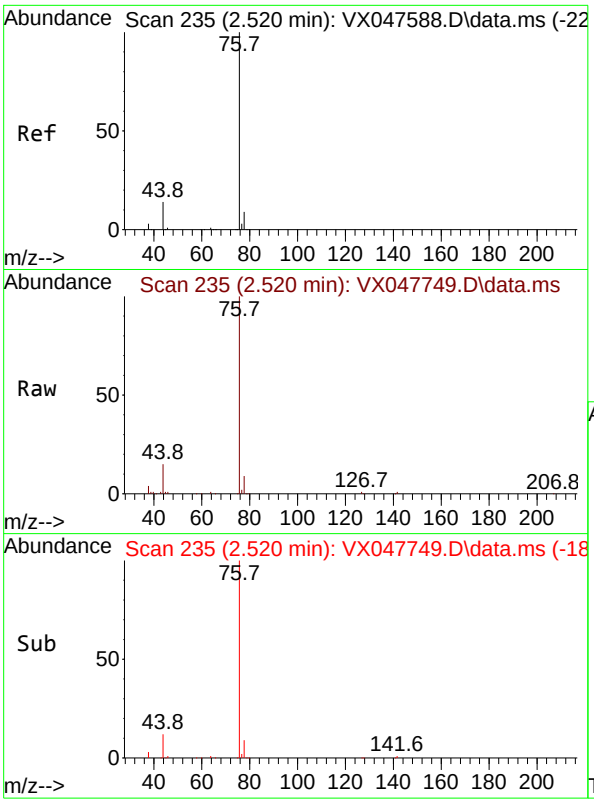


#16
Acetone
Concen: 75.863 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 80974

Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.4	35.0



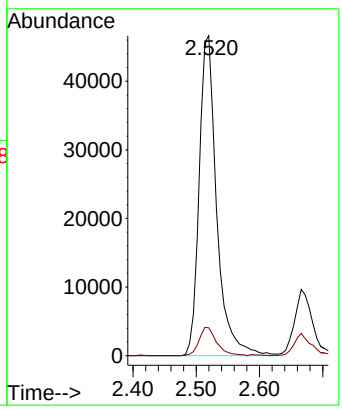


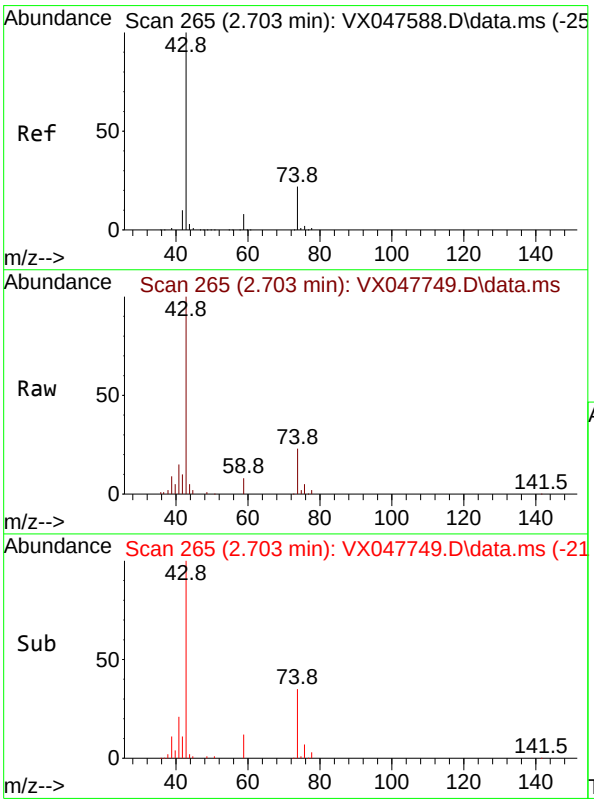
#17
Carbon Disulfide
Concen: 17.953 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 76 Resp: 90054

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2

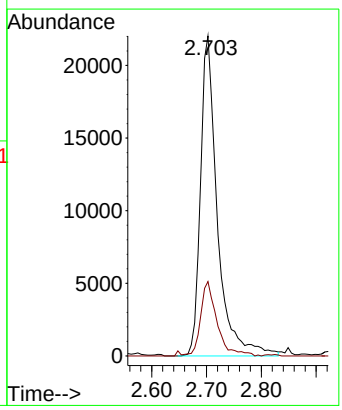


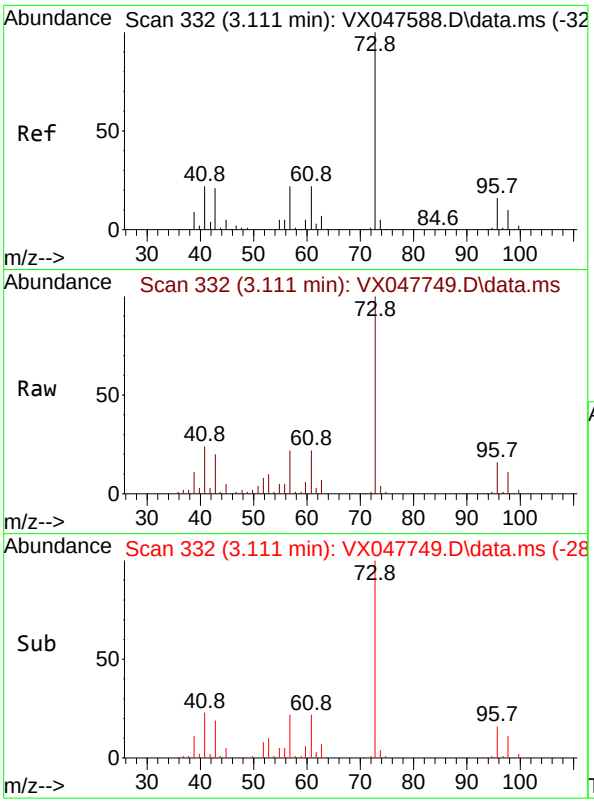


#18
Methyl Acetate
Concen: 19.846 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 47143

Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.4	26.2



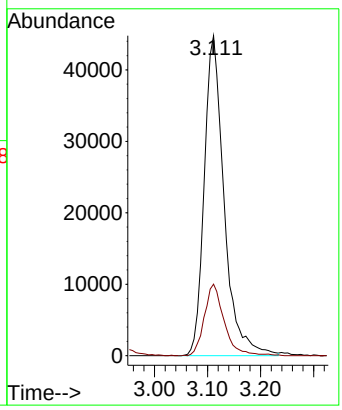


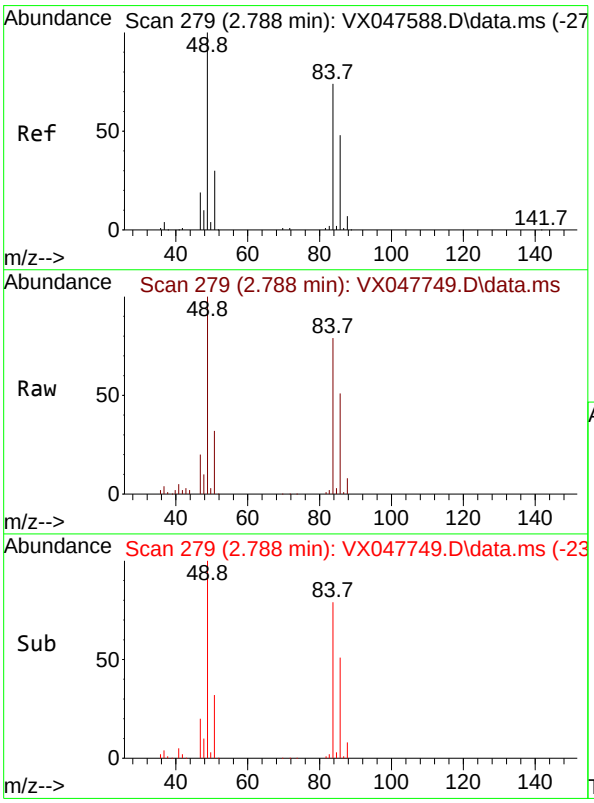
#19
Methyl tert-butyl Ether
Concen: 17.451 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 73 Resp: 116727

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.4	26.2

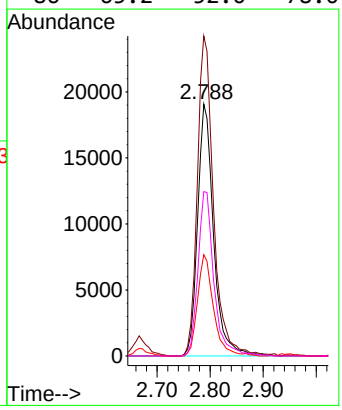


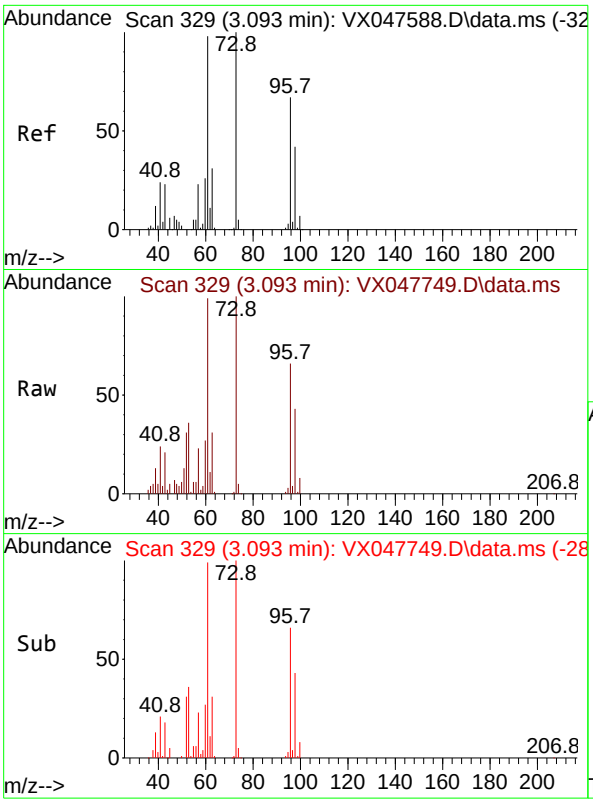


#20
Methylene Chloride
Concen: 17.666 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 84 Resp: 39914

Ion	Ratio	Lower	Upper
84	100		
49	127.0	108.6	162.8
51	40.2	32.6	48.8
86	65.2	52.0	78.0



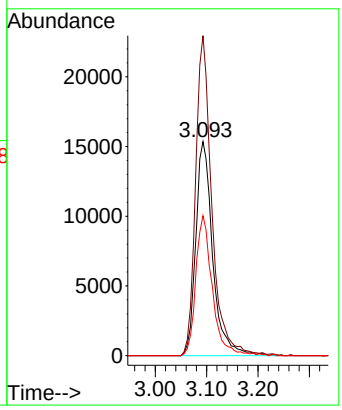


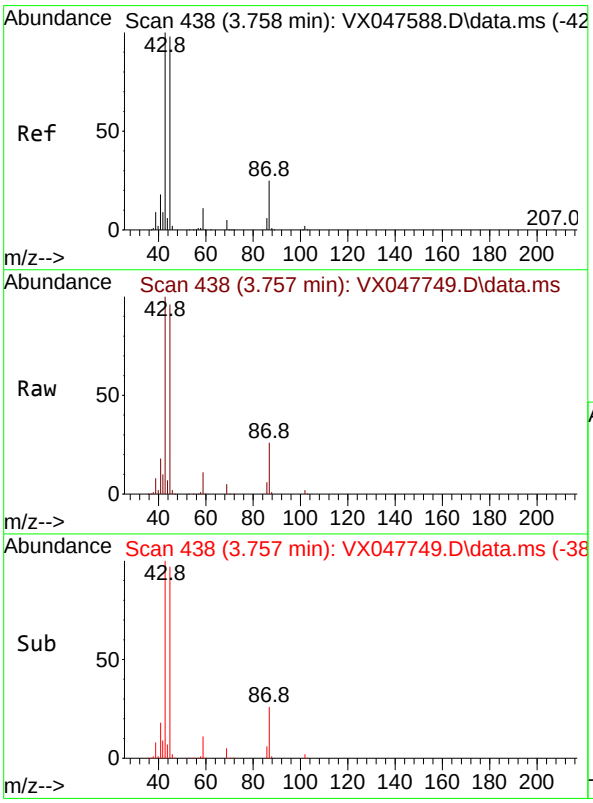
#21
trans-1,2-Dichloroethene
Concen: 17.798 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 96 Resp: 35110

Ion	Ratio	Lower	Upper
96	100		
61	140.9	116.2	174.2
98	61.7	49.3	73.9

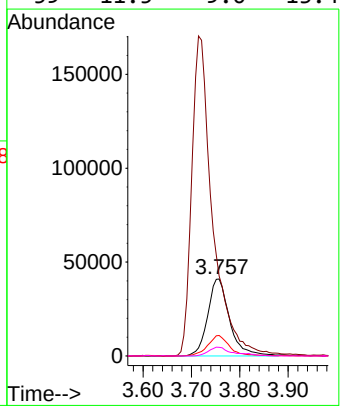


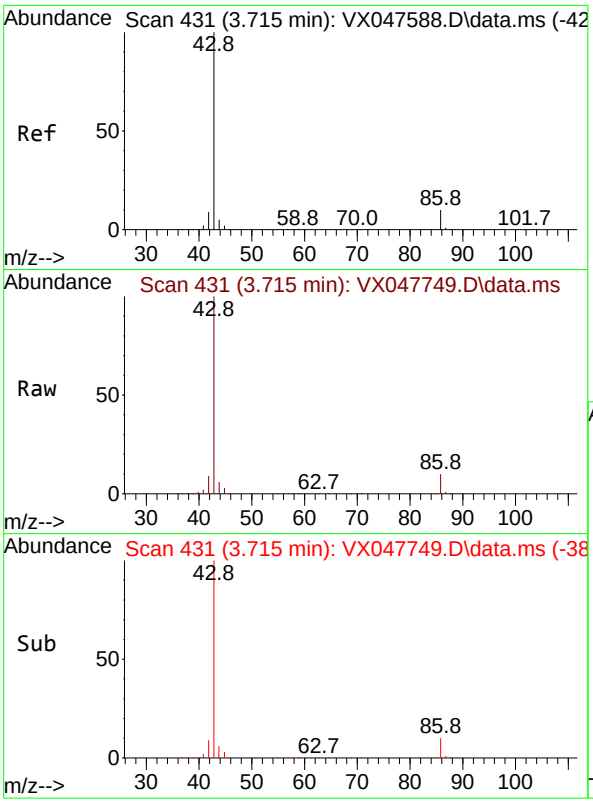


#22
Diisopropyl ether
Concen: 17.583 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 45 Resp: 128843

Ion	Ratio	Lower	Upper
45	100		
43	101.3	81.0	121.4
87	26.7	20.3	30.5
59	11.5	9.0	13.4



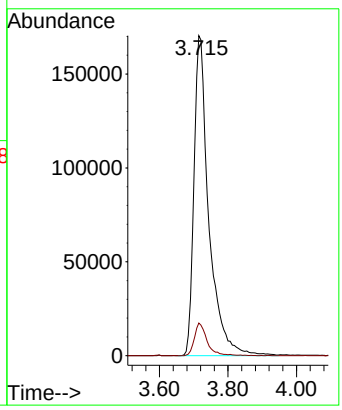


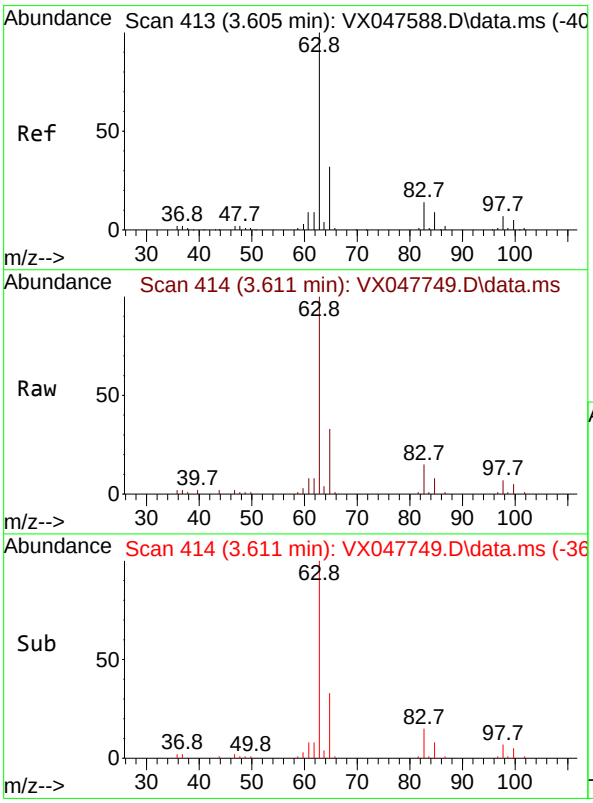
#23
Vinyl Acetate
Concen: 87.666 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 43 Resp: 514138

Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.8	11.8

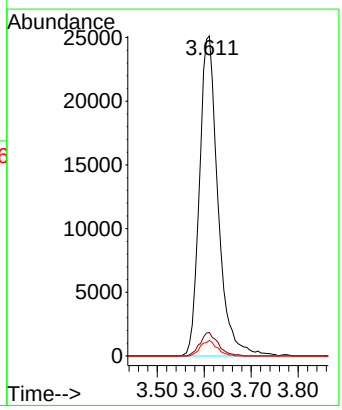


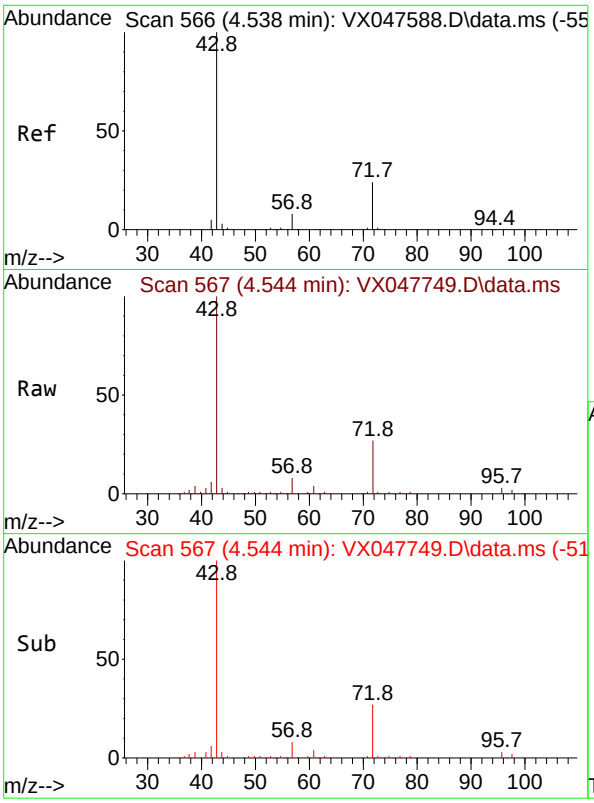


#24
1,1-Dichloroethane
Concen: 17.640 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 63 Resp: 68705

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.8	11.2
100	4.8	2.3	6.9



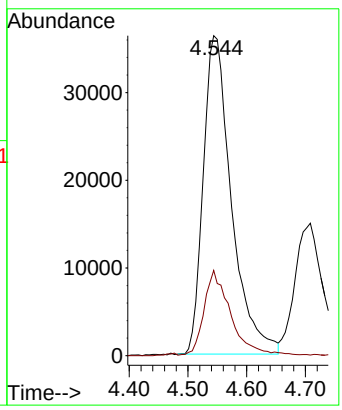


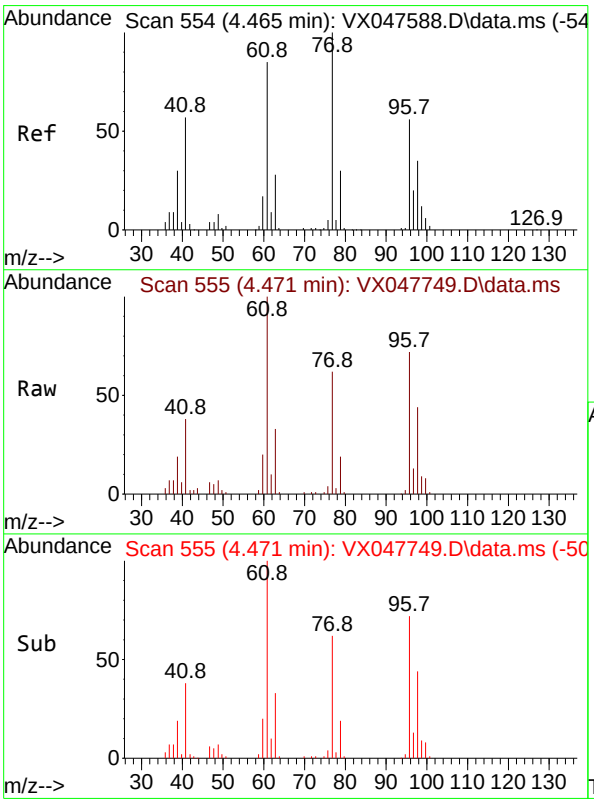
#25
2-Butanone
Concen: 90.824 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 43 Resp: 120923

Ion	Ratio	Lower	Upper
43	100		
72	27.7	20.1	30.1

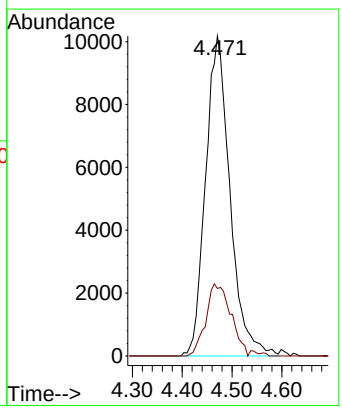


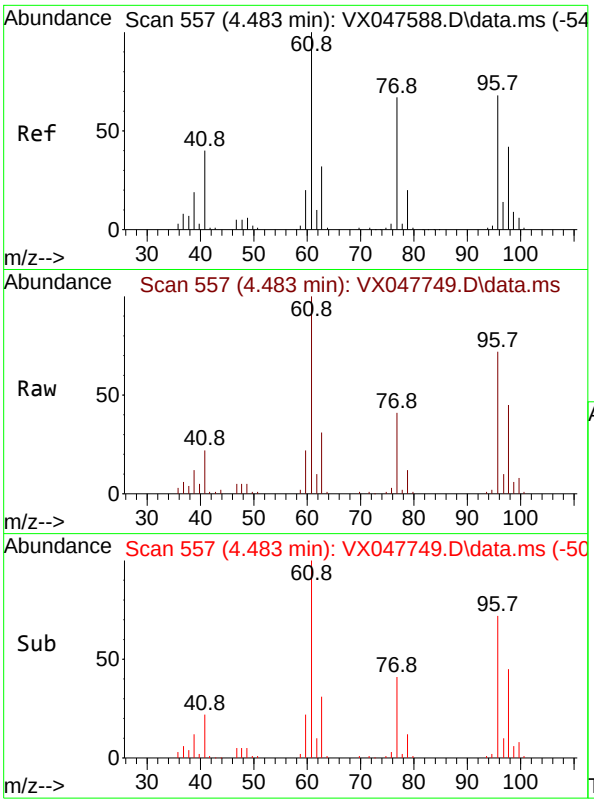


#26
2,2-Dichloropropane
Concen: 10.683 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 77 Resp: 34586

Ion	Ratio	Lower	Upper
77	100		
97	23.3	10.9	32.7



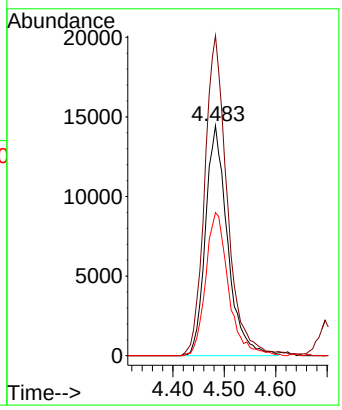


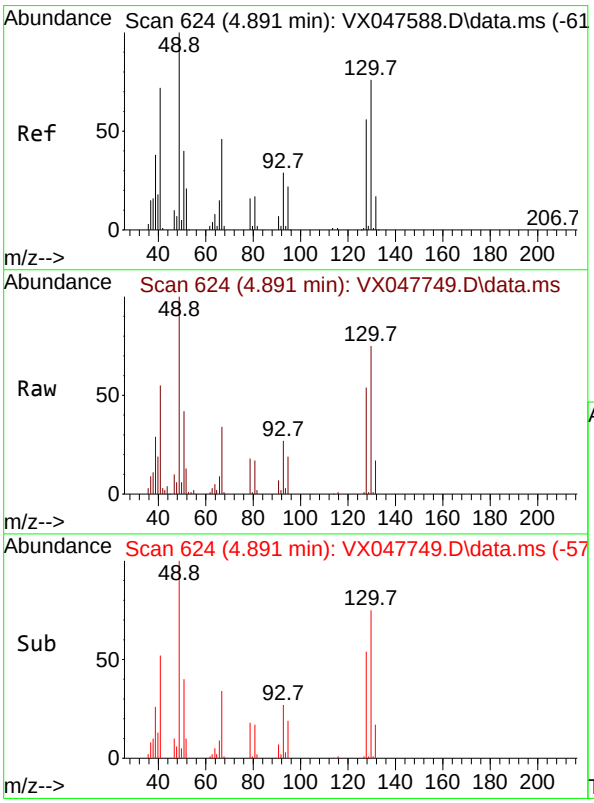
#27
cis-1,2-Dichloroethene
Concen: 17.862 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 96 Resp: 43152

Ion	Ratio	Lower	Upper
96	100		
61	141.0	0.0	303.2
98	64.3	0.0	127.8

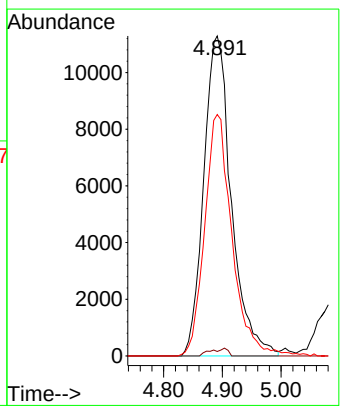


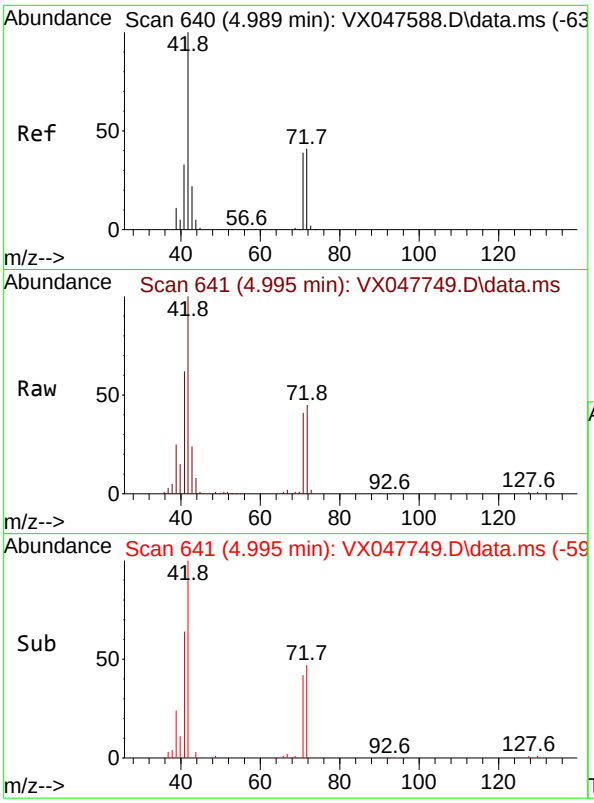


#28
Bromochloromethane
Concen: 21.721 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 49 Resp: 36933

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	74.7	57.8	86.8



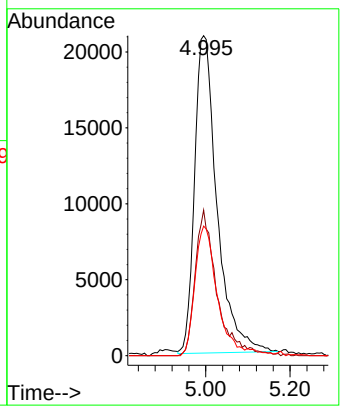


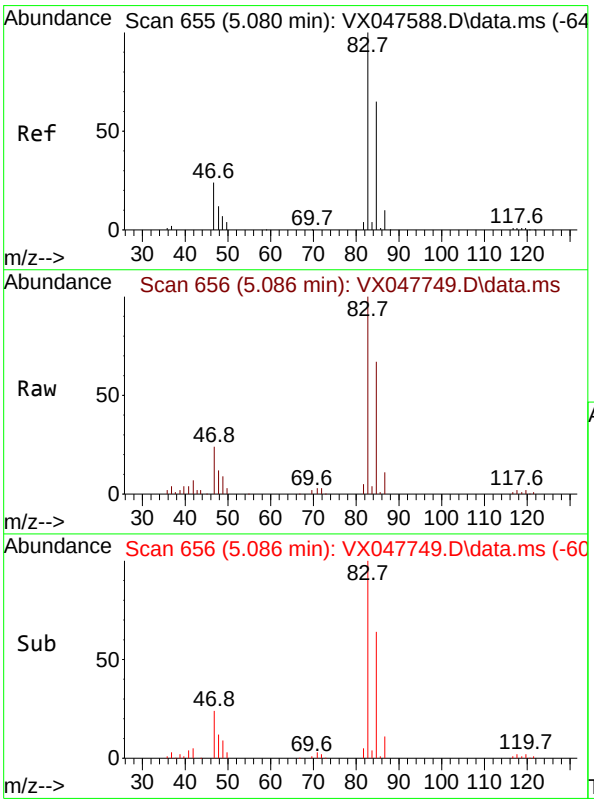
#29
Tetrahydrofuran
Concen: 96.655 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 42 Resp: 77415

Ion	Ratio	Lower	Upper
42	100		
72	44.2	34.2	51.2
71	39.9	31.9	47.9

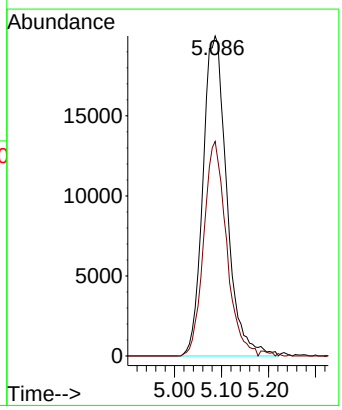


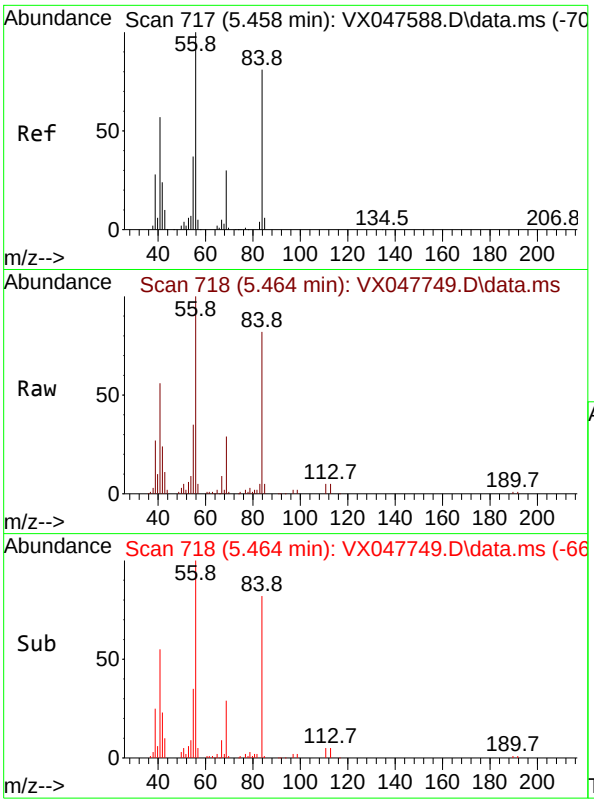


#30
Chloroform
Concen: 17.922 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 83 Resp: 70538

Ion	Ratio	Lower	Upper
83	100		
85	68.3	51.8	77.6



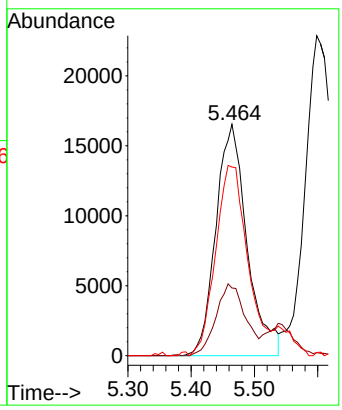


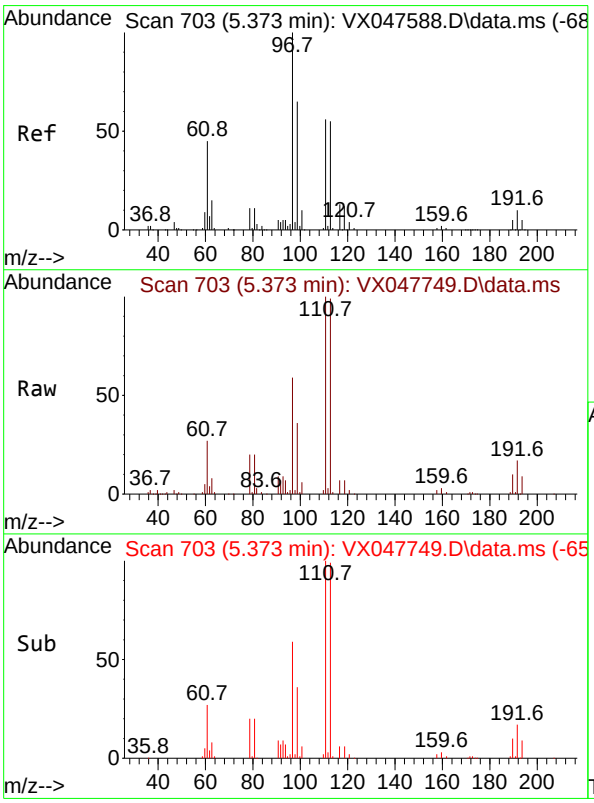
#31
Cyclohexane
Concen: 17.427 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 56 Resp: 56532

Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.8	35.8
84	81.5	64.6	97.0

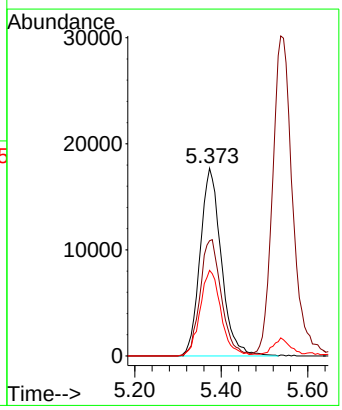


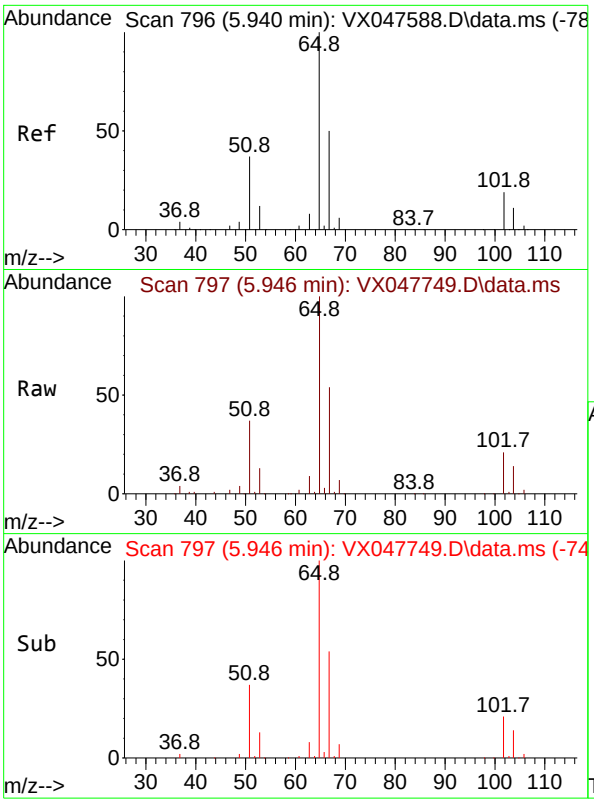


#32
1,1,1-Trichloroethane
Concen: 17.972 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 97 Resp: 59999

Ion	Ratio	Lower	Upper
97	100		
99	62.4	50.6	76.0
61	45.1	35.8	53.8



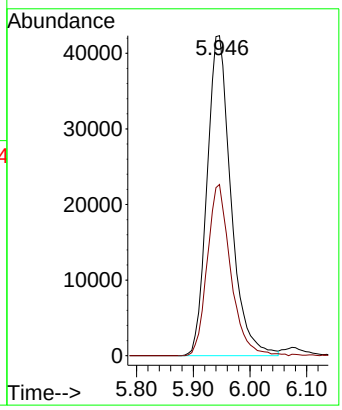


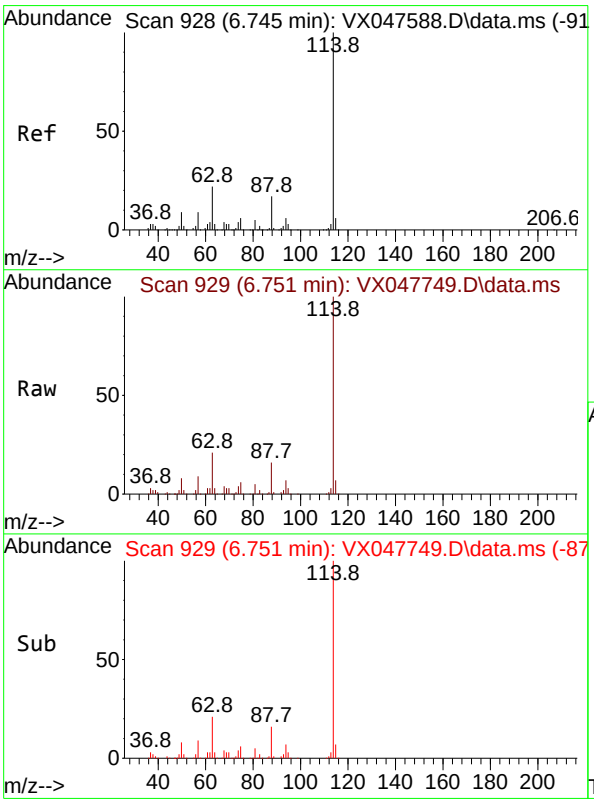
#33
1,2-Dichloroethane-d4
Concen: 50.353 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 65 Resp: 123608

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.0

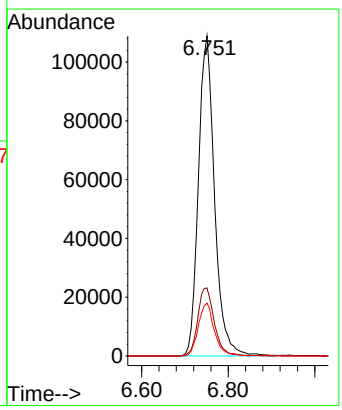


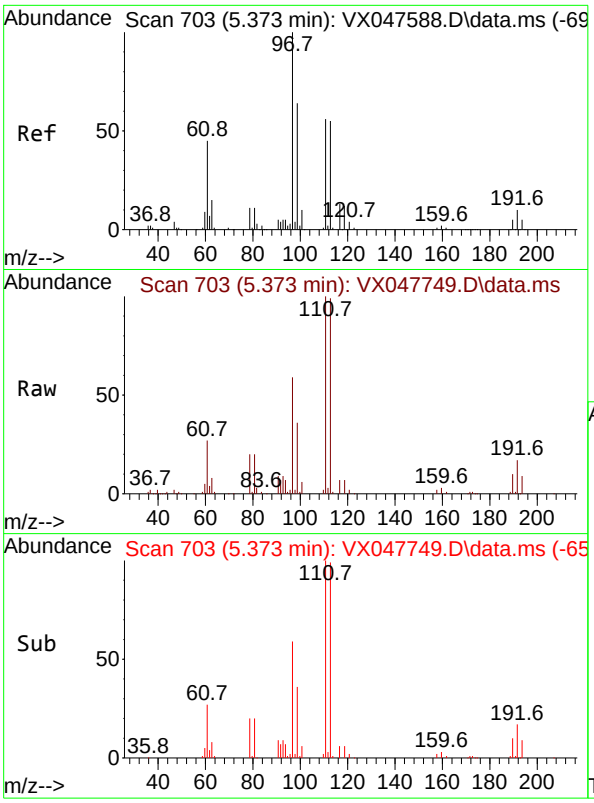


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:114 Resp: 281988

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.5	0.0	34.2



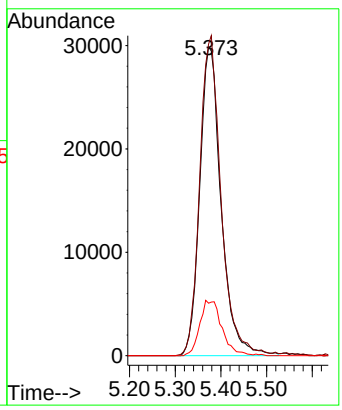


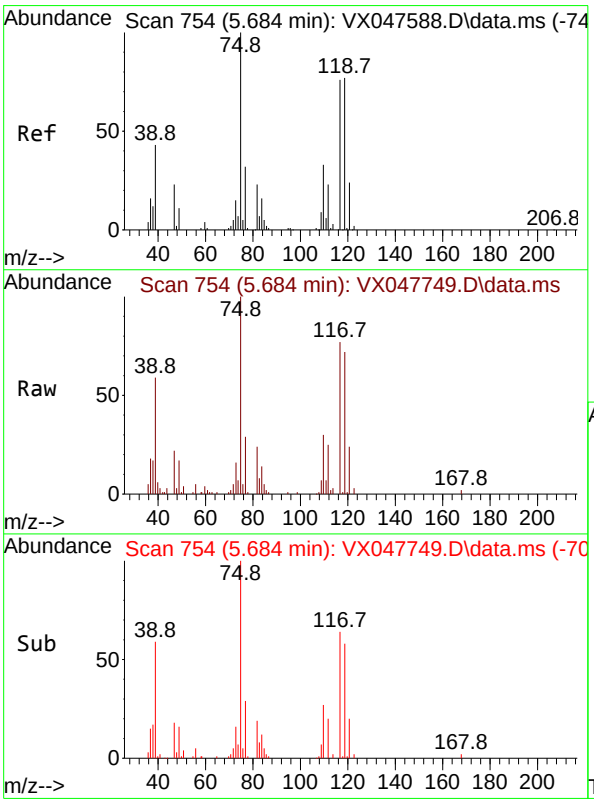
#35
Dibromofluoromethane
Concen: 51.300 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:113 Resp: 97017

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	18.4	14.2	21.4

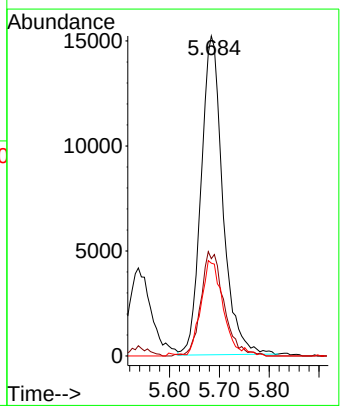


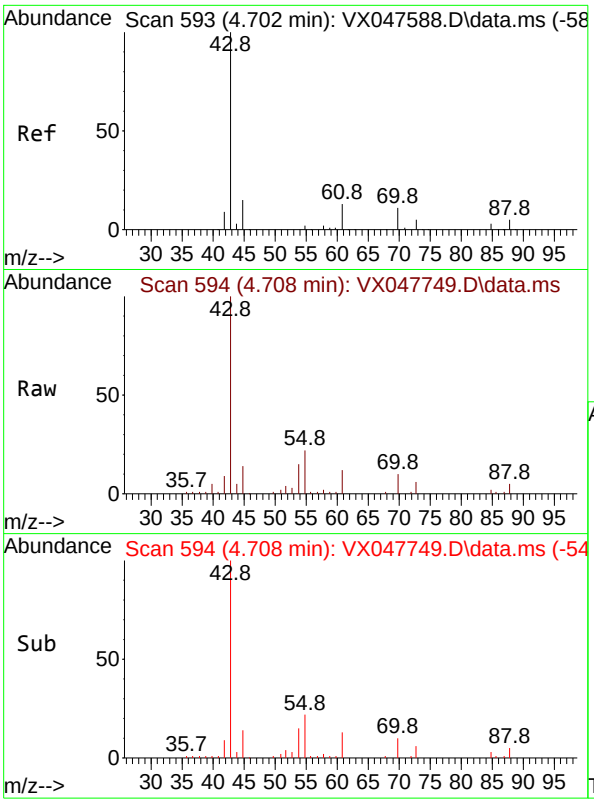


#36
1,1-Dichloropropene
Concen: 16.558 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 45756

Ion	Ratio	Lower	Upper
75	100		
110	34.8	16.7	50.1
77	30.9	24.3	36.5



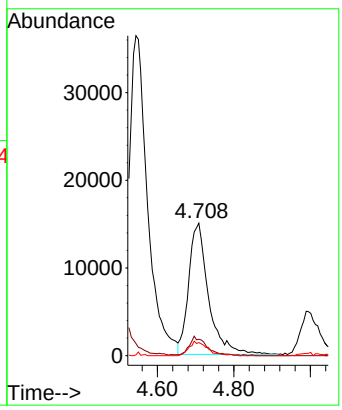


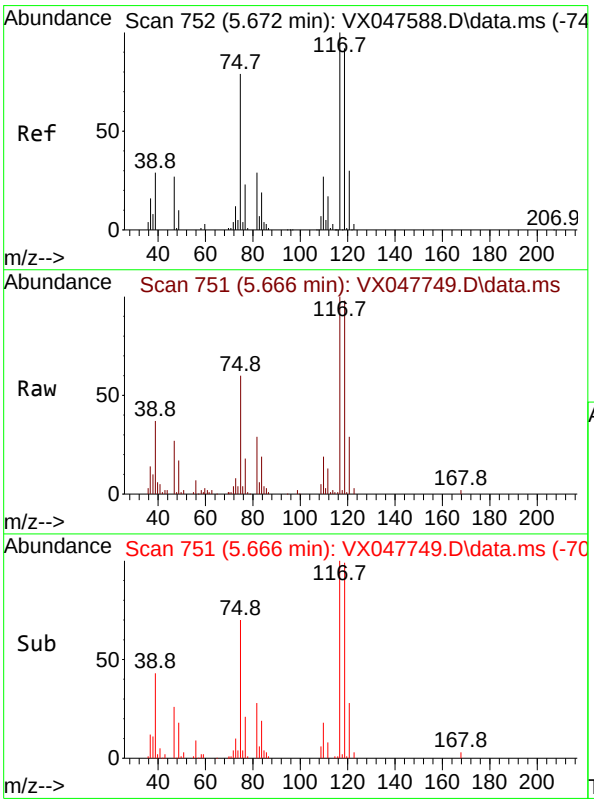
#37
Ethyl Acetate
Concen: 18.208 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 43 Resp: 53875

Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.8	14.8
70	9.9	7.9	11.9

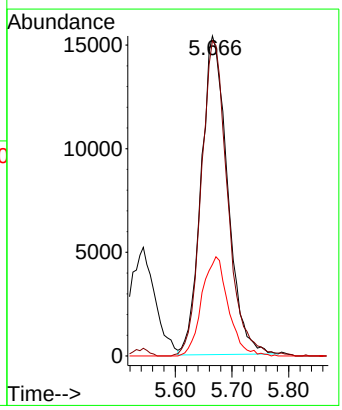


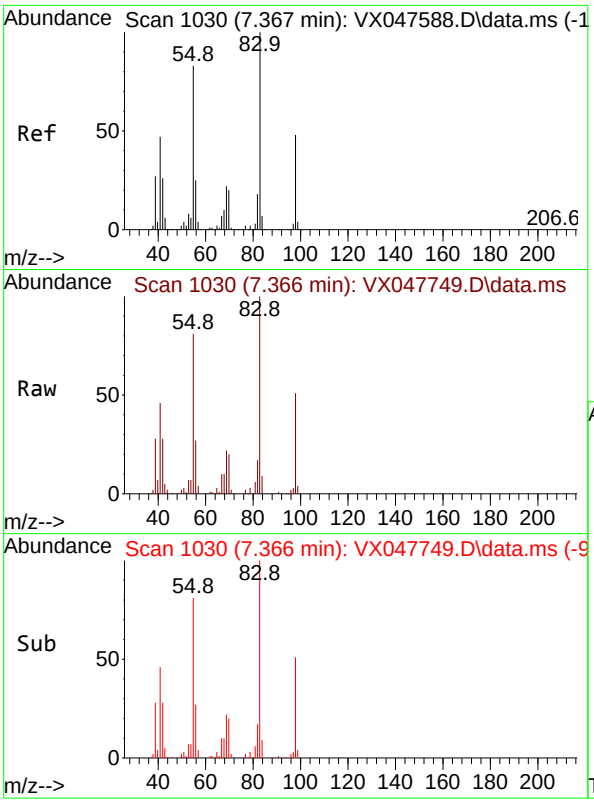


#38
Carbon Tetrachloride
Concen: 16.532 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:117 Resp: 49639

Ion	Ratio	Lower	Upper
117	100		
119	98.4	73.4	110.2
121	28.8	23.8	35.6



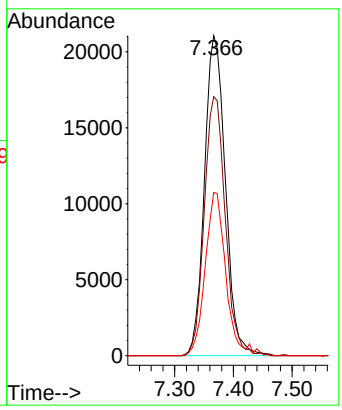


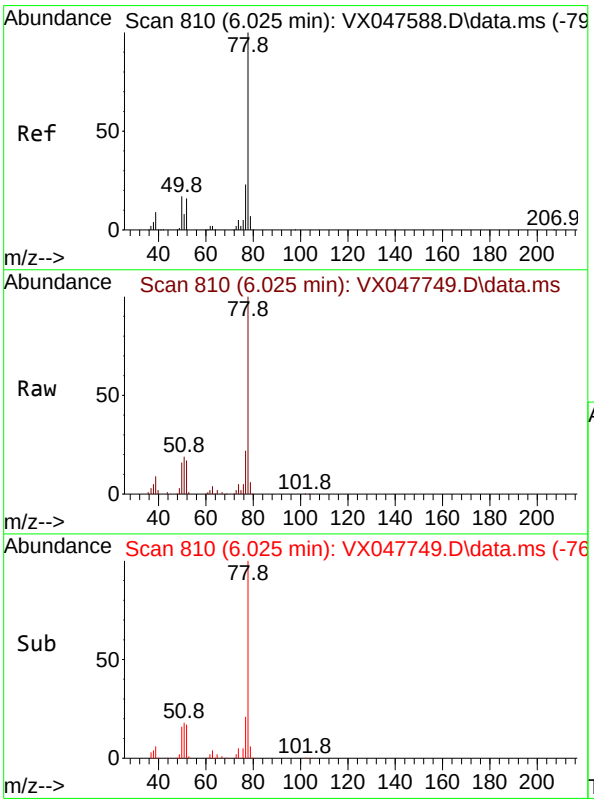
#39
Methylcyclohexane
Concen: 16.646 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 83 Resp: 52216

Ion	Ratio	Lower	Upper
83	100		
55	80.9	66.4	99.6
98	51.0	38.1	57.1

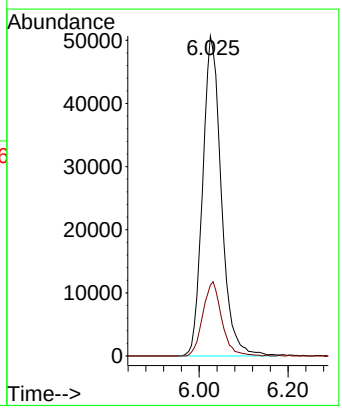


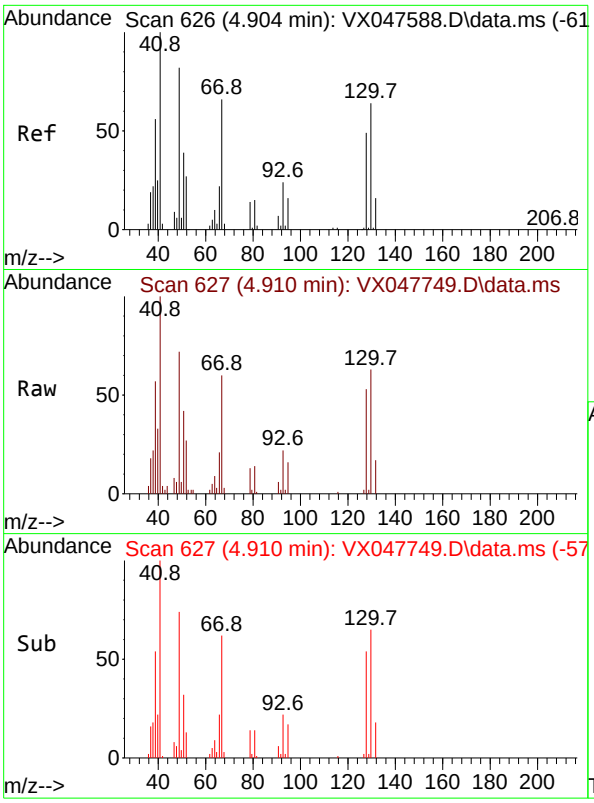


#40
Benzene
Concen: 17.674 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 78 Resp: 148339

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.8	28.2



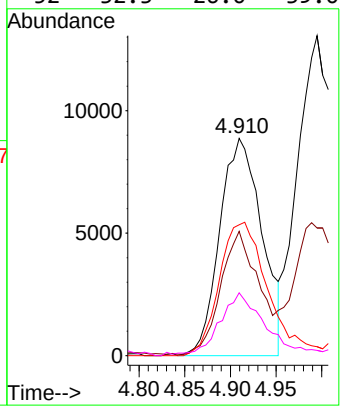


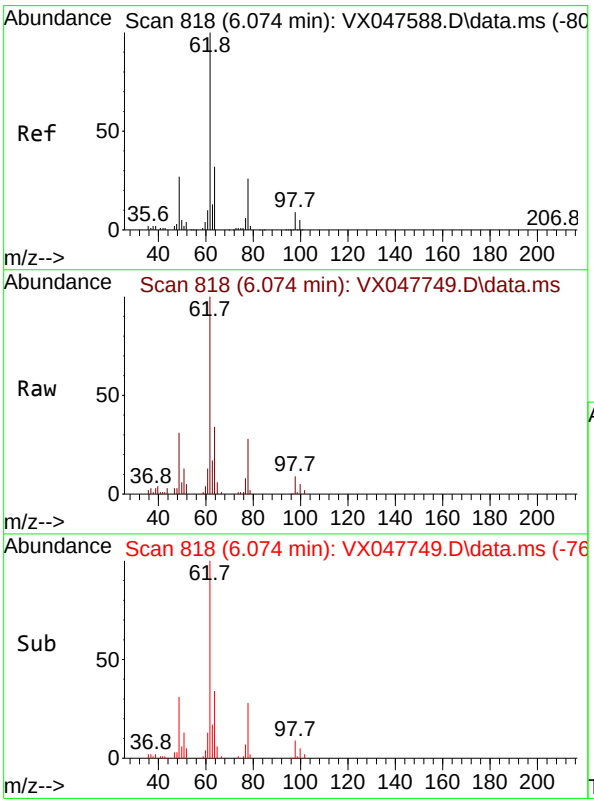
#41
Methacrylonitrile
Concen: 18.722 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 41 Resp: 28598

Ion	Ratio	Lower	Upper
41	100		
39	50.1	43.3	64.9
67	70.1	58.6	87.8
52	32.3	26.0	39.0

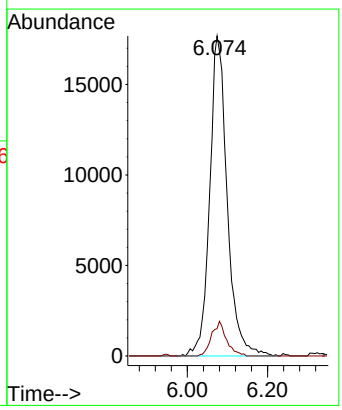


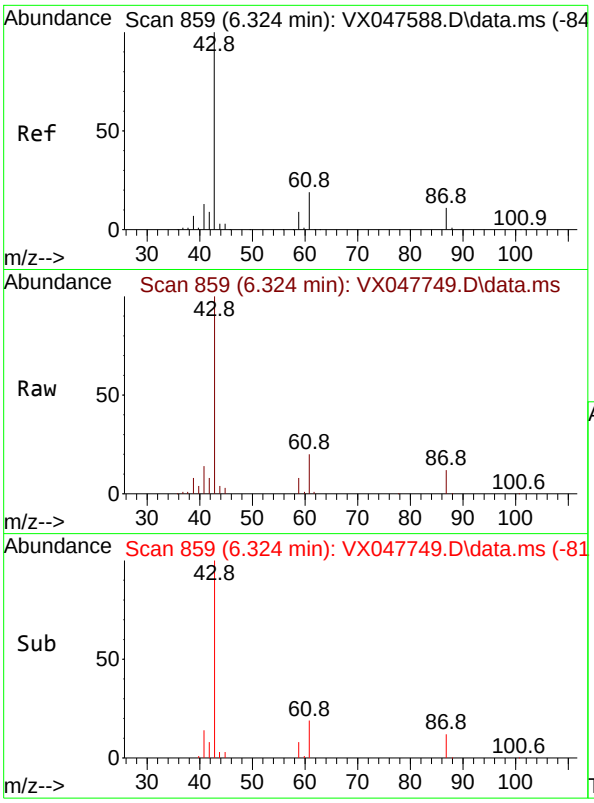


#42
1,2-Dichloroethane
Concen: 16.765 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 62 Resp: 53538

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0



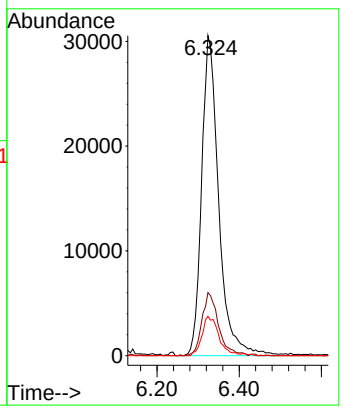


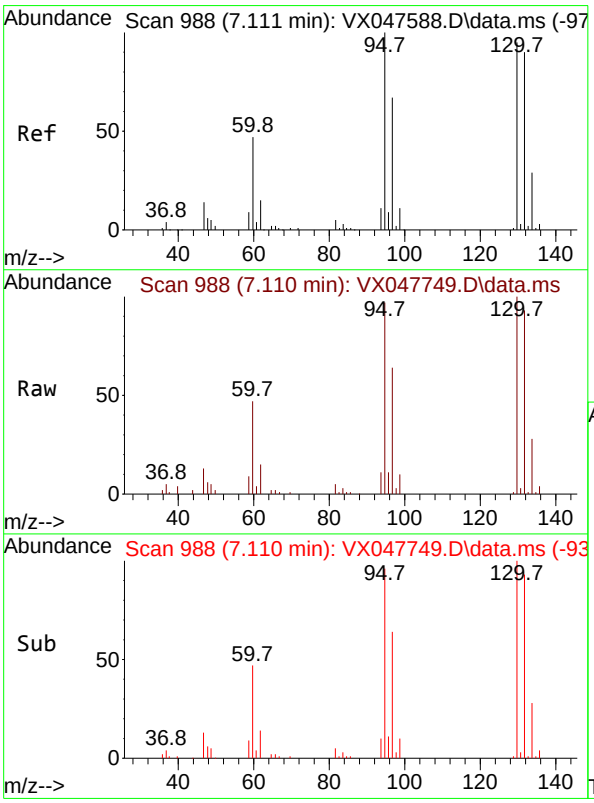
#43
Isopropyl Acetate
Concen: 18.134 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 43 Resp: 88000

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.2	22.8
87	12.1	9.6	14.4

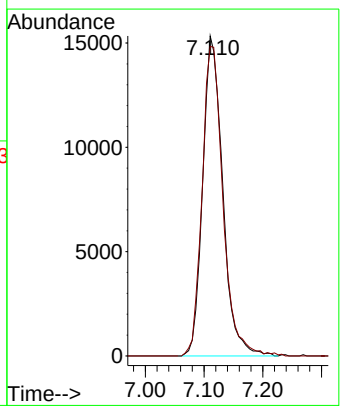


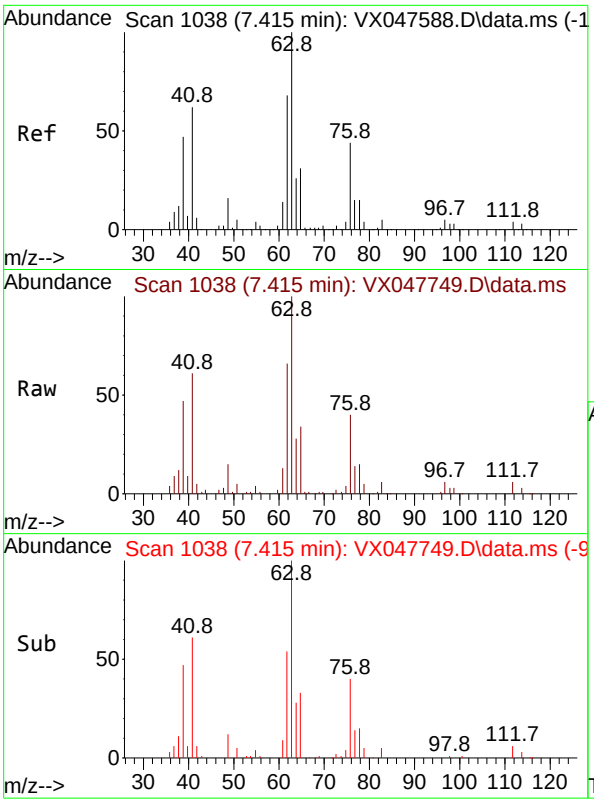


#44
Trichloroethene
Concen: 17.881 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:130 Resp: 36283

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	210.8



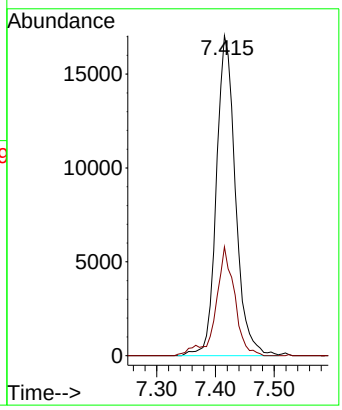


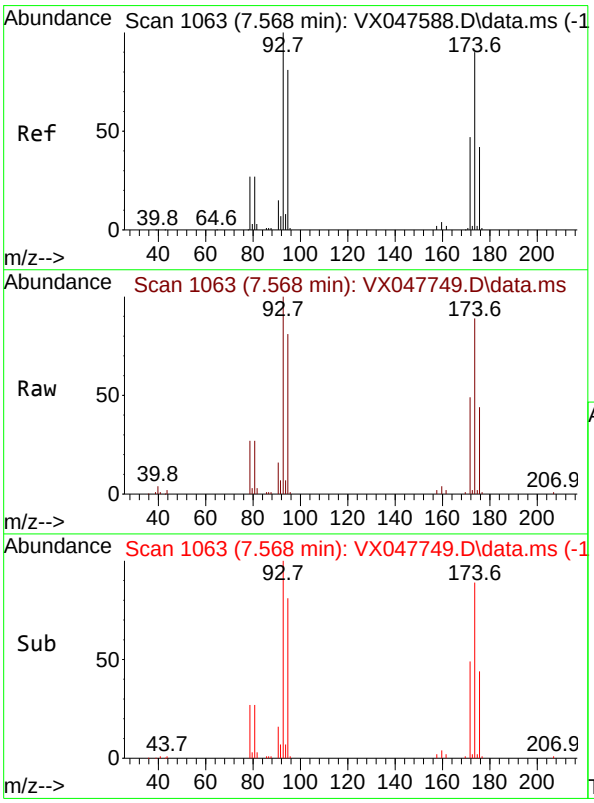
#45
1,2-Dichloropropane
Concen: 17.893 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 63 Resp: 38455

Ion	Ratio	Lower	Upper
63	100		
65	34.0	24.7	37.1

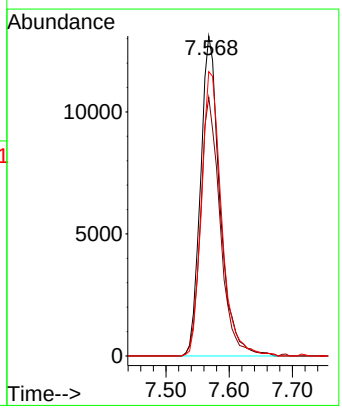


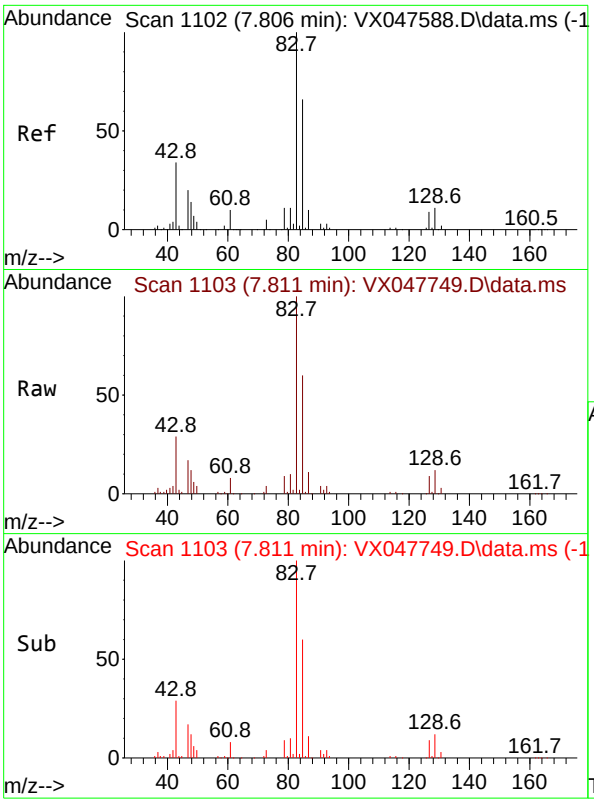


#46
Dibromomethane
Concen: 17.924 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 93 Resp: 28033

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.0	97.6
174	91.4	71.6	107.4



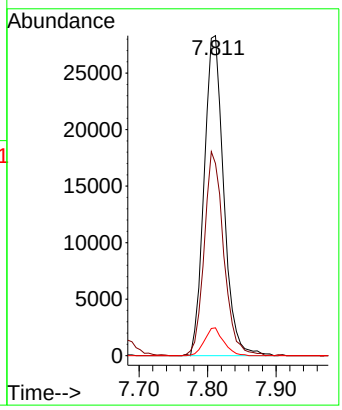


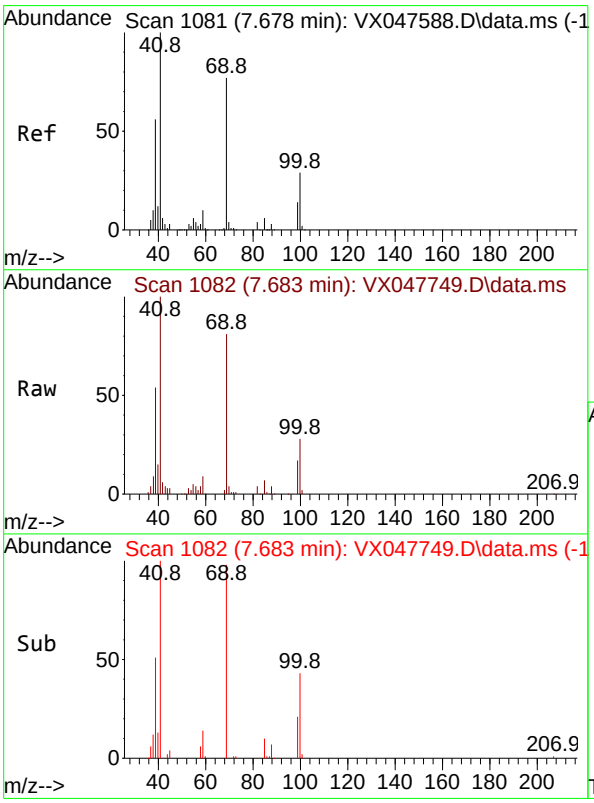
#47
Bromodichloromethane
Concen: 17.468 ug/l
RT: 7.811 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 83 Resp: 56375

Ion	Ratio	Lower	Upper
83	100		
85	60.0	52.5	78.7
127	8.7	6.9	10.3

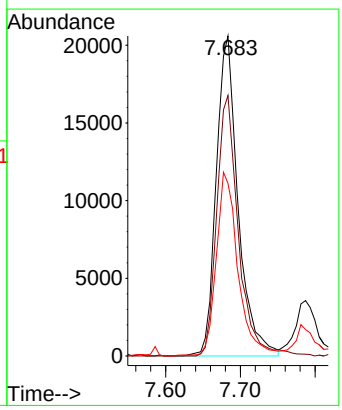


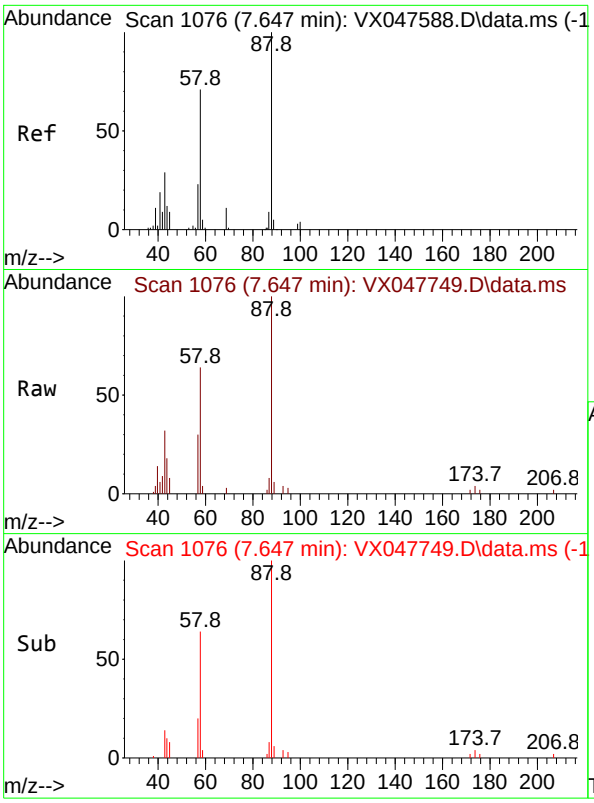


#48
Methyl methacrylate
Concen: 17.332 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 41 Resp: 41895

Ion	Ratio	Lower	Upper
41	100		
69	80.7	61.4	92.2
39	57.0	45.8	68.6



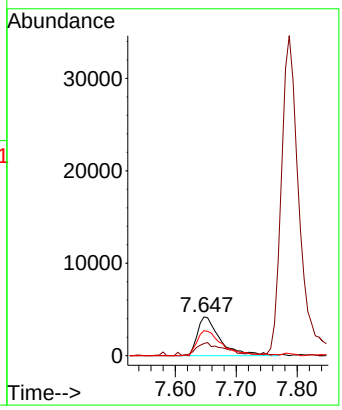


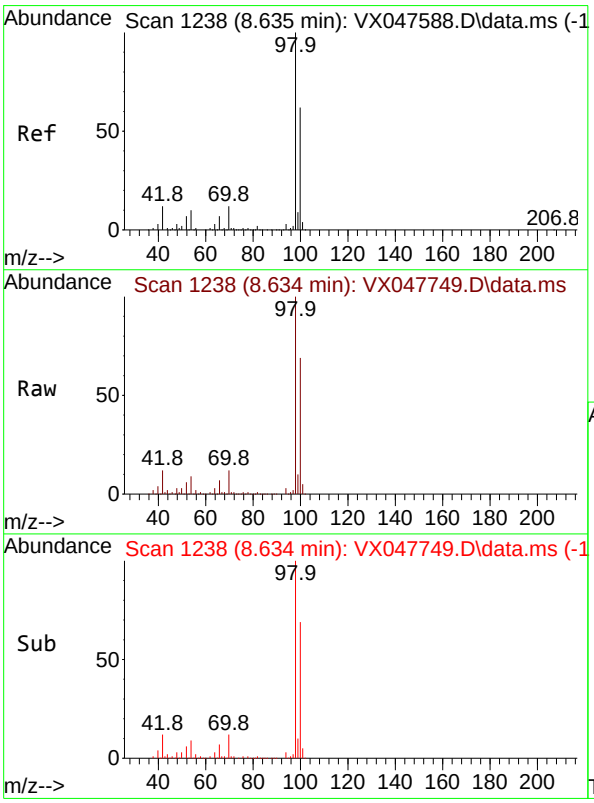
#49
1,4-Dioxane
Concen: 446.778 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 88 Resp: 10914

Ion	Ratio	Lower	Upper
88	100		
43	37.5	30.2	45.2
58	69.7	59.5	89.3

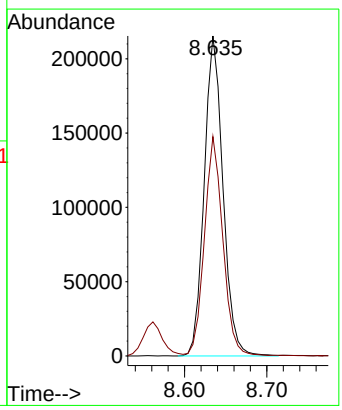


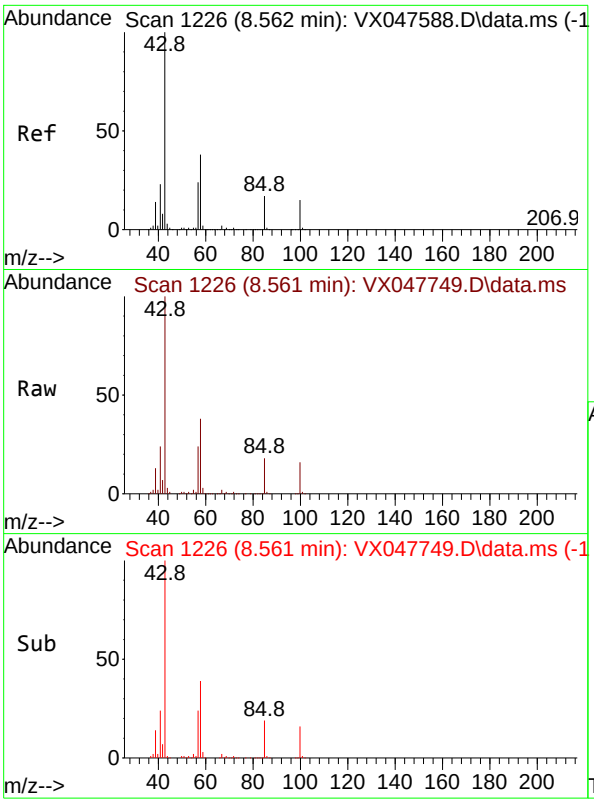


#50
Toluene-d8
Concen: 52.151 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 98 Resp: 341263

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4



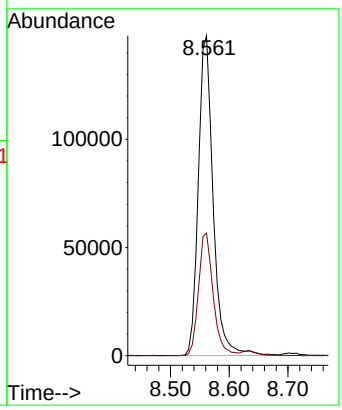


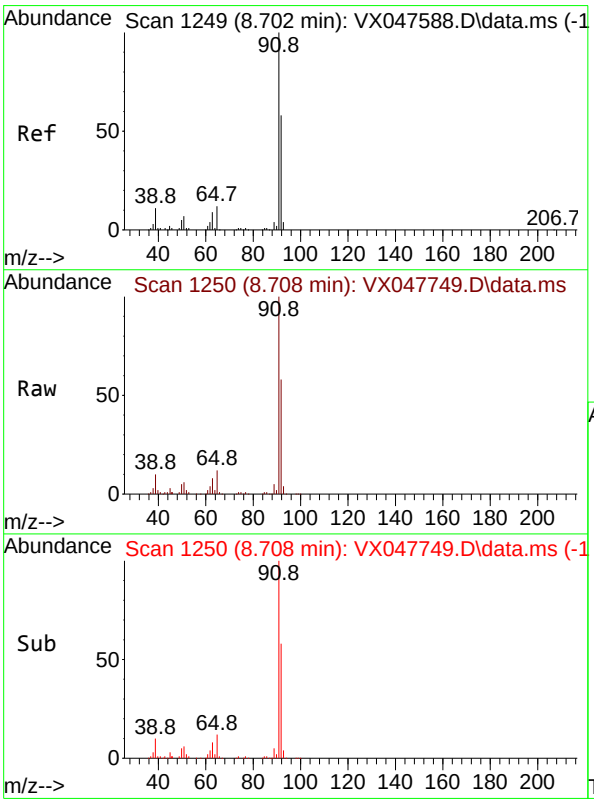
#51
4-Methyl-2-Pentanone
Concen: 96.387 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 43 Resp: 259334

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

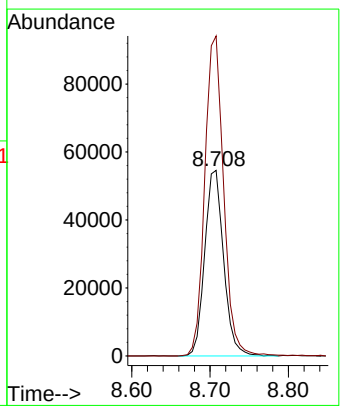


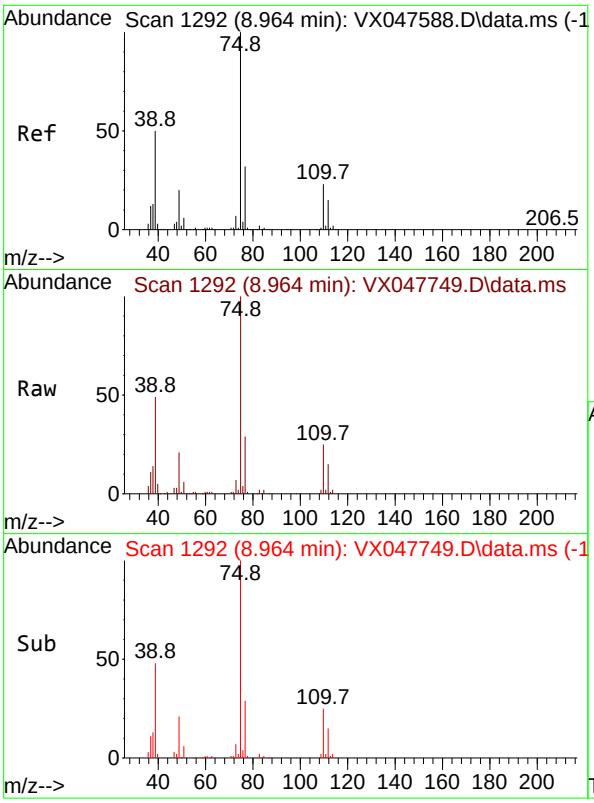


#52
Toluene
Concen: 17.679 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 92 Resp: 91422

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.1	205.7



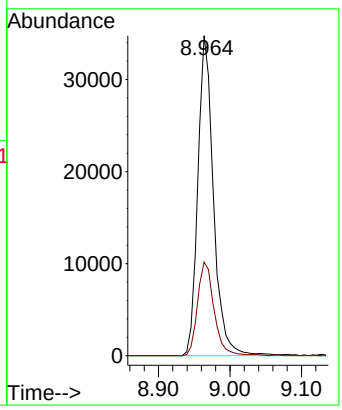


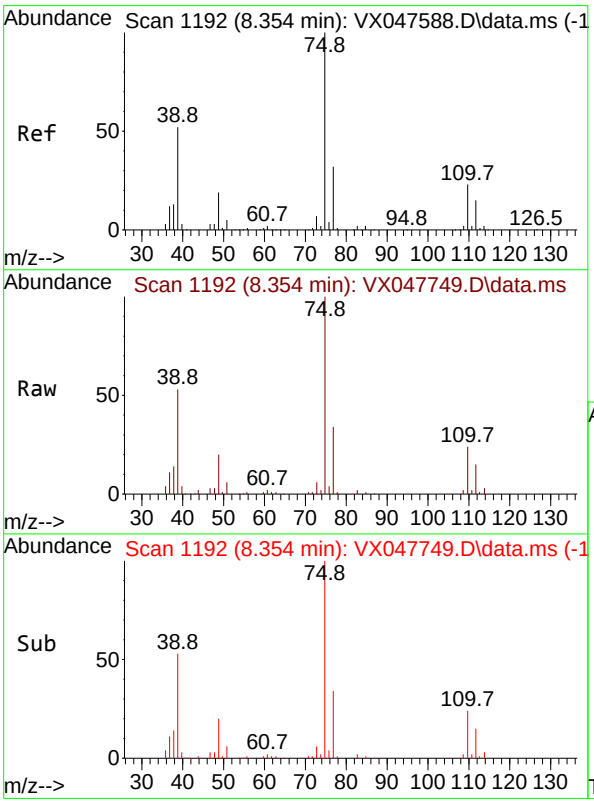
#53
t-1,3-Dichloropropene
Concen: 16.036 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 75 Resp: 52789

Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.4	38.2

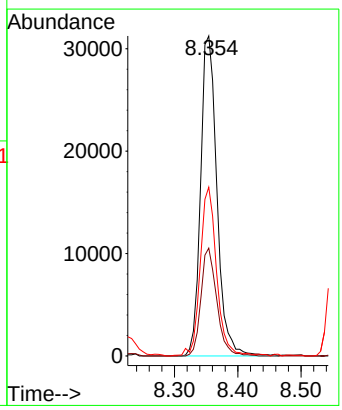


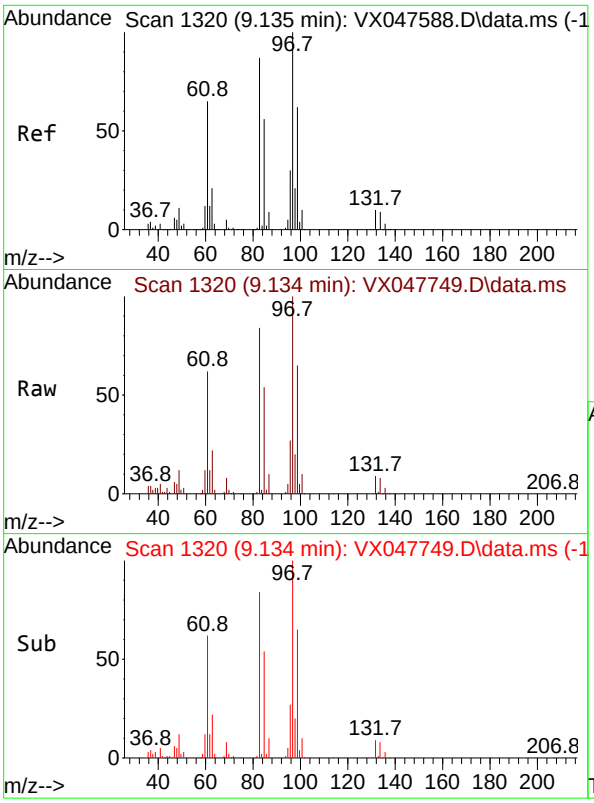


#54
cis-1,3-Dichloropropene
Concen: 16.020 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 56367

Ion	Ratio	Lower	Upper
75	100		
77	33.7	25.8	38.6
39	50.7	41.4	62.2



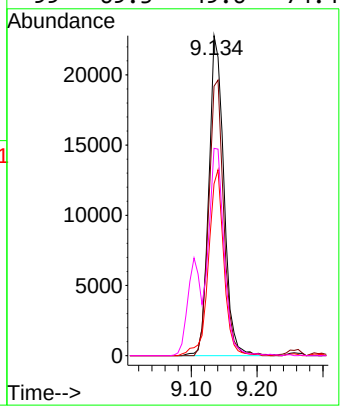


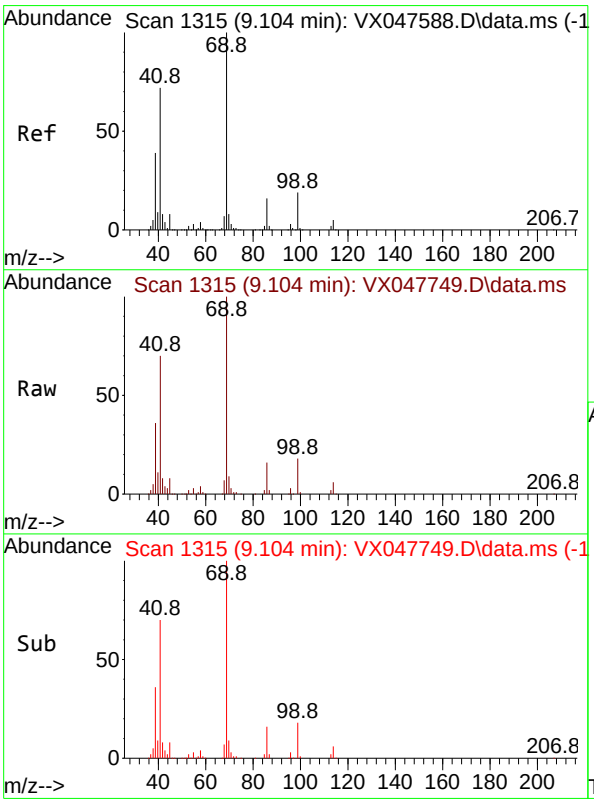
#55
1,1,2-Trichloroethane
Concen: 18.240 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 97 Resp: 36370

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.7	45.0	67.6
99	69.3	49.6	74.4

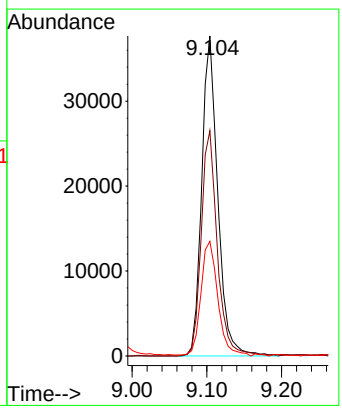


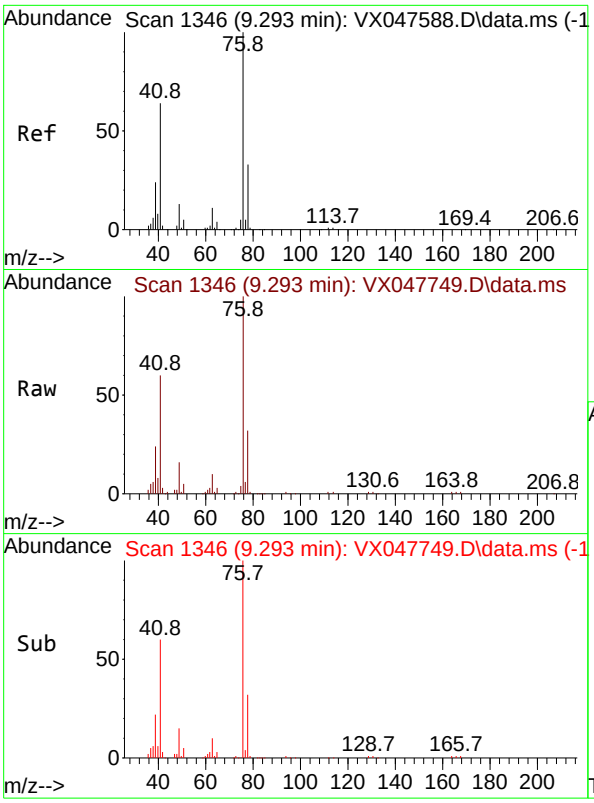


#56
Ethyl methacrylate
Concen: 17.924 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 69 Resp: 56127

Ion	Ratio	Lower	Upper
69	100		
41	70.7	58.6	87.8
39	38.0	31.5	47.3



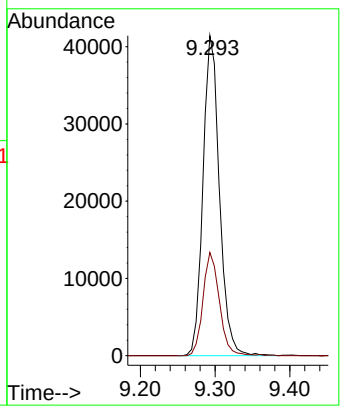


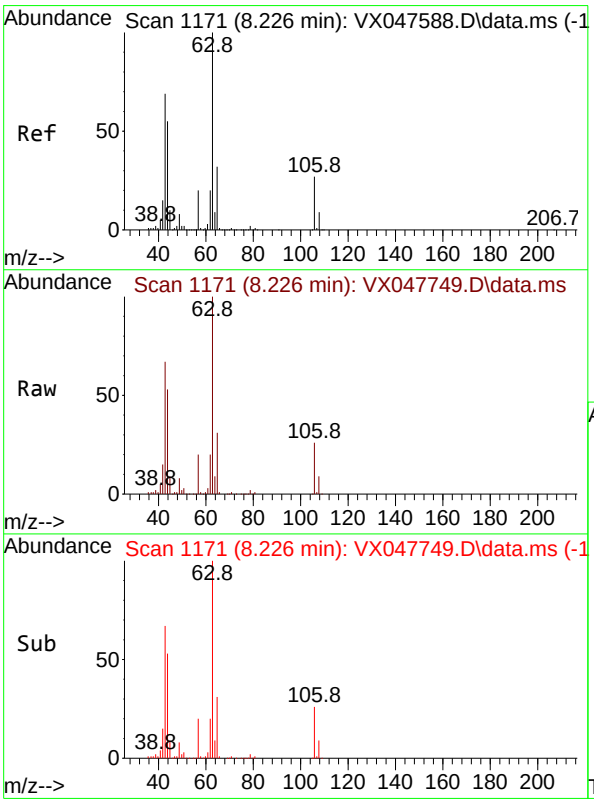
#57
1,3-Dichloropropane
Concen: 18.497 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 76 Resp: 63358

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4

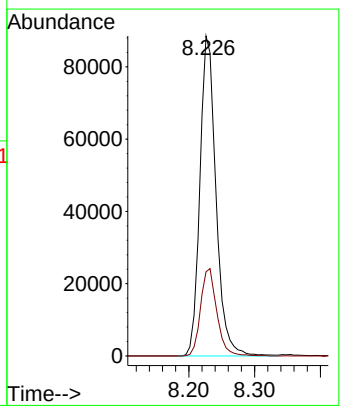


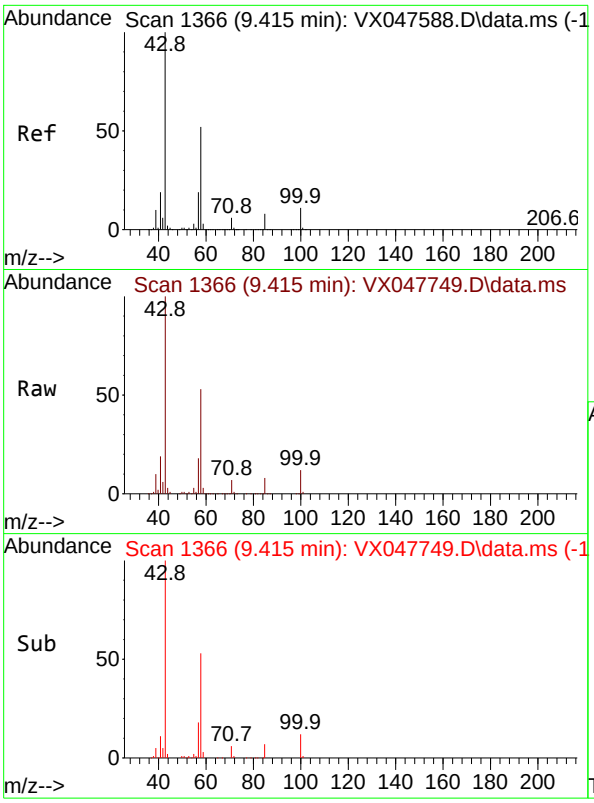


#58
2-Chloroethyl Vinyl ether
Concen: 107.686 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 63 Resp: 150794

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



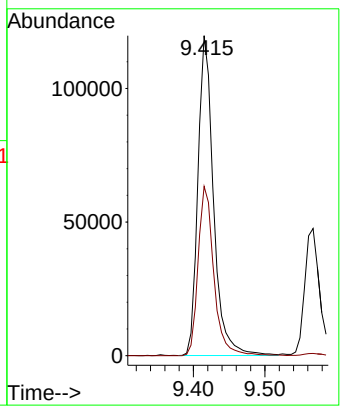


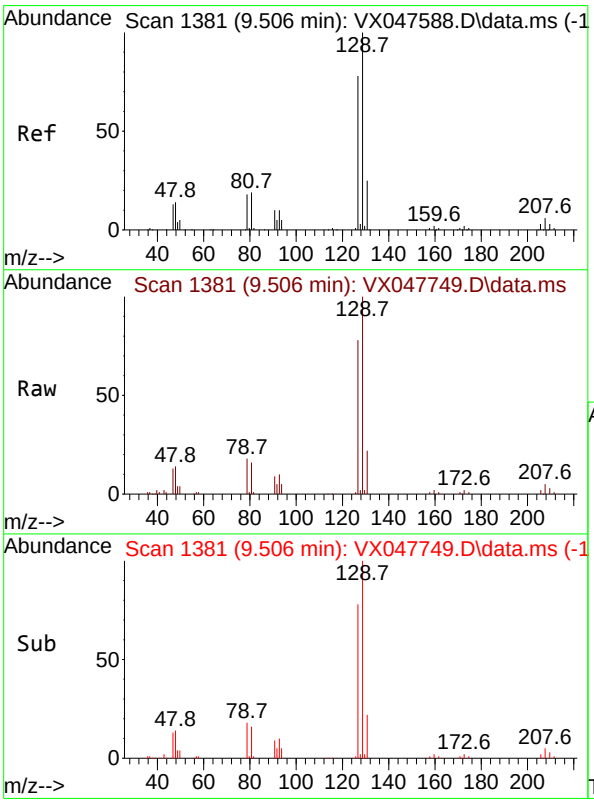
#59
2-Hexanone
Concen: 93.973 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 43 Resp: 181591

Ion	Ratio	Lower	Upper
43	100		
58	53.5	26.1	78.2

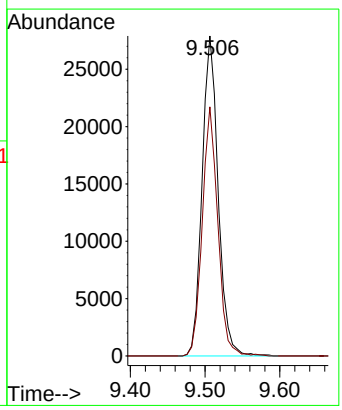


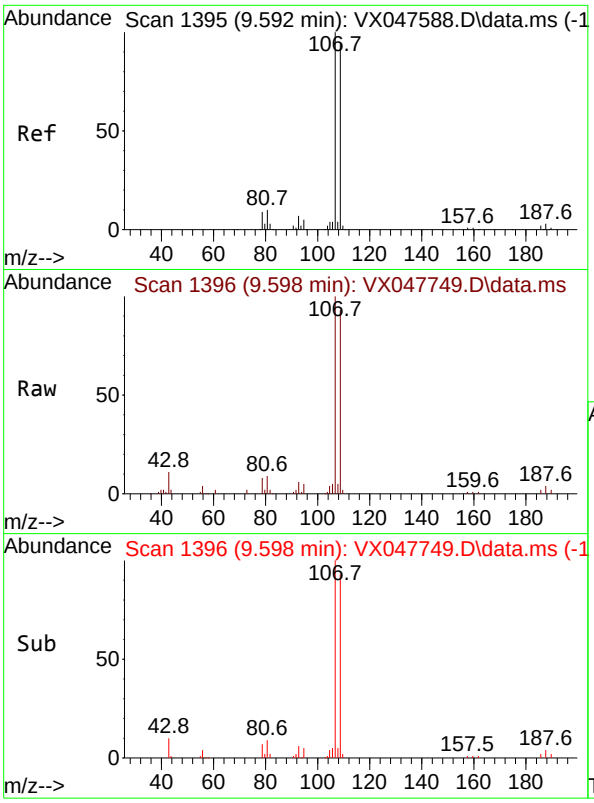


#60
Dibromochloromethane
Concen: 18.125 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:129 Resp: 41641

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.4	115.2



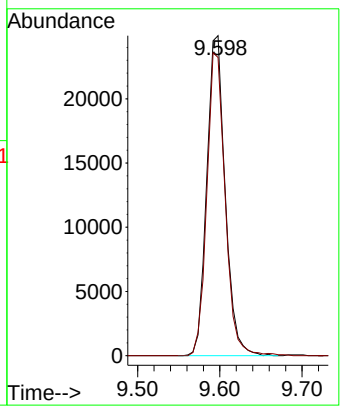


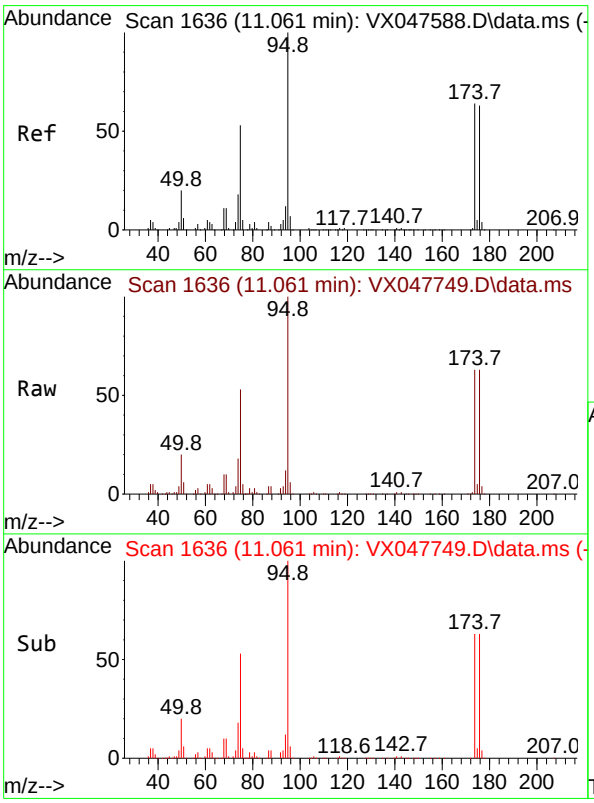
#61
1,2-Dibromoethane
Concen: 19.067 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:107 Resp: 38724

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.3	112.9

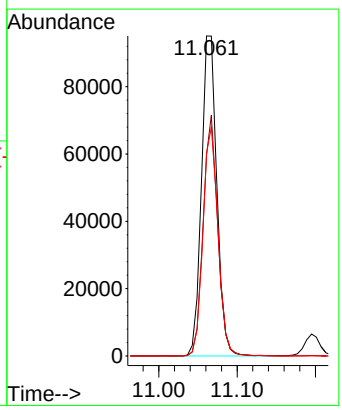


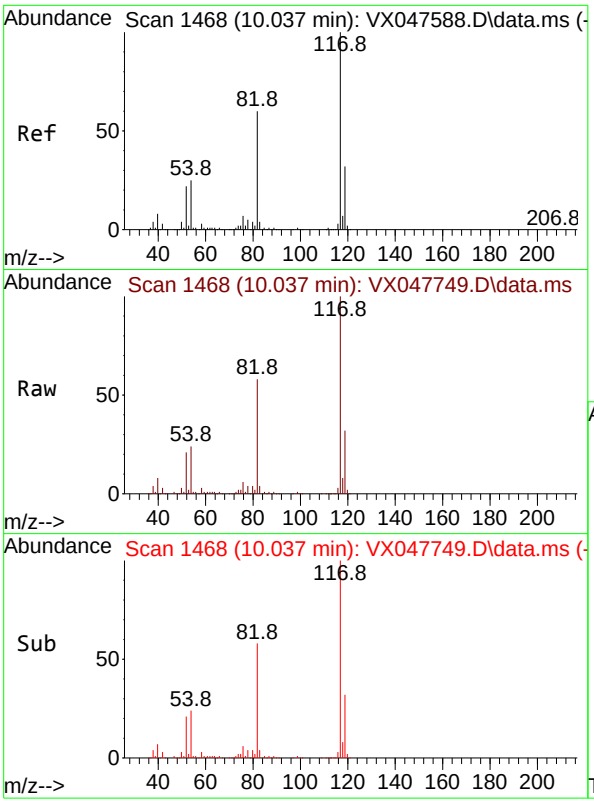


#62
4-Bromofluorobenzene
Concen: 52.114 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 95 Resp: 129425

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.6
176	69.8	0.0	138.4



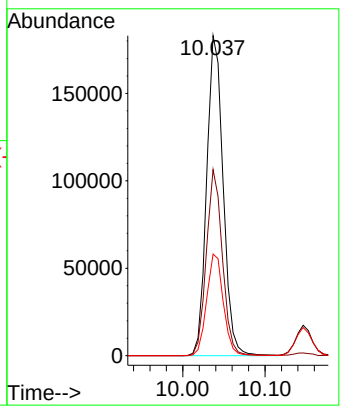


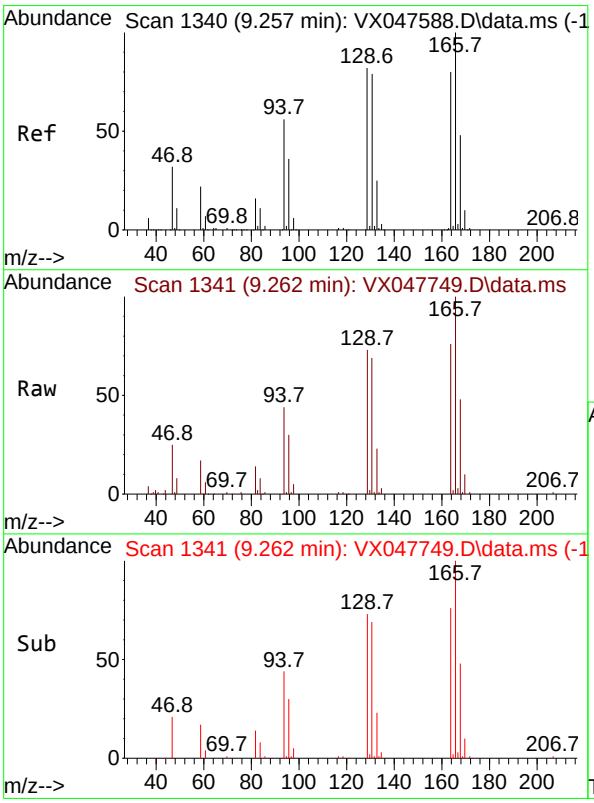
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:117 Resp: 254297

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	31.7	25.2	37.8

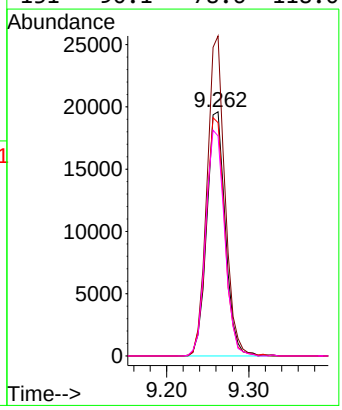


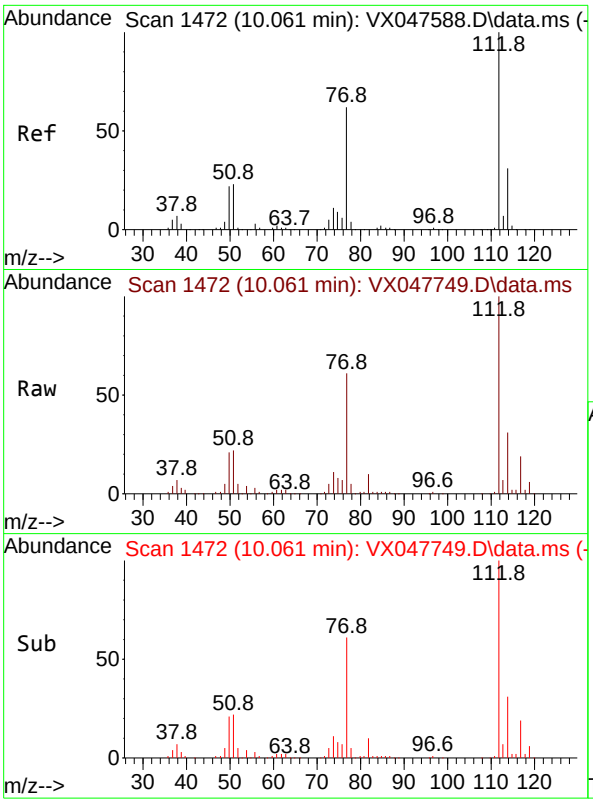


#64
Tetrachloroethene
Concen: 18.494 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:164 Resp: 30658

Ion	Ratio	Lower	Upper
164	100		
166	131.1	100.2	150.2
129	95.6	81.8	122.6
131	90.1	78.6	118.0



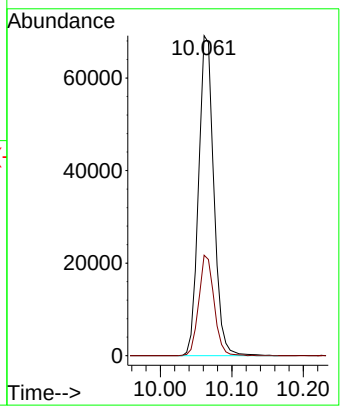


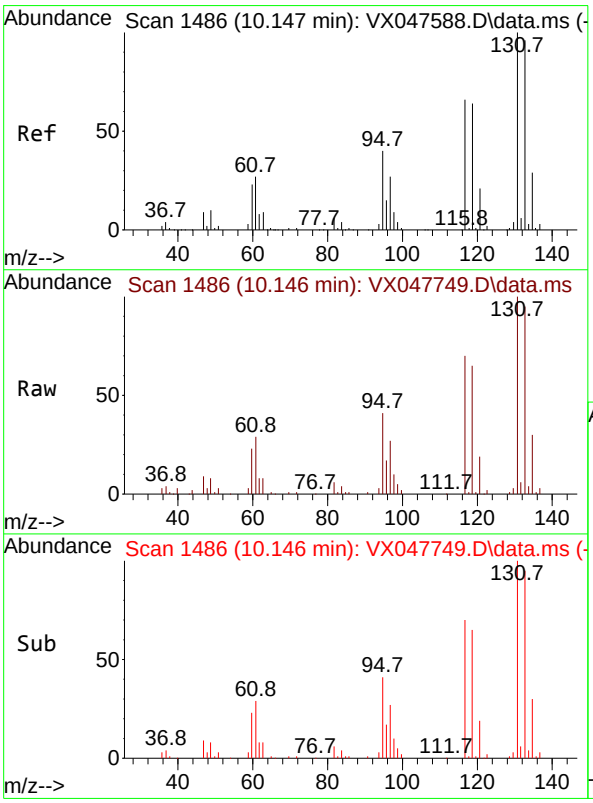
#65
Chlorobenzene
Concen: 17.689 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:112 Resp: 102193

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

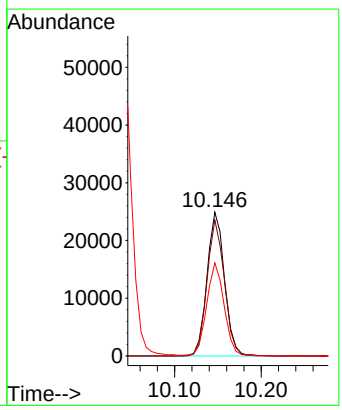


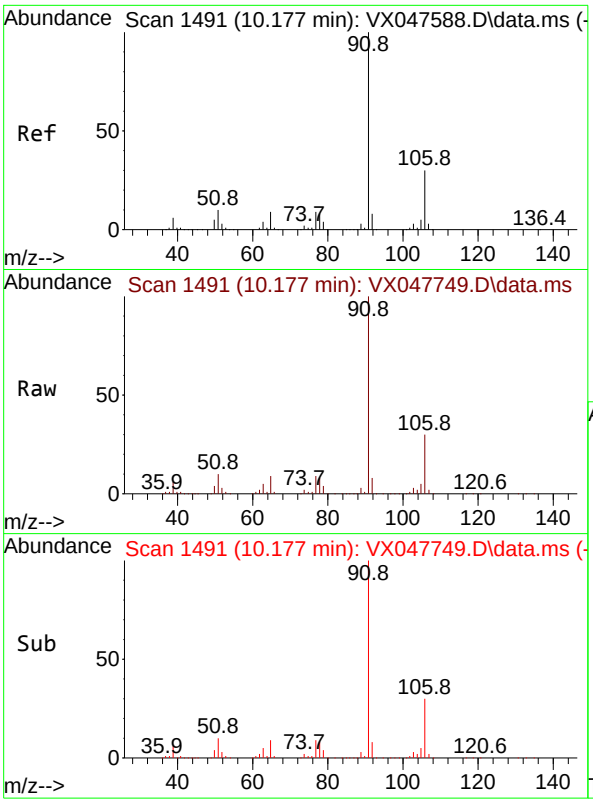


#66
1,1,1,2-Tetrachloroethane
Concen: 17.500 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:131 Resp: 34887

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	64.9	32.0	96.0



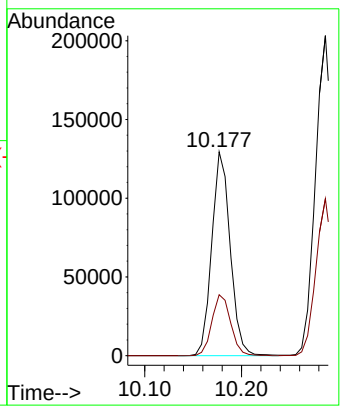


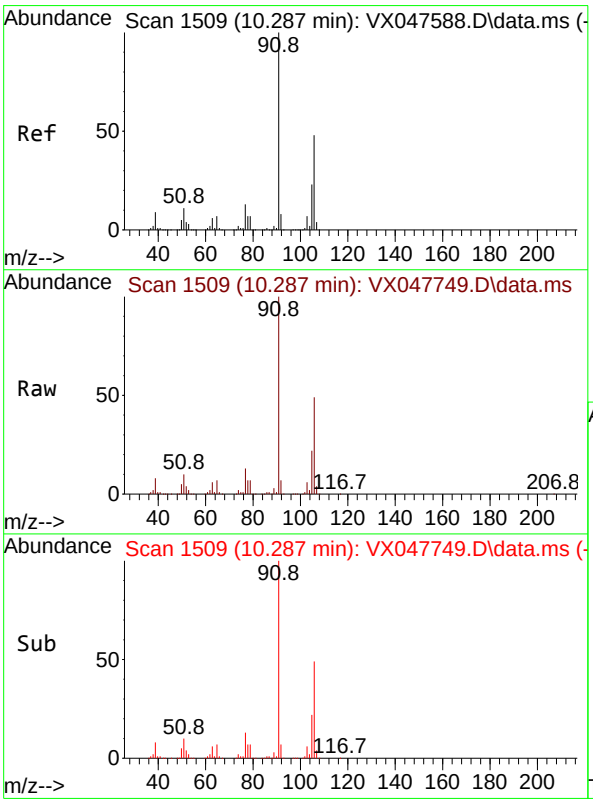
#67
Ethyl Benzene
Concen: 17.180 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 91 Resp: 171255

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.3	36.5

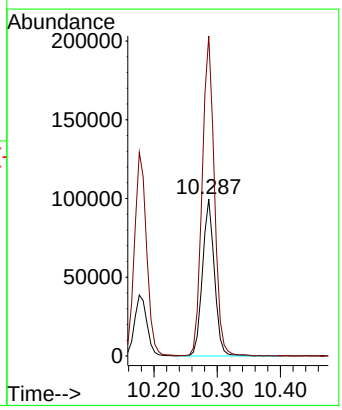


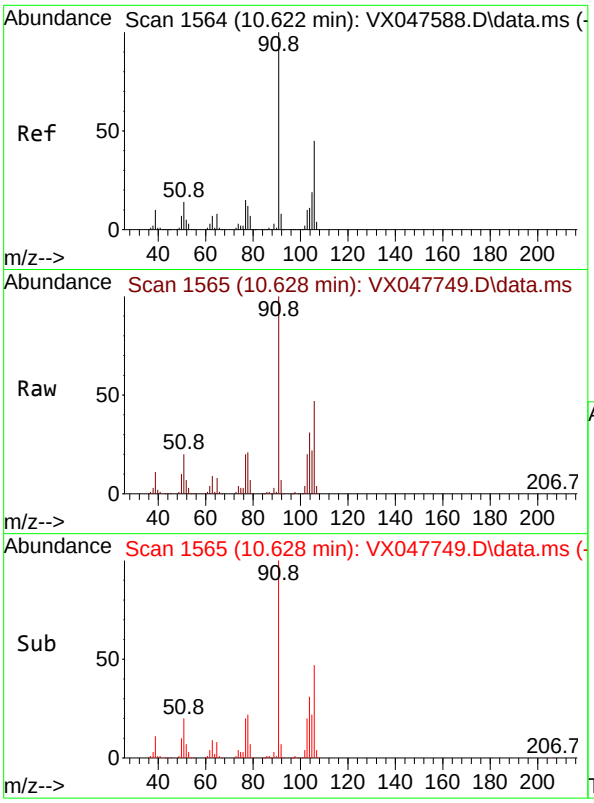


#68
m/p-Xylenes
Concen: 35.307 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:106 Resp: 130995

Ion	Ratio	Lower	Upper
106	100		
91	208.4	167.8	251.8



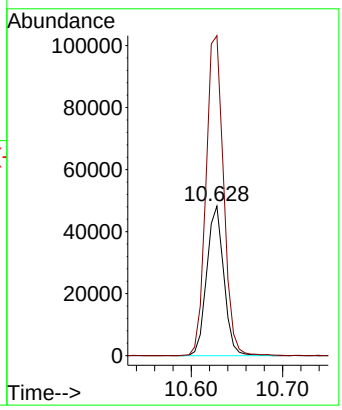


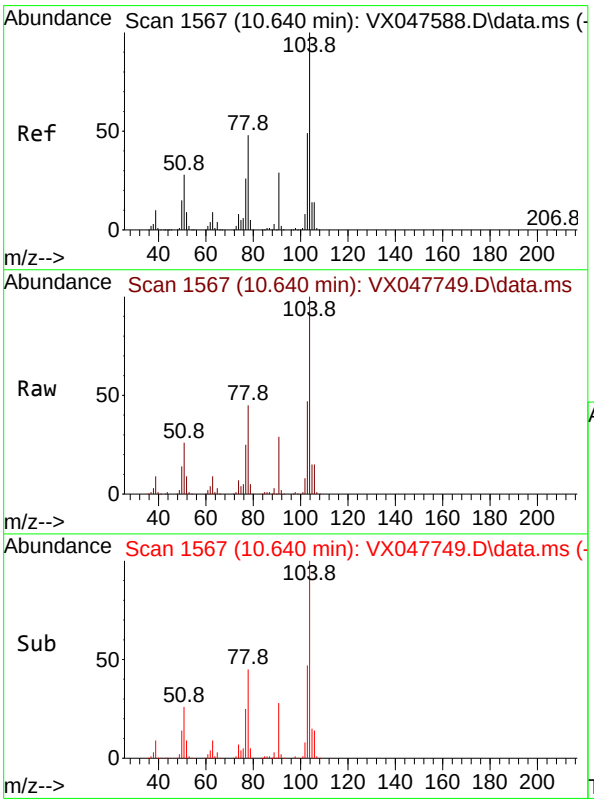
#69
o-Xylene
Concen: 17.473 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:106 Resp: 62705

Ion	Ratio	Lower	Upper
106	100		
91	220.5	111.1	333.4

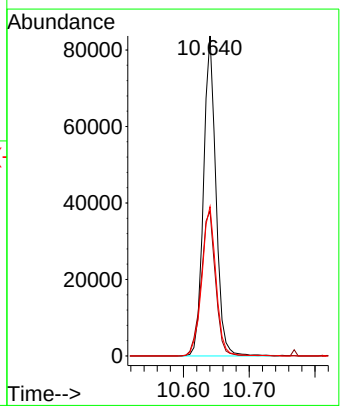


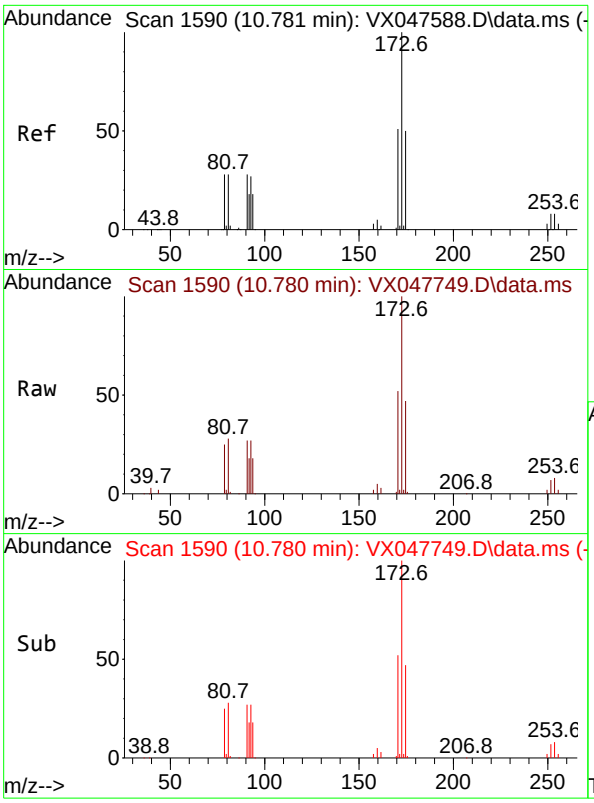


#70
Styrene
Concen: 17.497 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:104 Resp: 110018

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	52.9	43.1	64.7



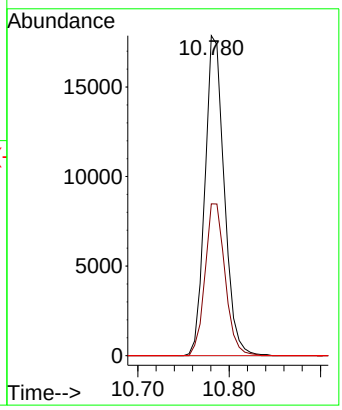


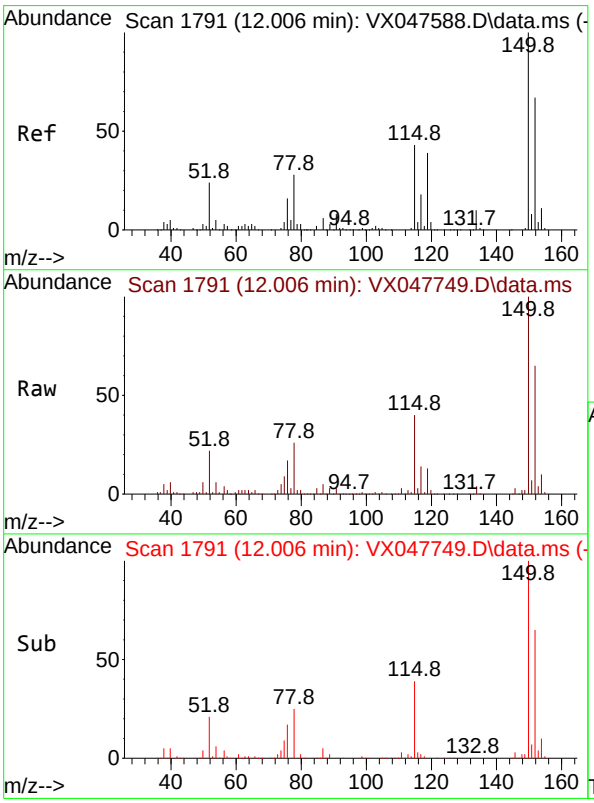
#71
Bromoform
Concen: 17.505 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:173 Resp: 26057

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1#

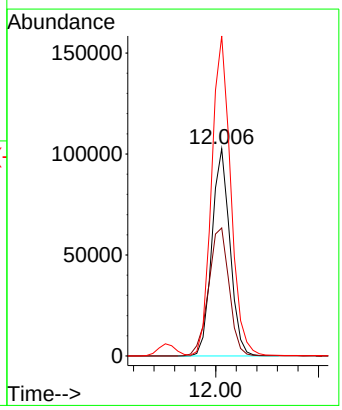


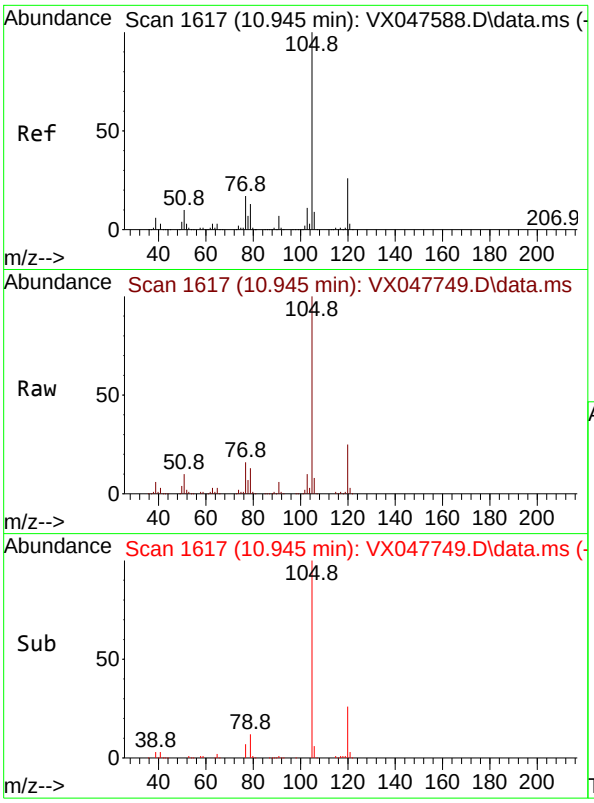


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:152 Resp: 124629

Ion	Ratio	Lower	Upper
152	100		
115	70.5	44.9	134.5
150	163.6	0.0	352.0



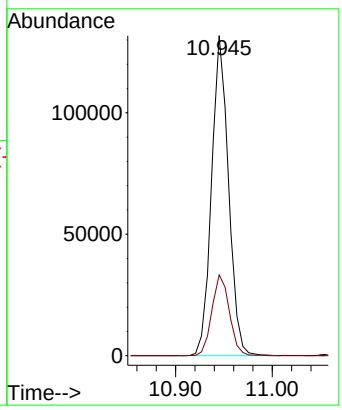


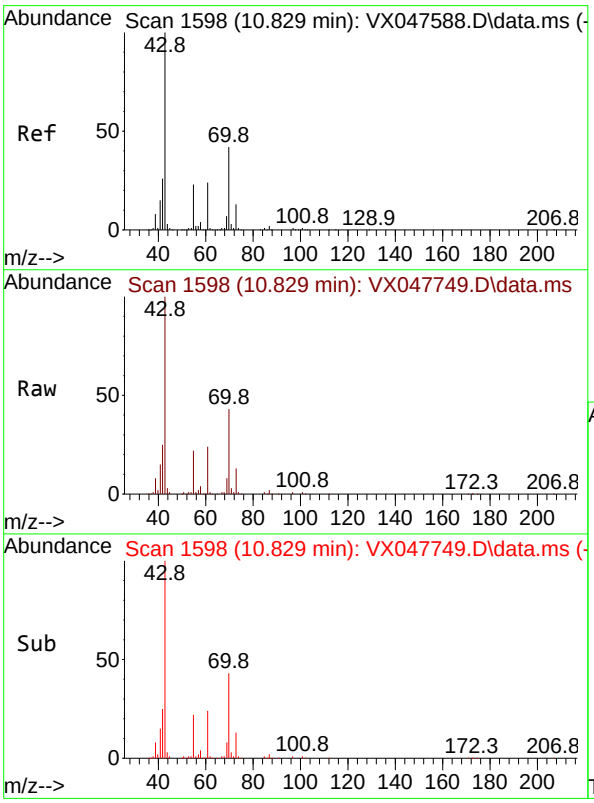
#73
Isopropylbenzene
Concen: 16.911 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:105 Resp: 160236

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

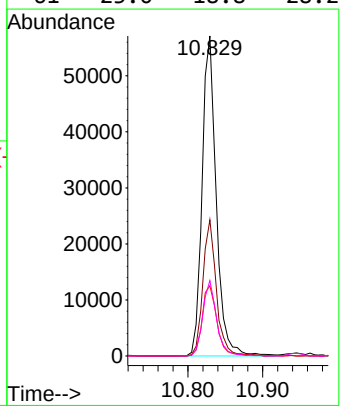


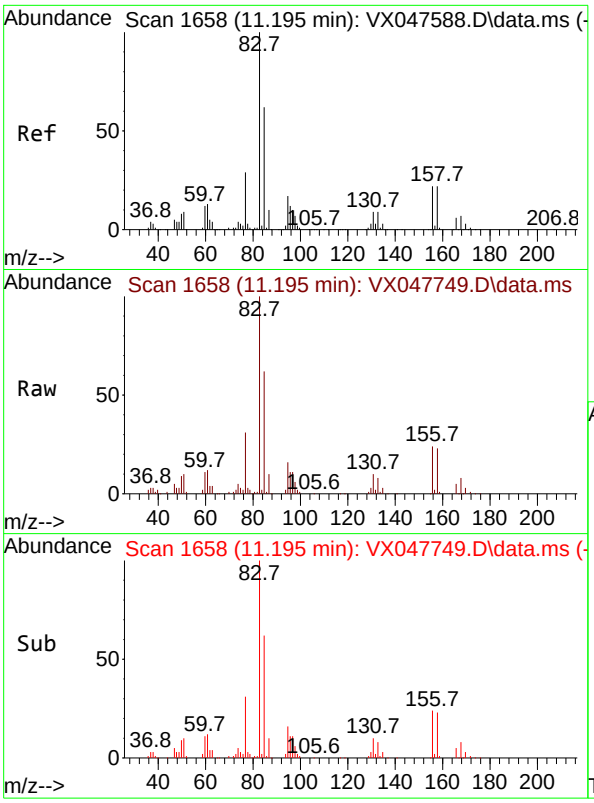


#74
N-amyl acetate
Concen: 17.343 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 43 Resp: 74935

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.0	18.9	28.3
61	23.0	18.8	28.2



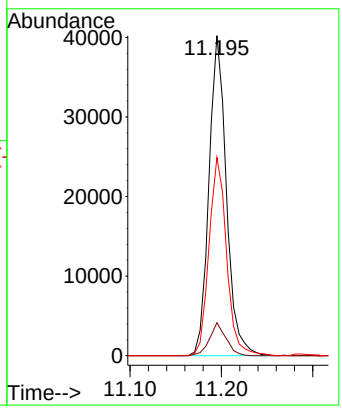


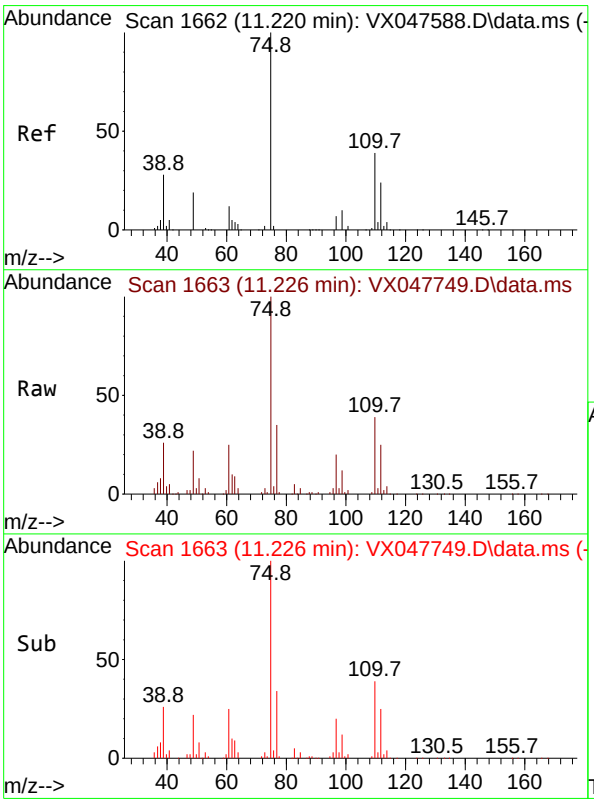
#75
1,1,2,2-Tetrachloroethane
Concen: 18.541 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 83 Resp: 53151

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	62.5	31.6	95.0

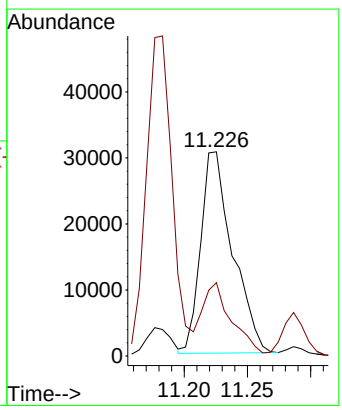


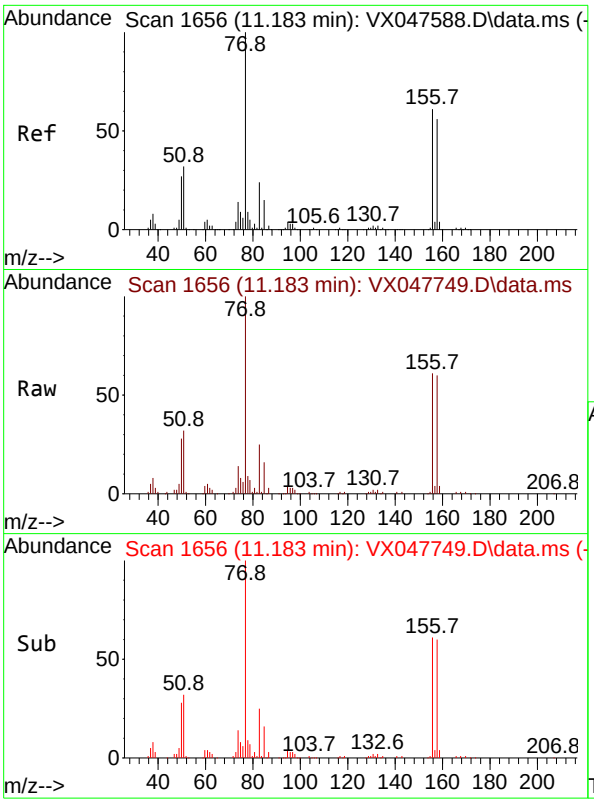


#76
1,2,3-Trichloropropane
Concen: 21.300 ug/l
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 53748

Ion	Ratio	Lower	Upper
75	100		
77	33.1	18.8	56.4



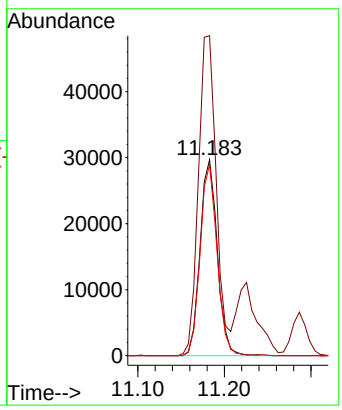


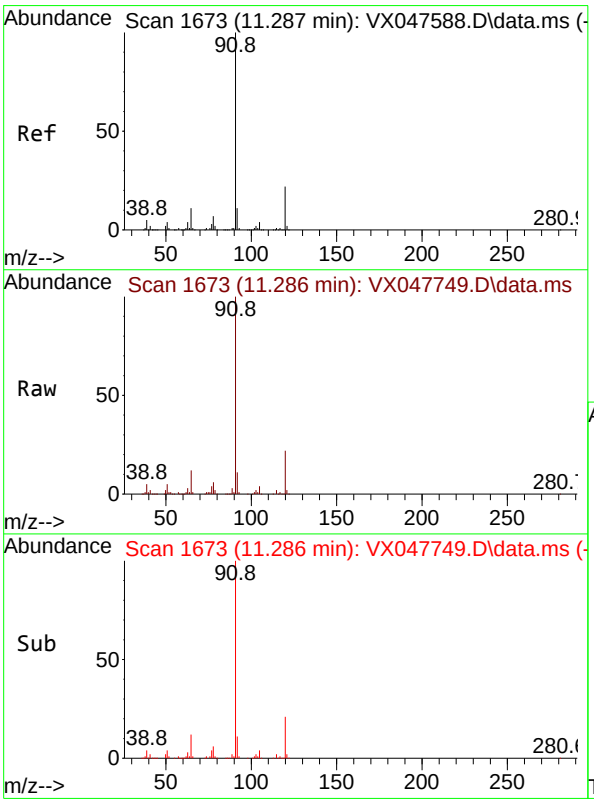
#77
Bromobenzene
Concen: 17.565 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:156 Resp: 40990

Ion	Ratio	Lower	Upper
156	100		
77	170.3	89.7	269.1
158	95.6	47.9	143.6

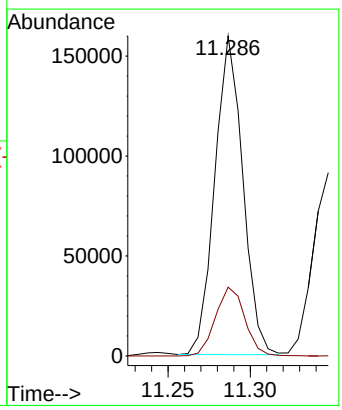


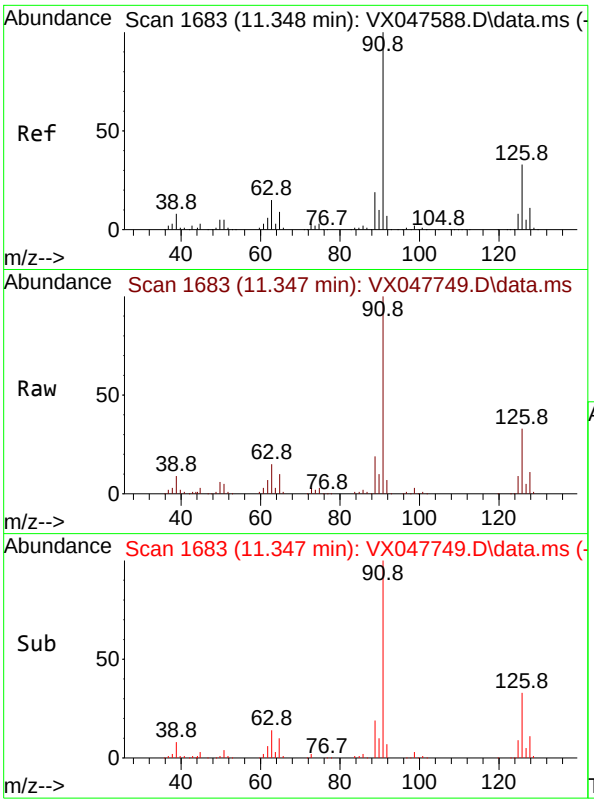


#78
n-propylbenzene
Concen: 16.859 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 91 Resp: 188833

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.1



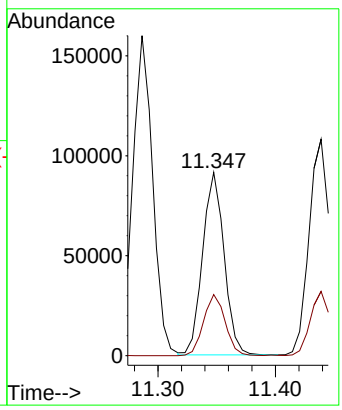


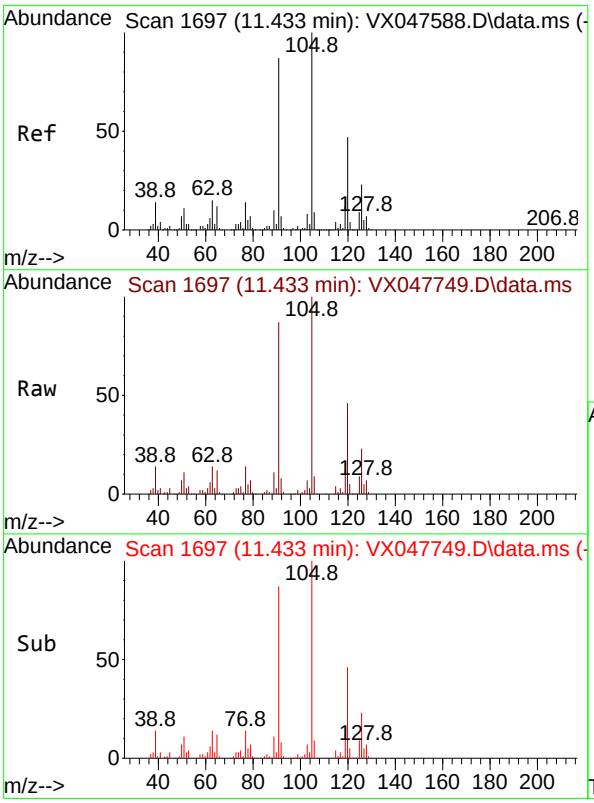
#79
2-Chlorotoluene
Concen: 16.904 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 91 Resp: 115965

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.1	48.3

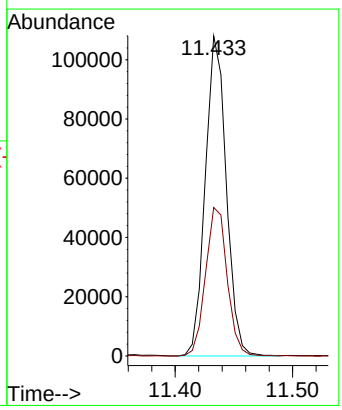


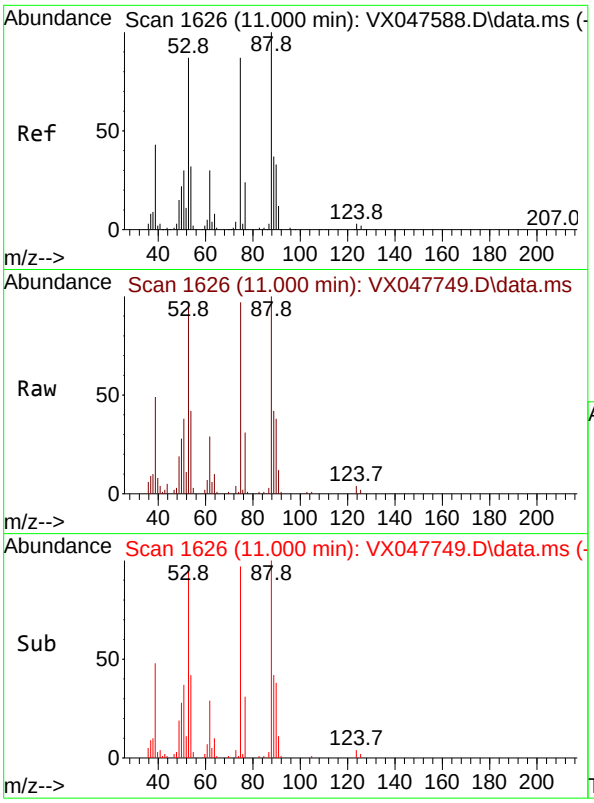


#80
1,3,5-Trimethylbenzene
Concen: 17.201 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:105 Resp: 133906

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.6	70.8



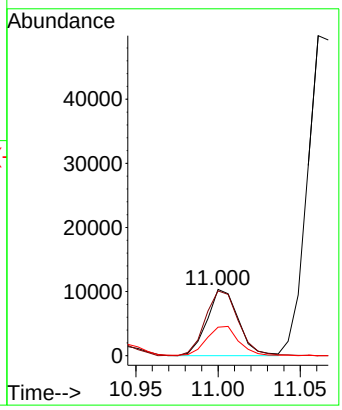


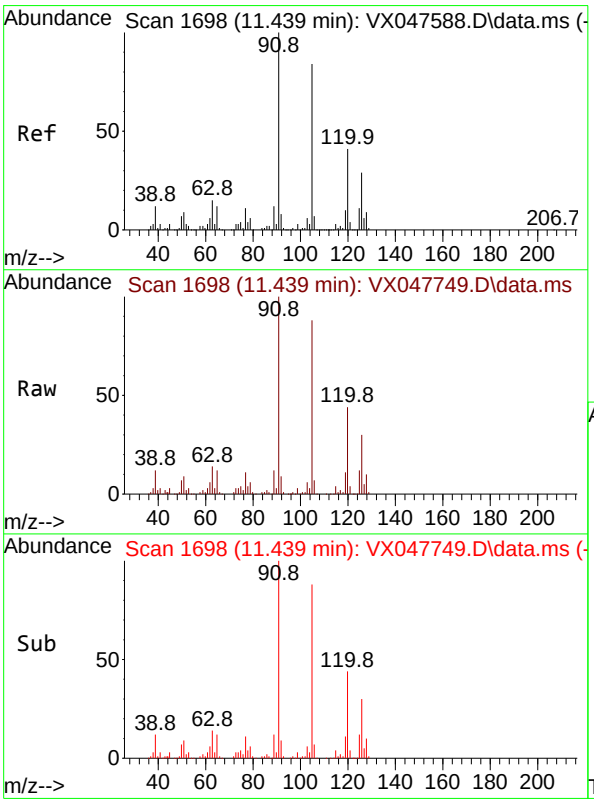
#81
trans-1,4-Dichloro-2-butene
Concen: 13.838 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 75 Resp: 13693

Ion	Ratio	Lower	Upper
75	100		
53	103.1	83.4	125.2
89	45.8	36.3	54.5

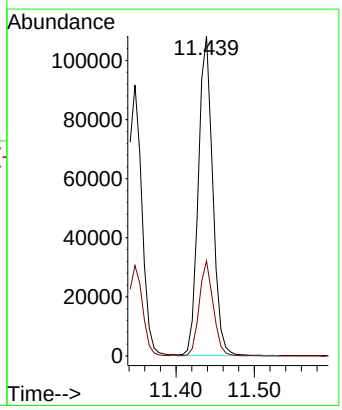


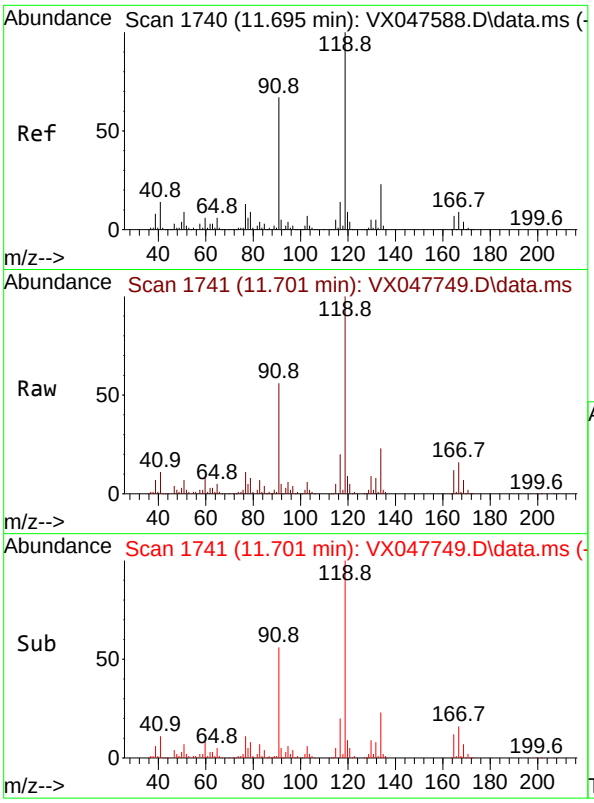


#82
4-Chlorotoluene
Concen: 17.045 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 91 Resp: 138107

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6



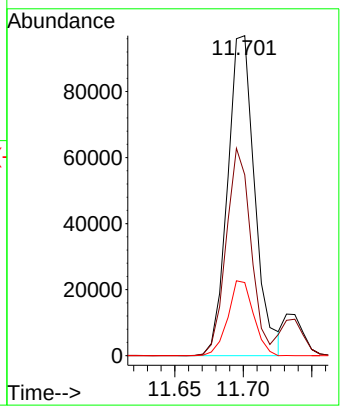


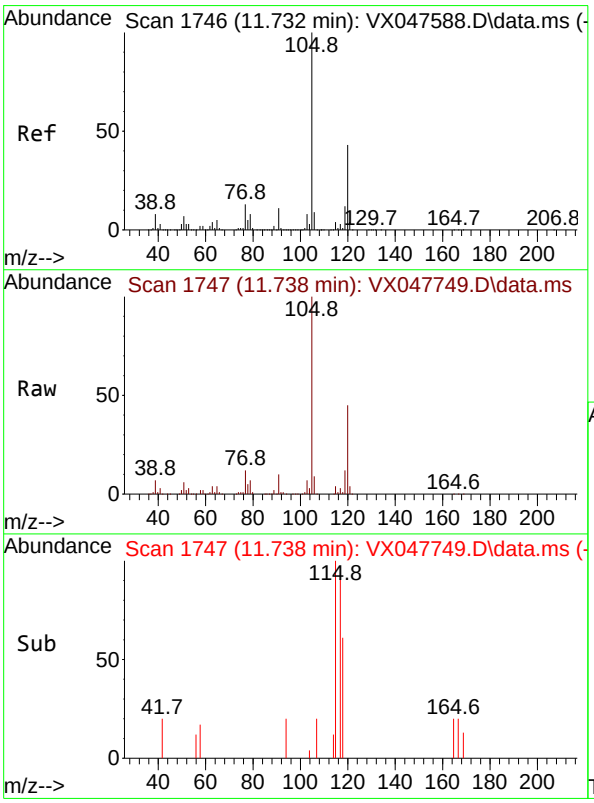
#83
tert-Butylbenzene
Concen: 16.789 ug/l
RT: 11.701 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:119 Resp: 133788

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.2	11.0	33.0

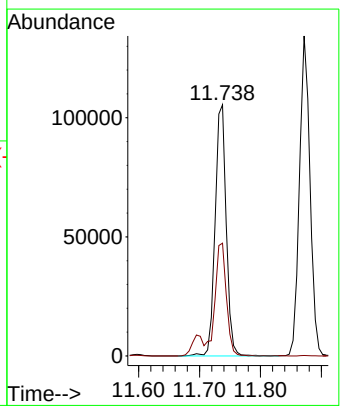


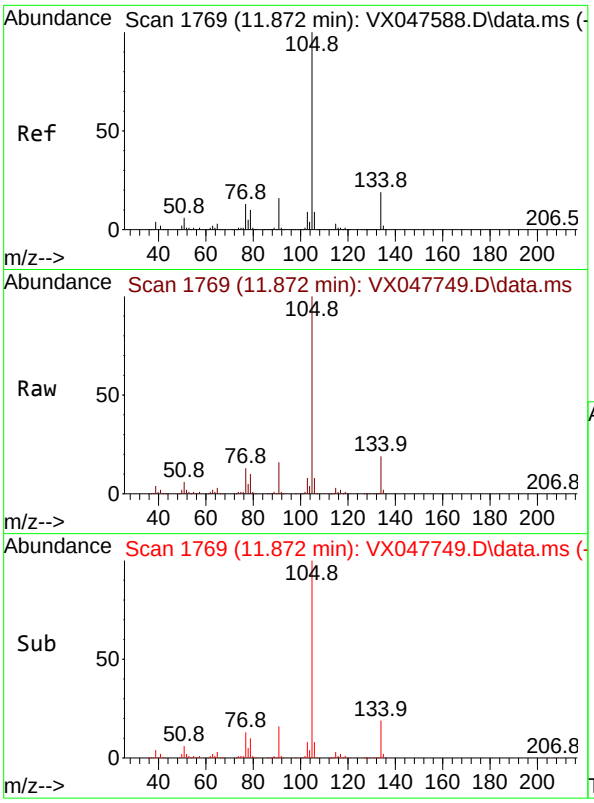


#84
1,2,4-Trimethylbenzene
Concen: 16.931 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:105 Resp: 133626

Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.1	66.1



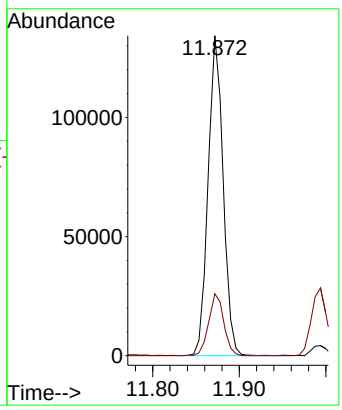


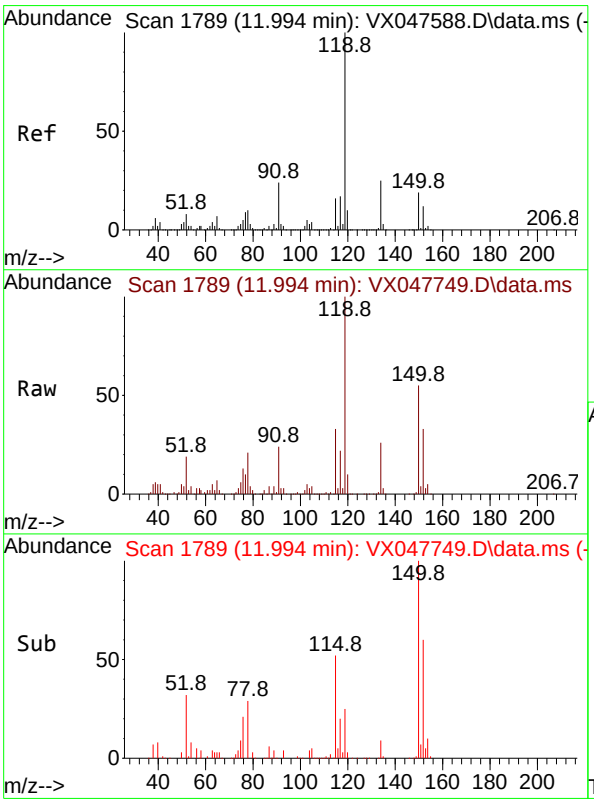
#85
sec-Butylbenzene
Concen: 17.119 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:105 Resp: 162042

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

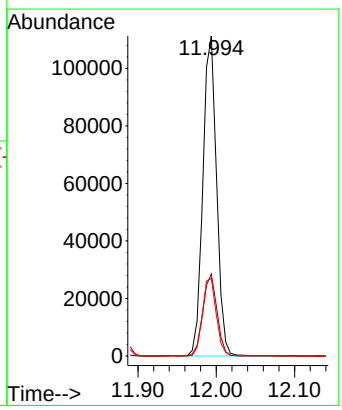


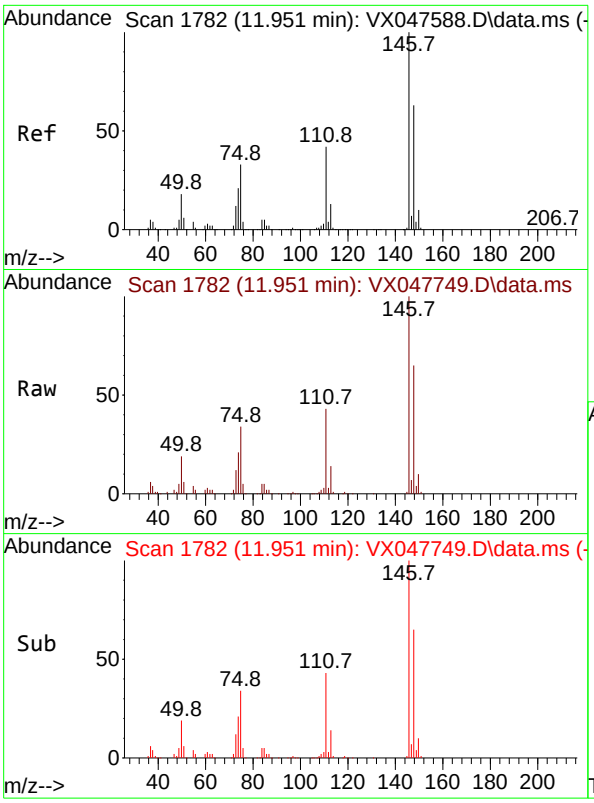


#86
p-Isopropyltoluene
Concen: 16.841 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:119 Resp: 134959

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	25.0	12.6	37.6



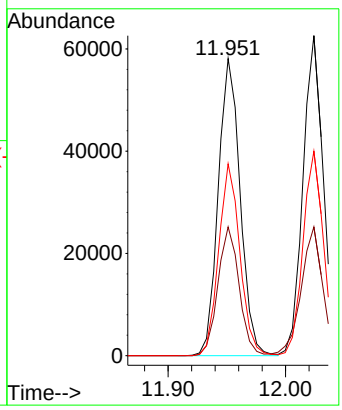


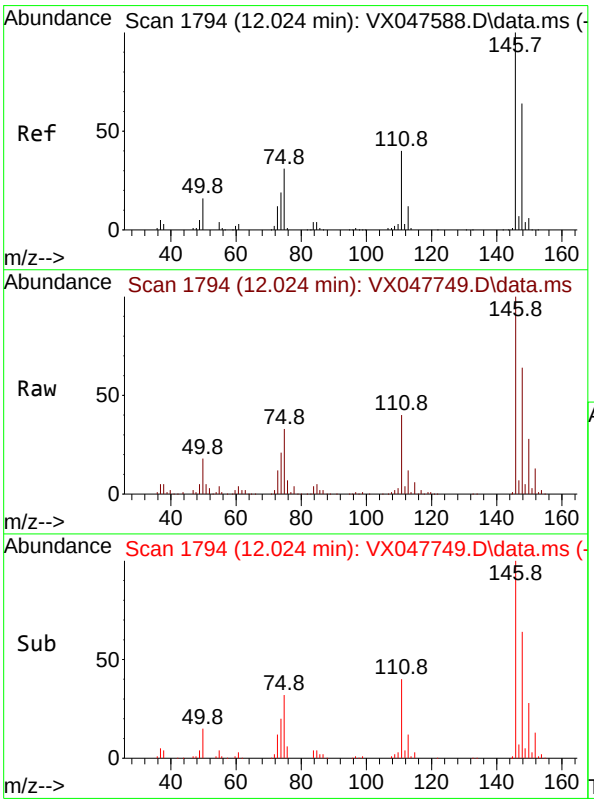
#87
1,3-Dichlorobenzene
Concen: 17.395 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:146 Resp: 75401

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	62.6	32.0	96.0

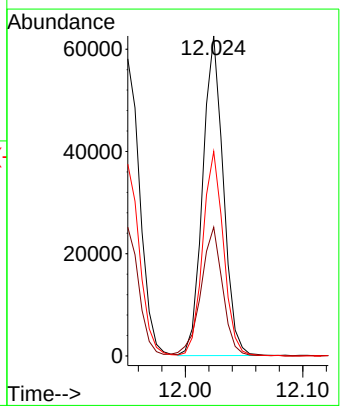


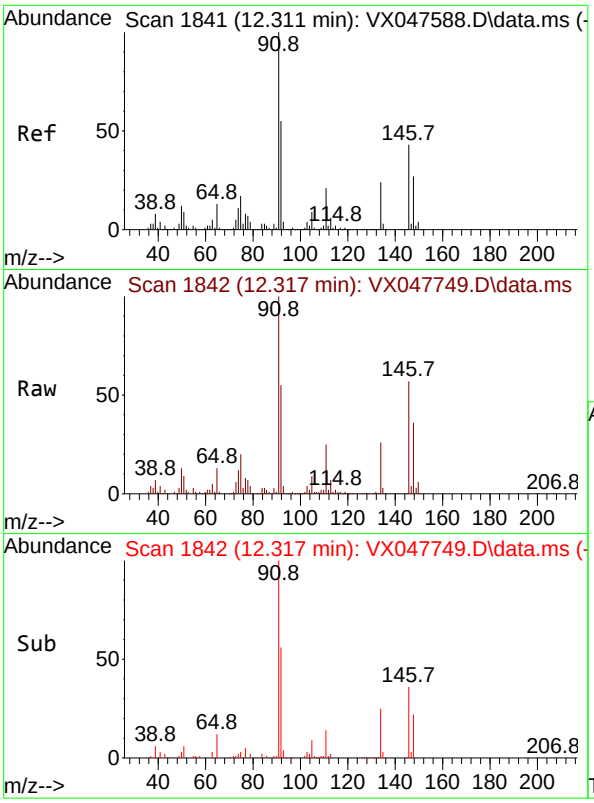


#88
1,4-Dichlorobenzene
Concen: 17.073 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:146 Resp: 75954

Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.8	62.4
148	64.6	31.7	95.1



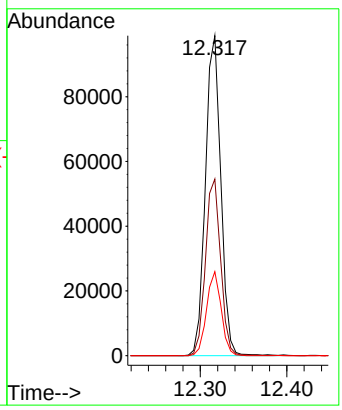


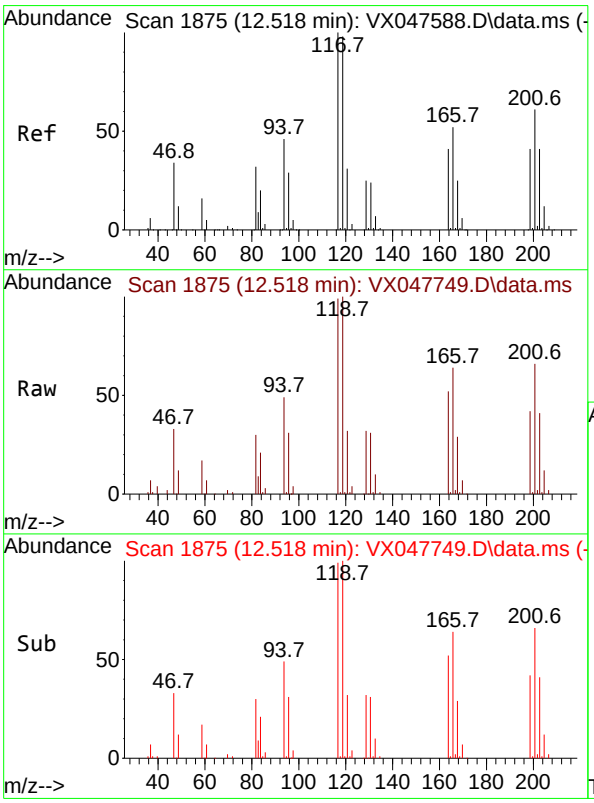
#89
n-Butylbenzene
Concen: 16.446 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion: 91 Resp: 121947

Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.6	82.7
134	25.0	12.6	37.8

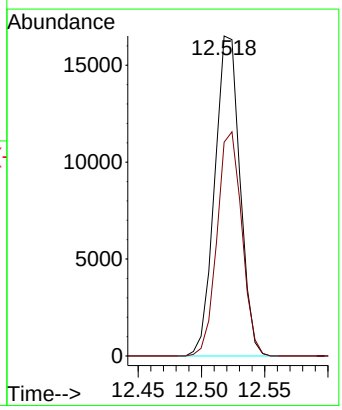


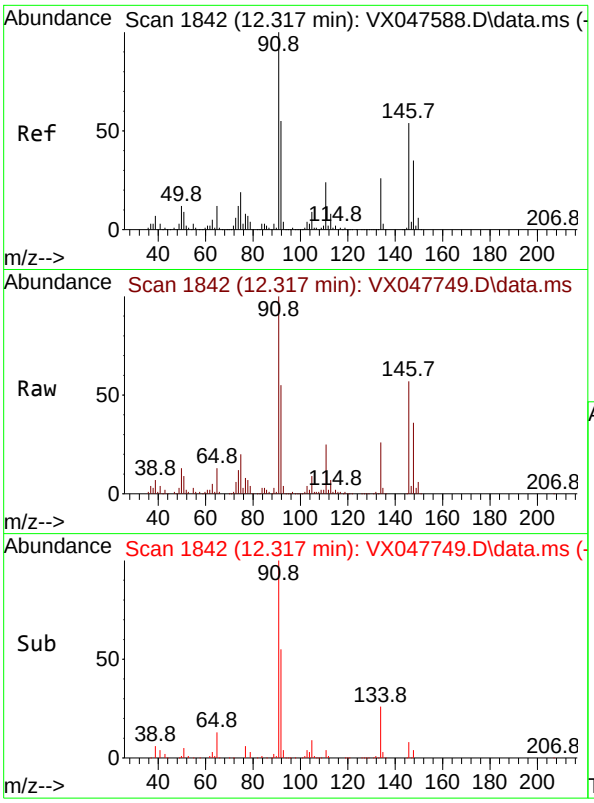


#90
Hexachloroethane
Concen: 16.291 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:117 Resp: 22920

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5



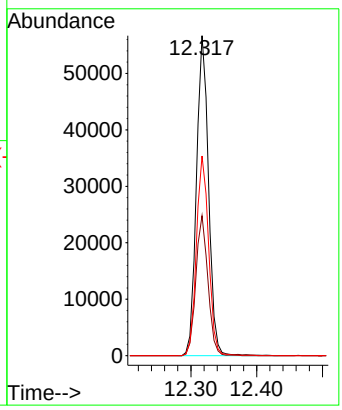


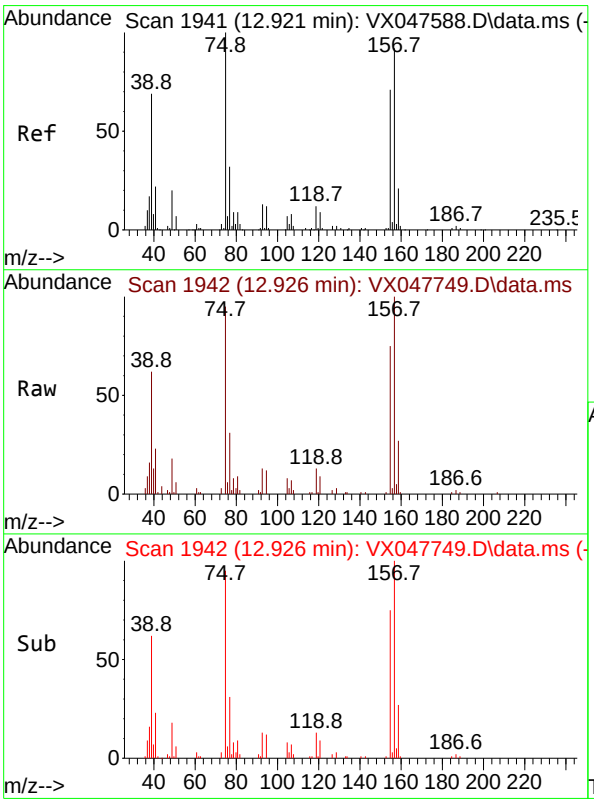
#91
1,2-Dichlorobenzene
Concen: 17.501 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:146 Resp: 72271

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	63.3	31.8	95.4

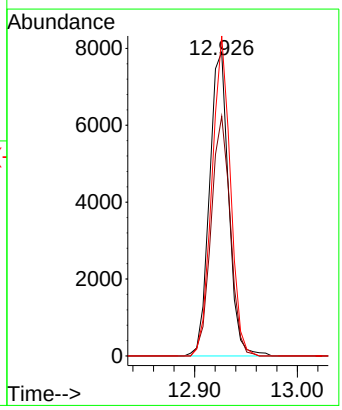


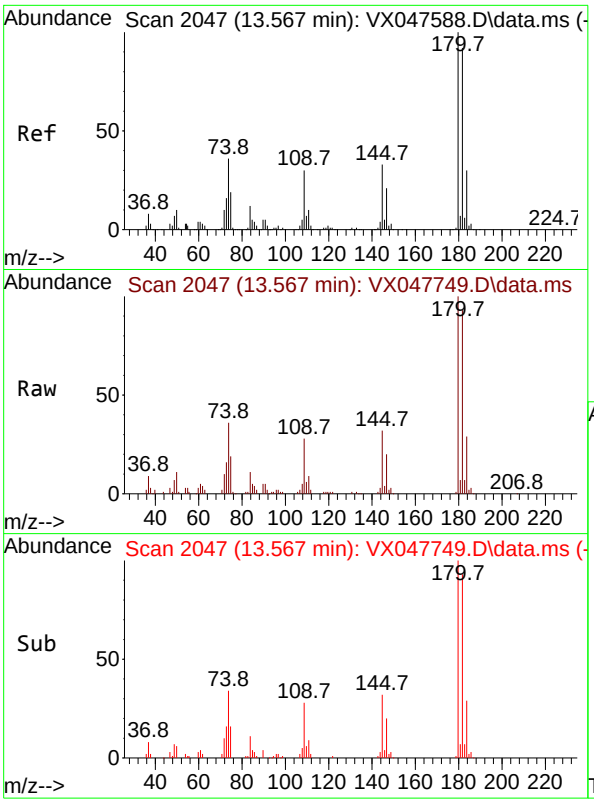


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.622 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion: 75 Resp: 10228

Ion	Ratio	Lower	Upper
75	100		
155	78.8	37.7	113.1
157	101.1	49.8	149.4



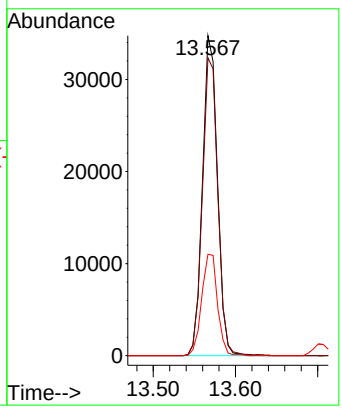


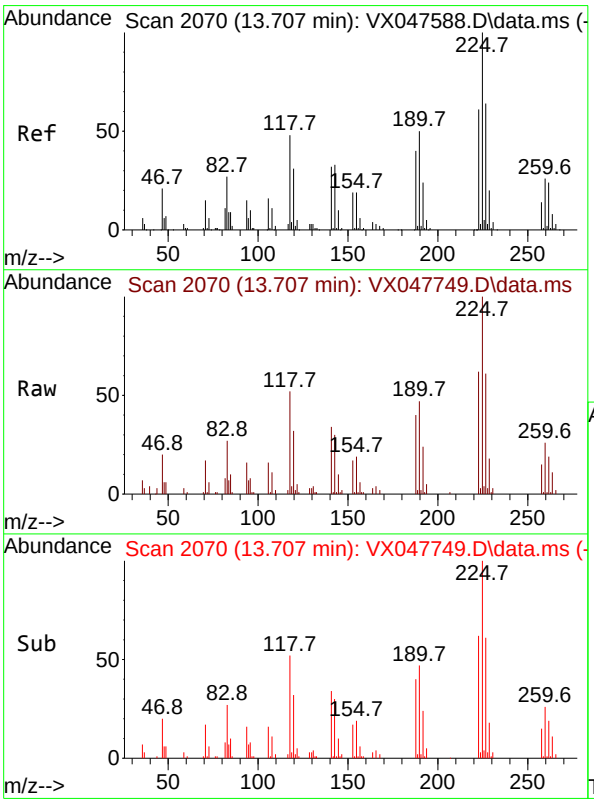
#93
1,2,4-Trichlorobenzene
Concen: 16.358 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:180 Resp: 43903

Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.6	139.8
145	33.5	16.4	49.1

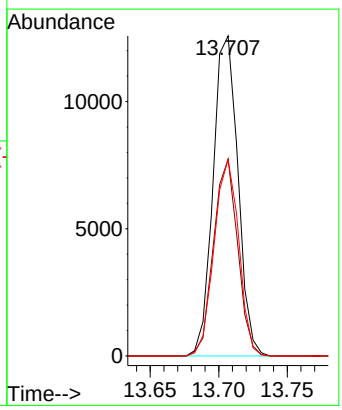


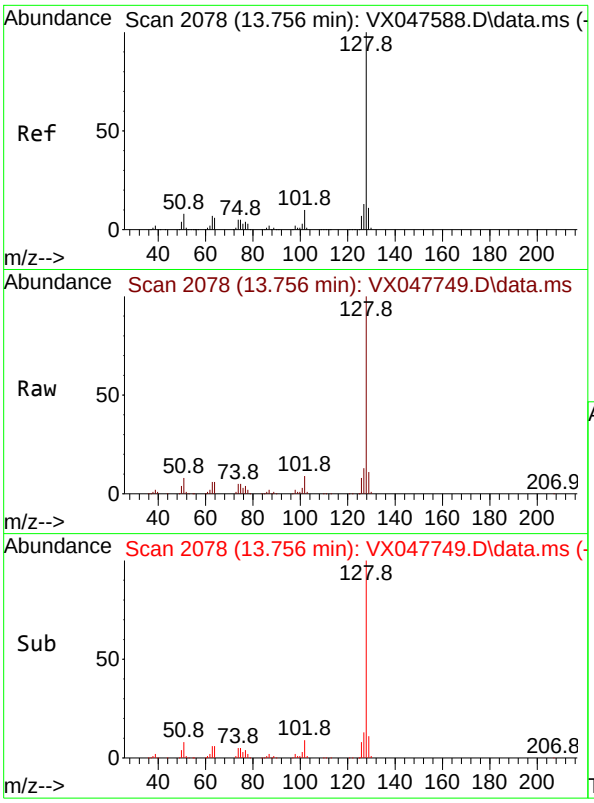


#94
Hexachlorobutadiene
Concen: 17.385 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:225 Resp: 15848

Ion	Ratio	Lower	Upper
225	100		
223	59.8	31.7	95.1
227	60.8	32.0	96.0



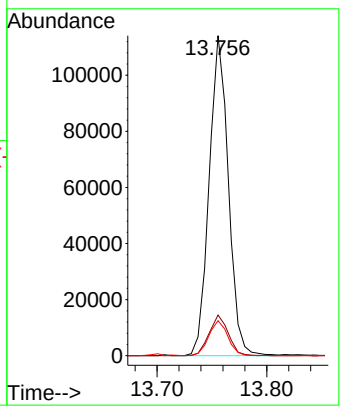


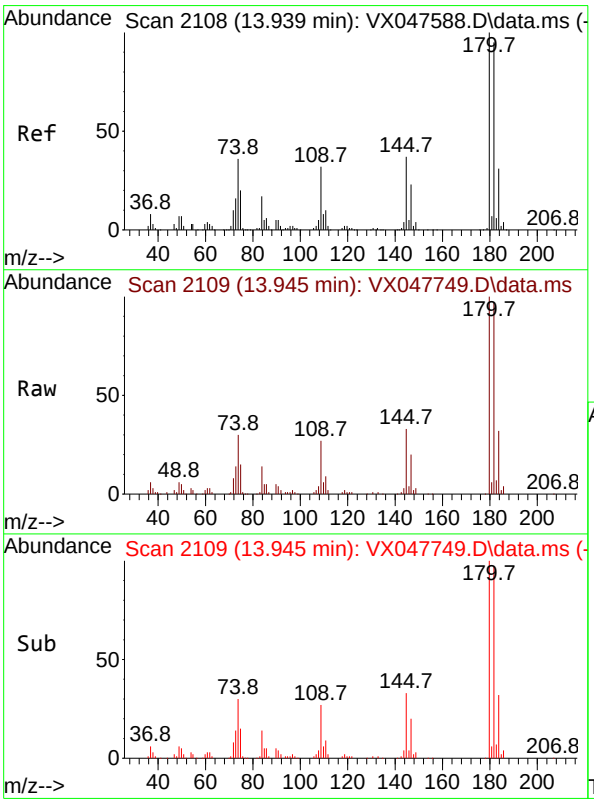
#95
Naphthalene
Concen: 16.995 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBSD03

Tgt Ion:128 Resp: 138889

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.8	13.2

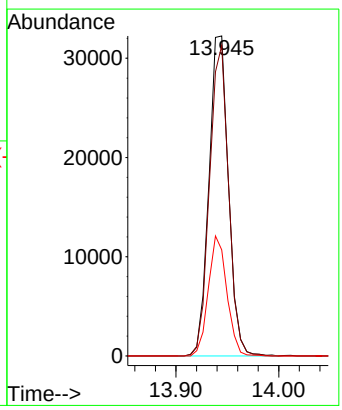




#96
1,2,3-Trichlorobenzene
Concen: 17.094 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047749.D
Acq: 24 Sep 2025 04:14

Tgt Ion:180 Resp: 42676

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.6	142.8
145	35.6	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	136245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	254252	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	232007	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	113030	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	117949	54.388	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.780%			
35) Dibromofluoromethane	5.373	113	92049	53.983	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.960%			
50) Toluene-d8	8.635	98	314422	53.290	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.580%			
62) 4-Bromofluorobenzene	11.061	95	120804	53.949	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	80794	57.267	ug/l	100
3) Chloromethane	1.301	50	100073	53.970	ug/l	97
4) Vinyl Chloride	1.380	62	98905	54.491	ug/l	99
5) Bromomethane	1.611	94	63064	54.792	ug/l	99
6) Chloroethane	1.691	64	63530	52.368	ug/l	98
7) Trichlorofluoromethane	1.892	101	138008	51.208	ug/l	99
8) Diethyl Ether	2.136	74	59838	54.277	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	79844	50.667	ug/l	99
10) Methyl Iodide	2.453	142	124745	50.757	ug/l	100
11) Tert butyl alcohol	2.947	59	65972	273.139	ug/l	100
12) 1,1-Dichloroethene	2.325	96	85914	53.075	ug/l	97
13) Acrolein	2.233	56	62008	278.592	ug/l	97
14) Allyl chloride	2.666	41	160323	47.997	ug/l	95
15) Acrylonitrile	3.056	53	274545	306.873	ug/l	99
16) Acetone	2.373	43	219982	233.292	ug/l	97
17) Carbon Disulfide	2.514	76	234371	52.888	ug/l	99
18) Methyl Acetate	2.697	43	128034	61.011	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	320438	54.228	ug/l	98
20) Methylene Chloride	2.788	84	106137	53.176	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	93317	53.545	ug/l	96
22) Diisopropyl ether	3.751	45	350616	54.161	ug/l	86
23) Vinyl Acetate	3.715	43	1442450	278.405	ug/l	100
24) 1,1-Dichloroethane	3.605	63	182725	53.106	ug/l	99
25) 2-Butanone	4.538	43	340369	289.378	ug/l	97
26) 2,2-Dichloropropane	4.465	77	70096	24.508	ug/l	93
27) cis-1,2-Dichloroethene	4.483	96	113757	53.299	ug/l	92
28) Bromochloromethane	4.885	49	80547	53.622	ug/l	99
29) Tetrahydrofuran	4.989	42	220667	311.862	ug/l	100
30) Chloroform	5.080	83	187454	53.913	ug/l	100
31) Cyclohexane	5.458	56	145273	50.693	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	154526	52.395	ug/l	99
36) 1,1-Dichloropropene	5.678	75	120688	48.437	ug/l	99
37) Ethyl Acetate	4.702	43	149048	55.869	ug/l	98
38) Carbon Tetrachloride	5.666	117	130818	48.322	ug/l	99
39) Methylcyclohexane	7.367	83	133414	47.171	ug/l	98
40) Benzene	6.025	78	389912	51.523	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	77979	56.618	ug/l	99
42) 1,2-Dichloroethane	6.074	62	143000	49.663	ug/l	98
43) Isopropyl Acetate	6.324	43	235980	53.933	ug/l	99
44) Trichloroethene	7.110	130	94203	51.488	ug/l	93
45) 1,2-Dichloropropane	7.415	63	102032	52.653	ug/l	99
46) Dibromomethane	7.568	93	74570	52.881	ug/l	98
47) Bromodichloromethane	7.805	83	150372	51.676	ug/l	97
48) Methyl methacrylate	7.677	41	118513	54.378	ug/l	97
49) 1,4-Dioxane	7.647	88	30387	1379.627	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	718573	296.207	ug/l	100
52) Toluene	8.702	92	239637	51.397	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	137402	46.292	ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	149149	47.013	ug/l	100
55) 1,1,2-Trichloroethane	9.134	97	96376	53.607	ug/l	97
56) Ethyl methacrylate	9.104	69	158357	56.087	ug/l	96
57) 1,3-Dichloropropane	9.293	76	167428	54.213	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	402380	294.817	ug/l	100
59) 2-Hexanone	9.415	43	503351	288.900	ug/l	98
60) Dibromochloromethane	9.506	129	111057	53.612	ug/l	98
61) 1,2-Dibromoethane	9.592	107	103205	56.360	ug/l	100
64) Tetrachloroethene	9.256	164	78844	52.130	ug/l	96
65) Chlorobenzene	10.061	112	265659	50.402	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.146	131	93007	51.137	ug/l	99
67) Ethyl Benzene	10.177	91	452093	49.712	ug/l	100
68) m/p-Xylenes	10.287	106	343642	101.520	ug/l	97
69) o-Xylene	10.628	106	167926	51.290	ug/l	98
70) Styrene	10.640	104	296373	51.662	ug/l	98
71) Bromoform	10.787	173	73291	53.967	ug/l	98
73) Isopropylbenzene	10.945	105	417583	48.594	ug/l	99
74) N-amyl acetate	10.829	43	207812	53.032	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	142889	54.960	ug/l	100
76) 1,2,3-Trichloropropane	11.219	75	149457	65.308	ug/l	89
77) Bromobenzene	11.183	156	107213	50.657	ug/l	97
78) n-propylbenzene	11.287	91	498719	49.095	ug/l	99
79) 2-Chlorotoluene	11.347	91	304904	49.006	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	345988	49.006	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	35912	40.018	ug/l	99
82) 4-Chlorotoluene	11.439	91	357733	48.683	ug/l	99
83) tert-Butylbenzene	11.695	119	346038	47.879	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	353276	49.355	ug/l	100
85) sec-Butylbenzene	11.872	105	415999	48.459	ug/l	100
86) p-Isopropyltoluene	11.994	119	348647	47.972	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	195732	49.790	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	195422	48.435	ug/l	99
89) n-Butylbenzene	12.317	91	317773	47.254	ug/l	98
90) Hexachloroethane	12.518	117	62783	49.203	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	191705	51.187	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28696	54.516	ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	119753	49.199	ug/l	98
94) Hexachlorobutadiene	13.707	225	39271	47.499	ug/l	99
95) Naphthalene	13.756	128	400255	54.002	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	118573	52.369	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

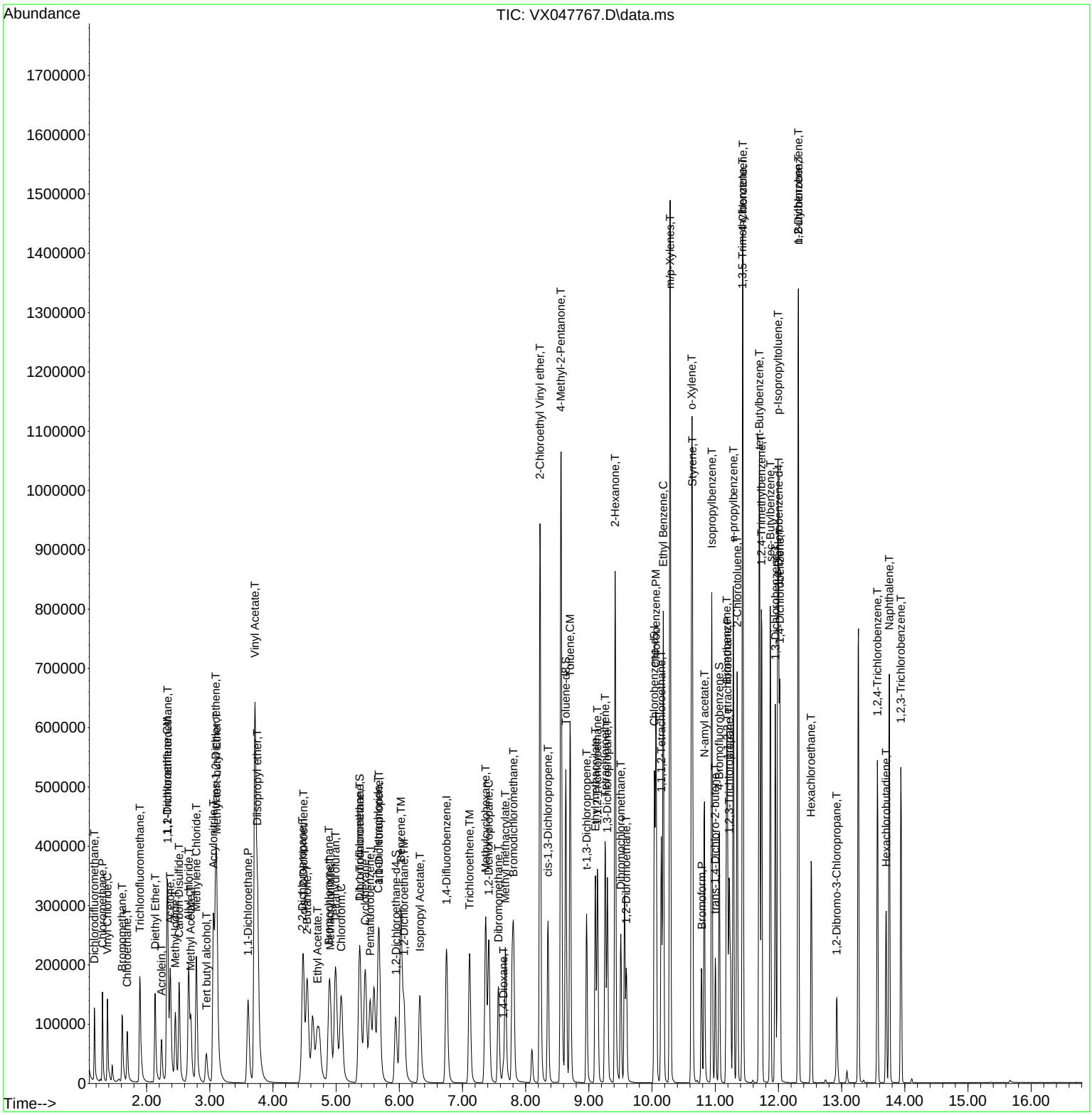
(#) = qualifier out of range (m) = manual integration (+) = signals summed

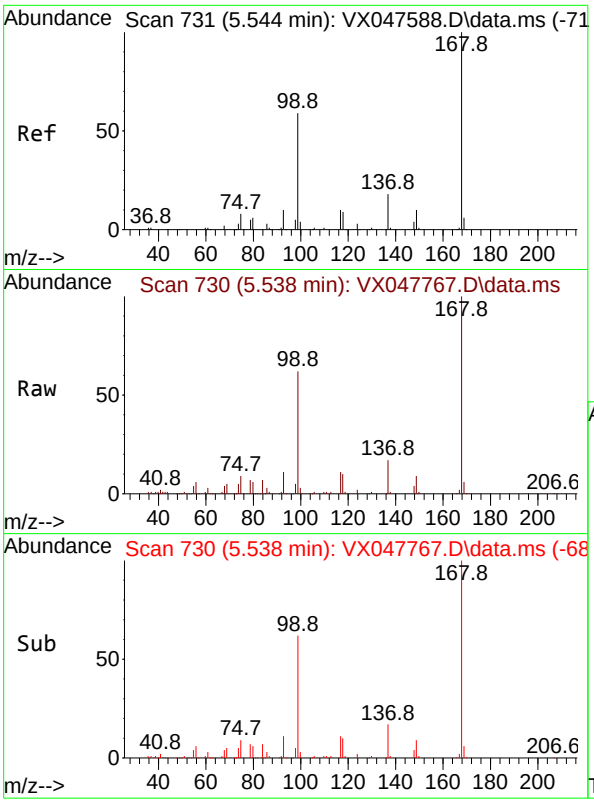
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



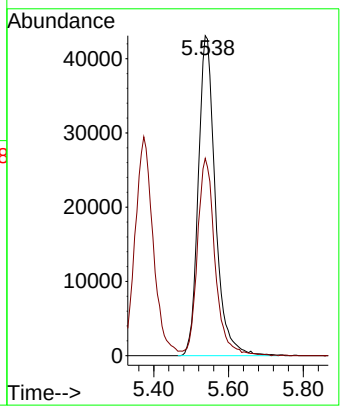


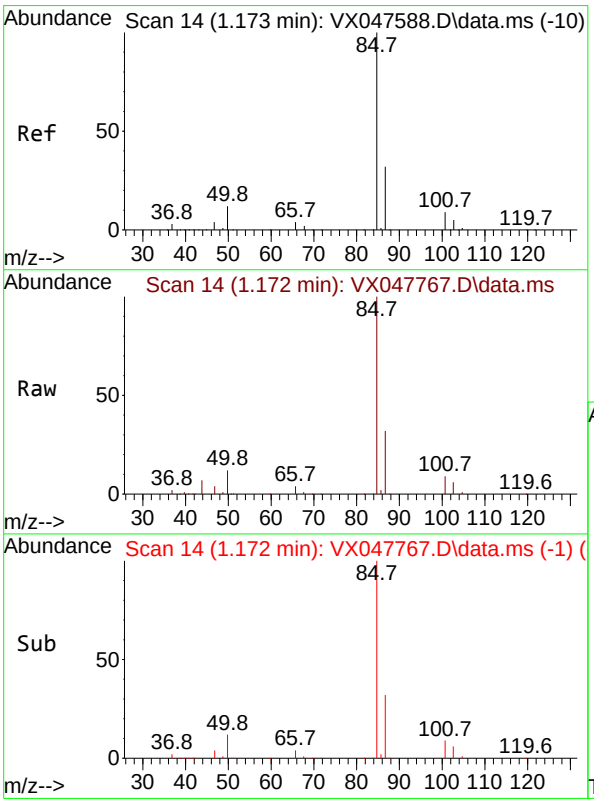
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 136245

Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2

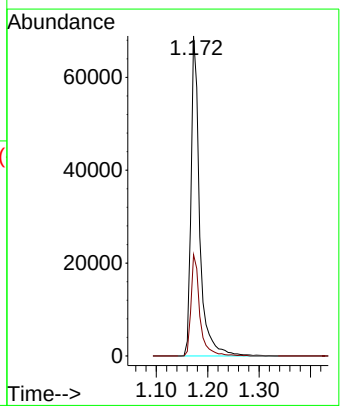


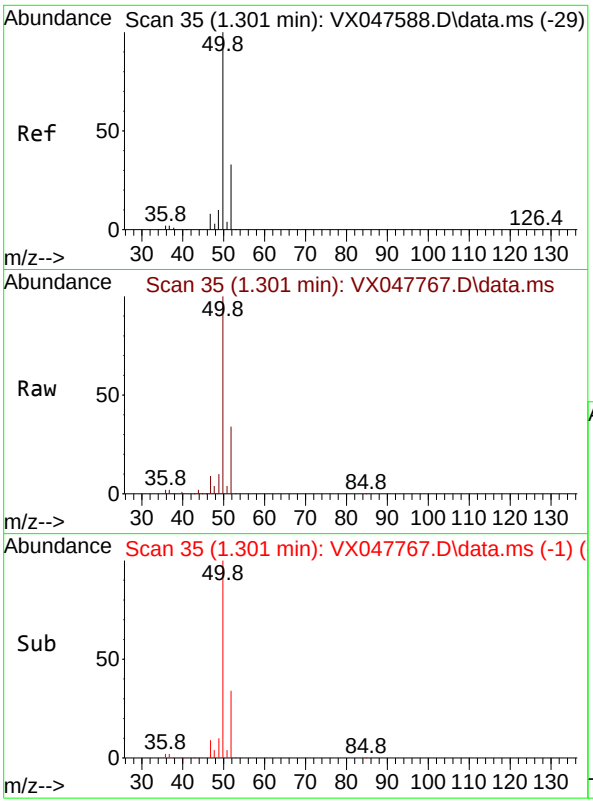


#2
Dichlorodifluoromethane
Concen: 57.267 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 85 Resp: 80794

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3



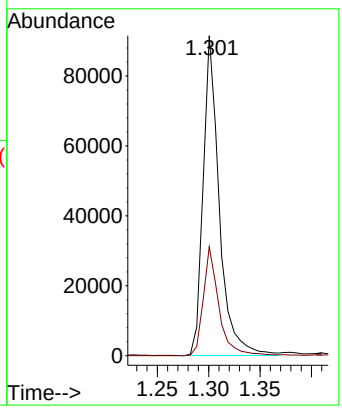


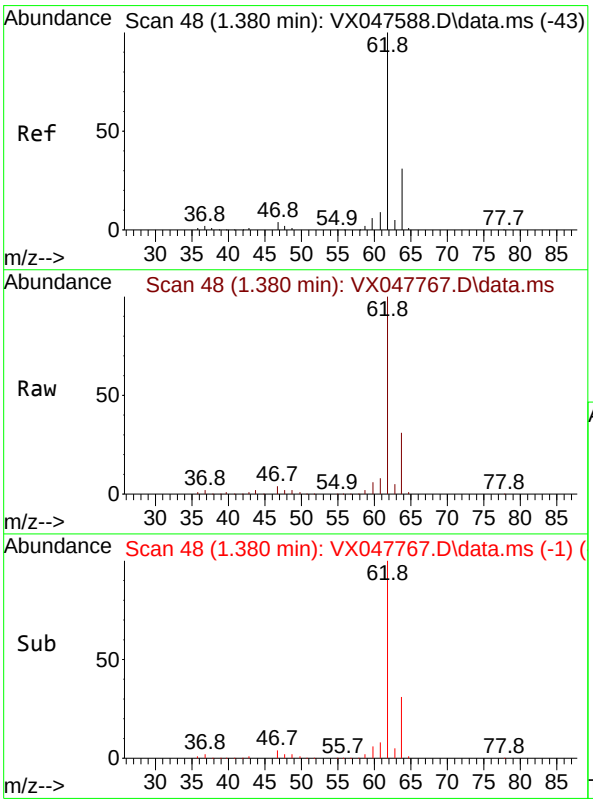
#3
Chloromethane
Concen: 53.970 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 100073

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.1	39.1

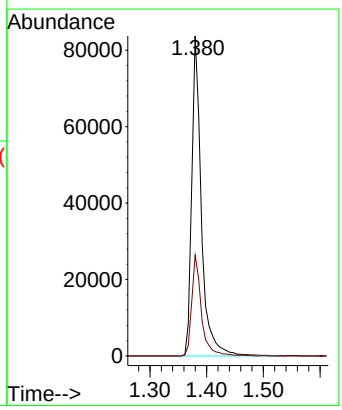


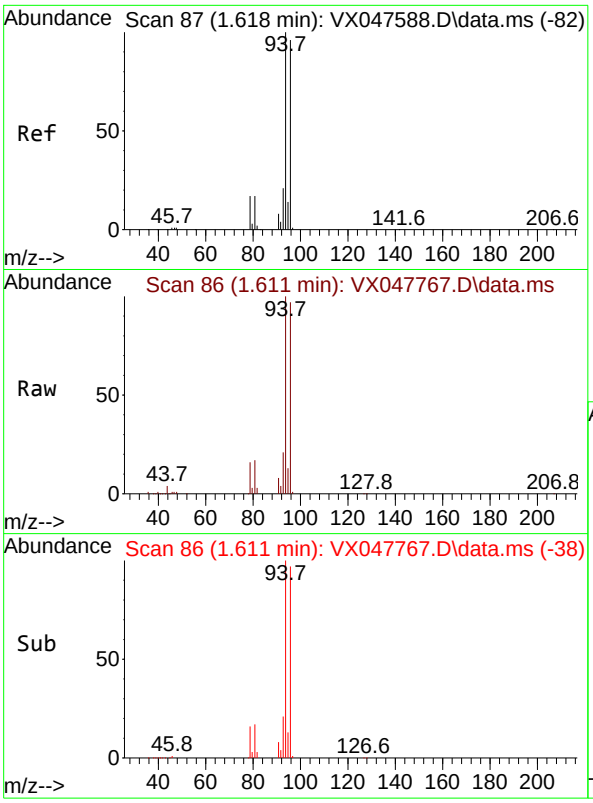


#4
Vinyl Chloride
Concen: 54.491 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 98905

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3



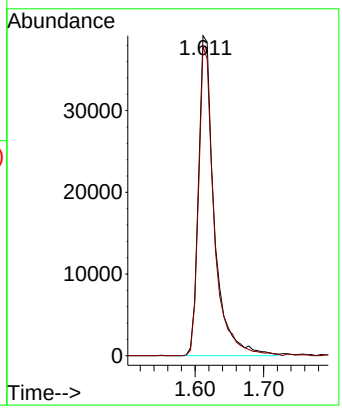


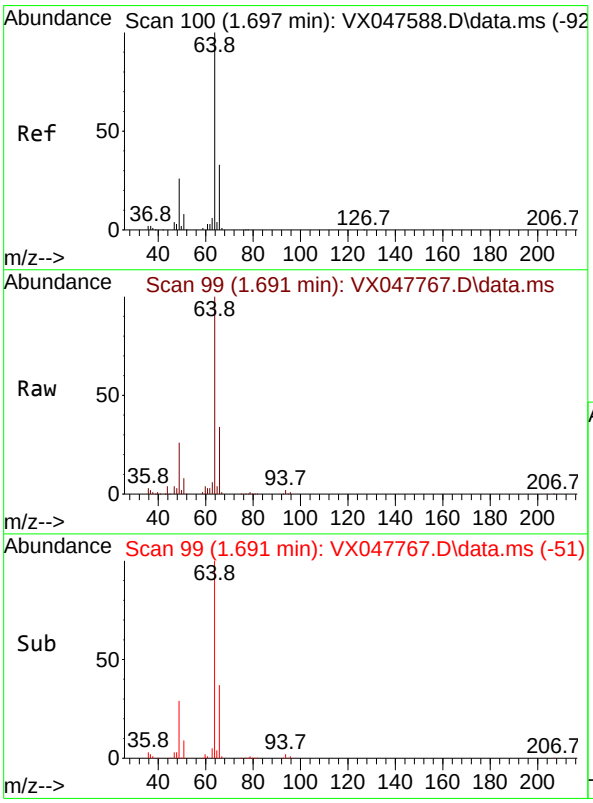
#5
Bromomethane
Concen: 54.792 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 63064

Ion	Ratio	Lower	Upper
94	100		
96	96.6	76.6	115.0

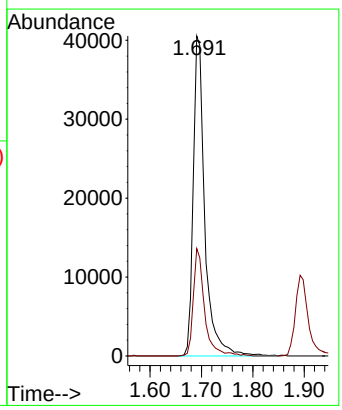


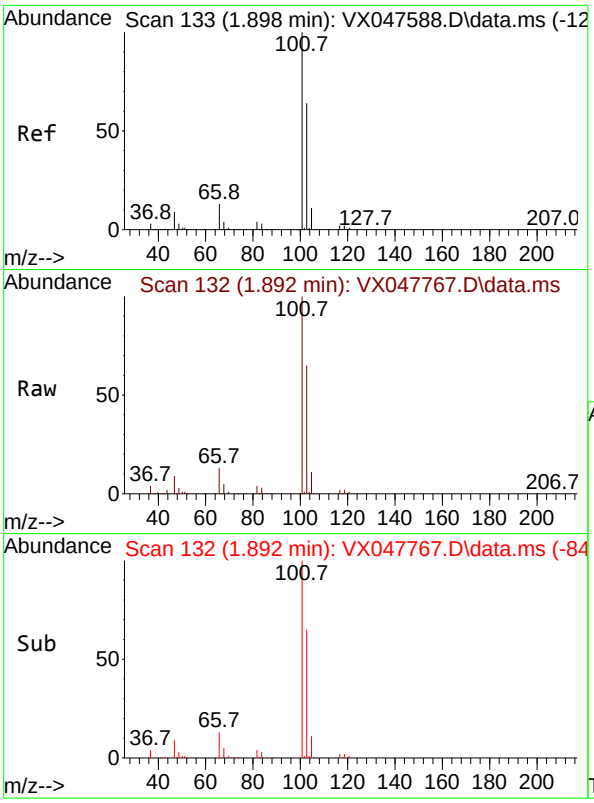


#6
Chloroethane
Concen: 52.368 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 64 Resp: 63530

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.1	39.1



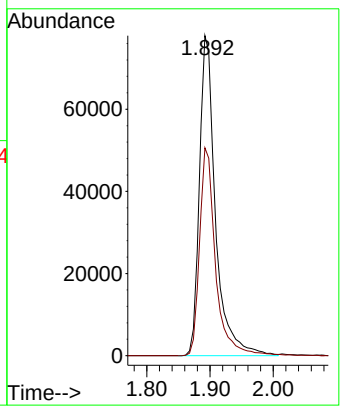


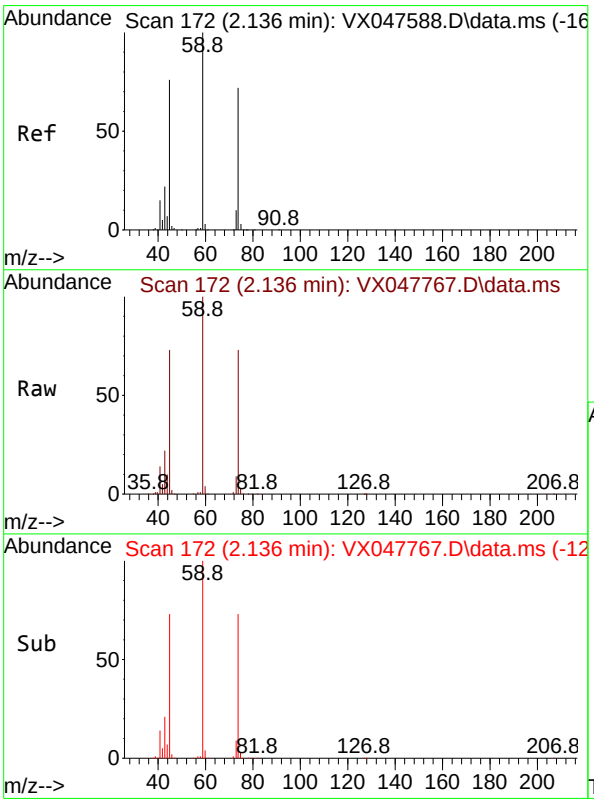
#7
Trichlorofluoromethane
Concen: 51.208 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 138008

Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.4	77.2

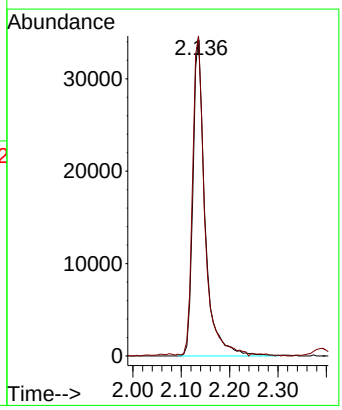


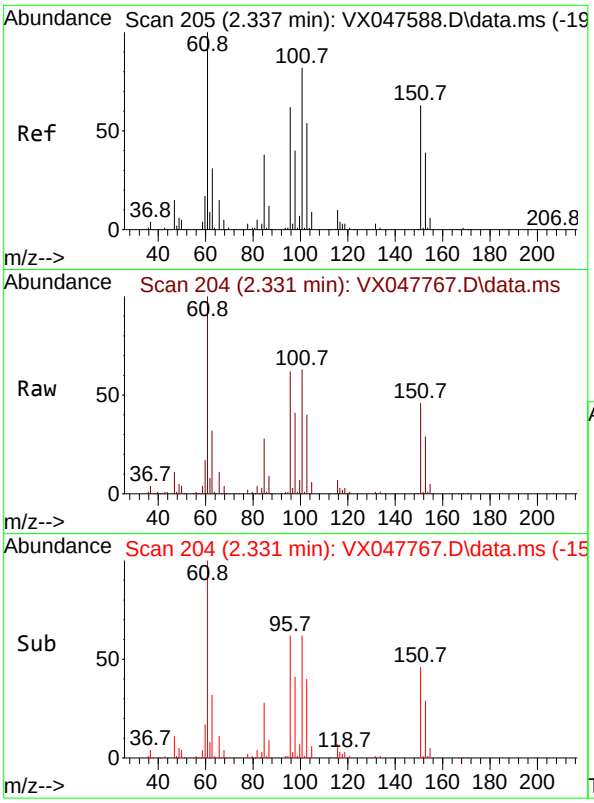


#8
Diethyl Ether
Concen: 54.277 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 74 Resp: 59838

Ion	Ratio	Lower	Upper
74	100		
45	101.9	52.3	156.8



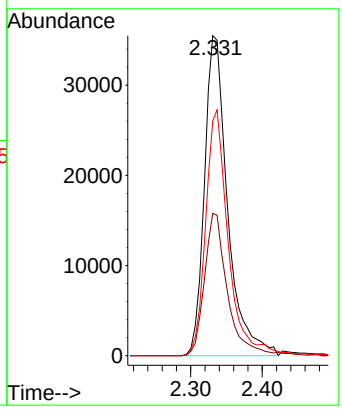


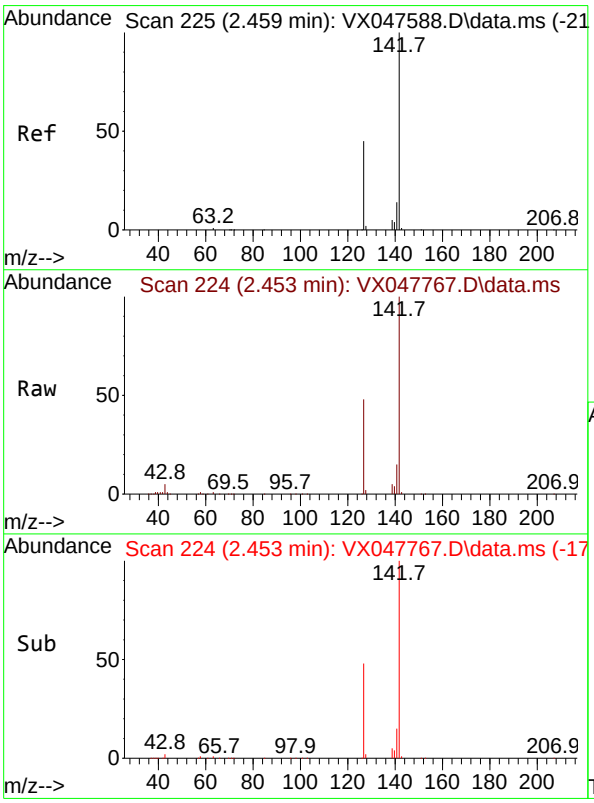
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.667 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 79844

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	75.7	59.4	89.0

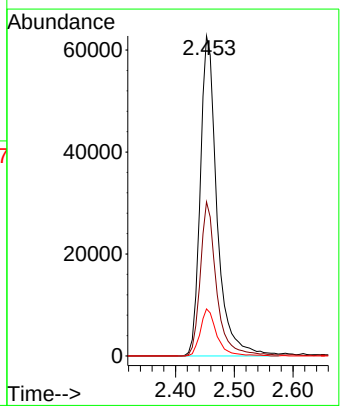


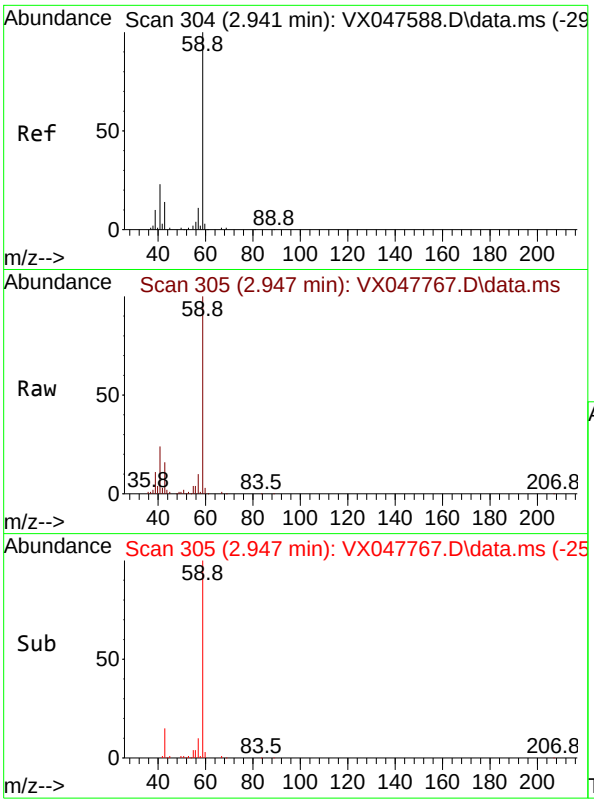


#10
Methyl Iodide
Concen: 50.757 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:142 Resp: 124745

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	14.5	11.4	17.0



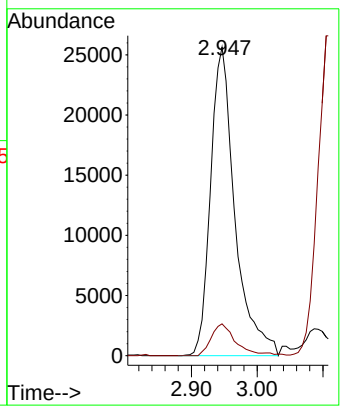


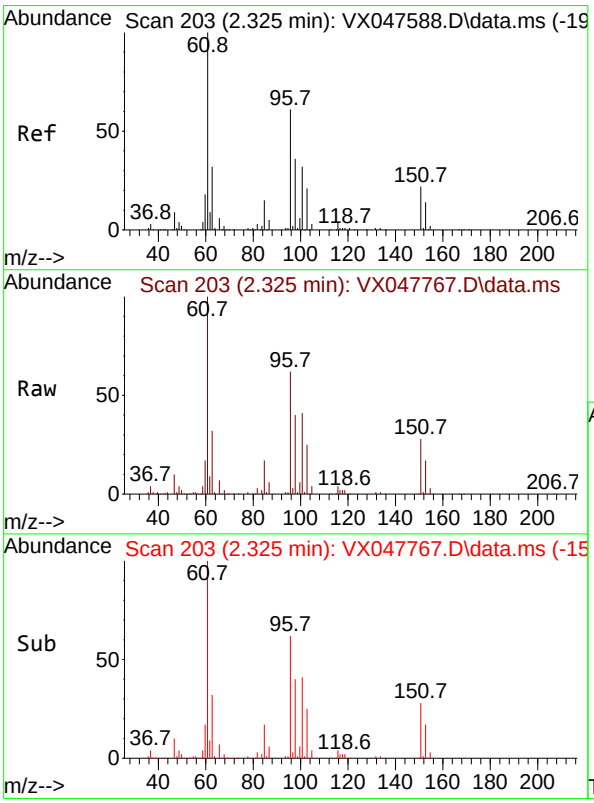
#11
Tert butyl alcohol
Concen: 273.139 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 65972

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

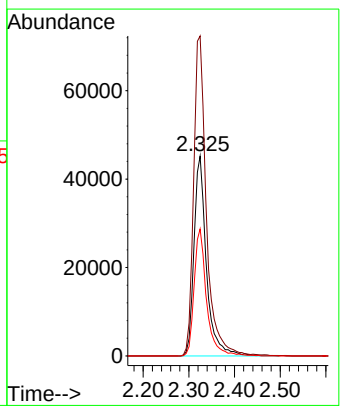


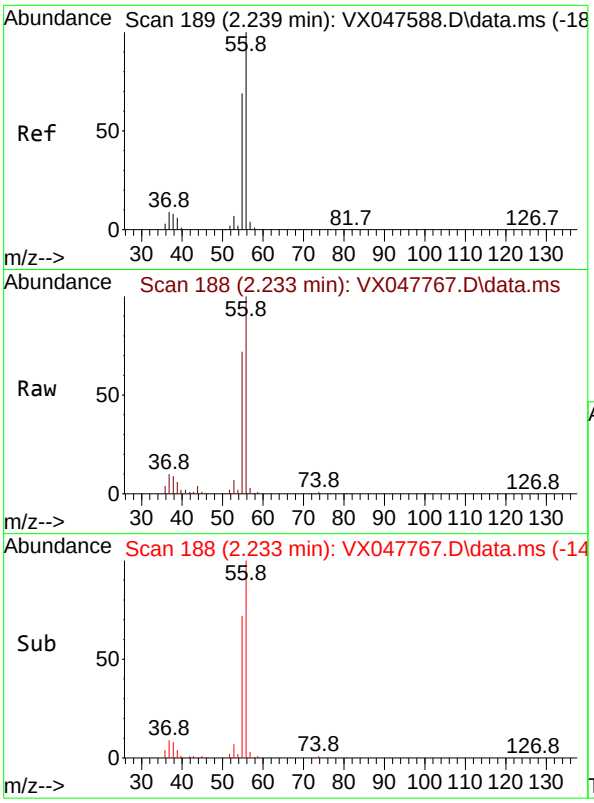


#12
1,1-Dichloroethene
Concen: 53.075 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 85914

Ion	Ratio	Lower	Upper
96	100		
61	160.1	131.0	196.6
98	63.6	47.7	71.5



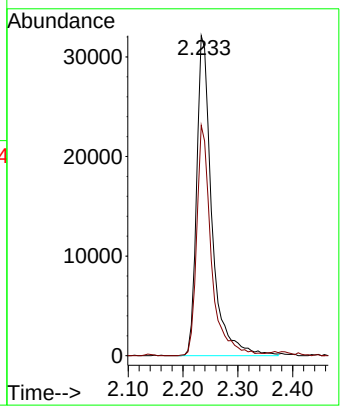


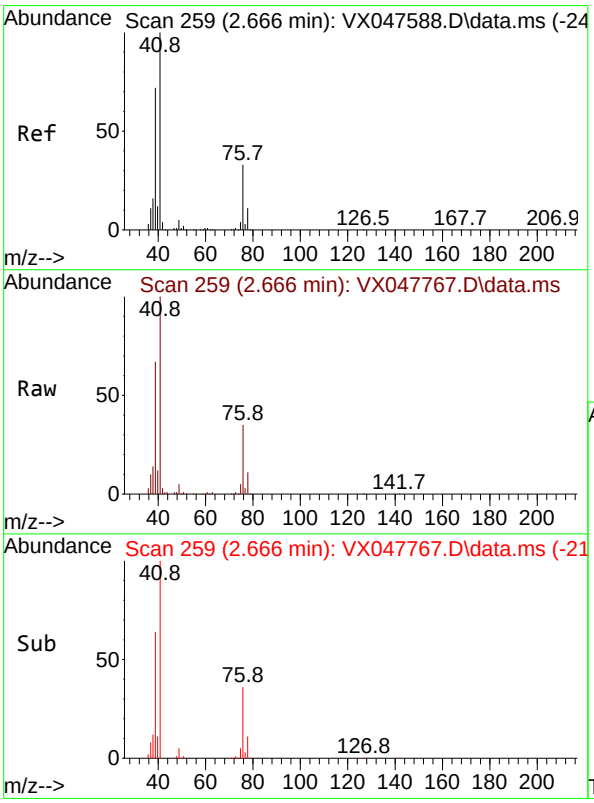
#13
Acrolein
Concen: 278.592 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 62008

Ion	Ratio	Lower	Upper
56	100		
55	69.2	57.2	85.8

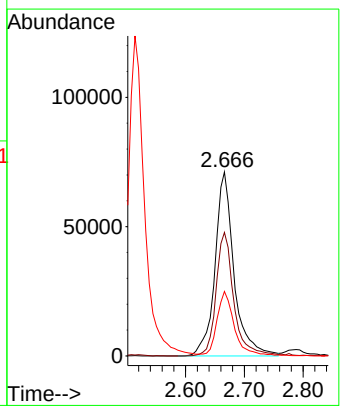


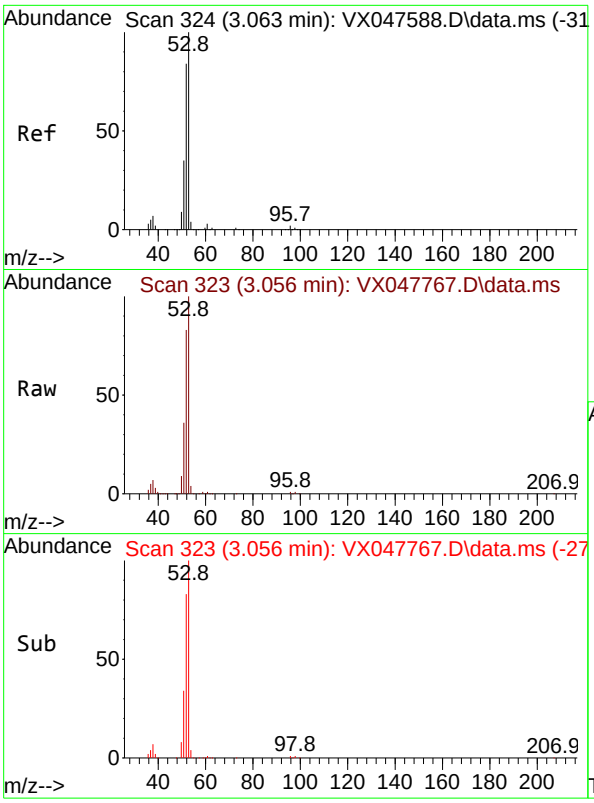


#14
Allyl chloride
Concen: 47.997 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 160323

Ion	Ratio	Lower	Upper
41	100		
39	62.7	54.7	82.1
76	31.5	25.7	38.5



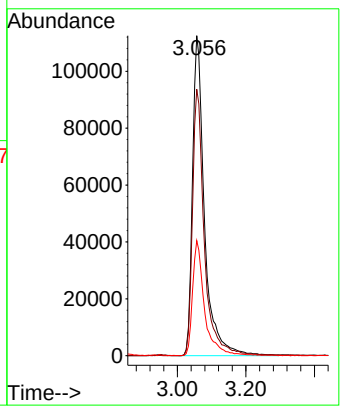


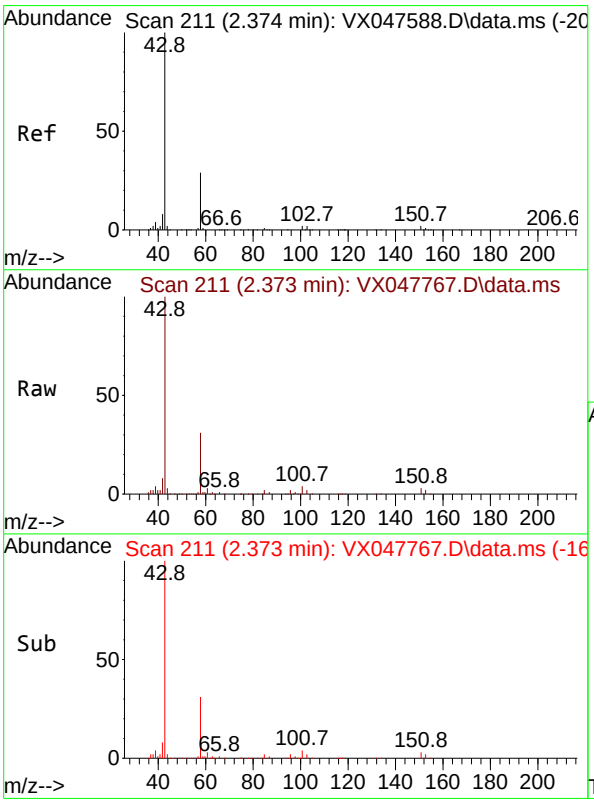
#15
Acrylonitrile
Concen: 306.873 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 274545

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	35.9	29.5	44.3

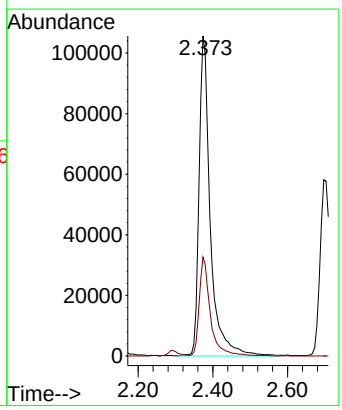


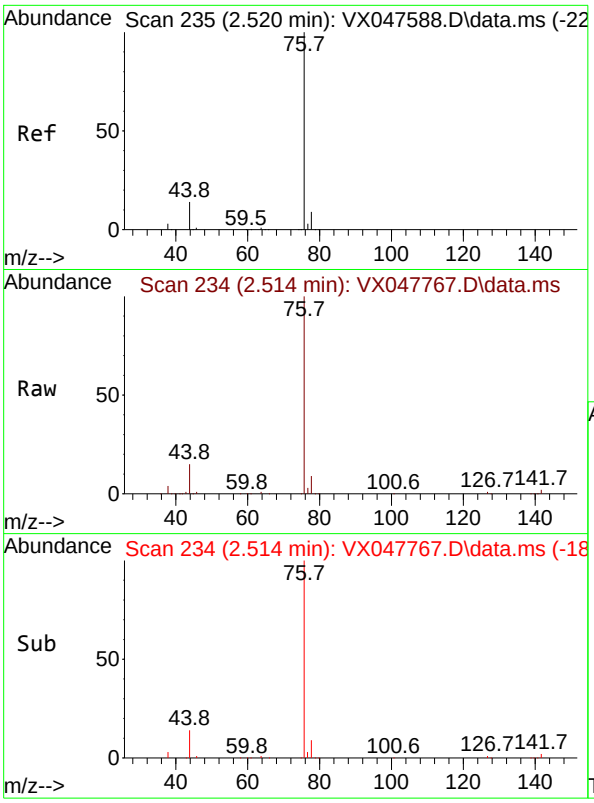


#16
Acetone
Concen: 233.292 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 219982

Ion	Ratio	Lower	Upper
43	100		
58	30.9	23.4	35.0



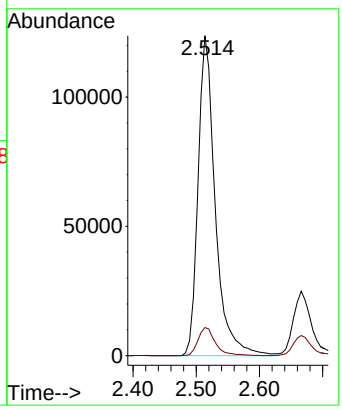


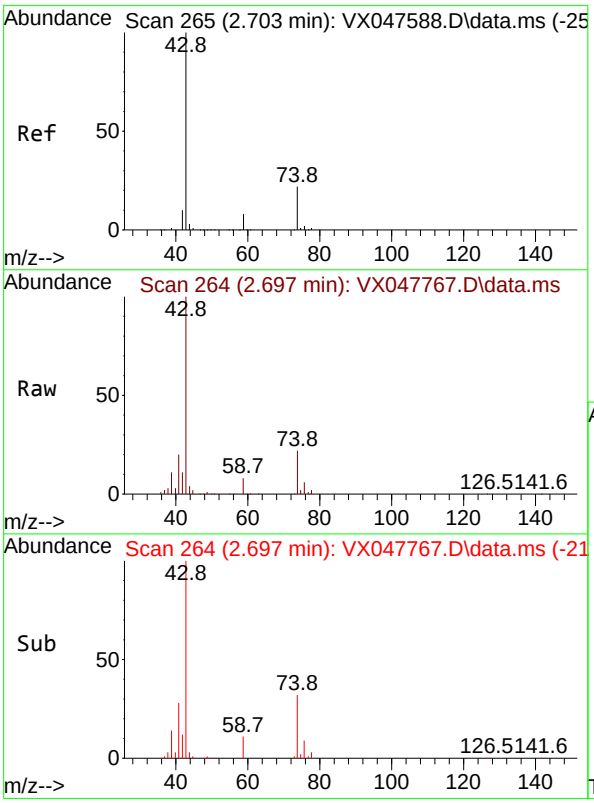
#17
Carbon Disulfide
Concen: 52.888 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 234371

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

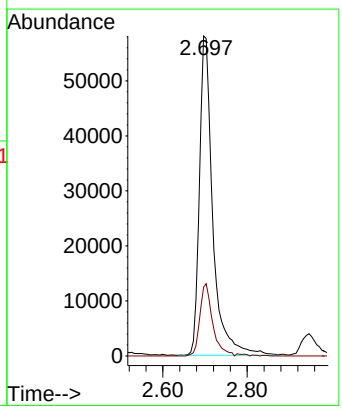


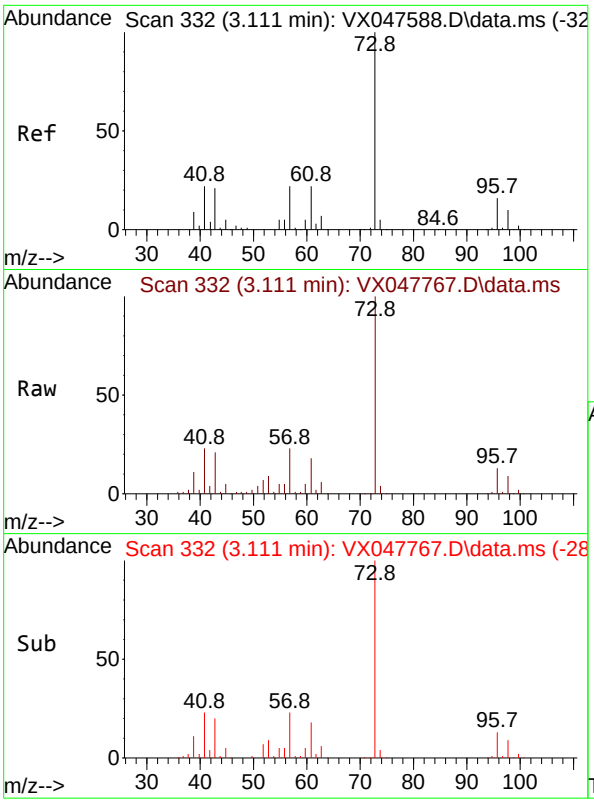


#18
Methyl Acetate
Concen: 61.011 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 128034

Ion	Ratio	Lower	Upper
43	100		
74	21.6	17.4	26.2



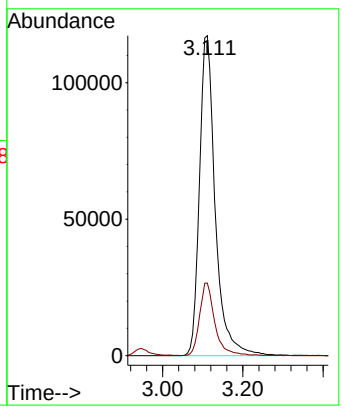


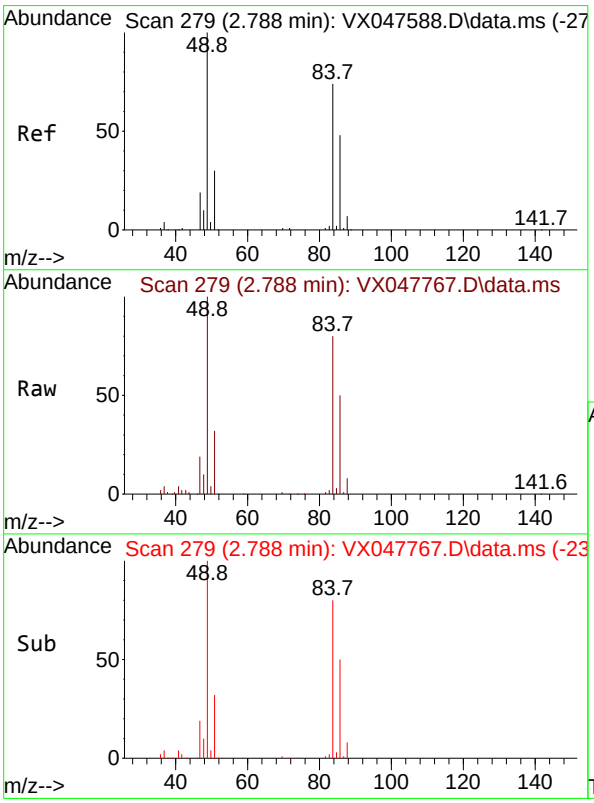
#19
Methyl tert-butyl Ether
Concen: 54.228 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 320438

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2

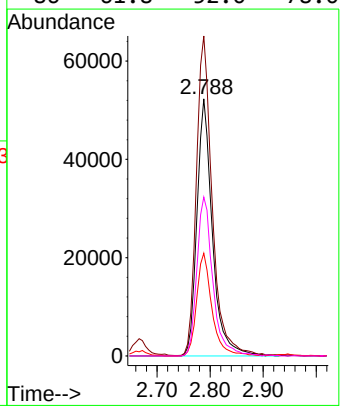


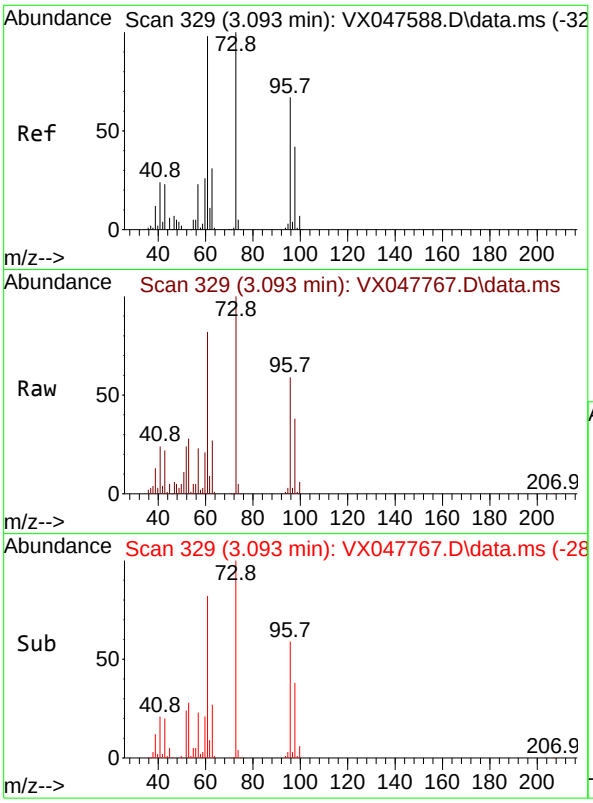


#20
Methylene Chloride
Concen: 53.176 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 84 Resp: 106137

Ion	Ratio	Lower	Upper
84	100		
49	124.3	108.6	162.8
51	39.9	32.6	48.8
86	61.8	52.0	78.0



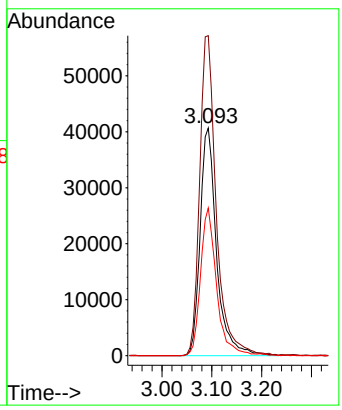


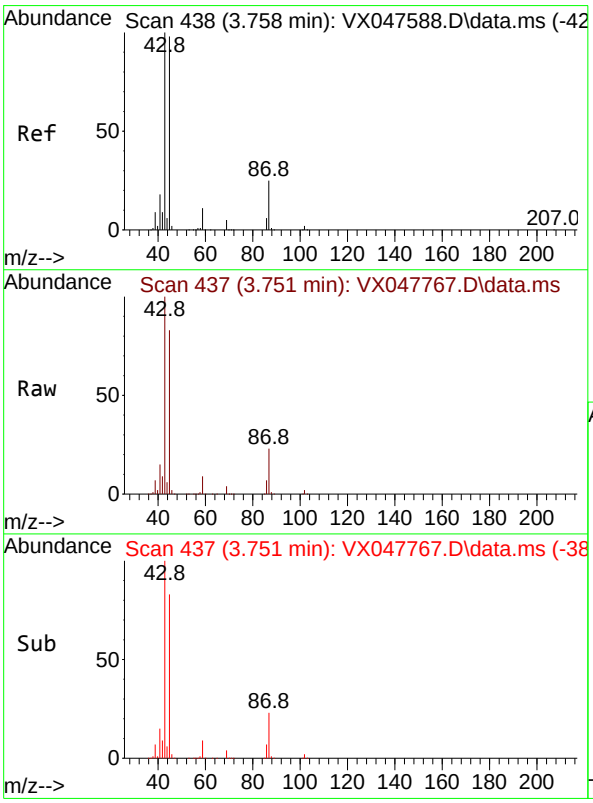
#21
trans-1,2-Dichloroethene
Concen: 53.545 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 93317

Ion	Ratio	Lower	Upper
96	100		
61	140.5	116.2	174.2
98	64.9	49.3	73.9

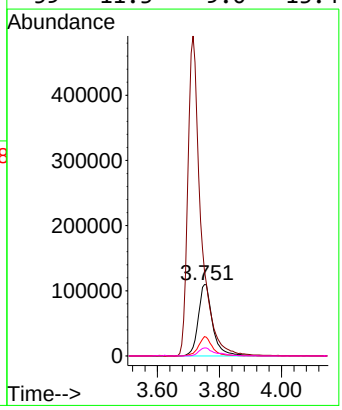


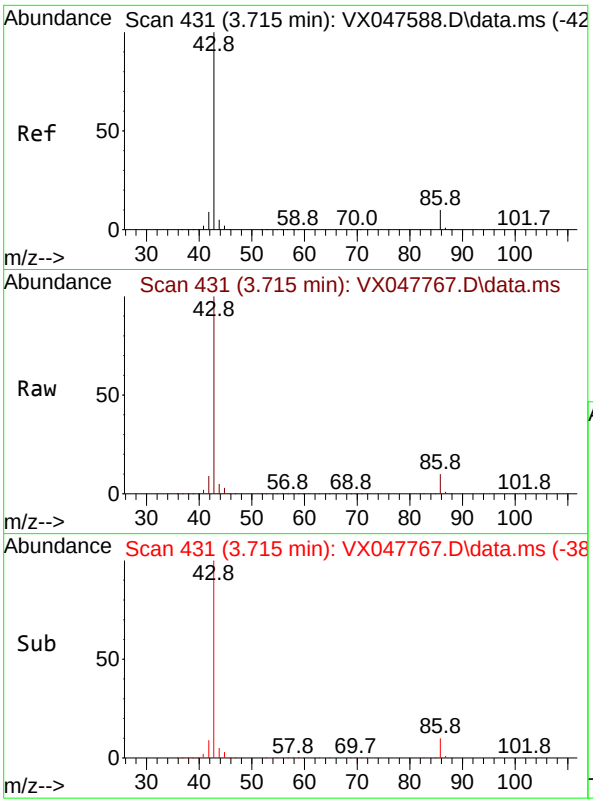


#22
Diisopropyl ether
Concen: 54.161 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 45 Resp: 350616

Ion	Ratio	Lower	Upper
45	100		
43	119.1	81.0	121.4
87	27.2	20.3	30.5
59	11.3	9.0	13.4



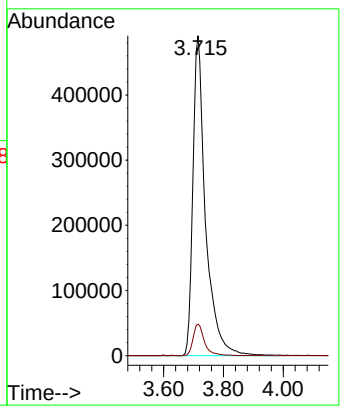


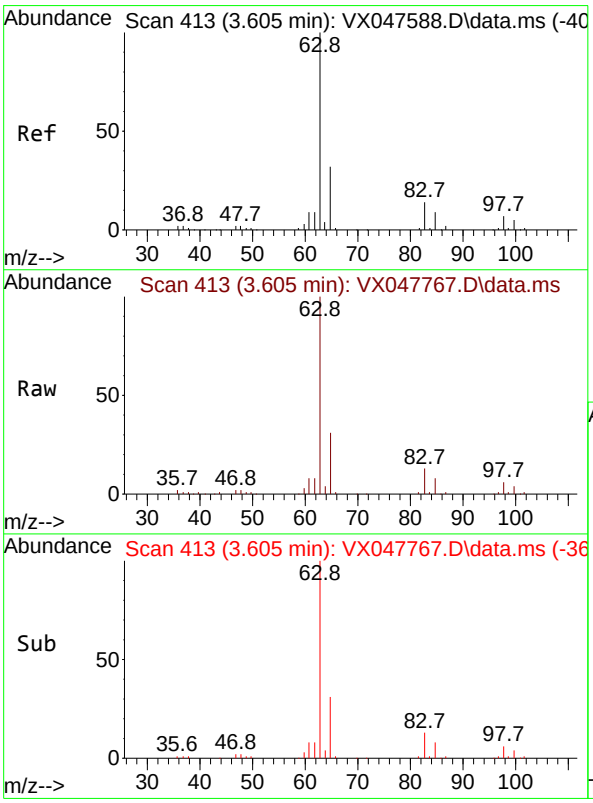
#23
Vinyl Acetate
Concen: 278.405 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1442450

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

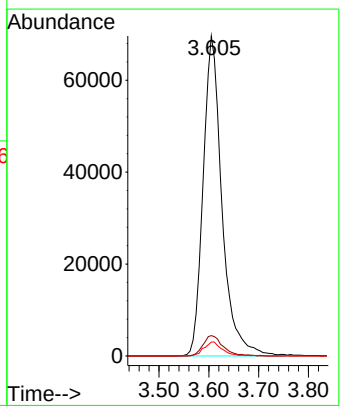


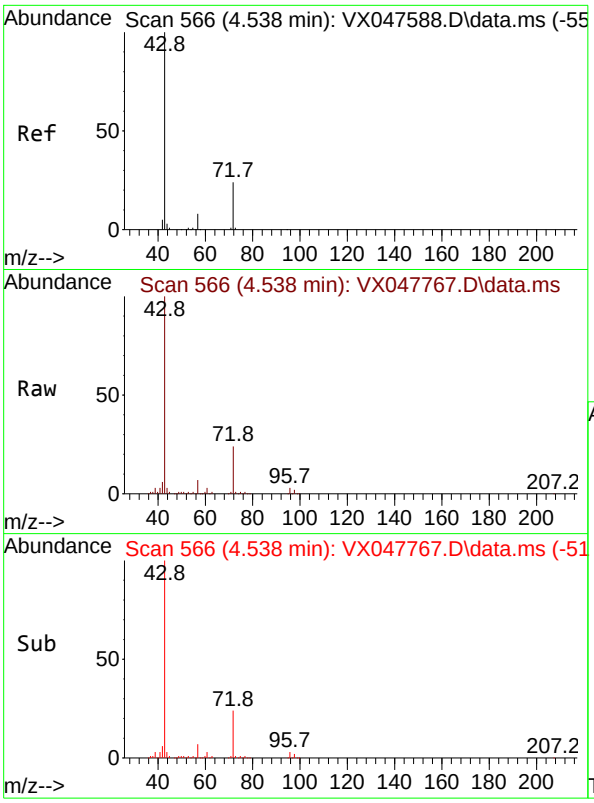


#24
1,1-Dichloroethane
Concen: 53.106 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 182725

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.3	2.3	6.9



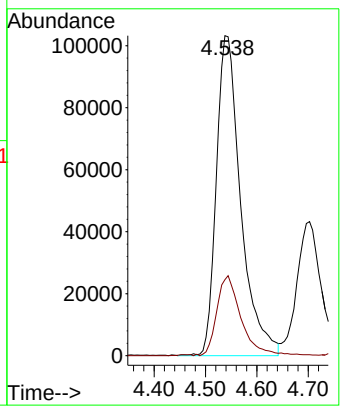


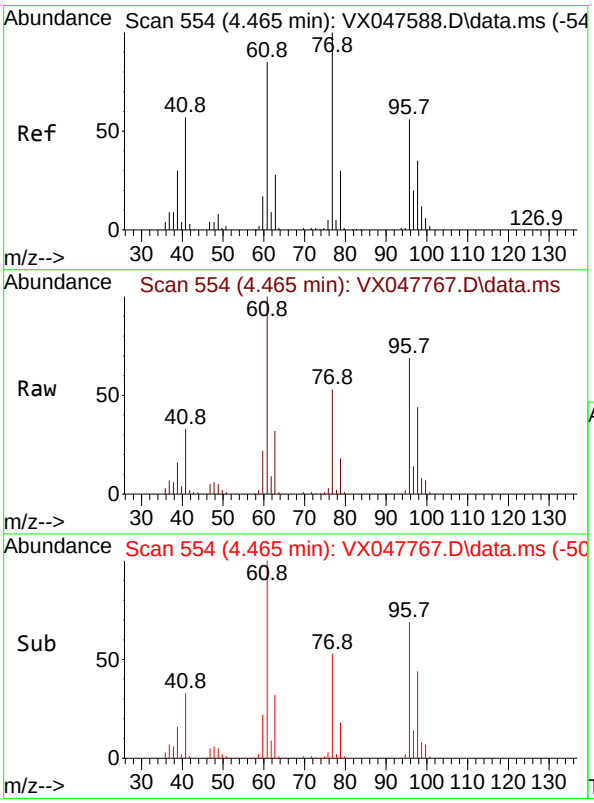
#25
2-Butanone
Concen: 289.378 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 340369

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.1	30.1

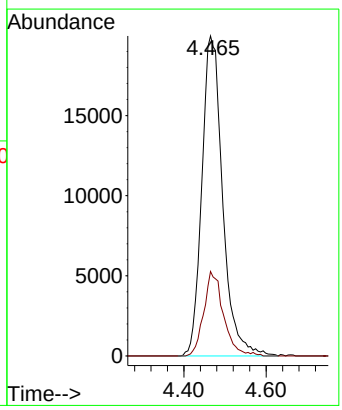


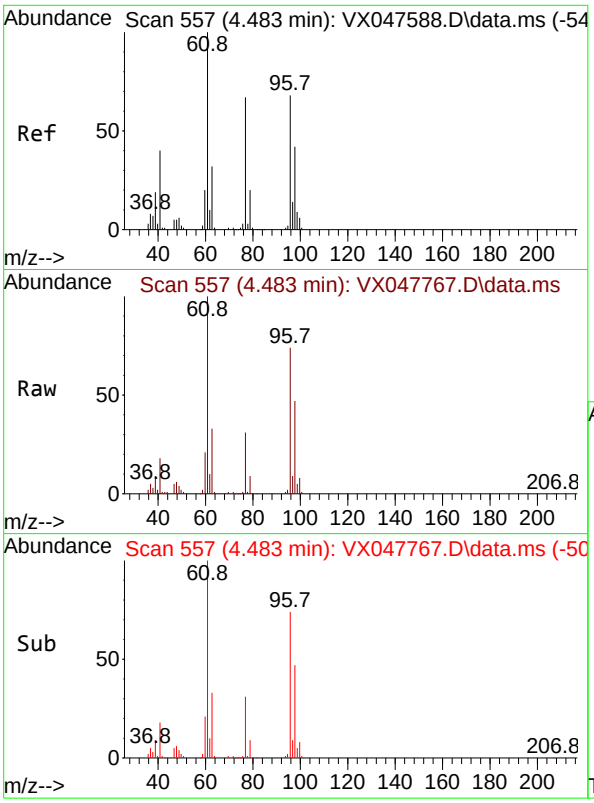


#26
2,2-Dichloropropane
Concen: 24.508 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 77 Resp: 70096

Ion	Ratio	Lower	Upper
77	100		
97	25.0	10.9	32.7



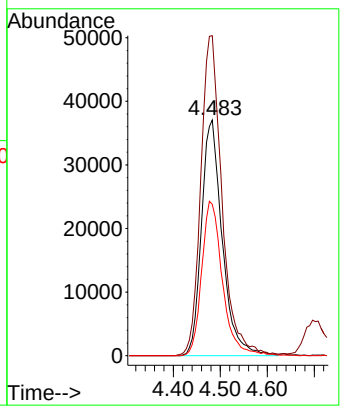


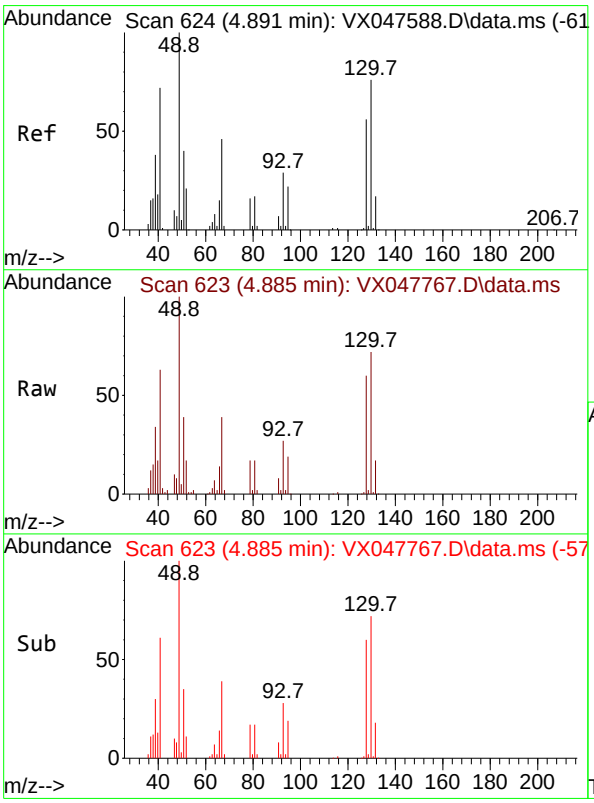
#27
cis-1,2-Dichloroethene
Concen: 53.299 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 113757

Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	303.2
98	65.5	0.0	127.8

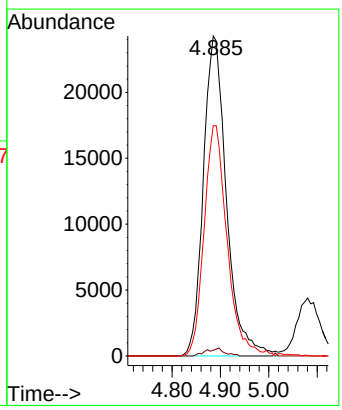


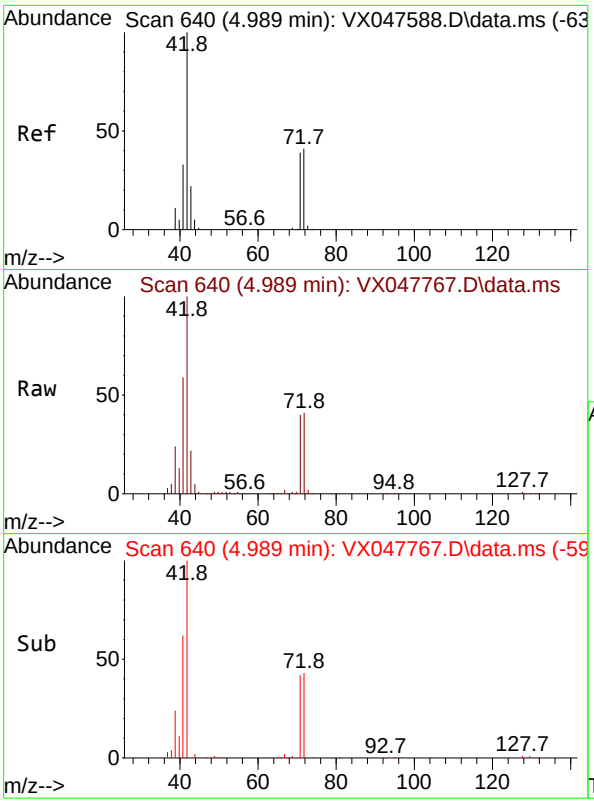


#28
Bromochloromethane
Concen: 53.622 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 49 Resp: 80547

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	71.6	57.8	86.8



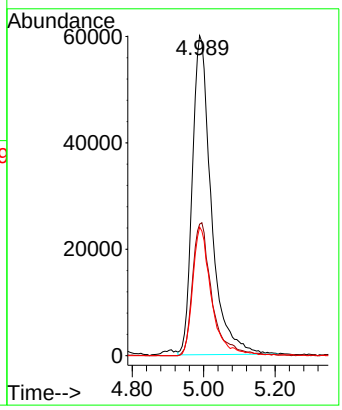


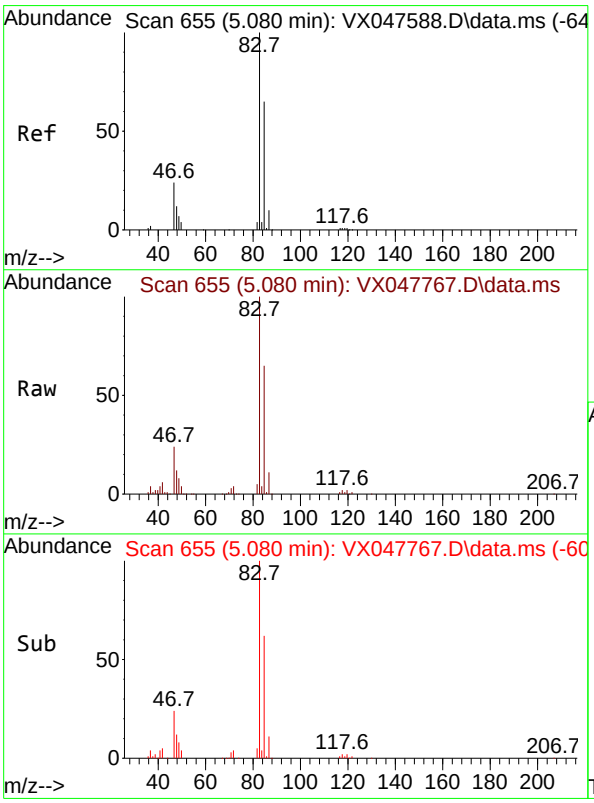
#29
Tetrahydrofuran
Concen: 311.862 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 220667

Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	39.6	31.9	47.9

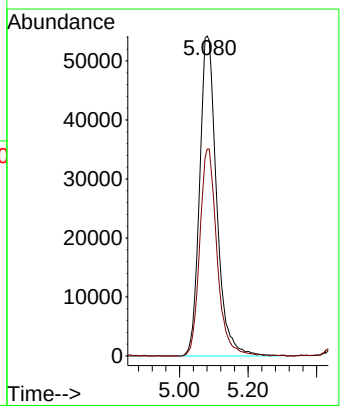


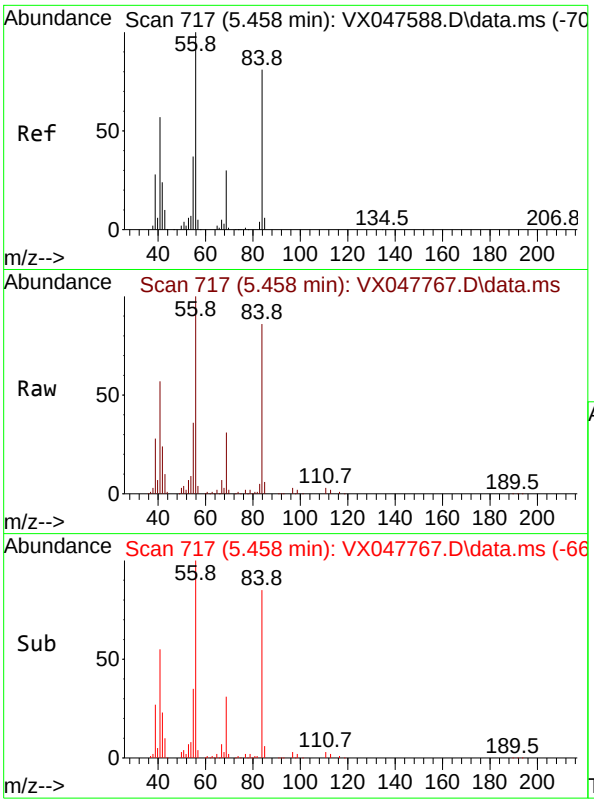


#30
Chloroform
Concen: 53.913 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 187454

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6



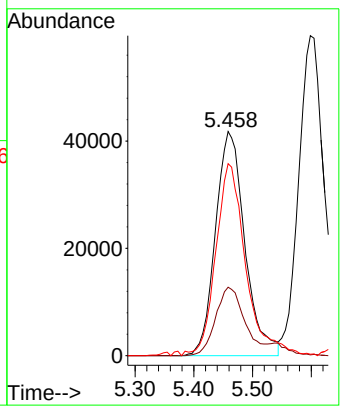


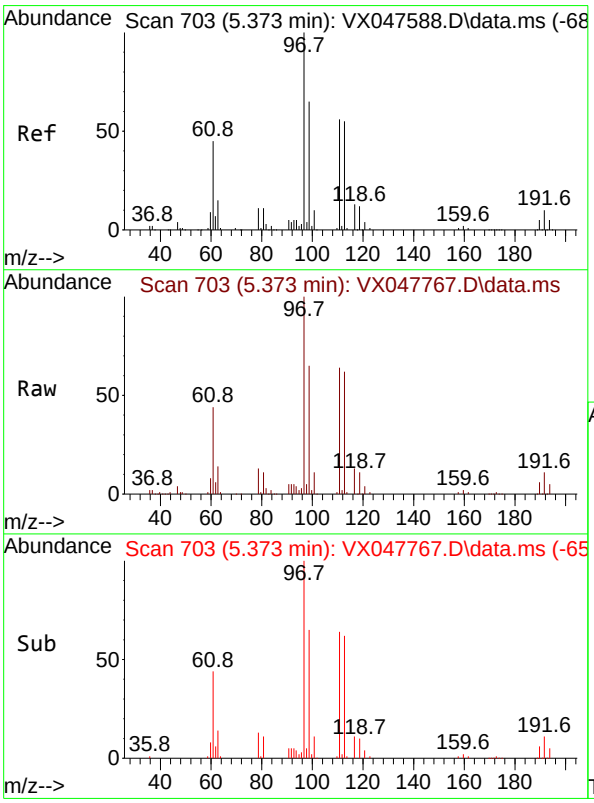
#31
Cyclohexane
Concen: 50.693 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 145273

Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.8	35.8
84	83.7	64.6	97.0

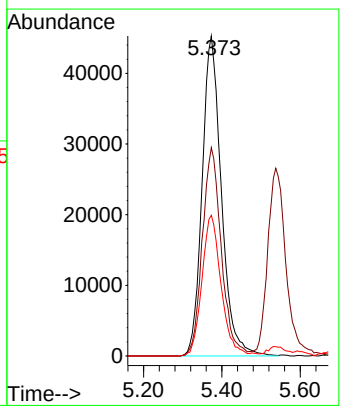


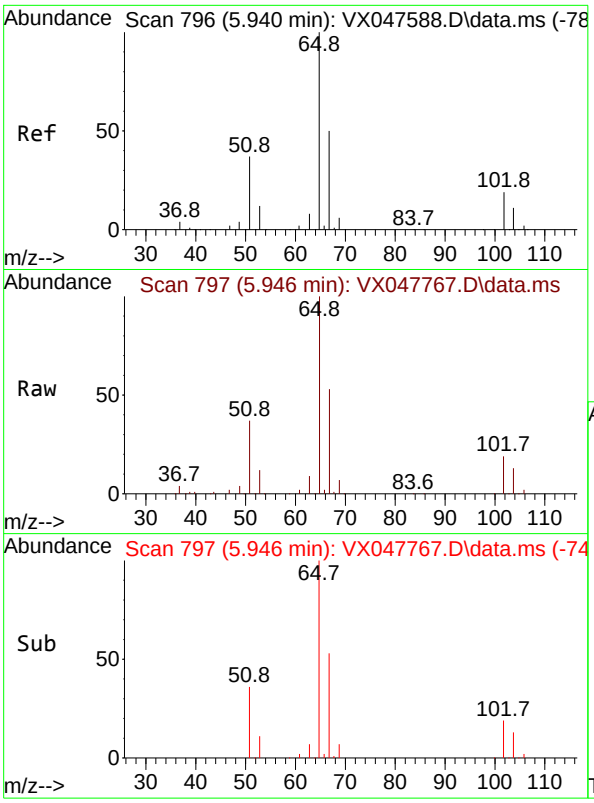


#32
1,1,1-Trichloroethane
Concen: 52.395 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 97 Resp: 154526

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.6	76.0
61	43.6	35.8	53.8



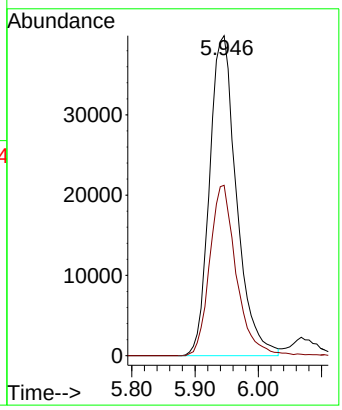


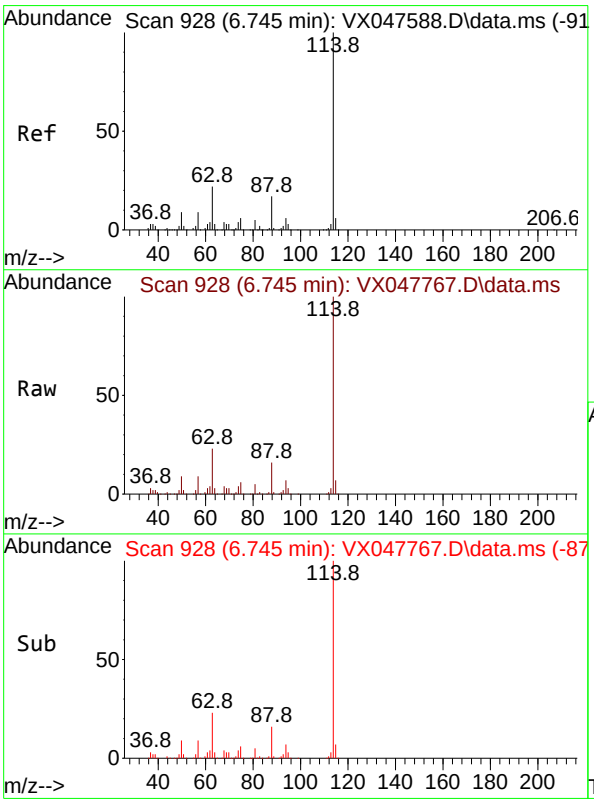
#33
1,2-Dichloroethane-d4
Concen: 54.388 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 117949

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.0

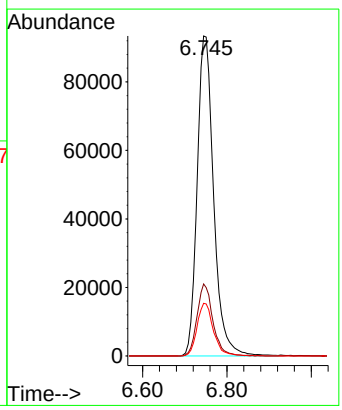


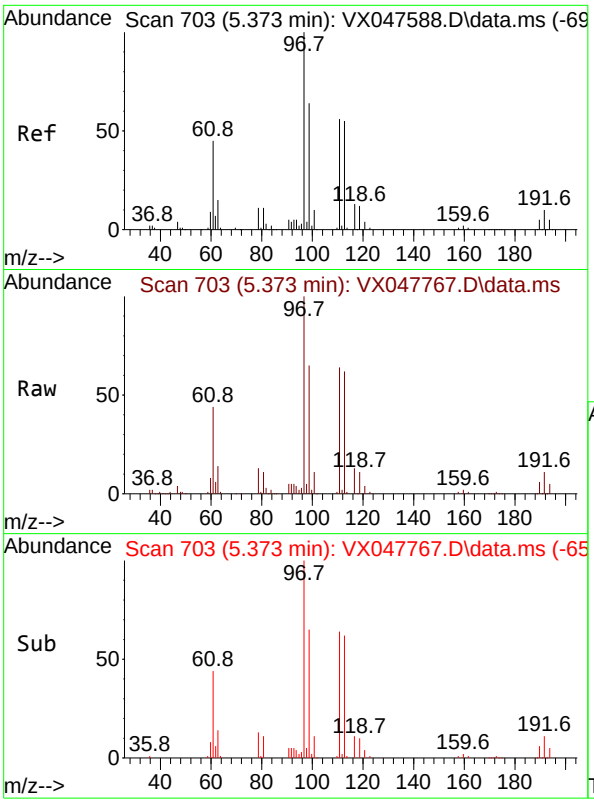


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:114 Resp: 254252

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.5	0.0	34.2



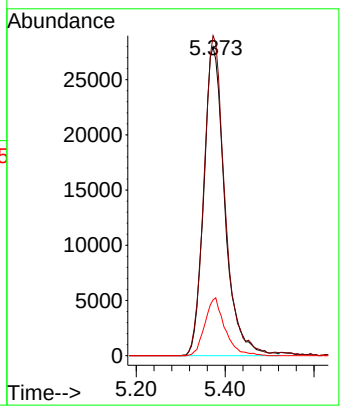


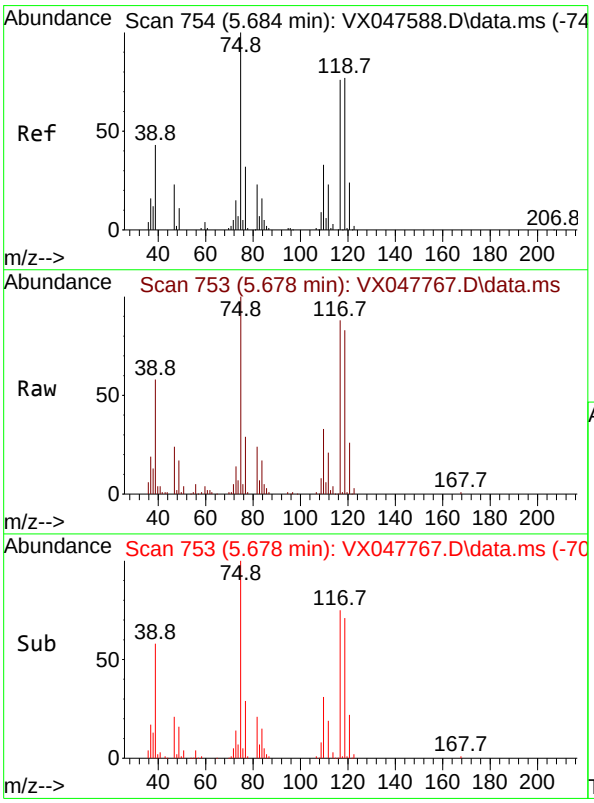
#35
Dibromofluoromethane
Concen: 53.983 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 92049

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	17.8	14.2	21.4

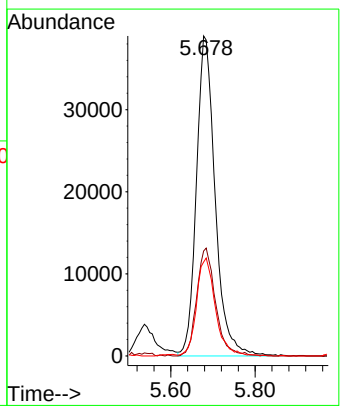


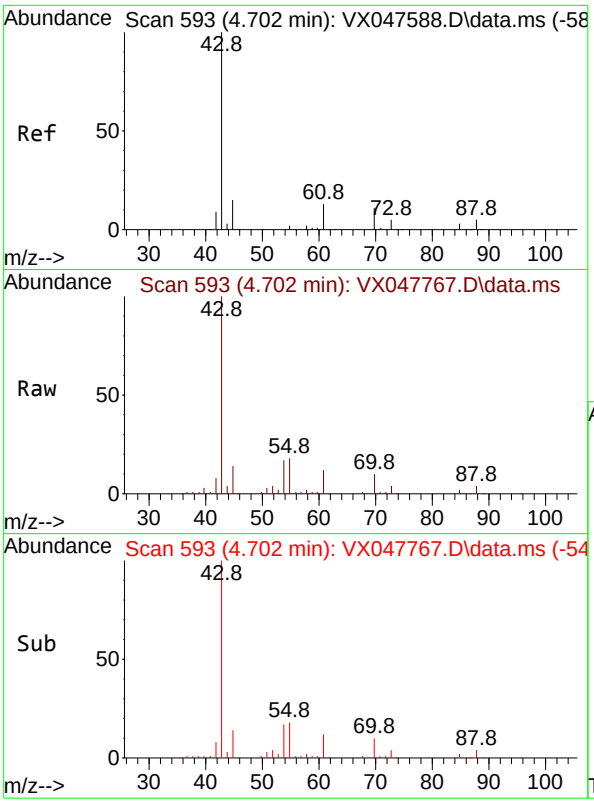


#36
1,1-Dichloropropene
Concen: 48.437 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 120688

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.7	50.1
77	30.0	24.3	36.5



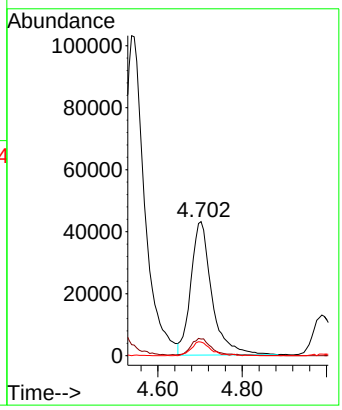


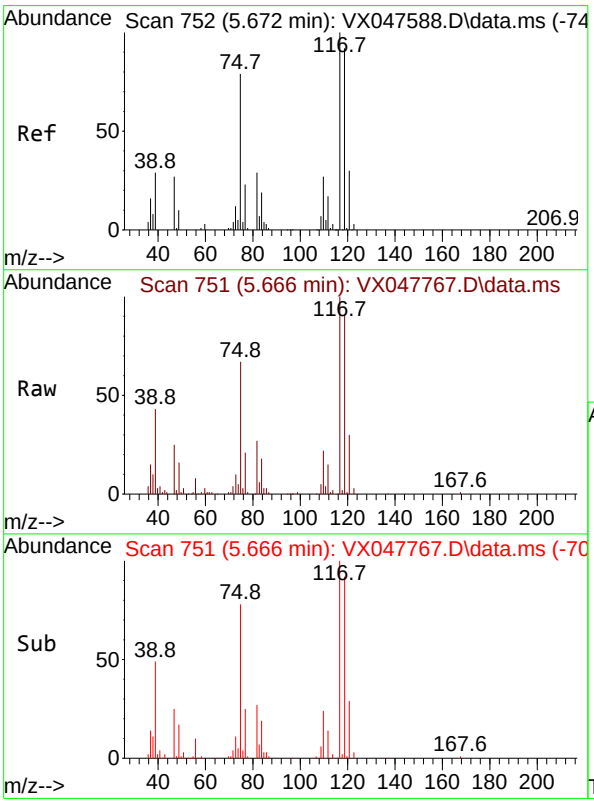
#37
Ethyl Acetate
Concen: 55.869 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 149048

Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	9.4	7.9	11.9

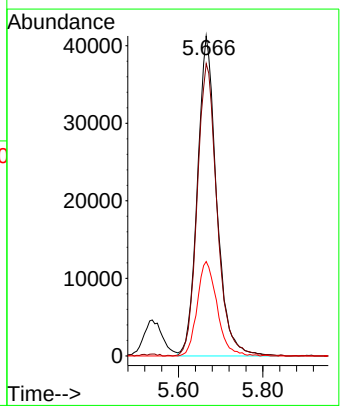


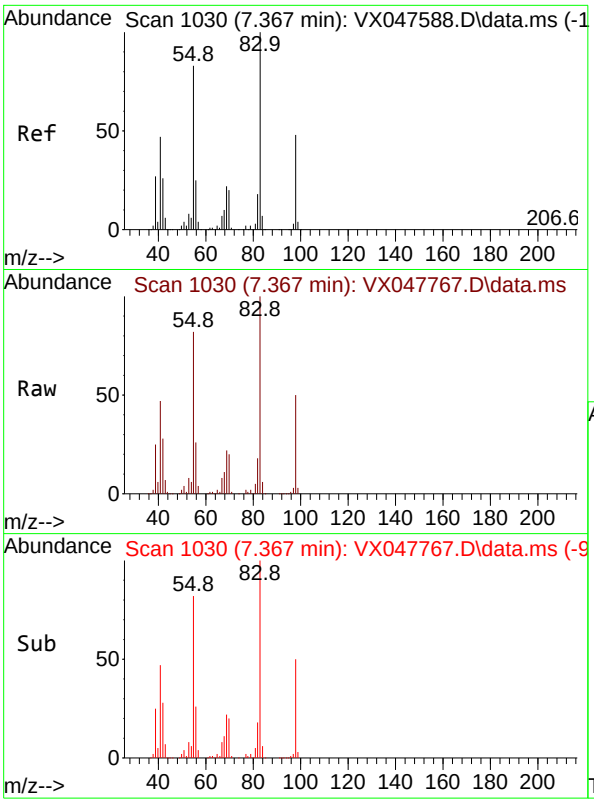


#38
Carbon Tetrachloride
Concen: 48.322 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 130818

Ion	Ratio	Lower	Upper
117	100		
119	91.2	73.4	110.2
121	29.5	23.8	35.6



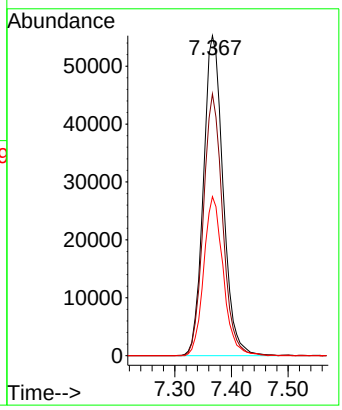


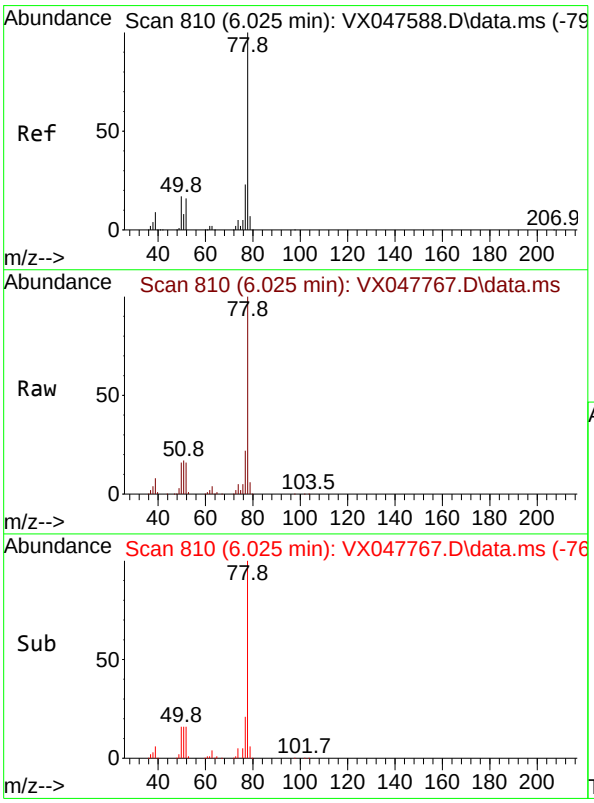
#39
Methylcyclohexane
Concen: 47.171 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 133414

Ion	Ratio	Lower	Upper
83	100		
55	81.7	66.4	99.6
98	49.7	38.1	57.1

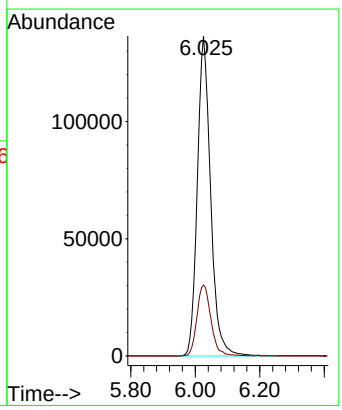


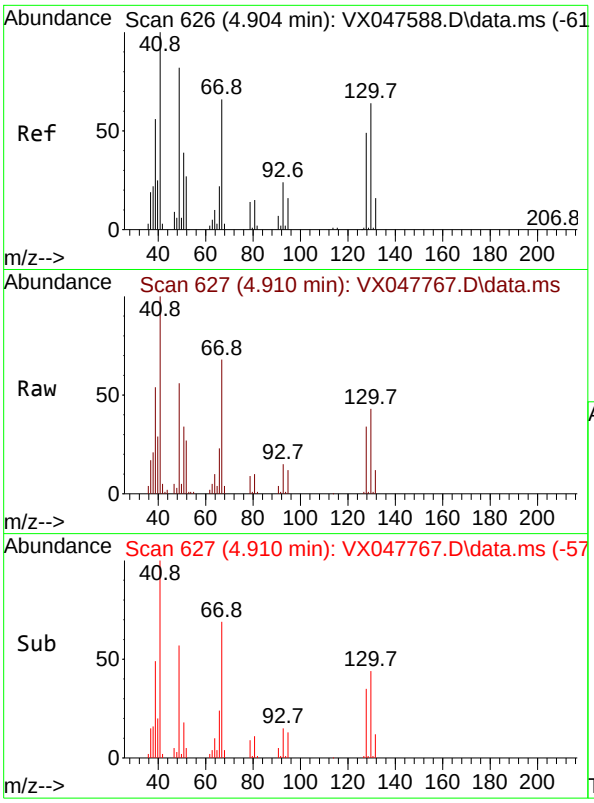


#40
Benzene
Concen: 51.523 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 78 Resp: 389912

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.8	28.2



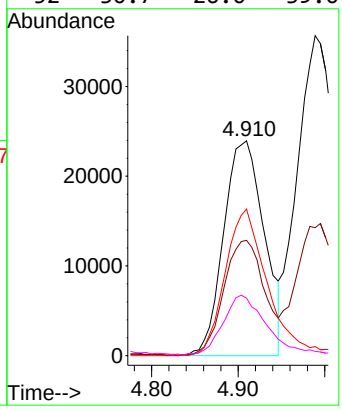


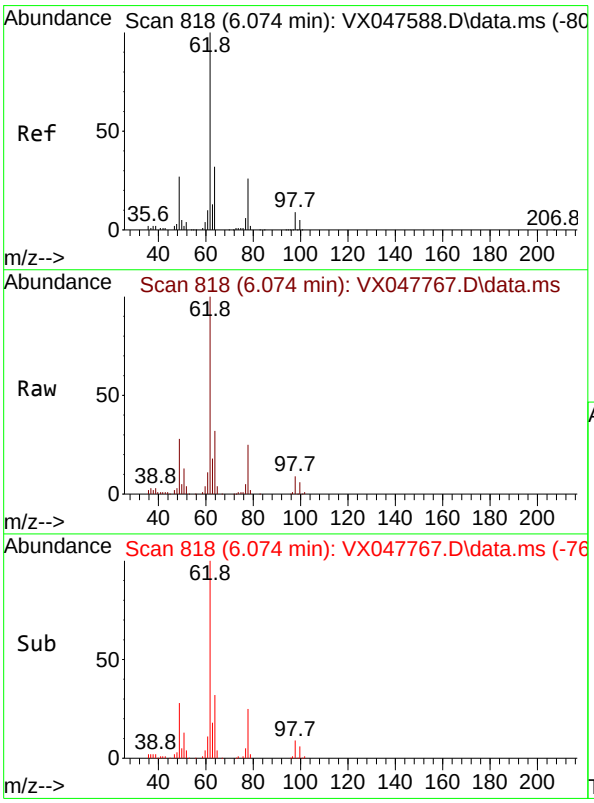
#41
Methacrylonitrile
Concen: 56.618 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 77979

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	73.2	58.6	87.8
52	30.7	26.0	39.0

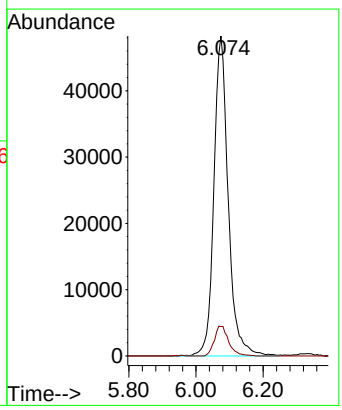


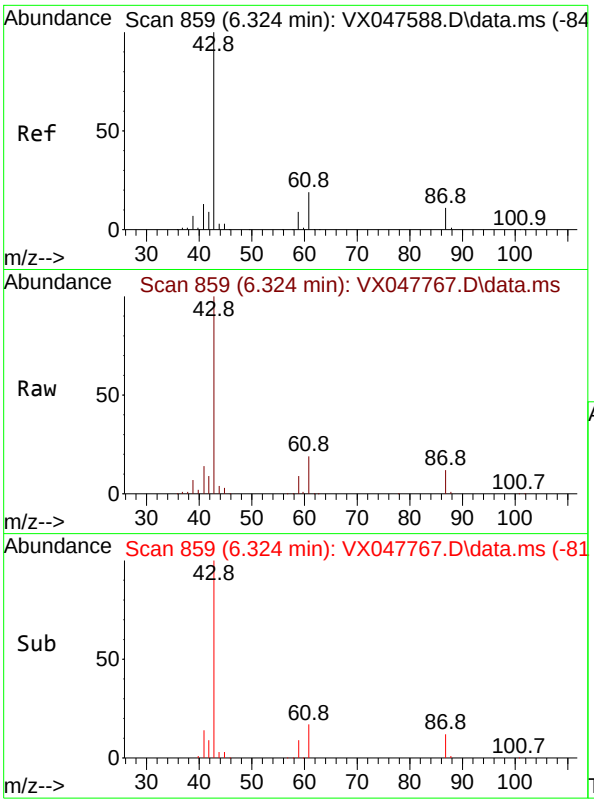


#42
1,2-Dichloroethane
Concen: 49.663 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 143000

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0



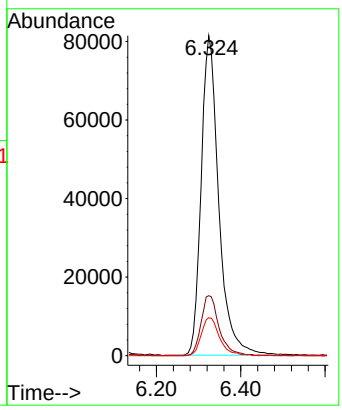


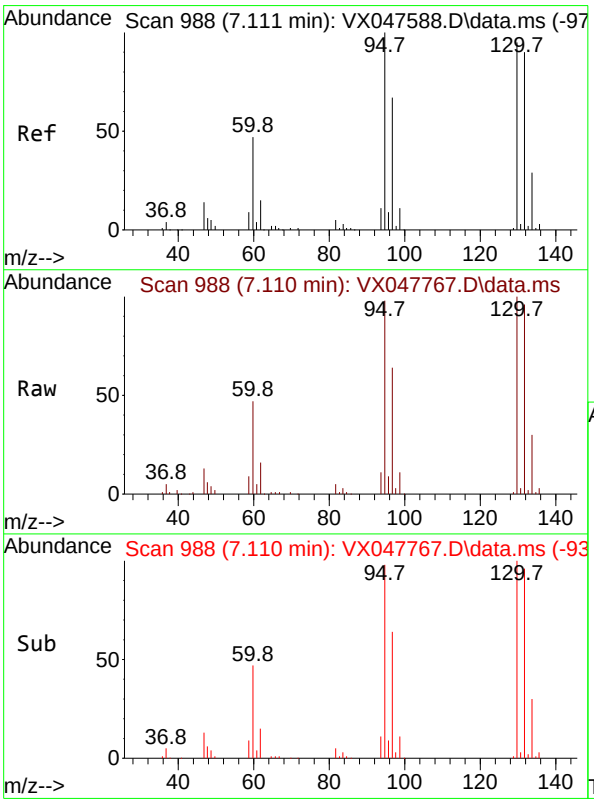
#43
Isopropyl Acetate
Concen: 53.933 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 235980

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.4	9.6	14.4

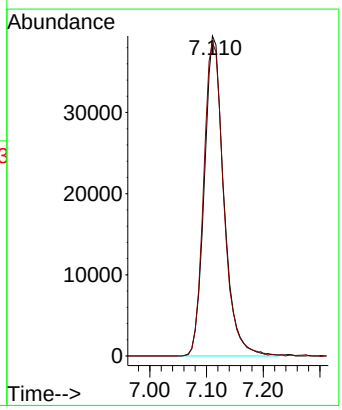


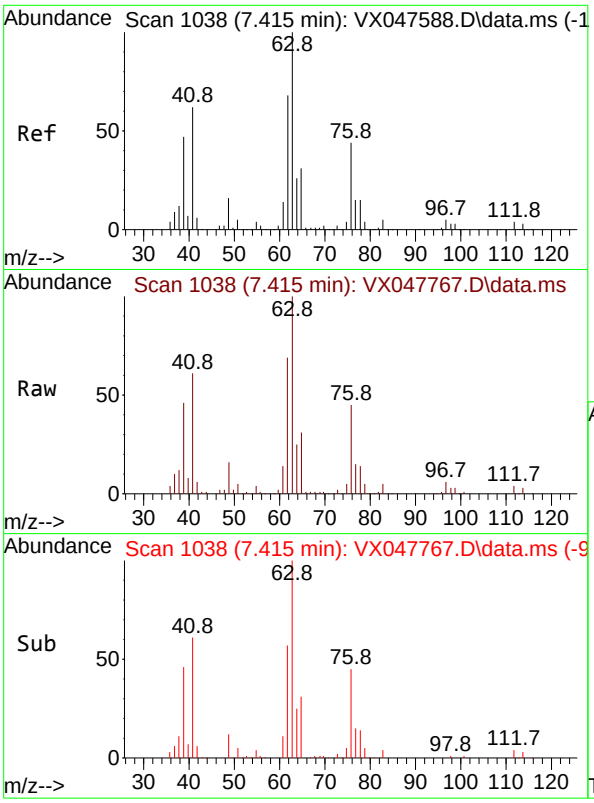


#44
Trichloroethene
Concen: 51.488 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:130 Resp: 94203

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	210.8



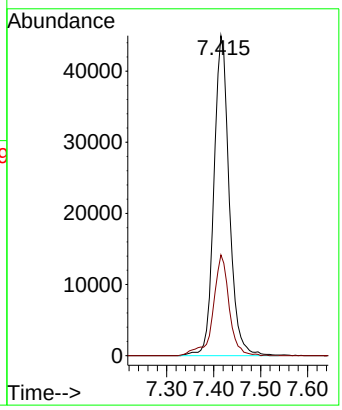


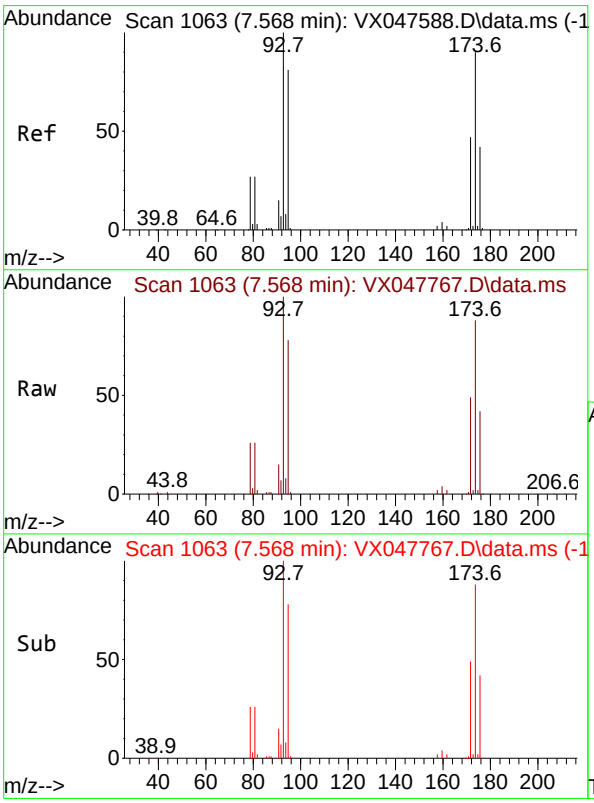
#45
1,2-Dichloropropane
Concen: 52.653 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 102032

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

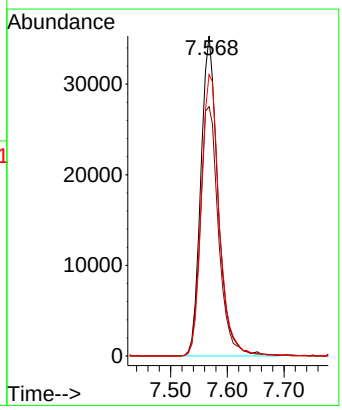


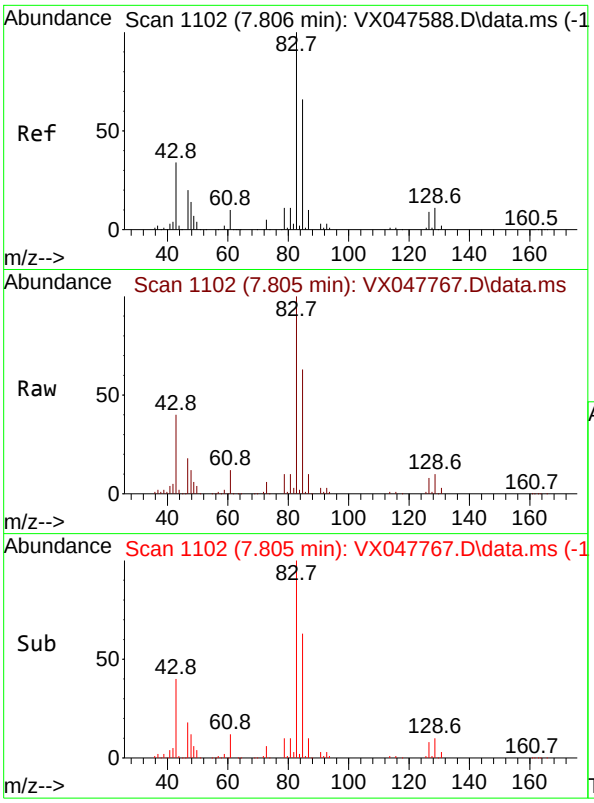


#46
Dibromomethane
Concen: 52.881 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 93 Resp: 74570

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.5	71.6	107.4



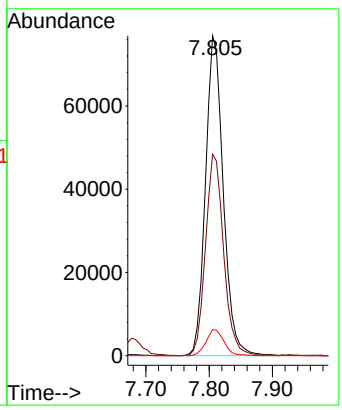


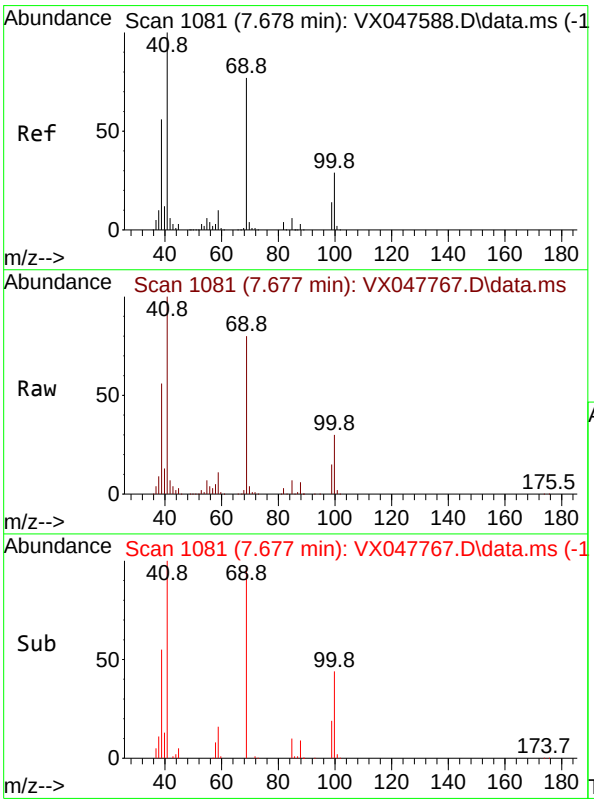
#47
Bromodichloromethane
Concen: 51.676 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 150372

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.5	78.7
127	8.2	6.9	10.3

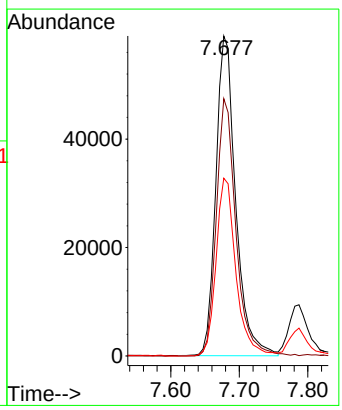


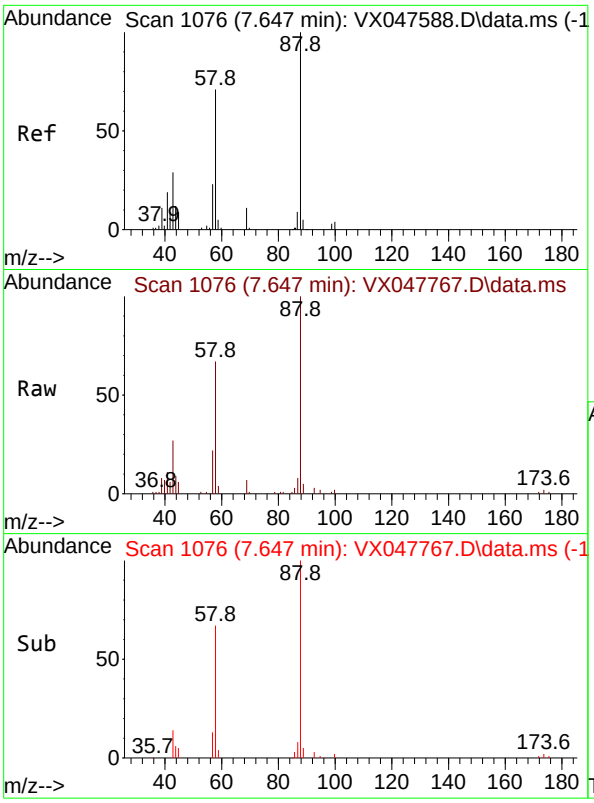


#48
Methyl methacrylate
Concen: 54.378 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 118513

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	55.7	45.8	68.6



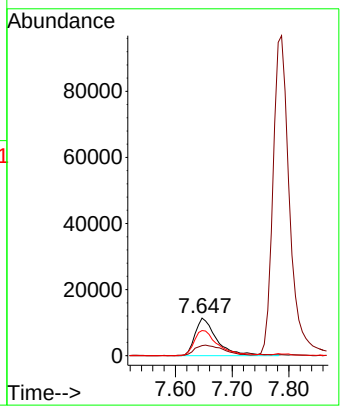


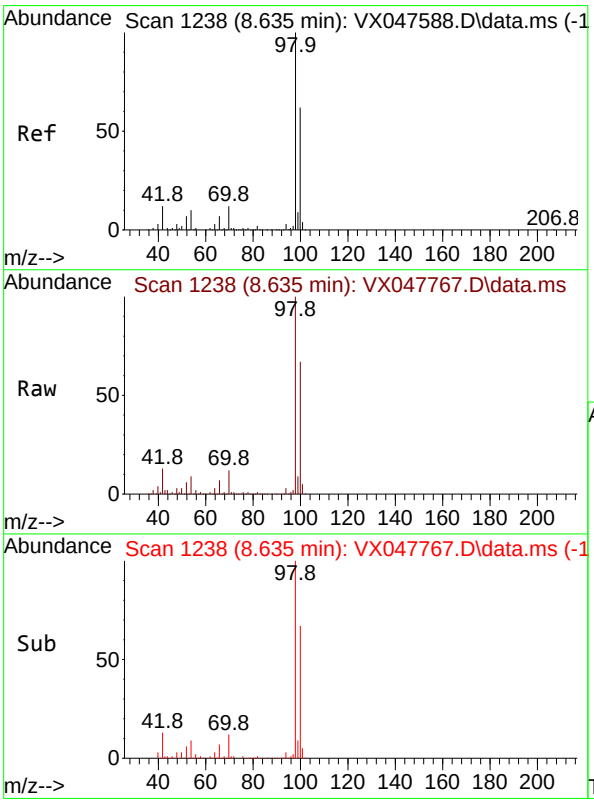
#49
1,4-Dioxane
Concen: 1379.627 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 30387

Ion	Ratio	Lower	Upper
88	100		
43	37.6	30.2	45.2
58	73.0	59.5	89.3

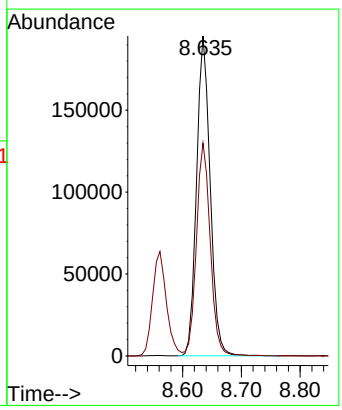


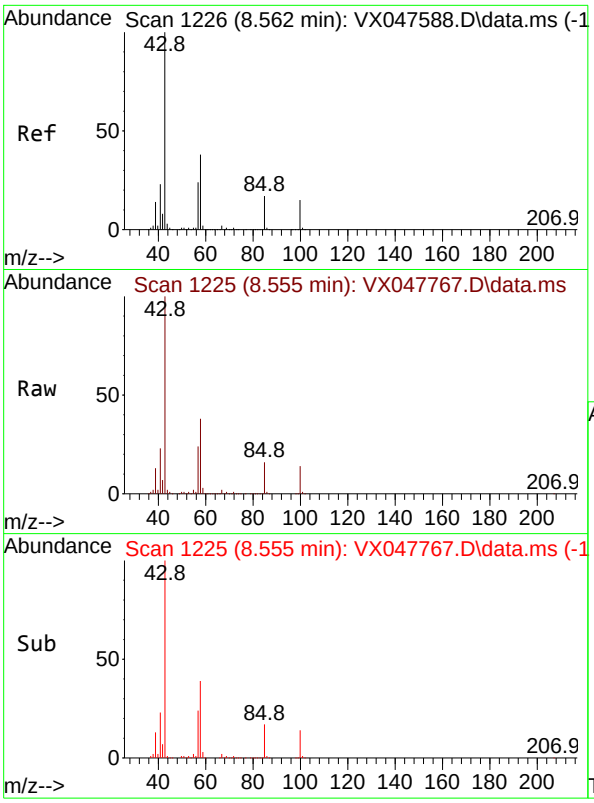


#50
Toluene-d8
Concen: 53.290 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 98 Resp: 314422

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



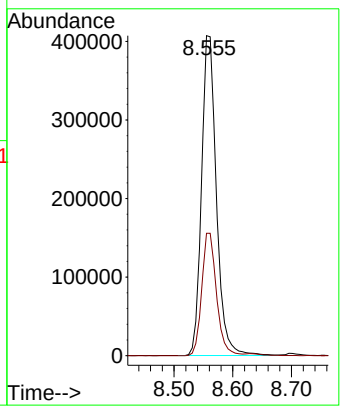


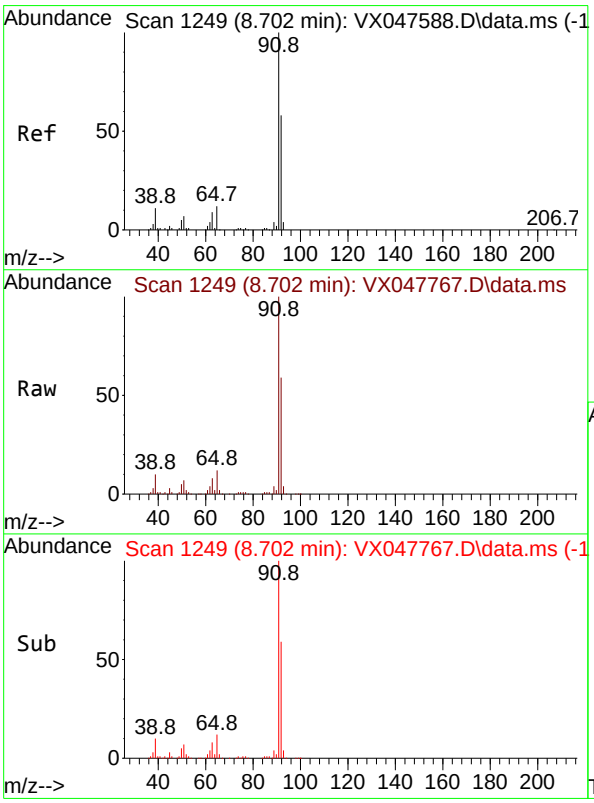
#51
4-Methyl-2-Pentanone
Concen: 296.207 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 718573

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

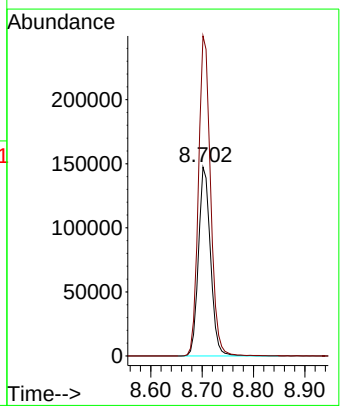


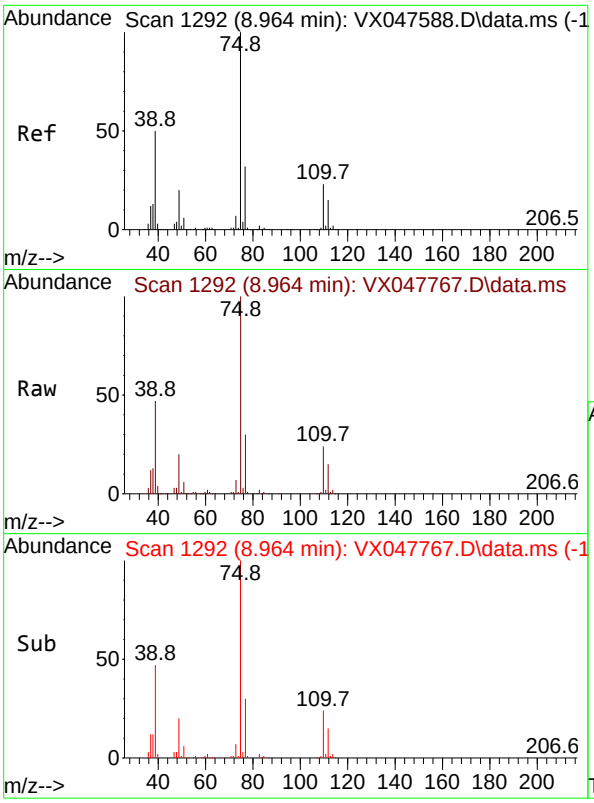


#52
Toluene
Concen: 51.397 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 92 Resp: 239637

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7



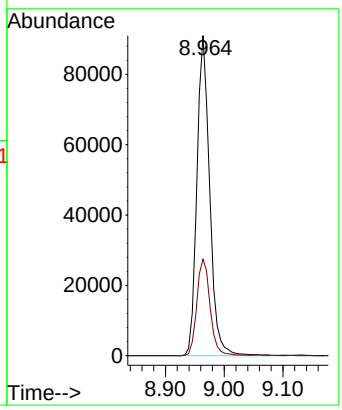


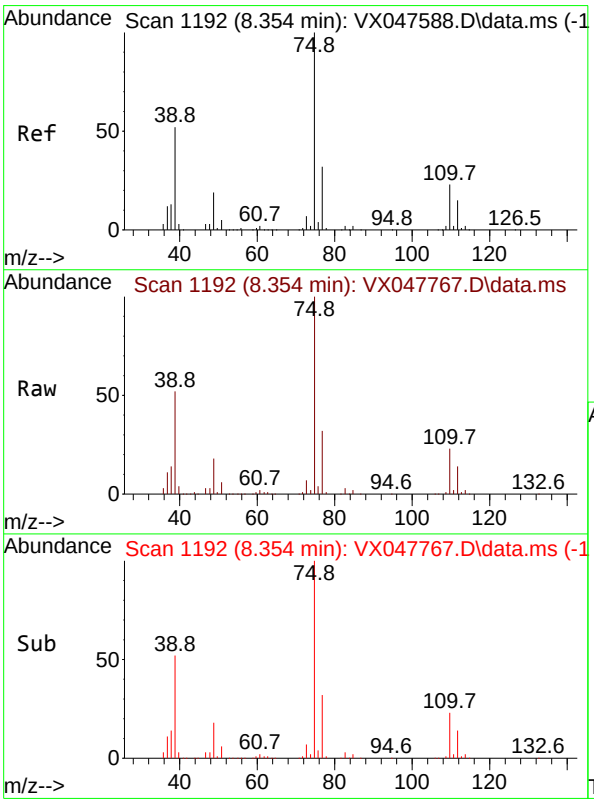
#53
t-1,3-Dichloropropene
Concen: 46.292 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 137402

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2

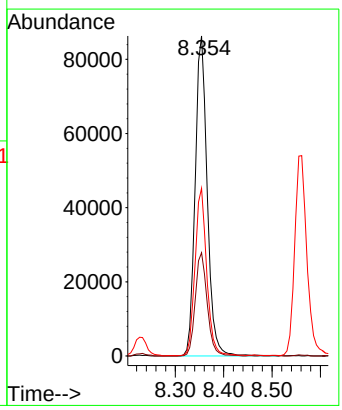


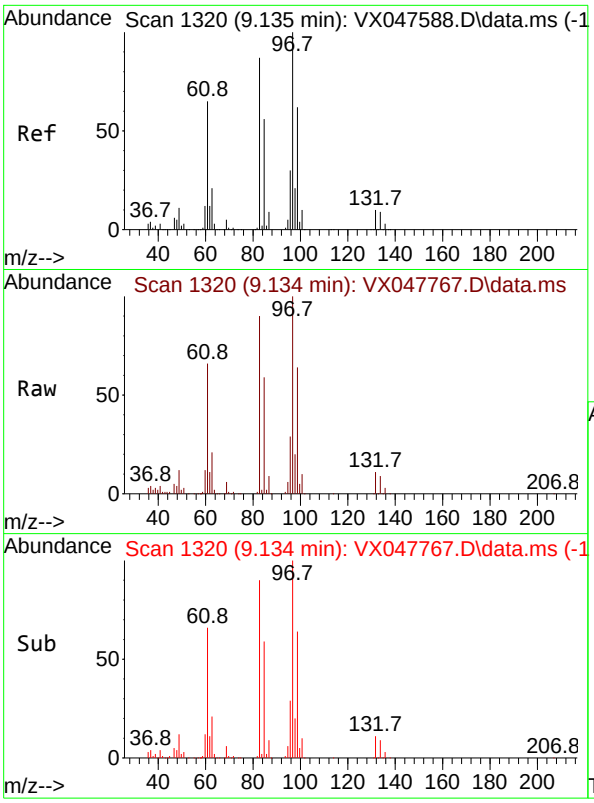


#54
cis-1,3-Dichloropropene
Concen: 47.013 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 149149

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	51.7	41.4	62.2



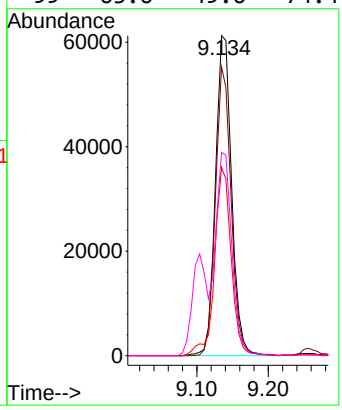


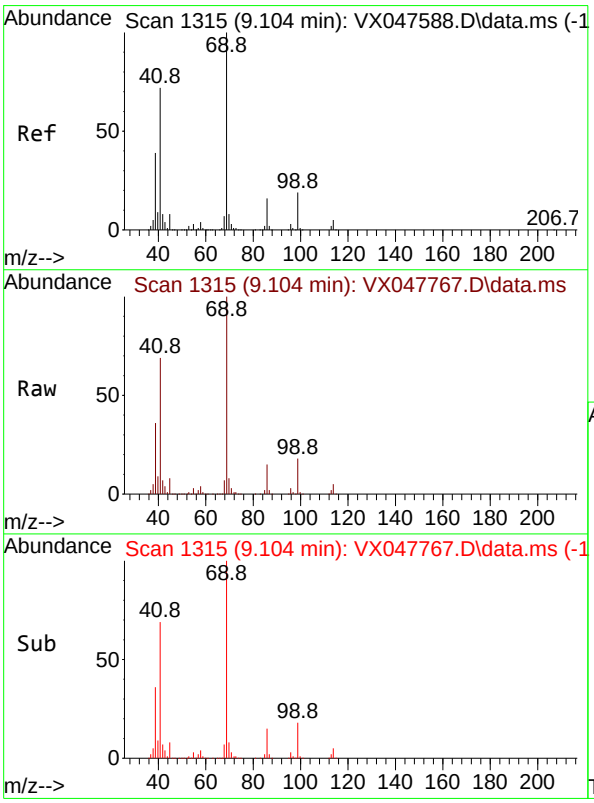
#55
1,1,2-Trichloroethane
Concen: 53.607 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 96376

Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.6	104.4
85	58.8	45.0	67.6
99	63.6	49.6	74.4

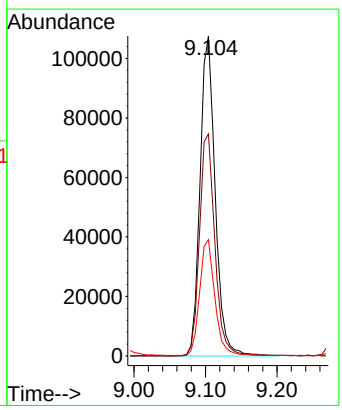


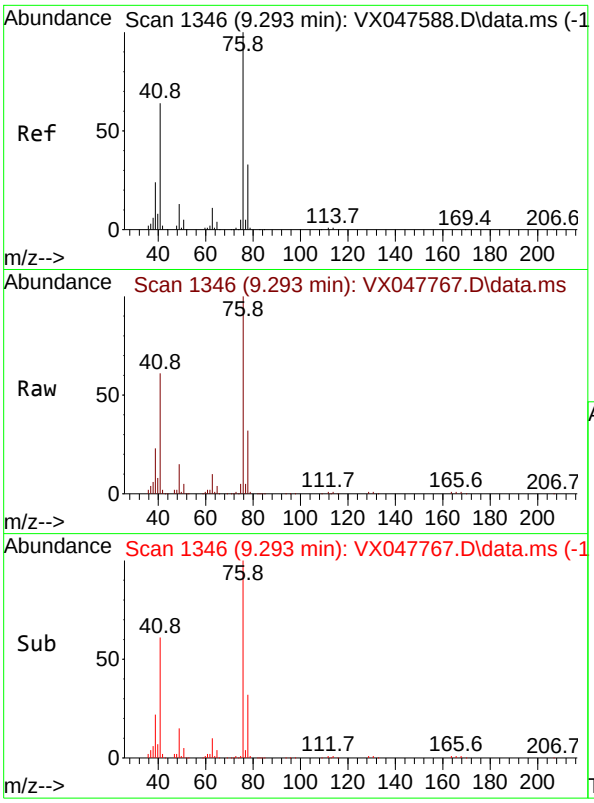


#56
Ethyl methacrylate
Concen: 56.087 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 69 Resp: 158357

Ion	Ratio	Lower	Upper
69	100		
41	70.4	58.6	87.8
39	37.1	31.5	47.3



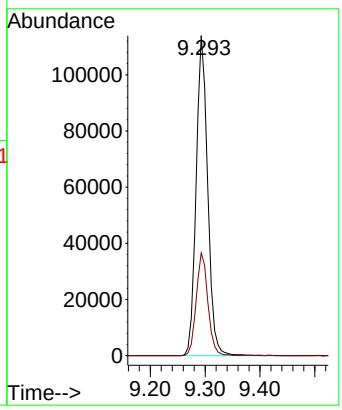


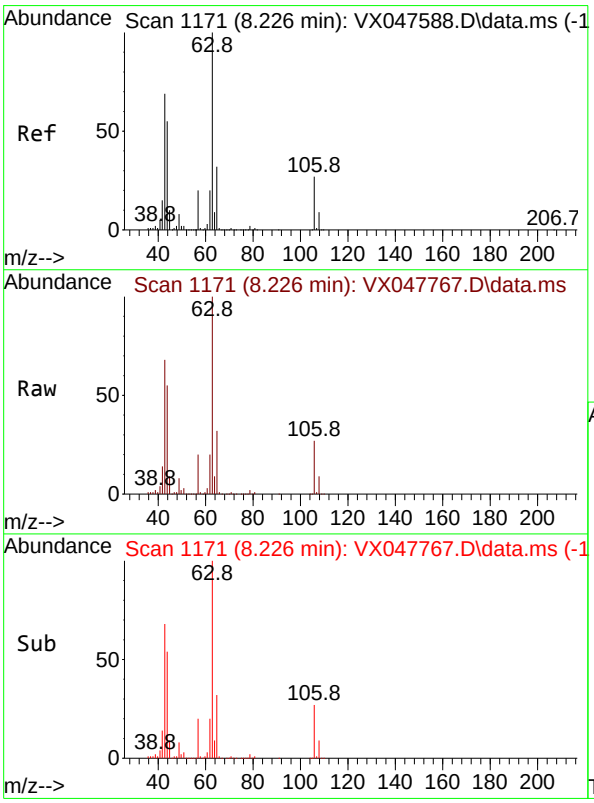
#57
1,3-Dichloropropane
Concen: 54.213 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 167428

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.4

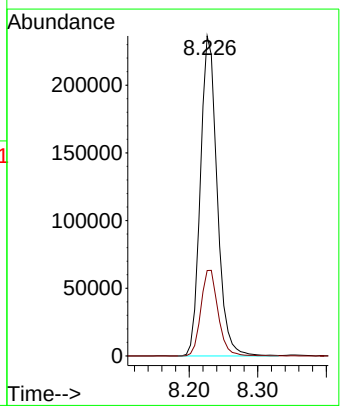


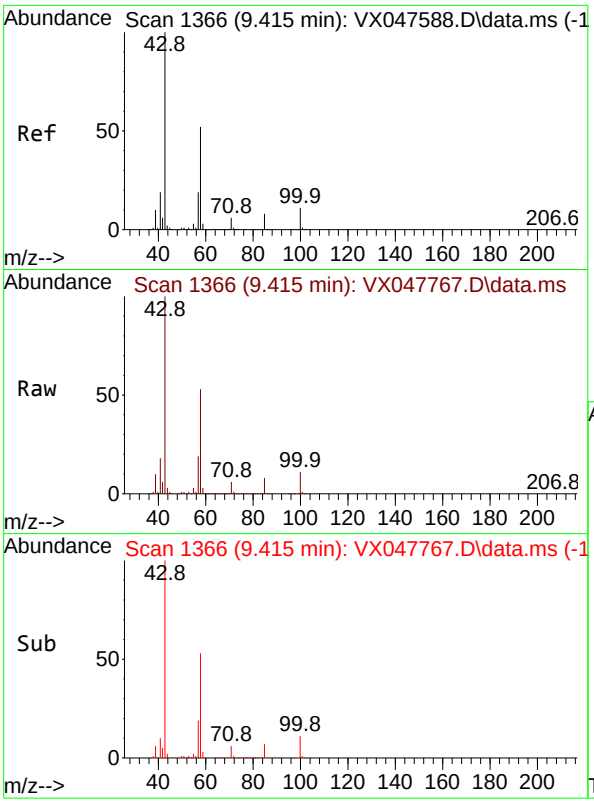


#58
2-Chloroethyl Vinyl ether
Concen: 294.817 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 402380

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



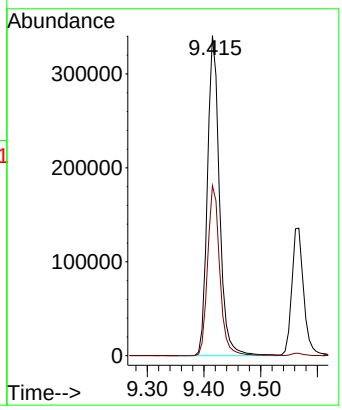


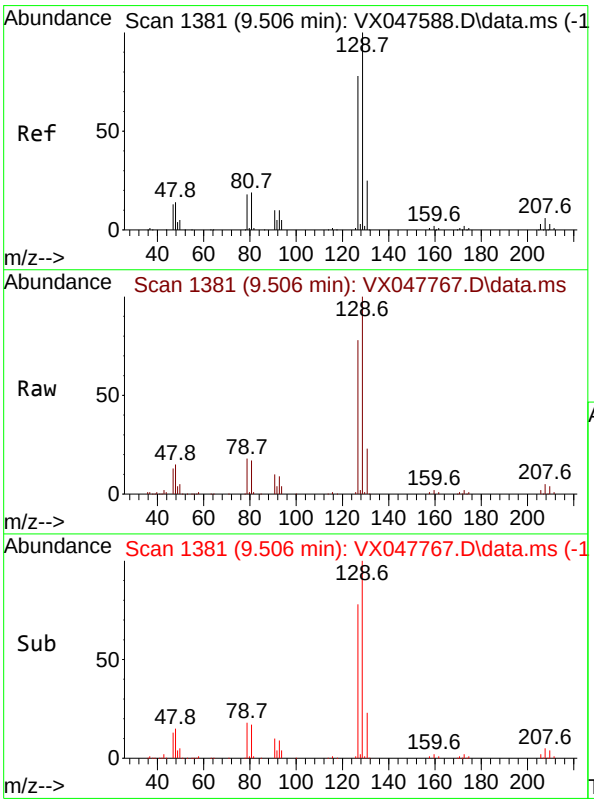
#59
2-Hexanone
Concen: 288.900 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 503351

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.1	78.2

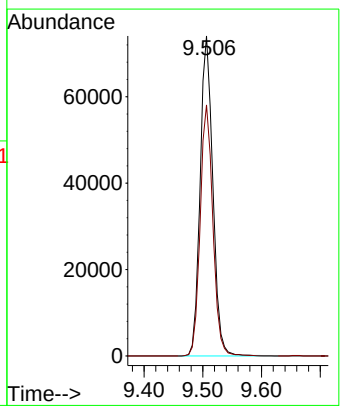


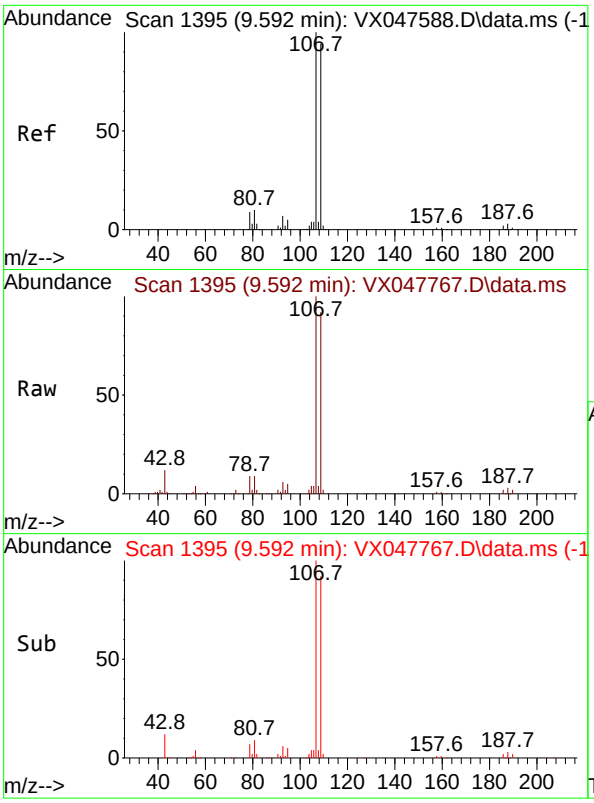


#60
Dibromochloromethane
Concen: 53.612 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:129 Resp: 111057

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.4	115.2



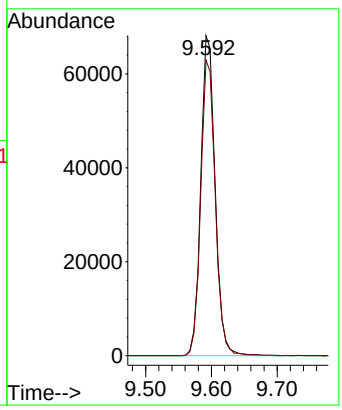


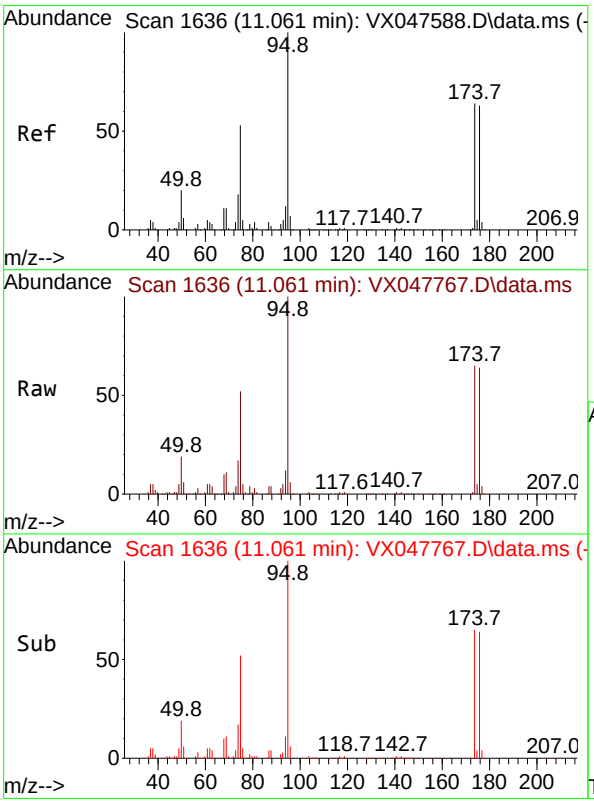
#61
1,2-Dibromoethane
Concen: 56.360 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 103205

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.3	112.9

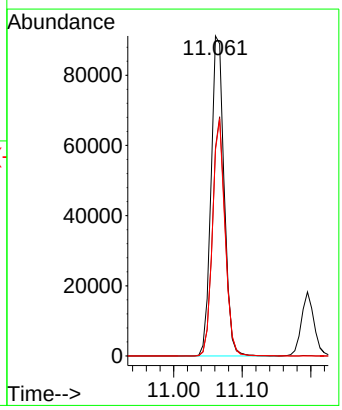


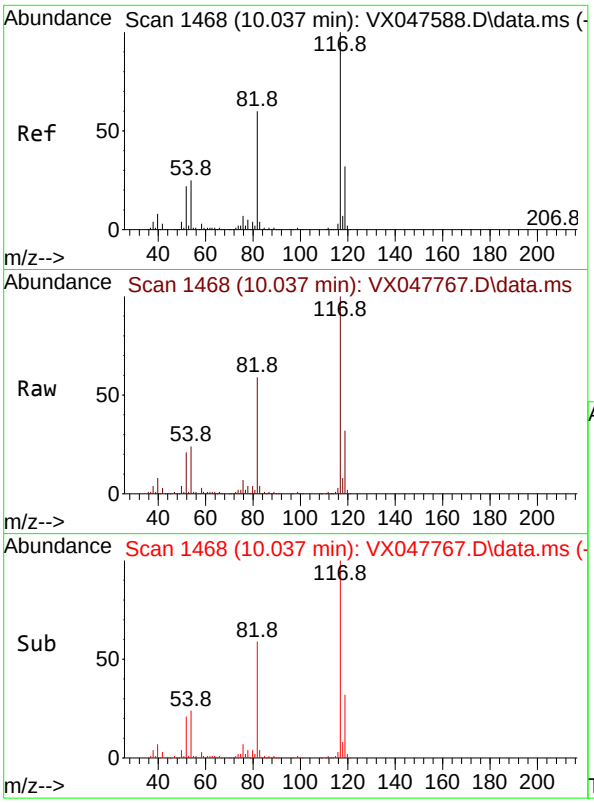


#62
4-Bromofluorobenzene
Concen: 53.949 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 95 Resp: 120804

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	70.6	0.0	138.4



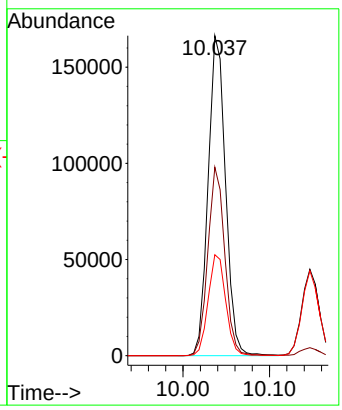


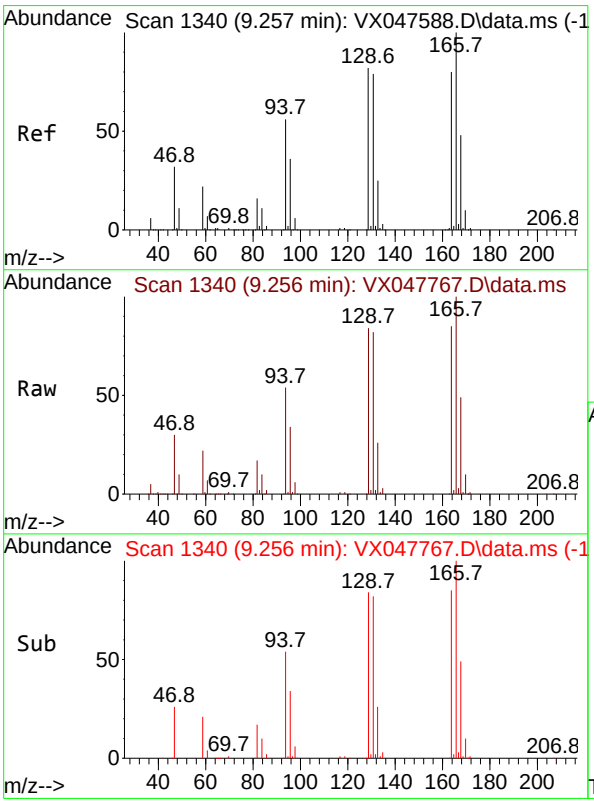
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 232007

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.8	71.6
119	31.5	25.2	37.8

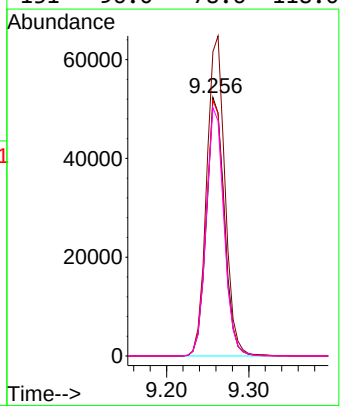


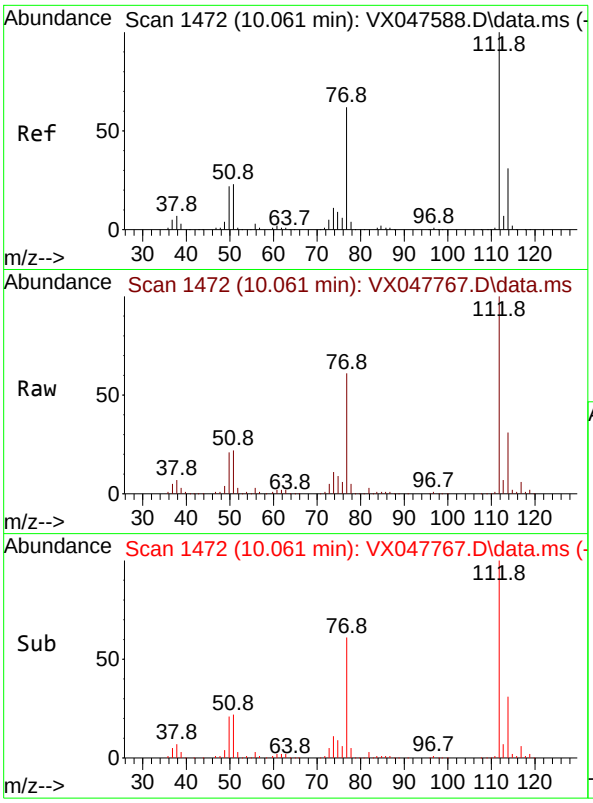


#64
Tetrachloroethene
Concen: 52.130 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:164 Resp: 78844

Ion	Ratio	Lower	Upper
164	100		
166	117.7	100.2	150.2
129	99.0	81.8	122.6
131	96.0	78.6	118.0



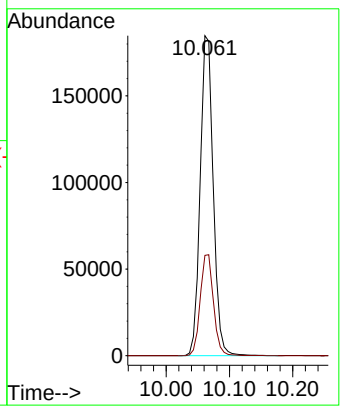


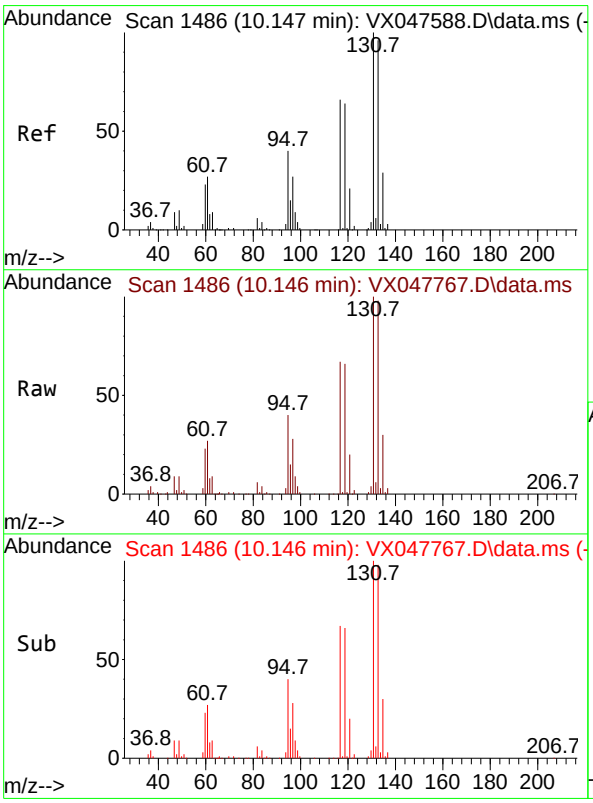
#65
Chlorobenzene
Concen: 50.402 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 265659

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.1	37.7

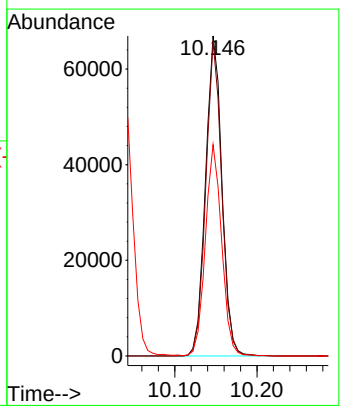


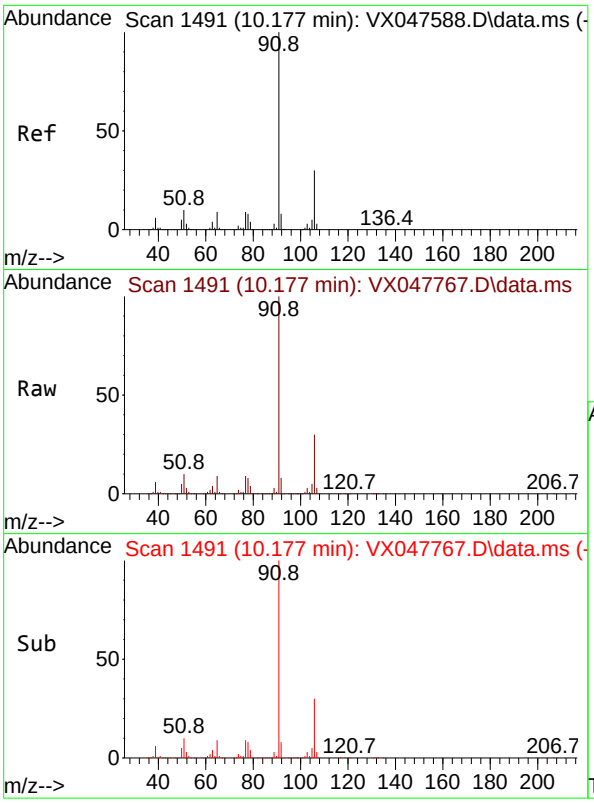


#66
1,1,1,2-Tetrachloroethane
Concen: 51.137 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:131 Resp: 93007

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	142.0
119	65.6	32.0	96.0



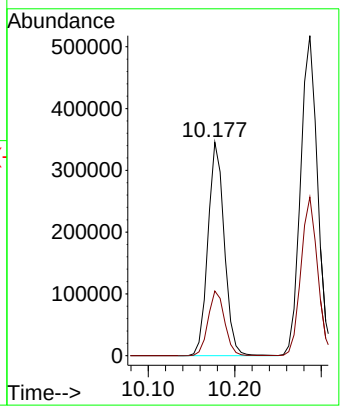


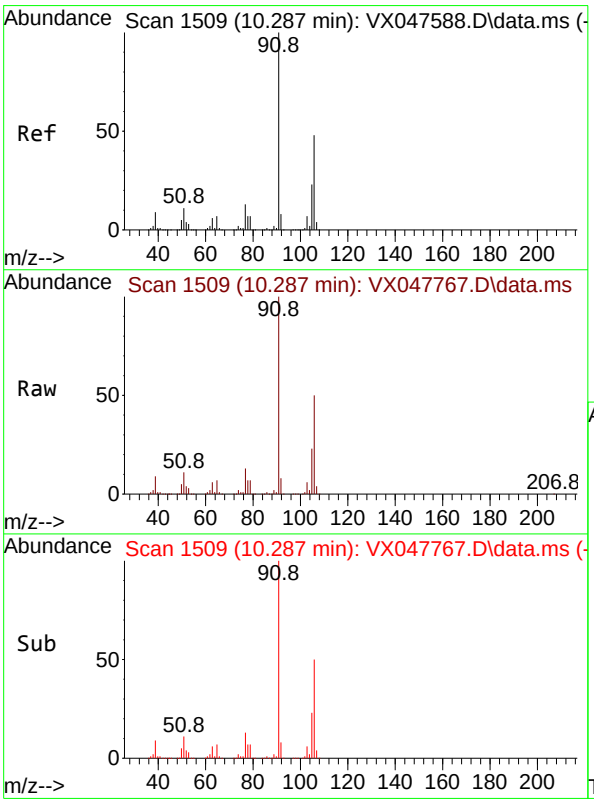
#67
Ethyl Benzene
Concen: 49.712 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 452093

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

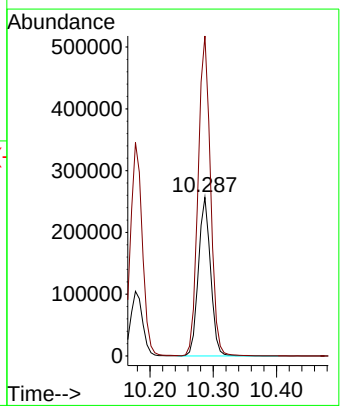


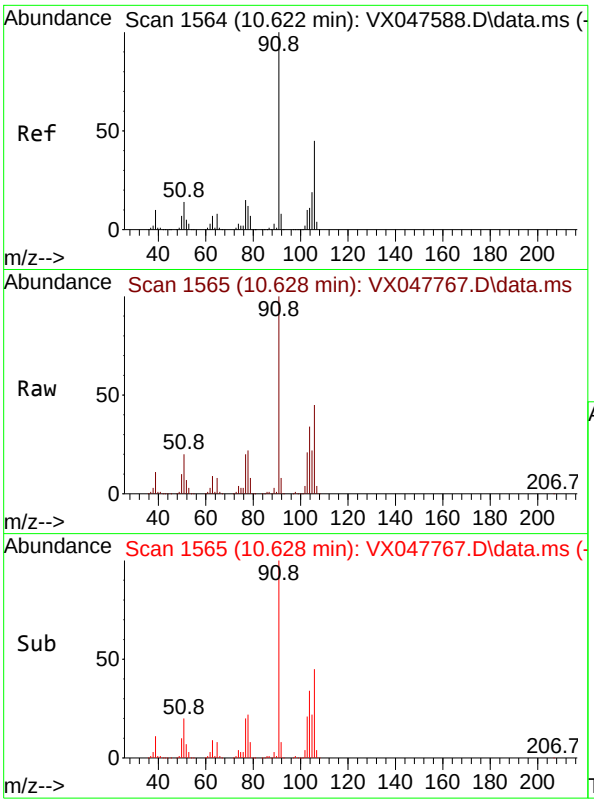


#68
m/p-Xylenes
Concen: 101.520 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:106 Resp: 343642

Ion	Ratio	Lower	Upper
106	100		
91	205.6	167.8	251.8



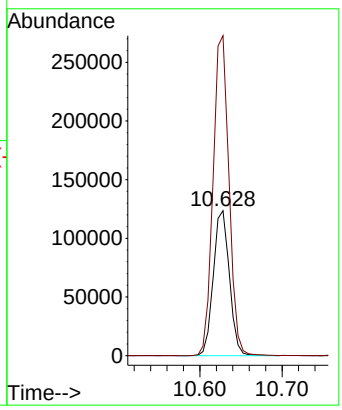


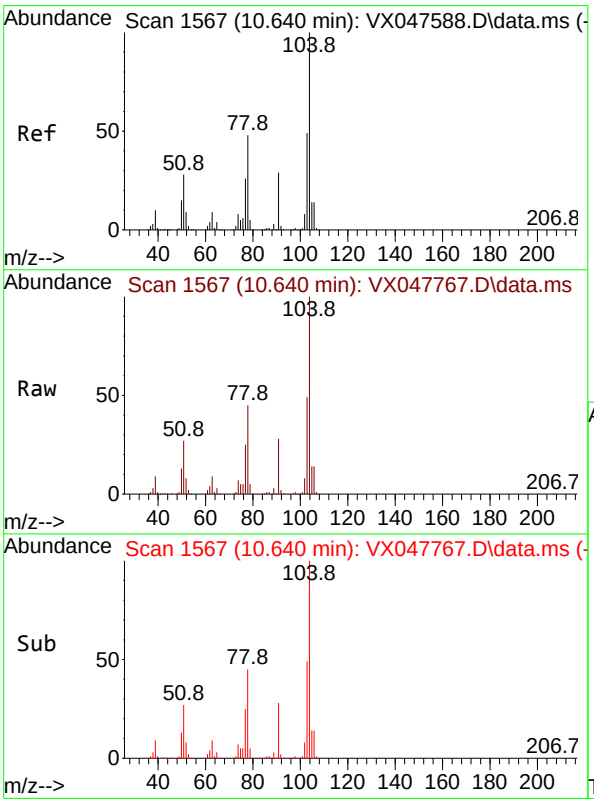
#69
o-Xylene
Concen: 51.290 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 167926

Ion	Ratio	Lower	Upper
106	100		
91	219.1	111.1	333.4

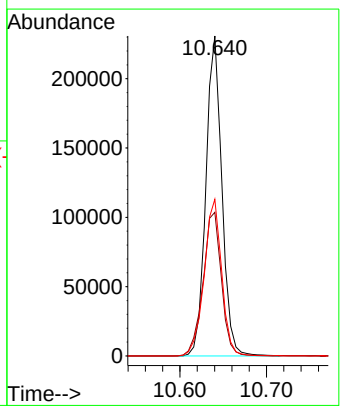


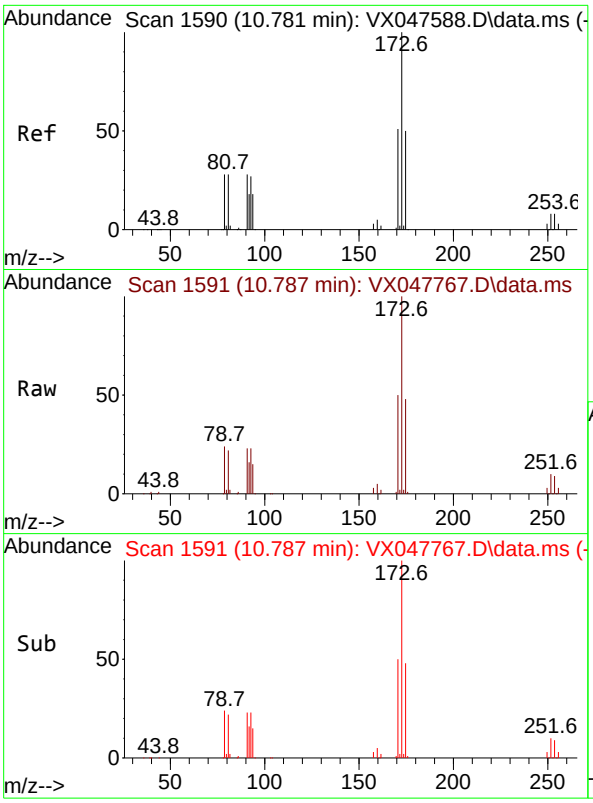


#70
Styrene
Concen: 51.662 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:104 Resp: 296373

Ion	Ratio	Lower	Upper
104	100		
78	51.6	43.1	64.7
103	53.6	43.1	64.7



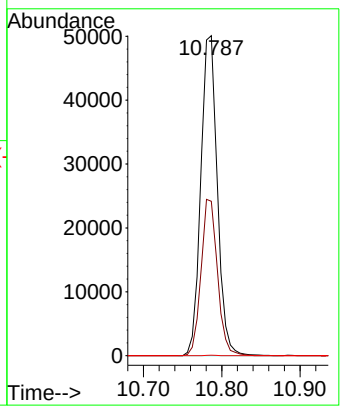


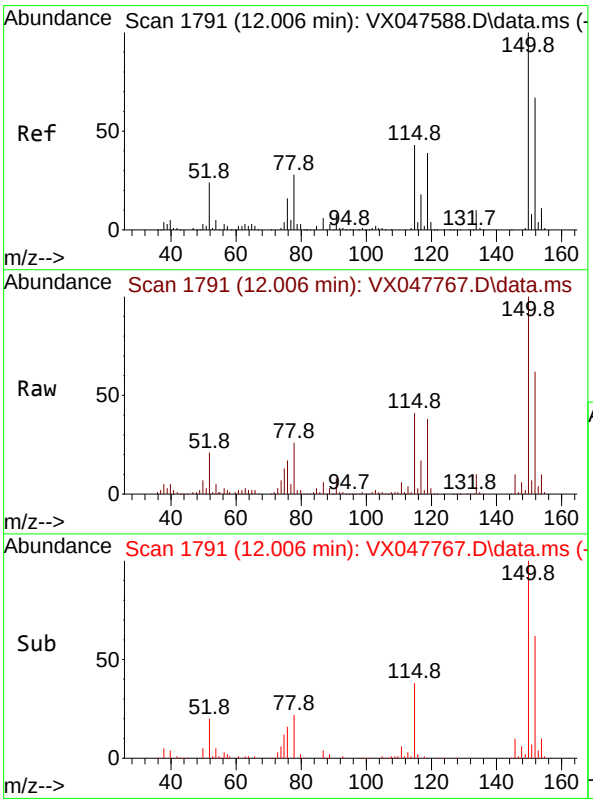
#71
Bromoform
Concen: 53.967 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 73291

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.9	74.6
254	0.1	0.1	0.1

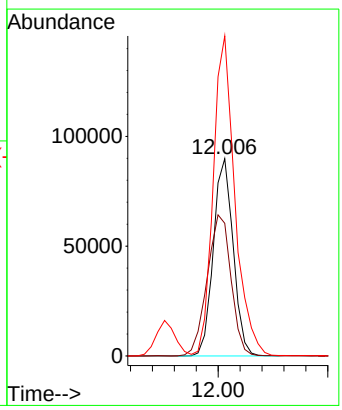


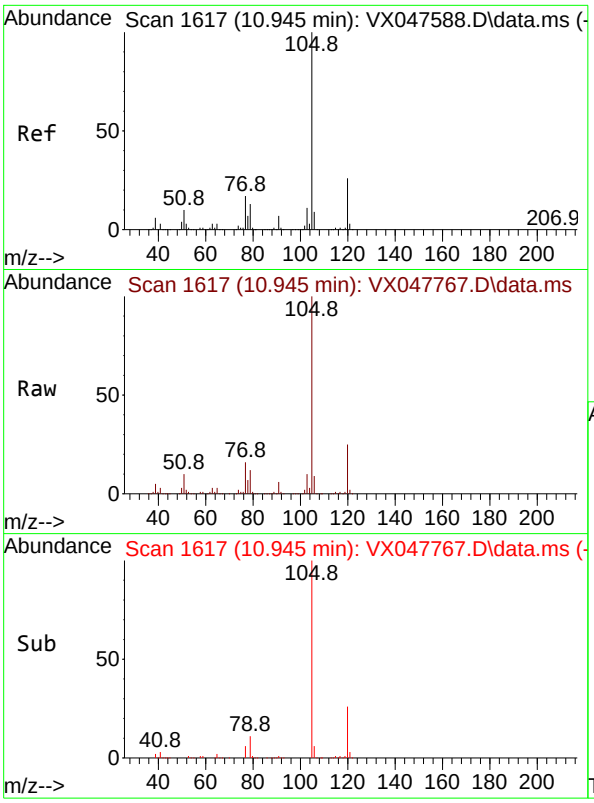


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:152 Resp: 113030

Ion	Ratio	Lower	Upper
152	100		
115	86.3	44.9	134.5
150	177.1	0.0	352.0



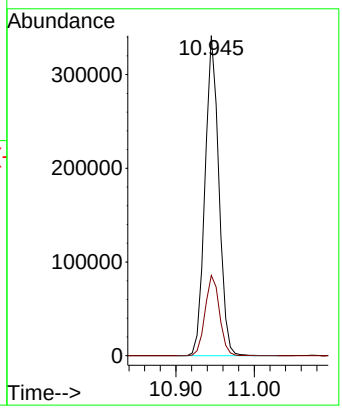


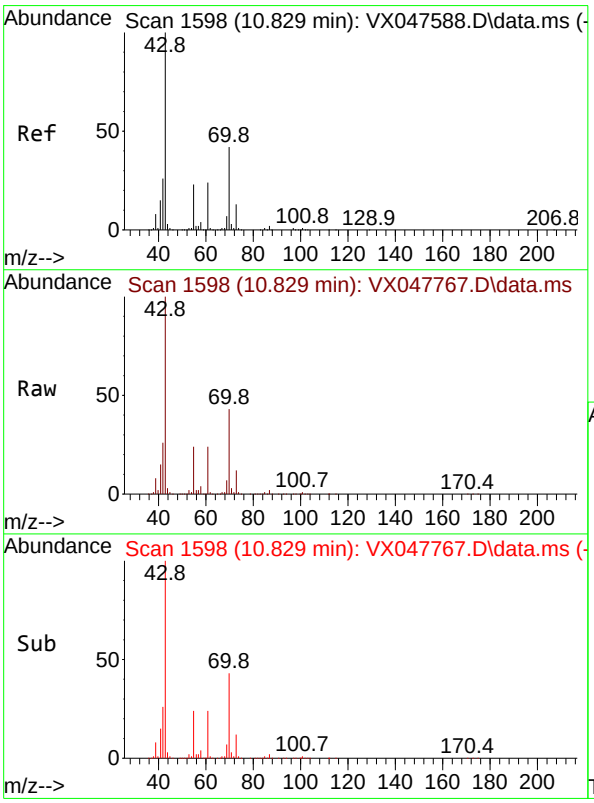
#73
Isopropylbenzene
Concen: 48.594 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 417583

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

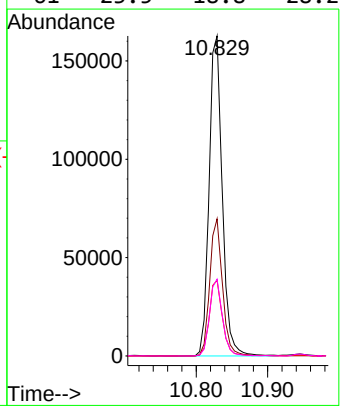


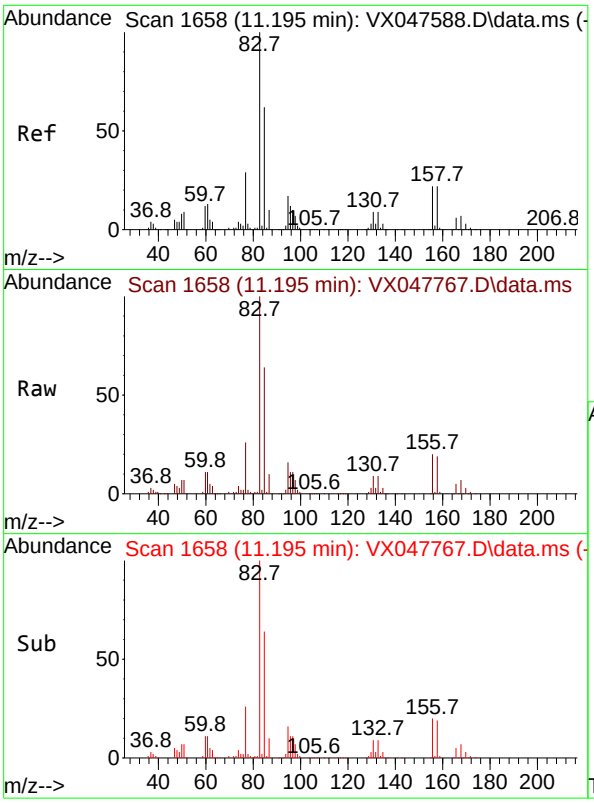


#74
N-amyl acetate
Concen: 53.032 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 207812

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	23.5	18.9	28.3
61	23.5	18.8	28.2



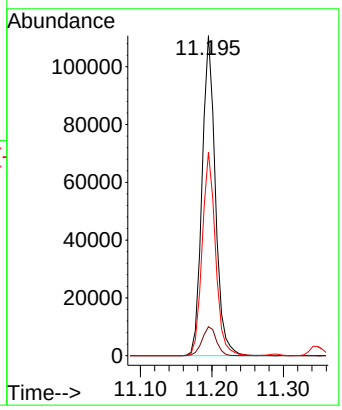


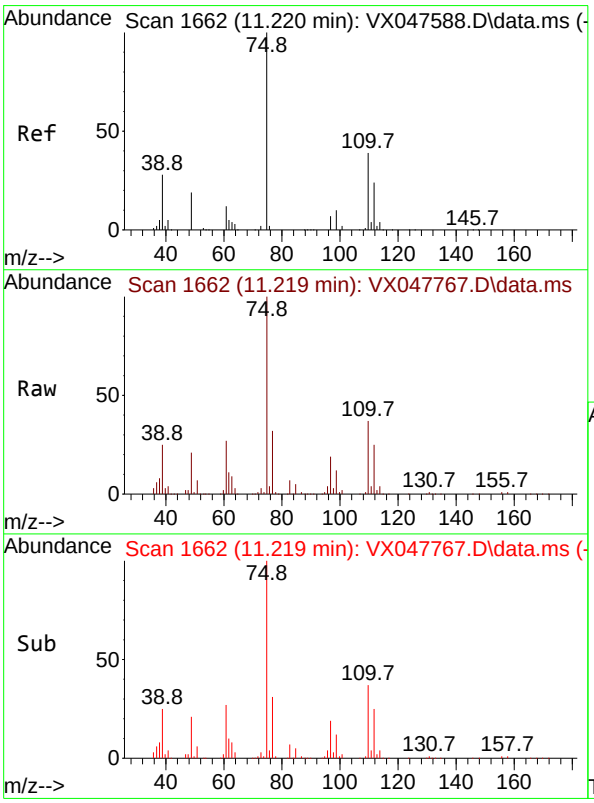
#75
1,1,2,2-Tetrachloroethane
Concen: 54.960 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 142889

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	63.7	31.6	95.0

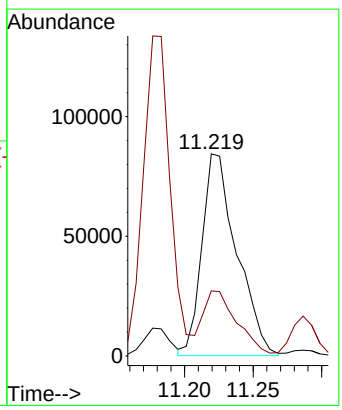


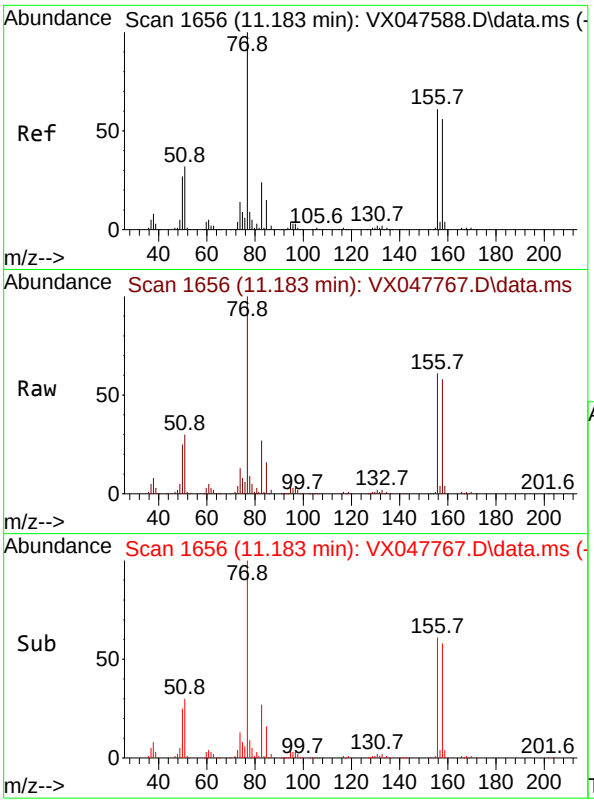


#76
1,2,3-Trichloropropane
Concen: 65.308 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 149457

Ion	Ratio	Lower	Upper
75	100		
77	31.0	18.8	56.4



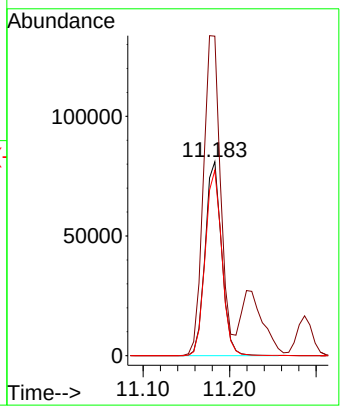


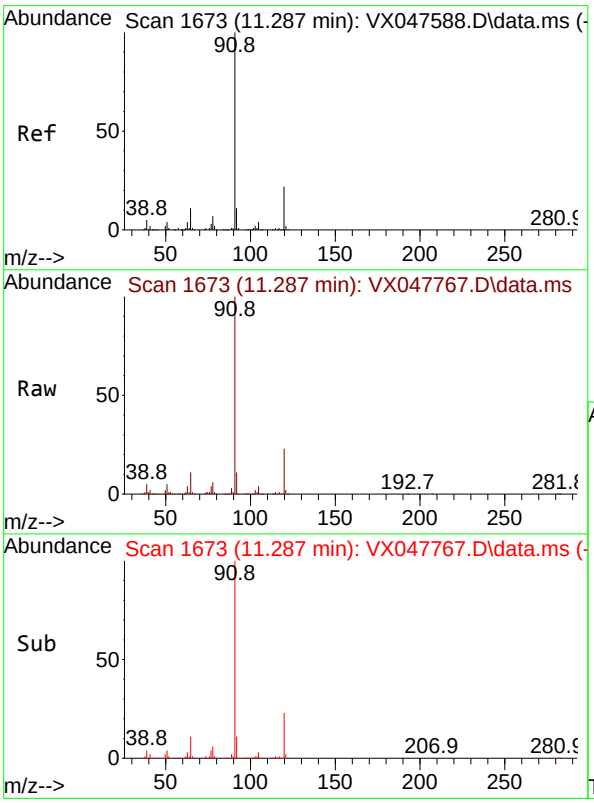
#77
Bromobenzene
Concen: 50.657 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 107213

Ion	Ratio	Lower	Upper
156	100		
77	173.5	89.7	269.1
158	96.2	47.9	143.6

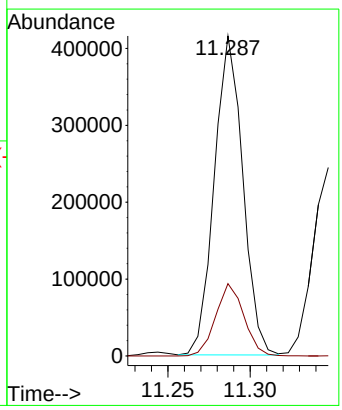


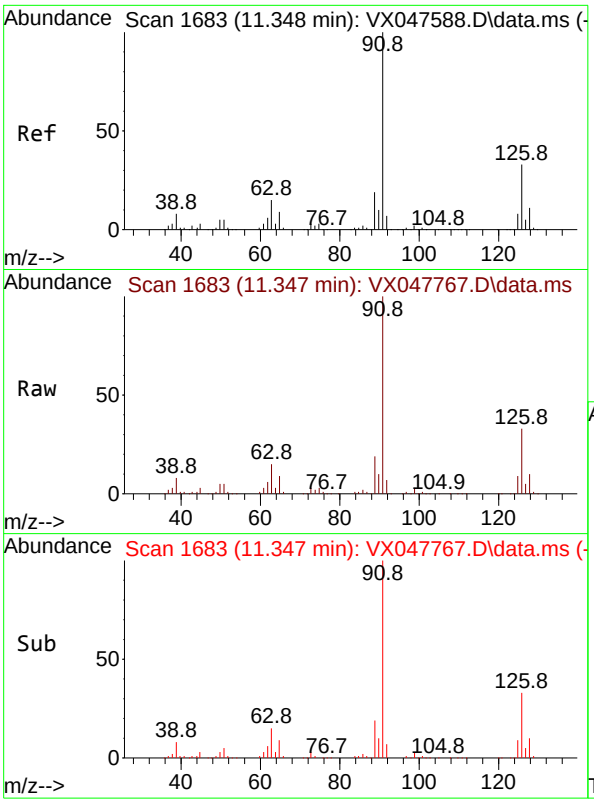


#78
n-propylbenzene
Concen: 49.095 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 498719

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1



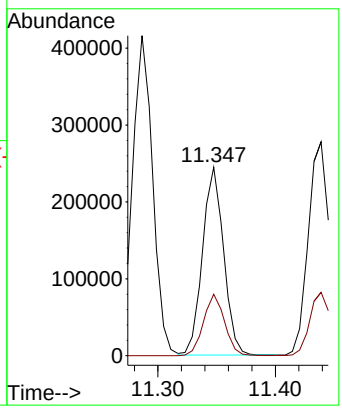


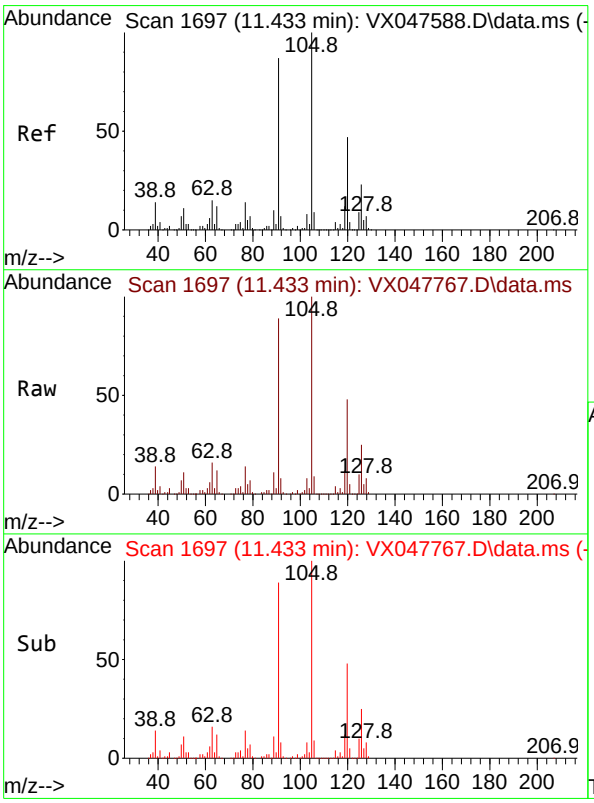
#79
2-Chlorotoluene
Concen: 49.006 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 304904

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

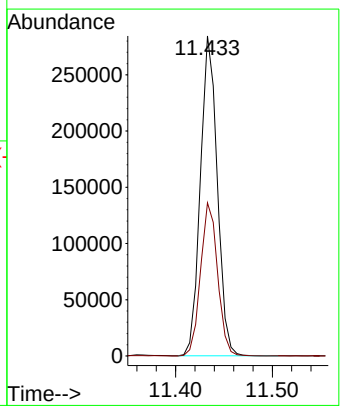


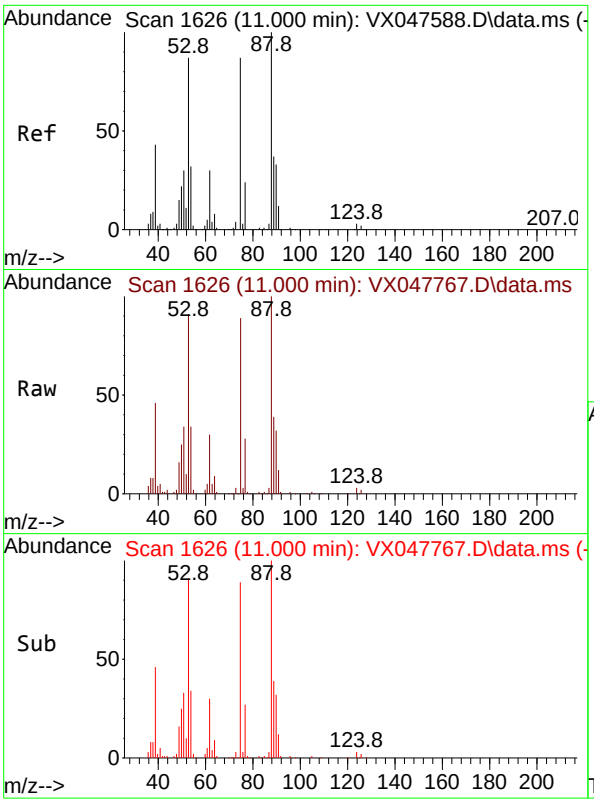


#80
1,3,5-Trimethylbenzene
Concen: 49.006 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 345988

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.6	70.8



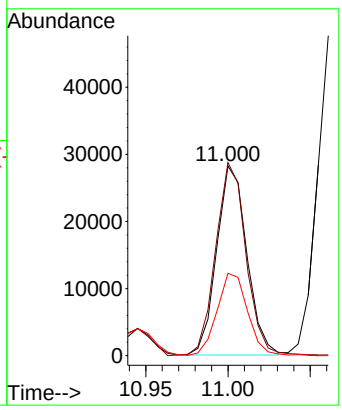


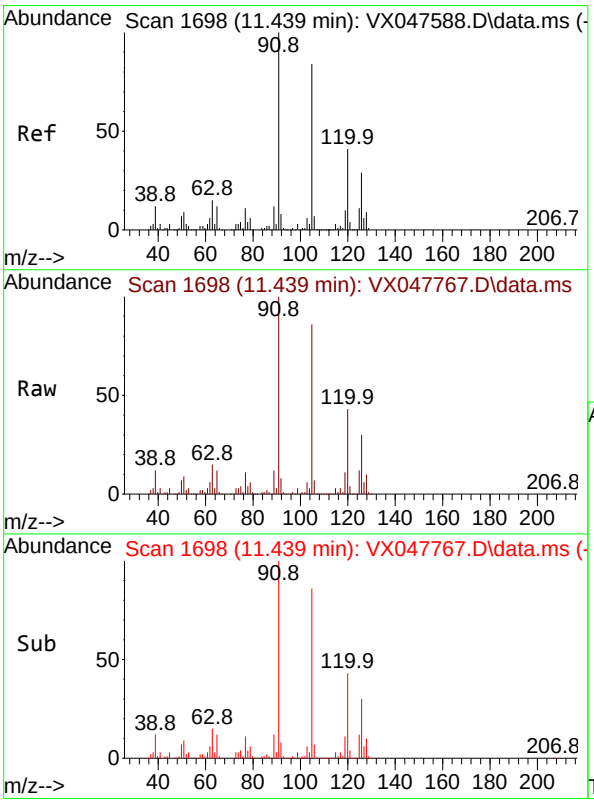
#81
trans-1,4-Dichloro-2-butene
Concen: 40.018 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 35912

Ion	Ratio	Lower	Upper
75	100		
53	102.9	83.4	125.2
89	44.3	36.3	54.5

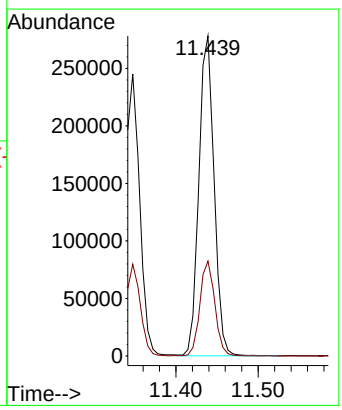


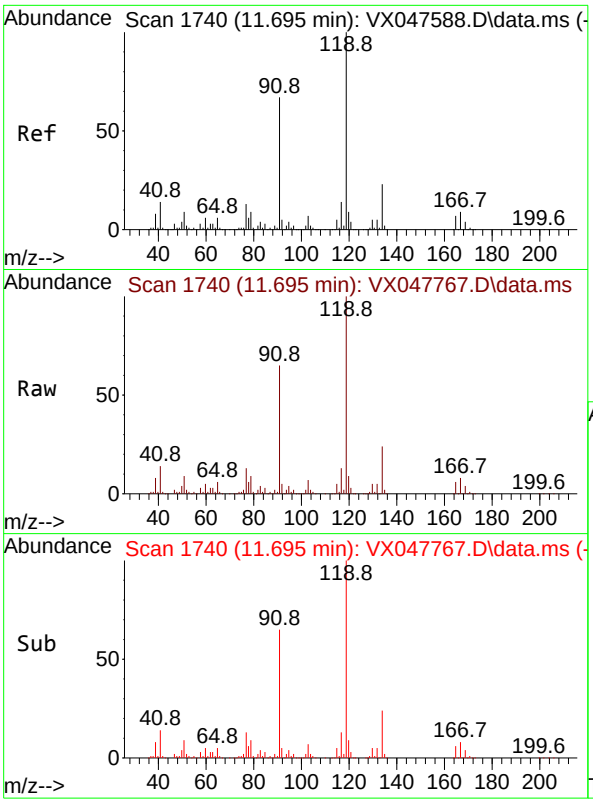


#82
4-Chlorotoluene
Concen: 48.683 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 357733

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6



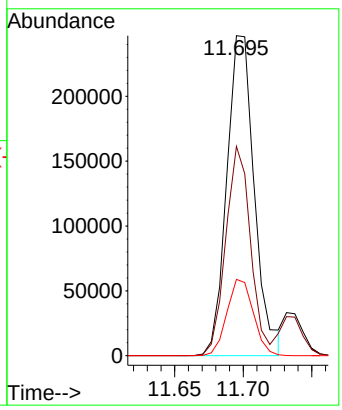


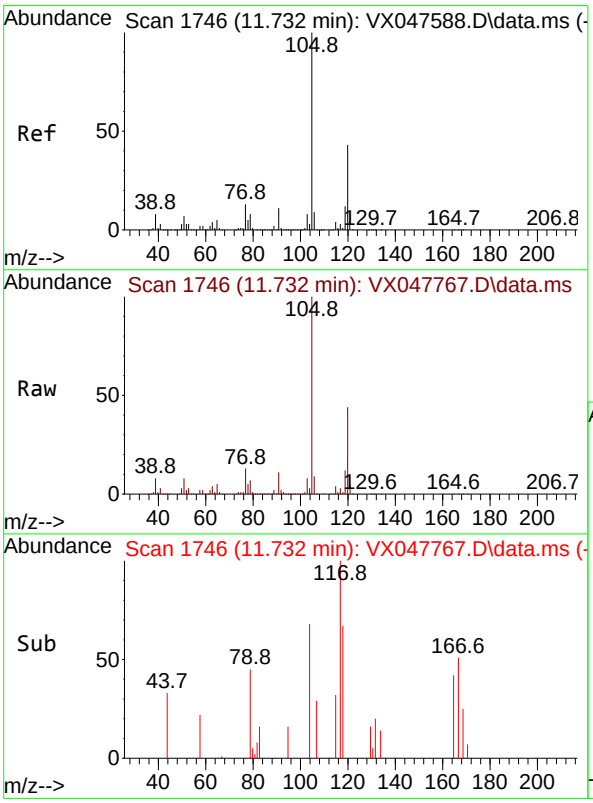
#83
tert-Butylbenzene
Concen: 47.879 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 346038

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.6	88.8
134	22.9	11.0	33.0

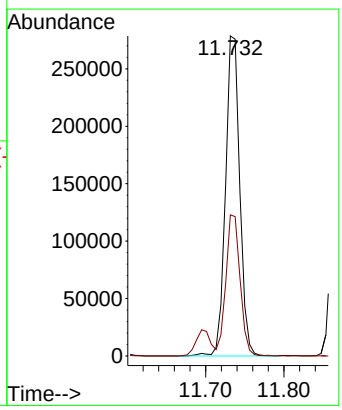


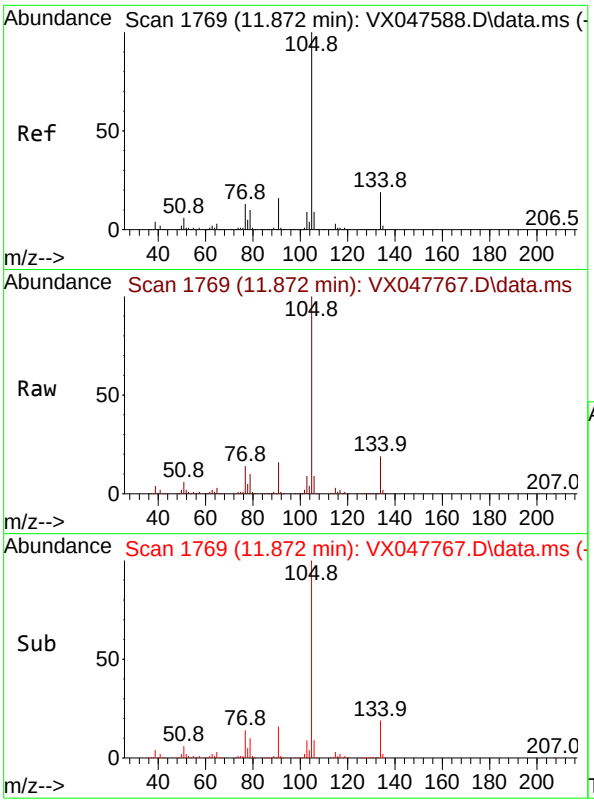


#84
1,2,4-Trimethylbenzene
Concen: 49.355 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 353276

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



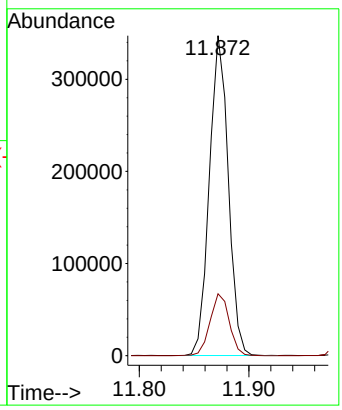


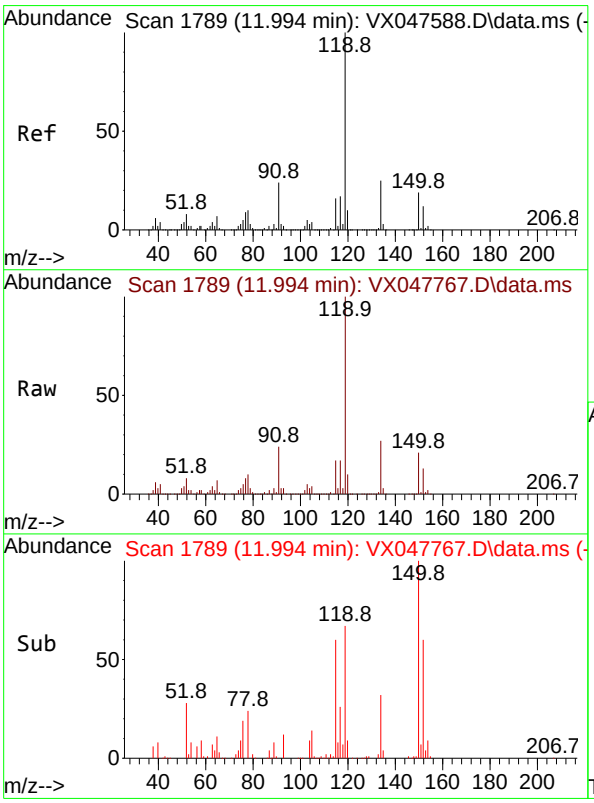
#85
sec-Butylbenzene
Concen: 48.459 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 415999

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

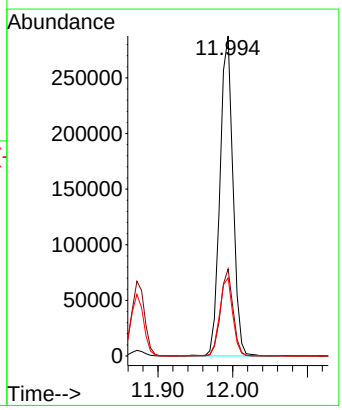


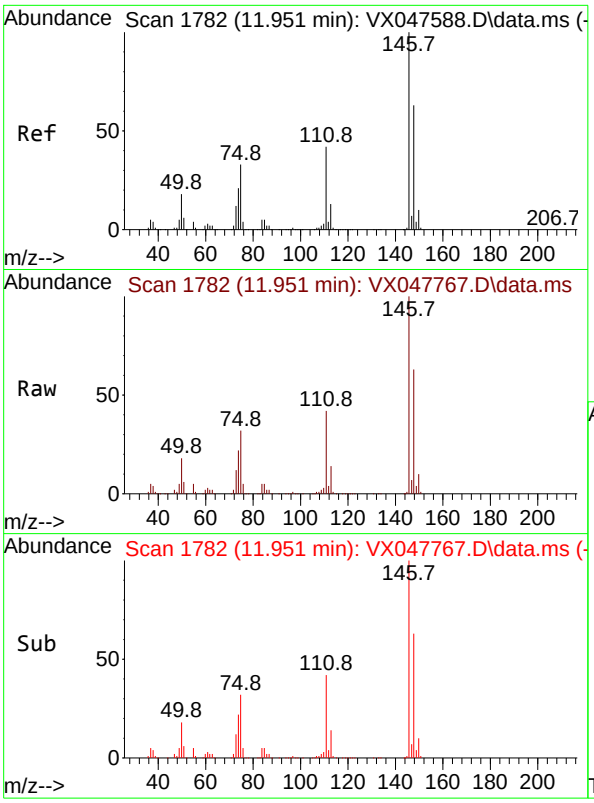


#86
p-Isopropyltoluene
Concen: 47.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:119 Resp: 348647

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	24.6	12.6	37.6



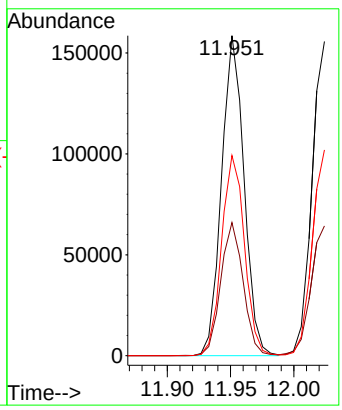


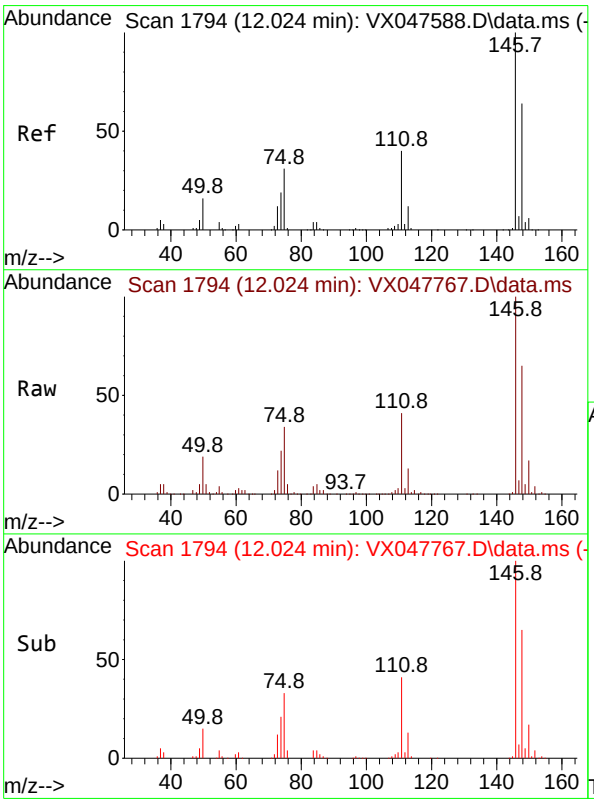
#87
1,3-Dichlorobenzene
Concen: 49.790 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 195732

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.5	64.5
148	63.8	32.0	96.0

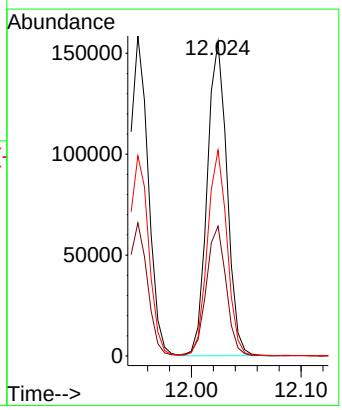


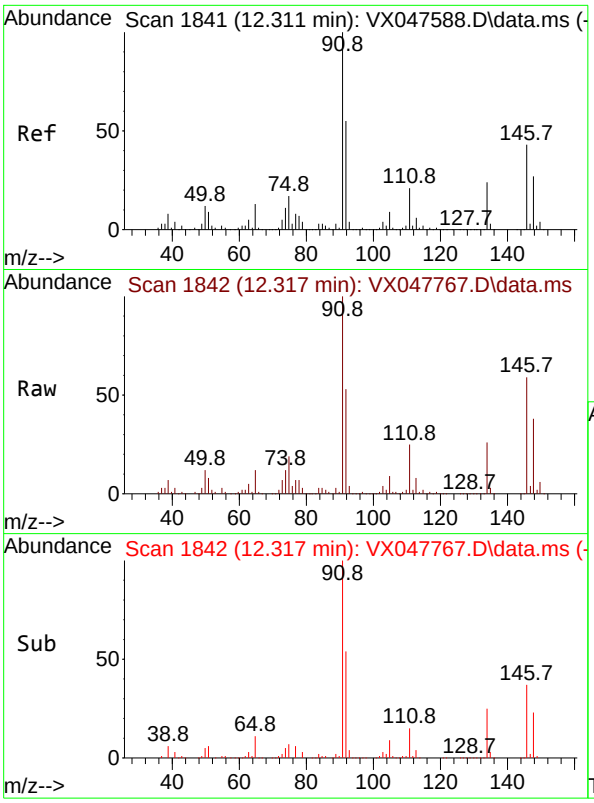


#88
1,4-Dichlorobenzene
Concen: 48.435 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 195422

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	64.8	31.7	95.1



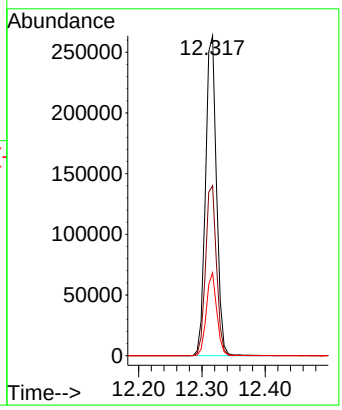


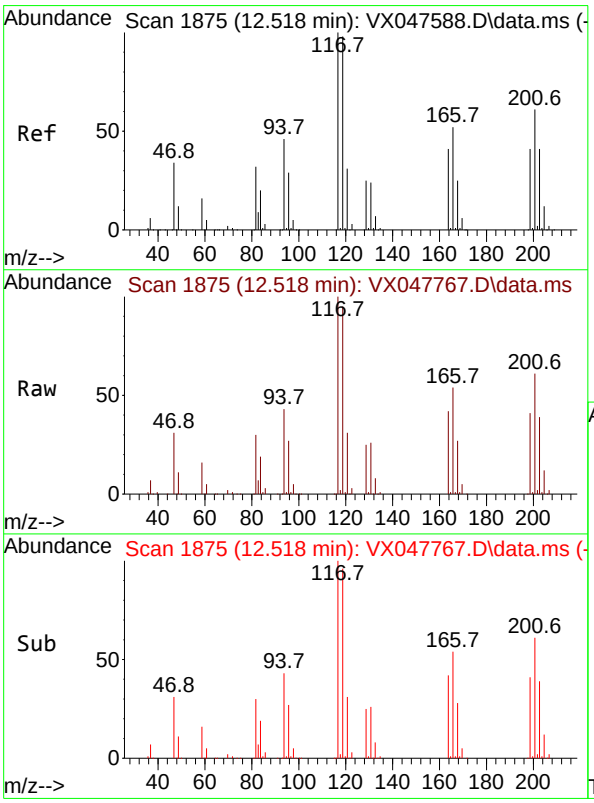
#89
n-Butylbenzene
Concen: 47.254 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 317773

Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8

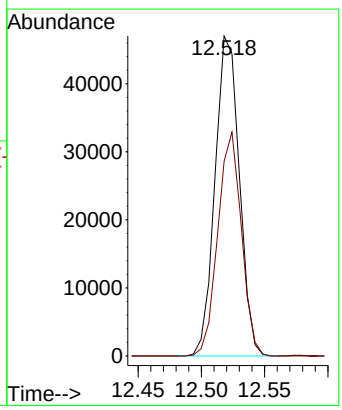


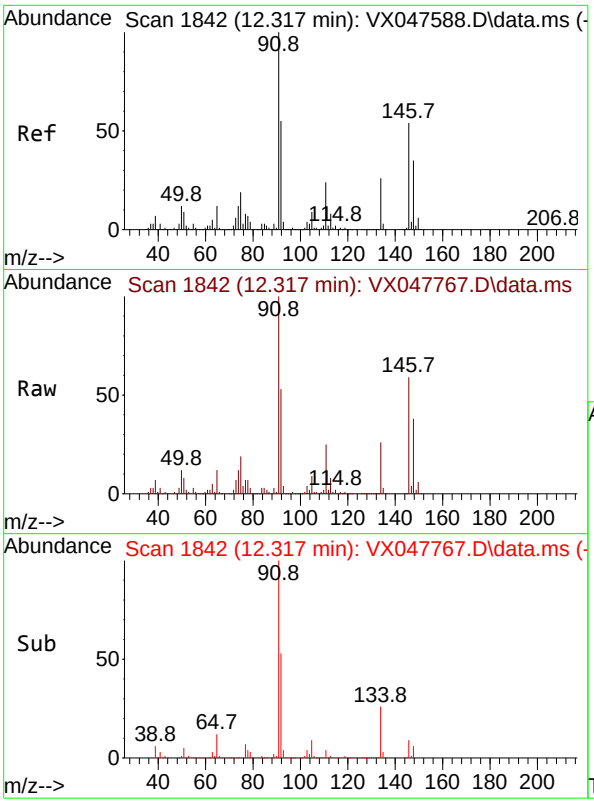


#90
Hexachloroethane
Concen: 49.203 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 62783

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5



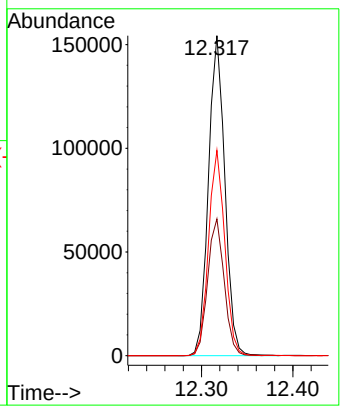


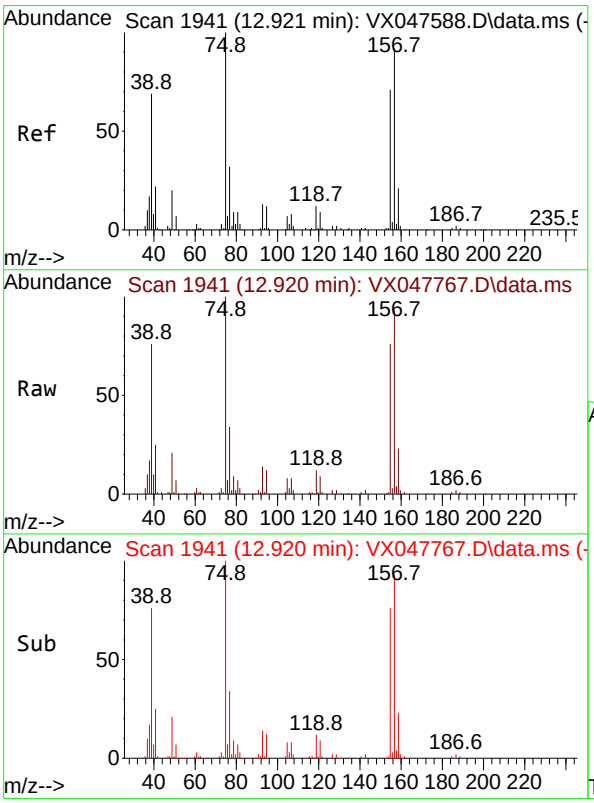
#91
1,2-Dichlorobenzene
Concen: 51.187 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 191705

Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.2	66.6
148	63.5	31.8	95.4

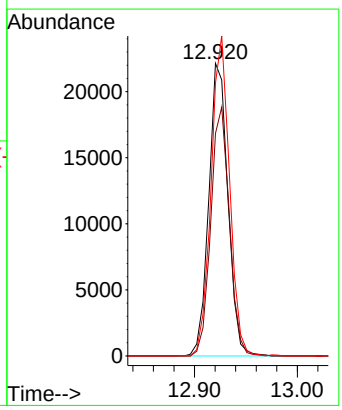


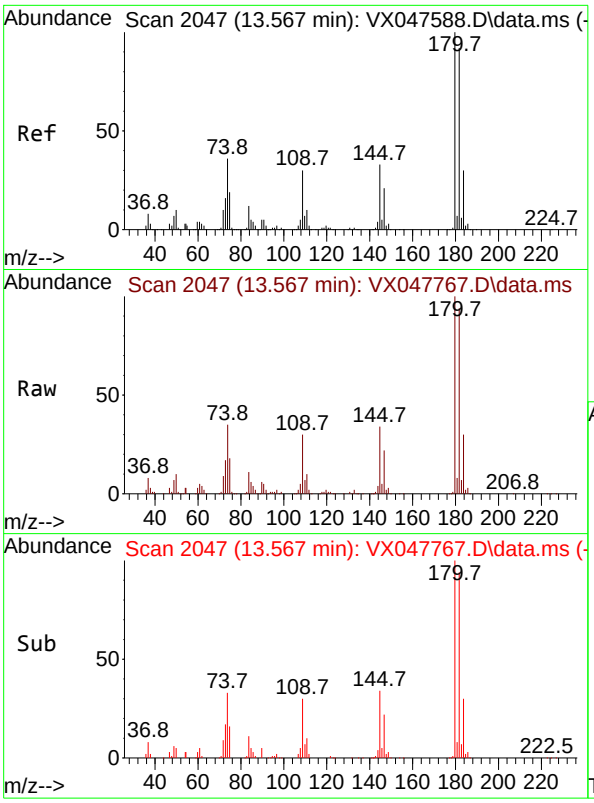


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.516 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 28696

Ion	Ratio	Lower	Upper
75	100		
155	82.5	37.7	113.1
157	105.1	49.8	149.4



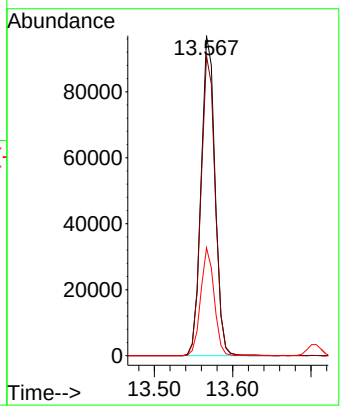


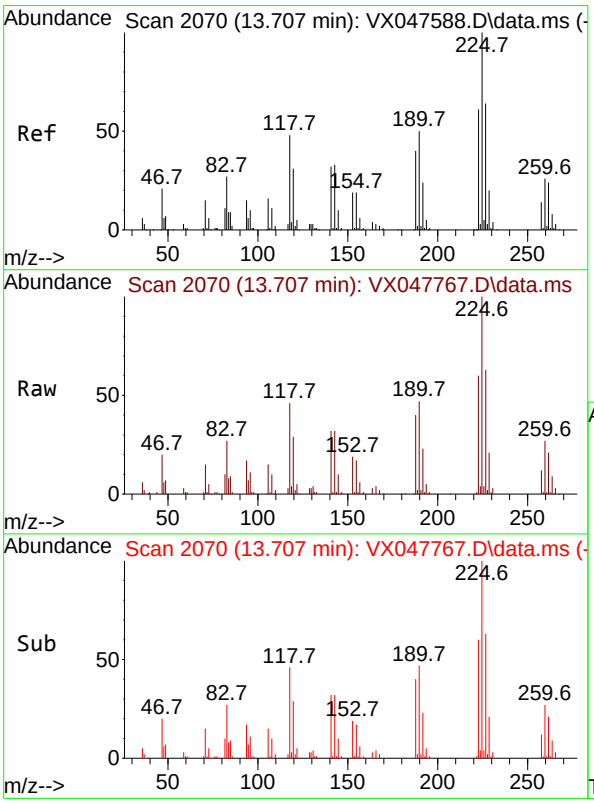
#93
1,2,4-Trichlorobenzene
Concen: 49.199 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 119753

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.6	139.8
145	32.5	16.4	49.1

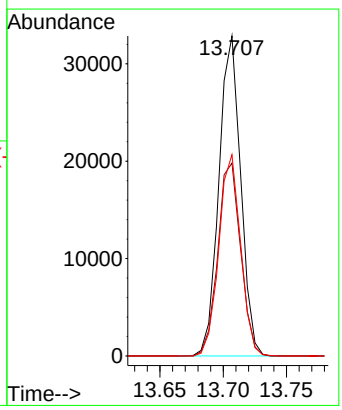


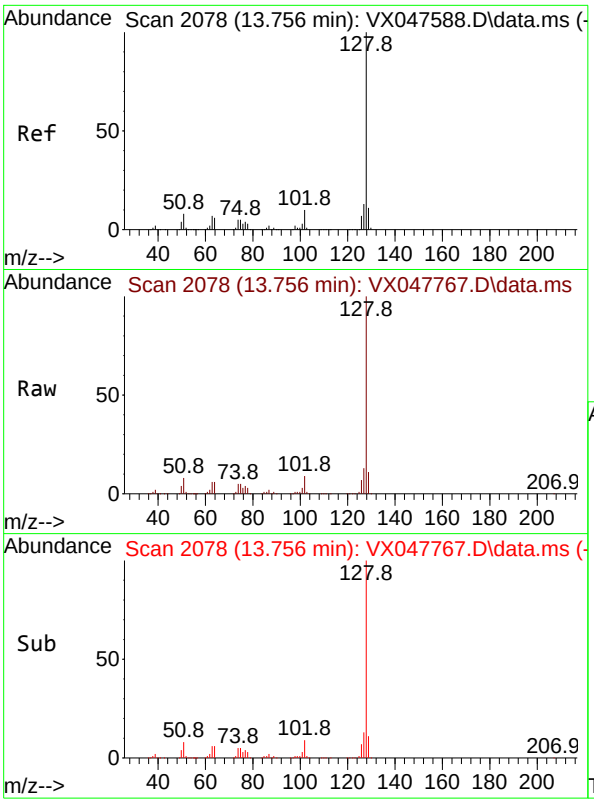


#94
Hexachlorobutadiene
Concen: 47.499 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:225 Resp: 39271

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.7	95.1
227	62.9	32.0	96.0



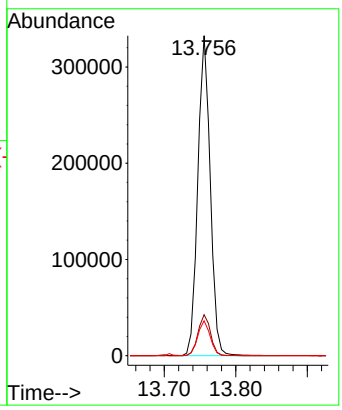


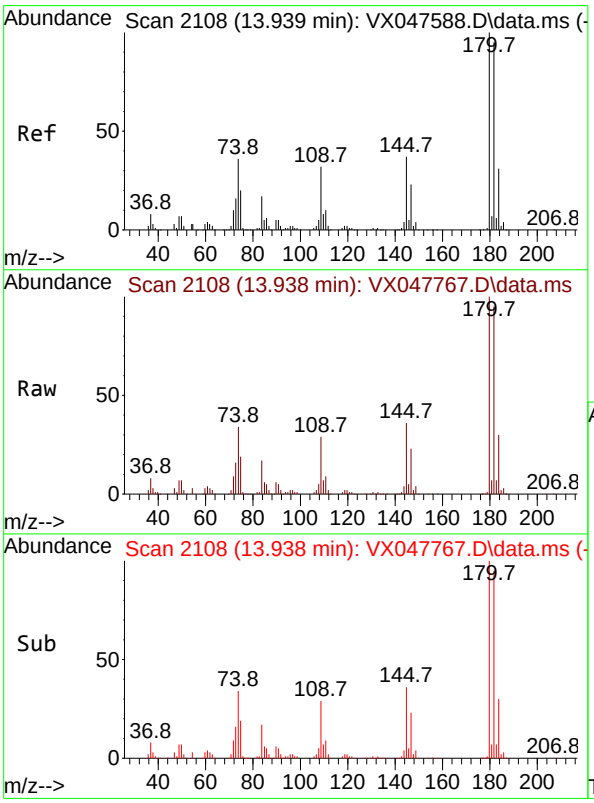
#95
Naphthalene
Concen: 54.002 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 400255

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2





#96
1,2,3-Trichlorobenzene
Concen: 52.369 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:180 Resp: 118573

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.6	142.8
145	34.2	17.9	53.7